

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: P638783

Luminaire Tested: **EPH-VN-07-E-730-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638783
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-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39539.7 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

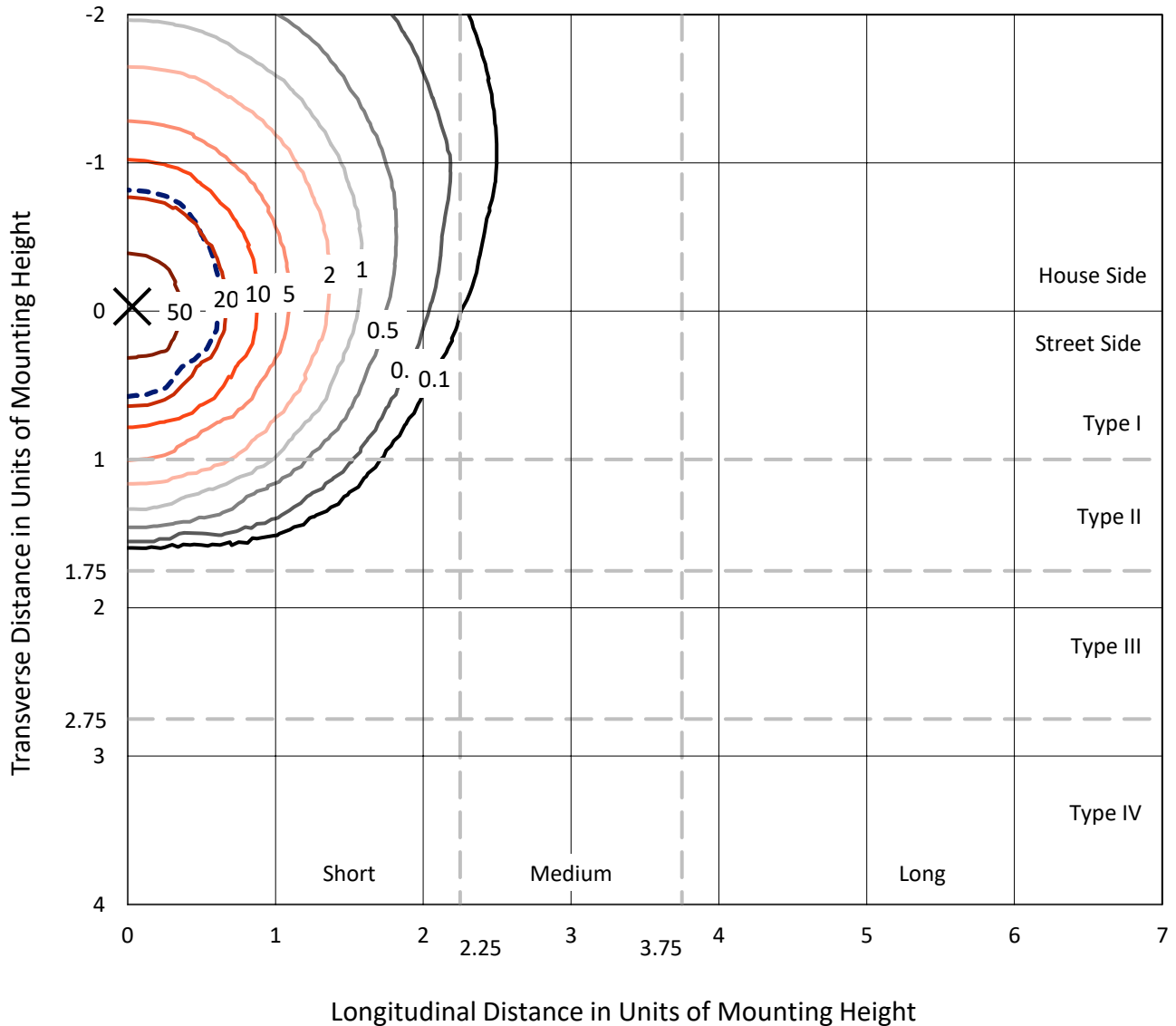
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

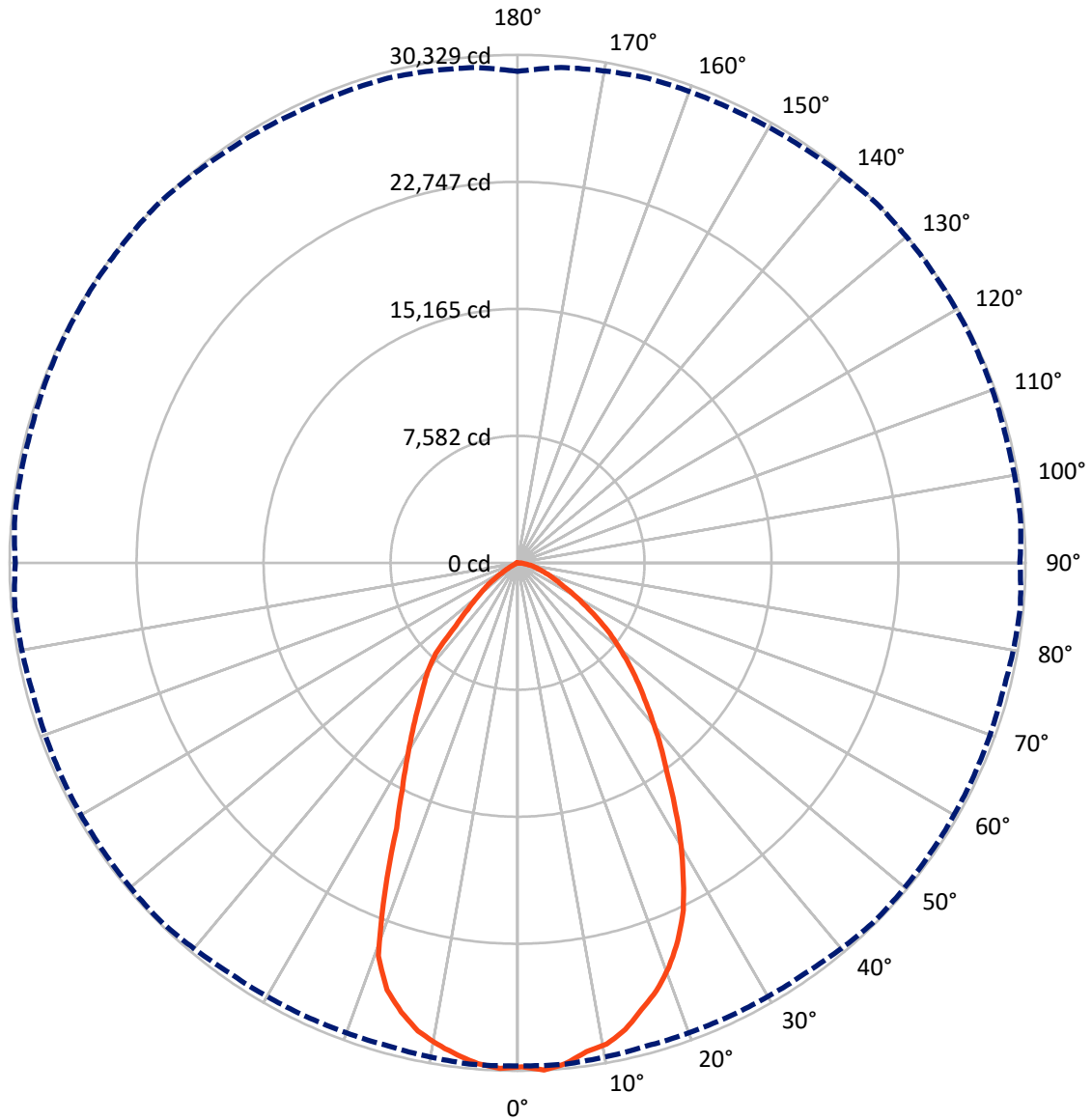
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 75.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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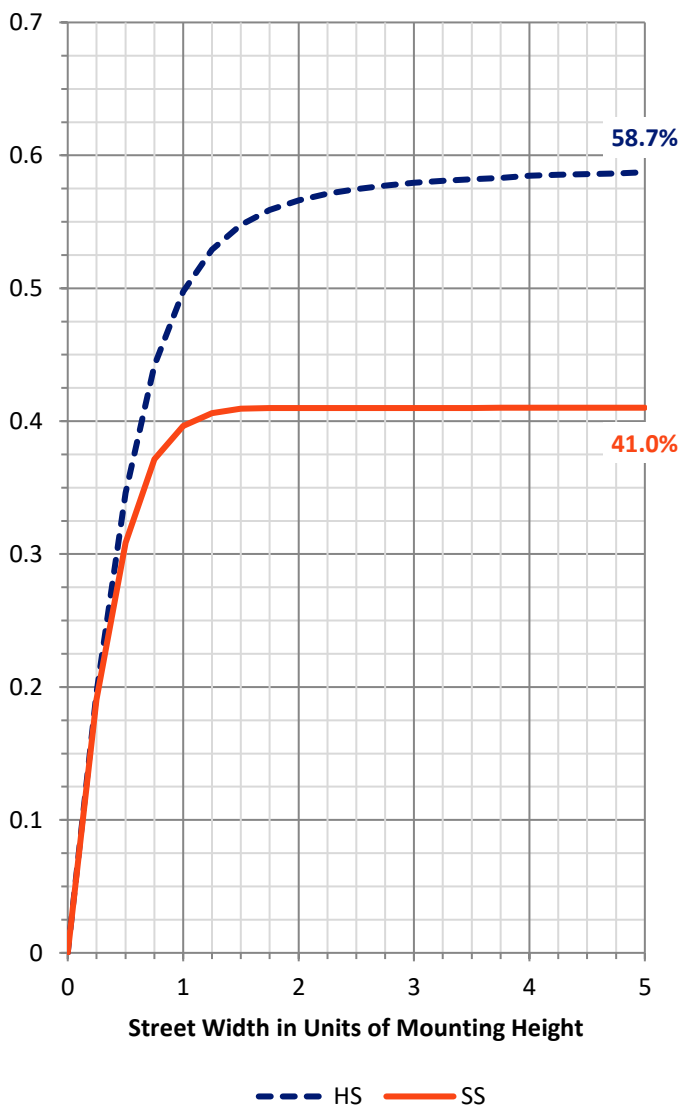
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23417.4	0.0	23417.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	16122.3	0.0	16122.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	39539.7	0.0	39539.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2821.9	7.1
10°-20°	7567.2	19.1
20°-30°	9228.6	23.3
30°-40°	8425.6	21.3
40°-50°	6089.0	15.4
50°-60°	3324.7	8.4
60°-70°	1374.6	3.5
70°-80°	556.7	1.4
80°-90°	151.4	0.4
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°	39539.7	100.0
0°-180°	39539.7	100.0



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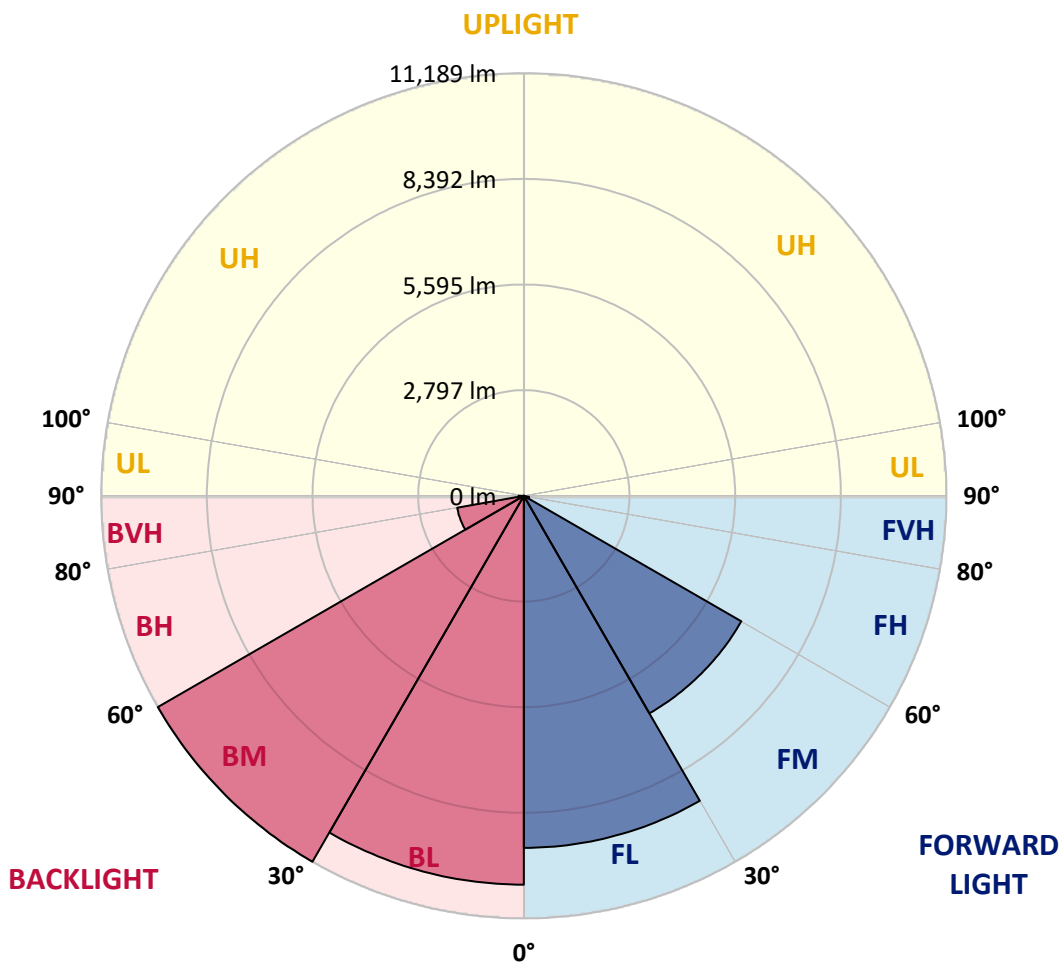
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9321.0	23.6			
FM (30°-60°)	6649.8	16.8			
FH (60°-80°)	139.3	0.4			G0/660
FVH (80°-90°)	12.1	0.0			G1/100
BL (0°-30°)	10296.7	26.0	B5		
BM (30°-60°)	11189.4	28.3	B5		
BH (60°-80°)	1792.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	139.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6
2.5°	30033.9	30072.9	29861.3	29883.6	29922.5	30206.5	30134.1	30067.3	29972.6	30134.1
5°	29994.9	30017.2	29794.5	29716.5	29749.9	30006.0	29772.2	29772.2	29749.9	29722.1
7.5°	29694.2	29705.4	29532.8	29393.6	29482.7	29599.6	29427.0	29510.5	29388.0	29482.7
10°	29243.2	29170.8	28964.8	28925.9	29026.1	29137.4	29020.5	29098.5	28987.1	29059.5
12.5°	28580.6	28469.3	28302.2	28252.1	28424.7	28575.1	28480.4	28435.9	28291.1	28469.3
15°	26024.9	25941.4	26320.0	26982.6	27578.4	27706.5	27606.2	27650.8	27350.1	27400.2
17.5°	21420.2	21264.3	21670.7	23240.9	25479.2	26659.7	26570.6	26281.0	25835.6	25935.8
20°	19465.8	19421.2	19376.7	19749.8	21314.4	24894.6	25017.1	24282.1	23647.4	23508.2
22.5°	18363.3	18346.6	18302.1	18385.6	18797.6	21097.2	22500.4	21821.1	21397.9	21358.9
25°	17355.5	17327.7	17194.0	17299.8	17299.8	17433.5	19231.9	19644.0	19270.9	19226.4
27.5°	16331.0	16280.9	16258.6	16308.7	16052.6	15150.6	15607.2	17617.2	17422.3	17433.5
30°	15223.0	15206.3	15145.0	15250.8	14460.1	13341.0	13051.4	15779.8	15818.7	15807.6
32.5°	13574.8	13647.2	13925.6	14042.5	12739.6	11815.3	11330.9	13652.8	14449.0	14432.3
35°	9861.0	9861.0	10768.5	12455.7	11163.9	10467.9	10206.2	11575.9	13096.0	13151.7
37.5°	8107.0	8134.9	8313.1	9081.4	9632.7	9387.7	9309.7	9744.0	11358.8	11447.8
40°	7294.1	7294.1	7294.1	6976.7	6960.0	8457.8	8413.3	8274.1	9810.8	10005.7
42.5°	6553.6	6570.3	6581.4	5779.6	5334.2	7310.8	7210.6	6999.0	8424.4	8652.7
45°	5790.7	5818.6	5852.0	4833.0	4638.2	5261.8	6102.5	5868.7	7054.7	7349.8
47.5°	3535.7	3580.2	4337.5	4098.1	4120.3	4059.1	4977.8	4938.8	5785.2	6202.8
50°	2388.7	2405.4	2477.8	2600.3	3535.7	3190.5	3524.6	4086.9	4393.2	5027.9
52.5°	2004.5	2032.3	1854.1	1687.1	2321.9	2494.5	2461.1	3034.6	3157.1	3942.2
55°	1408.7	1497.8	1414.3	1397.6	1319.6	1937.7	1865.3	2333.0	2411.0	2995.6
57.5°	144.8	167.0	289.5	1041.2	863.0	1096.9	1330.8	1709.4	1787.3	2210.5
60°	11.1	11.1	27.8	144.8	629.2	657.0	918.7	1052.4	1202.7	1542.3
62.5°	0.0	5.6	11.1	22.3	100.2	350.8	462.1	551.2	723.8	996.7
65°	0.0	0.0	5.6	16.7	22.3	133.6	178.2	289.5	395.3	618.0
67.5°	0.0	0.0	5.6	11.1	16.7	33.4	61.2	105.8	211.6	350.8
70°	0.0	0.0	5.6	11.1	16.7	27.8	44.5	66.8	94.7	189.3
72.5°	0.0	0.0	5.6	5.6	11.1	27.8	33.4	44.5	66.8	94.7
75°	0.0	0.0	5.6	5.6	16.7	33.4	27.8	33.4	44.5	61.2
77.5°	0.0	0.0	5.6	11.1	16.7	33.4	27.8	33.4	33.4	39.0
80°	0.0	0.0	5.6	11.1	22.3	39.0	33.4	33.4	27.8	27.8
82.5°	0.0	0.0	5.6	16.7	22.3	50.1	50.1	44.5	22.3	16.7
85°	0.0	0.0	11.1	22.3	33.4	55.7	55.7	44.5	16.7	11.1
87.5°	0.0	0.0	11.1	16.7	27.8	39.0	55.7	44.5	16.7	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°
30089.6	0°	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6	30089.6
29994.9	2.5°	30145.2	30111.8	30223.2	30267.7	30329.0	30095.1	29950.4	29955.9	29688.7
29655.3	5°	29833.4	29839.0	29983.8	29972.6	30033.9	29905.8	29850.1	29755.5	29521.6
29226.5	7.5°	29438.1	29388.0	29527.2	29633.0	29477.1	29566.2	29438.1	29482.7	29343.5
28847.9	10°	29131.9	29014.9	29143.0	29215.4	29221.0	29131.9	29009.4	28892.4	28842.3
28257.7	12.5°	28452.6	28302.2	28519.4	28619.6	28602.9	28430.3	28291.1	28318.9	28157.5
27222.0	15°	27517.1	27522.7	27678.6	27773.3	27684.2	27645.2	27656.3	27589.5	27450.3
25791.1	17.5°	26086.2	26169.7	26581.7	26810.0	26860.1	26782.2	26743.2	26665.2	26526.0
23508.2	20°	23703.1	24204.2	24939.2	25646.3	25785.5	25763.2	25624.0	25590.6	25512.7
21247.6	22.5°	21609.5	21982.5	22834.4	23936.9	24504.8	24560.5	24393.5	24343.4	24259.9
19226.4	25°	19443.5	19844.4	20612.8	21809.9	22984.8	23224.2	23196.4	23046.0	22956.9
17433.5	27.5°	17617.2	18018.1	18714.1	19794.3	21052.7	21821.1	21893.4	21654.0	21648.5
15835.4	30°	15969.1	16520.3	17049.3	17929.0	19148.4	20301.0	20423.5	20256.4	20273.2
14371.1	32.5°	14677.3	15133.9	15584.9	16175.1	17188.5	18530.4	19009.2	18853.3	18792.1
13151.7	35°	13357.7	13669.5	14131.6	14671.7	15362.2	16692.9	17522.6	17405.6	17344.4
11503.5	37.5°	11854.3	12388.8	12722.9	13329.8	13869.9	14927.9	16097.1	16080.4	15952.4
10100.4	40°	10312.0	10874.3	11381.0	11993.5	12411.1	13251.9	14549.2	14543.7	14560.4
8647.1	42.5°	8914.4	9432.2	10044.7	10712.9	11113.8	11726.2	13118.2	13196.2	13290.9
7450.0	45°	7650.5	8118.2	8686.1	9499.0	9983.5	10334.2	11570.3	11926.7	11921.1
6380.9	47.5°	6514.6	6954.5	7433.3	8224.0	8842.0	9159.4	10183.9	10690.6	10657.2
5233.9	50°	5467.8	5857.6	6358.7	6932.2	7761.8	8040.2	8803.0	9471.2	9421.1
4170.4	52.5°	4398.7	4938.8	5362.0	5885.4	6759.6	7032.4	7622.6	8274.1	8235.1
3129.2	55°	3429.9	3953.3	4465.6	4916.6	5651.5	6058.0	6481.2	7149.3	7138.2
2449.9	57.5°	2594.7	3168.2	3652.6	4081.4	4666.0	5167.1	5506.8	6113.7	6191.6
1676.0	60°	1921.0	2360.8	2884.2	3363.1	3825.2	4343.1	4571.3	5167.1	5200.5
1147.0	62.5°	1308.5	1792.9	2305.2	2739.5	3084.7	3619.2	3825.2	4315.2	4376.5
735.0	65°	907.6	1219.4	1804.0	2115.8	2539.0	2995.6	3201.6	3591.4	3713.9
423.2	67.5°	601.3	868.6	1408.7	1692.7	2110.3	2422.1	2683.8	3001.2	3134.8
267.3	70°	328.5	640.3	1007.8	1336.3	1698.2	1998.9	2255.0	2511.2	2628.1
122.5	72.5°	222.7	428.7	701.6	1057.9	1369.7	1664.8	1893.1	2082.4	2088.0
72.4	75°	111.4	289.5	534.5	818.5	1069.1	1358.6	1564.6	1676.0	1542.3
44.5	77.5°	66.8	211.6	434.3	657.0	868.6	1096.9	1213.8	1275.1	1057.9
33.4	80°	39.0	150.3	339.6	523.4	601.3	807.4	918.7	935.4	707.1
22.3	82.5°	27.8	111.4	267.3	384.2	367.5	567.9	690.4	668.2	451.0
16.7	85°	16.7	78.0	167.0	239.4	222.7	373.1	400.9	412.0	261.7
11.1	87.5°	11.1	44.5	89.1	128.1	105.8	161.5	161.5	194.9	128.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30089.6
29343.5
29465.9
29109.6
28619.6
28018.3
27311.1
26464.8
25334.5
24237.6
22862.3
21637.3
20189.6
18797.6
17260.9
16058.2
14560.4
13240.7
11932.3
10668.3
9465.6
8318.6
7166.0
6158.2
5250.6
4387.6
3686.0
3118.1
2583.6
2037.9
1442.1
1018.9
662.6
417.6
239.4
111.4
0.0

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