

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: P638843

Luminaire Tested: **EPH-VN-07-E-735-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638843
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-735-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41036.8 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

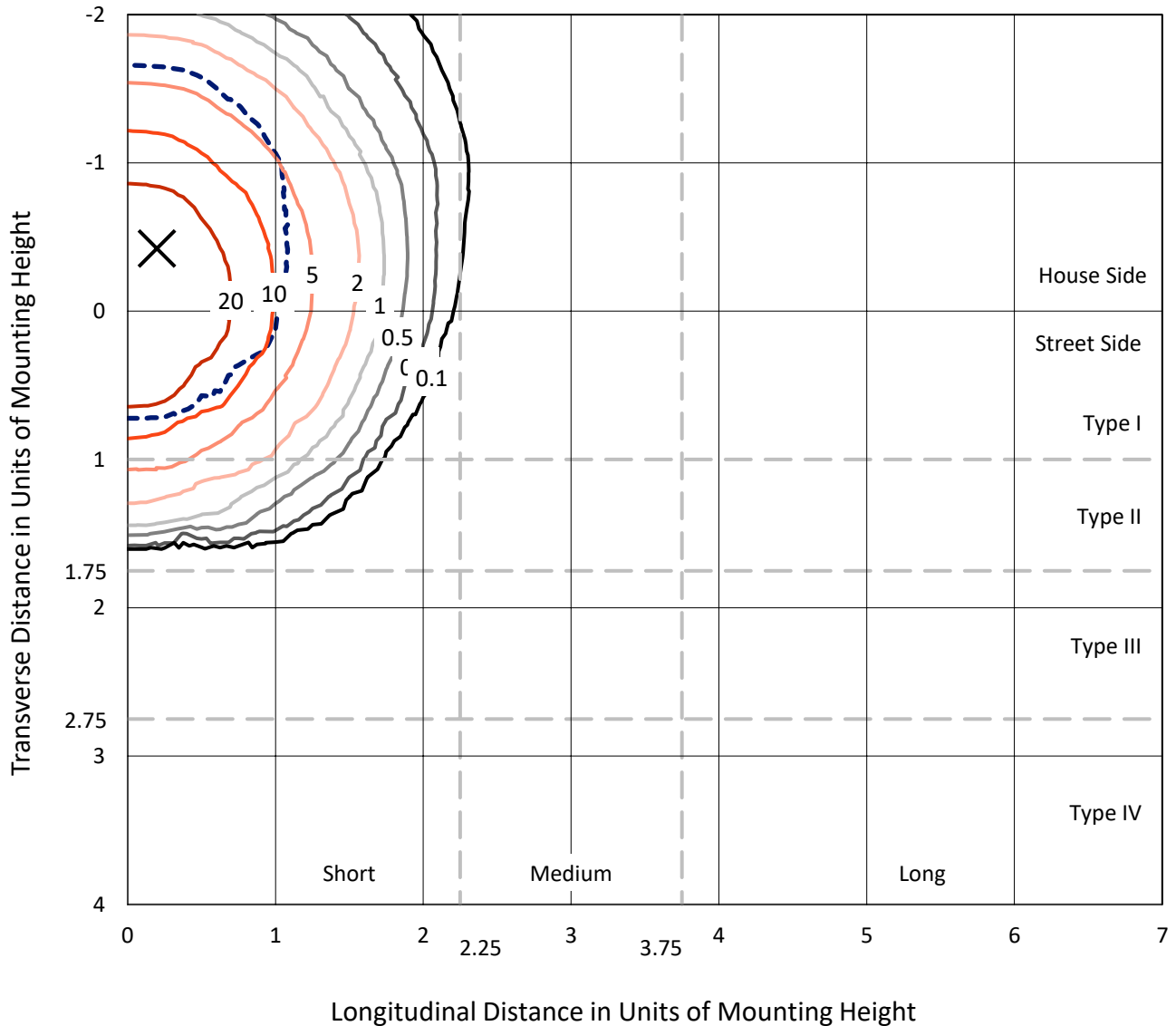
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

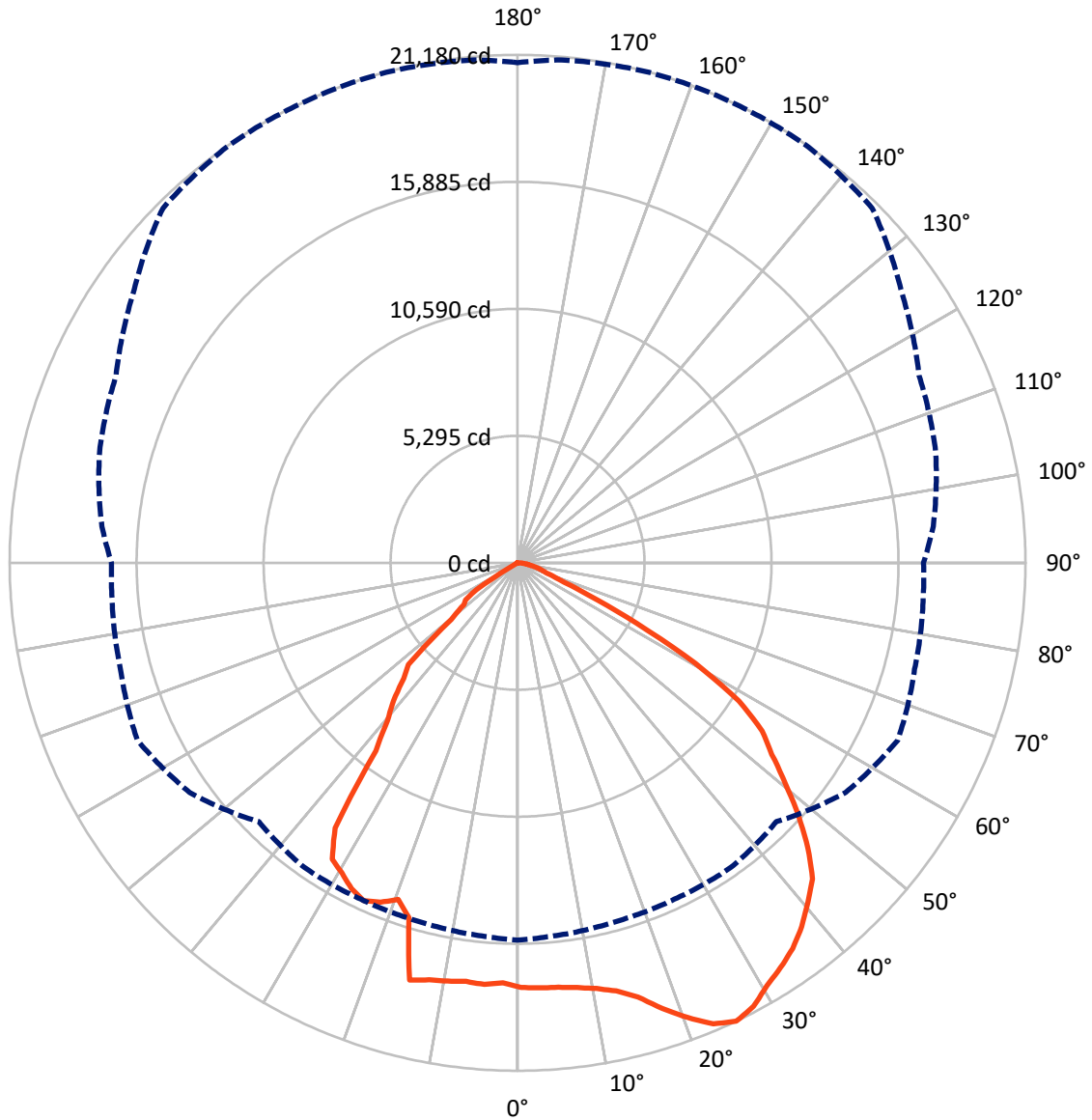
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25406.0	0.0	25406.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	15630.8	0.0	15630.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	41036.8	0.0	41036.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1698.7	4.1
10°-20°	5186.9	12.6
20°-30°	8200.3	20.0
30°-40°	9262.9	22.6
40°-50°	8674.9	21.1
50°-60°	5980.7	14.6
60°-70°	1606.8	3.9
70°-80°	334.9	0.8
80°-90°	90.6	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°	41036.8	100.0
0°-180°	41036.8	100.0

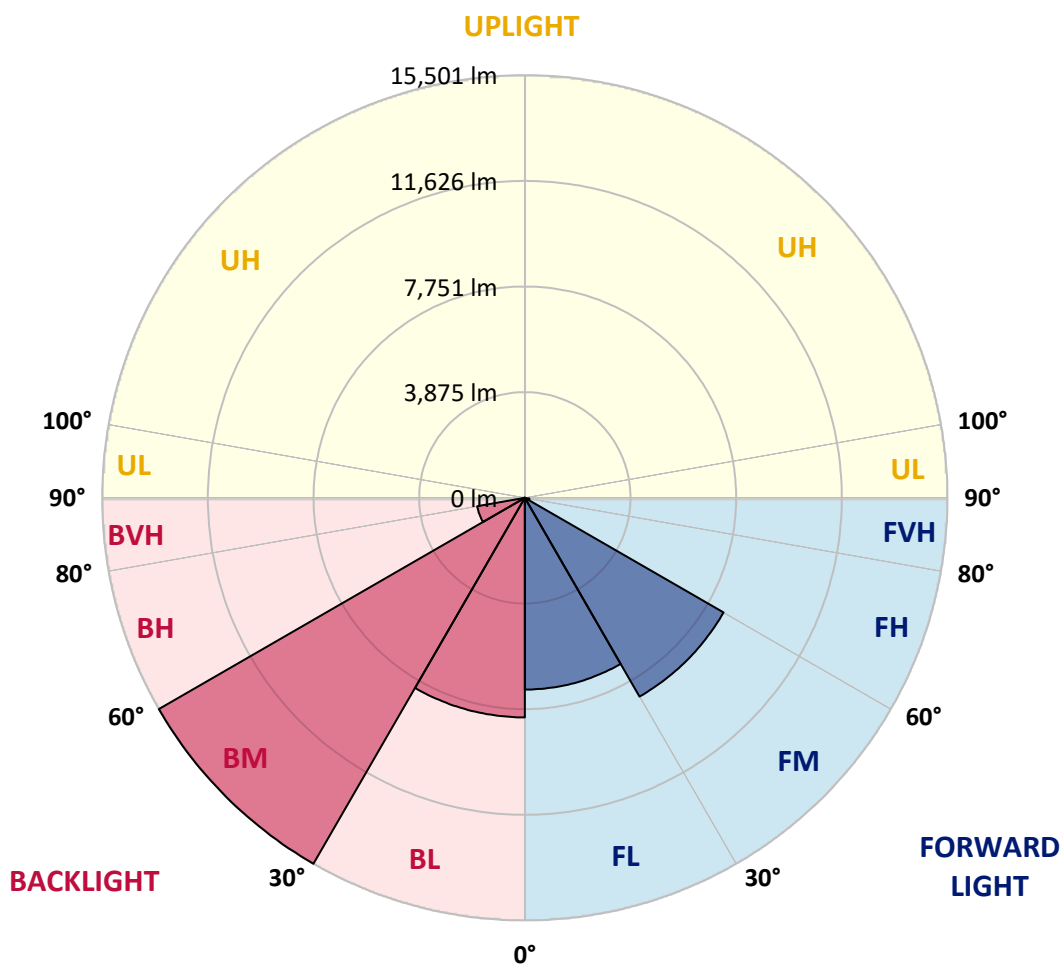


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7032.4	17.1			
FM (30°-60°)	8417.6	20.5			
FH (60°-80°)	168.7	0.4			G0/660
FVH (80°-90°)	12.2	0.0			G1/100
BL (0°-30°)	8053.5	19.6	B5		
BM (30°-60°)	15501.0	37.8	B5		
BH (60°-80°)	1773.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	78.4	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-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6
2.5°	17785.0	17670.4	17561.9	17525.7	17676.5	17839.3	17736.8	17742.8	17706.6	17773.0
5°	17917.7	17760.9	17688.5	17634.3	17658.4	17827.2	17682.5	17736.8	17676.5	17754.9
7.5°	17869.5	17760.9	17688.5	17586.0	17664.4	17863.4	17724.7	17730.8	17700.6	17773.0
10°	17839.3	17760.9	17670.4	17682.5	17773.0	17941.8	17833.3	17893.6	17851.4	17893.6
12.5°	17911.7	17827.2	17779.0	17779.0	17857.4	18050.4	17996.1	18050.4	18032.3	18068.5
15°	17230.2	17308.6	17766.9	17972.0	18128.8	18321.8	18297.7	18351.9	18364.0	18418.3
17.5°	14534.4	14456.0	14419.8	15475.2	18279.6	18876.6	18858.5	18852.5	18792.2	18750.0
20°	14890.2	14860.1	14817.8	14896.2	15209.9	19166.1	19286.7	18544.9	18327.8	18309.7
22.5°	15457.1	15408.9	15252.1	15258.1	15354.6	16663.3	18689.7	18014.2	17941.8	17899.6
25°	15734.5	15638.0	15511.4	15475.2	15505.4	15264.1	16693.4	17495.6	17139.7	16976.9
27.5°	15246.0	15252.1	15149.5	15246.0	15131.5	14045.9	13436.8	16482.4	16470.3	16397.9
30°	14878.2	14860.1	14739.4	14860.1	14070.0	12857.8	12598.5	15372.7	15246.0	15149.5
32.5°	13750.4	13762.4	14112.2	14582.6	13286.0	12327.1	11543.1	13732.3	14932.4	14878.2
35°	9836.3	9860.5	11102.8	13424.7	12097.9	11271.7	11211.4	11868.8	14437.9	14462.0
37.5°	9468.5	9468.5	9438.3	9818.3	11163.1	10843.5	10964.1	10897.8	13225.7	13286.0
40°	9203.1	9148.8	9106.6	8509.6	7761.7	10542.0	10626.4	10324.8	12502.0	12514.1
42.5°	8883.5	8823.2	8835.2	7731.6	6947.6	9794.1	9558.9	9154.9	11295.8	11307.9
45°	8298.5	8401.0	8473.4	6766.6	6706.3	6995.8	8817.1	8563.8	10481.7	10704.8
47.5°	4221.6	4312.1	6615.9	6223.9	6362.6	6217.8	7448.1	7454.2	8720.6	9462.4
50°	3829.6	3805.5	3811.5	3630.6	5874.1	5029.7	5385.6	6833.0	6983.7	8045.2
52.5°	3570.3	3564.2	3196.4	2840.5	3690.9	4426.7	3908.0	4945.3	5192.6	6814.9
55°	2641.5	2834.5	2520.9	2671.7	2309.8	3546.2	3528.1	4462.8	4547.3	5464.0
57.5°	24.1	30.2	72.4	2032.4	1598.2	1773.1	2436.5	3045.6	3196.4	4257.8
60°	6.0	12.1	30.2	60.3	1037.3	1091.6	1628.3	1761.0	1984.2	2539.0
62.5°	0.0	0.0	12.1	30.2	54.3	446.3	518.7	566.9	874.5	1296.6
65°	0.0	0.0	6.0	18.1	30.2	72.4	126.6	265.4	379.9	470.4
67.5°	0.0	0.0	6.0	12.1	24.1	36.2	72.4	102.5	162.8	277.4
70°	0.0	0.0	6.0	12.1	18.1	30.2	48.2	72.4	96.5	138.7
72.5°	0.0	0.0	6.0	12.1	12.1	36.2	36.2	54.3	72.4	90.5
75°	0.0	0.0	6.0	6.0	12.1	24.1	36.2	42.2	48.2	72.4
77.5°	0.0	0.0	6.0	12.1	18.1	24.1	30.2	48.2	42.2	42.2
80°	0.0	0.0	6.0	18.1	18.1	30.2	36.2	48.2	30.2	30.2
82.5°	0.0	0.0	6.0	24.1	18.1	60.3	60.3	66.3	24.1	24.1
85°	0.0	0.0	18.1	12.1	36.2	60.3	54.3	36.2	30.2	18.1
87.5°	0.0	0.0	6.0	6.0	12.1	18.1	42.2	36.2	12.1	12.1
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°
17706.6	0°	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6	17706.6
17598.1	2.5°	17839.3	17760.9	17923.7	17905.7	17827.2	17791.1	17748.8	17712.7	17447.3
17610.1	5°	17845.3	17724.7	17923.7	17887.6	17875.5	17815.2	17779.0	17833.3	17592.0
17658.4	7.5°	17845.3	17724.7	17941.8	17953.9	17935.8	17887.6	17881.5	17917.7	17718.7
17742.8	10°	17966.0	17917.7	18098.6	18116.7	18092.6	18080.5	18050.4	18026.3	17815.2
18032.3	12.5°	18219.3	18122.8	18327.8	18382.1	18364.0	18394.2	18321.8	18358.0	18140.9
18327.8	15°	18526.8	18532.9	18689.7	18810.3	18798.2	18894.7	18786.2	18882.7	18725.8
18665.5	17.5°	18997.2	19063.6	19286.7	19467.6	19534.0	19606.4	19534.0	19564.1	19341.0
18291.6	20°	18502.7	18750.0	19823.5	20155.2	20293.9	20360.2	20239.6	20275.8	20052.6
17833.3	22.5°	18056.4	18376.1	19328.9	20366.2	20794.4	20927.1	20884.9	20878.9	20794.4
16928.7	25°	17399.1	18044.4	18472.6	19570.2	20915.1	21156.3	21180.4	21174.4	21047.7
16373.8	27.5°	16590.9	16735.7	17845.3	18514.8	20070.7	20987.4	20951.2	20776.3	20607.5
15221.9	30°	15559.6	16217.0	16717.6	17785.0	18979.1	20468.8	20468.8	20336.1	20161.2
14811.8	32.5°	15035.0	15885.3	16349.7	16735.7	17754.9	19889.8	20131.0	19992.3	19853.6
14492.2	35°	14757.5	14884.2	15969.7	16319.5	17181.9	18774.1	19751.1	19612.4	19509.9
13641.8	37.5°	14148.4	14443.9	14950.5	15885.3	16150.7	17863.4	19244.5	19172.1	19051.5
12538.2	40°	12791.5	13581.5	14359.5	15246.0	15523.5	16693.4	18629.4	18659.5	18496.7
11362.2	42.5°	11989.4	12526.1	13744.4	14341.4	15089.2	15939.6	18032.3	18080.5	17966.0
10765.1	45°	11048.6	11645.6	12502.0	13587.5	14606.8	14902.3	16976.9	17483.5	17387.0
9577.0	47.5°	10186.1	10668.6	11718.0	12815.6	13943.4	13901.2	15764.7	16717.6	16584.9
8666.4	50°	8961.9	9806.2	10300.7	11307.9	12990.5	13105.1	14474.1	15819.0	15710.4
7363.7	52.5°	7556.7	8618.1	9565.0	10487.7	12025.6	12296.9	13273.9	14902.3	14829.9
5626.8	55°	6603.8	7375.8	8443.2	9185.0	10855.6	11579.3	12375.3	14027.8	13991.6
4625.7	57.5°	4698.0	6187.7	7068.2	8105.5	8986.0	10294.7	10885.7	12248.7	11911.0
2563.1	60°	3184.3	3883.9	4957.4	6073.1	6664.1	7972.8	8521.6	9613.2	9522.7
1531.8	62.5°	1682.6	2327.9	3093.8	3654.7	4082.9	5355.4	5584.6	6760.6	6730.5
615.1	65°	741.8	983.0	1676.6	1966.1	2406.3	2997.3	3196.4	3618.5	3516.0
301.5	67.5°	386.0	585.0	946.8	1164.0	1465.5	1688.6	1851.5	1984.2	2068.6
199.0	70°	235.2	428.2	585.0	808.1	1007.2	1188.1	1314.7	1495.7	1604.2
102.5	72.5°	174.9	271.4	404.1	621.2	729.7	940.8	1067.5	1200.1	1296.6
84.4	75°	96.5	180.9	325.7	488.5	585.0	765.9	880.5	971.0	1001.1
48.2	77.5°	60.3	138.7	271.4	379.9	458.3	621.2	591.0	675.5	747.8
36.2	80°	42.2	102.5	211.1	313.6	319.6	398.0	470.4	542.8	591.0
24.1	82.5°	30.2	84.4	156.8	241.2	211.1	307.6	367.9	422.2	307.6
18.1	85°	24.1	60.3	78.4	144.7	120.6	217.1	187.0	180.9	120.6
12.1	87.5°	18.1	30.2	54.3	66.3	48.2	48.2	60.3	72.4	60.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17706.6
17266.4
17387.0
17489.5
17640.3
17947.9
18466.5
19148.0
19895.8
20523.0
20854.7
20474.8
20094.9
19739.0
19365.1
18930.9
18460.5
17953.9
17399.1
16681.4
15728.5
14878.2
14033.8
11874.8
9528.8
6736.5
3473.8
2068.6
1610.2
1314.7
983.0
759.9
597.1
223.1
120.6
60.3
0.0

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