

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: P574862

Luminaire Tested: **EPH-VN-04-750-U-5NQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574862
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-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

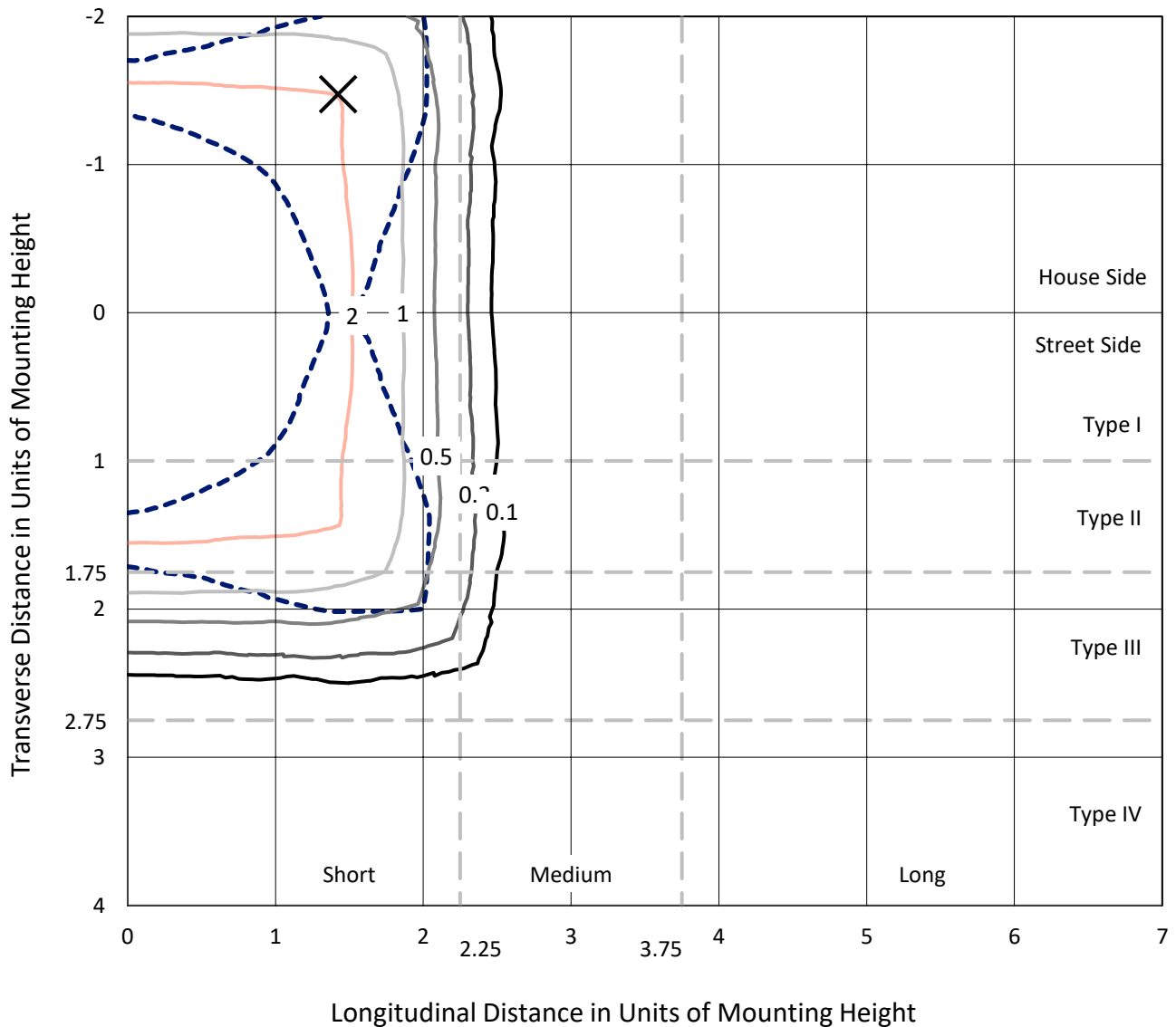
Lumens per Lamp: N/A
Luminaire Lumens: 35681.6 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

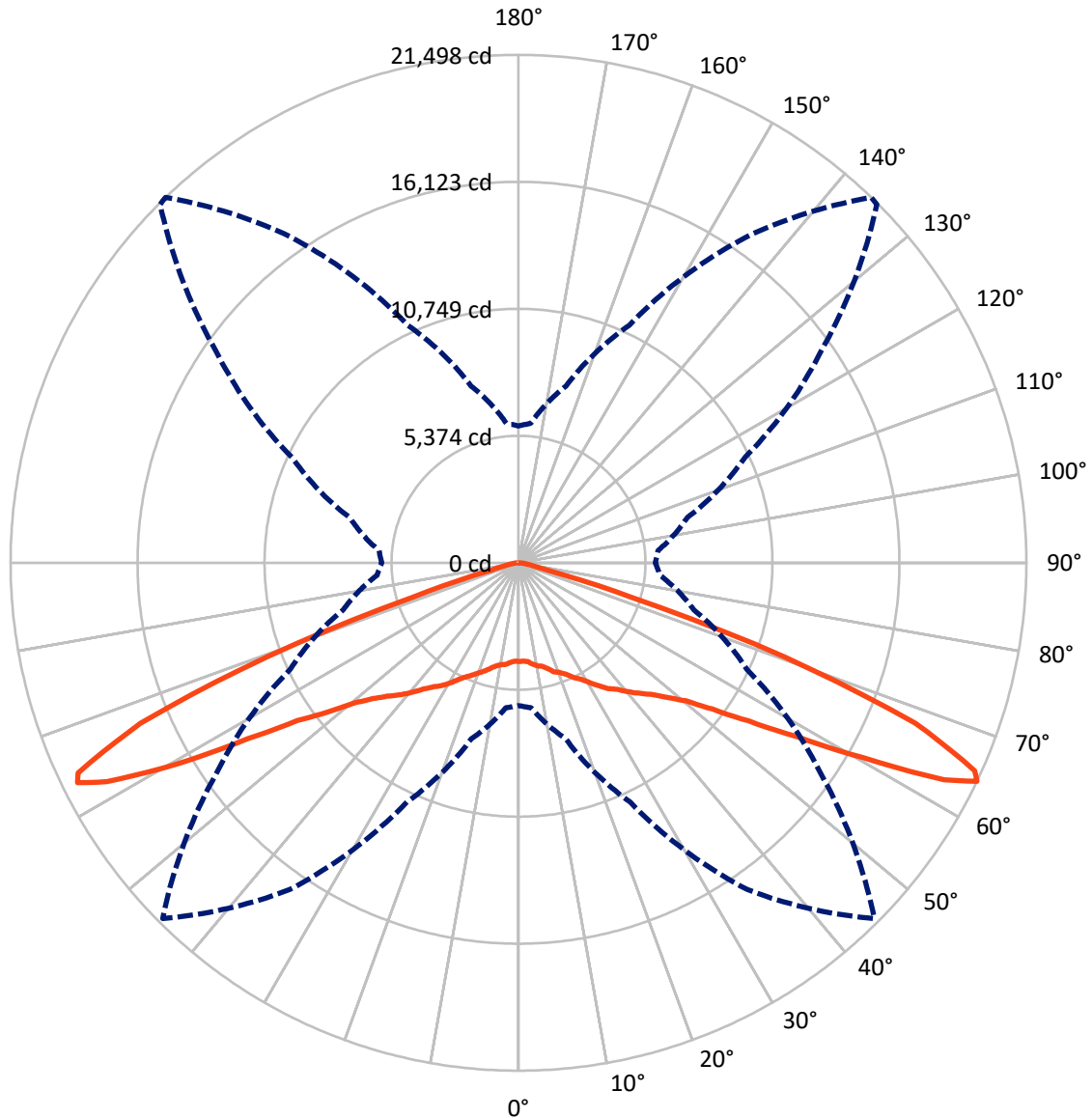
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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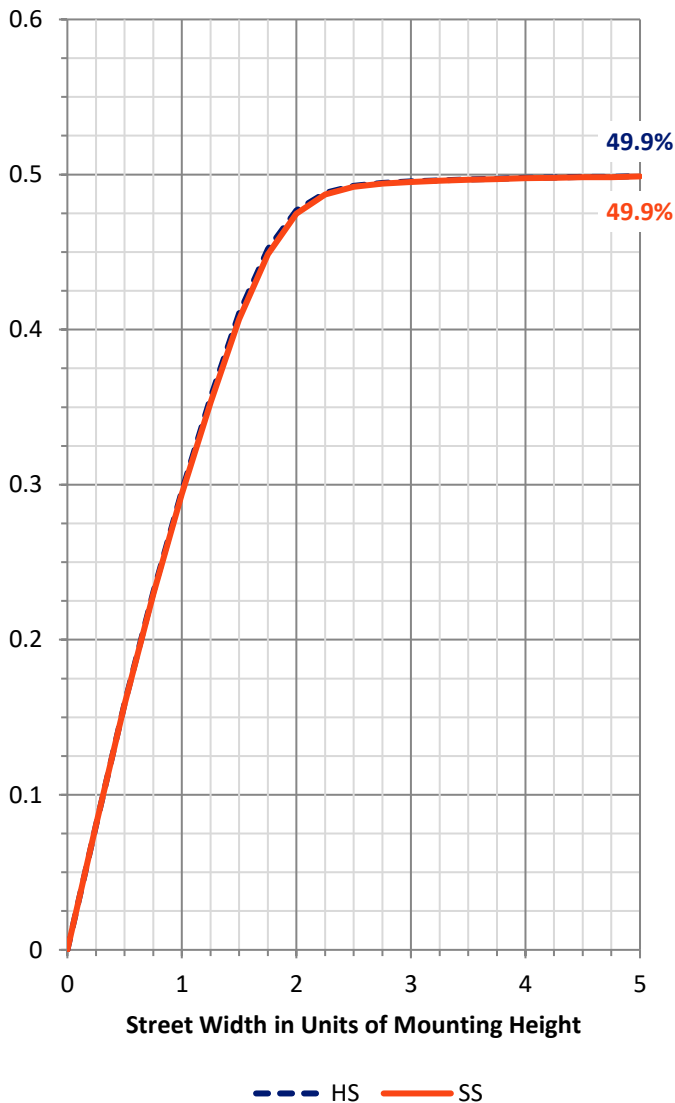
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17857.8	0.0	17857.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17823.8	0.0	17823.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	35681.6	0.0	35681.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.5	1.2
10°-20°	1323.0	3.7
20°-30°	2486.4	7.0
30°-40°	4100.5	11.5
40°-50°	6412.9	18.0
50°-60°	10361.8	29.0
60°-70°	9330.1	26.1
70°-80°	1105.2	3.1
80°-90°	151.3	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°	35681.6	100.0
0°-180°	35681.6	100.0



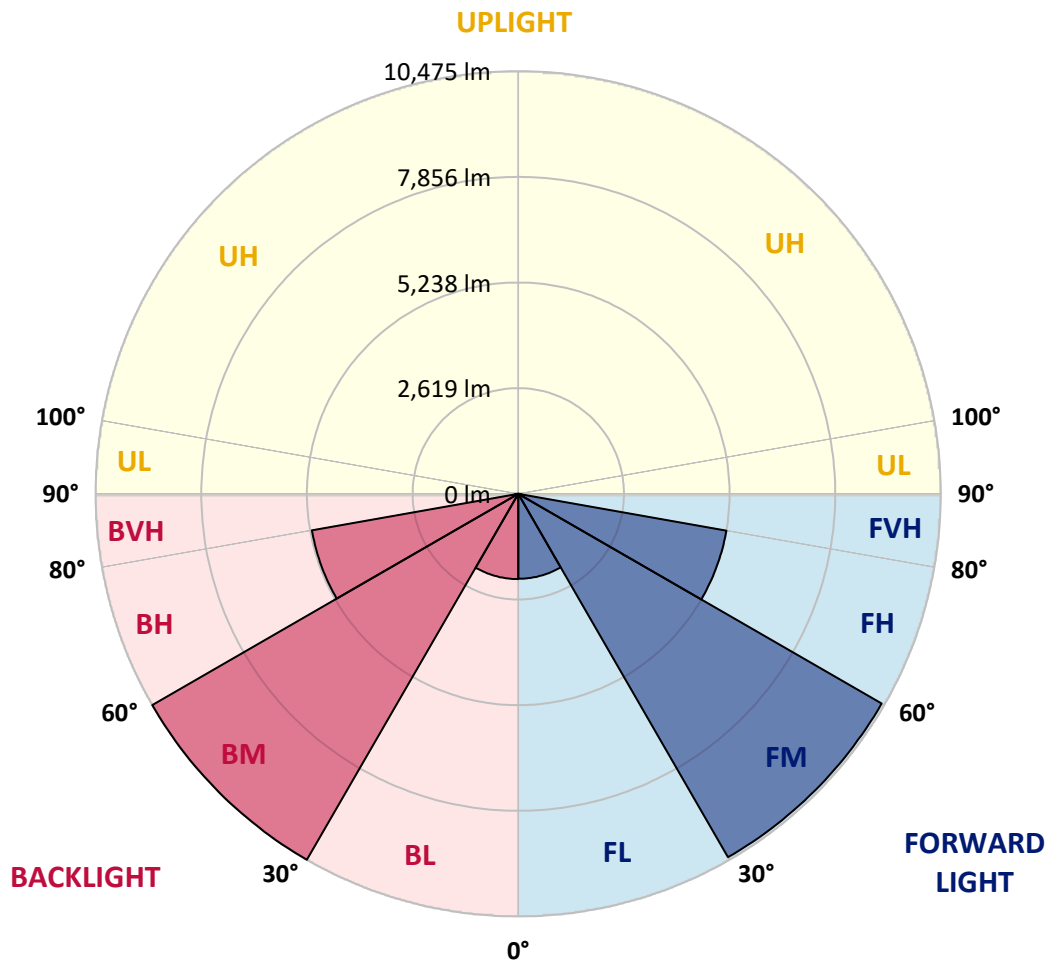
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2105.9	5.9			
FM (30°-60°)	10400.1	29.1			
FH (60°-80°)	5240.2	14.7			G3/7500
FVH (80°-90°)	77.6	0.2			G1/100
BL (0°-30°)	2114.0	5.9	B3/2500		
BM (30°-60°)	10475.1	29.4	B5		
BH (60°-80°)	5195.0	14.6	B5		G3/7500
BVH (80°-90°)	73.7	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6
2.5°	4128.5	4136.7	4210.3	4181.7	4206.2	4161.2	4194.0	4263.5	4181.7	4243.1
5°	4173.5	4185.8	4185.8	4214.4	4230.8	4222.6	4243.1	4214.4	4292.2	4259.4
7.5°	4337.2	4316.7	4284.0	4308.5	4312.6	4333.1	4353.5	4390.4	4378.1	4349.4
10°	4365.8	4349.4	4398.5	4402.6	4382.2	4365.8	4386.3	4386.3	4423.1	4431.3
12.5°	4414.9	4431.3	4427.2	4459.9	4464.0	4451.7	4484.5	4545.8	4529.5	4541.7
15°	4603.1	4582.7	4578.6	4611.3	4664.5	4586.8	4644.0	4639.9	4623.6	4648.1
17.5°	4766.8	4701.3	4730.0	4783.1	4762.7	4779.1	4852.7	4787.2	4803.6	4775.0
20°	4910.0	4856.8	4860.9	4881.3	4881.3	4930.4	4959.1	4934.5	4918.2	4914.1
22.5°	5069.6	5008.2	5012.3	5098.2	5126.8	5110.5	5090.0	5130.9	5139.1	5106.4
25°	5188.2	5253.7	5274.1	5315.1	5253.7	5298.7	5282.3	5360.1	5409.2	5343.7
27.5°	5499.2	5470.5	5523.7	5519.6	5568.7	5523.7	5552.4	5576.9	5597.4	5601.5
30°	5777.4	5789.7	5736.5	5879.7	5765.1	5838.8	5887.9	5900.2	5924.7	5924.7
32.5°	6072.0	6047.5	6133.4	6100.7	6080.2	6137.5	6084.3	6252.1	6153.9	6211.1
35°	6403.4	6403.4	6436.2	6526.2	6403.4	6366.6	6464.8	6534.4	6534.4	6432.1
37.5°	6775.8	6743.1	6784.0	6898.5	6804.4	6681.7	6861.7	6890.4	6869.9	6841.3
40°	7037.7	7029.5	7111.3	7262.7	7127.7	7103.1	7135.9	7213.6	7238.1	7266.8
42.5°	7479.6	7516.4	7753.7	7716.9	7606.4	7520.5	7512.3	7802.8	7733.2	7659.6
45°	8134.2	8101.5	8224.2	8228.3	8085.1	7896.9	7937.8	8203.8	8322.4	8158.8
47.5°	8653.9	8670.2	8756.2	8932.1	8600.7	8404.3	8555.7	8985.3	8948.5	8887.1
50°	9349.4	9423.1	9693.1	9631.8	9337.2	9095.8	9427.2	9832.3	9877.3	9652.2
52.5°	10311.0	10425.5	10572.8	10621.9	10339.6	10253.7	10274.2	10777.4	10667.0	10450.1
55°	11153.9	11207.1	11477.1	11882.2	11861.7	11448.5	11685.8	11874.0	11423.9	10977.9
57.5°	11513.9	11538.5	12291.3	13101.5	13584.3	13678.4	13408.4	12774.2	11702.1	10842.9
60°	10617.9	10851.1	11759.4	13588.4	15793.8	16882.2	15085.9	12876.5	11051.6	10008.2
62.5°	8486.1	8498.4	9848.6	12622.8	17168.6	20020.5	15728.3	11914.9	9316.7	8134.2
64°	6043.4	6157.9	7708.7	11174.3	16882.2	21297.1	15650.6	10658.8	7680.0	6002.5
65°	4337.2	4496.7	5994.3	9701.3	16211.2	21145.7	15417.4	9578.6	6211.1	4582.7
67.5°	1595.7	1661.2	2352.7	4852.7	11640.8	18019.7	12217.7	5266.0	2729.1	1943.5
70°	740.6	744.7	871.5	1603.9	5090.0	12049.9	5830.6	1976.3	1027.0	814.2
72.5°	544.2	556.5	609.7	740.6	1497.5	5102.3	1914.9	810.1	601.5	531.9
75°	441.9	450.1	466.4	536.0	691.5	1366.6	777.4	560.6	478.7	429.6
77.5°	339.6	339.6	376.4	409.2	458.3	638.3	515.5	446.0	388.7	339.6
80°	245.5	249.6	294.6	319.1	311.0	421.4	372.3	368.2	319.1	266.0
82.5°	143.2	155.5	212.8	229.1	220.9	249.6	270.0	286.4	249.6	184.1
85°	81.8	85.9	122.7	126.8	126.8	118.7	155.5	171.8	167.8	114.6
87.5°	24.5	24.5	32.7	32.7	36.8	40.9	61.4	73.6	81.8	57.3
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°	136°	145°	155°	165°	175°
4177.6	0°	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6
4263.5	2.5°	4243.1	4181.7	4185.8	4202.1	4148.9	4169.4	4230.8	4185.8	4173.5	4148.9
4308.5	5°	4222.6	4288.1	4263.5	4271.7	4259.4	4202.1	4194.0	4230.8	4251.2	4214.4
4398.5	7.5°	4365.8	4337.2	4304.4	4316.7	4288.1	4337.2	4369.9	4296.2	4333.1	4312.6
4431.3	10°	4447.6	4394.4	4419.0	4410.8	4390.4	4439.5	4406.7	4398.5	4365.8	4320.8
4513.1	12.5°	4476.3	4537.7	4578.6	4509.0	4521.3	4496.7	4476.3	4476.3	4439.5	4427.2
4582.7	15°	4603.1	4656.3	4639.9	4693.1	4623.6	4648.1	4672.7	4611.3	4644.0	4554.0
4754.5	17.5°	4836.3	4791.3	4848.6	4779.1	4803.6	4852.7	4775.0	4775.0	4799.5	4750.4
4922.3	20°	4983.6	4963.2	4942.7	4946.8	4905.9	4950.9	4926.4	4914.1	4877.3	4893.6
5143.2	22.5°	5122.8	5094.1	5102.3	5114.6	5143.2	5122.8	5110.5	5122.8	5032.7	5114.6
5388.7	25°	5294.6	5372.3	5347.8	5401.0	5319.2	5372.3	5368.3	5290.5	5339.6	5306.9
5581.0	27.5°	5581.0	5540.1	5576.9	5511.5	5568.7	5572.8	5523.7	5654.7	5597.4	5589.2
5863.3	30°	5949.3	5920.6	5896.1	5859.3	5904.3	5867.4	5908.4	5920.6	5867.4	5826.5
6141.6	32.5°	6157.9	6235.7	6264.3	6174.3	6178.4	6198.9	6162.0	6125.2	6157.9	6170.2
6456.6	35°	6452.5	6526.2	6542.6	6473.0	6436.2	6538.5	6464.8	6587.6	6481.2	6485.3
6792.2	37.5°	6796.2	6816.7	6955.8	6878.1	6845.3	6796.2	6931.3	6914.9	6939.5	6743.1
7201.3	40°	7185.0	7258.6	7336.3	7139.9	7135.9	7180.9	7172.7	7266.8	7221.8	7193.1
7622.8	42.5°	7610.5	7766.0	7778.2	7647.3	7565.5	7557.3	7598.2	7806.9	7811.0	7622.8
8220.1	45°	8175.1	8347.0	8302.0	8048.3	7958.3	7946.0	8146.5	8236.5	8314.3	8240.6
8944.4	47.5°	8878.9	8993.5	8960.7	8727.5	8437.0	8518.8	8715.2	8997.6	8915.7	8817.5
9611.3	50°	9631.8	9766.8	9697.2	9464.0	9185.8	9185.8	9427.2	9787.2	9762.7	9570.4
10311.0	52.5°	10466.5	10662.9	10822.4	10491.0	10257.8	10294.6	10675.1	10806.1	10744.7	10609.7
11014.7	55°	11088.4	11464.8	11792.2	11808.5	11820.8	11816.7	11914.9	12045.8	11608.0	11391.2
10789.7	57.5°	10937.0	11649.0	12770.1	13531.1	13756.2	13874.8	13842.1	13236.5	12201.3	11489.4
9930.5	60°	9856.8	11018.8	12827.4	15270.1	16906.7	16743.1	16145.7	13752.1	11874.0	10671.0
7823.3	62.5°	7864.2	9263.5	11865.8	15761.1	20270.1	20221.0	17095.0	12561.4	9893.6	8371.5
5785.6	64°	5924.7	7397.7	10585.1	15634.2	21448.5	21497.6	16853.5	11096.6	7741.4	5924.7
4361.7	65°	4533.6	5900.2	9329.0	15372.4	21194.8	21223.4	16182.5	9582.7	5883.8	4206.2
1747.1	67.5°	1804.4	2512.3	5061.4	11657.1	18199.7	18122.0	11546.7	4635.8	2250.4	1464.8
757.0	70°	769.2	957.4	1775.8	5523.7	12185.0	11959.9	4971.4	1505.7	834.7	699.7
519.6	72.5°	527.8	585.1	761.0	1706.2	5065.5	4946.8	1415.7	699.7	568.7	523.7
413.3	75°	425.5	466.4	552.4	716.0	1342.1	1293.0	666.9	515.5	454.2	421.4
327.3	77.5°	331.4	372.3	433.7	495.1	613.7	609.7	446.0	388.7	351.9	327.3
245.5	80°	261.9	302.8	343.7	351.9	401.0	392.8	302.8	306.9	286.4	237.3
167.8	82.5°	180.0	245.5	274.1	249.6	237.3	237.3	216.9	216.9	200.5	147.3
102.3	85°	110.5	163.7	171.8	147.3	110.5	110.5	118.7	114.6	106.4	77.7
53.2	87.5°	57.3	77.7	69.6	57.3	36.8	36.8	32.7	24.5	24.5	20.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



180°
4177.6
4136.7
4288.1
4271.7
4386.3
4439.5
4623.6
4689.0
4926.4
5000.0
5282.3
5572.8
5748.8
6157.9
6374.8
6841.3
7123.6
7540.9
8171.0
8735.7
9496.7
10548.3
11170.2
11563.0
10519.7
8277.4
5781.5
4050.7
1436.2
695.6
523.7
417.3
319.1
233.2
135.0
73.6
20.5
0.0

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