

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: P638650

Luminaire Tested: **EPH-VN-06-E-930-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638650  
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-930-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (96) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32661.5 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

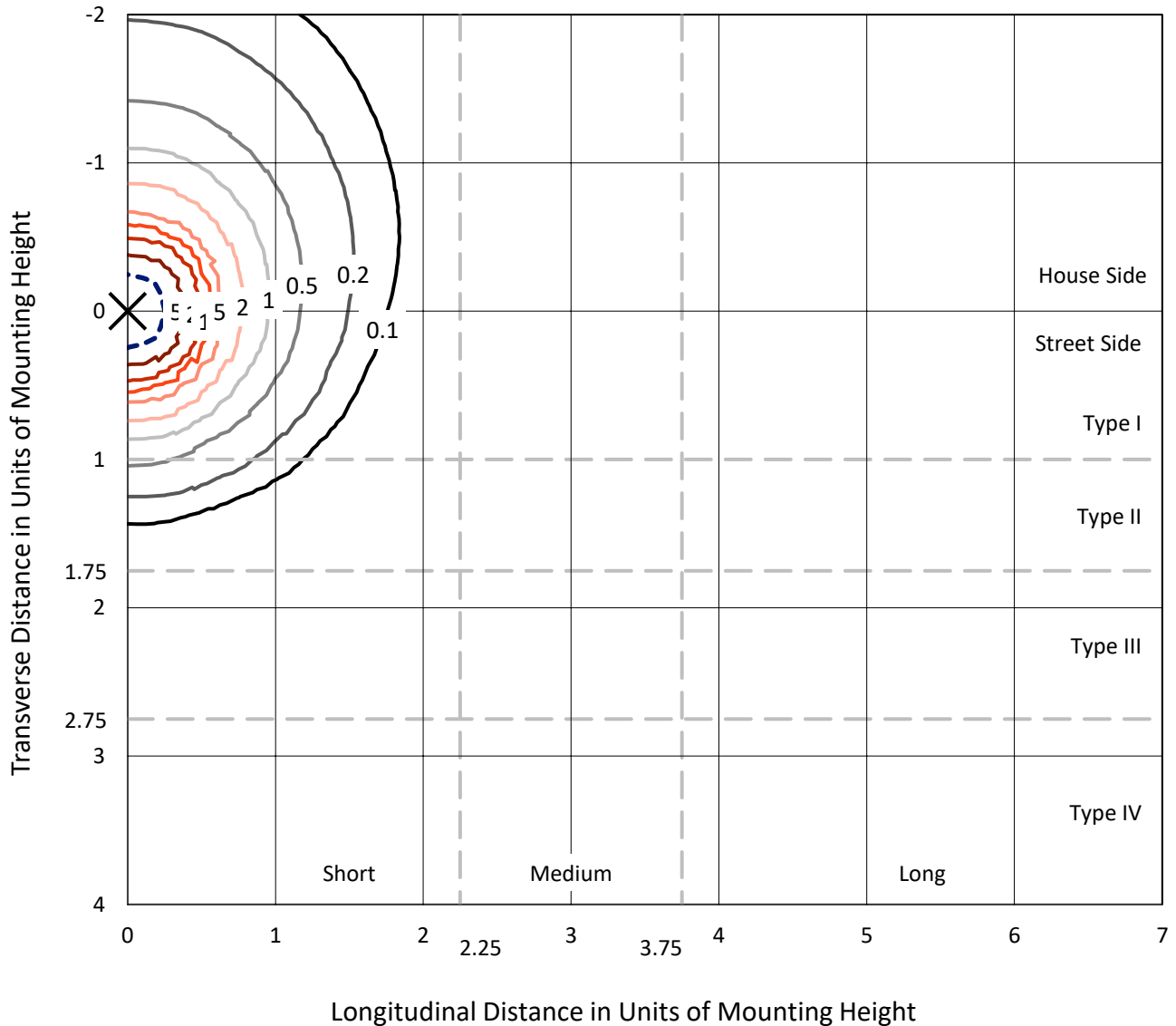
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

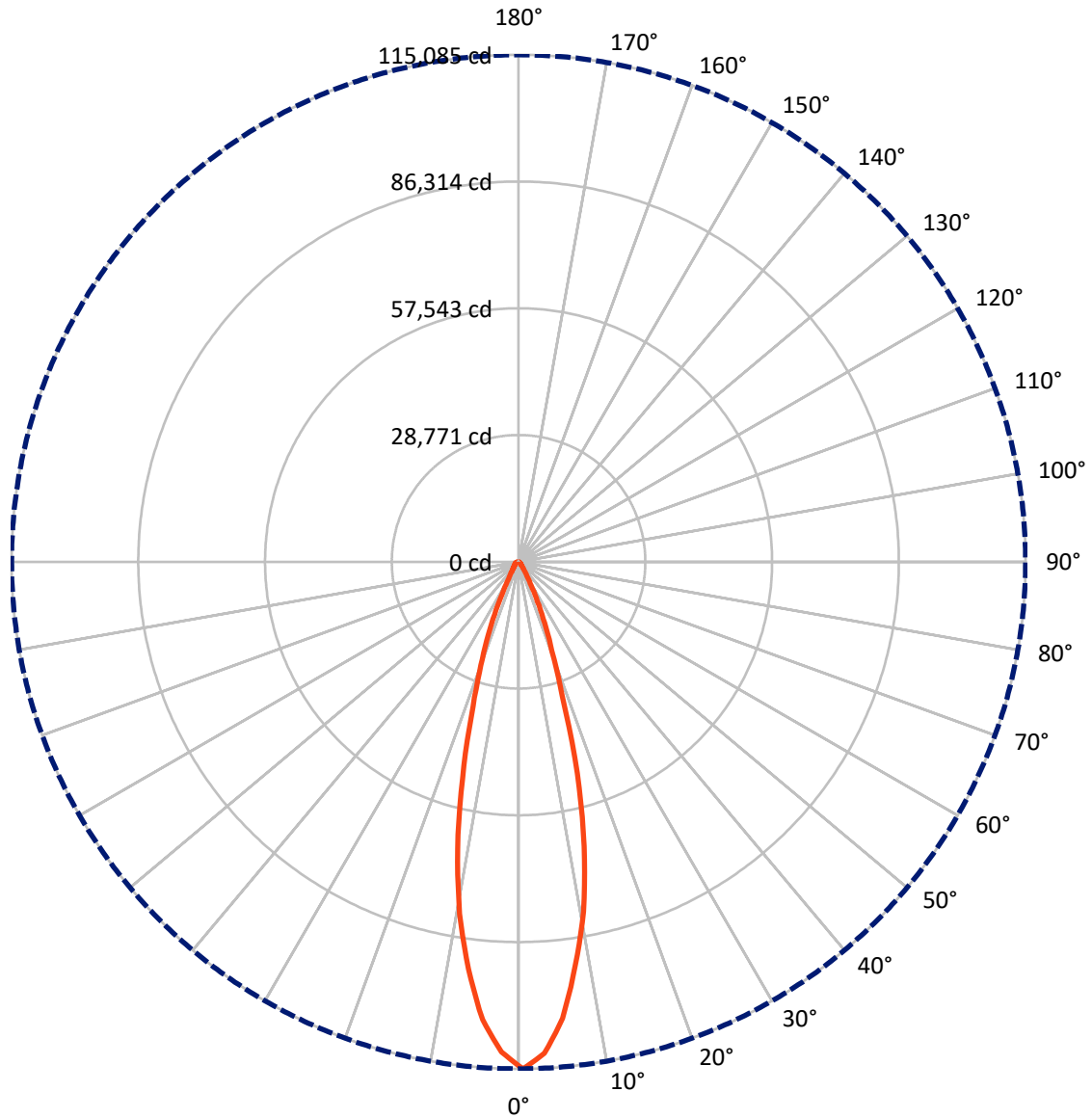
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 287.7 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	17221.4	0.0	17221.4
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	15440.2	0.0	15440.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	32661.5	0.0	32661.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9288.4	28.4
10°-20°	14067.2	43.1
20°-30°	5936.4	18.2
30°-40°	1548.3	4.7
40°-50°	783.1	2.4
50°-60°	511.9	1.6
60°-70°	306.7	0.9
70°-80°	161.3	0.5
80°-90°	58.3	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°	32661.5	100.0
0°-180°	32661.5	100.0

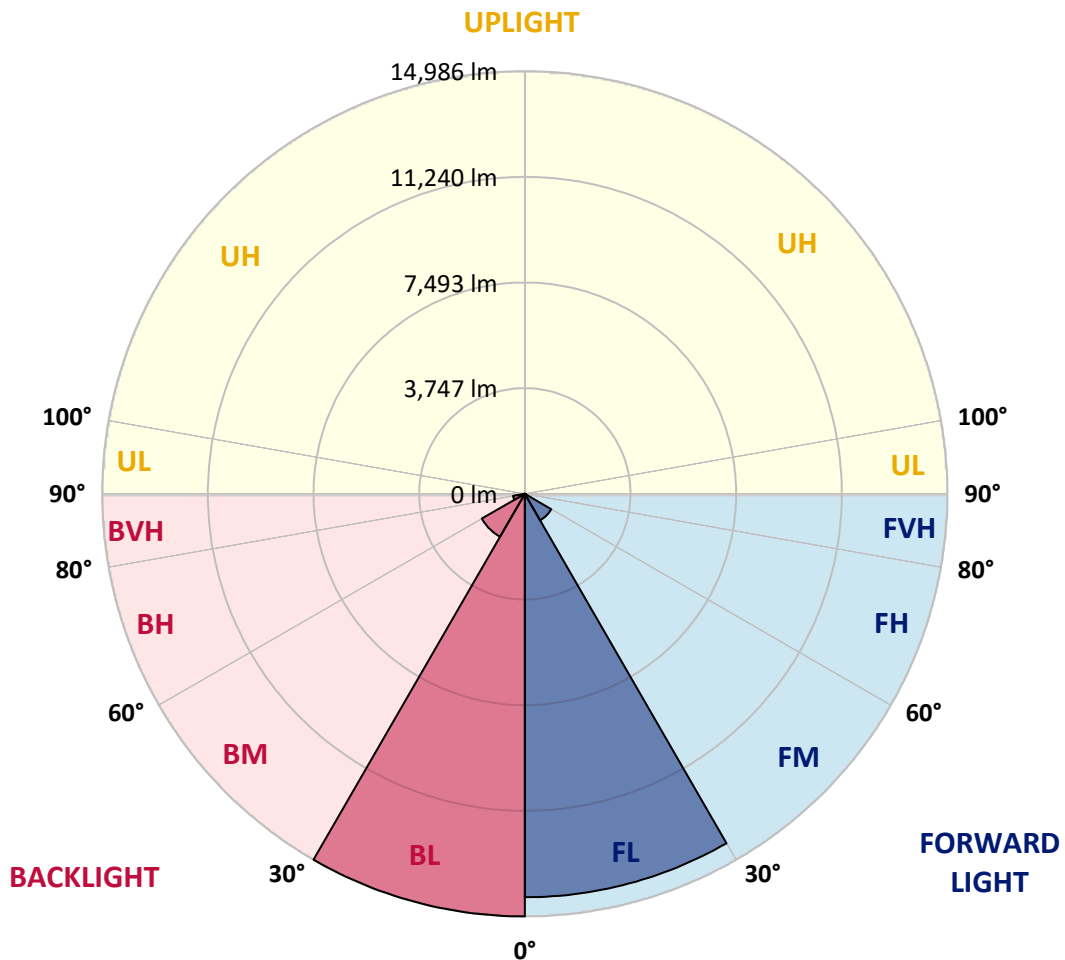


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14305.5	43.8			
FM (30°-60°)	1083.4	3.3			
FH (60°-80°)	44.1	0.1			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	14986.5	45.9	B5		
BM (30°-60°)	1759.8	5.4	B2/2500		
BH (60°-80°)	423.8	1.3	B1/500		G0/660
BVH (80°-90°)	51.2	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°	115085.2	115085.2	115085.2	115085.2	115085.2	115085.2	115085.2	115085.2	115085.2	115085.2
2.5°	111732.7	111795.0	111563.9	112062.8	111674.0	112715.7	112198.5	113005.4	112734.0	113185.2
5°	104103.4	104000.7	103934.6	104708.6	104484.8	105603.5	104888.3	104653.5	105379.8	105247.8
7.5°	92582.4	92853.8	92699.7	92901.5	93015.2	94291.6	94695.1	94379.7	94390.7	94574.1
10°	80771.6	80371.8	79803.3	80181.1	80980.7	81538.2	81314.5	81776.6	81673.9	82110.4
12.5°	66239.3	66554.7	66235.6	65898.1	67295.6	67141.6	67530.4	67783.5	67148.9	68561.1
15°	49894.9	50060.0	50448.8	50423.1	51497.8	51714.2	51662.9	51930.6	51435.5	51670.2
17.5°	32054.1	32611.6	33657.0	35424.9	37412.9	37644.0	37585.3	37365.3	37126.8	36862.8
20°	21530.8	21472.1	21849.9	22367.1	26482.5	27571.9	27538.9	26849.3	25851.6	25660.9
22.5°	15082.6	15192.6	15141.2	15654.8	16505.7	19509.8	19139.3	18438.7	18112.3	17899.5
25°	9921.8	9881.4	10138.2	10292.2	11022.1	11388.9	12687.4	12427.0	11924.5	11979.5
27.5°	6048.4	6099.8	6195.1	6327.2	6844.4	6727.0	7467.9	7567.0	7405.6	7233.2
30°	3712.0	3748.6	3825.7	3921.0	4100.8	3972.4	4177.8	4533.6	4474.9	4353.8
32.5°	2519.9	2523.5	2578.6	2615.2	2593.2	2472.2	2538.2	2875.7	2883.0	2872.0
35°	1812.0	1812.0	1863.3	1892.7	1830.3	1731.3	1742.3	1951.3	2043.0	2061.4
37.5°	1250.8	1254.4	1342.5	1430.5	1360.8	1335.1	1291.1	1430.5	1577.2	1599.2
40°	950.0	946.3	990.3	1056.4	1063.7	1016.0	1030.7	1118.7	1269.1	1287.4
42.5°	770.3	773.9	795.9	788.6	792.3	854.6	876.6	917.0	1056.4	1089.4
45°	649.2	652.9	663.9	627.2	612.5	707.9	737.3	759.3	876.6	917.0
47.5°	535.5	542.9	553.9	513.5	506.2	568.5	619.9	641.9	744.6	788.6
50°	385.1	392.5	432.8	410.8	432.8	447.5	517.2	550.2	619.9	678.6
52.5°	278.8	286.1	297.1	300.8	355.8	363.1	414.5	465.8	498.8	564.9
55°	220.1	227.4	220.1	212.7	260.4	300.8	319.1	374.1	399.8	476.8
57.5°	124.7	132.0	143.0	165.1	172.4	231.1	249.4	297.1	319.1	392.5
60°	22.0	25.7	40.3	99.0	121.0	146.7	187.1	227.4	256.8	308.1
62.5°	3.7	3.7	7.3	22.0	69.7	102.7	135.7	161.4	187.1	234.7
65°	0.0	0.0	3.7	7.3	18.3	58.7	73.4	95.4	128.4	168.7
67.5°	0.0	0.0	3.7	7.3	11.0	22.0	33.0	58.7	73.4	113.7
70°	0.0	0.0	3.7	7.3	11.0	14.7	18.3	25.7	44.0	69.7
72.5°	0.0	0.0	3.7	7.3	11.0	14.7	18.3	22.0	22.0	44.0
75°	0.0	0.0	3.7	7.3	11.0	18.3	22.0	22.0	18.3	18.3
77.5°	0.0	0.0	3.7	7.3	14.7	22.0	25.7	22.0	14.7	14.7
80°	0.0	0.0	7.3	11.0	18.3	25.7	33.0	25.7	14.7	7.3
82.5°	0.0	0.0	7.3	14.7	18.3	29.3	40.3	33.0	14.7	7.3
85°	0.0	0.0	3.7	11.0	22.0	29.3	40.3	29.3	14.7	3.7
87.5°	0.0	0.0	3.7	3.7	7.3	11.0	22.0	18.3	7.3	3.7
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°
<b>115085.2</b>	0°	<b>115085.2</b>	<b>115085.2</b>	<b>115085.2</b>	<b>115085.2</b>	<b>115085.2</b>	<b>115085.2</b>	<b>115085.2</b>	<b>115085.2</b>	<b>115085.2</b>
112330.5	2.5°	112976.1	113563.0	113684.0	113522.6	113757.4	113335.6	113012.8	112176.5	111674.0
105207.4	5°	105886.0	105797.9	106410.5	106612.2	106586.6	106263.8	105812.6	105306.4	104814.9
94218.3	7.5°	94805.1	94918.8	95476.4	95832.2	95652.4	95249.0	94937.2	94555.7	94225.6
82268.1	10°	83020.1	82238.8	82932.0	82932.0	83412.5	82271.8	82378.2	81417.2	81461.2
68535.4	12.5°	68770.1	69052.6	69166.3	69492.7	68931.5	68326.3	67585.4	67438.7	66980.2
51222.7	15°	51960.0	52766.9	52073.7	53258.4	52686.2	52055.3	51941.6	50804.6	51164.0
37152.5	17.5°	36969.1	37860.4	38139.2	38817.8	38296.9	37922.8	37449.6	37104.8	37079.2
26009.3	20°	26214.7	27109.7	27315.1	28129.4	28070.7	27953.3	27553.5	27117.1	26643.9
17705.1	22.5°	17972.9	18702.8	19385.0	20481.8	20463.4	20118.6	20078.3	19462.1	19473.1
11961.1	25°	12085.8	12617.7	12779.1	13901.5	14026.2	13989.5	13780.4	13208.2	13424.6
7306.5	27.5°	7313.9	7779.7	8326.2	8722.4	9096.5	9037.8	8828.7	8509.6	8370.2
4390.5	30°	4507.9	4717.0	4918.7	5395.5	5619.3	5736.7	5637.6	5340.5	5362.5
2890.3	32.5°	2952.7	3128.7	3275.5	3576.2	3693.6	3910.0	3869.7	3807.3	3734.0
2079.7	35°	2153.1	2281.5	2380.5	2519.9	2670.3	2853.7	2883.0	2857.3	2828.0
1606.6	37.5°	1643.2	1775.3	1889.0	1947.7	2065.0	2208.1	2288.8	2285.1	2263.1
1309.5	40°	1335.1	1434.2	1536.9	1613.9	1694.6	1801.0	1900.0	1911.0	1911.0
1100.4	42.5°	1115.1	1199.4	1302.1	1382.8	1441.5	1540.5	1643.2	1650.6	1643.2
931.7	45°	953.7	1027.0	1126.1	1221.4	1269.1	1342.5	1441.5	1463.5	1448.8
799.6	47.5°	829.0	895.0	979.3	1082.0	1133.4	1199.4	1291.1	1316.8	1313.1
689.6	50°	711.6	788.6	873.0	957.3	1023.4	1085.7	1173.7	1203.1	1192.1
586.9	52.5°	627.2	696.9	770.3	862.0	939.0	994.0	1063.7	1115.1	1100.4
495.2	55°	524.5	608.9	685.9	762.9	858.3	917.0	983.0	1045.4	1030.7
418.1	57.5°	454.8	524.5	612.5	682.2	777.6	847.3	913.3	979.3	975.7
341.1	60°	381.5	454.8	539.2	612.5	700.6	777.6	843.6	917.0	924.3
256.8	62.5°	300.8	388.8	462.2	546.5	634.6	718.9	777.6	851.0	862.0
194.4	65°	227.4	319.1	399.8	480.5	568.5	660.2	711.6	773.9	784.9
143.0	67.5°	168.7	245.8	341.1	414.5	506.2	594.2	641.9	693.2	711.6
88.0	70°	128.4	187.1	286.1	355.8	451.2	520.8	572.2	616.2	630.9
58.7	72.5°	80.7	146.7	231.1	304.4	388.8	451.2	487.8	513.5	535.5
33.0	75°	55.0	113.7	187.1	260.4	322.8	370.5	403.5	425.5	443.8
14.7	77.5°	33.0	88.0	154.1	216.4	256.8	293.4	326.4	341.1	352.1
11.0	80°	18.3	66.0	128.4	176.1	201.7	227.4	253.1	271.4	278.8
7.3	82.5°	11.0	51.4	102.7	135.7	146.7	172.4	198.1	209.1	209.1
3.7	85°	7.3	36.7	69.7	99.0	106.4	124.7	132.0	139.4	146.7
3.7	87.5°	7.3	22.0	44.0	55.0	58.7	66.0	69.7	77.0	84.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
115085.2  
111303.5  
104264.7  
93106.9  
81032.0  
66562.0  
50804.6  
36396.9  
26438.5  
19260.3  
13083.5  
8249.2  
5267.2  
3708.3  
2817.0  
2252.1  
1889.0  
1635.9  
1448.8  
1305.8  
1184.7  
1096.7  
1038.0  
979.3  
928.0  
869.3  
795.9  
718.9  
638.2  
531.9  
440.2  
348.5  
271.4  
205.4  
143.0  
80.7  
0.0

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