

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: P574613

Luminaire Tested: **EPH-VN-07-735-U-T2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574613  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-735-U-T2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

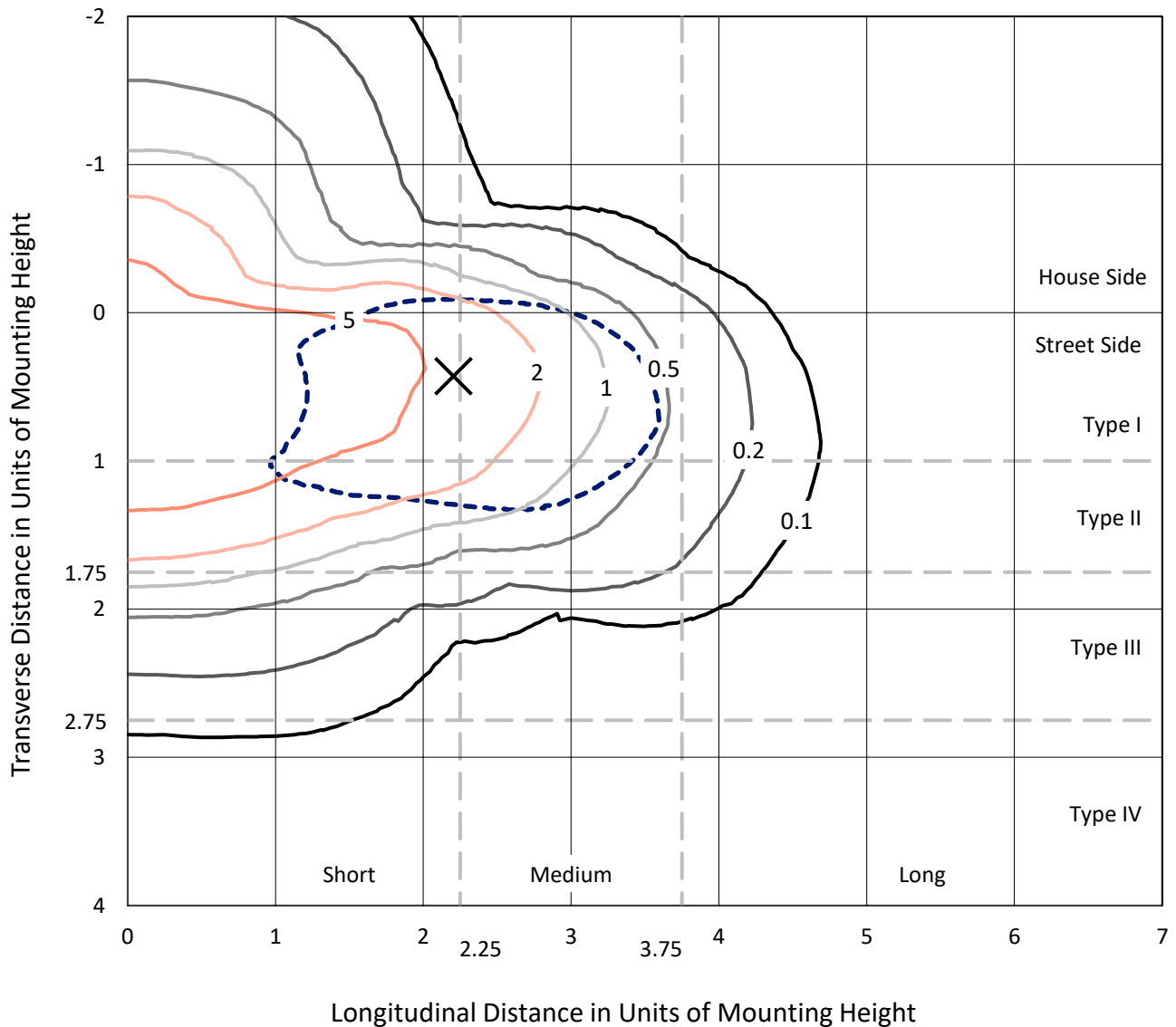
Lumens per Lamp: N/A  
Luminaire Lumens: 55610.9 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

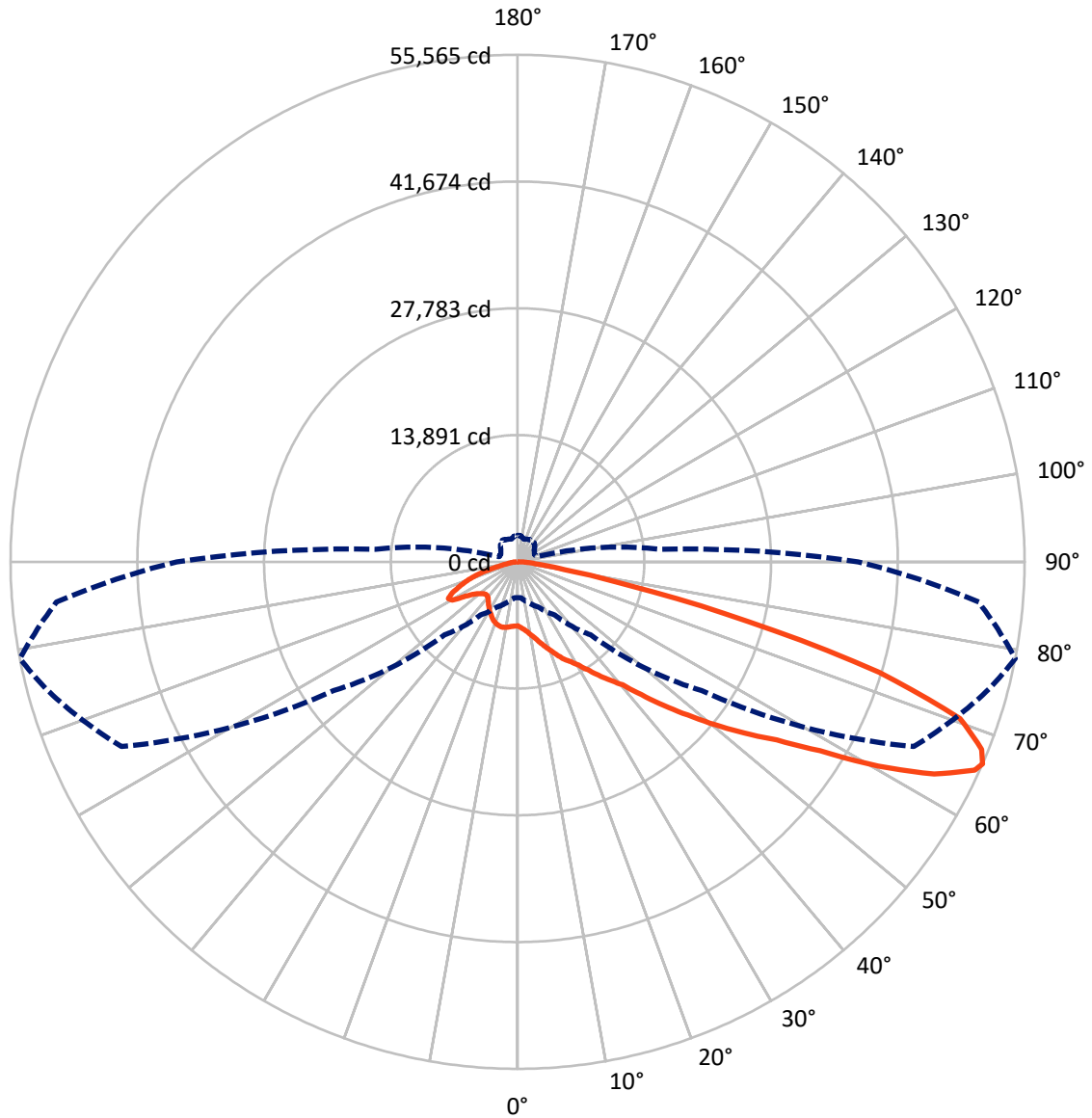
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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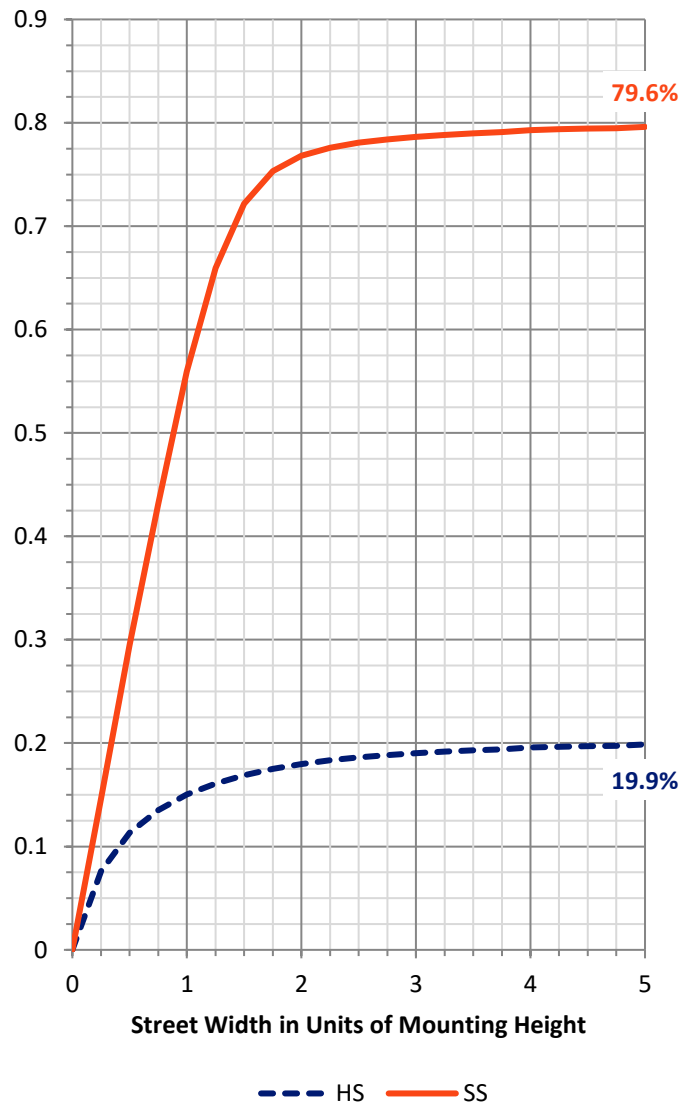
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11229.8	0.0	11229.8
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	44381.0	0.0	44381.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	55610.9	0.0	55610.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.5	1.2
10°-20°	2132.2	3.8
20°-30°	3659.9	6.6
30°-40°	5653.9	10.2
40°-50°	9056.1	16.3
50°-60°	13521.4	24.3
60°-70°	13893.2	25.0
70°-80°	6158.7	11.1
80°-90°	845.0	1.5
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°	55610.9	100.0
0°-180°	55610.9	100.0

**Coefficient of Utilization**

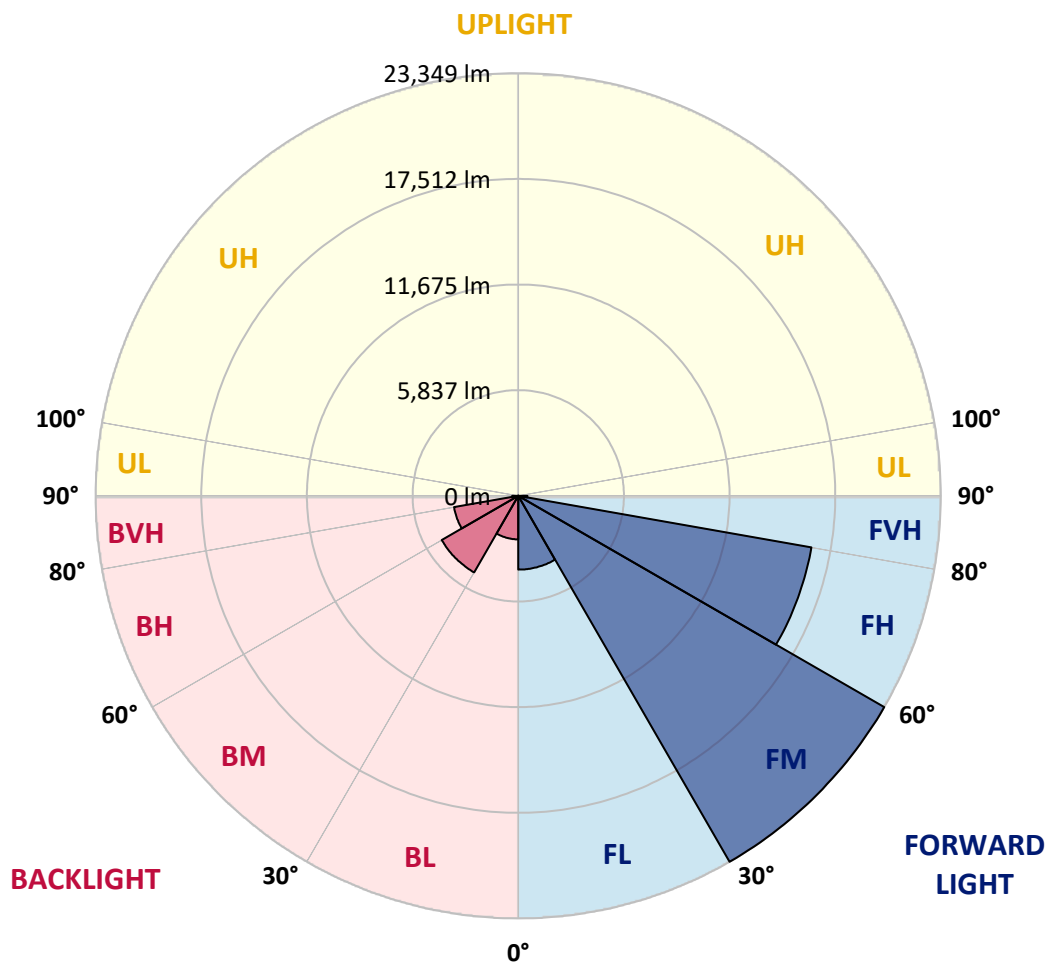


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4076.6	7.3			
FM (30°-60°)	23349.1	42.0			
FH (60°-80°)	16448.5	29.6			G5
FVH (80°-90°)	506.8	0.9			G4/750
BL (0°-30°)	2406.0	4.3	B3/2500		
BM (30°-60°)	4882.2	8.8	B3/5000		
BH (60°-80°)	3603.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	338.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1
2.5°	7468.6	7474.8	7474.8	7450.3	7456.4	7474.8	7407.5	7260.7	7260.7	7236.2
5°	7927.4	7896.8	7854.0	7860.1	7835.6	7835.6	7762.2	7621.6	7499.2	7450.3
7.5°	7988.6	8019.2	8013.0	8086.4	8123.1	8123.1	8159.8	8043.6	7860.1	7743.9
10°	8110.9	8031.4	8025.3	8196.5	8251.6	8380.0	8526.8	8465.7	8312.8	8147.6
12.5°	8184.3	8233.2	8233.2	8318.9	8447.3	8636.9	8893.9	9010.1	8771.5	8600.2
15°	8294.4	8227.1	8422.9	8496.3	8740.9	8875.5	9242.5	9542.2	9383.2	9175.2
17.5°	8343.3	8300.5	8410.6	8545.2	8961.1	9163.0	9609.5	10025.5	9890.9	9756.3
20°	8594.1	8588.0	8636.9	8747.1	9046.8	9444.4	10001.0	10576.0	10624.9	10380.2
22.5°	9205.8	9126.3	9126.3	9083.5	9211.9	9621.8	10374.1	11169.3	11389.5	11102.0
25°	9768.6	9878.7	9811.4	9615.6	9566.7	9780.8	10643.3	11799.3	12093.0	11823.8
27.5°	10490.3	10527.0	10643.3	10380.2	10043.8	10111.1	10936.9	12154.1	12759.7	12398.8
30°	11530.2	11462.9	11438.5	11144.8	10704.4	10612.7	11273.3	12674.0	13634.4	13126.7
32.5°	12233.6	12398.8	12392.7	11989.0	11456.8	11254.9	11689.2	13163.4	14570.3	14099.3
35°	13628.3	13799.5	13665.0	13071.6	12447.7	12044.0	12288.7	13799.5	15640.7	15273.7
37.5°	15408.3	15812.0	15524.5	14429.6	13548.8	13108.3	13120.6	14490.7	16735.6	16435.9
40°	16637.7	17182.1	16784.6	15756.9	14821.1	14405.1	14240.0	15310.4	18044.6	17726.5
42.5°	18160.8	18613.5	18405.5	17390.1	16295.2	15940.4	15610.1	16680.6	20044.8	19898.0
45°	19824.6	20038.7	19971.4	19329.1	18111.9	17989.6	17261.7	18485.0	22399.8	22461.0
47.5°	21372.2	21488.4	21616.8	21152.0	20393.5	20497.5	19164.0	20417.9	24687.5	25091.2
50°	21769.8	22167.4	22467.1	22779.0	22944.2	23647.6	21262.1	22791.3	27317.7	28100.7
52.5°	21366.1	21335.5	22246.9	23225.6	24877.1	26351.3	24118.6	25739.6	29642.1	31189.7
55°	19531.0	19469.8	20937.9	22234.6	25458.2	27856.0	28198.5	29666.6	32449.7	34462.2
57.5°	16319.7	15940.4	17543.0	19671.7	24198.1	28021.1	32296.8	35495.9	36768.2	39062.0
60°	10967.5	10808.4	12343.7	14882.2	19647.2	25678.4	34749.7	42793.3	42854.4	45435.7
62.5°	6753.0	6783.6	7768.4	9670.7	13756.7	20356.8	33691.4	48622.6	48634.8	51222.2
65°	4416.3	4434.7	5229.9	6282.0	8594.1	13805.7	27862.1	49081.4	52653.6	55057.5
66°	3933.1	3939.2	4624.3	5480.7	7120.0	11297.8	24608.0	47888.6	53558.9	55565.2
67.5°	3315.3	3394.8	3945.3	4606.0	5554.1	8117.0	19524.9	44438.7	53094.0	54855.6
70°	2593.5	2636.3	3070.6	3743.5	4165.6	4697.7	11603.6	36223.8	48598.1	51454.7
72.5°	2079.7	2116.4	2446.7	3040.1	3382.6	3095.1	6318.7	26284.0	38389.2	41435.3
75°	1755.5	1761.6	1920.7	2391.7	2783.2	2324.4	3364.3	16870.2	24632.4	26051.5
77.5°	1419.1	1443.6	1553.7	1822.8	2238.8	1828.9	2006.3	9450.5	12368.2	12472.2
80°	1156.1	1168.3	1235.6	1327.3	1706.6	1351.8	1357.9	4612.1	5303.3	5180.9
82.5°	911.4	923.6	1003.2	984.8	1253.9	966.5	844.1	2220.4	2440.6	2391.7
85°	513.8	513.8	789.1	789.1	795.2	611.7	513.8	1046.0	1290.6	1205.0
87.5°	165.2	171.3	238.6	250.8	397.6	275.3	250.8	391.5	611.7	538.3
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7022.1	0°	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1	7022.1
7193.4	2.5°	7168.9	7071.0	7028.2	6887.5	6850.8	6759.1	6716.3	6661.2	6642.9	6563.3
7321.8	5°	7224.0	7193.4	7022.1	6844.7	6710.2	6649.0	6557.2	6434.9	6422.7	6312.6
7615.4	7.5°	7456.4	7352.4	7052.7	6863.1	6593.9	6441.0	6239.2	6178.0	6098.5	6061.8
7976.3	10°	7817.3	7554.3	7107.7	6630.6	6300.3	6116.8	5970.0	5927.2	5933.3	5908.8
8337.2	12.5°	8074.2	7823.4	7016.0	6434.9	6006.7	5829.3	5817.1	5859.9	5927.2	5896.6
8759.3	15°	8441.2	7970.2	6948.7	6110.7	5768.2	5719.2	5713.1	5841.6	5835.4	5835.4
9328.1	17.5°	8783.8	8117.0	6704.0	5829.3	5517.4	5554.1	5596.9	5590.8	5651.9	5676.4
9799.1	20°	9218.0	8288.3	6361.5	5548.0	5327.7	5315.5	5309.4	5315.5	5376.7	5413.4
10331.3	22.5°	9597.3	8325.0	6074.0	5278.8	5101.4	5052.5	4973.0	5052.5	5021.9	5034.1
11053.1	25°	9927.6	8331.1	5664.2	5077.0	4875.1	4765.0	4703.8	4697.7	4642.7	4636.5
11462.9	27.5°	10202.9	8123.1	5303.3	4795.6	4606.0	4502.0	4495.9	4428.6	4287.9	4196.1
11946.1	30°	10416.9	7964.1	5052.5	4550.9	4367.4	4349.1	4294.0	4141.1	3957.6	3841.4
12839.2	32.5°	10796.2	7646.0	4710.0	4300.1	4208.4	4183.9	4055.5	3920.9	3749.6	3639.5
13597.7	35°	11077.6	7352.4	4483.6	4086.0	4043.2	3994.3	3884.2	3737.4	3688.4	3664.0
14411.2	37.5°	11395.6	7022.1	4208.4	3902.5	3945.3	3853.6	3725.1	3657.9	3829.1	3786.3
15683.5	40°	11903.3	6789.7	3939.2	3792.4	3835.2	3731.3	3566.1	3541.6	3755.7	3602.8
17316.7	42.5°	12833.1	6783.6	3774.1	3627.3	3657.9	3578.3	3431.5	3419.3	3504.9	3321.4
19359.7	45°	13989.2	6997.6	3651.7	3504.9	3480.5	3468.2	3419.3	3364.3	3290.8	3052.3
21635.2	47.5°	15371.6	7346.3	3627.3	3321.4	3352.0	3456.0	3394.8	3254.1	3064.5	2911.6
24167.6	50°	17047.6	8068.1	3566.1	3186.9	3241.9	3407.1	3358.1	3162.4	2991.1	2893.3
26485.8	52.5°	18901.0	8979.5	3486.6	2978.9	3101.2	3364.3	3388.7	3205.2	2954.4	2868.8
29623.8	55°	21084.7	10325.2	3394.8	2752.6	2936.1	3321.4	3388.7	3082.9	2905.5	2905.5
34413.2	57.5°	25397.0	12747.5	3205.2	2544.6	2789.3	3241.9	3290.8	3089.0	2911.6	2911.6
41845.2	60°	31721.8	16527.6	2844.3	2385.6	2648.6	3131.8	3217.4	2997.2	2844.3	2881.0
47962.0	62.5°	36670.3	17677.6	2538.5	2232.6	2507.9	2930.0	3119.6	2899.4	2764.8	2899.4
50763.5	65°	37728.5	16515.4	2226.5	2067.5	2312.2	2734.2	2978.9	2758.7	2648.6	2911.6
50726.8	66°	37349.3	15610.1	2116.4	2018.6	2226.5	2636.3	2893.3	2709.8	2587.4	2899.4
49576.8	67.5°	35661.1	14252.2	1994.1	1914.6	2110.3	2495.7	2795.4	2642.5	2489.5	2862.7
45392.9	70°	31991.0	12086.8	1786.1	1731.1	1945.1	2263.2	2569.1	2471.2	2336.6	2636.3
35703.9	72.5°	24638.5	9658.5	1565.9	1572.0	1755.5	2024.7	2342.7	2275.5	2159.2	2312.2
21873.7	75°	15004.6	6171.9	1364.1	1376.3	1529.2	1798.3	2128.7	2079.7	1939.0	2024.7
10111.1	77.5°	6649.0	3058.4	1150.0	1174.4	1296.8	1584.3	1853.4	1773.9	1627.1	1645.4
4110.5	80°	2581.3	1449.7	935.9	966.5	1046.0	1266.2	1535.3	1461.9	1333.5	1309.0
1890.1	82.5°	1241.7	807.4	721.8	734.0	764.6	1009.3	1321.2	1229.5	1058.2	948.1
886.9	85°	623.9	501.6	507.7	464.9	507.7	685.1	893.1	746.3	617.8	550.5
318.1	87.5°	250.8	250.8	250.8	214.1	226.3	324.2	415.9	281.4	256.9	152.9
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°
7022.1
6636.7
6300.3
6141.3
5872.1
5939.4
5829.3
5719.2
5382.8
5070.8
4636.5
4208.4
3841.4
3621.2
3682.3
3804.7
3566.1
3266.4
2991.1
2881.0
2874.9
2856.6
2893.3
2887.1
2874.9
2911.6
2923.8
2905.5
2807.6
2538.5
2251.0
1994.1
1633.2
1296.8
948.1
562.7
152.9
0.0

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