

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: P638629

Luminaire Tested: **EPH-VN-08-E-735-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638629
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-735-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65129.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

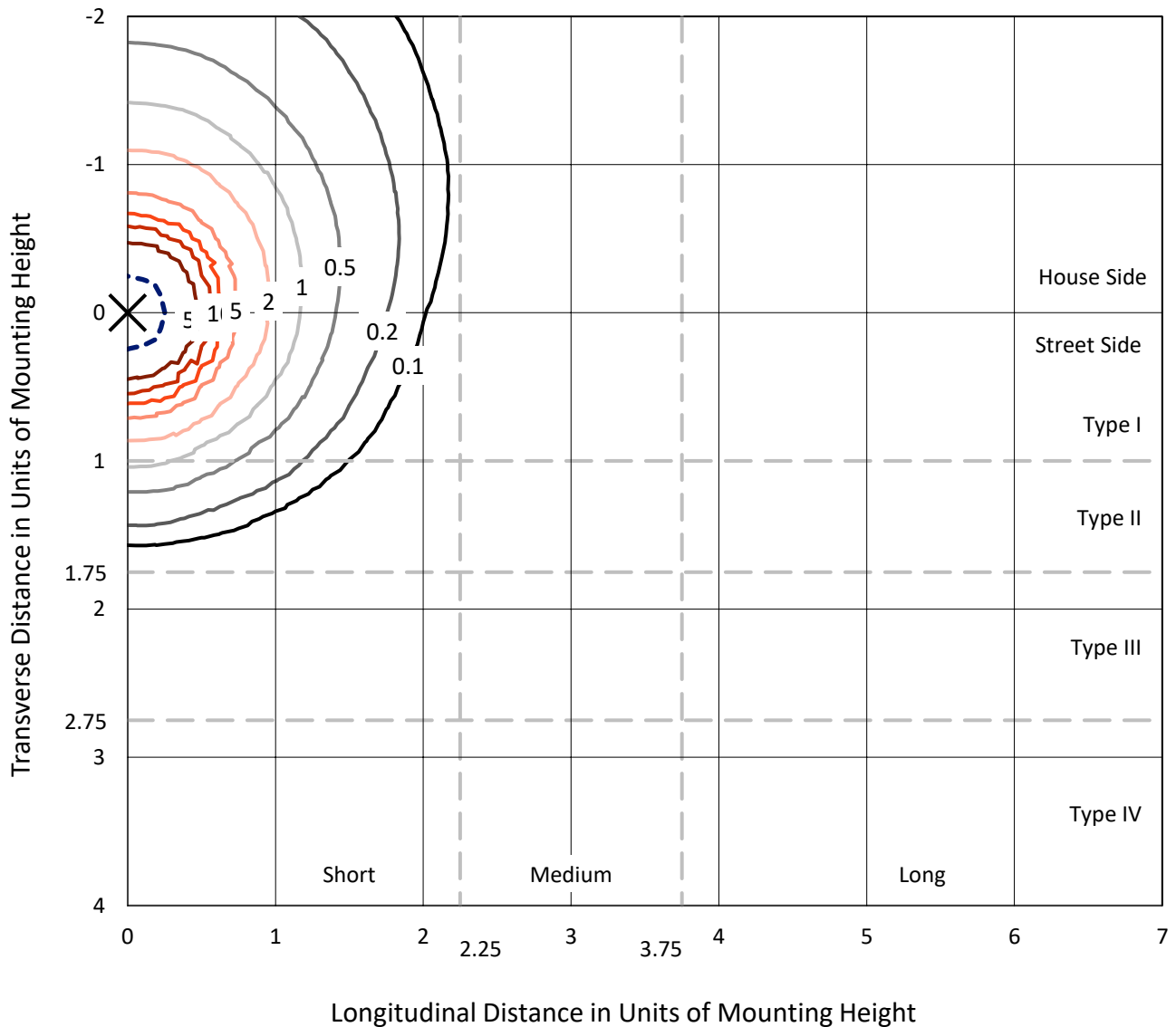
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

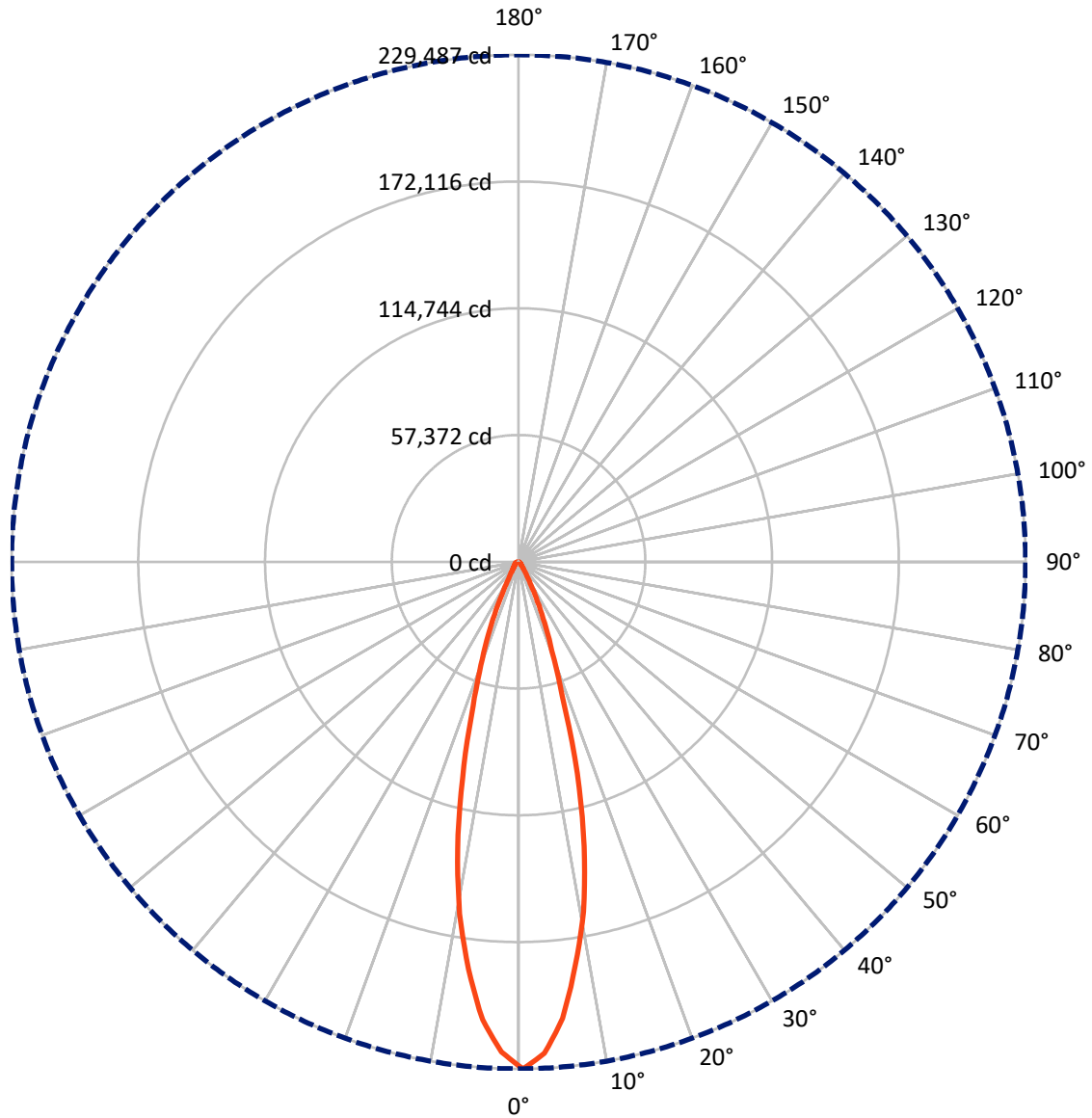
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 573.7 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	34340.5	0.0	34340.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	30788.7	0.0	30788.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	65129.2	0.0	65129.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18521.7	28.4
10°-20°	28050.9	43.1
20°-30°	11837.6	18.2
30°-40°	3087.4	4.7
40°-50°	1561.5	2.4
50°-60°	1020.7	1.6
60°-70°	611.5	0.9
70°-80°	321.7	0.5
80°-90°	116.2	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°	65129.2	100.0
0°-180°	65129.2	100.0

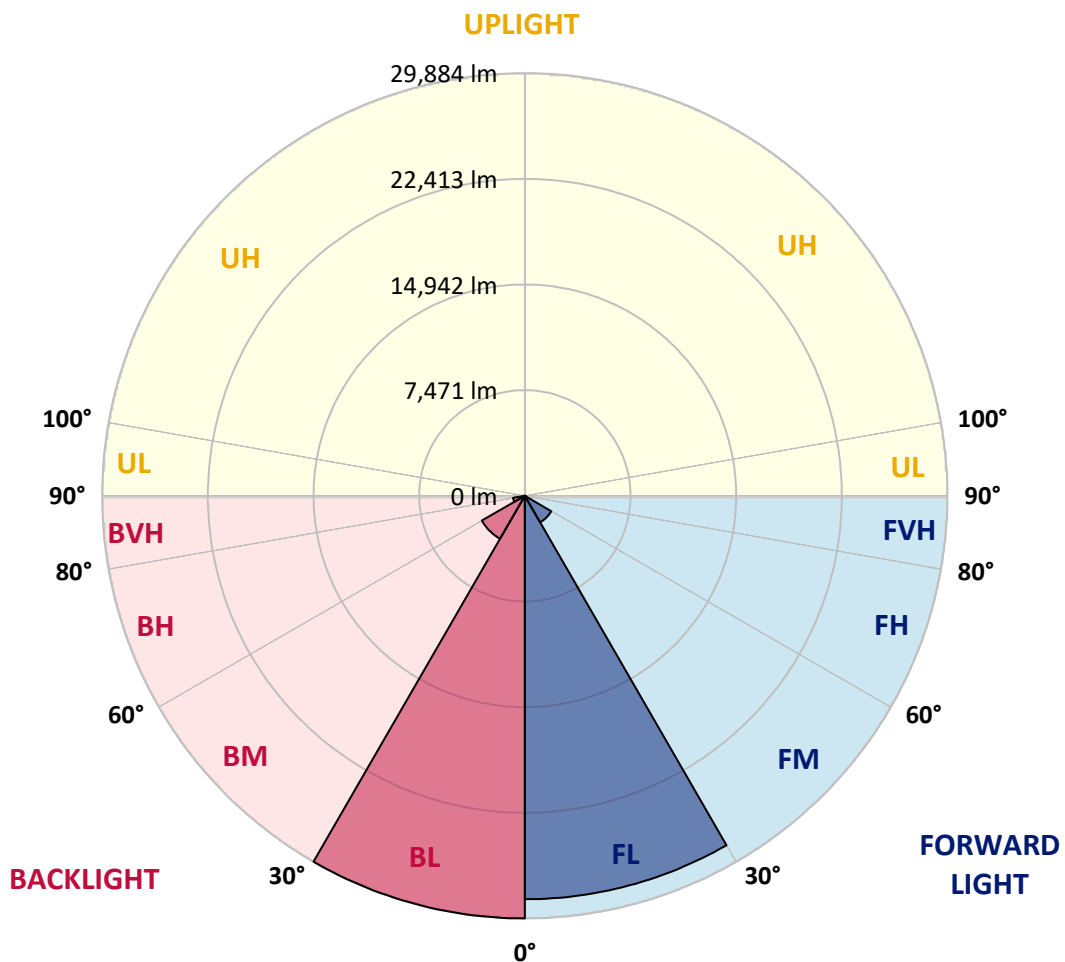


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	28526.2	43.8			
FM (30°-60°)	2160.4	3.3			
FH (60°-80°)	88.0	0.1			G0/660
FVH (80°-90°)	14.1	0.0			G1/100
BL (0°-30°)	29884.1	45.9	B5		
BM (30°-60°)	3509.2	5.4	B3/5000		
BH (60°-80°)	845.2	1.3	B2/1000		G1/1800
BVH (80°-90°)	102.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4
2.5°	222802.3	222926.6	222465.8	223460.5	222685.2	224762.4	223731.2	225340.3	224799.0	225698.7
5°	207588.9	207384.1	207252.5	208795.8	208349.6	210580.4	209154.1	208686.0	210134.2	209870.9
7.5°	184615.3	185156.6	184849.4	185251.7	185478.4	188023.7	188828.3	188199.2	188221.2	188586.9
10°	161063.9	160266.7	159133.0	159886.3	161480.8	162592.6	162146.4	163068.0	162863.2	163733.6
12.5°	132085.4	132714.4	132078.1	131405.2	134191.9	133884.7	134660.0	135164.7	133899.3	136715.3
15°	99493.8	99822.9	100598.2	100547.0	102690.0	103121.6	103019.2	103553.1	102565.7	103033.8
17.5°	63918.0	65029.7	67114.2	70639.6	74603.9	75064.7	74947.6	74508.8	74033.4	73506.8
20°	42933.8	42816.8	43570.1	44601.4	52807.8	54980.1	54914.3	53539.2	51549.8	51169.5
22.5°	30075.6	30295.0	30192.6	31216.6	32913.5	38903.7	38165.0	36768.0	36117.1	35692.8
25°	19784.7	19704.2	20216.2	20523.4	21978.9	22710.3	25299.5	24780.2	23778.2	23887.9
27.5°	12061.0	12163.4	12353.5	12616.8	13648.1	13414.1	14891.5	15089.0	14767.2	14423.4
30°	7401.9	7475.0	7628.6	7818.8	8177.2	7921.2	8330.8	9040.2	8923.2	8681.8
32.5°	5024.8	5032.1	5141.8	5215.0	5171.1	4929.7	5061.4	5734.3	5748.9	5726.9
35°	3613.2	3613.2	3715.6	3774.1	3649.7	3452.3	3474.2	3891.1	4074.0	4110.5
37.5°	2494.1	2501.4	2677.0	2852.5	2713.5	2662.3	2574.6	2852.5	3145.1	3188.9
40°	1894.4	1887.0	1974.8	2106.5	2121.1	2026.0	2055.3	2230.8	2530.7	2567.3
42.5°	1536.0	1543.3	1587.2	1572.5	1579.8	1704.2	1748.1	1828.5	2106.5	2172.3
45°	1294.6	1301.9	1323.9	1250.7	1221.5	1411.6	1470.1	1514.0	1748.1	1828.5
47.5°	1067.9	1082.5	1104.4	1024.0	1009.3	1133.7	1236.1	1280.0	1484.8	1572.5
50°	768.0	782.6	863.1	819.2	863.1	892.3	1031.3	1097.1	1236.1	1353.1
52.5°	555.9	570.5	592.4	599.8	709.5	724.1	826.5	928.9	994.7	1126.4
55°	438.8	453.5	438.8	424.2	519.3	599.8	636.3	746.0	797.2	950.8
57.5°	248.7	263.3	285.3	329.1	343.8	460.8	497.4	592.4	636.3	782.6
60°	43.9	51.2	80.5	197.5	241.4	292.6	373.0	453.5	512.0	614.4
62.5°	7.3	7.3	14.6	43.9	139.0	204.8	270.6	321.8	373.0	468.1
65°	0.0	0.0	7.3	14.6	36.6	117.0	146.3	190.2	256.0	336.4
67.5°	0.0	0.0	7.3	14.6	21.9	43.9	65.8	117.0	146.3	226.7
70°	0.0	0.0	7.3	14.6	21.9	29.3	36.6	51.2	87.8	139.0
72.5°	0.0	0.0	7.3	14.6	21.9	29.3	36.6	43.9	43.9	87.8
75°	0.0	0.0	7.3	14.6	21.9	36.6	43.9	43.9	36.6	36.6
77.5°	0.0	0.0	7.3	14.6	29.3	43.9	51.2	43.9	29.3	29.3
80°	0.0	0.0	14.6	21.9	36.6	51.2	65.8	51.2	29.3	14.6
82.5°	0.0	0.0	14.6	29.3	36.6	58.5	80.5	65.8	29.3	14.6
85°	0.0	0.0	7.3	21.9	43.9	58.5	80.5	58.5	29.3	7.3
87.5°	0.0	0.0	7.3	7.3	14.6	21.9	43.9	36.6	14.6	7.3
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°
229487.4	0°	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4	229487.4
223994.5	2.5°	225281.8	226452.0	226693.4	226371.6	226839.7	225998.5	225354.9	223687.3	222685.2
209790.5	5°	211143.6	210968.0	212189.5	212591.8	212540.6	211896.9	210997.3	209988.0	209007.9
187877.4	7.5°	189047.7	189274.4	190386.2	191095.6	190737.2	189932.7	189311.0	188550.3	187892.0
164048.1	10°	165547.5	163989.5	165371.9	165371.9	166330.1	164055.4	164267.5	162351.2	162439.0
136664.1	12.5°	137132.2	137695.3	137922.1	138573.0	137454.0	136247.1	134769.7	134477.1	133562.9
102141.5	15°	103611.6	105220.7	103838.3	106200.8	105059.8	103801.8	103575.0	101307.7	102024.5
74084.6	17.5°	73718.9	75496.2	76052.1	77405.2	76366.6	75620.5	74677.0	73989.5	73938.3
51864.3	20°	52273.9	54058.6	54468.1	56091.9	55974.8	55740.8	54943.6	54073.2	53129.7
35305.2	22.5°	35839.1	37294.6	38655.0	40842.0	40805.4	40117.9	40037.4	38808.6	38830.6
23851.3	25°	24100.0	25160.5	25482.3	27720.5	27969.1	27896.0	27479.1	26338.1	26769.6
14569.7	27.5°	14584.3	15513.2	16603.0	17392.9	18139.0	18022.0	17605.1	16968.7	16690.8
8755.0	30°	8989.0	9405.9	9808.2	10759.0	11205.2	11439.3	11241.8	10649.3	10693.2
5763.5	32.5°	5887.9	6238.9	6531.5	7131.3	7365.3	7796.8	7716.4	7592.0	7445.8
4147.1	35°	4293.4	4549.4	4746.9	5024.8	5324.7	5690.4	5748.9	5697.7	5639.2
3203.6	37.5°	3276.7	3540.0	3766.8	3883.8	4117.8	4403.1	4564.0	4556.7	4512.8
2611.1	40°	2662.3	2859.8	3064.6	3218.2	3379.1	3591.2	3788.7	3810.6	3810.6
2194.2	42.5°	2223.5	2391.7	2596.5	2757.4	2874.4	3071.9	3276.7	3291.3	3276.7
1857.8	45°	1901.7	2047.9	2245.4	2435.6	2530.7	2677.0	2874.4	2918.3	2889.1
1594.5	47.5°	1653.0	1784.6	1952.9	2157.7	2260.1	2391.7	2574.6	2625.8	2618.4
1375.1	50°	1418.9	1572.5	1740.8	1909.0	2040.6	2165.0	2340.5	2399.0	2377.1
1170.3	52.5°	1250.7	1389.7	1536.0	1718.8	1872.4	1982.1	2121.1	2223.5	2194.2
987.4	55°	1045.9	1214.1	1367.7	1521.3	1711.5	1828.5	1960.2	2084.5	2055.3
833.8	57.5°	906.9	1045.9	1221.5	1360.4	1550.6	1689.6	1821.2	1952.9	1945.6
680.2	60°	760.7	906.9	1075.2	1221.5	1397.0	1550.6	1682.2	1828.5	1843.2
512.0	62.5°	599.8	775.3	921.6	1089.8	1265.3	1433.6	1550.6	1696.9	1718.8
387.6	65°	453.5	636.3	797.2	958.1	1133.7	1316.5	1418.9	1543.3	1565.2
285.3	67.5°	336.4	490.0	680.2	826.5	1009.3	1184.9	1280.0	1382.4	1418.9
175.5	70°	256.0	373.0	570.5	709.5	899.6	1038.6	1141.0	1228.8	1258.0
117.0	72.5°	160.9	292.6	460.8	607.1	775.3	899.6	972.8	1024.0	1067.9
65.8	75°	109.7	226.7	373.0	519.3	643.6	738.7	804.6	848.4	885.0
29.3	77.5°	65.8	175.5	307.2	431.5	512.0	585.1	651.0	680.2	702.2
21.9	80°	36.6	131.7	256.0	351.1	402.3	453.5	504.7	541.2	555.9
14.6	82.5°	21.9	102.4	204.8	270.6	292.6	343.8	395.0	416.9	416.9
7.3	85°	14.6	73.1	139.0	197.5	212.1	248.7	263.3	277.9	292.6
7.3	87.5°	14.6	43.9	87.8	109.7	117.0	131.7	139.0	153.6	168.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
229487.4
221946.5
207910.8
185661.2
161583.2
132729.1
101307.7
72577.9
52720.1
38406.4
26089.4
16449.4
10503.1
7394.6
5617.2
4490.9
3766.8
3262.1
2889.1
2603.8
2362.5
2186.9
2069.9
1952.9
1850.5
1733.4
1587.2
1433.6
1272.7
1060.5
877.7
694.8
541.2
409.6
285.3
160.9
0.0

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