

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: P638680

Luminaire Tested: **EPH-VN-06-E-735-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638680
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-735-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49022.4 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

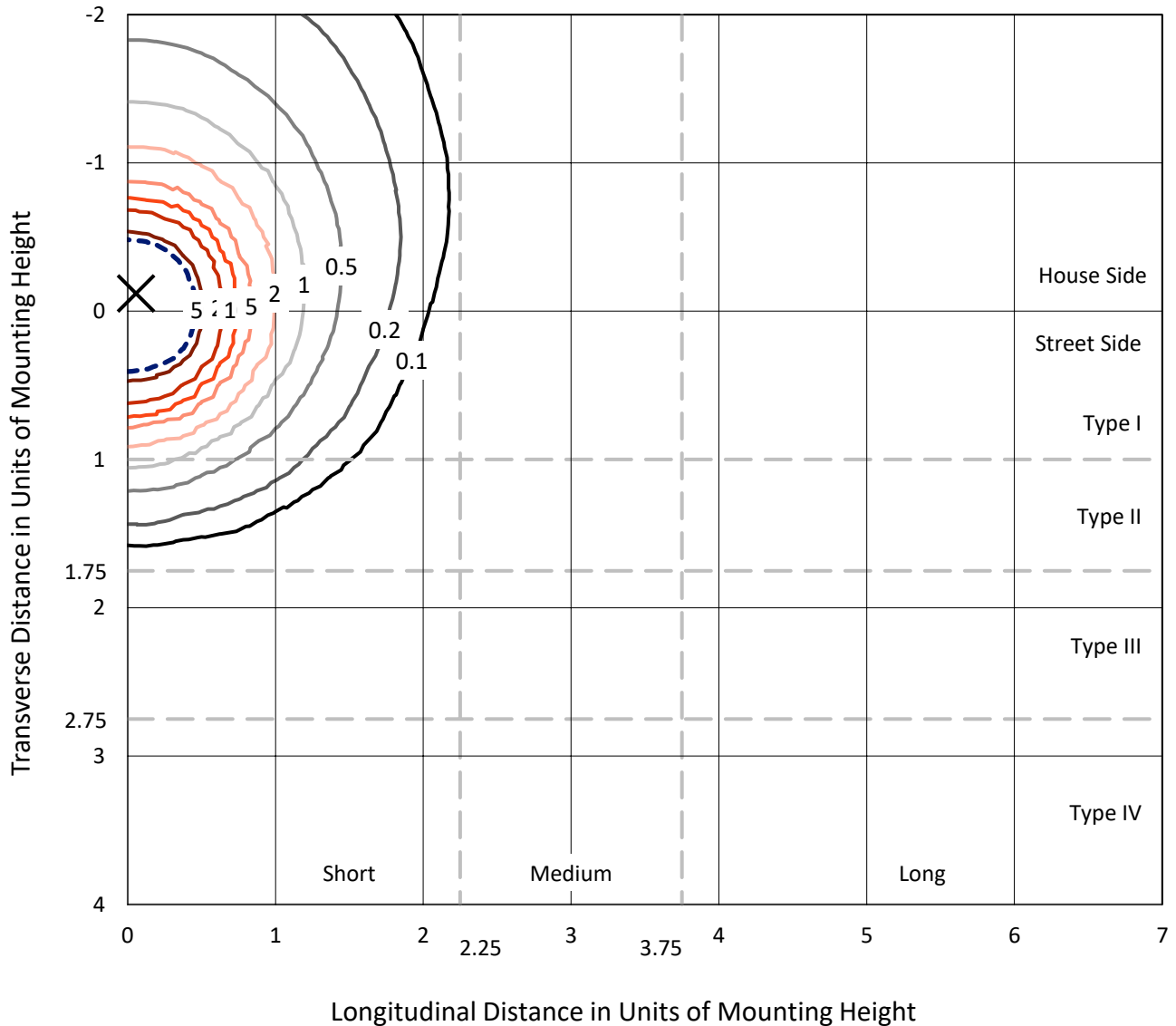
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

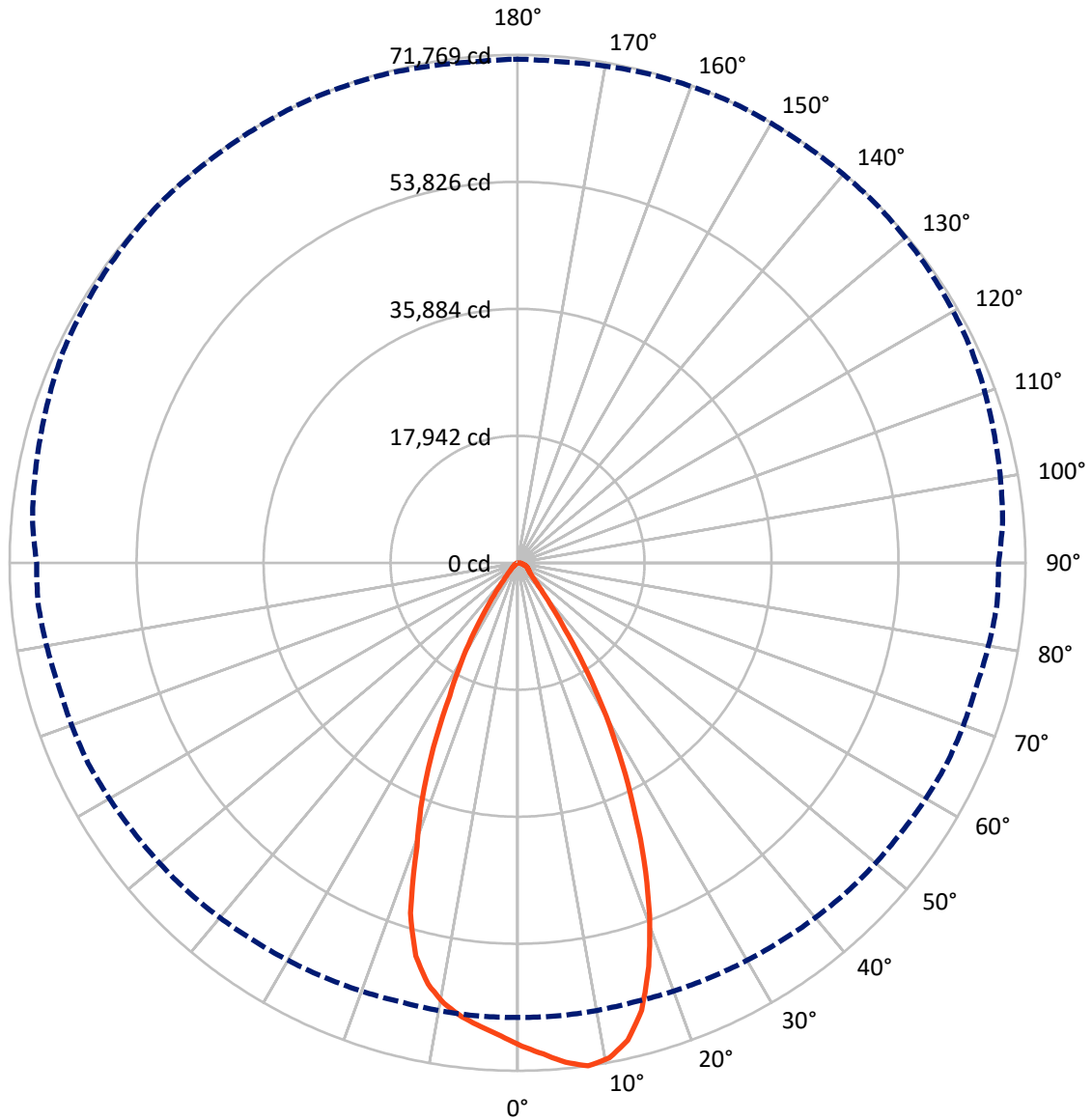
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 173.5 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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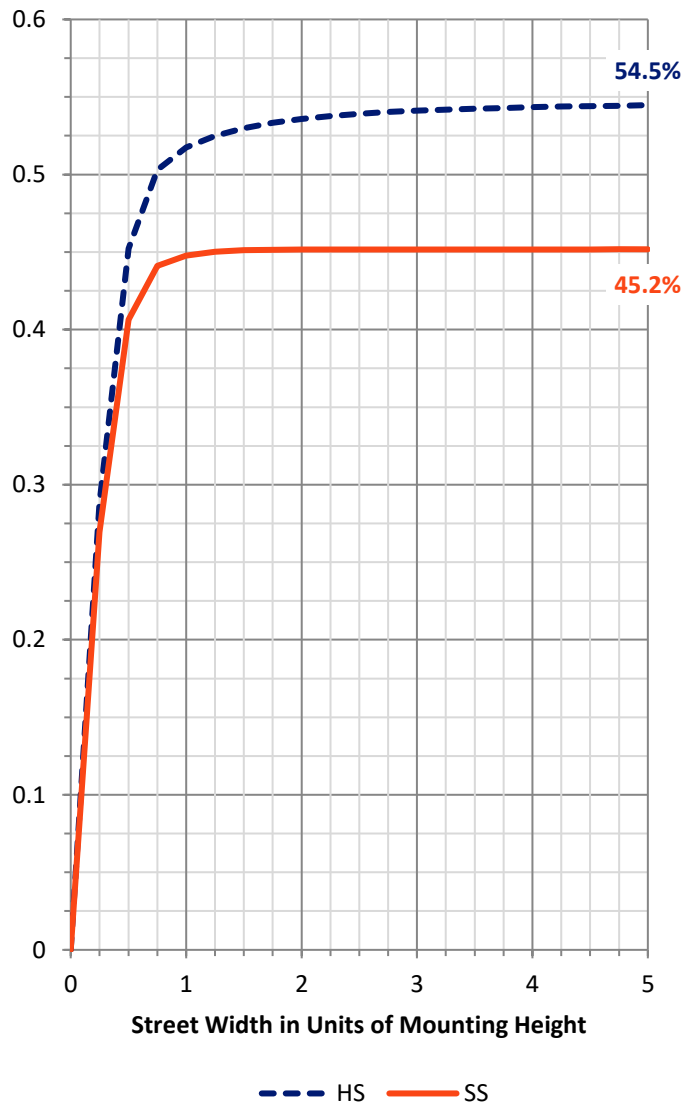
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27062.2	0.0	27062.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	21960.3	0.0	21960.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	49022.4	0.0	49022.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6512.1	13.3
10°-20°	16885.9	34.4
20°-30°	15472.2	31.6
30°-40°	6250.8	12.8
40°-50°	1833.7	3.7
50°-60°	1025.3	2.1
60°-70°	622.7	1.3
70°-80°	316.4	0.6
80°-90°	103.5	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°	49022.4	100.0
0°-180°	49022.4	100.0

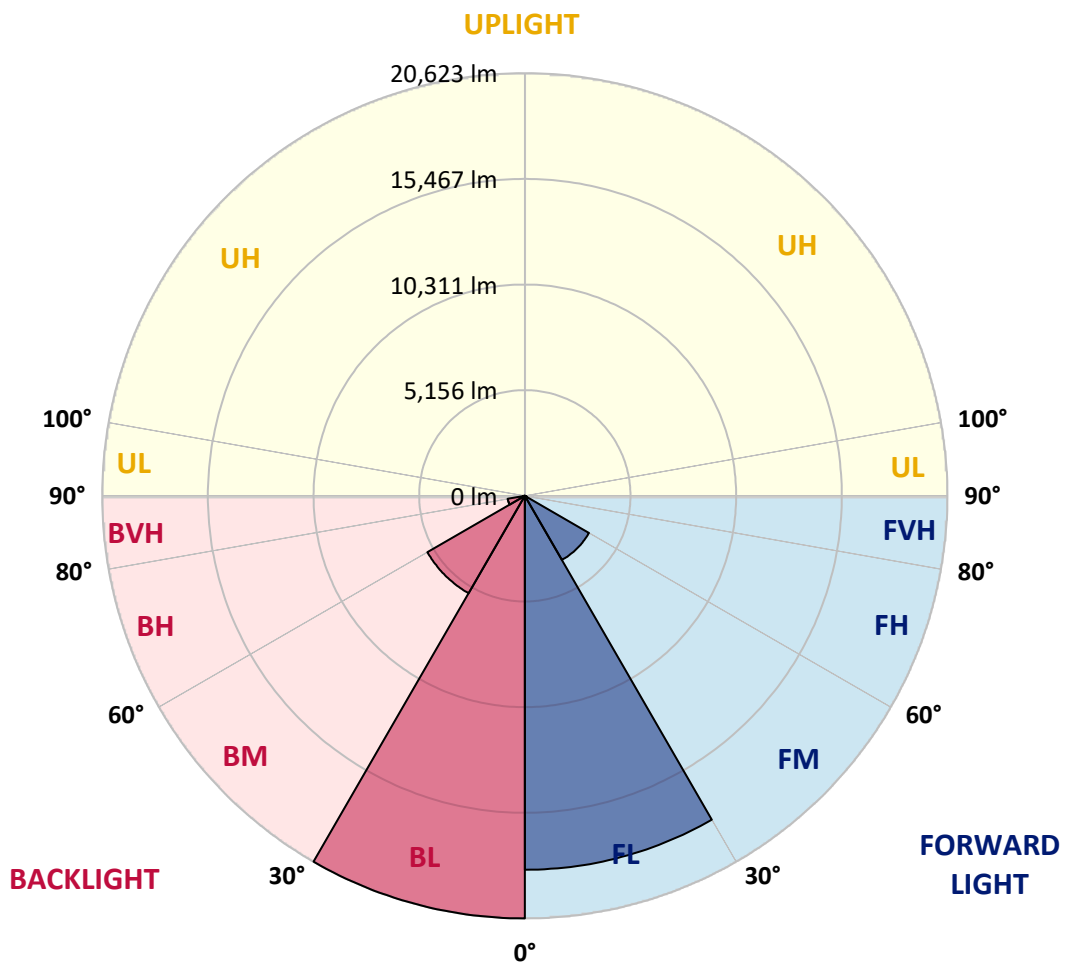


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18247.4	37.2			
FM (30°-60°)	3616.3	7.4			
FH (60°-80°)	87.6	0.2			G0/660
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	20622.8	42.1	B5		
BM (30°-60°)	5493.4	11.2	B4/8500		
BH (60°-80°)	851.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	94.5	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°	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0
2.5°	66811.0	67037.1	66584.9	66884.5	67116.2	67670.2	67715.4	67907.6	67975.5	68478.6
5°	65544.7	65720.0	65352.5	65753.9	66081.8	66573.6	66952.3	67483.7	67777.6	68371.2
7.5°	64227.6	64267.2	64193.7	64617.7	65109.5	65787.8	66257.0	66952.3	67133.2	67981.1
10°	62633.5	62345.2	62486.6	63108.4	63843.2	64883.4	65205.6	65900.9	66223.1	67088.0
12.5°	60089.7	60236.7	60061.5	60852.9	61463.4	62644.8	62984.0	63685.0	64301.1	65064.3
15°	56505.8	56421.1	56777.2	57393.3	58054.7	58993.1	59541.4	60304.6	60773.7	61565.1
17.5°	48450.5	48738.8	50208.6	51751.8	53108.5	54205.1	54860.9	55494.0	55833.2	56692.4
20°	41842.4	41480.6	41678.4	42549.0	46409.9	48088.8	48778.4	48931.0	49072.4	49750.7
22.5°	34454.1	34335.4	34996.8	35974.7	36890.5	40762.7	41701.0	41344.9	41638.9	42277.6
25°	25584.8	26184.0	26771.9	28648.6	29835.7	31735.1	33515.7	33674.0	33781.4	34182.8
27.5°	20825.1	20615.9	20604.6	21130.3	22882.7	24465.5	25980.5	26331.0	26268.8	26653.2
30°	16370.6	16302.8	16065.4	16189.7	16014.5	17422.1	18134.3	19575.8	19496.7	19508.0
32.5°	11808.8	11554.4	11458.3	11644.9	11464.0	11334.0	11955.8	13583.8	13555.5	13668.6
35°	7145.2	7111.3	7190.4	7354.4	6992.6	6981.3	7111.3	8643.2	8829.7	9010.6
37.5°	3945.7	3911.8	3974.0	4578.8	4460.1	4352.7	4386.6	5195.0	5732.0	5867.7
40°	2600.3	2594.7	2639.9	2747.3	2950.8	2911.2	2928.2	3290.0	3798.7	3917.4
42.5°	1741.1	1746.7	1775.0	1899.4	1927.6	2131.1	2097.2	2182.0	2656.8	2758.6
45°	1390.6	1384.9	1401.9	1345.4	1379.3	1588.4	1611.1	1616.7	2023.7	2085.9
47.5°	1096.7	1096.7	1113.6	1040.1	1023.2	1153.2	1271.9	1288.8	1616.7	1701.5
50°	768.8	768.8	853.6	819.7	859.2	898.8	1028.8	1045.8	1322.8	1413.2
52.5°	565.3	576.6	587.9	593.5	723.6	717.9	831.0	910.1	1000.6	1158.8
55°	429.6	440.9	412.7	440.9	537.0	599.2	621.8	734.9	797.1	972.3
57.5°	282.6	310.9	288.3	339.2	361.8	463.5	497.5	604.9	644.4	797.1
60°	39.6	45.2	73.5	237.4	254.4	305.3	384.4	480.5	520.1	650.1
62.5°	5.7	5.7	17.0	39.6	169.6	203.5	288.3	333.5	384.4	486.1
65°	0.0	0.0	5.7	11.3	33.9	118.7	147.0	180.9	265.7	350.5
67.5°	0.0	0.0	5.7	11.3	17.0	39.6	62.2	118.7	152.6	243.1
70°	0.0	0.0	5.7	11.3	17.0	22.6	33.9	45.2	90.4	141.3
72.5°	0.0	0.0	5.7	11.3	17.0	22.6	28.3	33.9	39.6	90.4
75°	0.0	0.0	5.7	11.3	17.0	28.3	33.9	33.9	33.9	39.6
77.5°	0.0	0.0	5.7	11.3	22.6	33.9	39.6	33.9	28.3	28.3
80°	0.0	0.0	5.7	17.0	28.3	39.6	45.2	33.9	22.6	17.0
82.5°	0.0	0.0	5.7	17.0	28.3	39.6	45.2	39.6	22.6	17.0
85°	0.0	0.0	5.7	17.0	22.6	28.3	45.2	39.6	22.6	11.3
87.5°	0.0	0.0	0.0	5.7	5.7	11.3	22.6	17.0	11.3	5.7
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°
68292.0	0°	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0	68292.0
68467.3	2.5°	68976.0	69230.4	69677.0	69801.3	70185.7	69744.8	69501.7	69524.3	68998.6
68297.7	5°	68976.0	69558.3	70338.4	70711.4	70994.1	70971.5	70909.3	70751.0	70366.6
67958.5	7.5°	68795.1	69744.8	70818.8	71316.3	71655.5	71627.2	71768.5	71514.1	71045.0
67353.7	10°	68212.9	69038.2	70361.0	70768.0	71316.3	71327.6	71152.4	71203.2	70366.6
65143.4	12.5°	66381.4	67025.8	68184.6	68648.2	69315.2	69422.6	69230.4	69156.9	68365.5
61519.9	15°	62837.0	63210.1	64374.6	64838.1	65499.5	65409.1	65601.3	65522.1	64826.8
56624.6	17.5°	57653.4	57772.1	58993.1	59383.1	60005.0	60248.0	59959.7	60327.2	59728.0
49869.4	20°	50219.9	50858.7	52232.3	52831.5	53193.3	53628.5	53249.8	53662.5	52961.5
41672.8	22.5°	42679.0	43057.7	44301.3	45166.2	45838.9	45923.7	45782.4	46070.7	45126.7
34448.4	25°	34442.8	35070.3	36053.8	37184.4	37845.8	38252.8	37885.4	38071.9	37919.3
26715.3	27.5°	27167.6	27727.2	28467.7	29310.0	30304.9	30836.3	30542.3	30858.9	30112.7
19920.6	30°	19937.6	20220.2	21056.8	21950.0	23041.0	23685.4	23713.7	24035.9	23595.0
13956.9	32.5°	14058.6	14307.4	14821.8	15415.3	16455.4	17173.3	17060.3	17105.5	16834.2
9095.4	35°	9140.7	9474.2	9841.6	10124.2	10751.7	11543.1	11480.9	11424.4	11237.9
5980.7	37.5°	6110.7	6240.7	6444.2	6698.6	7105.6	7603.1	7767.0	7563.5	7484.4
4036.1	40°	4132.2	4358.3	4494.0	4686.2	4878.4	5296.7	5409.8	5370.2	5291.1
2826.4	42.5°	2933.8	3109.1	3278.7	3465.2	3566.9	3827.0	4047.4	3985.3	3951.3
2148.1	45°	2227.2	2385.5	2583.4	2724.7	2826.4	2979.0	3188.2	3210.8	3159.9
1724.1	47.5°	1786.3	1927.6	2085.9	2261.1	2379.8	2475.9	2656.8	2724.7	2690.8
1452.8	50°	1515.0	1622.4	1775.0	1950.2	2080.2	2165.0	2323.3	2396.8	2374.2
1215.4	52.5°	1288.8	1418.9	1560.2	1707.2	1865.4	1950.2	2097.2	2204.6	2187.7
1006.2	55°	1068.4	1238.0	1384.9	1531.9	1712.8	1797.6	1927.6	2068.9	2040.7
853.6	57.5°	932.7	1074.0	1226.7	1368.0	1560.2	1673.2	1792.0	1938.9	1933.3
701.0	60°	780.1	921.4	1091.0	1209.7	1413.2	1571.5	1678.9	1831.5	1842.8
531.4	62.5°	621.8	797.1	927.1	1091.0	1277.5	1464.1	1565.8	1718.5	1775.0
407.0	65°	463.5	655.7	802.7	966.6	1141.9	1351.0	1441.5	1594.1	1650.6
293.9	67.5°	344.8	491.8	678.3	819.7	1017.5	1198.4	1305.8	1447.1	1486.7
175.2	70°	260.0	378.7	565.3	689.6	893.1	1040.1	1147.5	1254.9	1305.8
118.7	72.5°	152.6	282.6	446.6	593.5	768.8	893.1	972.3	1057.1	1091.0
56.5	75°	107.4	214.8	350.5	491.8	621.8	723.6	797.1	870.5	904.5
28.3	77.5°	56.5	158.3	277.0	395.7	486.1	570.9	644.4	701.0	723.6
22.6	80°	33.9	113.1	226.1	310.9	373.1	446.6	520.1	559.6	554.0
17.0	82.5°	22.6	90.4	163.9	226.1	271.3	327.9	378.7	407.0	407.0
11.3	85°	17.0	62.2	113.1	175.2	180.9	226.1	237.4	265.7	271.3
11.3	87.5°	11.3	39.6	62.2	101.8	96.1	118.7	124.4	141.3	152.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
68292.0
68574.7
70491.0
71152.4
70123.5
68184.6
65047.3
59581.0
52905.0
44996.6
37823.2
30304.9
23674.1
16986.8
11073.9
7467.4
5302.4
3923.1
3154.3
2673.8
2368.5
2176.3
2040.7
1927.6
1842.8
1769.3
1645.0
1486.7
1294.5
1079.7
893.1
717.9
548.3
401.4
265.7
147.0
0.0

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