

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: P574742

Luminaire Tested: **EPH-VN-04-750-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574742
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35142.3 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

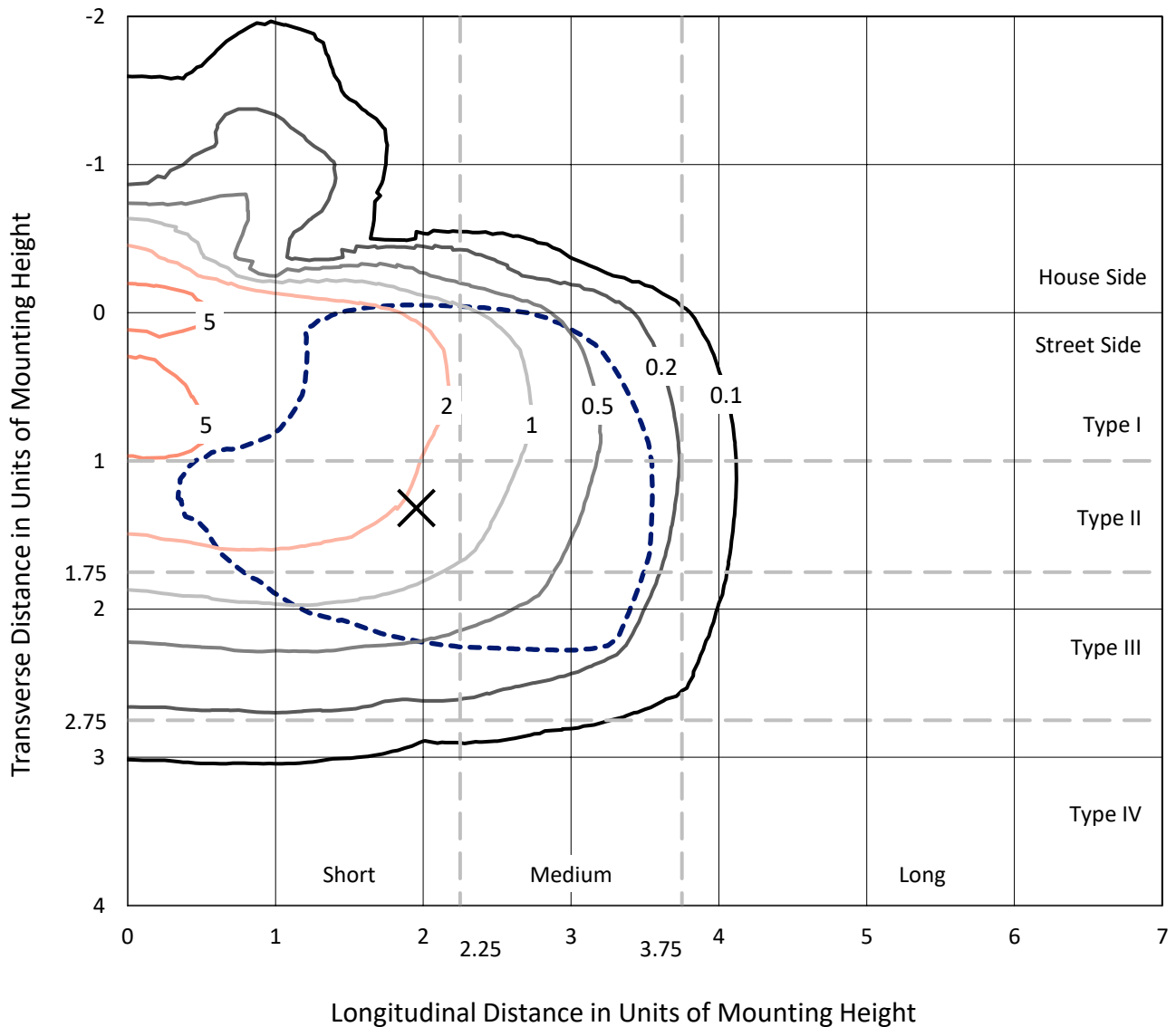
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

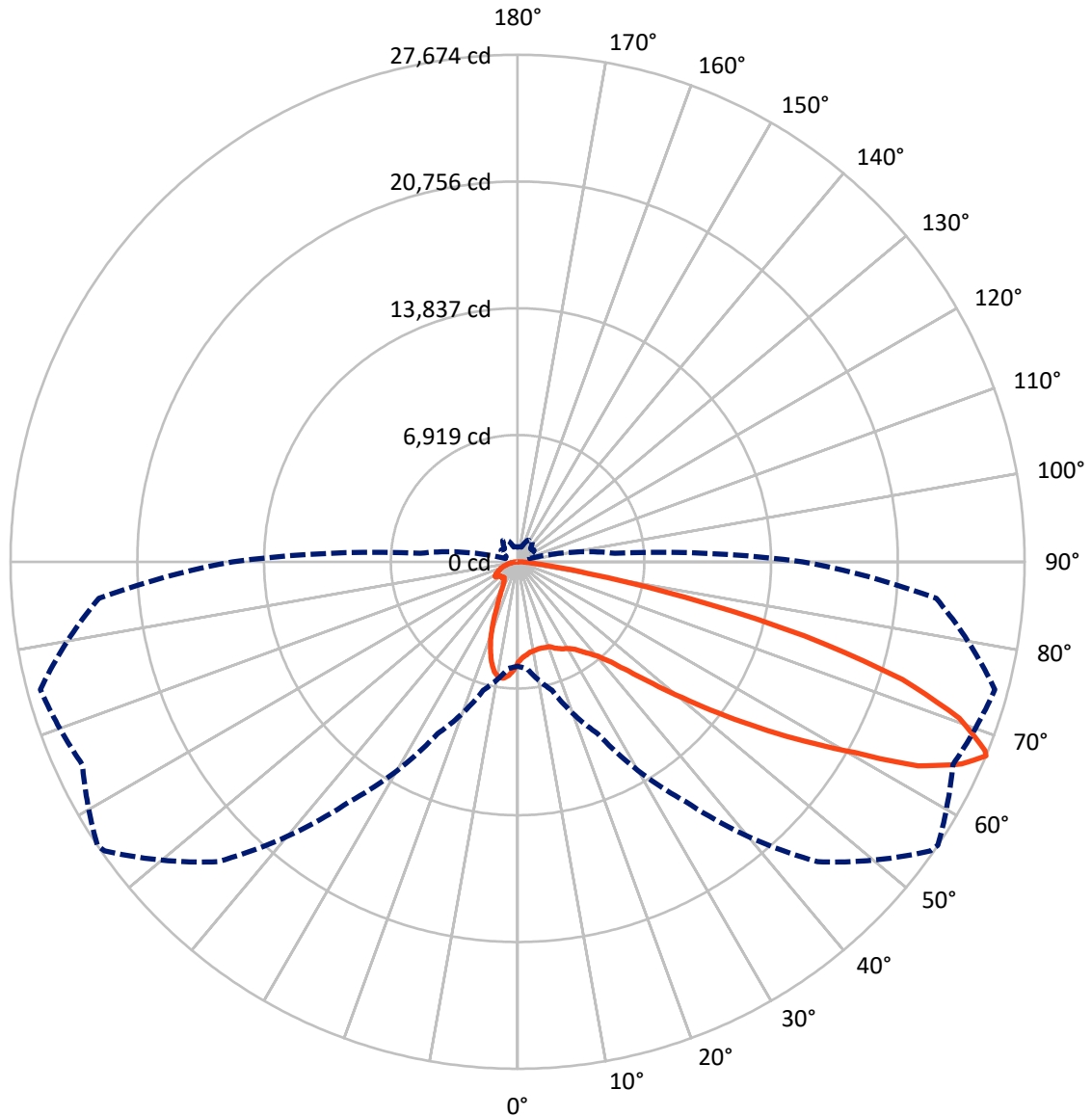
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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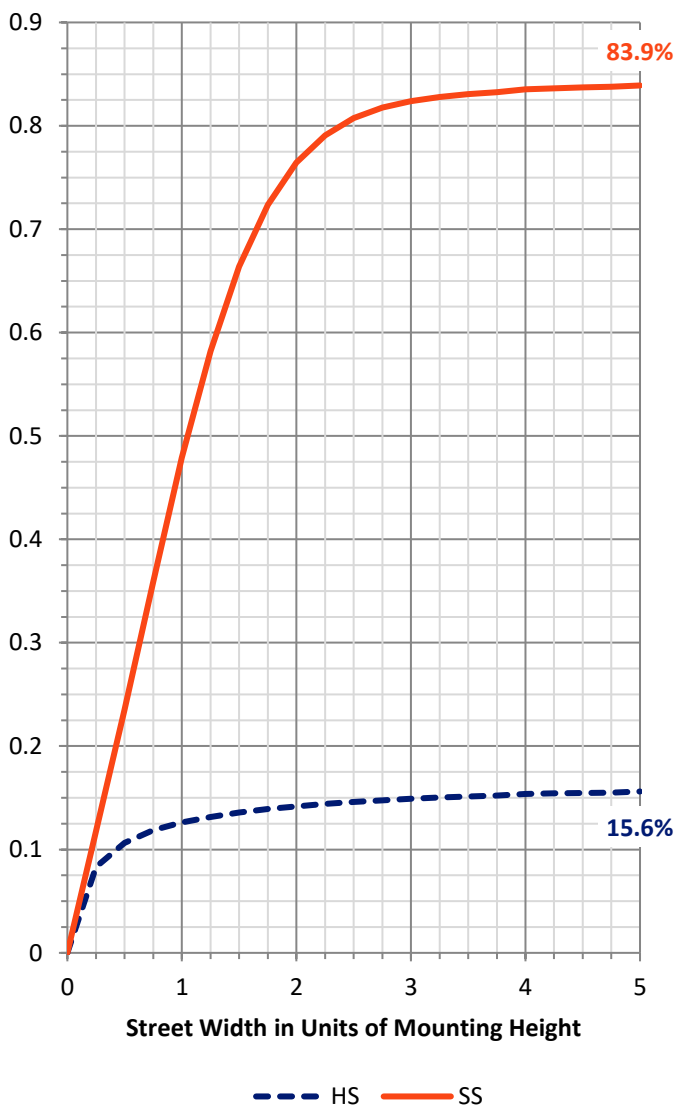
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5563.4	0.0	5563.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	29578.9	0.0	29578.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	35142.3	0.0	35142.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.8	1.5
10°-20°	1437.1	4.1
20°-30°	2253.8	6.4
30°-40°	3217.4	9.2
40°-50°	4855.9	13.8
50°-60°	7729.8	22.0
60°-70°	9881.9	28.1
70°-80°	4818.1	13.7
80°-90°	421.5	1.2
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°	35142.3	100.0
0°-180°	35142.3	100.0

Coefficient of Utilization

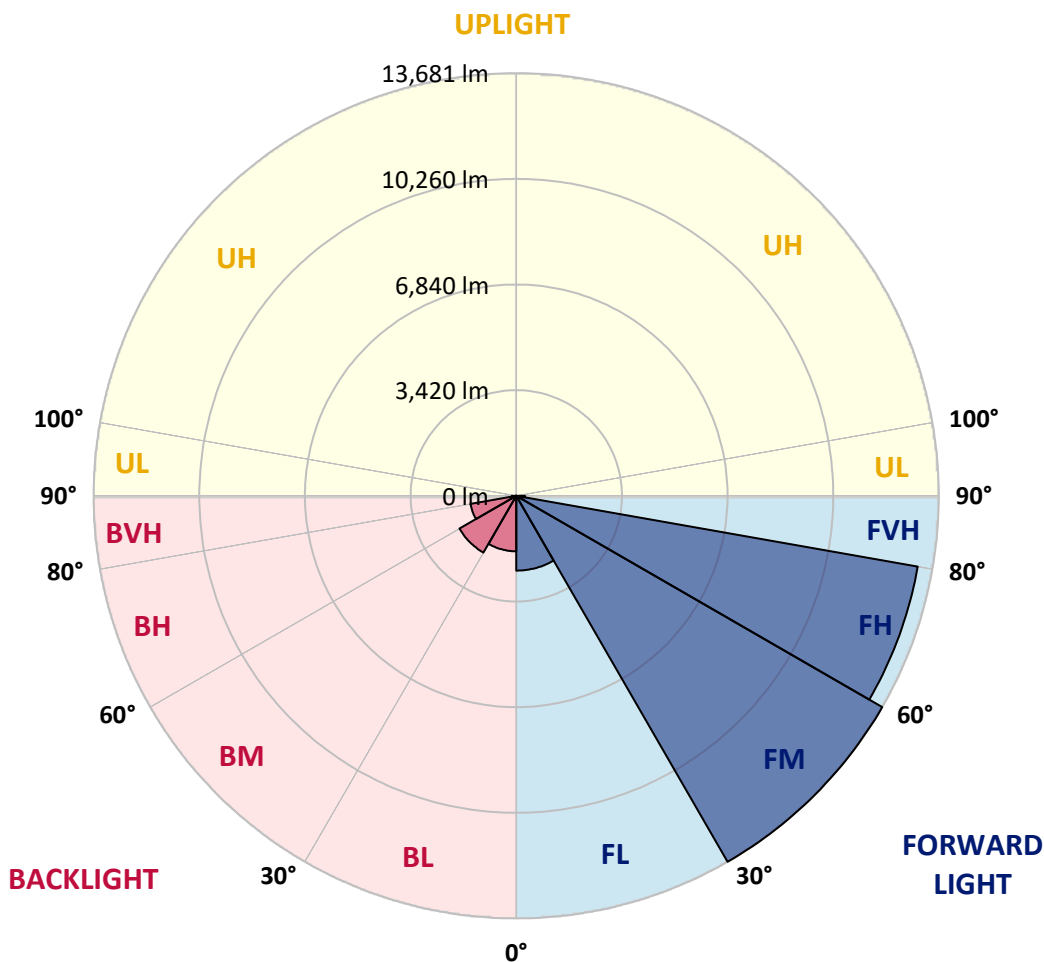


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2421.7	6.9			
FM (30°-60°)	13680.6	38.9			
FH (60°-80°)	13196.7	37.6			G5
FVH (80°-90°)	279.9	0.8			G3/500
BL (0°-30°)	1796.0	5.1	B3/2500		
BM (30°-60°)	2122.5	6.0	B2/2500		
BH (60°-80°)	1503.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	141.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0
2.5°	5023.0	5002.4	5027.1	5002.4	5113.7	5179.6	5200.2	5229.0	5332.1	5431.0
5°	4812.9	4722.2	4821.1	4854.1	4862.3	4973.6	5088.9	5109.5	5163.1	5323.8
7.5°	4462.6	4565.6	4528.5	4627.4	4730.5	4841.7	5031.3	4977.7	5175.5	5327.9
10°	4388.4	4396.7	4437.9	4475.0	4565.6	4709.8	4973.6	4940.6	5142.5	5468.0
12.5°	4462.6	4462.6	4450.3	4421.4	4524.4	4664.5	4874.7	4891.2	5208.4	5509.2
15°	4722.2	4771.7	4639.8	4660.4	4619.2	4664.5	4850.0	4887.0	5233.2	5542.2
17.5°	5356.8	5340.3	5183.7	4965.3	4784.0	4755.2	4882.9	4924.1	5208.4	5637.0
20°	5974.9	5941.9	5670.0	5443.3	5084.8	4915.9	4936.5	4940.6	5249.6	5698.8
22.5°	6663.0	6749.5	6452.9	5991.4	5546.3	5126.0	5043.6	5109.5	5344.4	5731.8
25°	7742.6	7557.2	7301.7	6696.0	5979.0	5451.6	5220.8	5253.8	5435.1	5814.2
27.5°	8521.4	8447.2	8047.5	7557.2	6584.7	5707.0	5315.6	5377.4	5599.9	5810.1
30°	9271.4	9271.4	9028.2	8294.8	7223.4	6135.6	5517.5	5488.6	5521.6	5801.8
32.5°	10149.0	10029.5	9679.3	9193.1	8026.9	6527.0	5678.2	5686.4	5686.4	5954.3
35°	10610.6	10804.2	10569.3	9778.2	8640.9	7178.1	6065.5	6003.7	5958.4	6123.2
37.5°	11286.3	11401.7	11154.5	10688.8	9403.2	7705.5	6407.5	6358.1	6094.4	6255.1
40°	11694.3	11673.7	11665.4	11451.2	10412.8	8327.7	6910.3	6782.5	6428.1	6720.7
42.5°	11925.0	11883.8	12390.7	12258.8	11364.6	9242.5	7540.7	7470.7	7079.2	7548.9
45°	12184.6	12489.5	12905.7	13276.6	12473.1	10528.1	8607.9	8509.0	8158.8	8756.3
47.5°	12411.3	12786.2	13317.8	13713.4	13474.4	11925.0	9926.5	9951.3	9720.5	10334.5
50°	12790.4	12827.4	13548.5	14347.9	14533.4	13214.8	11698.4	11657.2	11554.2	12415.4
52.5°	12675.0	12786.2	13696.9	14718.8	15023.7	14578.7	13602.1	13725.7	13589.8	14673.5
55°	10796.0	11129.7	13606.2	15110.3	16185.7	16119.8	16049.8	15967.3	15959.1	17211.8
57.5°	9943.0	10215.0	11986.8	15542.9	17430.2	17916.4	18369.7	18460.3	18456.2	19968.4
60°	9382.6	9662.8	11331.7	15308.0	18489.1	20269.2	21138.7	21151.1	21126.3	22914.7
62.5°	8286.5	8558.5	10198.5	14022.4	18781.7	22440.8	24377.5	24538.2	23405.0	25453.0
65°	6967.9	7190.5	8636.8	12056.9	18002.9	23821.2	26812.8	26623.2	25325.2	26903.4
67°	5698.8	5847.1	7256.4	10351.0	15967.3	23157.8	27517.4	27674.0	26211.2	26965.2
67.5°	5336.2	5472.2	6803.1	9770.0	15192.7	22655.1	27542.1	27517.4	26227.6	26977.6
70°	3704.4	3762.1	4635.7	6720.7	11191.6	19140.2	25531.3	25588.9	25127.4	25514.8
72.5°	2455.9	2542.4	3098.7	4236.0	6597.1	13927.6	21340.6	21958.7	21666.1	20920.3
75°	1582.3	1631.8	2027.3	2521.8	3247.0	7932.2	15765.4	16177.5	15505.8	12938.7
77.5°	885.9	939.5	1223.8	1532.9	1582.3	3300.6	8855.2	9366.1	7936.3	5496.9
80°	552.2	622.2	923.0	910.7	754.1	1211.5	3650.9	3910.5	3172.9	1891.4
82.5°	416.2	469.7	712.9	638.7	424.4	539.8	1368.0	1466.9	1162.0	729.3
85°	284.3	358.5	515.1	395.6	222.5	259.6	543.9	585.1	531.6	354.4
87.5°	103.0	152.5	267.8	197.8	98.9	78.3	177.2	197.8	189.5	160.7
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5468.0	0°	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0	5468.0
5517.5	2.5°	5595.8	5653.5	5682.3	5851.3	5921.3	5908.9	5925.4	5950.2	5974.9	6007.8
5587.5	5°	5641.1	5818.3	5913.1	6110.9	6242.7	6185.0	6259.2	6238.6	6209.7	6205.6
5715.3	7.5°	5789.4	6016.1	6300.4	6354.0	6411.7	6267.4	6143.8	5974.9	5933.7	5789.4
5822.4	10°	6053.2	6238.6	6584.7	6605.3	6349.8	5979.0	5702.9	5352.7	5348.5	5138.4
5987.2	12.5°	6304.5	6514.7	6794.9	6675.4	6065.5	5558.7	5109.5	4726.3	4565.6	4458.5
6086.1	15°	6461.1	6807.2	6955.6	6440.5	5566.9	4882.9	4301.9	3889.8	3725.0	3646.7
6209.7	17.5°	6605.3	7087.4	7021.5	6028.4	4953.0	4186.5	3494.3	3135.8	3090.5	3032.8
6407.5	20°	6803.1	7190.5	6786.6	5492.8	4256.6	3288.2	2847.3	2674.3	2715.5	2740.2
6428.1	22.5°	6988.5	7244.0	6490.0	4907.6	3362.4	2604.2	2385.8	2422.9	2484.7	2567.1
6477.6	25°	7071.0	7330.6	6090.3	4100.0	2558.9	2192.2	2142.7	2204.5	2307.5	2311.7
6547.6	27.5°	7124.5	7268.7	5608.1	3313.0	2023.2	1916.1	1990.3	2035.6	2047.9	2097.4
6696.0	30°	7219.3	7141.0	4998.3	2369.3	1697.7	1701.8	1796.6	1796.6	1796.6	1833.7
6844.3	32.5°	7384.1	7054.5	4285.4	1730.7	1462.8	1594.7	1569.9	1561.7	1545.2	1499.9
7033.9	35°	7487.1	6819.6	3383.0	1281.5	1314.5	1462.8	1454.6	1326.8	1112.6	1005.4
7516.0	37.5°	7701.4	6700.1	2488.8	988.9	1227.9	1396.9	1351.6	1042.5	807.6	704.6
8113.5	40°	8162.9	6621.8	1722.4	865.3	1170.3	1363.9	1207.3	890.1	618.1	436.8
9036.5	42.5°	8727.4	6625.9	1170.3	815.9	1174.4	1434.0	1162.0	762.3	436.8	350.3
10268.5	45°	9485.6	6564.1	803.5	815.9	1248.5	1549.3	1190.9	692.3	424.4	445.0
11813.8	47.5°	10301.5	6617.7	597.5	741.7	1260.9	1553.5	1087.8	679.9	407.9	515.1
13495.0	50°	11253.4	6671.3	494.5	684.0	1265.0	1504.0	1001.3	663.4	424.4	543.9
15423.4	52.5°	12234.1	6840.2	420.3	646.9	1314.5	1483.4	1001.3	688.1	424.4	473.9
17879.3	55°	13696.9	7272.9	605.7	807.6	1495.8	1619.4	1232.1	964.2	593.4	609.8
20232.2	57.5°	15312.2	7717.9	675.8	848.8	1537.0	1458.7	1326.8	1063.1	626.3	630.5
22061.7	60°	16375.3	7734.4	671.7	828.2	1438.1	1260.9	1298.0	1120.8	638.7	539.8
23194.9	62.5°	16799.7	7231.7	700.5	828.2	1339.2	1178.5	1331.0	1207.3	659.3	675.8
23516.3	65°	16317.6	6193.3	675.8	741.7	1178.5	1054.9	1339.2	1223.8	721.1	679.9
22939.4	67°	15563.5	5336.2	688.1	704.6	1096.1	1001.3	1409.2	1285.6	836.5	815.9
22638.6	67.5°	15349.2	5109.5	684.0	684.0	1067.2	984.8	1425.7	1285.6	853.0	844.7
19980.8	70°	13527.9	4141.2	700.5	675.8	943.6	935.4	1516.4	1355.7	980.7	988.9
14677.6	72.5°	10297.4	3139.9	696.4	675.8	820.0	894.2	1528.7	1401.0	1067.2	988.9
8220.6	75°	5851.3	1879.0	614.0	589.2	646.9	778.8	1429.8	1335.1	1038.4	885.9
3284.1	77.5°	2418.8	968.3	564.5	531.6	535.7	634.6	1190.9	1244.4	988.9	754.1
1096.1	80°	902.4	581.0	453.3	424.4	412.1	465.6	848.8	993.1	844.7	618.1
482.1	82.5°	469.7	362.6	309.0	309.0	280.2	296.7	457.4	659.3	638.7	424.4
193.7	85°	239.0	206.0	177.2	173.1	156.6	140.1	230.8	391.5	366.7	234.9
86.5	87.5°	127.7	115.4	74.2	70.1	57.7	37.1	41.2	78.3	127.7	103.0
0.0	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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180°
5468.0
6040.8
6242.7
5838.9
5130.2
4433.8
3630.3
3061.6
2711.4
2521.8
2352.9
2142.7
1874.9
1475.2
1054.9
700.5
424.4
342.0
453.3
572.8
630.5
486.2
642.8
609.8
556.3
684.0
667.5
803.5
828.2
914.8
877.7
791.2
712.9
564.5
333.8
193.7
74.2
0.0

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