

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: P638708

Luminaire Tested: **EPH-VN-03-E-935-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638708
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-935-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16823.9 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

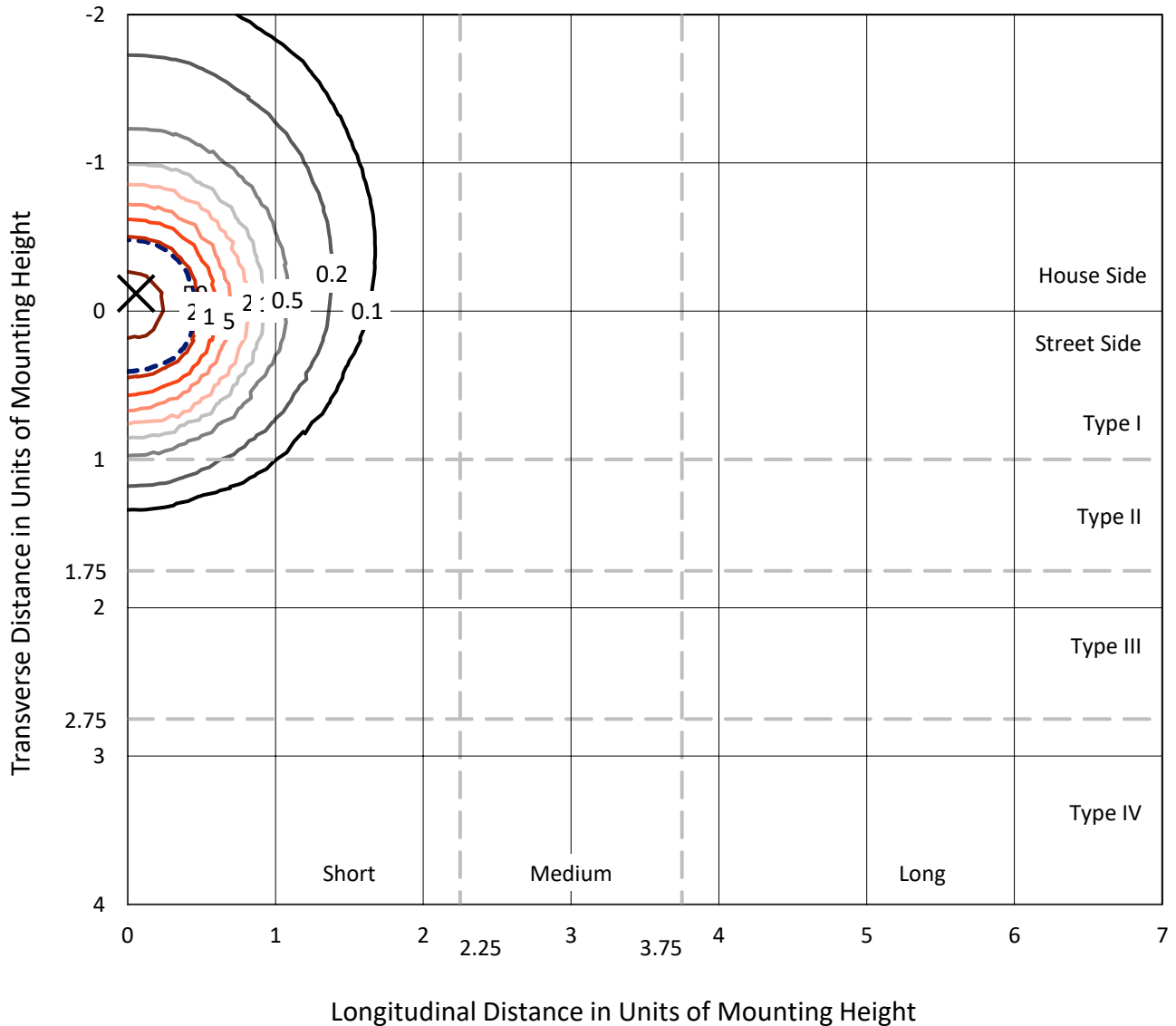
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

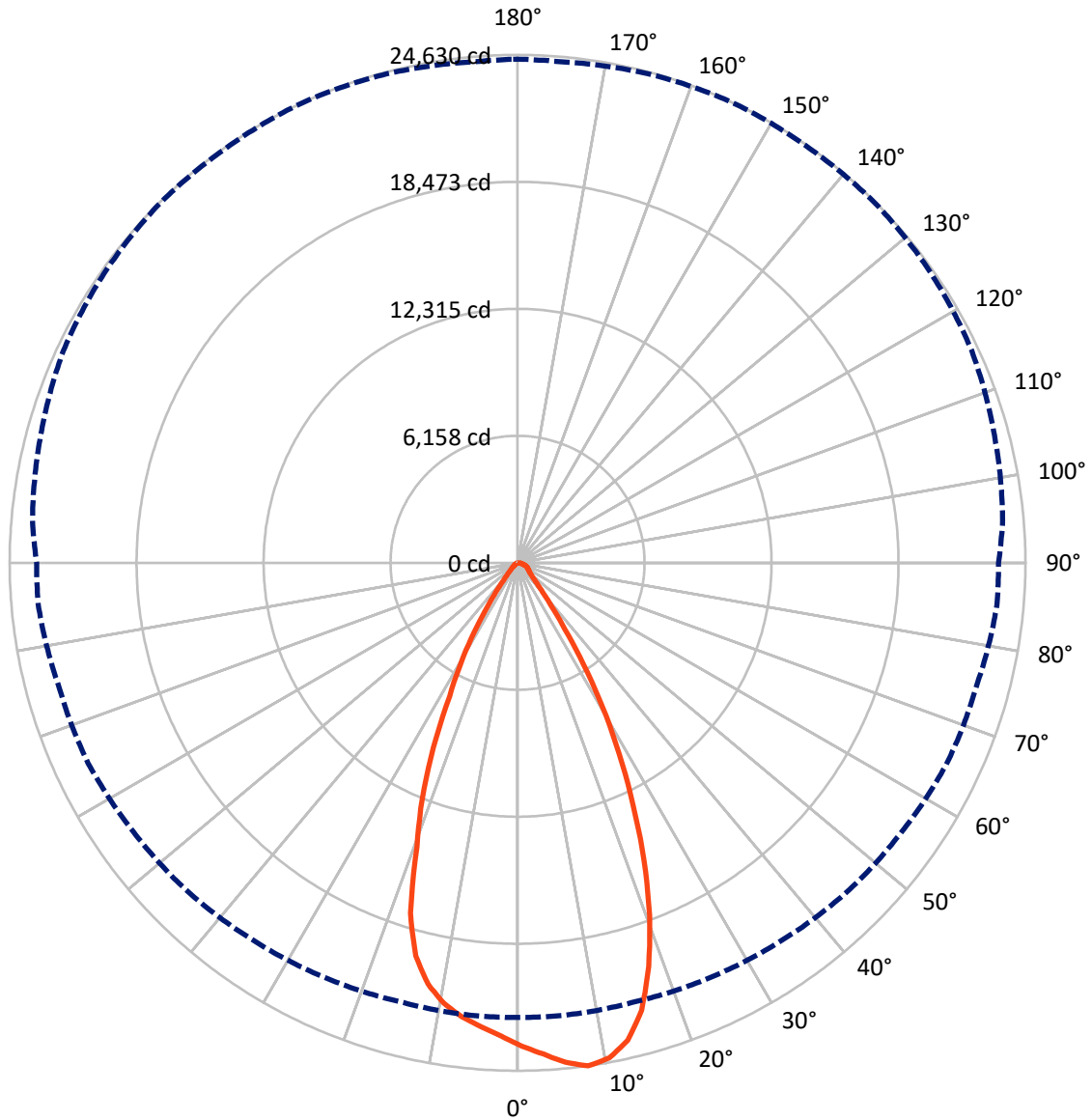
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 59.6 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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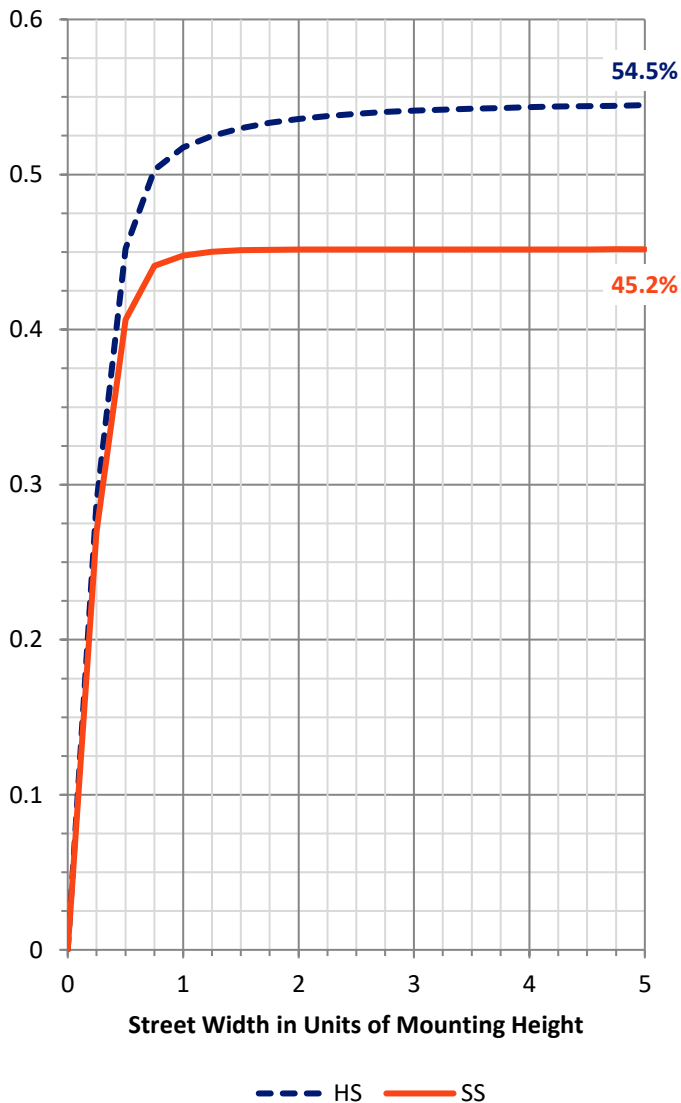
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9287.4	0.0	9287.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7536.5	0.0	7536.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	16823.9	0.0	16823.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2234.9	13.3
10°-20°	5795.0	34.4
20°-30°	5309.9	31.6
30°-40°	2145.2	12.8
40°-50°	629.3	3.7
50°-60°	351.9	2.1
60°-70°	213.7	1.3
70°-80°	108.6	0.6
80°-90°	35.5	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°	16823.9	100.0
0°-180°	16823.9	100.0



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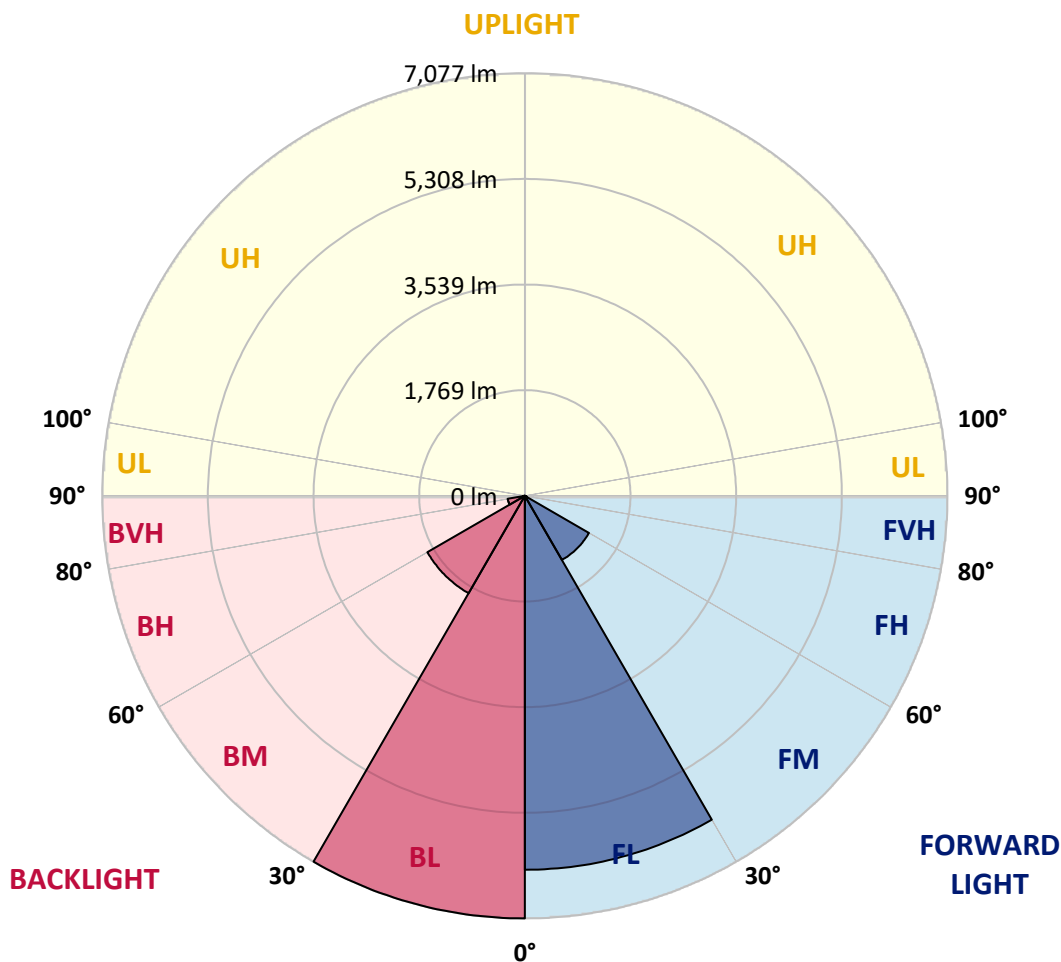
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6262.3	37.2			
FM (30°-60°)	1241.1	7.4			
FH (60°-80°)	30.1	0.2			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	7077.5	42.1	B5		
BM (30°-60°)	1885.3	11.2	B2/2500		
BH (60°-80°)	292.2	1.7	B1/500		G1/500
BVH (80°-90°)	32.4	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0
2.5°	22928.7	23006.3	22851.1	22953.9	23033.5	23223.6	23239.1	23305.1	23328.3	23501.0
5°	22494.1	22554.3	22428.2	22565.9	22678.4	22847.2	22977.2	23159.6	23260.4	23464.1
7.5°	22042.1	22055.7	22030.5	22176.0	22344.8	22577.6	22738.6	22977.2	23039.3	23330.3
10°	21495.1	21396.1	21444.6	21658.0	21910.2	22267.2	22377.8	22616.4	22726.9	23023.8
12.5°	20622.1	20672.5	20612.4	20884.0	21093.5	21498.9	21615.3	21855.9	22067.4	22329.3
15°	19392.1	19363.0	19485.2	19696.7	19923.7	20245.7	20433.9	20695.8	20856.8	21128.4
17.5°	16627.6	16726.6	17231.0	17760.6	18226.2	18602.5	18827.6	19044.9	19161.3	19456.1
20°	14359.8	14235.6	14303.5	14602.3	15927.3	16503.5	16740.1	16792.5	16841.0	17073.8
22.5°	11824.2	11783.5	12010.5	12346.1	12660.4	13989.2	14311.3	14189.1	14289.9	14509.2
25°	8780.4	8986.0	9187.8	9831.9	10239.3	10891.1	11502.2	11556.5	11593.4	11731.1
27.5°	7146.9	7075.1	7071.3	7251.7	7853.1	8396.3	8916.2	9036.5	9015.1	9147.0
30°	5618.2	5594.9	5513.4	5556.1	5496.0	5979.0	6223.5	6718.2	6691.0	6694.9
32.5°	4052.6	3965.3	3932.4	3996.4	3934.3	3889.7	4103.1	4661.8	4652.1	4690.9
35°	2452.1	2440.5	2467.7	2523.9	2399.8	2395.9	2440.5	2966.2	3030.3	3092.3
37.5°	1354.1	1342.5	1363.8	1571.4	1530.6	1493.8	1505.4	1782.8	1967.1	2013.7
40°	892.4	890.5	906.0	942.8	1012.7	999.1	1004.9	1129.1	1303.7	1344.4
42.5°	597.5	599.5	609.2	651.8	661.5	731.4	719.7	748.8	911.8	946.7
45°	477.2	475.3	481.1	461.7	473.4	545.1	552.9	554.8	694.5	715.9
47.5°	376.4	376.4	382.2	357.0	351.1	395.8	436.5	442.3	554.8	583.9
50°	263.8	263.8	292.9	281.3	294.9	308.5	353.1	358.9	454.0	485.0
52.5°	194.0	197.9	201.8	203.7	248.3	246.4	285.2	312.3	343.4	397.7
55°	147.4	151.3	141.6	151.3	184.3	205.6	213.4	252.2	273.5	333.7
57.5°	97.0	106.7	98.9	116.4	124.2	159.1	170.7	207.6	221.2	273.5
60°	13.6	15.5	25.2	81.5	87.3	104.8	131.9	164.9	178.5	223.1
62.5°	1.9	1.9	5.8	13.6	58.2	69.8	98.9	114.5	131.9	166.8
65°	0.0	0.0	1.9	3.9	11.6	40.7	50.4	62.1	91.2	120.3
67.5°	0.0	0.0	1.9	3.9	5.8	13.6	21.3	40.7	52.4	83.4
70°	0.0	0.0	1.9	3.9	5.8	7.8	11.6	15.5	31.0	48.5
72.5°	0.0	0.0	1.9	3.9	5.8	7.8	9.7	11.6	13.6	31.0
75°	0.0	0.0	1.9	3.9	5.8	9.7	11.6	11.6	11.6	13.6
77.5°	0.0	0.0	1.9	3.9	7.8	11.6	13.6	11.6	9.7	9.7
80°	0.0	0.0	1.9	5.8	9.7	13.6	15.5	11.6	7.8	5.8
82.5°	0.0	0.0	1.9	5.8	9.7	13.6	15.5	13.6	7.8	5.8
85°	0.0	0.0	1.9	5.8	7.8	9.7	15.5	13.6	7.8	3.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.9	7.8	5.8	3.9	1.9
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°
23437.0	0°	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0	23437.0
23497.1	2.5°	23671.7	23759.0	23912.3	23955.0	24086.9	23935.6	23852.1	23859.9	23679.5
23438.9	5°	23671.7	23871.5	24139.3	24267.3	24364.3	24356.5	24335.2	24280.9	24149.0
23322.5	7.5°	23609.6	23935.6	24304.2	24474.9	24591.3	24581.6	24630.1	24542.8	24381.8
23114.9	10°	23409.8	23693.1	24147.0	24286.7	24474.9	24478.8	24418.6	24436.1	24149.0
22356.4	12.5°	22781.3	23002.4	23400.1	23559.2	23788.1	23825.0	23759.0	23733.8	23462.2
21112.9	15°	21564.9	21692.9	22092.6	22251.7	22478.6	22447.6	22513.5	22486.4	22247.8
19432.8	17.5°	19785.9	19826.7	20245.7	20379.6	20593.0	20676.4	20577.4	20703.5	20497.9
17114.6	20°	17234.8	17454.1	17925.5	18131.1	18255.3	18404.7	18274.7	18416.3	18175.7
14301.6	22.5°	14646.9	14776.9	15203.7	15500.5	15731.4	15760.5	15712.0	15810.9	15486.9
11822.3	25°	11820.3	12035.7	12373.2	12761.2	12988.2	13127.9	13001.8	13065.8	13013.4
9168.4	27.5°	9323.6	9515.6	9769.8	10058.8	10400.3	10582.6	10481.7	10590.4	10334.3
6836.5	30°	6842.3	6939.3	7226.5	7533.0	7907.4	8128.5	8138.2	8248.8	8097.5
4789.8	32.5°	4824.7	4910.1	5086.6	5290.3	5647.3	5893.7	5854.9	5870.4	5777.3
3121.4	35°	3137.0	3251.4	3377.5	3474.5	3689.9	3961.5	3940.1	3920.7	3856.7
2052.5	37.5°	2097.1	2141.7	2211.6	2298.9	2438.6	2609.3	2665.5	2595.7	2568.5
1385.2	40°	1418.1	1495.7	1542.3	1608.2	1674.2	1817.8	1856.6	1843.0	1815.8
970.0	42.5°	1006.9	1067.0	1125.2	1189.2	1224.1	1313.4	1389.0	1367.7	1356.1
737.2	45°	764.4	818.7	886.6	935.1	970.0	1022.4	1094.2	1101.9	1084.5
591.7	47.5°	613.0	661.5	715.9	776.0	816.7	849.7	911.8	935.1	923.4
498.6	50°	519.9	556.8	609.2	669.3	713.9	743.0	797.3	822.6	814.8
417.1	52.5°	442.3	486.9	535.4	585.9	640.2	669.3	719.7	756.6	750.8
345.3	55°	366.7	424.9	475.3	525.7	587.8	616.9	661.5	710.0	700.3
292.9	57.5°	320.1	368.6	421.0	469.5	535.4	574.2	615.0	665.4	663.5
240.6	60°	267.7	316.2	374.4	415.2	485.0	539.3	576.2	628.6	632.4
182.4	62.5°	213.4	273.5	318.2	374.4	438.4	502.5	537.4	589.8	609.2
139.7	65°	159.1	225.0	275.5	331.7	391.9	463.7	494.7	547.1	566.5
100.9	67.5°	118.3	168.8	232.8	281.3	349.2	411.3	448.1	496.6	510.2
60.1	70°	89.2	130.0	194.0	236.7	306.5	357.0	393.8	430.7	448.1
40.7	72.5°	52.4	97.0	153.3	203.7	263.8	306.5	333.7	362.8	374.4
19.4	75°	36.9	73.7	120.3	168.8	213.4	248.3	273.5	298.8	310.4
9.7	77.5°	19.4	54.3	95.1	135.8	166.8	195.9	221.2	240.6	248.3
7.8	80°	11.6	38.8	77.6	106.7	128.0	153.3	178.5	192.1	190.1
5.8	82.5°	7.8	31.0	56.3	77.6	93.1	112.5	130.0	139.7	139.7
3.9	85°	5.8	21.3	38.8	60.1	62.1	77.6	81.5	91.2	93.1
3.9	87.5°	3.9	13.6	21.3	34.9	33.0	40.7	42.7	48.5	52.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23437.0
23534.0
24191.6
24418.6
24065.5
23400.1
22323.4
20447.5
18156.3
15442.3
12980.5
10400.3
8124.7
5829.7
3800.4
2562.7
1819.7
1346.4
1082.5
917.6
812.9
746.9
700.3
661.5
632.4
607.2
564.5
510.2
444.3
370.5
306.5
246.4
188.2
137.7
91.2
50.4
0.0

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