

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: P638657

Luminaire Tested: **EPH-VN-07-E-935-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638657
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-935-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36152.4 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

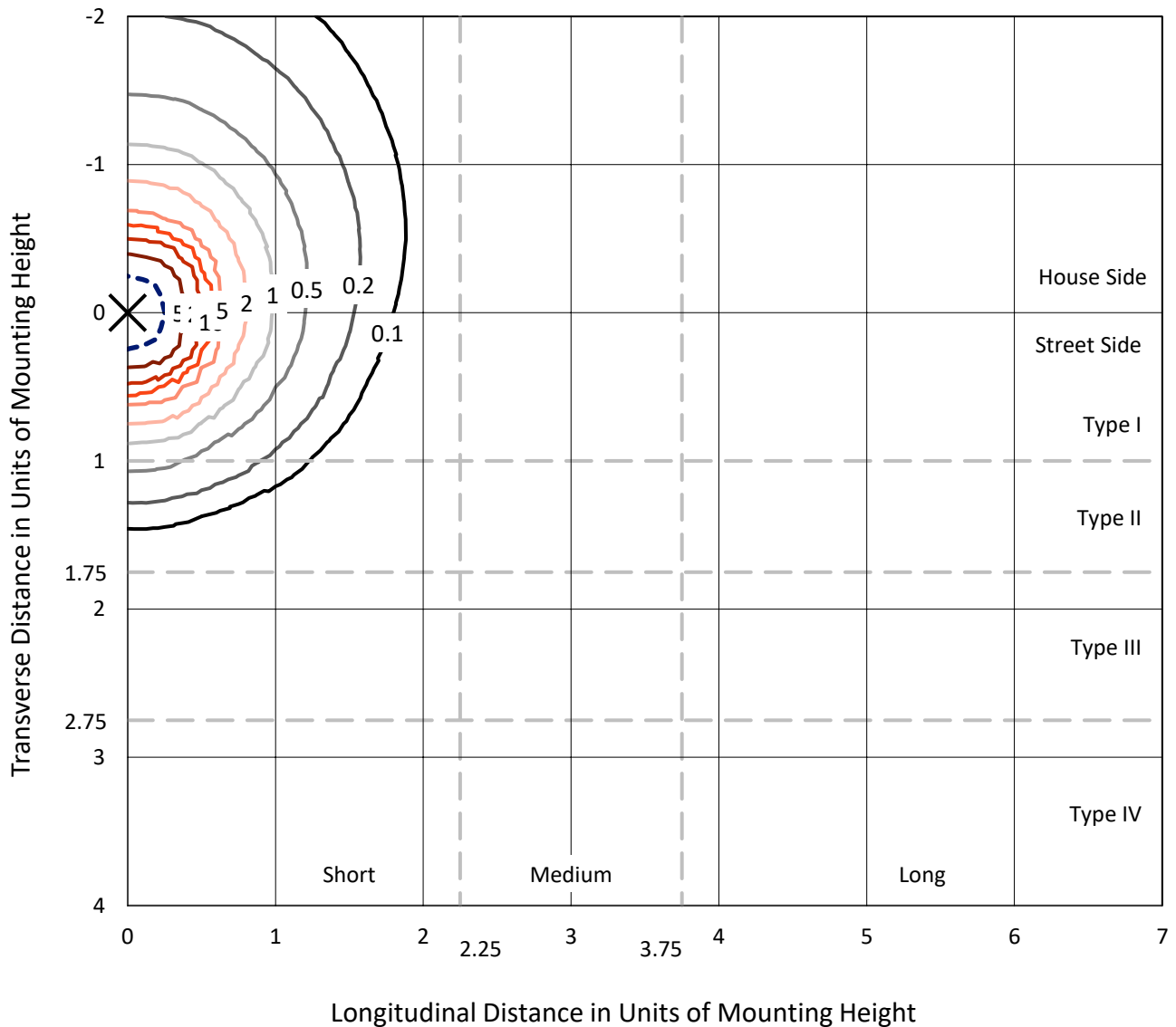
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: EPH-VN-07-E-935-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

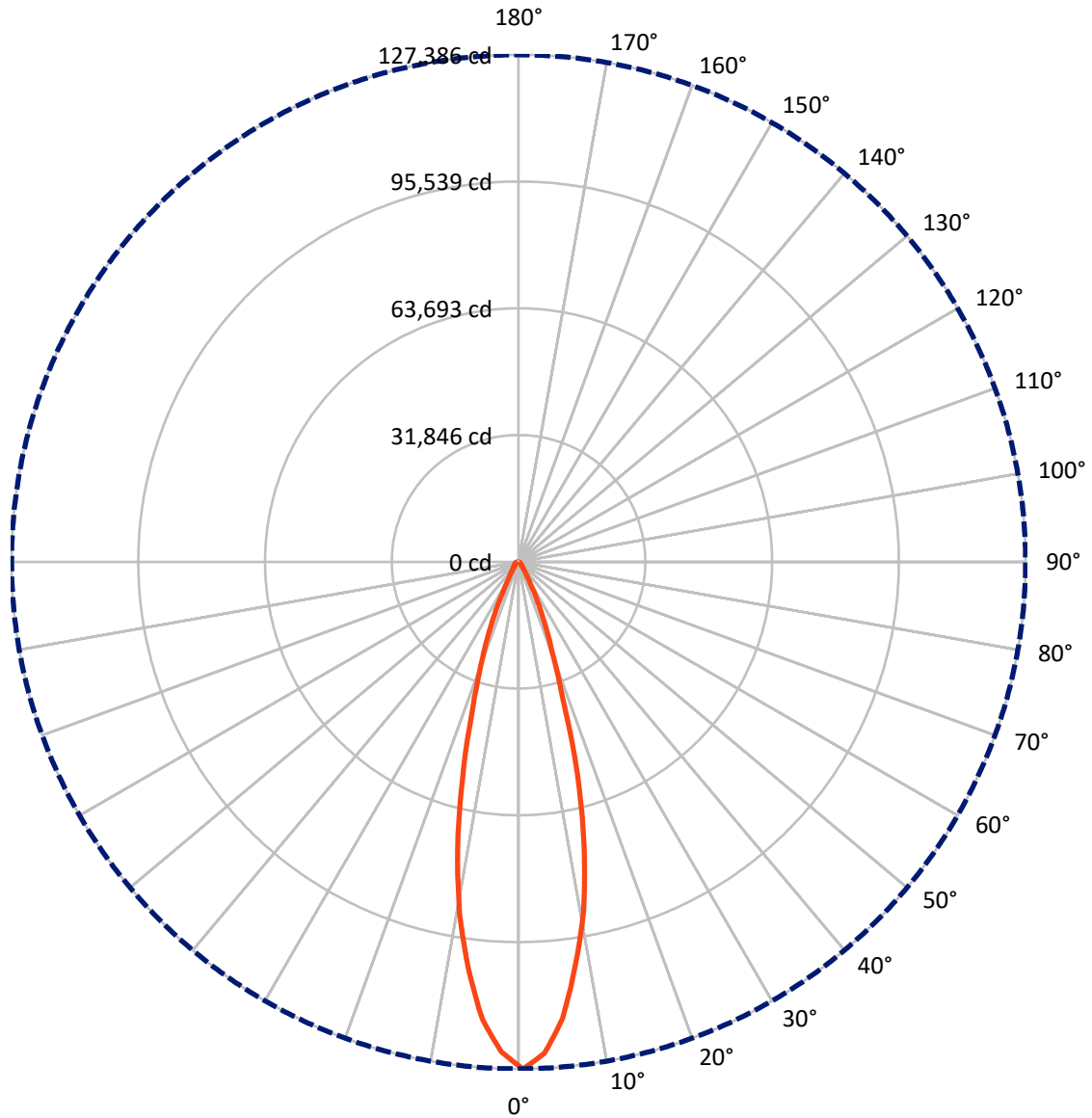
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 318.5 fc
 Type V - Short - N/A

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CATALOG NUMBER: EPH-VN-07-E-935-U-44-VI

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
House Side	Lumens	19062.0	0.0	19062.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	17090.4	0.0	17090.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	36152.4	0.0	36152.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10281.2	28.4
10°-20°	15570.7	43.1
20°-30°	6570.9	18.2
30°-40°	1713.8	4.7
40°-50°	866.8	2.4
50°-60°	566.6	1.6
60°-70°	339.4	0.9
70°-80°	178.6	0.5
80°-90°	64.5	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°	36152.4	100.0
0°-180°	36152.4	100.0

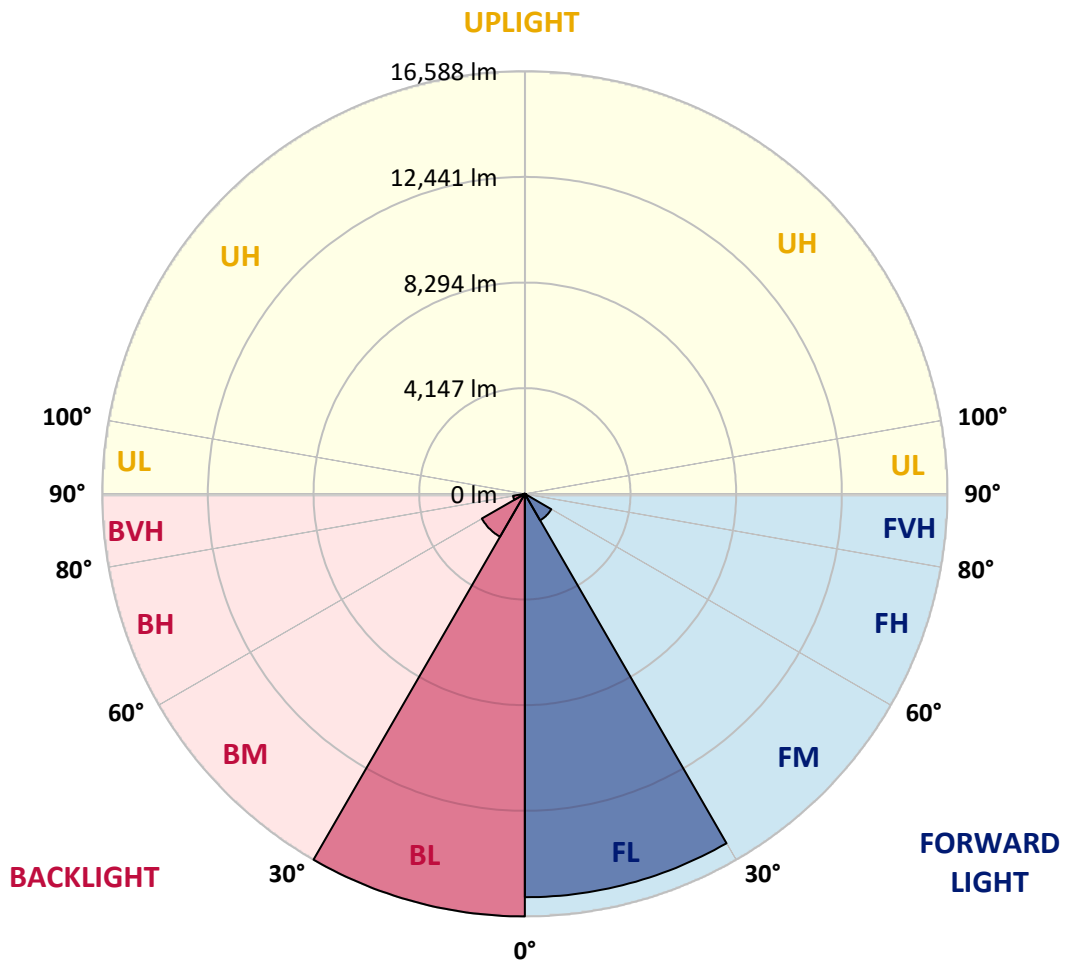


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15834.5	43.8			
FM (30°-60°)	1199.2	3.3			
FH (60°-80°)	48.9	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16588.3	45.9	B5		
BM (30°-60°)	1947.9	5.4	B2/2500		
BH (60°-80°)	469.1	1.3	B1/500		G0/660
BVH (80°-90°)	56.7	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°	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6
2.5°	123674.8	123743.8	123488.0	124040.2	123609.8	124762.8	124190.4	125083.6	124783.1	125282.5
5°	115230.0	115116.4	115043.3	115899.9	115652.3	116890.6	116098.9	115839.0	116642.9	116496.7
7.5°	102477.7	102778.1	102607.6	102830.9	102956.7	104369.6	104816.2	104467.1	104479.2	104682.2
10°	89404.6	88962.0	88332.7	88750.9	89636.0	90253.1	90005.4	90517.0	90403.3	90886.5
12.5°	73319.0	73668.1	73314.9	72941.4	74488.2	74317.7	74748.1	75028.2	74325.8	75888.9
15°	55227.8	55410.5	55840.8	55812.4	57002.0	57241.5	57184.7	57481.0	56932.9	57192.8
17.5°	35480.1	36097.2	37254.3	39211.2	41411.7	41667.5	41602.5	41358.9	41095.0	40802.7
20°	23832.0	23767.1	24185.2	24757.7	29313.0	30518.8	30482.2	29719.0	28614.7	28403.5
22.5°	16694.6	16816.4	16759.6	17327.9	18269.9	21595.0	21184.9	20409.5	20048.1	19812.6
25°	10982.2	10937.6	11221.8	11392.3	12200.2	12606.2	14043.4	13755.2	13199.0	13259.9
27.5°	6694.9	6751.7	6857.3	7003.4	7575.9	7446.0	8266.1	8375.7	8197.1	8006.3
30°	4108.7	4149.3	4234.5	4340.1	4539.0	4396.9	4624.3	5018.1	4953.2	4819.2
32.5°	2789.2	2793.3	2854.2	2894.8	2870.4	2736.4	2809.5	3183.0	3191.1	3179.0
35°	2005.6	2005.6	2062.5	2094.9	2025.9	1916.3	1928.5	2159.9	2261.4	2281.7
37.5°	1384.4	1388.5	1485.9	1583.4	1506.2	1477.8	1429.1	1583.4	1745.8	1770.1
40°	1051.5	1047.5	1096.2	1169.3	1177.4	1124.6	1140.9	1238.3	1404.7	1425.0
42.5°	852.6	856.7	881.0	872.9	877.0	946.0	970.3	1015.0	1169.3	1205.8
45°	718.6	722.7	734.9	694.3	678.0	783.6	816.1	840.4	970.3	1015.0
47.5°	592.8	600.9	613.1	568.4	560.3	629.3	686.1	710.5	824.2	872.9
50°	426.3	434.4	479.1	454.7	479.1	495.3	572.5	609.0	686.1	751.1
52.5°	308.6	316.7	328.9	332.9	393.8	401.9	458.8	515.6	552.2	625.2
55°	243.6	251.7	243.6	235.5	288.3	332.9	353.2	414.1	442.5	527.8
57.5°	138.0	146.2	158.3	182.7	190.8	255.8	276.1	328.9	353.2	434.4
60°	24.4	28.4	44.7	109.6	134.0	162.4	207.1	251.7	284.2	341.0
62.5°	4.1	4.1	8.1	24.4	77.1	113.7	150.2	178.6	207.1	259.8
65°	0.0	0.0	4.1	8.1	20.3	65.0	81.2	105.6	142.1	186.8
67.5°	0.0	0.0	4.1	8.1	12.2	24.4	36.5	65.0	81.2	125.9
70°	0.0	0.0	4.1	8.1	12.2	16.2	20.3	28.4	48.7	77.1
72.5°	0.0	0.0	4.1	8.1	12.2	16.2	20.3	24.4	24.4	48.7
75°	0.0	0.0	4.1	8.1	12.2	20.3	24.4	24.4	20.3	20.3
77.5°	0.0	0.0	4.1	8.1	16.2	24.4	28.4	24.4	16.2	16.2
80°	0.0	0.0	8.1	12.2	20.3	28.4	36.5	28.4	16.2	8.1
82.5°	0.0	0.0	8.1	16.2	20.3	32.5	44.7	36.5	16.2	8.1
85°	0.0	0.0	4.1	12.2	24.4	32.5	44.7	32.5	16.2	4.1
87.5°	0.0	0.0	4.1	4.1	8.1	12.2	24.4	20.3	8.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638657

CATALOG NUMBER: EPH-VN-07-E-935-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
127385.6	0°	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6	127385.6
124336.5	2.5°	125051.1	125700.7	125834.7	125656.0	125915.9	125449.0	125091.7	124166.0	123609.8
116452.1	5°	117203.2	117105.7	117783.8	118007.1	117978.6	117621.4	117122.0	116561.7	116017.7
104288.4	7.5°	104938.0	105063.9	105681.0	106074.8	105875.9	105429.3	105084.2	104661.9	104296.5
91061.0	10°	91893.3	91028.6	91795.9	91795.9	92327.7	91065.1	91182.8	90119.1	90167.8
75860.5	12.5°	76120.4	76433.0	76558.8	76920.2	76299.0	75629.1	74809.0	74646.6	74139.1
56697.5	15°	57513.5	58406.7	57639.4	58950.7	58317.4	57619.1	57493.2	56234.6	56632.5
41123.4	17.5°	40920.4	41907.0	42215.6	42966.6	42390.1	41976.0	41452.3	41070.6	41042.2
28789.2	20°	29016.6	30007.2	30234.6	31135.9	31070.9	30941.0	30498.5	30015.3	29491.6
19597.5	22.5°	19893.8	20701.8	21456.9	22670.9	22650.6	22268.9	22224.3	21542.2	21554.4
13239.6	25°	13377.6	13966.3	14144.9	15387.3	15525.3	15484.7	15253.3	14619.9	14859.5
8087.5	27.5°	8095.6	8611.2	9216.1	9654.6	10068.7	10003.8	9772.3	9419.1	9264.8
4859.8	30°	4989.7	5221.1	5444.4	5972.2	6219.9	6349.8	6240.2	5911.3	5935.7
3199.3	32.5°	3268.3	3463.2	3625.6	3958.5	4088.4	4327.9	4283.3	4214.2	4133.0
2302.0	35°	2383.2	2525.3	2634.9	2789.2	2955.7	3158.7	3191.1	3162.7	3130.2
1778.3	37.5°	1818.9	1965.0	2090.9	2155.8	2285.8	2444.1	2533.4	2529.4	2505.0
1449.4	40°	1477.8	1587.4	1701.1	1786.4	1875.7	1993.4	2103.1	2115.2	2115.2
1218.0	42.5°	1234.2	1327.6	1441.3	1530.6	1595.6	1705.2	1818.9	1827.0	1818.9
1031.2	45°	1055.6	1136.8	1246.4	1352.0	1404.7	1485.9	1595.6	1619.9	1603.7
885.1	47.5°	917.6	990.6	1084.0	1197.7	1254.5	1327.6	1429.1	1457.5	1453.5
763.3	50°	787.6	872.9	966.3	1059.7	1132.7	1201.8	1299.2	1331.7	1319.5
649.6	52.5°	694.3	771.4	852.6	954.1	1039.4	1100.3	1177.4	1234.2	1218.0
548.1	55°	580.6	674.0	759.2	844.5	950.0	1015.0	1088.1	1157.1	1140.9
462.8	57.5°	503.4	580.6	678.0	755.2	860.7	937.9	1010.9	1084.0	1080.0
377.6	60°	422.2	503.4	596.8	678.0	775.5	860.7	933.8	1015.0	1023.1
284.2	62.5°	332.9	430.4	511.6	604.9	702.4	795.8	860.7	941.9	954.1
215.2	65°	251.7	353.2	442.5	531.9	629.3	730.8	787.6	856.7	868.8
158.3	67.5°	186.8	272.0	377.6	458.8	560.3	657.7	710.5	767.3	787.6
97.4	70°	142.1	207.1	316.7	393.8	499.4	576.5	633.4	682.1	698.3
65.0	72.5°	89.3	162.4	255.8	337.0	430.4	499.4	540.0	568.4	592.8
36.5	75°	60.9	125.9	207.1	288.3	357.3	410.1	446.6	471.0	491.3
16.2	77.5°	36.5	97.4	170.5	239.5	284.2	324.8	361.3	377.6	389.8
12.2	80°	20.3	73.1	142.1	194.9	223.3	251.7	280.1	300.4	308.6
8.1	82.5°	12.2	56.8	113.7	150.2	162.4	190.8	219.2	231.4	231.4
4.1	85°	8.1	40.6	77.1	109.6	117.7	138.0	146.2	154.3	162.4
4.1	87.5°	8.1	24.4	48.7	60.9	65.0	73.1	77.1	85.3	93.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
127385.6
123199.8
115408.7
103058.2
89692.8
73676.3
56234.6
40287.1
29264.3
21318.9
14481.9
9130.9
5830.1
4104.6
3118.1
2492.8
2090.9
1810.7
1603.7
1445.3
1311.4
1213.9
1149.0
1084.0
1027.2
962.2
881.0
795.8
706.4
588.7
487.2
385.7
300.4
227.4
158.3
89.3
0.0

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