

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: P638621

Luminaire Tested: **EPH-VN-07-E-730-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638621
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-730-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49578.9 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

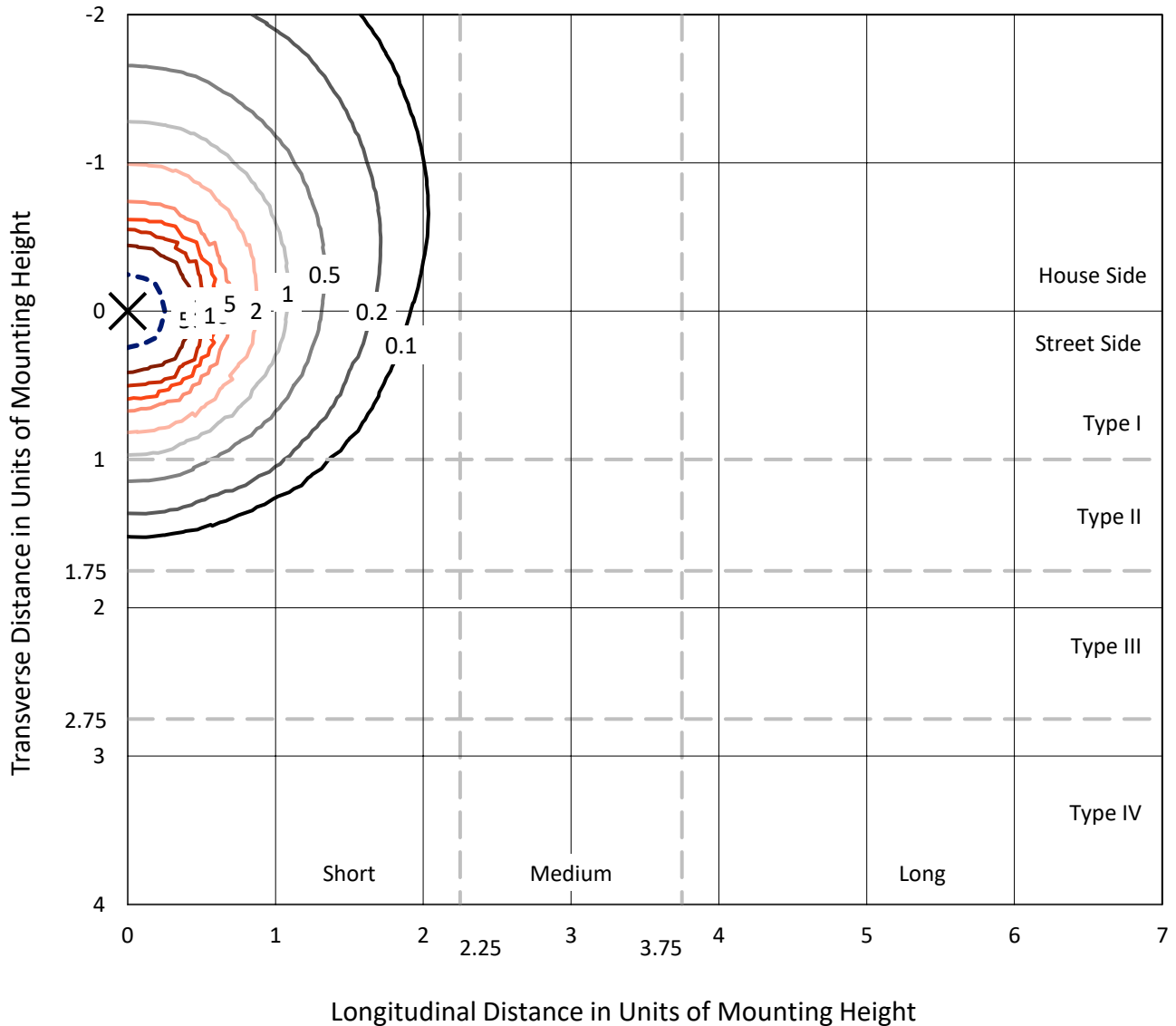
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

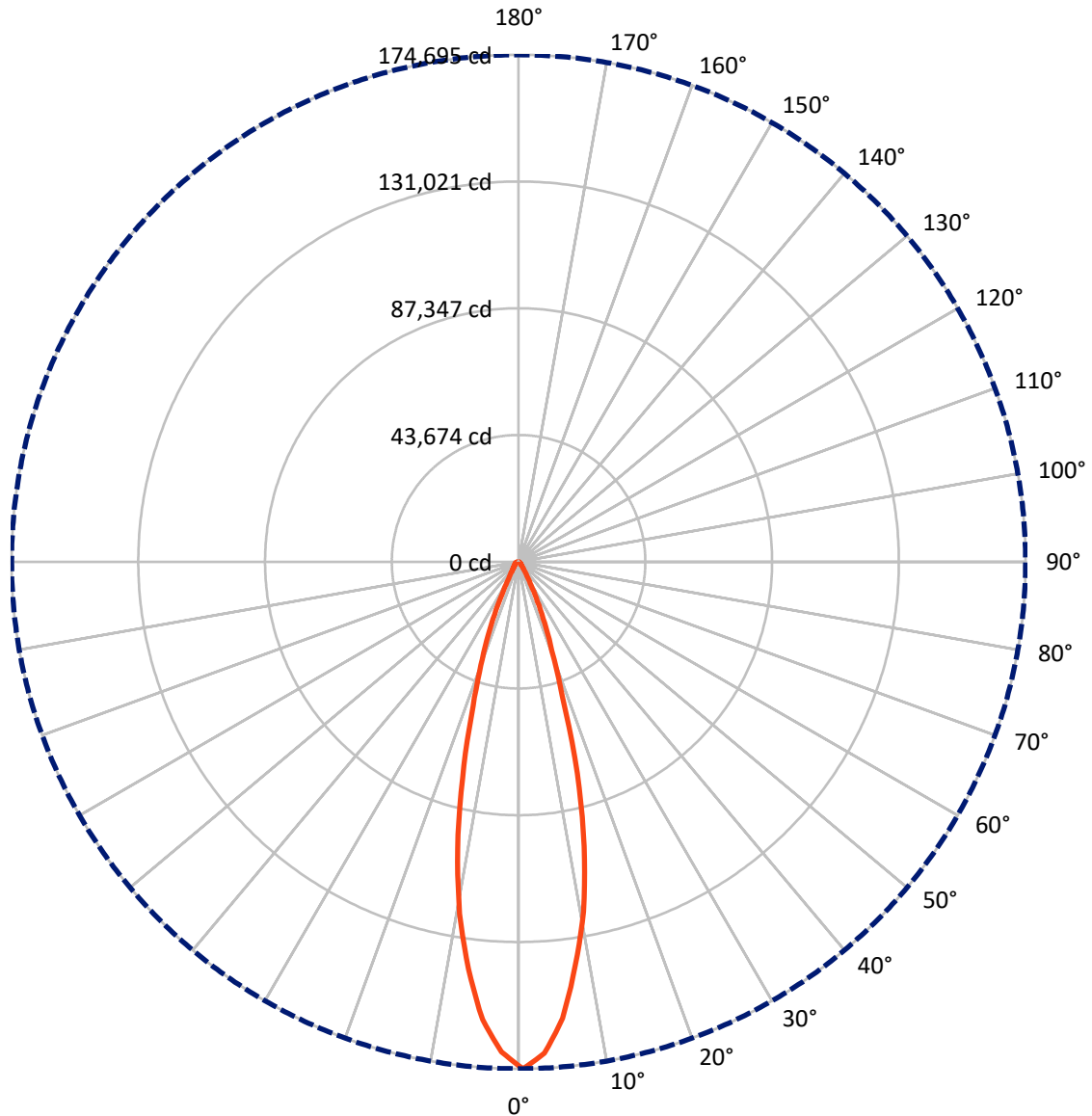
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 436.7 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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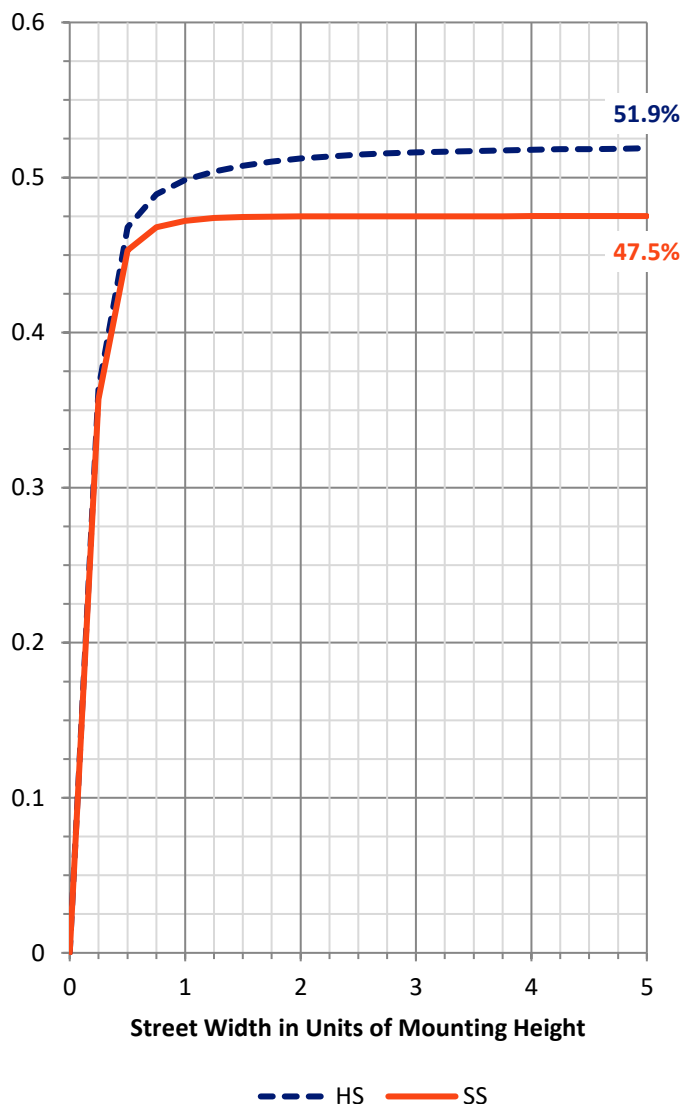
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26141.4	0.0	26141.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	23437.6	0.0	23437.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	49578.9	0.0	49578.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14099.4	28.4
10°-20°	21353.5	43.1
20°-30°	9011.3	18.2
30°-40°	2350.2	4.7
40°-50°	1188.7	2.4
50°-60°	777.0	1.6
60°-70°	465.5	0.9
70°-80°	244.9	0.5
80°-90°	88.5	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°	49578.9	100.0
0°-180°	49578.9	100.0



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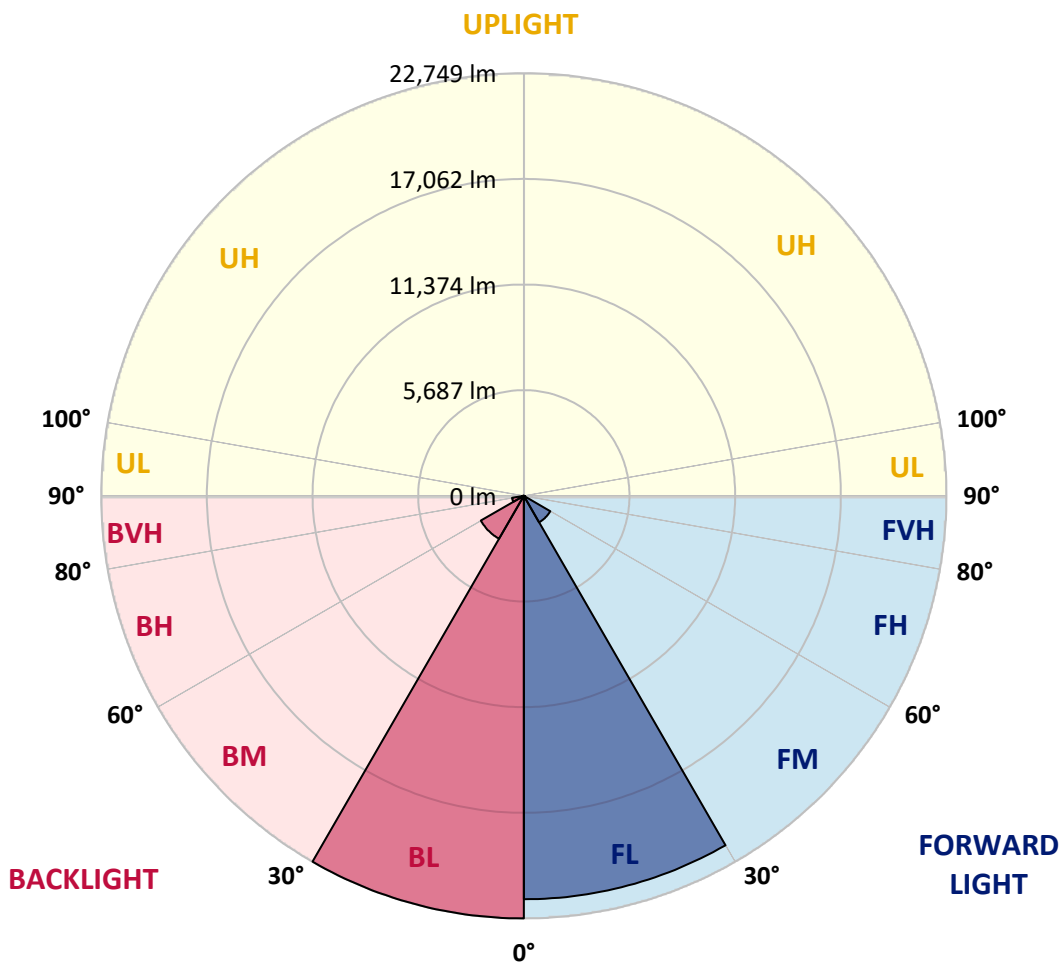
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21715.3	43.8			
FM (30°-60°)	1644.6	3.3			
FH (60°-80°)	67.0	0.1			G0/660
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	22748.9	45.9	B5		
BM (30°-60°)	2671.4	5.4	B3/5000		
BH (60°-80°)	643.4	1.3	B2/1000		G0/660
BVH (80°-90°)	77.7	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°	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7
2.5°	169605.8	169700.4	169349.7	170106.9	169516.7	171098.0	170312.9	171537.8	171125.8	171810.6
5°	158024.8	157868.9	157768.7	158943.5	158603.9	160302.0	159216.3	158860.0	159962.4	159761.9
7.5°	140536.4	140948.4	140714.6	141020.8	141193.4	143131.0	143743.4	143264.6	143281.3	143559.7
10°	122608.1	122001.2	121138.2	121711.7	122925.5	123771.8	123432.2	124133.7	123977.8	124640.4
12.5°	100548.6	101027.4	100543.0	100030.8	102152.1	101918.3	102508.4	102892.6	101929.4	104073.0
15°	75738.5	75989.1	76579.3	76540.3	78171.7	78500.2	78422.2	78828.7	78077.0	78433.4
17.5°	48656.9	49503.2	51090.0	53773.6	56791.4	57142.2	57053.1	56719.0	56357.1	55956.2
20°	32682.9	32593.8	33167.3	33952.3	40199.4	41853.0	41802.9	40756.2	39241.7	38952.2
22.5°	22894.7	23061.8	22983.8	23763.3	25055.0	29615.0	29052.7	27989.2	27493.7	27170.8
25°	15060.9	14999.6	15389.4	15623.2	16731.2	17288.0	19259.0	18863.6	18100.9	18184.4
27.5°	9181.3	9259.2	9404.0	9604.4	10389.5	10211.3	11336.0	11486.3	11241.4	10979.7
30°	5634.6	5690.3	5807.2	5952.0	6224.8	6029.9	6341.7	6881.8	6792.7	6609.0
32.5°	3825.1	3830.6	3914.2	3969.8	3936.4	3752.7	3852.9	4365.1	4376.3	4359.6
35°	2750.5	2750.5	2828.4	2873.0	2778.3	2628.0	2644.7	2962.1	3101.3	3129.1
37.5°	1898.6	1904.2	2037.8	2171.4	2065.6	2026.7	1959.9	2171.4	2394.1	2427.6
40°	1442.1	1436.5	1503.3	1603.5	1614.7	1542.3	1564.5	1698.2	1926.5	1954.3
42.5°	1169.2	1174.8	1208.2	1197.1	1202.6	1297.3	1330.7	1391.9	1603.5	1653.6
45°	985.5	991.1	1007.8	952.1	929.8	1074.6	1119.1	1152.5	1330.7	1391.9
47.5°	812.9	824.0	840.7	779.5	768.4	863.0	941.0	974.4	1130.3	1197.1
50°	584.6	595.8	657.0	623.6	657.0	679.3	785.1	835.2	941.0	1030.0
52.5°	423.2	434.3	451.0	456.6	540.1	551.2	629.2	707.1	757.2	857.4
55°	334.1	345.2	334.1	322.9	395.3	456.6	484.4	567.9	606.9	723.8
57.5°	189.3	200.4	217.1	250.6	261.7	350.8	378.6	451.0	484.4	595.8
60°	33.4	39.0	61.2	150.3	183.7	222.7	284.0	345.2	389.7	467.7
62.5°	5.6	5.6	11.1	33.4	105.8	155.9	206.0	245.0	284.0	356.3
65°	0.0	0.0	5.6	11.1	27.8	89.1	111.4	144.8	194.9	256.1
67.5°	0.0	0.0	5.6	11.1	16.7	33.4	50.1	89.1	111.4	172.6
70°	0.0	0.0	5.6	11.1	16.7	22.3	27.8	39.0	66.8	105.8
72.5°	0.0	0.0	5.6	11.1	16.7	22.3	27.8	33.4	33.4	66.8
75°	0.0	0.0	5.6	11.1	16.7	27.8	33.4	33.4	27.8	27.8
77.5°	0.0	0.0	5.6	11.1	22.3	33.4	39.0	33.4	22.3	22.3
80°	0.0	0.0	11.1	16.7	27.8	39.0	50.1	39.0	22.3	11.1
82.5°	0.0	0.0	11.1	22.3	27.8	44.5	61.2	50.1	22.3	11.1
85°	0.0	0.0	5.6	16.7	33.4	44.5	61.2	44.5	22.3	5.6
87.5°	0.0	0.0	5.6	5.6	11.1	16.7	33.4	27.8	11.1	5.6
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°
174694.7	0°	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7	174694.7
170513.3	2.5°	171493.3	172384.1	172567.8	172322.9	172679.2	172038.9	171548.9	170279.5	169516.7
159700.7	5°	160730.7	160597.1	161526.9	161833.2	161794.2	161304.2	160619.4	159851.0	159105.0
143019.6	7.5°	143910.5	144083.1	144929.4	145469.5	145196.6	144584.2	144110.9	143531.9	143030.8
124879.8	10°	126021.2	124835.3	125887.6	125887.6	126616.9	124885.4	125046.8	123588.1	123654.9
104034.0	12.5°	104390.4	104819.1	104991.7	105487.2	104635.3	103716.7	102592.0	102369.2	101673.3
77754.1	15°	78873.2	80098.1	79045.8	80844.2	79975.6	79018.0	78845.4	77119.4	77665.0
56396.1	17.5°	56117.7	57470.7	57893.8	58923.8	58133.2	57565.3	56847.1	56323.7	56284.7
39481.1	20°	39792.9	41151.5	41463.3	42699.3	42610.2	42432.1	41825.2	41162.6	40444.4
26875.7	22.5°	27282.1	28390.1	29425.7	31090.5	31062.7	30539.3	30478.0	29542.7	29559.4
18156.5	25°	18345.8	19153.2	19398.2	21101.9	21291.2	21235.5	20918.2	20049.6	20378.1
11091.0	27.5°	11102.2	11809.3	12638.9	13240.2	13808.1	13719.0	13401.7	12917.3	12705.7
6664.6	30°	6842.8	7160.2	7466.4	8190.2	8529.8	8708.0	8557.7	8106.7	8140.1
4387.4	32.5°	4482.1	4749.3	4972.0	5428.6	5606.8	5935.3	5874.0	5779.4	5668.0
3156.9	35°	3268.3	3463.2	3613.5	3825.1	4053.3	4331.7	4376.3	4337.3	4292.8
2438.7	37.5°	2494.4	2694.8	2867.4	2956.5	3134.7	3351.8	3474.3	3468.7	3435.3
1987.7	40°	2026.7	2177.0	2332.9	2449.8	2572.3	2733.8	2884.1	2900.8	2900.8
1670.3	42.5°	1692.6	1820.7	1976.6	2099.1	2188.1	2338.5	2494.4	2505.5	2494.4
1414.2	45°	1447.6	1559.0	1709.3	1854.1	1926.5	2037.8	2188.1	2221.5	2199.3
1213.8	47.5°	1258.3	1358.5	1486.6	1642.5	1720.4	1820.7	1959.9	1998.8	1993.3
1046.7	50°	1080.1	1197.1	1325.1	1453.2	1553.4	1648.1	1781.7	1826.2	1809.5
890.8	52.5°	952.1	1057.9	1169.2	1308.4	1425.4	1508.9	1614.7	1692.6	1670.3
751.7	55°	796.2	924.3	1041.2	1158.1	1302.9	1391.9	1492.2	1586.8	1564.5
634.7	57.5°	690.4	796.2	929.8	1035.6	1180.4	1286.2	1386.4	1486.6	1481.0
517.8	60°	579.0	690.4	818.5	929.8	1063.4	1180.4	1280.6	1391.9	1403.1
389.7	62.5°	456.6	590.2	701.5	829.6	963.2	1091.3	1180.4	1291.7	1308.4
295.1	65°	345.2	484.4	606.9	729.4	863.0	1002.2	1080.1	1174.8	1191.5
217.1	67.5°	256.1	373.0	517.8	629.2	768.4	902.0	974.4	1052.3	1080.1
133.6	70°	194.9	284.0	434.3	540.1	684.8	790.6	868.6	935.4	957.7
89.1	72.5°	122.5	222.7	350.8	462.1	590.2	684.8	740.5	779.5	812.9
50.1	75°	83.5	172.6	284.0	395.3	490.0	562.3	612.5	645.9	673.7
22.3	77.5°	50.1	133.6	233.8	328.5	389.7	445.4	495.5	517.8	534.5
16.7	80°	27.8	100.2	194.9	267.3	306.2	345.2	384.2	412.0	423.2
11.1	82.5°	16.7	77.9	155.9	206.0	222.7	261.7	300.7	317.4	317.4
5.6	85°	11.1	55.7	105.8	150.3	161.5	189.3	200.4	211.6	222.7
5.6	87.5°	11.1	33.4	66.8	83.5	89.1	100.2	105.8	116.9	128.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
174694.7
168954.4
158269.8
141332.6
123003.5
101038.5
77119.4
55249.1
40132.6
29236.4
19860.3
12521.9
7995.3
5629.0
4276.1
3418.6
2867.4
2483.2
2199.3
1982.1
1798.4
1664.8
1575.7
1486.6
1408.6
1319.6
1208.2
1091.3
968.8
807.3
668.1
528.9
412.0
311.8
217.1
122.5
0.0

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