

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: P574729

Luminaire Tested: **EPH-VN-03-735-U-T3R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574729  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-735-U-T3R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

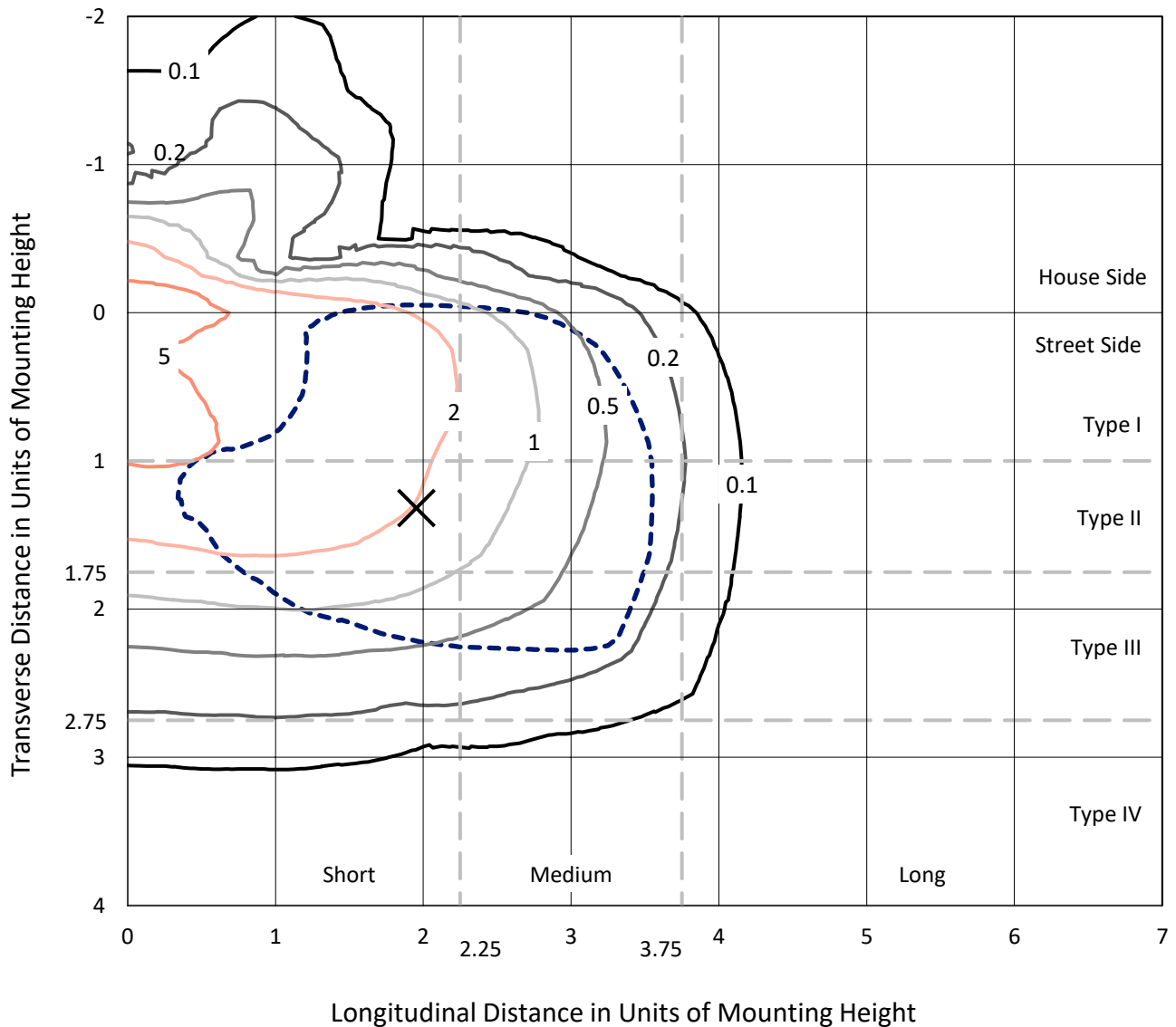
Lumens per Lamp: N/A  
Luminaire Lumens: 26132.9 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

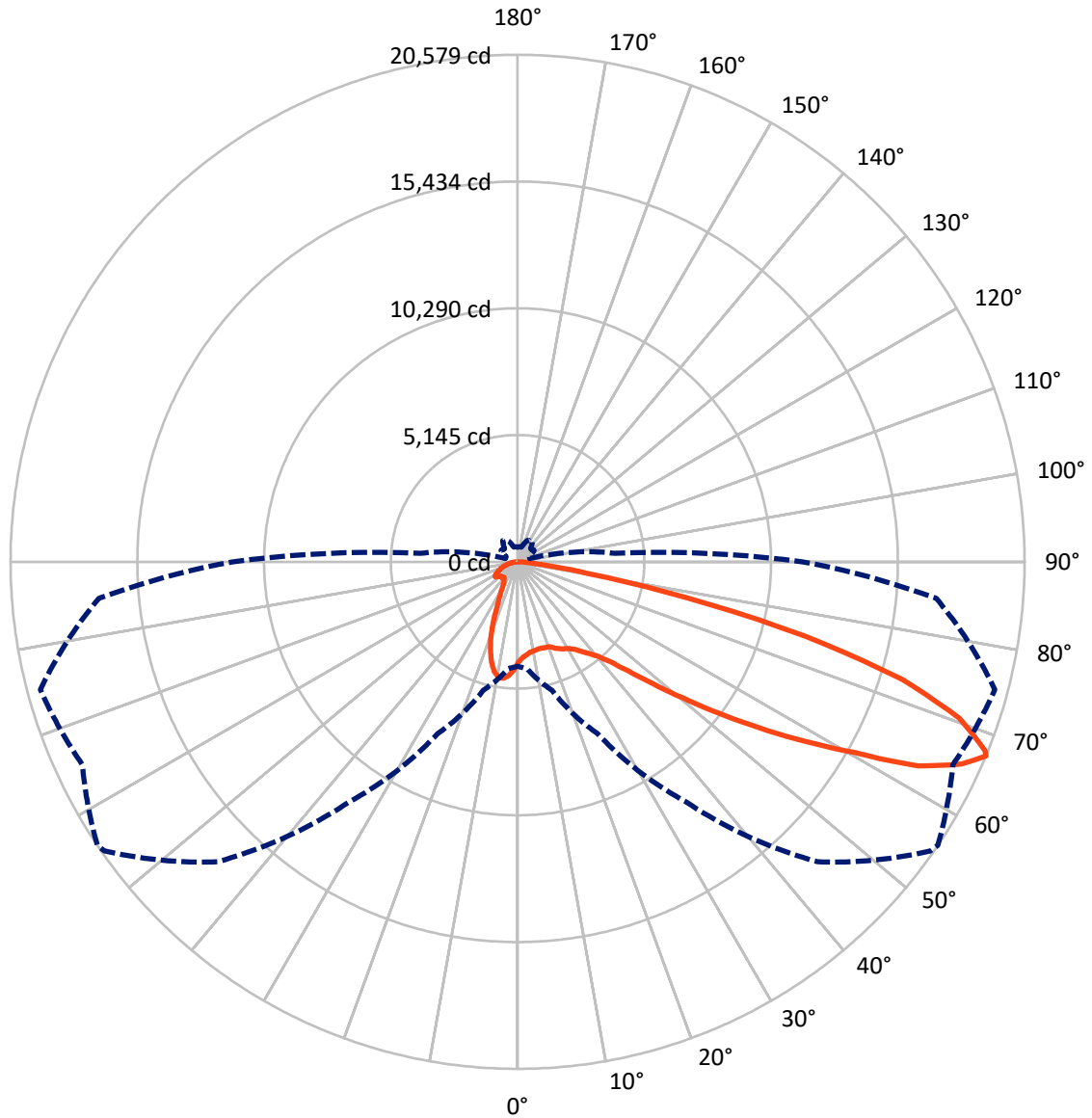
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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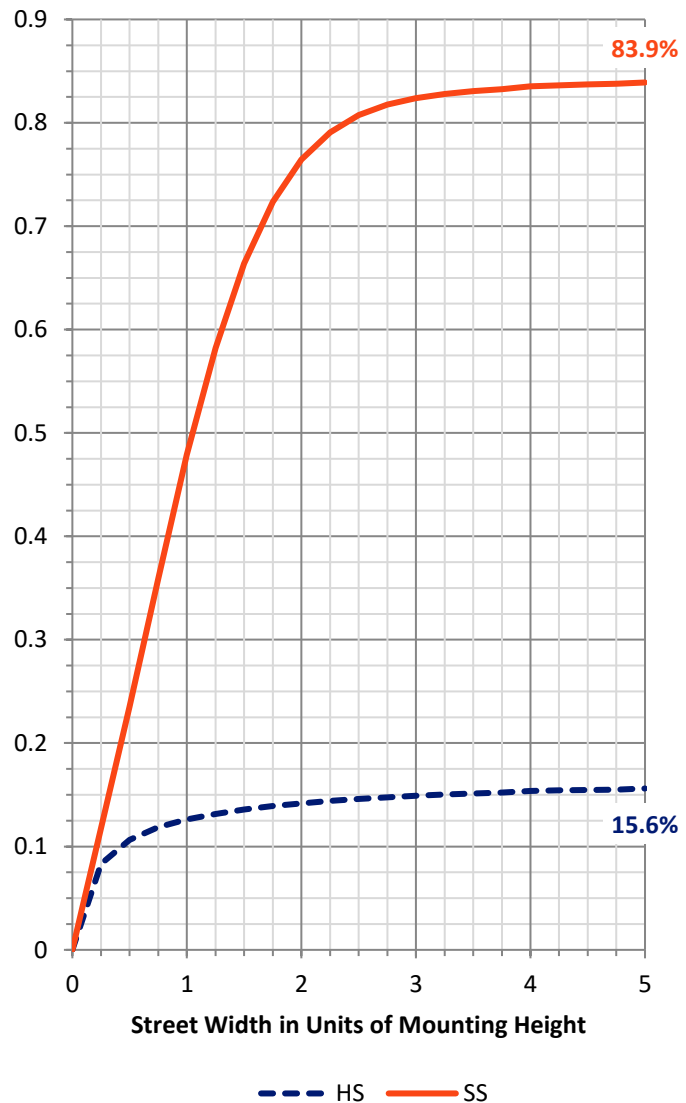
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4137.1	0.0	4137.1
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	21995.8	0.0	21995.8
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	26132.9	0.0	26132.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.7	1.5
10°-20°	1068.7	4.1
20°-30°	1676.0	6.4
30°-40°	2392.5	9.2
40°-50°	3611.0	13.8
50°-60°	5748.1	22.0
60°-70°	7348.5	28.1
70°-80°	3582.9	13.7
80°-90°	313.4	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°	26132.9	100.0
0°-180°	26132.9	100.0

**Coefficient of Utilization**

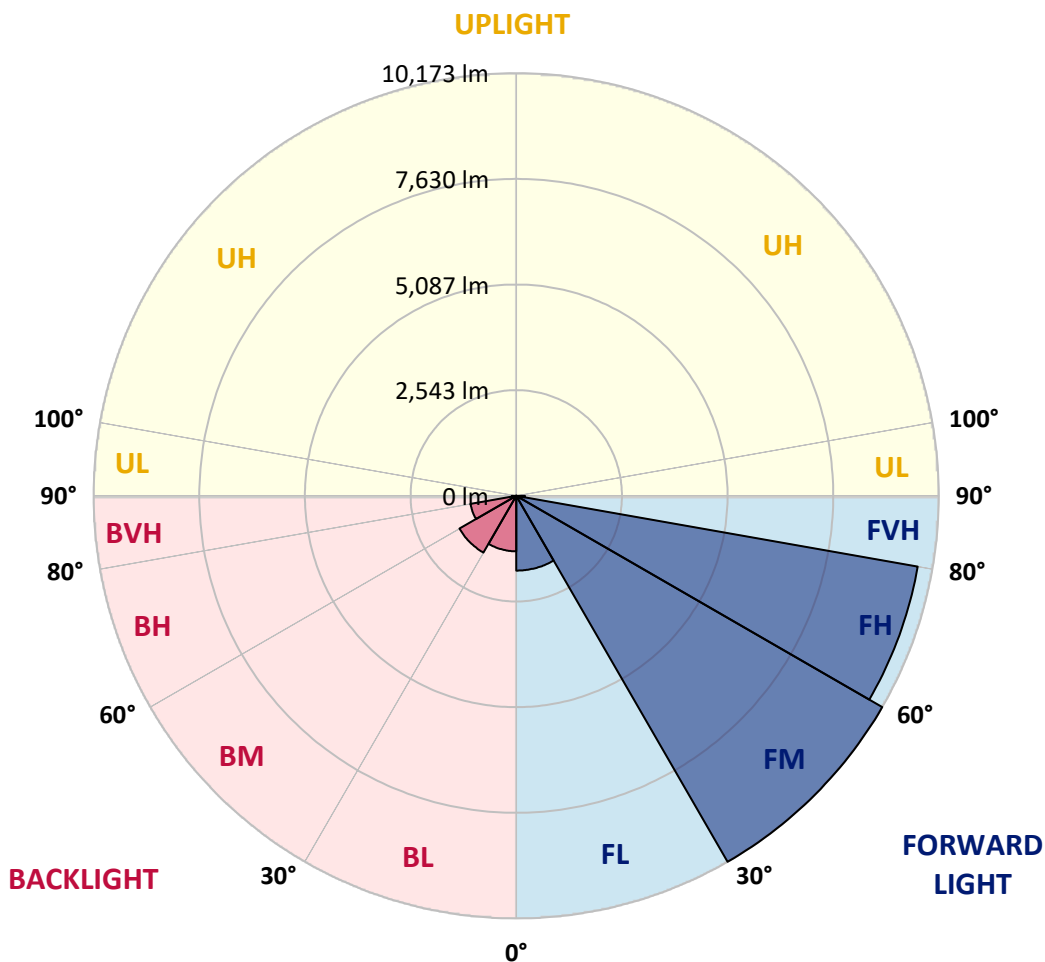


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.8	6.9			
FM (30°-60°)	10173.3	38.9			
FH (60°-80°)	9813.5	37.6			G4/12000
FVH (80°-90°)	208.2	0.8			G2/225
BL (0°-30°)	1335.6	5.1	B3/2500		
BM (30°-60°)	1578.3	6.0	B2/2500		
BH (60°-80°)	1117.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	105.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2
2.5°	3735.3	3719.9	3738.3	3719.9	3802.7	3851.7	3867.0	3888.5	3965.1	4038.6
5°	3579.0	3511.6	3585.1	3609.6	3615.8	3698.5	3784.3	3799.6	3839.4	3959.0
7.5°	3318.5	3395.1	3367.6	3441.1	3517.7	3600.4	3741.4	3701.6	3848.6	3962.0
10°	3263.4	3269.5	3300.1	3327.7	3395.1	3502.4	3698.5	3674.0	3824.1	4066.2
12.5°	3318.5	3318.5	3309.3	3287.9	3364.5	3468.7	3625.0	3637.2	3873.2	4096.8
15°	3511.6	3548.4	3450.3	3465.6	3435.0	3468.7	3606.6	3634.1	3891.5	4121.4
17.5°	3983.5	3971.2	3854.8	3692.4	3557.5	3536.1	3631.1	3661.7	3873.2	4191.8
20°	4443.1	4418.6	4216.3	4047.8	3781.2	3655.6	3670.9	3674.0	3903.8	4237.8
22.5°	4954.8	5019.2	4798.5	4455.4	4124.4	3811.9	3750.6	3799.6	3974.3	4262.3
25°	5757.6	5619.8	5429.8	4979.3	4446.2	4053.9	3882.3	3906.9	4041.7	4323.6
27.5°	6336.8	6281.6	5984.4	5619.8	4896.6	4243.9	3952.8	3998.8	4164.3	4320.5
30°	6894.5	6894.5	6713.7	6168.2	5371.6	4562.6	4103.0	4081.5	4106.0	4314.4
32.5°	7547.1	7458.3	7197.8	6836.2	5969.1	4853.7	4222.5	4228.6	4228.6	4427.8
35°	7890.3	8034.3	7859.7	7271.4	6425.6	5337.8	4510.5	4464.5	4430.8	4553.4
37.5°	8392.9	8478.7	8294.8	7948.5	6992.5	5730.1	4764.8	4728.1	4532.0	4651.5
40°	8696.2	8680.9	8674.8	8515.4	7743.2	6192.8	5138.7	5043.7	4780.2	4997.7
42.5°	8867.8	8837.2	9214.1	9116.0	8451.1	6873.0	5607.5	5555.4	5264.3	5613.6
45°	9060.9	9287.6	9597.1	9872.9	9275.4	7829.0	6401.1	6327.6	6067.1	6511.4
47.5°	9229.4	9508.2	9903.5	10197.7	10020.0	8867.8	7381.7	7400.1	7228.5	7685.0
50°	9511.3	9538.9	10075.1	10669.6	10807.5	9826.9	8699.3	8668.6	8592.0	9232.5
52.5°	9425.5	9508.2	10185.4	10945.3	11172.1	10841.2	10114.9	10206.9	10105.8	10911.6
55°	8028.2	8276.4	10118.0	11236.4	12036.2	11987.2	11935.1	11873.8	11867.7	12799.2
57.5°	7393.9	7596.2	8913.8	11558.2	12961.6	13323.2	13660.2	13727.6	13724.6	14849.1
60°	6977.2	7185.6	8426.6	11383.5	13749.1	15072.8	15719.4	15728.6	15710.2	17040.0
62.5°	6162.1	6364.4	7583.9	10427.5	13966.6	16687.7	18127.8	18247.3	17404.7	18927.6
65°	5181.6	5347.0	6422.6	8965.9	13387.5	17714.2	19938.8	19797.8	18832.6	20006.2
67°	4237.8	4348.1	5396.1	7697.3	11873.8	17220.8	20462.8	20579.2	19491.4	20052.2
67.5°	3968.1	4069.3	5059.0	7265.2	11297.7	16847.0	20481.2	20462.8	19503.7	20061.4
70°	2754.7	2797.6	3447.2	4997.7	8322.4	14233.2	18985.8	19028.7	18685.5	18973.6
72.5°	1826.3	1890.6	2304.3	3150.0	4905.8	10357.0	15869.5	16329.2	16111.6	15557.0
75°	1176.7	1213.4	1507.6	1875.3	2414.6	5898.6	11723.7	12030.1	11530.6	9621.6
77.5°	658.8	698.6	910.1	1139.9	1176.7	2454.4	6585.0	6964.9	5901.7	4087.7
80°	410.6	462.7	686.4	677.2	560.7	900.9	2714.9	2907.9	2359.4	1406.5
82.5°	309.5	349.3	530.1	475.0	315.6	401.4	1017.3	1090.9	864.1	542.4
85°	211.4	266.6	383.0	294.2	165.5	193.0	404.5	435.1	395.3	263.5
87.5°	76.6	113.4	199.2	147.1	73.5	58.2	131.8	147.1	141.0	119.5
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°
4066.2	0°	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2	4066.2
4103.0	2.5°	4161.2	4204.1	4225.5	4351.2	4403.3	4394.1	4406.3	4424.7	4443.1	4467.6
4155.1	5°	4194.9	4326.7	4397.1	4544.2	4642.3	4599.4	4654.5	4639.2	4617.8	4614.7
4250.1	7.5°	4305.2	4473.7	4685.2	4725.0	4767.9	4660.7	4568.7	4443.1	4412.5	4305.2
4329.7	10°	4501.3	4639.2	4896.6	4911.9	4721.9	4446.2	4240.9	3980.4	3977.3	3821.1
4452.3	12.5°	4688.2	4844.5	5052.9	4964.0	4510.5	4133.6	3799.6	3514.6	3395.1	3315.5
4525.8	15°	4804.7	5062.1	5172.4	4789.4	4139.7	3631.1	3199.0	2892.6	2770.0	2711.8
4617.8	17.5°	4911.9	5270.4	5221.4	4482.9	3683.2	3113.2	2598.4	2331.9	2298.2	2255.3
4764.8	20°	5059.0	5347.0	5046.7	4084.6	3165.3	2445.2	2117.4	1988.7	2019.3	2037.7
4780.2	22.5°	5196.9	5386.9	4826.1	3649.5	2500.4	1936.6	1774.2	1801.8	1847.7	1909.0
4816.9	25°	5258.2	5451.2	4528.9	3048.9	1902.9	1630.2	1593.4	1639.4	1716.0	1719.0
4869.0	27.5°	5298.0	5405.3	4170.4	2463.6	1504.5	1424.9	1480.0	1513.7	1522.9	1559.7
4979.3	30°	5368.5	5310.3	3716.9	1761.9	1262.5	1265.5	1336.0	1336.0	1336.0	1363.6
5089.6	32.5°	5491.1	5245.9	3186.8	1287.0	1087.8	1185.8	1167.5	1161.3	1149.1	1115.4
5230.6	35°	5567.7	5071.3	2515.7	953.0	977.5	1087.8	1081.7	986.7	827.3	747.7
5589.1	37.5°	5727.0	4982.4	1850.8	735.4	913.1	1038.8	1005.1	775.2	600.6	524.0
6033.4	40°	6070.2	4924.2	1280.8	643.5	870.2	1014.3	897.8	661.9	459.6	324.8
6719.8	42.5°	6490.0	4927.2	870.2	606.7	873.3	1066.3	864.1	566.9	324.8	260.5
7636.0	45°	7053.8	4881.3	597.5	606.7	928.5	1152.1	885.6	514.8	315.6	330.9
8785.1	47.5°	7660.5	4921.1	444.3	551.6	937.6	1155.2	809.0	505.6	303.4	383.0
10035.3	50°	8368.3	4960.9	367.7	508.7	940.7	1118.4	744.6	493.3	315.6	404.5
11469.3	52.5°	9097.6	5086.6	312.5	481.1	977.5	1103.1	744.6	511.7	315.6	352.4
13295.6	55°	10185.4	5408.3	450.4	600.6	1112.3	1204.2	916.2	717.0	441.2	453.5
15045.2	57.5°	11386.6	5739.3	502.5	631.2	1142.9	1084.7	986.7	790.6	465.8	468.8
16405.8	60°	12177.2	5751.5	499.5	615.9	1069.4	937.6	965.2	833.5	475.0	401.4
17248.4	62.5°	12492.8	5377.7	520.9	615.9	995.9	876.4	989.7	897.8	490.3	502.5
17487.4	65°	12134.3	4605.5	502.5	551.6	876.4	784.4	995.9	910.1	536.2	505.6
17058.4	67°	11573.5	3968.1	511.7	524.0	815.1	744.6	1048.0	956.0	622.0	606.7
16834.7	67.5°	11414.2	3799.6	508.7	508.7	793.6	732.3	1060.2	956.0	634.3	628.2
14858.3	70°	10059.8	3079.5	520.9	502.5	701.7	695.6	1127.6	1008.1	729.3	735.4
10914.7	72.5°	7657.4	2334.9	517.9	502.5	609.8	664.9	1136.8	1041.8	793.6	735.4
6113.1	75°	4351.2	1397.3	456.6	438.2	481.1	579.1	1063.3	992.8	772.2	658.8
2442.2	77.5°	1798.7	720.1	419.8	395.3	398.3	471.9	885.6	925.4	735.4	560.7
815.1	80°	671.1	432.1	337.1	315.6	306.4	346.3	631.2	738.5	628.2	459.6
358.5	82.5°	349.3	269.7	229.8	229.8	208.4	220.6	340.1	490.3	475.0	315.6
144.0	85°	177.7	153.2	131.8	128.7	116.4	104.2	171.6	291.1	272.7	174.7
64.3	87.5°	95.0	85.8	55.2	52.1	42.9	27.6	30.6	58.2	95.0	76.6
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





<u>180°</u>
4066.2
4492.1
4642.3
4342.0
3814.9
3297.1
2699.6
2276.7
2016.2
1875.3
1749.7
1593.4
1394.2
1097.0
784.4
520.9
315.6
254.3
337.1
425.9
468.8
361.6
478.0
453.5
413.7
508.7
496.4
597.5
615.9
680.3
652.7
588.3
530.1
419.8
248.2
144.0
55.2
0.0

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