

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: P638707

Luminaire Tested: **EPH-VN-08-E-930-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638707
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-930-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41160.1 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

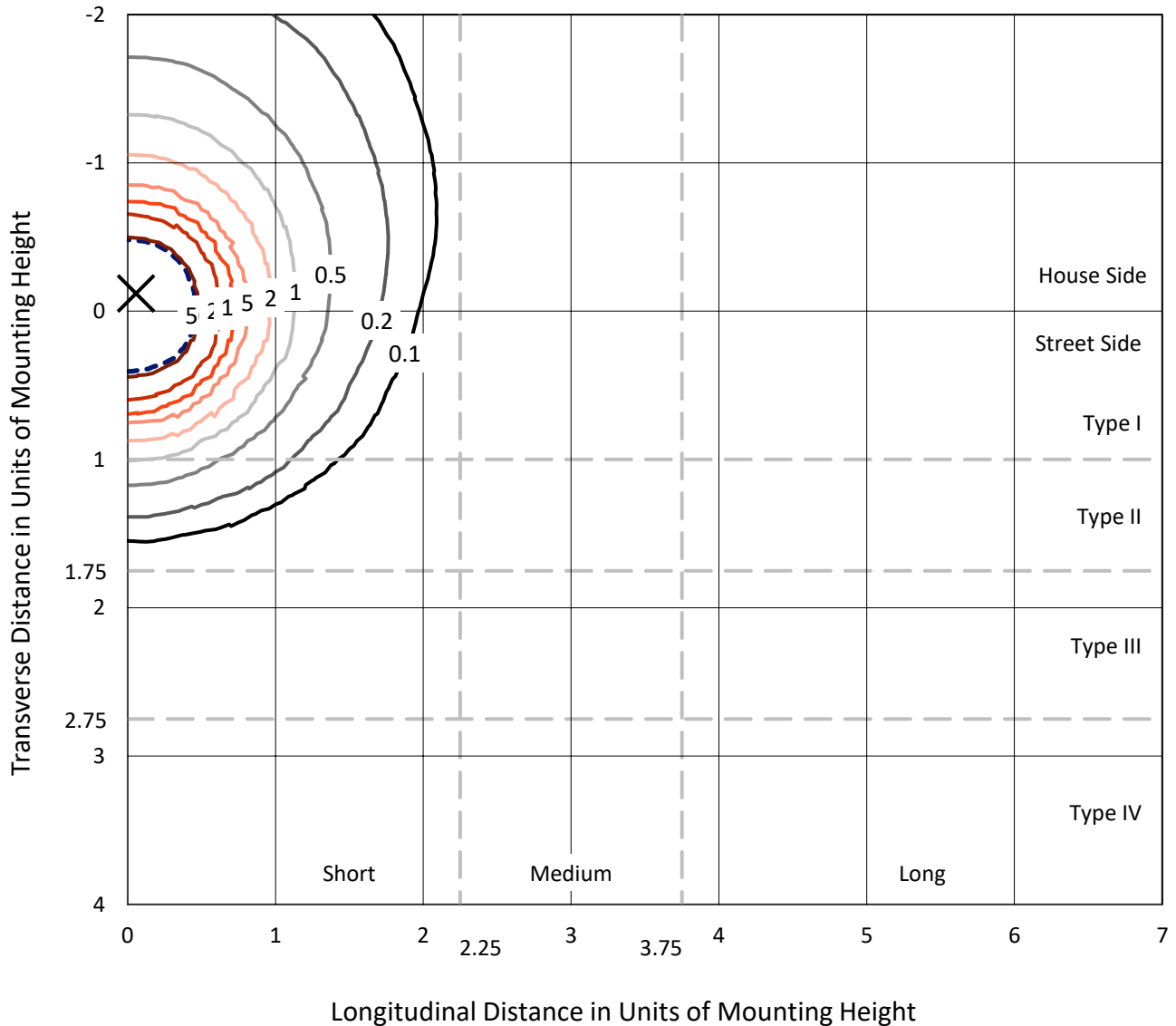
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

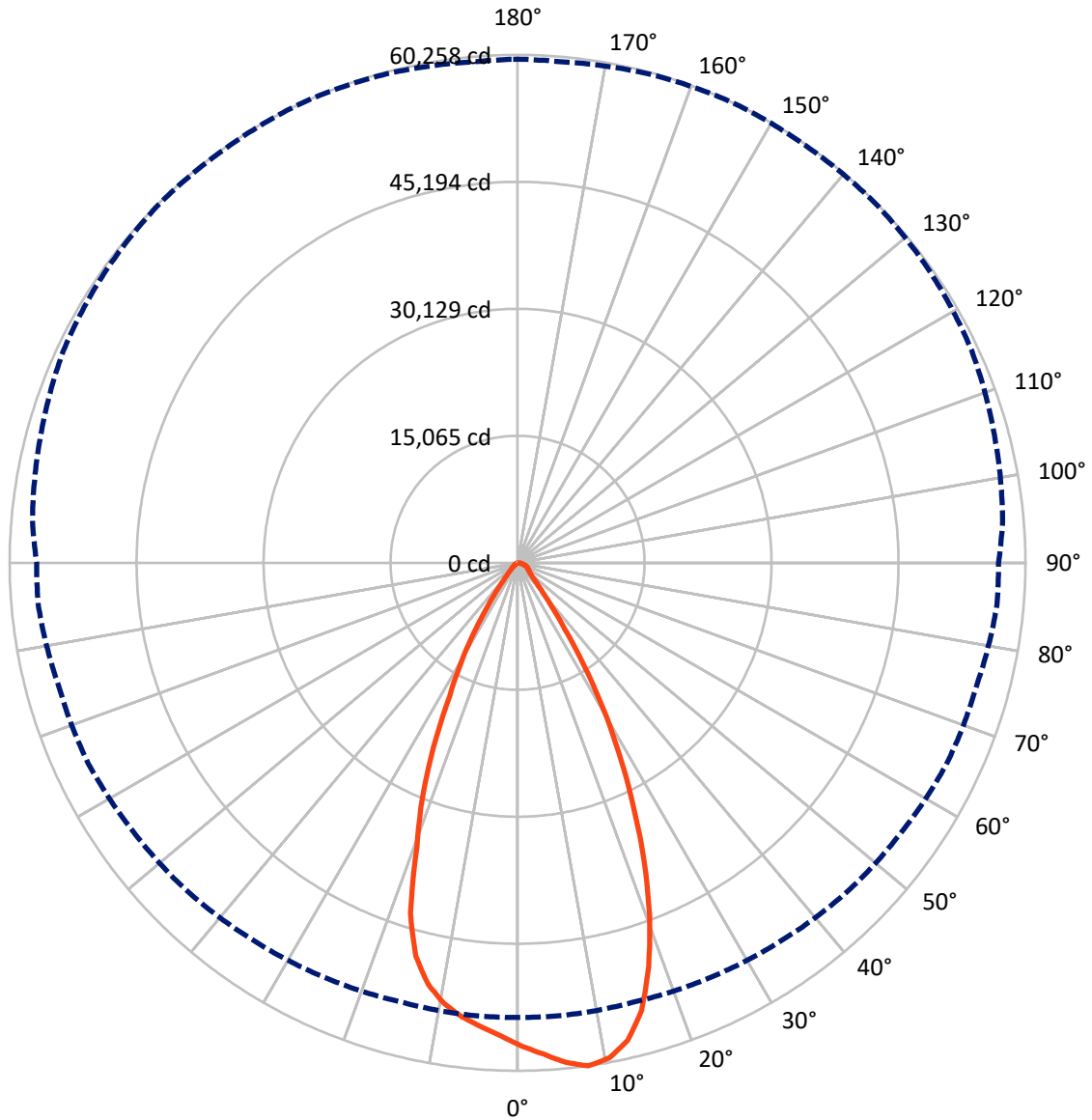
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 145.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22721.9	0.0	22721.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	18438.2	0.0	18438.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	41160.1	0.0	41160.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5467.7	13.3
10°-20°	14177.7	34.4
20°-30°	12990.7	31.6
30°-40°	5248.2	12.8
40°-50°	1539.6	3.7
50°-60°	860.8	2.1
60°-70°	522.8	1.3
70°-80°	265.6	0.6
80°-90°	86.9	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°	41160.1	100.0
0°-180°	41160.1	100.0



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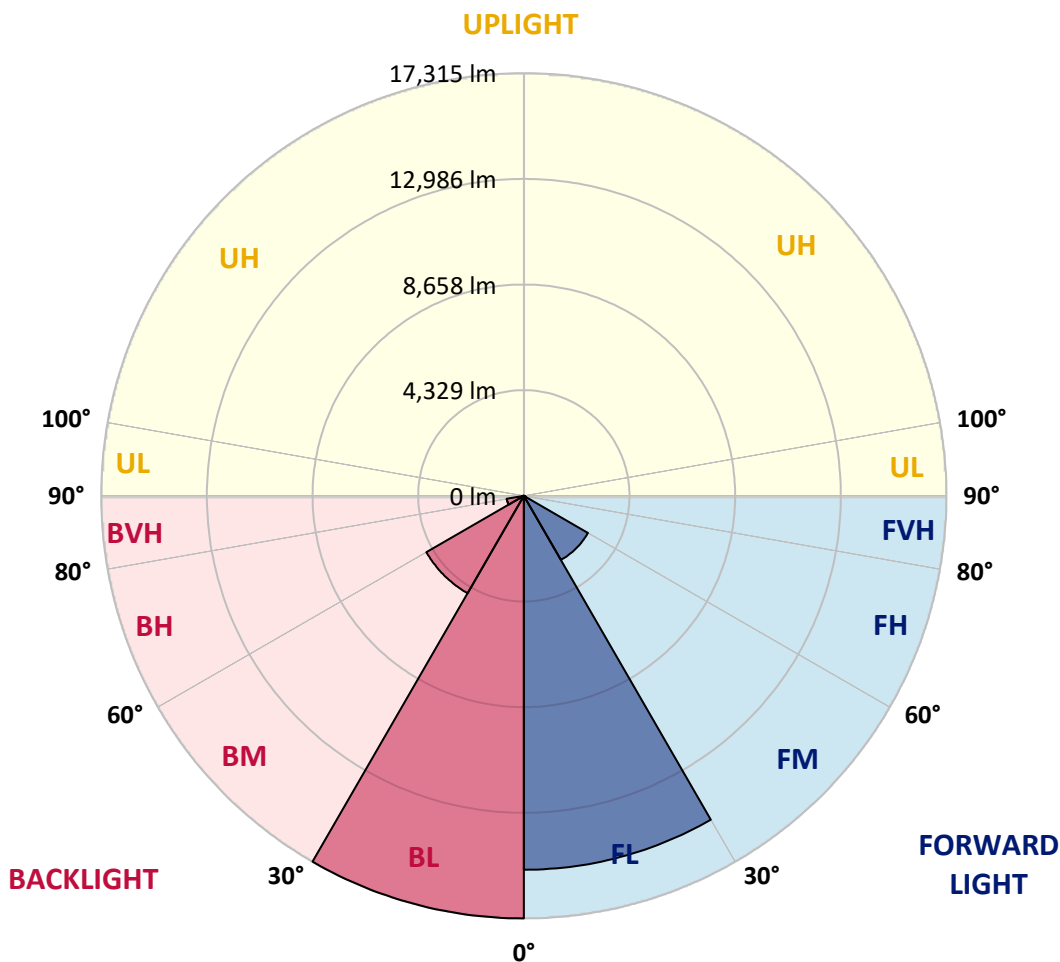
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15320.8	37.2			
FM (30°-60°)	3036.3	7.4			
FH (60°-80°)	73.5	0.2			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	17315.2	42.1	B5		
BM (30°-60°)	4612.3	11.2	B3/5000		
BH (60°-80°)	714.9	1.7	B2/1000		G2/1000
BVH (80°-90°)	79.3	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2
2.5°	56095.6	56285.5	55905.8	56157.3	56351.9	56817.1	56855.0	57016.4	57073.4	57495.8
5°	55032.5	55179.6	54871.1	55208.1	55483.4	55896.3	56214.3	56660.4	56907.3	57405.6
7.5°	53926.6	53959.8	53898.1	54254.1	54667.0	55236.6	55630.5	56214.3	56366.2	57078.1
10°	52588.2	52346.1	52464.8	52986.9	53603.9	54477.2	54747.7	55331.5	55602.0	56328.2
12.5°	50452.4	50575.8	50428.7	51093.1	51605.7	52597.7	52882.5	53471.0	53988.3	54629.1
15°	47443.3	47372.1	47671.1	48188.4	48743.7	49531.6	49992.0	50632.7	51026.7	51691.2
17.5°	40679.9	40922.0	42156.0	43451.7	44590.8	45511.6	46062.1	46593.7	46878.5	47599.9
20°	35131.6	34827.8	34993.9	35724.8	38966.5	40376.1	40955.2	41083.3	41202.0	41771.5
22.5°	28928.2	28828.6	29383.9	30205.0	30973.9	34225.0	35012.9	34713.9	34960.7	35497.0
25°	21481.4	21984.5	22478.1	24053.9	25050.6	26645.3	28140.4	28273.3	28363.4	28700.4
27.5°	17485.1	17309.5	17300.0	17741.4	19212.7	20541.7	21813.7	22107.9	22055.7	22378.5
30°	13745.1	13688.1	13488.8	13593.2	13446.1	14627.9	15225.9	16436.2	16369.7	16379.2
32.5°	9914.9	9701.3	9620.6	9777.2	9625.3	9516.2	10038.3	11405.2	11381.5	11476.4
35°	5999.2	5970.8	6037.2	6174.8	5871.1	5861.6	5970.8	7257.0	7413.6	7565.5
37.5°	3312.9	3284.4	3336.6	3844.4	3744.8	3654.6	3683.1	4361.8	4812.7	4926.6
40°	2183.3	2178.5	2216.5	2306.7	2477.5	2444.3	2458.5	2762.3	3189.5	3289.1
42.5°	1461.8	1466.6	1490.3	1594.7	1618.5	1789.3	1760.8	1832.0	2230.7	2316.2
45°	1167.6	1162.8	1177.1	1129.6	1158.1	1333.7	1352.7	1357.4	1699.1	1751.4
47.5°	920.8	920.8	935.0	873.3	859.1	968.2	1067.9	1082.1	1357.4	1428.6
50°	645.5	645.5	716.7	688.2	721.4	754.6	863.8	878.1	1110.6	1186.6
52.5°	474.6	484.1	493.6	498.4	607.5	602.8	697.7	764.1	840.1	973.0
55°	360.7	370.2	346.5	370.2	450.9	503.1	522.1	617.0	669.2	816.4
57.5°	237.3	261.0	242.1	284.8	303.8	389.2	417.7	507.8	541.1	669.2
60°	33.2	38.0	61.7	199.3	213.6	256.3	322.7	403.4	436.7	545.8
62.5°	4.7	4.7	14.2	33.2	142.4	170.9	242.1	280.0	322.7	408.2
65°	0.0	0.0	4.7	9.5	28.5	99.7	123.4	151.9	223.1	294.3
67.5°	0.0	0.0	4.7	9.5	14.2	33.2	52.2	99.7	128.1	204.1
70°	0.0	0.0	4.7	9.5	14.2	19.0	28.5	38.0	75.9	118.7
72.5°	0.0	0.0	4.7	9.5	14.2	19.0	23.7	28.5	33.2	75.9
75°	0.0	0.0	4.7	9.5	14.2	23.7	28.5	28.5	28.5	33.2
77.5°	0.0	0.0	4.7	9.5	19.0	28.5	33.2	28.5	23.7	23.7
80°	0.0	0.0	4.7	14.2	23.7	33.2	38.0	28.5	19.0	14.2
82.5°	0.0	0.0	4.7	14.2	23.7	33.2	38.0	33.2	19.0	14.2
85°	0.0	0.0	4.7	14.2	19.0	23.7	38.0	33.2	19.0	9.5
87.5°	0.0	0.0	0.0	4.7	4.7	9.5	19.0	14.2	9.5	4.7
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°
57339.2	0°	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2	57339.2
57486.3	2.5°	57913.5	58127.0	58502.0	58606.4	58929.1	58558.9	58354.9	58373.8	57932.4
57343.9	5°	57913.5	58402.3	59057.3	59370.5	59607.9	59588.9	59536.7	59403.8	59081.0
57059.1	7.5°	57761.6	58558.9	59460.7	59878.4	60163.2	60139.4	60258.1	60044.5	59650.6
56551.3	10°	57272.7	57965.7	59076.3	59418.0	59878.4	59887.9	59740.8	59783.5	59081.0
54695.5	12.5°	55734.9	56276.0	57249.0	57638.2	58198.2	58288.4	58127.0	58065.3	57400.9
51653.2	15°	52759.1	53072.3	54050.0	54439.2	54994.5	54918.6	55080.0	55013.5	54429.7
47542.9	17.5°	48406.8	48506.4	49531.6	49859.1	50381.2	50585.3	50343.2	50651.7	50148.6
41871.2	20°	42165.5	42701.8	43855.1	44358.2	44662.0	45027.4	44709.5	45055.9	44467.4
34989.2	22.5°	35834.0	36152.0	37196.2	37922.3	38487.1	38558.3	38439.7	38681.7	37889.1
28923.5	25°	28918.8	29445.6	30271.4	31220.7	31776.0	32117.7	31809.2	31965.8	31837.7
22430.7	27.5°	22810.4	23280.2	23902.0	24609.2	25444.5	25890.7	25643.9	25909.6	25283.1
16725.7	30°	16739.9	16977.3	17679.7	18429.6	19345.6	19886.7	19910.4	20181.0	19810.7
11718.4	32.5°	11803.9	12012.7	12444.6	12943.0	13816.3	14419.0	14324.1	14362.1	14134.3
7636.7	35°	7674.6	7954.7	8263.2	8500.5	9027.3	9691.8	9639.6	9592.1	9435.5
5021.5	37.5°	5130.7	5239.8	5410.7	5624.3	5966.0	6383.7	6521.3	6350.5	6284.0
3388.8	40°	3469.5	3659.3	3773.2	3934.6	4096.0	4447.2	4542.1	4508.9	4442.5
2373.1	42.5°	2463.3	2610.4	2752.8	2909.4	2994.9	3213.2	3398.3	3346.1	3317.6
1803.6	45°	1870.0	2002.9	2169.0	2287.7	2373.1	2501.3	2676.9	2695.9	2653.1
1447.6	47.5°	1499.8	1618.5	1751.4	1898.5	1998.2	2078.8	2230.7	2287.7	2259.2
1219.8	50°	1272.0	1362.2	1490.3	1637.4	1746.6	1817.8	1950.7	2012.4	1993.4
1020.4	52.5°	1082.1	1191.3	1310.0	1433.4	1566.3	1637.4	1760.8	1851.0	1836.8
844.8	55°	897.0	1039.4	1162.8	1286.2	1438.1	1509.3	1618.5	1737.1	1713.4
716.7	57.5°	783.1	901.8	1029.9	1148.6	1310.0	1404.9	1504.6	1628.0	1623.2
588.5	60°	655.0	773.6	916.0	1015.7	1186.6	1319.5	1409.6	1537.8	1547.3
446.1	62.5°	522.1	669.2	778.4	916.0	1072.6	1229.3	1314.7	1442.9	1490.3
341.7	65°	389.2	550.6	674.0	811.6	958.7	1134.3	1210.3	1338.4	1385.9
246.8	67.5°	289.5	412.9	569.5	688.2	854.3	1006.2	1096.4	1215.0	1248.3
147.1	70°	218.3	318.0	474.6	579.0	749.9	873.3	963.5	1053.7	1096.4
99.7	72.5°	128.1	237.3	375.0	498.4	645.5	749.9	816.4	887.5	916.0
47.5	75°	90.2	180.4	294.3	412.9	522.1	607.5	669.2	730.9	759.4
23.7	77.5°	47.5	132.9	232.6	332.2	408.2	479.4	541.1	588.5	607.5
19.0	80°	28.5	94.9	189.8	261.0	313.3	375.0	436.7	469.9	465.1
14.2	82.5°	19.0	75.9	137.6	189.8	227.8	275.3	318.0	341.7	341.7
9.5	85°	14.2	52.2	94.9	147.1	151.9	189.8	199.3	223.1	227.8
9.5	87.5°	9.5	33.2	52.2	85.4	80.7	99.7	104.4	118.7	128.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
57339.2
57576.5
59185.4
59740.8
58876.9
57249.0
54614.8
50025.2
44419.9
37780.0
31757.0
25444.5
19877.2
14262.4
9297.9
6269.8
4452.0
3293.9
2648.4
2245.0
1988.7
1827.3
1713.4
1618.5
1547.3
1485.6
1381.2
1248.3
1086.9
906.5
749.9
602.8
460.4
337.0
223.1
123.4
0.0

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