

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: P574741

Luminaire Tested: **EPH-VN-03-750-U-T3R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574741  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-750-U-T3R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

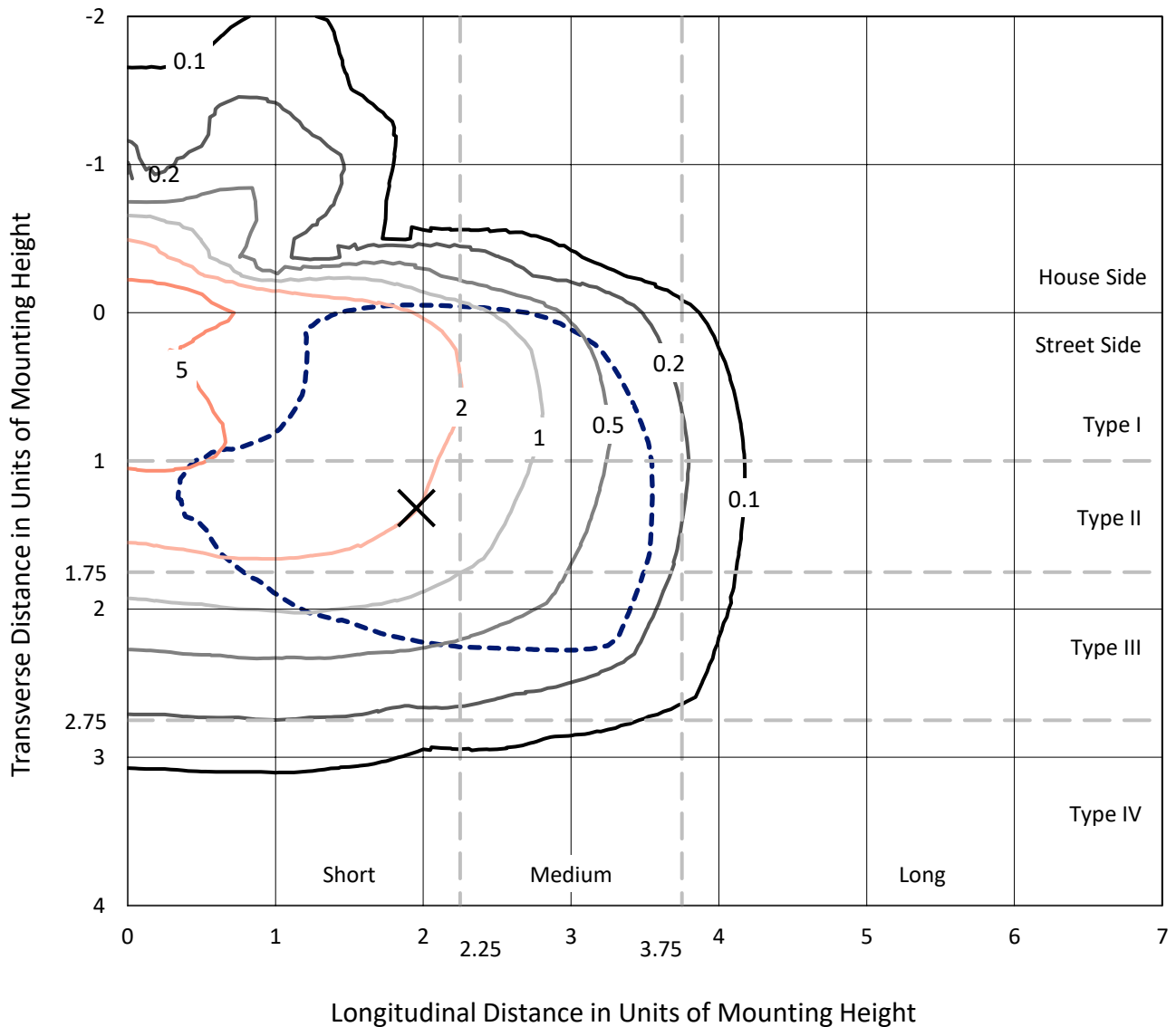
Lumens per Lamp: N/A  
Luminaire Lumens: 27102.6 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

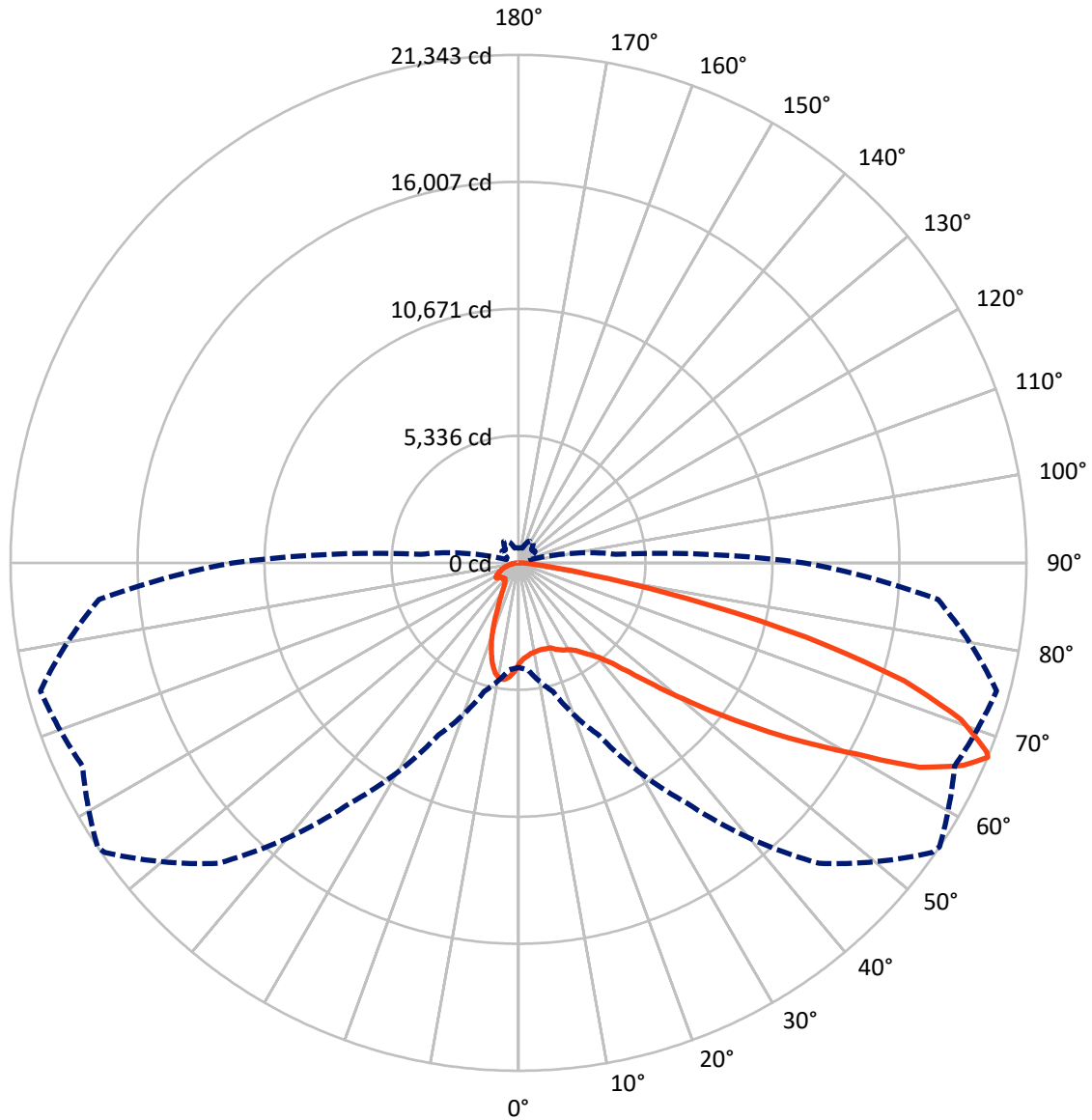
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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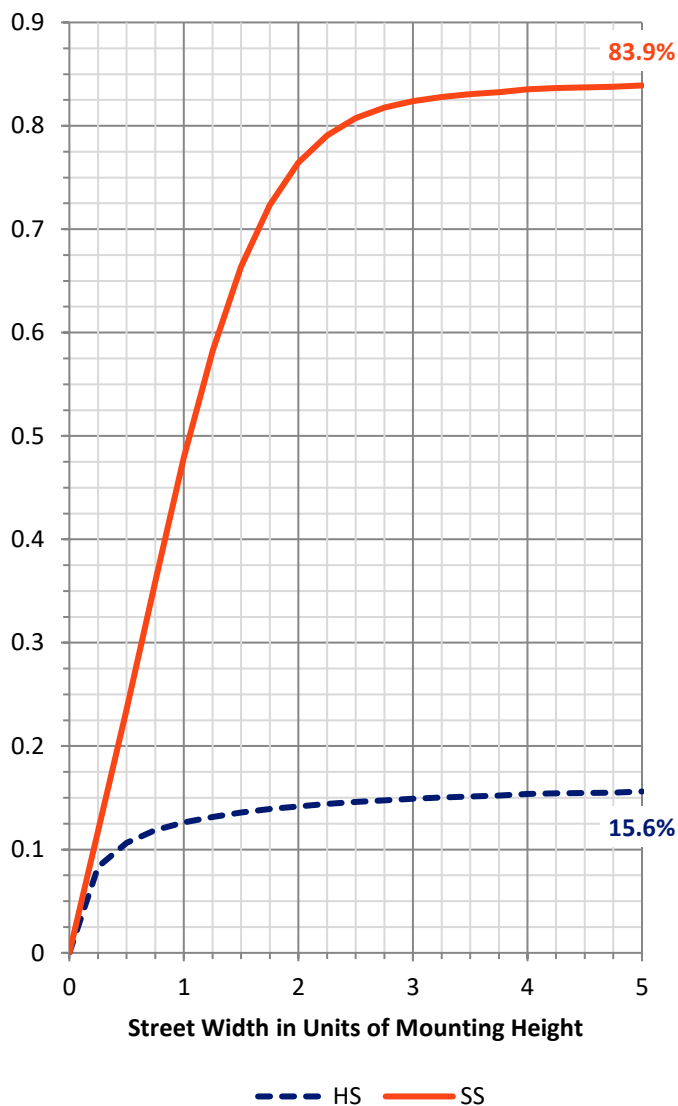
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4290.6	0.0	4290.6
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	22812.0	0.0	22812.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	27102.6	0.0	27102.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.3	1.5
10°-20°	1108.3	4.1
20°-30°	1738.2	6.4
30°-40°	2481.3	9.2
40°-50°	3745.0	13.8
50°-60°	5961.4	22.0
60°-70°	7621.2	28.1
70°-80°	3715.8	13.7
80°-90°	325.1	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°	27102.6	100.0
0°-180°	27102.6	100.0

**Coefficient of Utilization**

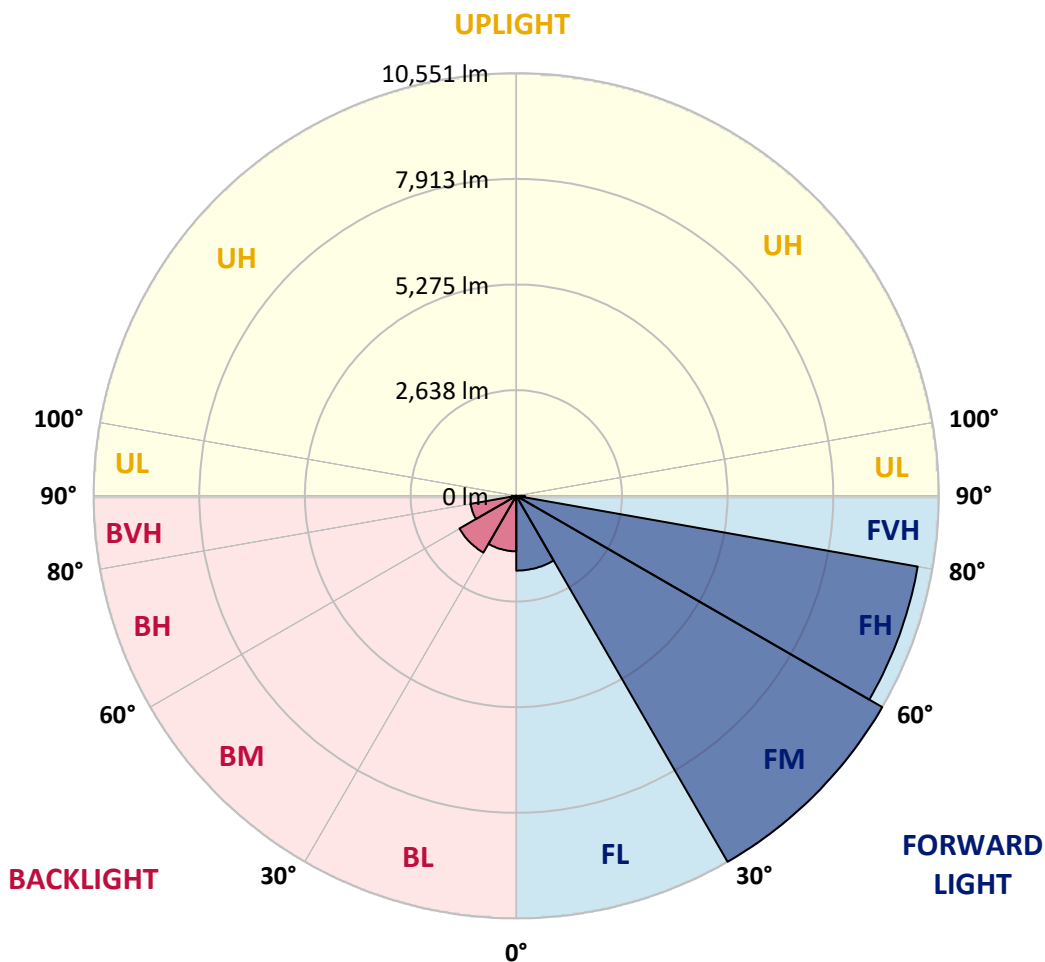


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1867.7	6.9			
FM (30°-60°)	10550.8	38.9			
FH (60°-80°)	10177.6	37.6			G4/12000
FVH (80°-90°)	215.9	0.8			G2/225
BL (0°-30°)	1385.1	5.1	B3/2500		
BM (30°-60°)	1636.9	6.0	B2/2500		
BH (60°-80°)	1159.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	109.2	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°	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1
2.5°	3873.9	3858.0	3877.1	3858.0	3943.8	3994.6	4010.5	4032.8	4112.2	4188.5
5°	3711.8	3641.9	3718.2	3743.6	3749.9	3835.7	3924.7	3940.6	3981.9	4105.9
7.5°	3441.7	3521.1	3492.5	3568.8	3648.2	3734.0	3880.2	3838.9	3991.5	4109.0
10°	3384.5	3390.8	3422.6	3451.2	3521.1	3632.4	3835.7	3810.3	3966.0	4217.1
12.5°	3441.7	3441.7	3432.1	3409.9	3489.3	3597.4	3759.5	3772.2	4016.9	4248.9
15°	3641.9	3680.0	3578.3	3594.2	3562.4	3597.4	3740.4	3769.0	4035.9	4274.3
17.5°	4131.3	4118.6	3997.8	3829.4	3689.6	3667.3	3765.8	3797.6	4016.9	4347.4
20°	4608.0	4582.6	4372.8	4198.0	3921.5	3791.3	3807.1	3810.3	4048.7	4395.1
22.5°	5138.7	5205.4	4976.6	4620.7	4277.5	3953.3	3889.8	3940.6	4121.8	4420.5
25°	5971.3	5828.3	5631.3	5164.1	4611.2	4204.4	4026.4	4051.8	4191.7	4484.0
27.5°	6571.9	6514.7	6206.5	5828.3	5078.3	4401.4	4099.5	4147.2	4318.8	4480.9
30°	7150.3	7150.3	6962.8	6397.1	5570.9	4731.9	4255.2	4233.0	4258.4	4474.5
32.5°	7827.2	7735.0	7464.9	7089.9	6190.6	5033.8	4379.2	4385.5	4385.5	4592.1
35°	8183.1	8332.5	8151.3	7541.2	6664.1	5535.9	4677.9	4630.2	4595.3	4722.4
37.5°	8704.3	8793.3	8602.6	8243.5	7252.0	5942.7	4941.7	4903.5	4700.1	4824.1
40°	9018.9	9003.0	8996.7	8831.4	8030.6	6422.6	5329.4	5230.8	4957.5	5183.2
42.5°	9196.9	9165.1	9556.0	9454.3	8764.7	7128.1	5815.6	5761.6	5459.7	5821.9
45°	9397.1	9632.3	9953.2	10239.2	9619.5	8119.6	6638.7	6562.4	6292.3	6753.1
47.5°	9571.9	9861.1	10271.0	10576.1	10391.8	9196.9	7655.6	7674.7	7496.7	7970.2
50°	9864.2	9892.8	10449.0	11065.5	11208.5	10191.6	9022.1	8990.3	8910.9	9575.1
52.5°	9775.3	9861.1	10563.4	11351.5	11586.7	11243.5	10490.3	10585.6	10480.8	11316.5
55°	8326.1	8583.5	10493.5	11653.4	12482.8	12432.0	12378.0	12314.4	12308.1	13274.1
57.5°	7668.3	7878.0	9244.5	11987.1	13442.6	13817.6	14167.1	14237.1	14233.9	15400.2
60°	7236.1	7452.2	8739.3	11805.9	14259.3	15632.2	16302.7	16312.2	16293.2	17672.4
62.5°	6390.8	6600.5	7865.3	10814.4	14484.9	17306.9	18800.5	18924.5	18050.5	19630.0
65°	5373.9	5545.5	6660.9	9298.6	13884.3	18371.5	20678.7	20532.5	19531.5	20748.6
67°	4395.1	4509.5	5596.3	7982.9	12314.4	17859.9	21222.1	21342.9	20214.7	20796.3
67.5°	4115.4	4220.3	5246.7	7534.8	11717.0	17472.2	21241.2	21222.1	20227.4	20805.8
70°	2856.9	2901.4	3575.2	5183.2	8631.2	14761.4	19690.4	19734.8	19378.9	19677.6
72.5°	1894.0	1960.8	2389.8	3266.9	5087.8	10741.3	16458.4	16935.1	16709.5	16134.3
75°	1220.3	1258.5	1563.5	1944.9	2504.2	6117.5	12158.7	12476.5	11958.5	9978.6
77.5°	683.3	724.6	943.8	1182.2	1220.3	2545.5	6829.3	7223.4	6120.7	4239.3
80°	425.8	479.9	711.9	702.3	581.6	934.3	2815.6	3015.8	2447.0	1458.7
82.5°	321.0	362.3	549.8	492.6	327.3	416.3	1055.1	1131.3	896.2	562.5
85°	219.3	276.5	397.2	305.1	171.6	200.2	419.5	451.3	410.0	273.3
87.5°	79.4	117.6	206.6	152.5	76.3	60.4	136.7	152.5	146.2	123.9
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4217.1	0°	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1
4255.2	2.5°	4315.6	4360.1	4382.3	4512.6	4566.7	4557.1	4569.8	4588.9	4608.0	4633.4
4309.3	5°	4350.6	4487.2	4560.3	4712.8	4814.5	4770.0	4827.3	4811.4	4789.1	4785.9
4407.8	7.5°	4465.0	4639.8	4859.0	4900.3	4944.8	4833.6	4738.3	4608.0	4576.2	4465.0
4490.4	10°	4668.4	4811.4	5078.3	5094.2	4897.2	4611.2	4398.2	4128.1	4124.9	3962.9
4617.5	12.5°	4862.2	5024.3	5240.4	5148.2	4677.9	4287.0	3940.6	3645.1	3521.1	3438.5
4693.8	15°	4983.0	5249.9	5364.3	4967.1	4293.4	3765.8	3317.7	3000.0	2872.8	2812.5
4789.1	17.5°	5094.2	5466.0	5415.2	4649.3	3819.9	3228.8	2694.9	2418.4	2383.4	2338.9
4941.7	20°	5246.7	5545.5	5234.0	4236.2	3282.8	2536.0	2195.9	2062.5	2094.2	2113.3
4957.5	22.5°	5389.7	5586.8	5005.2	3784.9	2593.2	2008.4	1840.0	1868.6	1916.3	1979.8
4995.7	25°	5453.3	5653.5	4697.0	3162.0	1973.5	1690.6	1652.5	1700.2	1779.6	1782.8
5049.7	27.5°	5494.6	5605.8	4325.1	2555.0	1560.4	1477.7	1534.9	1569.9	1579.4	1617.6
5164.1	30°	5567.7	5507.3	3854.8	1827.3	1309.3	1312.5	1385.6	1385.6	1385.6	1414.2
5278.5	32.5°	5694.8	5440.6	3305.0	1334.7	1128.2	1229.9	1210.8	1204.4	1191.7	1156.8
5424.7	35°	5774.3	5259.4	2609.1	988.3	1013.8	1128.2	1121.8	1023.3	858.0	775.4
5796.5	37.5°	5939.5	5167.3	1919.5	762.7	947.0	1077.3	1042.4	804.0	622.9	543.4
6257.3	40°	6295.4	5106.9	1328.4	667.4	902.5	1051.9	931.1	686.4	476.7	336.9
6969.2	42.5°	6730.8	5110.1	902.5	629.2	905.7	1105.9	896.2	587.9	336.9	270.1
7919.4	45°	7315.6	5062.4	619.7	629.2	962.9	1194.9	918.4	533.9	327.3	343.2
9111.1	47.5°	7944.8	5103.7	460.8	572.0	972.4	1198.1	839.0	524.4	314.6	397.2
10407.7	50°	8678.9	5145.0	381.3	527.5	975.6	1159.9	772.2	511.6	327.3	419.5
11894.9	52.5°	9435.2	5275.3	324.1	498.9	1013.8	1144.0	772.2	530.7	327.3	365.5
13789.0	55°	10563.4	5609.0	467.2	622.9	1153.6	1248.9	950.2	743.6	457.6	470.3
15603.6	57.5°	11809.1	5952.2	521.2	654.7	1185.4	1125.0	1023.3	819.9	483.0	486.2
17014.5	60°	12629.0	5964.9	518.0	638.8	1109.1	972.4	1001.0	864.4	492.6	416.3
17888.5	62.5°	12956.4	5577.2	540.2	638.8	1032.8	908.9	1026.5	931.1	508.5	521.2
18136.4	65°	12584.5	4776.4	521.2	572.0	908.9	813.5	1032.8	943.8	556.1	524.4
17691.4	67°	12003.0	4115.4	530.7	543.4	845.3	772.2	1086.8	991.5	645.1	629.2
17459.5	67.5°	11837.7	3940.6	527.5	527.5	823.1	759.5	1099.6	991.5	657.8	651.5
15409.7	70°	10433.1	3193.8	540.2	521.2	727.7	721.4	1169.5	1045.5	756.3	762.7
11319.7	72.5°	7941.6	2421.6	537.1	521.2	632.4	689.6	1179.0	1080.5	823.1	762.7
6339.9	75°	4512.6	1449.1	473.5	454.4	498.9	600.6	1102.7	1029.6	800.8	683.3
2532.8	77.5°	1865.4	746.8	435.4	410.0	413.1	489.4	918.4	959.7	762.7	581.6
845.3	80°	696.0	448.1	349.6	327.3	317.8	359.1	654.7	765.9	651.5	476.7
371.8	82.5°	362.3	279.7	238.3	238.3	216.1	228.8	352.7	508.5	492.6	327.3
149.4	85°	184.3	158.9	136.7	133.5	120.8	108.0	178.0	301.9	282.8	181.1
66.7	87.5°	98.5	89.0	57.2	54.0	44.5	28.6	31.8	60.4	98.5	79.4
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°
4217.1
4658.8
4814.5
4503.1
3956.5
3419.4
2799.7
2361.2
2091.1
1944.9
1814.6
1652.5
1446.0
1137.7
813.5
540.2
327.3
263.8
349.6
441.7
486.2
375.0
495.8
470.3
429.0
527.5
514.8
619.7
638.8
705.5
676.9
610.2
549.8
435.4
257.4
149.4
57.2
0.0

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