

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: P638652

Luminaire Tested: **EPH-VN-08-D-930-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638652
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-930-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34411.3 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

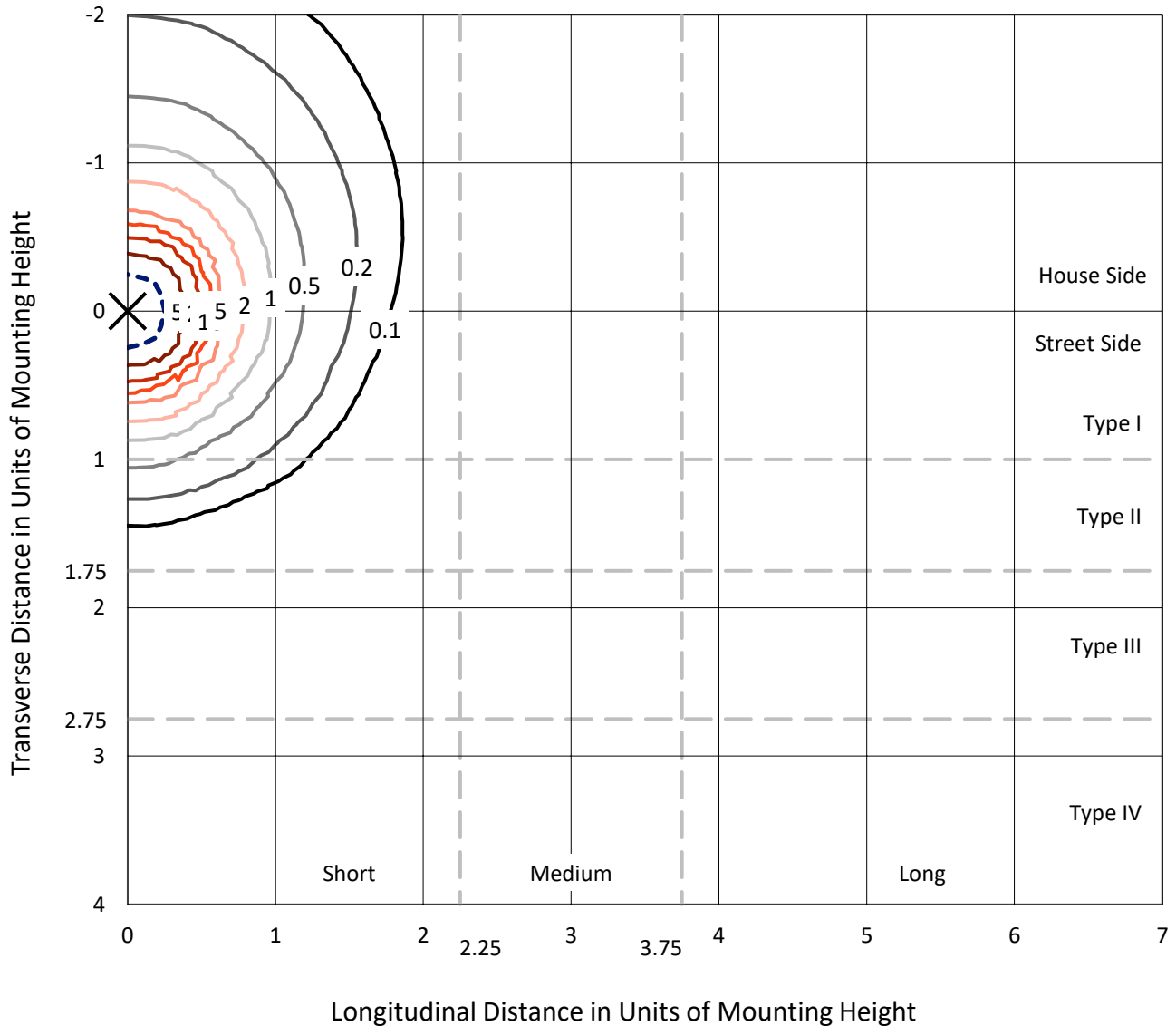
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

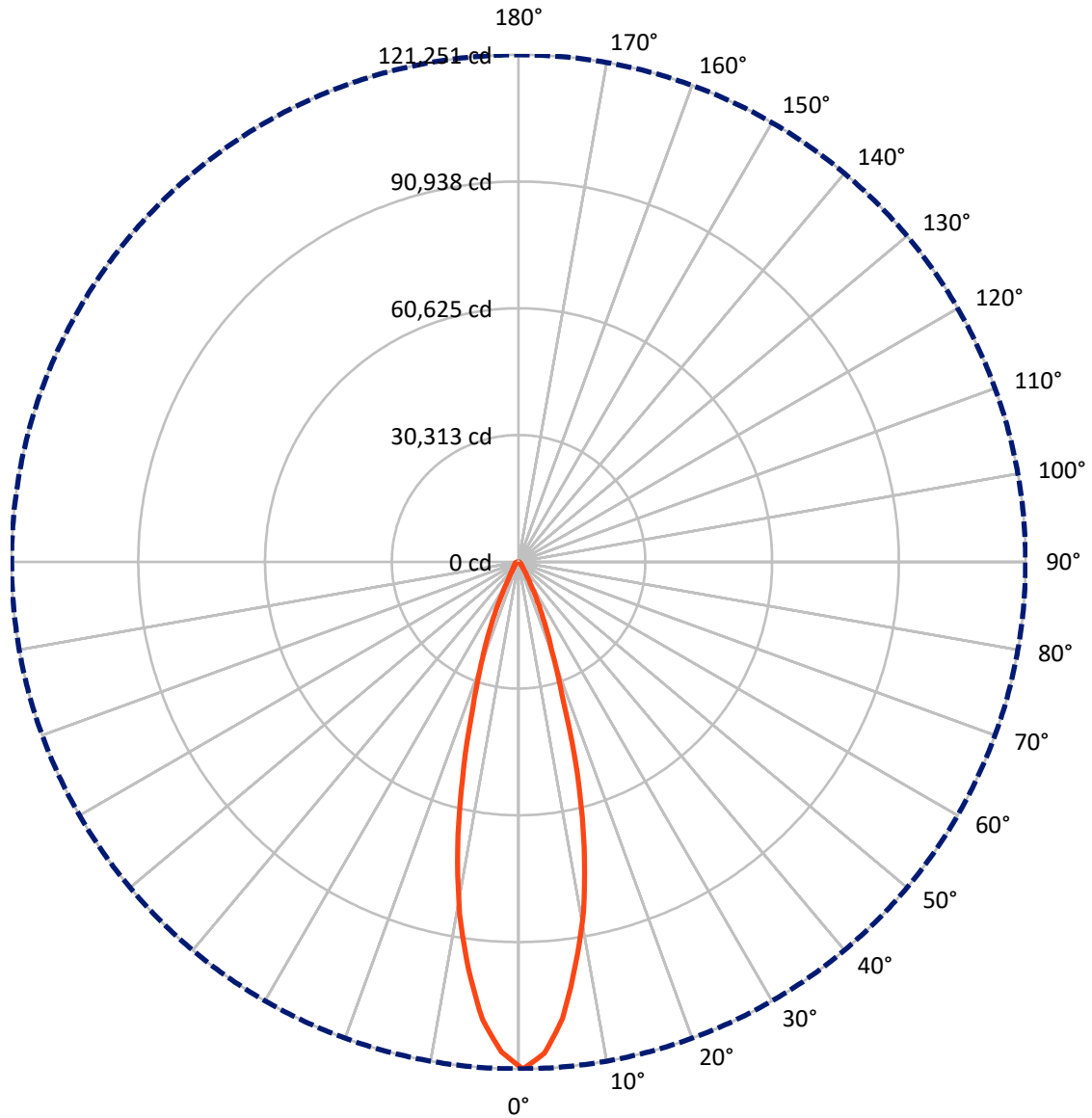
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 303.1 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	18144.0	0.0	18144.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16267.3	0.0	16267.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	34411.3	0.0	34411.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9786.0	28.4
10°-20°	14820.8	43.1
20°-30°	6254.5	18.2
30°-40°	1631.2	4.7
40°-50°	825.1	2.4
50°-60°	539.3	1.6
60°-70°	323.1	0.9
70°-80°	170.0	0.5
80°-90°	61.4	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°	34411.3	100.0
0°-180°	34411.3	100.0

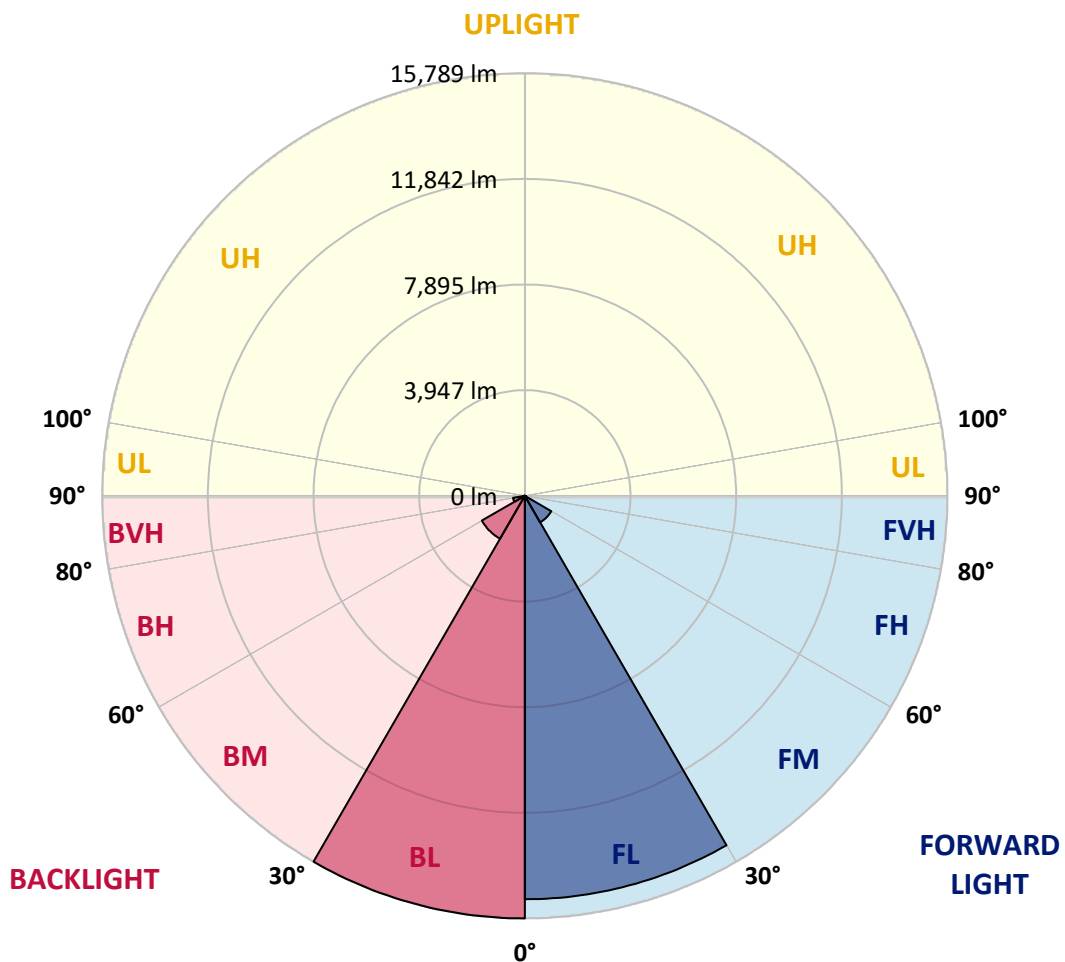


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15071.9	43.8			
FM (30°-60°)	1141.4	3.3			
FH (60°-80°)	46.5	0.1			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	15789.4	45.9	B5		
BM (30°-60°)	1854.1	5.4	B2/2500		
BH (60°-80°)	446.5	1.3	B1/500		G0/660
BVH (80°-90°)	53.9	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°	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5
2.5°	117718.5	117784.2	117540.7	118066.3	117656.6	118754.1	118209.2	119059.4	118773.4	119248.8
5°	109680.4	109572.2	109502.7	110318.1	110082.3	111261.0	110507.4	110260.1	111025.3	110886.1
7.5°	97542.2	97828.2	97665.9	97878.4	97998.2	99343.1	99768.1	99435.8	99447.4	99640.6
10°	85098.7	84677.5	84078.5	84476.6	85319.0	85906.4	85670.7	86157.6	86049.4	86509.3
12.5°	69787.9	70120.2	69784.0	69428.5	70900.8	70738.5	71148.1	71414.8	70746.2	72234.0
15°	52567.9	52741.8	53151.5	53124.4	54256.7	54484.7	54430.6	54712.7	54191.0	54438.3
17.5°	33771.3	34358.7	35460.1	37322.7	39417.2	39660.7	39598.9	39367.0	39115.8	38837.6
20°	22684.2	22622.4	23020.4	23565.3	27901.2	29049.0	29014.2	28287.7	27236.5	27035.6
22.5°	15890.6	16006.5	15952.4	16493.4	17390.0	20554.9	20164.6	19426.5	19082.6	18858.4
25°	10453.3	10410.8	10681.3	10843.6	11612.6	11999.1	13367.1	13092.7	12563.3	12621.2
27.5°	6372.5	6426.6	6527.0	6666.2	7211.0	7087.4	7868.0	7972.3	7802.3	7620.7
30°	3910.8	3949.5	4030.6	4131.1	4320.4	4185.2	4401.6	4776.4	4714.6	4587.1
32.5°	2654.9	2658.7	2716.7	2755.3	2732.2	2604.6	2674.2	3029.7	3037.4	3025.9
35°	1909.0	1909.0	1963.1	1994.0	1928.4	1824.0	1835.6	2055.9	2152.5	2171.8
37.5°	1317.8	1321.6	1414.4	1507.1	1433.7	1406.7	1360.3	1507.1	1661.7	1684.9
40°	1000.9	997.0	1043.4	1113.0	1120.7	1070.4	1085.9	1178.7	1337.1	1356.4
42.5°	811.5	815.4	838.6	830.9	834.7	900.4	923.6	966.1	1113.0	1147.7
45°	684.0	687.9	699.5	660.8	645.4	745.8	776.8	799.9	923.6	966.1
47.5°	564.2	571.9	583.5	541.0	533.3	599.0	653.1	676.3	784.5	830.9
50°	405.8	413.5	456.0	432.8	456.0	471.5	544.9	579.7	653.1	714.9
52.5°	293.7	301.4	313.0	316.9	374.9	382.6	436.7	490.8	525.6	595.1
55°	231.9	239.6	231.9	224.1	274.4	316.9	336.2	394.2	421.2	502.4
57.5°	131.4	139.1	150.7	173.9	181.6	243.5	262.8	313.0	336.2	413.5
60°	23.2	27.1	42.5	104.3	127.5	154.6	197.1	239.6	270.5	324.6
62.5°	3.9	3.9	7.7	23.2	73.4	108.2	143.0	170.0	197.1	247.3
65°	0.0	0.0	3.9	7.7	19.3	61.8	77.3	100.5	135.3	177.8
67.5°	0.0	0.0	3.9	7.7	11.6	23.2	34.8	61.8	77.3	119.8
70°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	27.1	46.4	73.4
72.5°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	23.2	23.2	46.4
75°	0.0	0.0	3.9	7.7	11.6	19.3	23.2	23.2	19.3	19.3
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	19.3	27.1	34.8	27.1	15.5	7.7
82.5°	0.0	0.0	7.7	15.5	19.3	30.9	42.5	34.8	15.5	7.7
85°	0.0	0.0	3.9	11.6	23.2	30.9	42.5	30.9	15.5	3.9
87.5°	0.0	0.0	3.9	3.9	7.7	11.6	23.2	19.3	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°
121250.5	0°	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5	121250.5
118348.4	2.5°	119028.5	119646.8	119774.3	119604.3	119851.6	119407.2	119067.1	118186.1	117656.6
110843.6	5°	111558.5	111465.8	112111.2	112323.7	112296.7	111956.6	111481.3	110948.0	110430.1
99265.8	7.5°	99884.1	100003.9	100591.3	100966.1	100776.8	100351.7	100023.2	99621.3	99273.5
86675.4	10°	87467.6	86644.5	87374.9	87374.9	87881.1	86679.3	86791.4	85778.9	85825.3
72207.0	12.5°	72454.3	72751.9	72871.7	73215.6	72624.3	71986.7	71206.1	71051.5	70568.5
53966.9	15°	54743.6	55593.8	54863.4	56111.6	55508.8	54844.1	54724.3	53526.3	53905.0
39142.9	17.5°	38949.7	39888.7	40182.4	40897.3	40348.6	39954.4	39455.9	39092.6	39065.6
27402.7	20°	27619.1	28562.0	28778.5	29636.4	29574.5	29450.9	29029.6	28569.8	28071.3
18653.6	22.5°	18935.7	19704.8	20423.5	21579.0	21559.7	21196.4	21153.9	20504.7	20516.3
12601.9	25°	12733.3	13293.7	13463.7	14646.2	14777.6	14739.0	14518.7	13915.8	14143.8
7698.0	27.5°	7705.7	8196.5	8772.3	9189.6	9583.8	9522.0	9301.7	8965.5	8818.6
4625.7	30°	4749.4	4969.7	5182.2	5684.6	5920.3	6044.0	5939.6	5626.6	5649.8
3045.2	32.5°	3110.9	3296.4	3450.9	3767.8	3891.5	4119.5	4077.0	4011.3	3934.0
2191.1	35°	2268.4	2403.7	2508.0	2654.9	2813.3	3006.5	3037.4	3010.4	2979.5
1692.6	37.5°	1731.3	1870.4	1990.2	2052.0	2175.7	2326.4	2411.4	2407.5	2384.4
1379.6	40°	1406.7	1511.0	1619.2	1700.4	1785.4	1897.4	2001.8	2013.4	2013.4
1159.3	42.5°	1174.8	1263.7	1371.9	1456.9	1518.7	1623.1	1731.3	1739.0	1731.3
981.6	45°	1004.8	1082.0	1186.4	1286.9	1337.1	1414.4	1518.7	1541.9	1526.5
842.4	47.5°	873.4	942.9	1031.8	1140.0	1194.1	1263.7	1360.3	1387.3	1383.5
726.5	50°	749.7	830.9	919.7	1008.6	1078.2	1143.9	1236.6	1267.5	1255.9
618.3	52.5°	660.8	734.2	811.5	908.1	989.3	1047.3	1120.7	1174.8	1159.3
521.7	55°	552.6	641.5	722.6	803.8	904.3	966.1	1035.7	1101.4	1085.9
440.5	57.5°	479.2	552.6	645.4	718.8	819.3	892.7	962.2	1031.8	1027.9
359.4	60°	401.9	479.2	568.1	645.4	738.1	819.3	888.8	966.1	973.8
270.5	62.5°	316.9	409.6	486.9	575.8	668.5	757.4	819.3	896.5	908.1
204.8	65°	239.6	336.2	421.2	506.2	599.0	695.6	749.7	815.4	827.0
150.7	67.5°	177.8	258.9	359.4	436.7	533.3	626.0	676.3	730.4	749.7
92.7	70°	135.3	197.1	301.4	374.9	475.3	548.7	602.9	649.2	664.7
61.8	72.5°	85.0	154.6	243.5	320.7	409.6	475.3	514.0	541.0	564.2
34.8	75°	58.0	119.8	197.1	274.4	340.1	390.3	425.1	448.3	467.6
15.5	77.5°	34.8	92.7	162.3	228.0	270.5	309.2	343.9	359.4	371.0
11.6	80°	19.3	69.6	135.3	185.5	212.5	239.6	266.6	286.0	293.7
7.7	82.5°	11.6	54.1	108.2	143.0	154.6	181.6	208.7	220.3	220.3
3.9	85°	7.7	38.6	73.4	104.3	112.1	131.4	139.1	146.8	154.6
3.9	87.5°	7.7	23.2	46.4	58.0	61.8	69.6	73.4	81.2	88.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
121250.5
117266.3
109850.5
98094.8
85373.1
70127.9
53526.3
38346.8
27854.9
20292.2
13784.4
8691.1
5549.3
3906.9
2967.9
2372.8
1990.2
1723.5
1526.5
1375.7
1248.2
1155.5
1093.6
1031.8
977.7
915.9
838.6
757.4
672.4
560.3
463.7
367.1
286.0
216.4
150.7
85.0
0.0

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