

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: P638601

Luminaire Tested: **EPH-VN-04-E-935-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638601
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-935-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23095 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

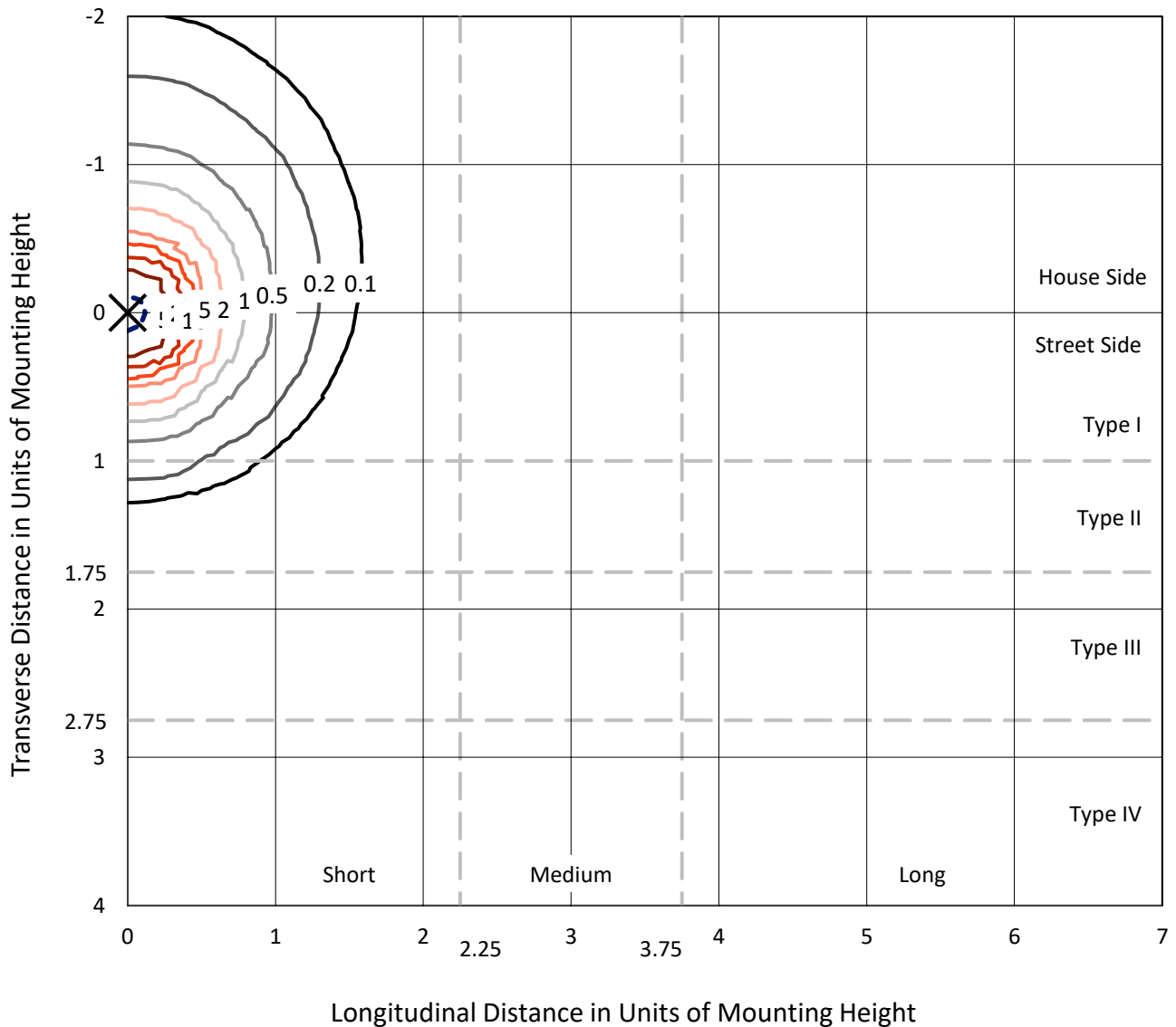
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

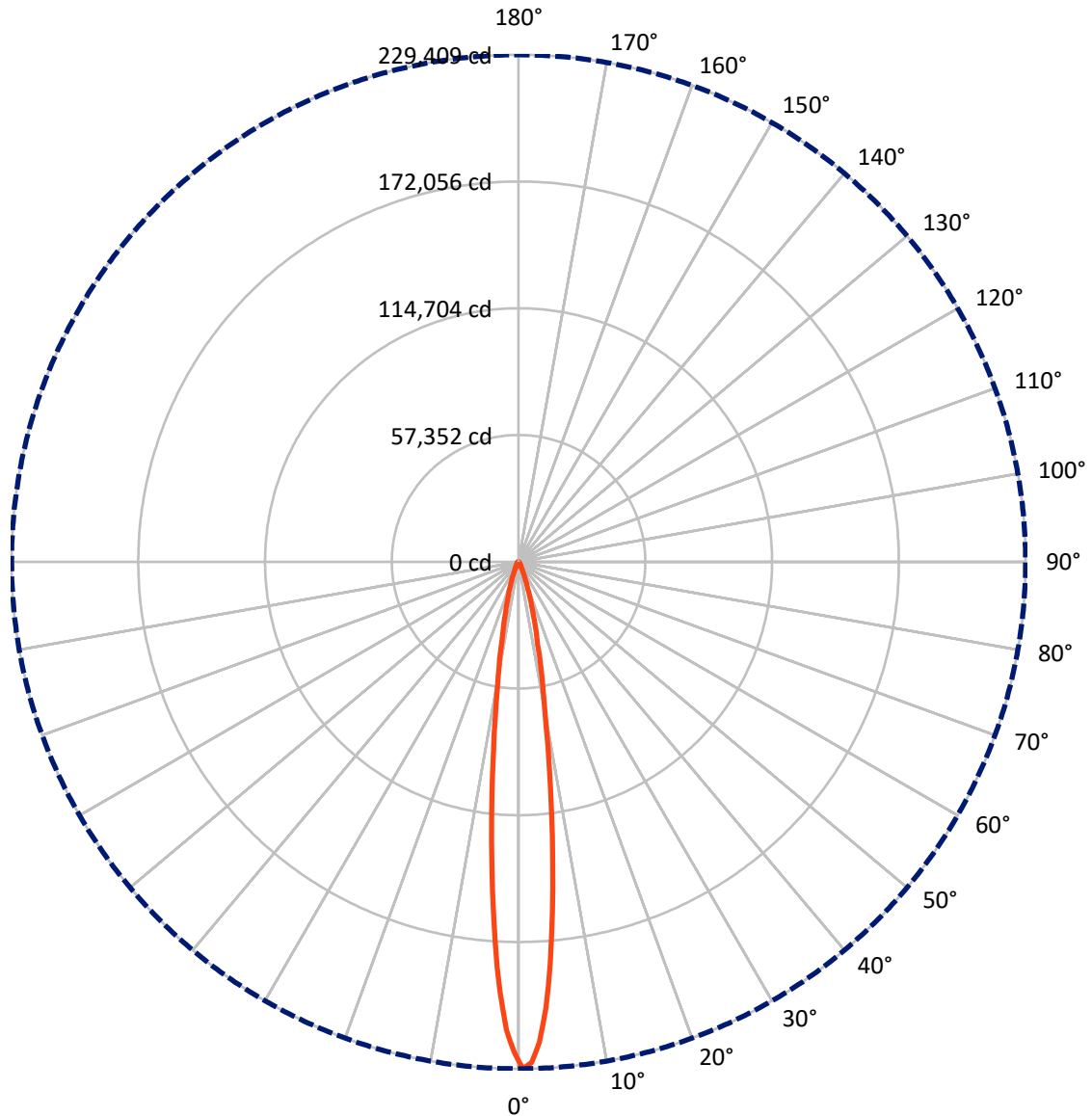
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 573.5 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	11828.8	0.0	11828.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	11266.2	0.0	11266.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	23095.0	0.0	23095.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11659.1	50.5
10°-20°	7464.1	32.3
20°-30°	2243.6	9.7
30°-40°	730.5	3.2
40°-50°	425.0	1.8
50°-60°	282.3	1.2
60°-70°	169.9	0.7
70°-80°	87.3	0.4
80°-90°	33.2	0.1
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°	23095.0	100.0
0°-180°	23095.0	100.0

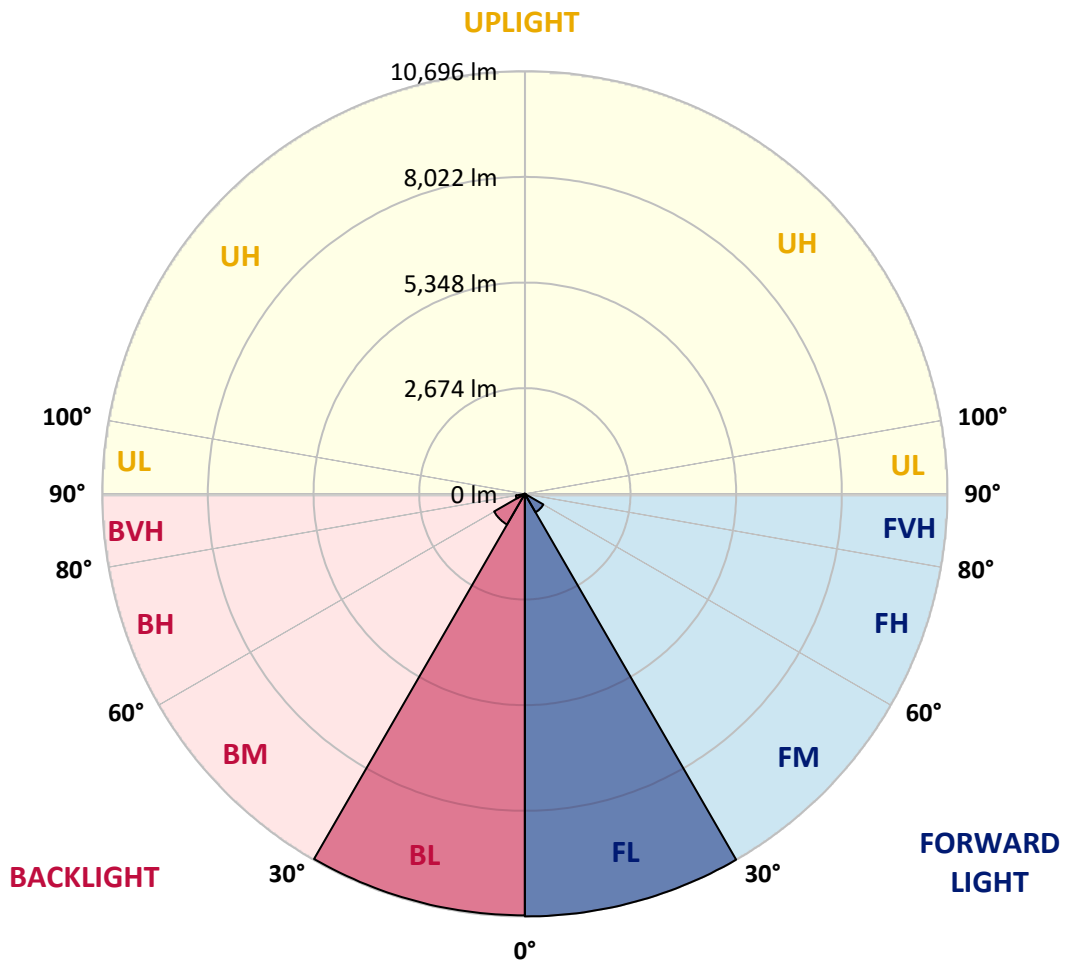


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10696.0	46.3			
FM (30°-60°)	539.7	2.3			
FH (60°-80°)	25.4	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10670.7	46.2	B5		
BM (30°-60°)	898.1	3.9	B1/1000		
BH (60°-80°)	231.9	1.0	B1/500		G0/660
BVH (80°-90°)	28.2	0.1			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°	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5
1°	226661.7	225969.9	224184.0	225454.3	226571.1	226246.6	226224.0	226103.3	225934.7	227257.8
2°	217601.1	217153.4	214512.2	215601.4	217188.6	216031.5	216756.0	216119.6	216132.1	217711.8
3°	202327.5	202571.5	198358.2	200337.8	202543.9	199739.2	200609.5	202244.5	200531.5	200015.9
4°	182475.9	180357.9	178056.3	180068.6	180639.6	179007.1	180611.9	182614.2	180234.6	180340.3
5°	159812.0	158247.4	155523.2	156765.8	155349.6	155865.3	158270.0	159095.1	157434.9	155344.6
6°	136509.1	135397.3	131991.5	133782.4	133279.4	132987.6	136023.7	133508.3	134413.8	133148.5
7°	113548.4	111470.7	109797.9	111513.5	111624.1	110746.2	114687.9	114230.1	112582.5	112200.2
8°	94076.6	92003.9	90587.7	91865.5	92700.6	91322.2	93176.1	94393.5	93105.6	93221.3
9°	75877.5	75512.8	73543.2	75213.5	76121.5	74645.0	76697.6	77137.8	75932.9	76519.0
10°	62301.8	61876.7	60304.6	60981.2	62485.5	60724.7	62694.2	62837.6	61876.7	62150.9
12.5°	38501.0	38329.9	38287.2	38385.3	38365.1	38677.0	39180.1	38606.6	38531.2	37582.8
15°	24885.0	25139.1	24877.5	25380.6	25453.5	25747.8	25440.9	24978.1	24095.2	23657.5
17.5°	15530.2	15854.7	16302.4	17039.4	17776.4	17862.0	17454.5	16911.1	16483.5	16015.7
20°	8934.8	9093.2	9025.3	9908.2	11814.9	12333.1	11807.4	11236.4	10720.7	10247.8
22.5°	5551.5	5493.7	5599.3	5896.1	6517.4	8119.8	7689.6	7118.6	6743.8	6353.9
25°	3403.4	3466.2	3426.0	3589.5	3868.7	4547.9	4646.0	4399.5	4208.3	4007.1
27.5°	2190.9	2190.9	2208.5	2299.1	2490.3	2467.6	2990.8	2799.7	2696.5	2598.4
30°	1521.8	1526.9	1526.9	1579.7	1622.4	1547.0	1682.8	1929.3	1881.5	1806.1
32.5°	1129.4	1144.5	1157.1	1184.8	1149.5	1069.1	1101.8	1388.5	1360.8	1333.2
35°	860.3	872.8	903.0	918.1	867.8	817.5	787.3	1021.3	1033.8	1026.3
37.5°	626.3	633.9	689.2	747.1	689.2	643.9	626.3	784.8	845.2	837.6
40°	480.4	483.0	493.0	558.4	558.4	523.2	528.2	586.1	691.7	691.7
42.5°	412.5	412.5	422.6	412.5	415.0	452.8	465.4	472.9	586.1	586.1
45°	357.2	357.2	362.2	337.1	311.9	389.9	400.0	402.5	493.0	505.6
47.5°	299.3	299.3	309.4	276.7	264.1	309.4	337.1	344.6	425.1	435.2
50°	221.4	223.9	254.1	226.4	233.9	239.0	291.8	296.8	359.7	382.3
52.5°	148.4	148.4	153.4	176.1	203.7	196.2	236.4	254.1	286.8	316.9
55°	120.7	120.7	118.2	113.2	150.9	163.5	173.6	211.3	233.9	271.7
57.5°	83.0	88.0	80.5	93.1	98.1	123.3	130.8	166.0	178.6	228.9
60°	10.1	12.6	17.6	67.9	65.4	83.0	98.1	130.8	145.9	176.1
62.5°	2.5	2.5	5.0	12.6	45.3	55.3	78.0	90.6	105.6	135.8
65°	0.0	0.0	2.5	5.0	10.1	30.2	40.2	52.8	75.5	95.6
67.5°	0.0	0.0	2.5	5.0	5.0	12.6	20.1	32.7	40.2	70.4
70°	0.0	0.0	2.5	5.0	5.0	10.1	12.6	15.1	27.7	37.7
72.5°	0.0	0.0	2.5	5.0	7.5	10.1	12.6	12.6	12.6	25.2
75°	0.0	0.0	2.5	5.0	7.5	10.1	12.6	12.6	10.1	10.1
77.5°	0.0	0.0	2.5	5.0	10.1	12.6	15.1	12.6	7.5	7.5
80°	0.0	0.0	2.5	7.5	12.6	17.6	20.1	15.1	7.5	5.0
82.5°	0.0	0.0	5.0	10.1	15.1	20.1	27.7	22.6	10.1	5.0
85°	0.0	0.0	2.5	7.5	15.1	20.1	40.2	27.7	12.6	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	15.1	10.1	5.0	2.5
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°
229408.5	0°	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5	229408.5
225731.0	1°	227308.1	227466.6	226948.4	227750.9	227469.1	225819.0	225273.2	224626.7	223696.0
216783.6	2°	216119.6	216927.0	216967.3	217857.7	217845.1	215920.8	215324.7	216423.9	214278.3
201062.3	3°	200453.6	201394.3	200546.6	202128.8	201653.4	199319.1	198712.9	199960.5	198401.0
181175.4	4°	180634.6	180456.0	180164.2	179263.7	180373.0	178780.7	177580.9	179273.7	175938.3
158116.6	5°	157799.6	157402.2	156833.7	156567.1	157392.1	156373.4	153905.8	156378.4	150429.5
135437.6	6°	135603.6	133893.1	133810.1	133661.7	133744.7	130892.2	131063.3	132904.6	127954.2
110884.6	7°	112056.8	112371.2	111729.8	112758.6	111973.8	110041.9	109297.4	111236.8	107737.8
93729.5	8°	93075.4	92678.0	92187.5	93724.4	92363.6	91095.8	90228.0	91759.9	89161.5
76614.6	9°	76471.2	75784.5	75286.4	75208.4	75419.7	73040.2	73523.1	74682.7	73118.1
62301.8	10°	62324.5	61197.6	61471.8	61544.7	61313.3	59753.7	59768.8	60168.8	58287.2
38211.7	12.5°	38075.9	37522.5	37660.8	37736.3	38206.7	37658.3	36883.6	36325.1	36043.4
24092.7	15°	23931.7	23534.2	24346.7	24892.6	24781.9	24293.9	23929.2	23423.6	23016.1
16015.7	17.5°	15867.2	16387.9	16390.5	16888.5	16938.8	16450.8	16169.1	15713.8	15733.9
10416.3	20°	10378.6	10594.9	11045.2	11397.4	11601.1	11228.8	10891.8	10579.8	10449.0
6494.8	22.5°	6494.8	6872.1	7153.8	7611.7	7797.8	7526.1	7287.2	7033.1	6877.1
4054.9	25°	3986.9	4256.1	4490.0	4887.5	5141.5	5010.7	4791.9	4613.3	4530.3
2618.5	27.5°	2658.8	2772.0	2887.7	3161.9	3426.0	3353.1	3265.0	3156.8	3119.1
1846.3	30°	1874.0	1884.0	2007.3	2160.7	2336.8	2382.1	2341.9	2286.5	2243.8
1355.8	32.5°	1381.0	1421.2	1479.1	1574.7	1692.9	1801.0	1780.9	1755.8	1735.6
1036.4	35°	1066.5	1126.9	1174.7	1247.6	1310.5	1413.7	1431.3	1423.7	1408.6
852.7	37.5°	870.3	923.2	971.0	1013.7	1066.5	1137.0	1192.3	1194.8	1179.7
704.3	40°	721.9	769.7	832.6	865.3	903.0	955.9	1023.8	1028.8	1023.8
596.2	42.5°	608.7	654.0	716.9	757.1	784.8	835.1	903.0	913.1	903.0
510.6	45°	523.2	550.9	616.3	664.1	691.7	724.4	797.4	807.4	804.9
440.2	47.5°	455.3	483.0	523.2	591.1	616.3	646.5	704.3	721.9	721.9
389.9	50°	400.0	427.6	462.8	523.2	560.9	586.1	633.9	659.0	659.0
339.6	52.5°	354.7	382.3	420.1	467.9	510.6	533.3	578.5	611.2	611.2
276.7	55°	296.8	344.6	372.3	415.0	472.9	493.0	528.2	571.0	571.0
241.5	57.5°	259.1	299.3	339.6	374.8	432.7	457.8	493.0	533.3	538.3
191.2	60°	218.8	256.6	304.4	334.6	389.9	422.6	460.3	498.1	508.1
145.9	62.5°	173.6	223.9	256.6	299.3	352.2	394.9	425.1	462.8	477.9
113.2	65°	128.3	183.6	221.4	266.6	316.9	362.2	387.4	427.6	437.7
80.5	67.5°	93.1	143.4	188.7	231.4	279.2	324.5	349.6	384.9	392.4
50.3	70°	72.9	105.6	156.0	193.7	244.0	281.7	309.4	332.0	339.6
32.7	72.5°	42.8	80.5	125.8	168.5	213.8	239.0	259.1	279.2	284.2
15.1	75°	27.7	62.9	103.1	140.9	173.6	196.2	213.8	231.4	233.9
7.5	77.5°	17.6	45.3	83.0	118.2	133.3	161.0	176.1	186.1	181.1
5.0	80°	10.1	35.2	72.9	95.6	108.2	125.8	140.9	153.4	140.9
5.0	82.5°	7.5	30.2	60.4	80.5	80.5	100.6	108.2	108.2	103.1
2.5	85°	5.0	25.2	47.8	75.5	60.4	75.5	70.4	70.4	70.4
2.5	87.5°	5.0	17.6	22.6	32.7	27.7	32.7	32.7	37.7	37.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
229408.5
222066.0
211767.9
194419.1
173146.2
149863.5
127566.8
105961.9
87385.6
71060.5
57447.1
35985.6
23164.5
15600.6
10471.7
6897.3
4510.1
3094.0
2248.8
1735.6
1398.6
1177.2
1021.3
905.5
804.9
724.4
661.6
611.2
573.5
535.8
508.1
480.4
435.2
387.4
339.6
284.2
231.4
181.1
138.3
100.6
67.9
37.7
0.0

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