

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: P638631

Luminaire Tested: **EPH-VN-04-E-740-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638631
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-740-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33732.5 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

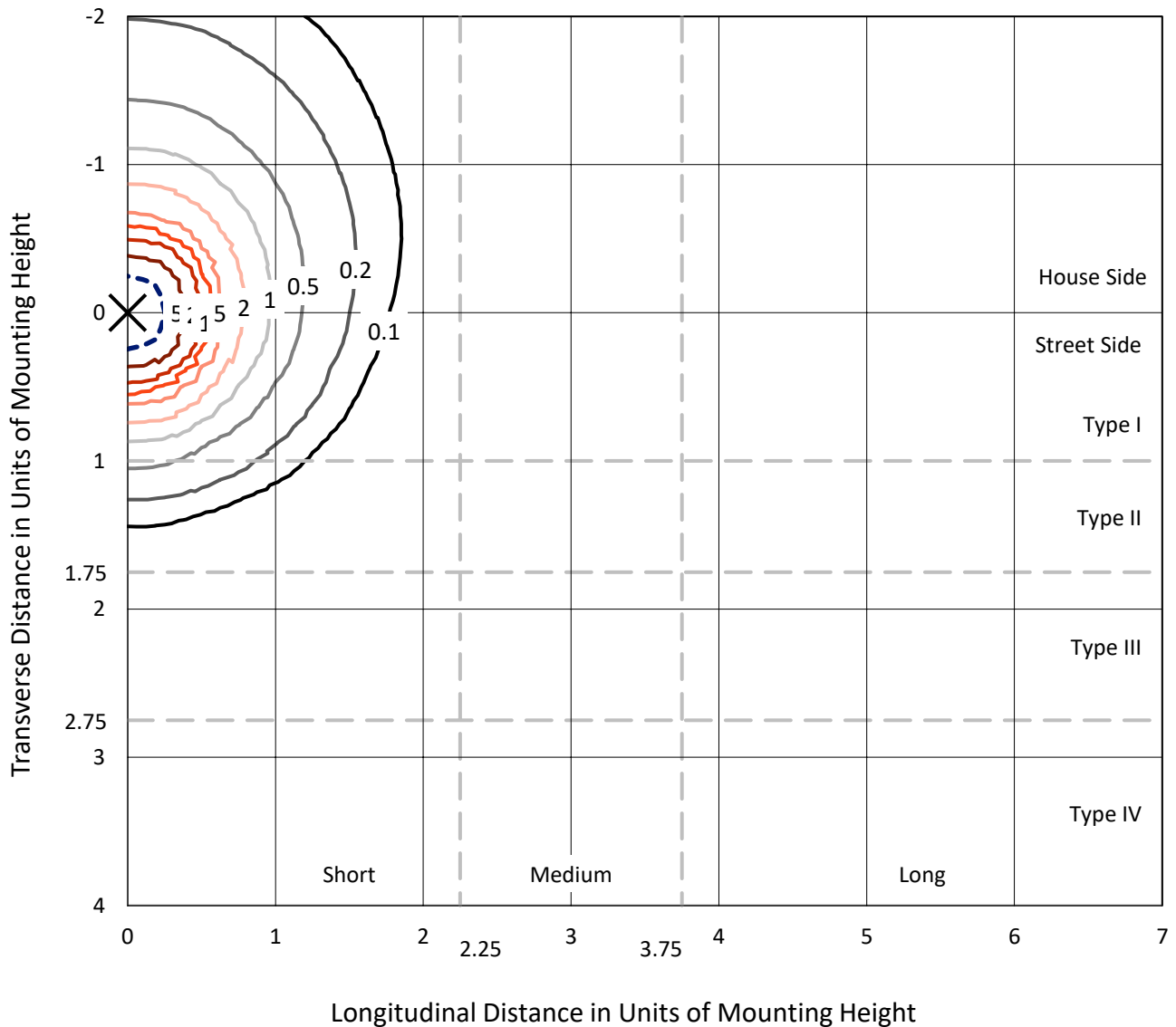
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

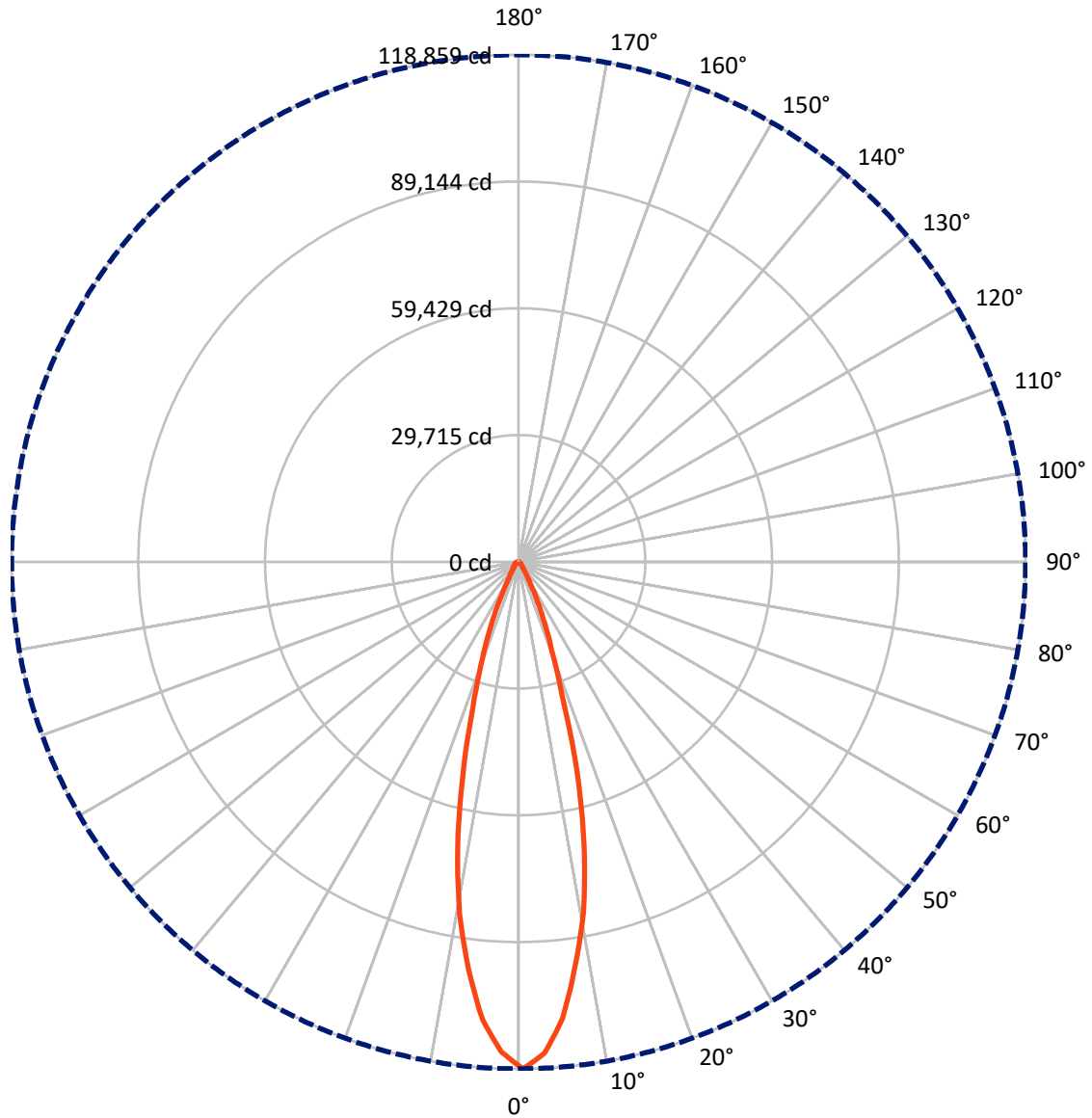
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 297.1 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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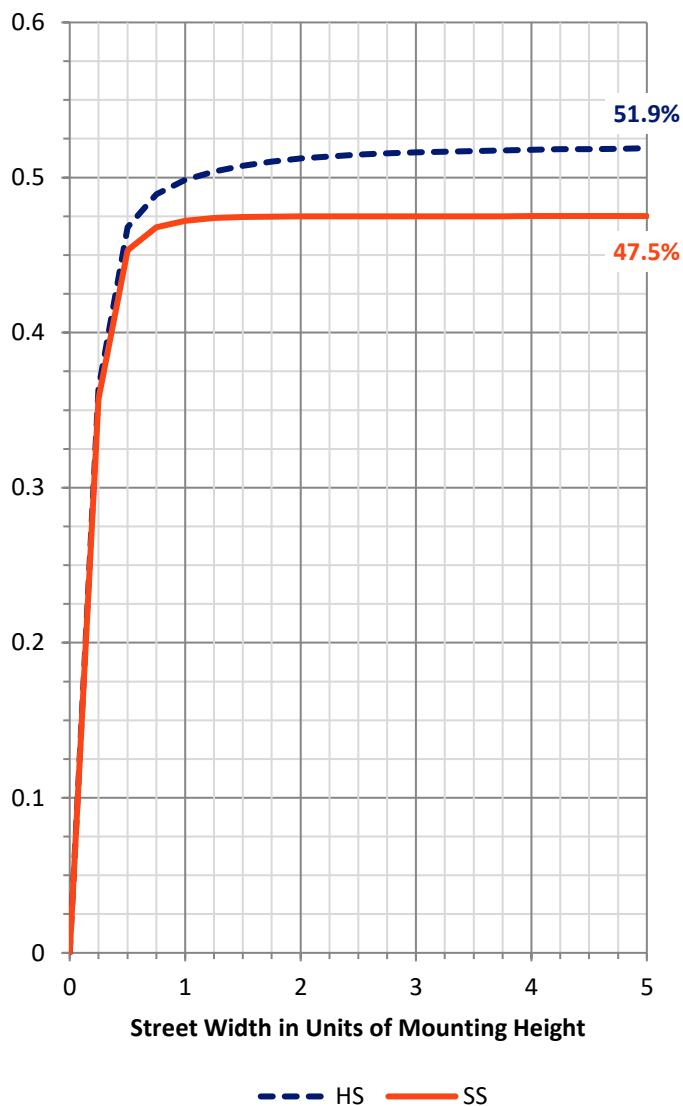
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17786.0	0.0	17786.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15946.4	0.0	15946.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	33732.5	0.0	33732.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9593.0	28.4
10°-20°	14528.4	43.1
20°-30°	6131.1	18.2
30°-40°	1599.0	4.7
40°-50°	808.8	2.4
50°-60°	528.6	1.6
60°-70°	316.7	0.9
70°-80°	166.6	0.5
80°-90°	60.2	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°	33732.5	100.0
0°-180°	33732.5	100.0

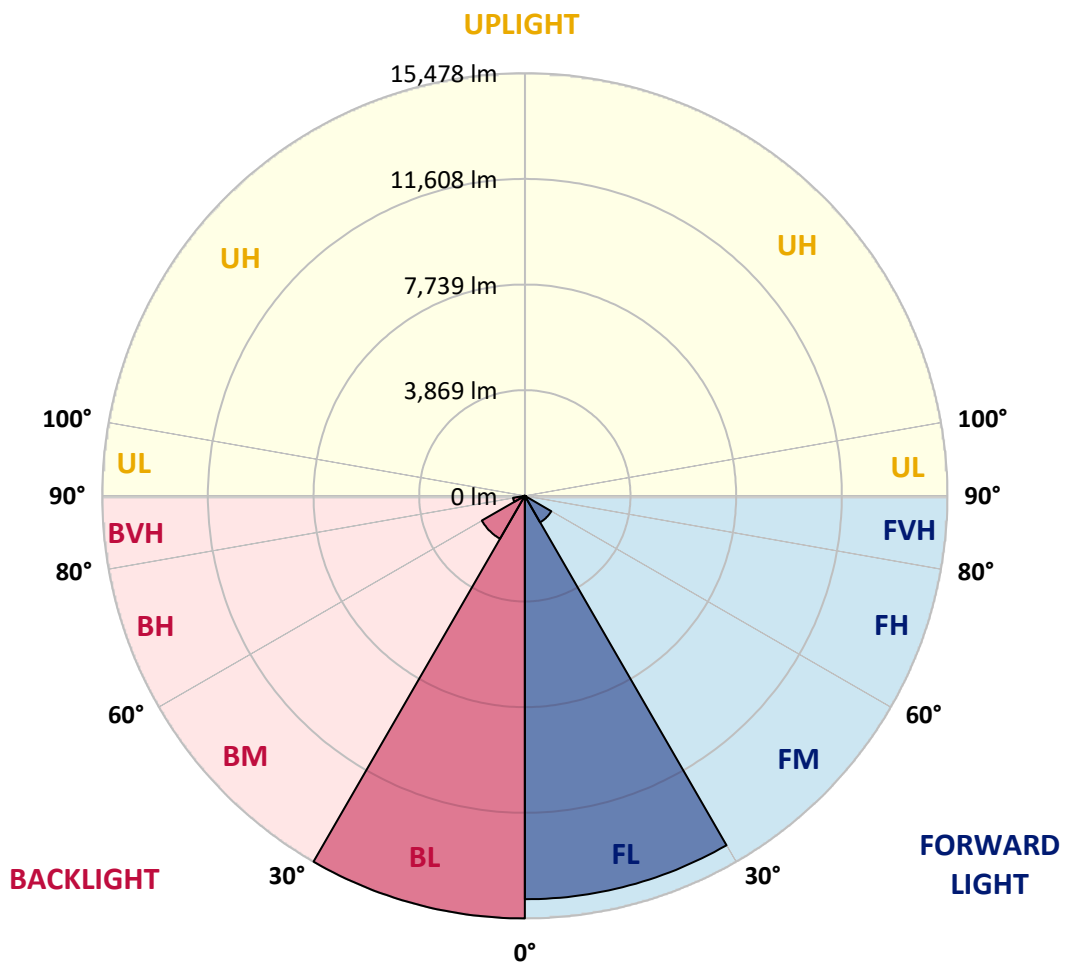


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14774.6	43.8			
FM (30°-60°)	1118.9	3.3			
FH (60°-80°)	45.6	0.1			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	15477.9	45.9	B5		
BM (30°-60°)	1817.5	5.4	B2/2500		
BH (60°-80°)	437.7	1.3	B1/500		G0/660
BVH (80°-90°)	52.9	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°	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6
2.5°	115396.2	115460.6	115222.0	115737.2	115335.6	116411.5	115877.3	116710.7	116430.4	116896.4
5°	107516.8	107410.7	107342.5	108141.8	107910.7	109066.1	108327.4	108085.0	108835.1	108698.7
7.5°	95618.0	95898.4	95739.2	95947.6	96065.0	97383.3	97800.0	97474.2	97485.6	97675.0
10°	83420.0	83007.1	82419.9	82810.1	83635.9	84211.7	83980.7	84458.0	84351.9	84802.7
12.5°	68411.2	68736.9	68407.4	68058.8	69502.2	69343.1	69744.6	70006.0	69350.6	70809.1
15°	51530.9	51701.4	52102.9	52076.4	53186.4	53409.9	53356.8	53633.4	53122.0	53364.4
17.5°	33105.1	33680.9	34760.5	36586.5	38639.7	38878.3	38817.7	38590.4	38344.2	38071.4
20°	22236.7	22176.1	22566.3	23100.5	27350.8	28475.9	28441.8	27729.6	26699.3	26502.3
22.5°	15577.1	15690.7	15637.7	16168.0	17046.9	20149.5	19766.8	19043.3	18706.1	18486.4
25°	10247.1	10205.4	10470.6	10629.7	11383.5	11762.4	13103.4	12834.4	12315.4	12372.3
27.5°	6246.7	6299.8	6398.3	6534.6	7068.8	6947.6	7712.8	7815.1	7648.4	7470.3
30°	3833.7	3871.5	3951.1	4049.6	4235.2	4102.6	4314.8	4682.2	4621.6	4496.6
32.5°	2602.5	2606.3	2663.1	2701.0	2678.3	2553.2	2621.4	2970.0	2977.5	2966.2
35°	1871.4	1871.4	1924.4	1954.7	1890.3	1788.0	1799.4	2015.3	2110.0	2129.0
37.5°	1291.8	1295.6	1386.5	1477.4	1405.4	1378.9	1333.4	1477.4	1628.9	1651.7
40°	981.1	977.4	1022.8	1091.0	1098.6	1049.3	1064.5	1155.4	1310.7	1329.7
42.5°	795.5	799.3	822.0	814.5	818.3	882.7	905.4	947.1	1091.0	1125.1
45°	670.5	674.3	685.7	647.8	632.6	731.1	761.4	784.2	905.4	947.1
47.5°	553.1	560.7	572.0	530.3	522.8	587.2	640.2	662.9	769.0	814.5
50°	397.8	405.3	447.0	424.3	447.0	462.2	534.1	568.2	640.2	700.8
52.5°	287.9	295.5	306.8	310.6	367.5	375.0	428.1	481.1	515.2	583.4
55°	227.3	234.9	227.3	219.7	269.0	310.6	329.6	386.4	412.9	492.5
57.5°	128.8	136.4	147.7	170.5	178.0	238.7	257.6	306.8	329.6	405.3
60°	22.7	26.5	41.7	102.3	125.0	151.5	193.2	234.9	265.2	318.2
62.5°	3.8	3.8	7.6	22.7	72.0	106.1	140.2	166.7	193.2	242.4
65°	0.0	0.0	3.8	7.6	18.9	60.6	75.8	98.5	132.6	174.3
67.5°	0.0	0.0	3.8	7.6	11.4	22.7	34.1	60.6	75.8	117.4
70°	0.0	0.0	3.8	7.6	11.4	15.2	18.9	26.5	45.5	72.0
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	18.9	22.7	22.7	45.5
75°	0.0	0.0	3.8	7.6	11.4	18.9	22.7	22.7	18.9	18.9
77.5°	0.0	0.0	3.8	7.6	15.2	22.7	26.5	22.7	15.2	15.2
80°	0.0	0.0	7.6	11.4	18.9	26.5	34.1	26.5	15.2	7.6
82.5°	0.0	0.0	7.6	15.2	18.9	30.3	41.7	34.1	15.2	7.6
85°	0.0	0.0	3.8	11.4	22.7	30.3	41.7	30.3	15.2	3.8
87.5°	0.0	0.0	3.8	3.8	7.6	11.4	22.7	18.9	7.6	3.8
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°
118858.6	0°	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6	118858.6
116013.7	2.5°	116680.4	117286.5	117411.6	117244.9	117487.3	117051.7	116718.3	115854.6	115335.6
108657.0	5°	109357.8	109266.9	109899.5	110107.9	110081.4	109748.0	109282.1	108759.3	108251.7
97307.6	7.5°	97913.7	98031.1	98606.9	98974.4	98788.7	98372.0	98050.1	97656.1	97315.1
84965.6	10°	85742.2	84935.3	85651.3	85651.3	86147.5	84969.4	85079.2	84086.7	84132.2
70782.6	12.5°	71025.0	71316.7	71434.1	71771.3	71191.7	70566.6	69801.4	69649.9	69176.4
52902.3	15°	53663.7	54497.1	53781.1	55004.7	54413.7	53762.2	53644.7	52470.4	52841.6
38370.7	17.5°	38181.3	39101.8	39389.7	40090.5	39552.6	39166.2	38677.5	38321.5	38294.9
26862.1	20°	27074.3	27998.6	28210.7	29051.7	28991.1	28869.9	28457.0	28006.2	27517.5
18285.7	22.5°	18562.2	19316.0	20020.7	21153.3	21134.4	20778.3	20736.6	20100.2	20111.6
12353.3	25°	12482.1	13031.4	13198.1	14357.3	14486.1	14448.2	14232.3	13641.3	13864.8
7546.1	27.5°	7553.7	8034.8	8599.2	9008.3	9394.7	9334.1	9118.2	8788.6	8644.7
4534.5	30°	4655.7	4871.6	5080.0	5572.4	5803.5	5924.7	5822.5	5515.6	5538.4
2985.1	32.5°	3049.5	3231.3	3382.9	3693.5	3814.7	4038.2	3996.6	3932.2	3856.4
2147.9	35°	2223.7	2356.3	2458.5	2602.5	2757.8	2947.2	2977.5	2951.0	2920.7
1659.2	37.5°	1697.1	1833.5	1950.9	2011.5	2132.8	2280.5	2363.8	2360.1	2337.3
1352.4	40°	1378.9	1481.2	1587.3	1666.8	1750.1	1860.0	1962.3	1973.7	1973.7
1136.5	42.5°	1151.6	1238.7	1344.8	1428.2	1488.8	1591.0	1697.1	1704.7	1697.1
962.2	45°	984.9	1060.7	1163.0	1261.5	1310.7	1386.5	1488.8	1511.5	1496.3
825.8	47.5°	856.1	924.3	1011.5	1117.5	1170.6	1238.7	1333.4	1360.0	1356.2
712.2	50°	734.9	814.5	901.6	988.7	1056.9	1121.3	1212.2	1242.5	1231.2
606.1	52.5°	647.8	719.8	795.5	890.2	969.8	1026.6	1098.6	1151.6	1136.5
511.4	55°	541.7	628.8	708.4	787.9	886.4	947.1	1015.2	1079.6	1064.5
431.9	57.5°	469.7	541.7	632.6	704.6	803.1	875.1	943.3	1011.5	1007.7
352.3	60°	394.0	469.7	556.9	632.6	723.5	803.1	871.3	947.1	954.6
265.2	62.5°	310.6	401.5	477.3	564.4	655.4	742.5	803.1	878.9	890.2
200.8	65°	234.9	329.6	412.9	496.3	587.2	681.9	734.9	799.3	810.7
147.7	67.5°	174.3	253.8	352.3	428.1	522.8	613.7	662.9	716.0	734.9
90.9	70°	132.6	193.2	295.5	367.5	465.9	537.9	591.0	636.4	651.6
60.6	72.5°	83.3	151.5	238.7	314.4	401.5	465.9	503.8	530.3	553.1
34.1	75°	56.8	117.4	193.2	269.0	333.4	382.6	416.7	439.4	458.4
15.2	77.5°	34.1	90.9	159.1	223.5	265.2	303.1	337.2	352.3	363.7
11.4	80°	18.9	68.2	132.6	181.8	208.4	234.9	261.4	280.3	287.9
7.6	82.5°	11.4	53.0	106.1	140.2	151.5	178.0	204.6	215.9	215.9
3.8	85°	7.6	37.9	72.0	102.3	109.9	128.8	136.4	144.0	151.5
3.8	87.5°	7.6	22.7	45.5	56.8	60.6	68.2	72.0	79.6	87.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
118858.6
114953.0
107683.4
96159.7
83689.0
68744.5
52470.4
37590.3
27305.4
19891.9
13512.5
8519.7
5439.9
3829.9
2909.3
2326.0
1950.9
1689.5
1496.3
1348.6
1223.6
1132.7
1072.1
1011.5
958.4
897.8
822.0
742.5
659.1
549.3
454.6
359.9
280.3
212.1
147.7
83.3
0.0

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