

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: P638637

Luminaire Tested: **EPH-VN-04-E-750-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638637
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-750-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34504.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

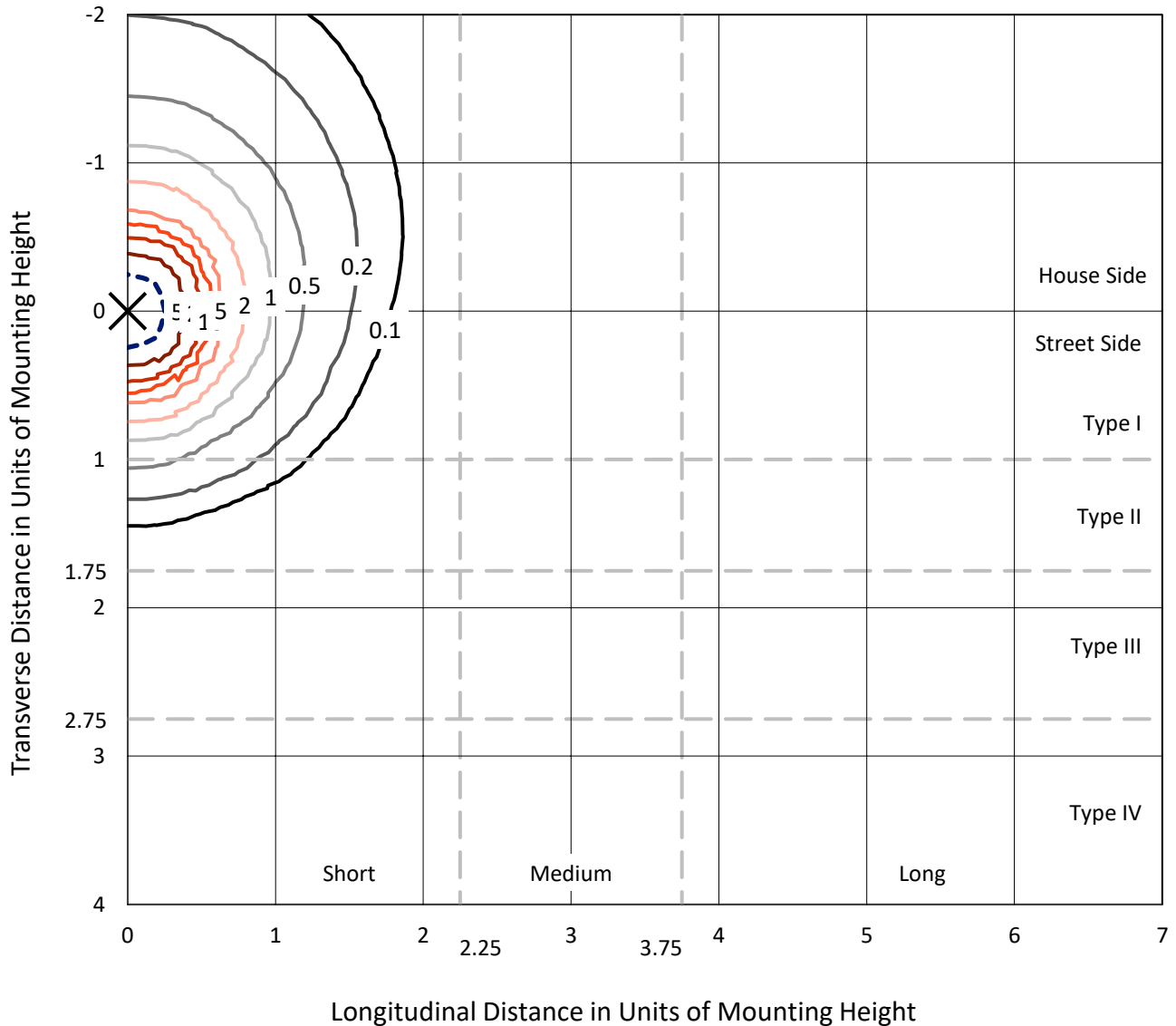
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

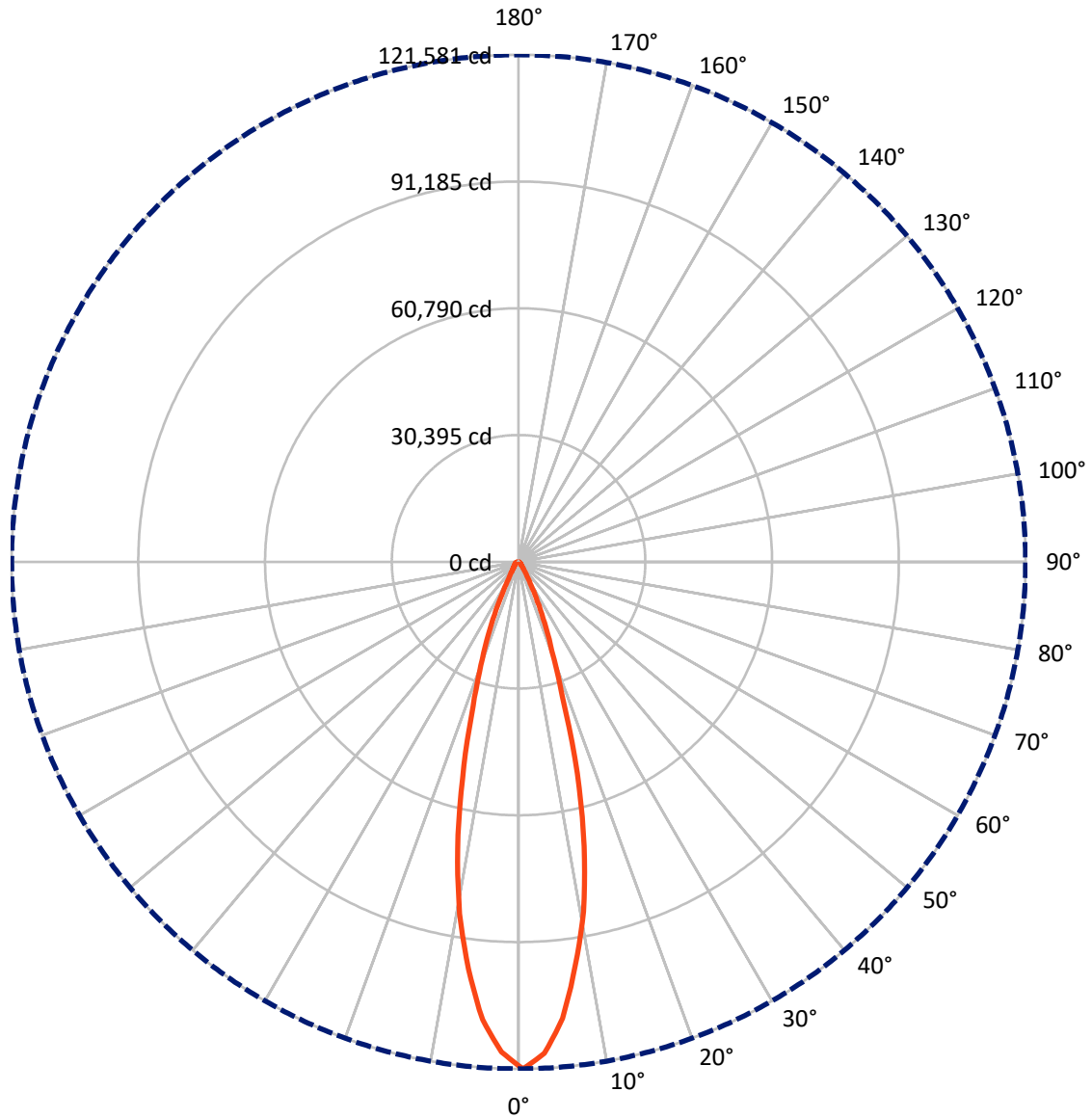
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 304 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
House Side	Lumens	18193.3	0.0	18193.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16311.6	0.0	16311.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	34504.9	0.0	34504.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9812.6	28.4
10°-20°	14861.2	43.1
20°-30°	6271.5	18.2
30°-40°	1635.7	4.7
40°-50°	827.3	2.4
50°-60°	540.7	1.6
60°-70°	324.0	0.9
70°-80°	170.4	0.5
80°-90°	61.6	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°	34504.9	100.0
0°-180°	34504.9	100.0

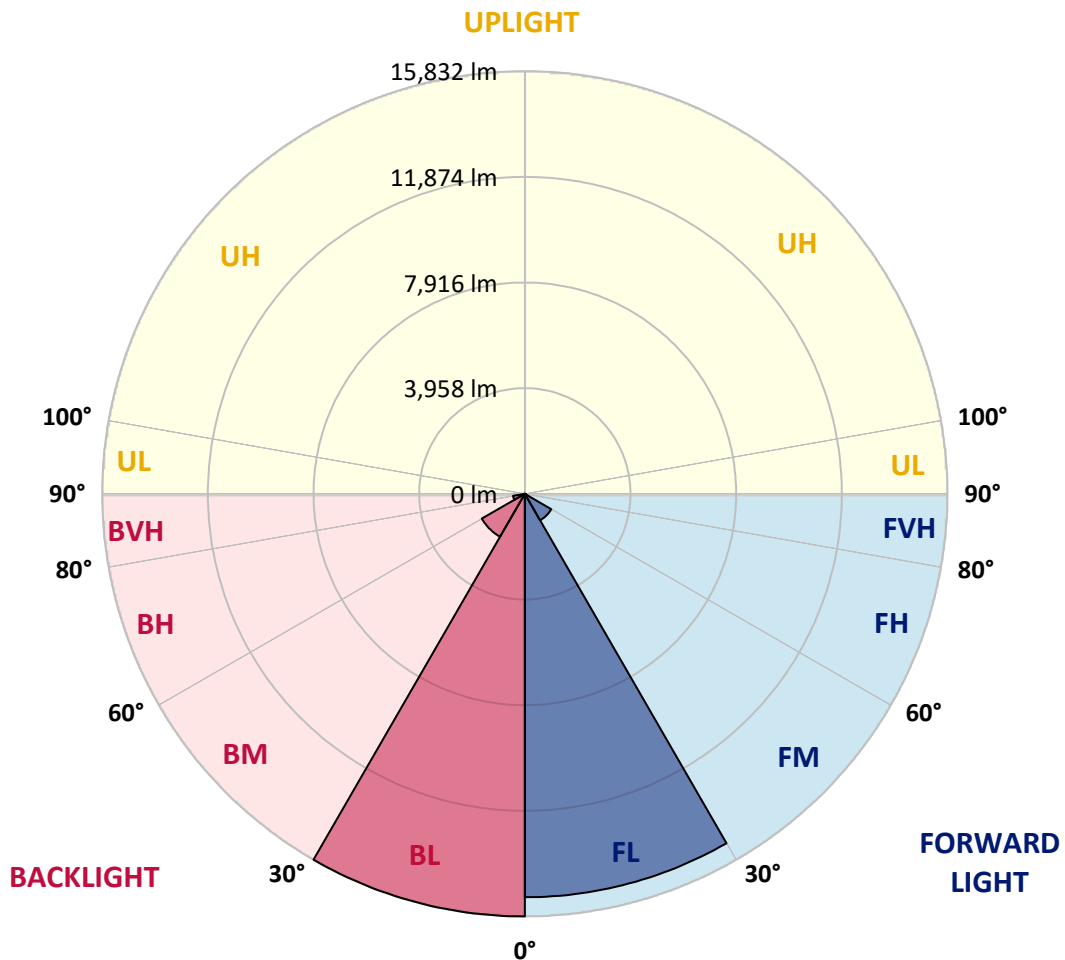


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15112.9	43.8			
FM (30°-60°)	1144.5	3.3			
FH (60°-80°)	46.6	0.1			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	15832.3	45.9	B5		
BM (30°-60°)	1859.2	5.4	B2/2500		
BH (60°-80°)	447.8	1.3	B1/500		G0/660
BVH (80°-90°)	54.1	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°	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5
2.5°	118038.8	118104.7	117860.6	118387.5	117976.8	119077.3	118530.9	119383.4	119096.7	119573.3
5°	109978.9	109870.4	109800.7	110618.3	110381.9	111563.8	110808.1	110560.1	111327.4	111187.9
7.5°	97807.7	98094.4	97931.7	98144.8	98264.9	99613.4	100039.6	99706.4	99718.0	99911.8
10°	85330.3	84908.0	84307.3	84706.5	85551.2	86140.2	85903.8	86392.1	86283.6	86744.7
12.5°	69977.8	70311.0	69973.9	69617.4	71093.8	70931.0	71341.8	71609.1	70938.8	72430.6
15°	52711.0	52885.4	53296.1	53269.0	54404.3	54633.0	54578.7	54861.6	54338.5	54586.5
17.5°	33863.2	34452.2	35556.6	37424.3	39524.5	39768.6	39706.6	39474.1	39222.3	38943.3
20°	22746.0	22684.0	23083.1	23629.5	27977.2	29128.0	29093.1	28364.7	27310.7	27109.2
22.5°	15933.8	16050.1	15995.8	16538.3	17437.3	20610.9	20219.5	19479.4	19134.5	18909.8
25°	10481.7	10439.1	10710.4	10873.1	11644.2	12031.7	13403.5	13128.3	12597.5	12655.6
27.5°	6389.8	6444.0	6544.8	6684.3	7230.7	7106.7	7889.4	7994.0	7823.5	7641.4
30°	3921.5	3960.2	4041.6	4142.3	4332.2	4196.6	4413.6	4789.4	4727.4	4599.6
32.5°	2662.1	2666.0	2724.1	2762.8	2739.6	2611.7	2681.5	3038.0	3045.7	3034.1
35°	1914.2	1914.2	1968.5	1999.5	1933.6	1829.0	1840.6	2061.5	2158.3	2177.7
37.5°	1321.4	1325.2	1418.2	1511.2	1437.6	1410.5	1364.0	1511.2	1666.2	1689.5
40°	1003.6	999.7	1046.2	1116.0	1123.7	1073.4	1088.9	1181.9	1340.7	1360.1
42.5°	813.7	817.6	840.9	833.1	837.0	902.9	926.1	968.7	1116.0	1150.9
45°	685.9	689.7	701.4	662.6	647.1	747.9	778.9	802.1	926.1	968.7
47.5°	565.7	573.5	585.1	542.5	534.7	600.6	654.9	678.1	786.6	833.1
50°	406.9	414.6	457.2	434.0	457.2	472.7	546.4	581.2	654.9	716.9
52.5°	294.5	302.2	313.9	317.7	375.9	383.6	437.9	492.1	527.0	596.7
55°	232.5	240.2	232.5	224.7	275.1	317.7	337.1	395.2	422.4	503.7
57.5°	131.7	139.5	151.1	174.4	182.1	244.1	263.5	313.9	337.1	414.6
60°	23.2	27.1	42.6	104.6	127.9	155.0	197.6	240.2	271.2	325.5
62.5°	3.9	3.9	7.7	23.2	73.6	108.5	143.4	170.5	197.6	248.0
65°	0.0	0.0	3.9	7.7	19.4	62.0	77.5	100.7	135.6	178.2
67.5°	0.0	0.0	3.9	7.7	11.6	23.2	34.9	62.0	77.5	120.1
70°	0.0	0.0	3.9	7.7	11.6	15.5	19.4	27.1	46.5	73.6
72.5°	0.0	0.0	3.9	7.7	11.6	15.5	19.4	23.2	23.2	46.5
75°	0.0	0.0	3.9	7.7	11.6	19.4	23.2	23.2	19.4	19.4
77.5°	0.0	0.0	3.9	7.7	15.5	23.2	27.1	23.2	15.5	15.5
80°	0.0	0.0	7.7	11.6	19.4	27.1	34.9	27.1	15.5	7.7
82.5°	0.0	0.0	7.7	15.5	19.4	31.0	42.6	34.9	15.5	7.7
85°	0.0	0.0	3.9	11.6	23.2	31.0	42.6	31.0	15.5	3.9
87.5°	0.0	0.0	3.9	3.9	7.7	11.6	23.2	19.4	7.7	3.9
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°
121580.5	0°	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5	121580.5
118670.4	2.5°	119352.4	119972.4	120100.3	119929.8	120177.8	119732.2	119391.2	118507.7	117976.8
111145.3	5°	111862.1	111769.1	112416.2	112629.4	112602.2	112261.2	111784.6	111249.9	110730.6
99535.9	7.5°	100155.9	100276.0	100865.0	101240.9	101051.0	100624.8	100295.4	99892.4	99543.7
86911.3	10°	87705.7	86880.3	87612.7	87612.7	88120.3	86915.2	87027.6	86012.3	86058.8
72403.5	12.5°	72651.5	72949.9	73070.0	73414.9	72822.0	72182.6	71399.9	71244.9	70760.5
54113.7	15°	54892.6	55745.1	55012.7	56264.3	55659.8	54993.3	54873.2	53672.0	54051.7
39249.4	17.5°	39055.6	39997.3	40291.8	41008.6	40458.4	40063.1	39563.3	39199.0	39171.9
27477.3	20°	27694.3	28639.8	28856.8	29717.0	29655.0	29531.0	29108.6	28647.5	28147.7
18704.4	22.5°	18987.3	19758.4	20479.1	21637.7	21618.4	21254.1	21211.5	20560.5	20572.1
12636.2	25°	12768.0	13329.8	13500.3	14686.1	14817.8	14779.1	14558.2	13953.7	14182.3
7718.9	27.5°	7726.7	8218.8	8796.1	9214.6	9609.9	9547.9	9327.0	8989.9	8842.6
4638.3	30°	4762.3	4983.2	5196.3	5700.1	5936.4	6060.4	5955.8	5641.9	5665.2
3053.5	32.5°	3119.3	3305.3	3460.3	3778.1	3902.1	4130.7	4088.1	4022.2	3944.7
2197.1	35°	2274.6	2410.2	2514.8	2662.1	2821.0	3014.7	3045.7	3018.6	2987.6
1697.2	37.5°	1736.0	1875.5	1995.6	2057.6	2181.6	2332.7	2418.0	2414.1	2390.8
1383.4	40°	1410.5	1515.1	1623.6	1705.0	1790.2	1902.6	2007.2	2018.9	2018.9
1162.5	42.5°	1178.0	1267.1	1375.6	1460.9	1522.9	1627.5	1736.0	1743.7	1736.0
984.2	45°	1007.5	1085.0	1189.6	1290.4	1340.7	1418.2	1522.9	1546.1	1530.6
844.7	47.5°	875.7	945.5	1034.6	1143.1	1197.4	1267.1	1364.0	1391.1	1387.2
728.5	50°	751.7	833.1	922.2	1011.4	1081.1	1147.0	1240.0	1271.0	1259.4
620.0	52.5°	662.6	736.2	813.7	910.6	992.0	1050.1	1123.7	1178.0	1162.5
523.1	55°	554.1	643.2	724.6	806.0	906.7	968.7	1038.5	1104.4	1088.9
441.7	57.5°	480.5	554.1	647.1	720.7	821.5	895.1	964.9	1034.6	1030.7
360.4	60°	403.0	480.5	569.6	647.1	740.1	821.5	891.2	968.7	976.5
271.2	62.5°	317.7	410.7	488.2	577.4	670.4	759.5	821.5	899.0	910.6
205.4	65°	240.2	337.1	422.4	507.6	600.6	697.5	751.7	817.6	829.2
151.1	67.5°	178.2	259.6	360.4	437.9	534.7	627.7	678.1	732.4	751.7
93.0	70°	135.6	197.6	302.2	375.9	476.6	550.2	604.5	651.0	666.5
62.0	72.5°	85.2	155.0	244.1	321.6	410.7	476.6	515.4	542.5	565.7
34.9	75°	58.1	120.1	197.6	275.1	341.0	391.4	426.2	449.5	468.9
15.5	77.5°	34.9	93.0	162.7	228.6	271.2	310.0	344.9	360.4	372.0
11.6	80°	19.4	69.7	135.6	186.0	213.1	240.2	267.4	286.7	294.5
7.7	82.5°	11.6	54.2	108.5	143.4	155.0	182.1	209.2	220.9	220.9
3.9	85°	7.7	38.7	73.6	104.6	112.4	131.7	139.5	147.2	155.0
3.9	87.5°	7.7	23.2	46.5	58.1	62.0	69.7	73.6	81.4	89.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
121580.5
117585.4
110149.4
98361.8
85605.5
70318.8
53672.0
38451.2
27930.7
20347.4
13822.0
8714.8
5564.4
3917.6
2976.0
2379.2
1995.6
1728.2
1530.6
1379.5
1251.6
1158.6
1096.6
1034.6
980.4
918.4
840.9
759.5
674.2
561.9
465.0
368.1
286.7
217.0
151.1
85.2
0.0

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