

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: P638719

Luminaire Tested: **EPH-VN-08-E-940-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638719
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-940-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46472.3 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

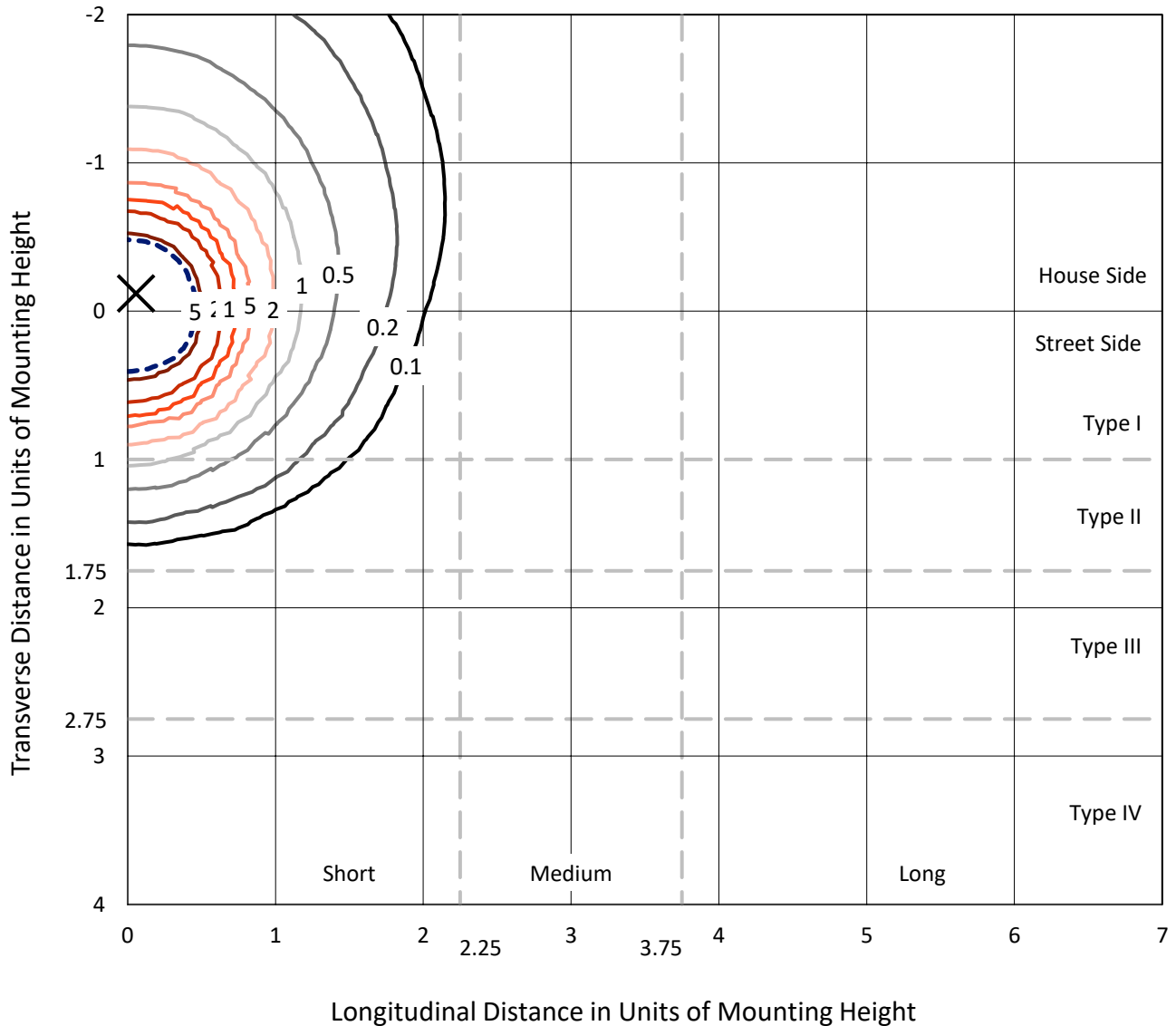
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

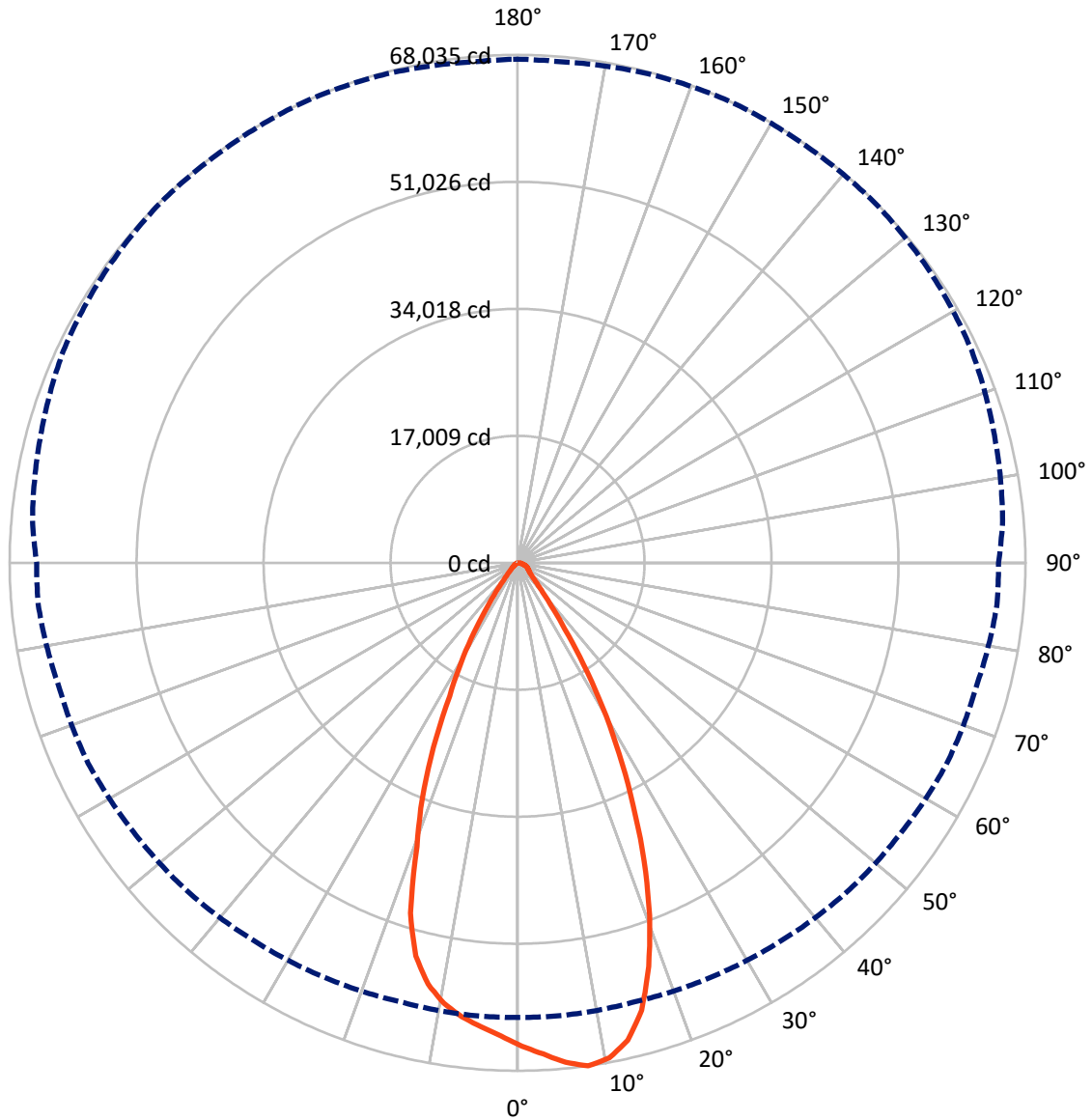
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 164.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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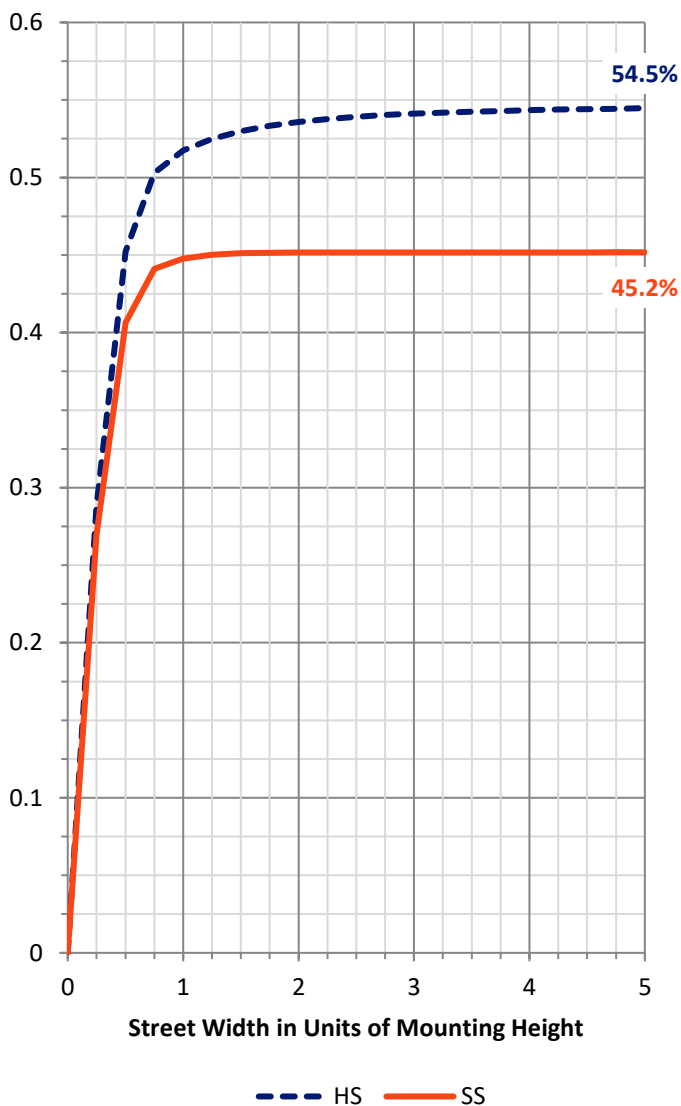
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25654.4	0.0	25654.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	20817.9	0.0	20817.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	46472.3	0.0	46472.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6173.3	13.3
10°-20°	16007.5	34.4
20°-30°	14667.3	31.6
30°-40°	5925.6	12.8
40°-50°	1738.3	3.7
50°-60°	971.9	2.1
60°-70°	590.3	1.3
70°-80°	299.9	0.6
80°-90°	98.1	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°	46472.3	100.0
0°-180°	46472.3	100.0

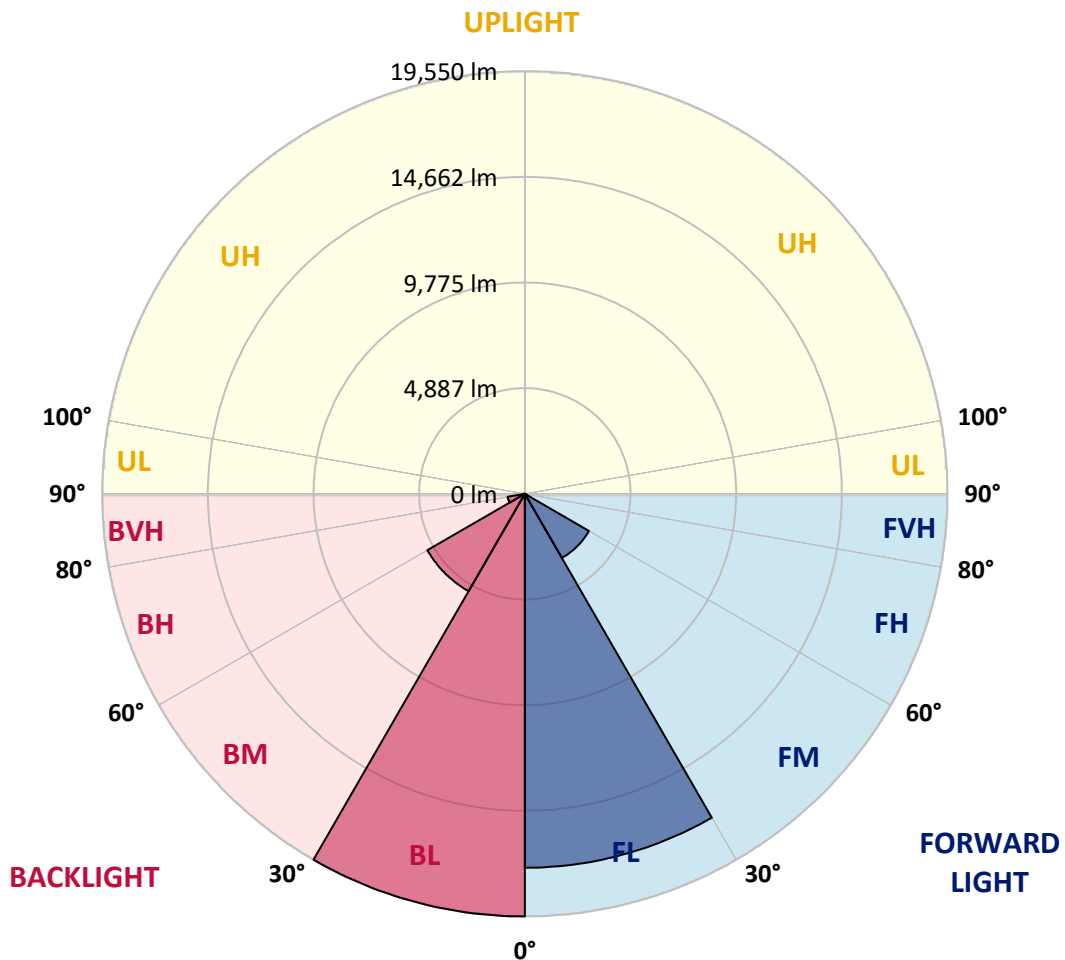


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17298.2	37.2			
FM (30°-60°)	3428.2	7.4			
FH (60°-80°)	83.0	0.2			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	19550.0	42.1	B5		
BM (30°-60°)	5207.6	11.2	B4/8500		
BH (60°-80°)	807.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	89.6	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5
2.5°	63335.5	63549.8	63121.1	63405.2	63624.9	64150.0	64192.9	64375.1	64439.4	64916.3
5°	62135.1	62301.2	61952.9	62333.4	62644.2	63110.4	63469.5	63973.2	64251.8	64814.5
7.5°	60886.5	60924.0	60854.4	61256.3	61722.5	62365.6	62810.3	63469.5	63640.9	64444.8
10°	59375.4	59102.1	59236.0	59825.5	60522.1	61508.1	61813.6	62472.7	62778.2	63598.1
12.5°	56963.9	57103.2	56937.1	57687.3	58266.1	59386.1	59707.6	60372.1	60956.2	61679.6
15°	53566.4	53486.0	53823.6	54407.8	55034.7	55924.3	56444.1	57167.5	57612.3	58362.5
17.5°	45930.2	46203.5	47596.7	49059.7	50345.8	51385.4	52007.0	52607.2	52928.7	53743.3
20°	39665.7	39322.8	39510.3	40335.6	43995.6	45587.2	46241.0	46385.7	46519.6	47162.7
22.5°	32661.8	32549.3	33176.2	34103.3	34971.4	38642.2	39531.8	39194.2	39472.8	40078.4
25°	24253.9	24821.9	25379.2	27158.3	28283.7	30084.2	31772.2	31922.3	32024.1	32404.6
27.5°	19741.8	19543.5	19532.8	20031.1	21692.4	23192.8	24629.0	24961.2	24902.3	25266.7
30°	15519.0	15454.7	15229.7	15347.6	15181.4	16515.8	17191.0	18557.5	18482.5	18493.2
32.5°	11194.5	10953.4	10862.3	11039.1	10867.6	10744.4	11333.8	12877.2	12850.4	12957.5
35°	6773.5	6741.4	6816.4	6971.8	6628.8	6618.1	6741.4	8193.6	8370.4	8541.9
37.5°	3740.4	3708.3	3767.2	4340.6	4228.1	4126.3	4158.4	4924.7	5433.8	5562.4
40°	2465.0	2459.7	2502.6	2604.4	2797.3	2759.8	2775.9	3118.8	3601.1	3713.6
42.5°	1650.5	1655.9	1682.7	1800.6	1827.3	2020.3	1988.1	2068.5	2518.6	2615.1
45°	1318.3	1312.9	1329.0	1275.4	1307.5	1505.8	1527.3	1532.6	1918.4	1977.4
47.5°	1039.6	1039.6	1055.7	986.0	969.9	1093.2	1205.7	1221.8	1532.6	1613.0
50°	728.8	728.8	809.2	777.0	814.5	852.0	975.3	991.4	1254.0	1339.7
52.5°	535.9	546.6	557.3	562.7	685.9	680.6	787.7	862.8	948.5	1098.6
55°	407.3	418.0	391.2	418.0	509.1	568.0	589.5	696.6	755.6	921.7
57.5°	267.9	294.7	273.3	321.5	343.0	439.4	471.6	573.4	610.9	755.6
60°	37.5	42.9	69.7	225.1	241.1	289.4	364.4	455.5	493.0	616.3
62.5°	5.4	5.4	16.1	37.5	160.8	192.9	273.3	316.2	364.4	460.9
65°	0.0	0.0	5.4	10.7	32.2	112.5	139.3	171.5	251.9	332.2
67.5°	0.0	0.0	5.4	10.7	16.1	37.5	58.9	112.5	144.7	230.4
70°	0.0	0.0	5.4	10.7	16.1	21.4	32.2	42.9	85.7	134.0
72.5°	0.0	0.0	5.4	10.7	16.1	21.4	26.8	32.2	37.5	85.7
75°	0.0	0.0	5.4	10.7	16.1	26.8	32.2	32.2	32.2	37.5
77.5°	0.0	0.0	5.4	10.7	21.4	32.2	37.5	32.2	26.8	26.8
80°	0.0	0.0	5.4	16.1	26.8	37.5	42.9	32.2	21.4	16.1
82.5°	0.0	0.0	5.4	16.1	26.8	37.5	42.9	37.5	21.4	16.1
85°	0.0	0.0	5.4	16.1	21.4	26.8	42.9	37.5	21.4	10.7
87.5°	0.0	0.0	0.0	5.4	5.4	10.7	21.4	16.1	10.7	5.4
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°
64739.5	0°	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5	64739.5
64905.6	2.5°	65387.9	65629.1	66052.4	66170.3	66534.7	66116.7	65886.3	65907.7	65409.3
64744.9	5°	65387.9	65939.9	66679.4	67033.1	67301.0	67279.6	67220.6	67070.6	66706.2
64423.3	7.5°	65216.4	66116.7	67134.9	67606.4	67928.0	67901.2	68035.1	67794.0	67349.2
63849.9	10°	64664.5	65446.9	66700.8	67086.6	67606.4	67617.2	67451.0	67499.3	66706.2
61754.7	12.5°	62928.2	63539.1	64637.7	65077.1	65709.4	65811.3	65629.1	65559.4	64809.2
58319.7	15°	59568.3	59921.9	61025.9	61465.3	62092.3	62006.5	62188.7	62113.7	61454.6
53679.0	17.5°	54654.3	54766.8	55924.3	56294.0	56883.5	57113.9	56840.6	57189.0	56620.9
47275.2	20°	47607.5	48213.0	49515.2	50083.2	50426.2	50838.8	50479.8	50871.0	50206.5
39505.0	22.5°	40458.8	40817.9	41996.8	42816.7	43454.4	43534.8	43400.8	43674.1	42779.2
32656.4	25°	32651.1	33245.9	34178.3	35250.1	35877.1	36262.9	35914.6	36091.4	35946.7
25325.6	27.5°	25754.3	26284.8	26986.8	27785.3	28728.5	29232.2	28953.5	29253.6	28546.3
18884.4	30°	18900.4	19168.4	19961.5	20808.2	21842.4	22453.3	22480.1	22785.6	22367.6
13230.8	32.5°	13327.3	13563.1	14050.7	14613.4	15599.4	16280.0	16172.8	16215.7	15958.5
8622.3	35°	8665.2	8981.3	9329.6	9597.6	10192.4	10942.6	10883.7	10830.1	10653.3
5669.6	37.5°	5792.8	5916.1	6109.0	6350.2	6736.0	7207.6	7363.0	7170.1	7095.0
3826.2	40°	3917.3	4131.6	4260.2	4442.4	4624.6	5021.2	5128.4	5090.8	5015.8
2679.4	42.5°	2781.2	2947.3	3108.1	3284.9	3381.4	3627.9	3836.9	3777.9	3745.8
2036.3	45°	2111.4	2261.4	2449.0	2582.9	2679.4	2824.1	3022.4	3043.8	2995.6
1634.4	47.5°	1693.4	1827.3	1977.4	2143.5	2256.0	2347.1	2518.6	2582.9	2550.8
1377.2	50°	1436.2	1538.0	1682.7	1848.8	1972.0	2052.4	2202.5	2272.1	2250.7
1152.1	52.5°	1221.8	1345.1	1479.0	1618.4	1768.4	1848.8	1988.1	2089.9	2073.9
953.9	55°	1012.8	1173.6	1312.9	1452.2	1623.7	1704.1	1827.3	1961.3	1934.5
809.2	57.5°	884.2	1018.2	1162.9	1296.8	1479.0	1586.2	1698.7	1838.1	1832.7
664.5	60°	739.5	873.5	1034.2	1146.8	1339.7	1489.7	1591.6	1736.2	1747.0
503.7	62.5°	589.5	755.6	878.8	1034.2	1211.1	1387.9	1484.4	1629.1	1682.7
385.8	65°	439.4	621.6	760.9	916.4	1082.5	1280.7	1366.5	1511.2	1564.8
278.7	67.5°	326.9	466.2	643.1	777.0	964.6	1136.1	1237.9	1371.8	1409.4
166.1	70°	246.5	359.0	535.9	653.8	846.7	986.0	1087.8	1189.7	1237.9
112.5	72.5°	144.7	267.9	423.3	562.7	728.8	846.7	921.7	1002.1	1034.2
53.6	75°	101.8	203.6	332.2	466.2	589.5	685.9	755.6	825.3	857.4
26.8	77.5°	53.6	150.0	262.6	375.1	460.9	541.2	610.9	664.5	685.9
21.4	80°	32.2	107.2	214.4	294.7	353.7	423.3	493.0	530.5	525.2
16.1	82.5°	21.4	85.7	155.4	214.4	257.2	310.8	359.0	385.8	385.8
10.7	85°	16.1	58.9	107.2	166.1	171.5	214.4	225.1	251.9	257.2
10.7	87.5°	10.7	37.5	58.9	96.5	91.1	112.5	117.9	134.0	144.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
64739.5
65007.4
66824.1
67451.0
66475.7
64637.7
61663.6
56481.6
50152.9
42655.9
35855.6
28728.5
22442.6
16103.2
10497.9
7079.0
5026.5
3719.0
2990.2
2534.7
2245.3
2063.1
1934.5
1827.3
1747.0
1677.3
1559.4
1409.4
1227.2
1023.5
846.7
680.6
519.8
380.5
251.9
139.3
0.0

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