

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: P638653

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

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638653
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-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: 42261.7 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

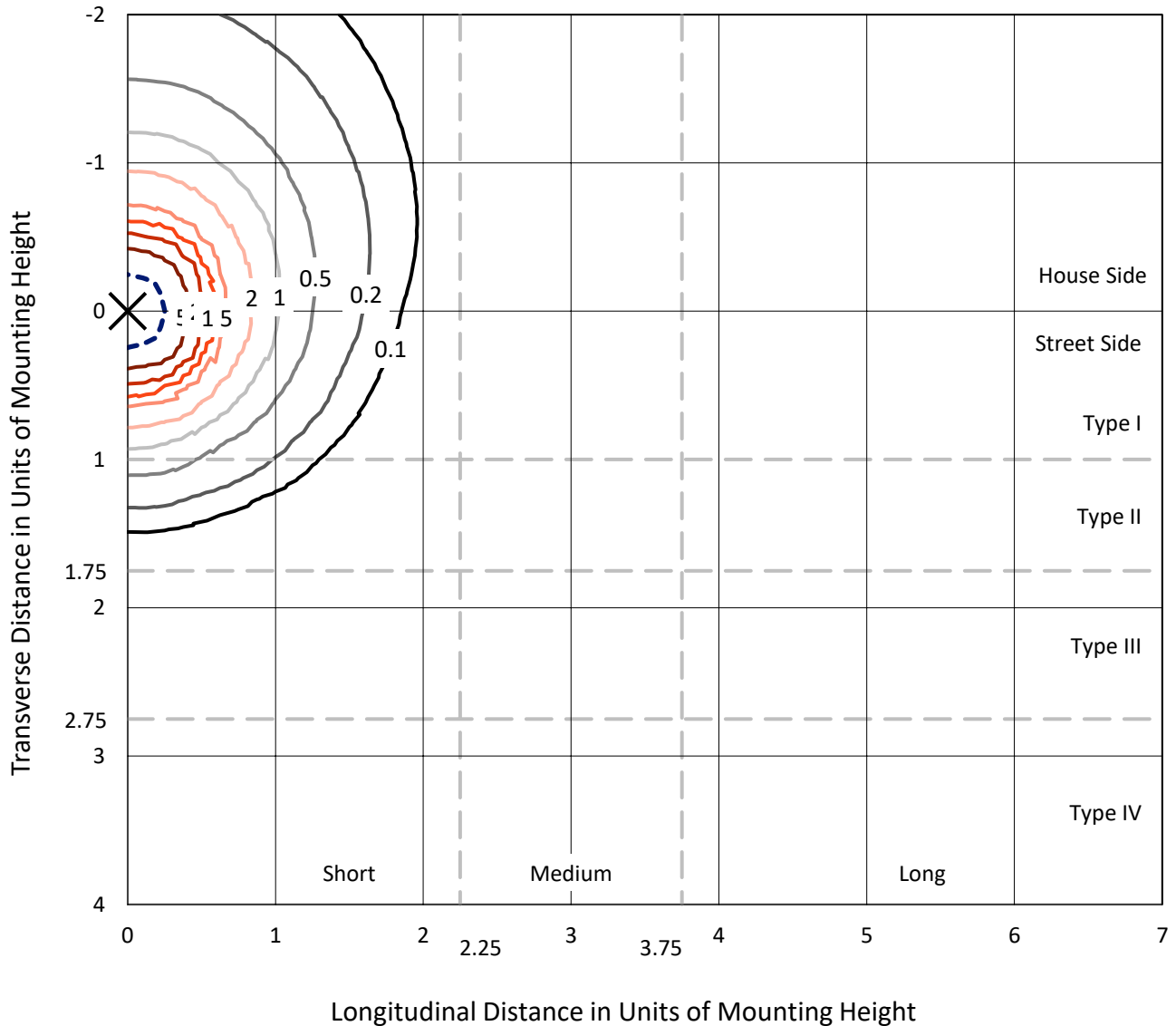
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

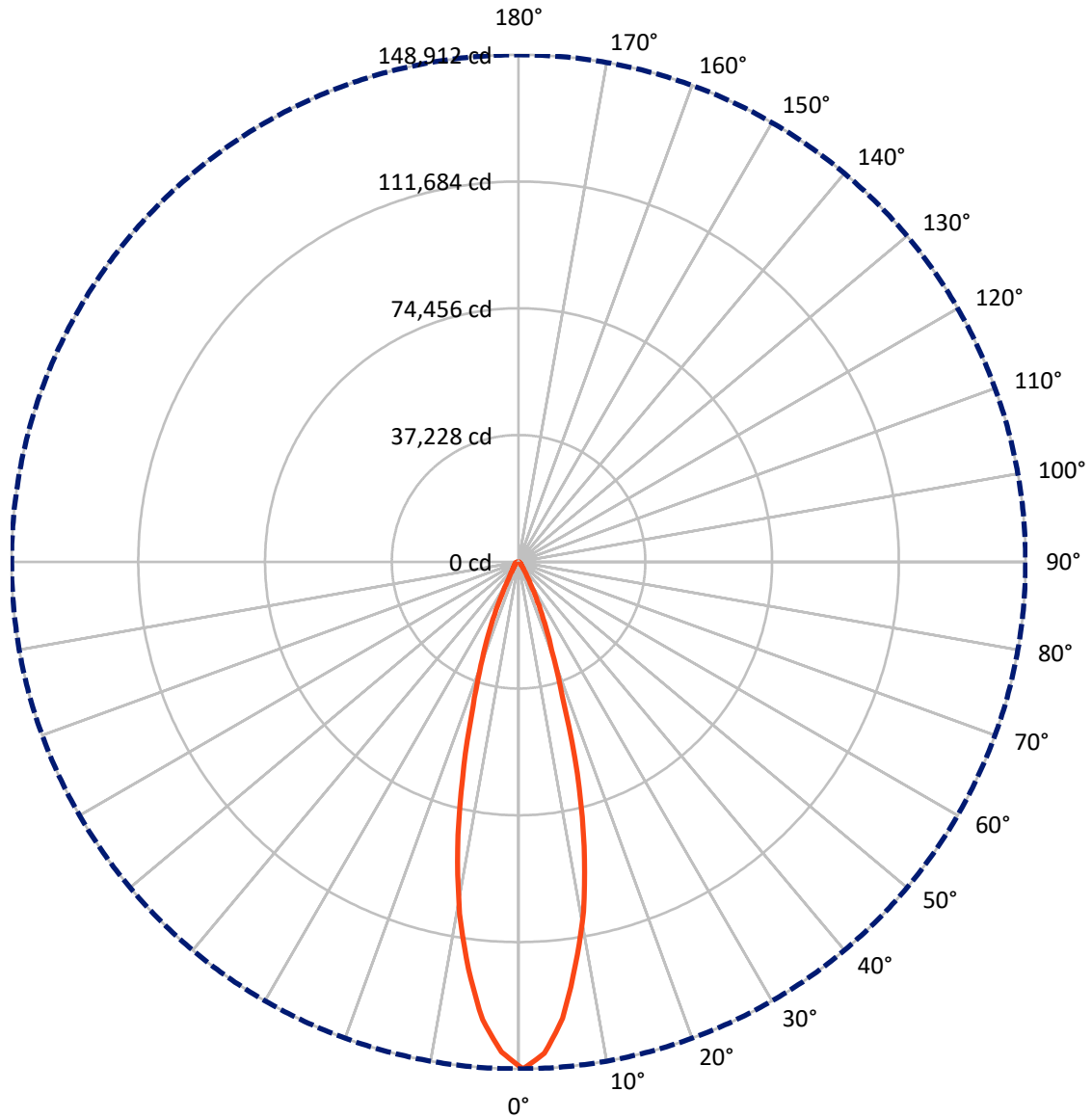
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 372.3 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	22283.2	0.0	22283.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	19978.5	0.0	19978.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	42261.7	0.0	42261.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12018.5	28.4
10°-20°	18202.0	43.1
20°-30°	7681.3	18.2
30°-40°	2003.4	4.7
40°-50°	1013.3	2.4
50°-60°	662.3	1.6
60°-70°	396.8	0.9
70°-80°	208.7	0.5
80°-90°	75.4	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°	42261.7	100.0
0°-180°	42261.7	100.0

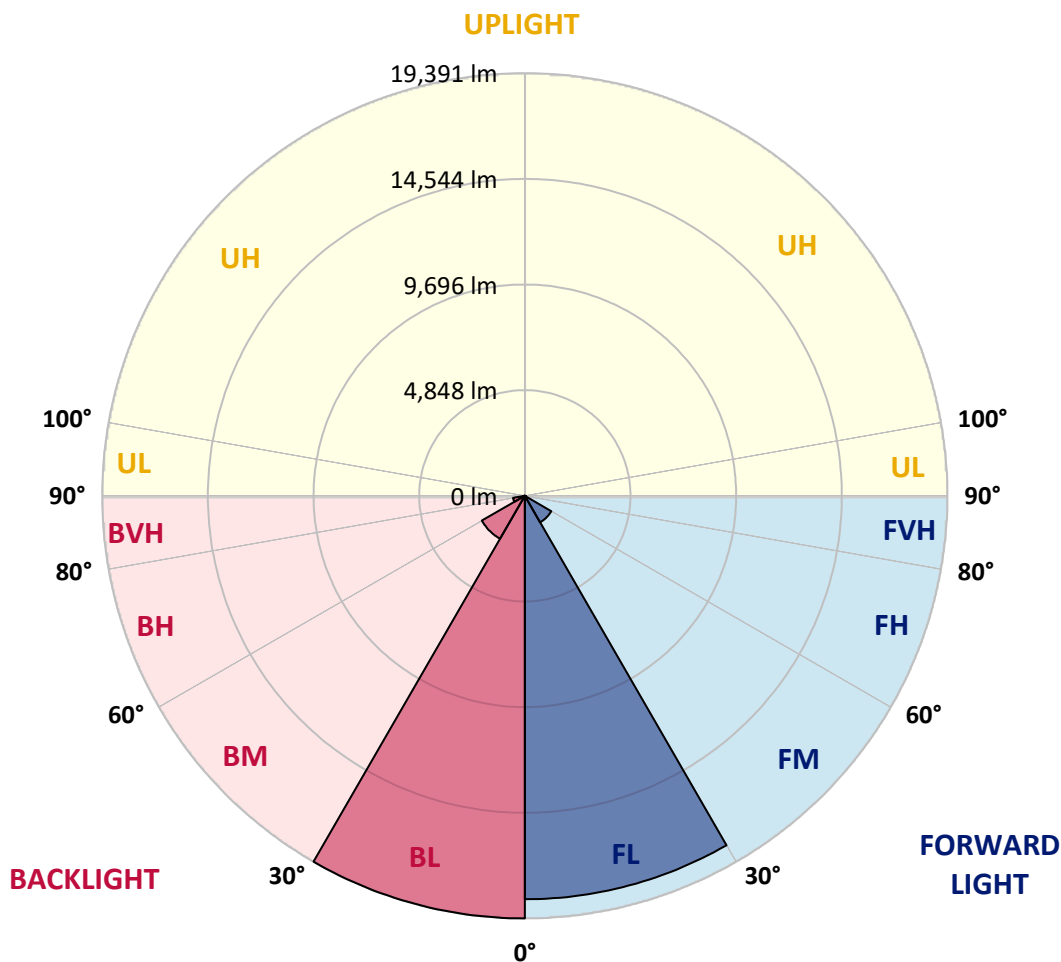


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18510.4	43.8			
FM (30°-60°)	1401.8	3.3			
FH (60°-80°)	57.1	0.1			G0/660
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	19391.5	45.9	B5		
BM (30°-60°)	2277.1	5.4	B2/2500		
BH (60°-80°)	548.4	1.3	B2/1000		G0/660
BVH (80°-90°)	66.2	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°	148912.0	148912.0	148912.0	148912.0	148912.0	148912.0	148912.0	148912.0	148912.0	148912.0
2.5°	144574.1	144654.8	144355.8	145001.3	144498.2	145846.1	145176.9	146221.0	145869.8	146453.6
5°	134702.3	134569.4	134484.0	135485.4	135195.9	136643.5	135718.0	135414.2	136354.0	136183.1
7.5°	119795.0	120146.2	119946.9	120207.9	120355.0	122006.7	122528.7	122120.6	122134.8	122372.1
10°	104512.7	103995.4	103259.8	103748.6	104783.3	105504.6	105215.1	105813.1	105680.3	106245.0
12.5°	85708.9	86117.0	85704.1	85267.5	87075.7	86876.4	87379.5	87707.0	86885.9	88713.1
15°	64560.5	64774.1	65277.1	65243.9	66634.5	66914.5	66848.1	67194.5	66553.8	66857.6
17.5°	41475.7	42197.1	43549.7	45837.3	48409.7	48708.7	48632.8	48348.0	48039.5	47697.8
20°	27859.3	27783.4	28272.2	28941.4	34266.5	35676.0	35633.3	34741.1	33450.1	33203.4
22.5°	19515.7	19658.1	19591.7	20256.1	21357.2	25244.2	24764.9	23858.4	23436.0	23160.7
25°	12838.1	12785.9	13118.1	13317.4	14261.9	14736.5	16416.6	16079.6	15429.4	15500.6
27.5°	7826.2	7892.7	8016.1	8186.9	8856.1	8704.3	9663.0	9791.1	9582.3	9359.2
30°	4803.0	4850.5	4950.1	5073.5	5306.1	5140.0	5405.7	5866.1	5790.2	5633.6
32.5°	3260.5	3265.3	3336.5	3383.9	3355.5	3198.8	3284.3	3720.9	3730.4	3716.2
35°	2344.5	2344.5	2411.0	2449.0	2368.3	2240.1	2254.4	2524.9	2643.5	2667.3
37.5°	1618.4	1623.1	1737.1	1851.0	1760.8	1727.6	1670.6	1851.0	2040.8	2069.3
40°	1229.2	1224.5	1281.4	1366.9	1376.4	1314.7	1333.6	1447.5	1642.1	1665.9
42.5°	996.7	1001.4	1029.9	1020.4	1025.1	1105.8	1134.3	1186.5	1366.9	1409.6
45°	840.1	844.8	859.0	811.6	792.6	916.0	954.0	982.4	1134.3	1186.5
47.5°	692.9	702.4	716.7	664.4	655.0	735.6	802.1	830.6	963.4	1020.4
50°	498.3	507.8	560.0	531.6	560.0	579.0	669.2	711.9	802.1	878.0
52.5°	360.7	370.2	384.4	389.2	460.4	469.9	536.3	602.7	645.5	730.9
55°	284.8	294.3	284.8	275.3	337.0	389.2	412.9	484.1	517.3	617.0
57.5°	161.4	170.9	185.1	213.6	223.1	299.0	322.7	384.4	412.9	507.8
60°	28.5	33.2	52.2	128.1	156.6	189.8	242.0	294.3	332.2	398.7
62.5°	4.7	4.7	9.5	28.5	90.2	132.9	175.6	208.8	242.0	303.7
65°	0.0	0.0	4.7	9.5	23.7	75.9	94.9	123.4	166.1	218.3
67.5°	0.0	0.0	4.7	9.5	14.2	28.5	42.7	75.9	94.9	147.1
70°	0.0	0.0	4.7	9.5	14.2	19.0	23.7	33.2	57.0	90.2
72.5°	0.0	0.0	4.7	9.5	14.2	19.0	23.7	28.5	28.5	57.0
75°	0.0	0.0	4.7	9.5	14.2	23.7	28.5	28.5	23.7	23.7
77.5°	0.0	0.0	4.7	9.5	19.0	28.5	33.2	28.5	19.0	19.0
80°	0.0	0.0	9.5	14.2	23.7	33.2	42.7	33.2	19.0	9.5
82.5°	0.0	0.0	9.5	19.0	23.7	38.0	52.2	42.7	19.0	9.5
85°	0.0	0.0	4.7	14.2	28.5	38.0	52.2	38.0	19.0	4.7
87.5°	0.0	0.0	4.7	4.7	9.5	14.2	28.5	23.7	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°
<i>148912.0</i>	0°	<i>148912.0</i>	<i>148912.0</i>	<i>148912.0</i>	<i>148912.0</i>	<i>148912.0</i>	<i>148912.0</i>	<i>148912.0</i>	<i>148912.0</i>	<i>148912.0</i>
145347.7	2.5°	146183.0	146942.4	147099.0	146890.2	147193.9	146648.1	146230.5	145148.4	144498.2
136130.9	5°	137008.9	136895.0	137687.6	137948.6	137915.4	137497.8	136914.0	136259.0	135623.1
121911.7	7.5°	122671.1	122818.2	123539.6	124000.0	123767.4	123245.4	122842.0	122348.4	121921.2
106449.1	10°	107422.1	106411.1	107308.1	107308.1	107929.9	106453.9	106591.5	105348.0	105405.0
88679.9	12.5°	88983.7	89349.1	89496.2	89918.6	89192.5	88409.4	87450.7	87260.8	86667.6
66278.6	15°	67232.5	68276.6	67379.6	68912.6	68172.2	67355.9	67208.8	65737.5	66202.6
48072.7	17.5°	47835.4	48988.7	49349.4	50227.4	49553.5	49069.4	48457.2	48011.0	47977.8
33654.2	20°	33920.0	35078.0	35343.8	36397.4	36321.5	36169.6	35652.3	35087.5	34475.3
22909.2	22.5°	23255.6	24200.1	25082.9	26501.9	26478.2	26032.1	25979.9	25182.5	25196.8
15476.9	25°	15638.2	16326.4	16535.2	17987.5	18148.9	18101.4	17830.9	17090.5	17370.5
9454.1	27.5°	9463.6	10066.4	10773.5	11286.1	11770.2	11694.3	11423.7	11010.8	10830.5
5681.0	30°	5832.9	6103.4	6364.5	6981.4	7270.9	7422.8	7294.7	6910.2	6938.7
3739.9	32.5°	3820.6	4048.4	4238.2	4627.4	4779.3	5059.3	5007.1	4926.4	4831.5
2691.0	35°	2785.9	2952.0	3080.2	3260.5	3455.1	3692.4	3730.4	3697.2	3659.2
2078.8	37.5°	2126.2	2297.1	2444.2	2520.2	2672.0	2857.1	2961.5	2956.8	2928.3
1694.3	40°	1727.6	1855.7	1988.6	2088.3	2192.7	2330.3	2458.5	2472.7	2472.7
1423.8	42.5°	1442.8	1552.0	1684.8	1789.3	1865.2	1993.3	2126.2	2135.7	2126.2
1205.5	45°	1234.0	1328.9	1457.0	1580.4	1642.1	1737.1	1865.2	1893.7	1874.7
1034.6	47.5°	1072.6	1158.0	1267.2	1400.1	1466.5	1552.0	1670.6	1703.8	1699.1
892.3	50°	920.7	1020.4	1129.6	1238.7	1324.1	1404.8	1518.7	1556.7	1542.5
759.4	52.5°	811.6	901.7	996.7	1115.3	1215.0	1286.2	1376.4	1442.8	1423.8
640.7	55°	678.7	787.8	887.5	987.2	1110.6	1186.5	1271.9	1352.6	1333.6
541.0	57.5°	588.5	678.7	792.6	882.8	1006.2	1096.3	1181.8	1267.2	1262.4
441.4	60°	493.6	588.5	697.7	792.6	906.5	1006.2	1091.6	1186.5	1196.0
332.2	62.5°	389.2	503.1	598.0	707.2	821.1	930.2	1006.2	1101.1	1115.3
251.5	65°	294.3	412.9	517.3	621.7	735.6	854.3	920.7	1001.4	1015.7
185.1	67.5°	218.3	318.0	441.4	536.3	655.0	768.9	830.6	897.0	920.7
113.9	70°	166.1	242.0	370.2	460.4	583.8	673.9	740.4	797.3	816.3
75.9	72.5°	104.4	189.8	299.0	393.9	503.1	583.8	631.2	664.4	692.9
42.7	75°	71.2	147.1	242.0	337.0	417.7	479.4	522.1	550.5	574.3
19.0	77.5°	42.7	113.9	199.3	280.0	332.2	379.7	422.4	441.4	455.6
14.2	80°	23.7	85.4	166.1	227.8	261.0	294.3	327.5	351.2	360.7
9.5	82.5°	14.2	66.4	132.9	175.6	189.8	223.1	256.3	270.5	270.5
4.7	85°	9.5	47.5	90.2	128.1	137.6	161.4	170.9	180.3	189.8
4.7	87.5°	9.5	28.5	57.0	71.2	75.9	85.4	90.2	99.7	109.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
148912.0
144018.8
134911.2
120473.7
104849.7
86126.5
65737.5
47095.0
34209.5
24921.5
16929.2
10673.9
6815.3
4798.3
3645.0
2914.1
2444.2
2116.7
1874.7
1689.6
1533.0
1419.1
1343.1
1267.2
1200.8
1124.8
1029.9
930.2
825.8
688.2
569.5
450.9
351.2
265.8
185.1
104.4
0.0

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