

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: P574684

Luminaire Tested: **EPH-VN-04-730-U-T3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574684  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-730-U-T3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

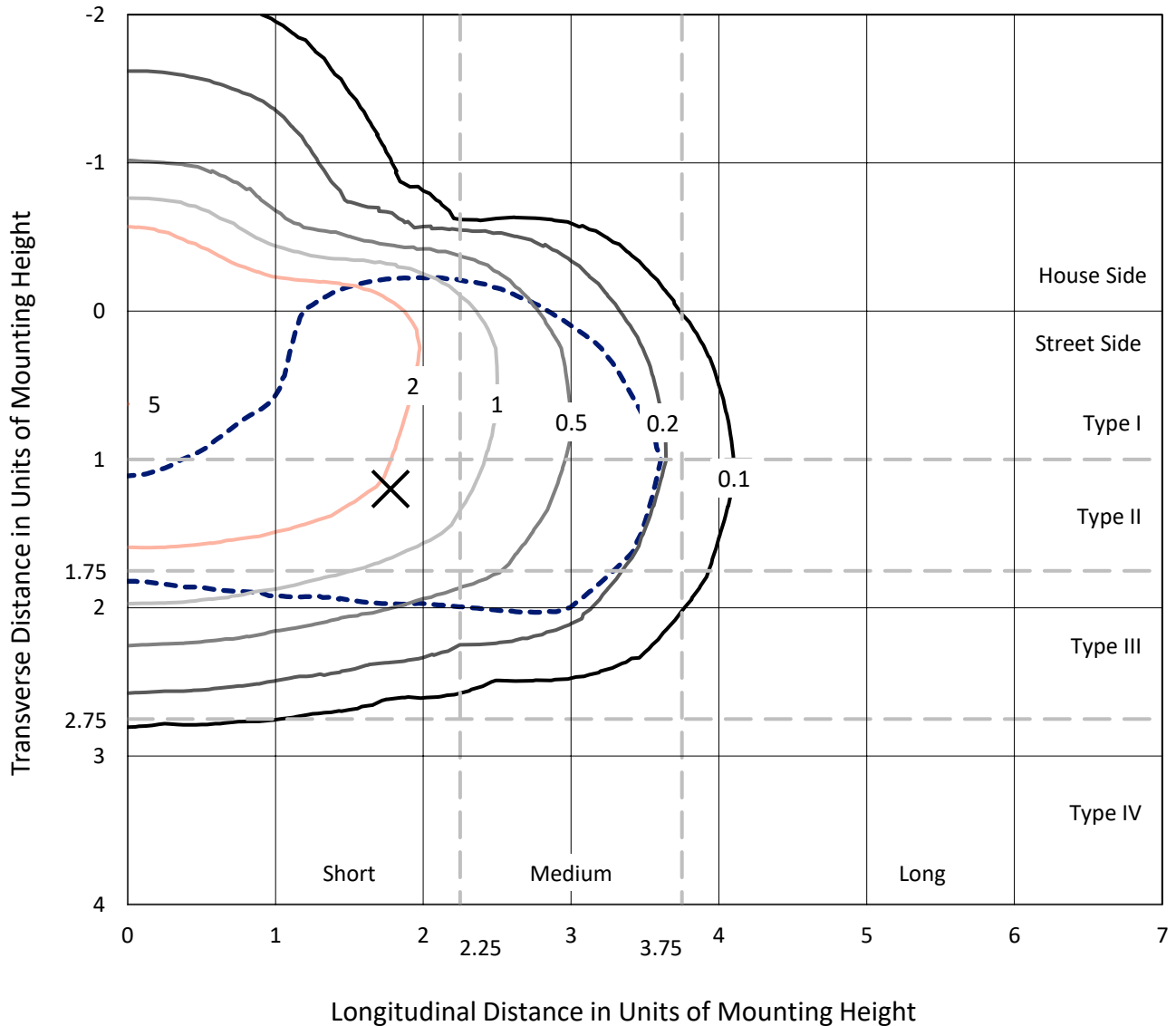
Lumens per Lamp: N/A  
Luminaire Lumens: 32437.8 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

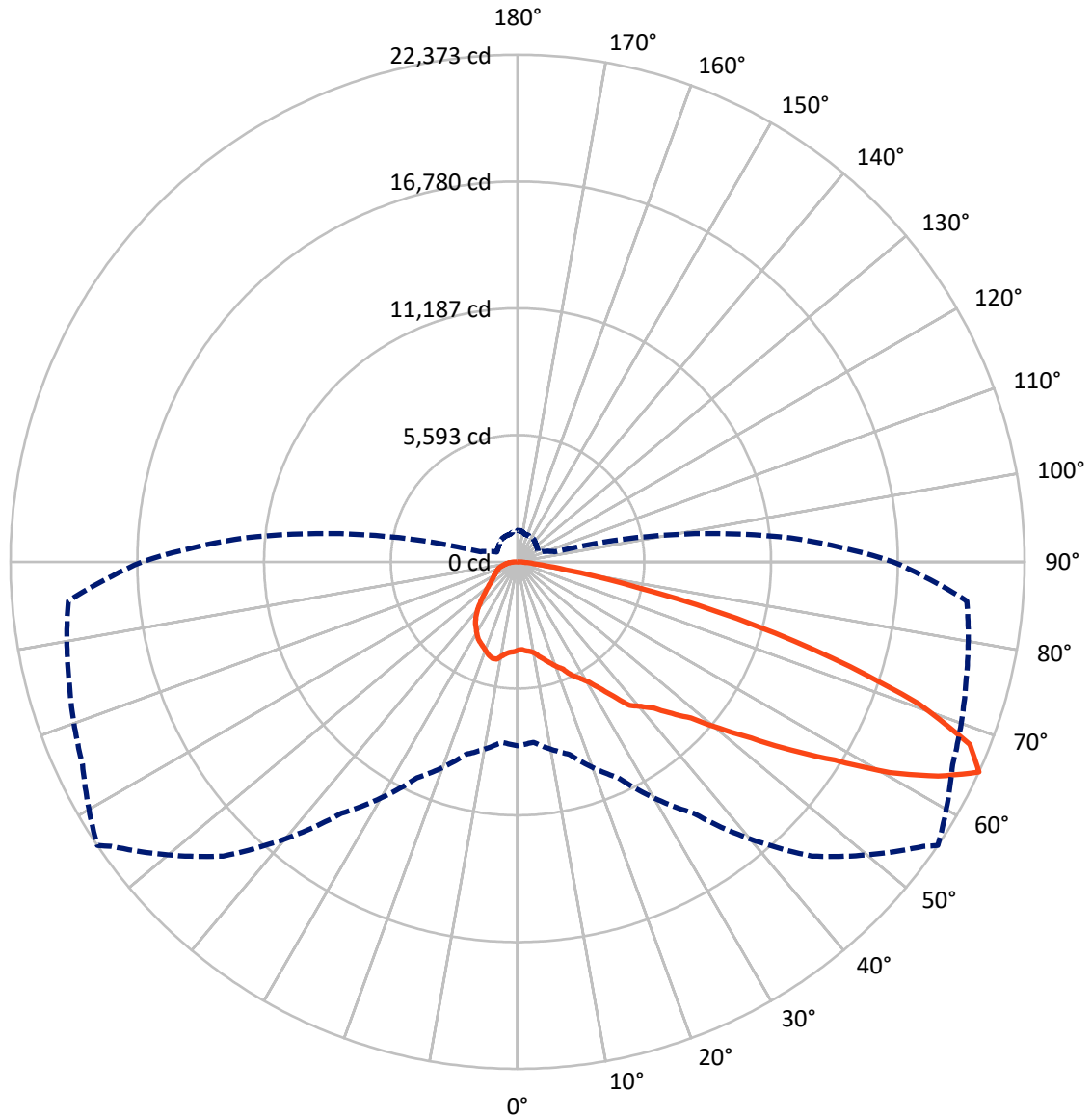
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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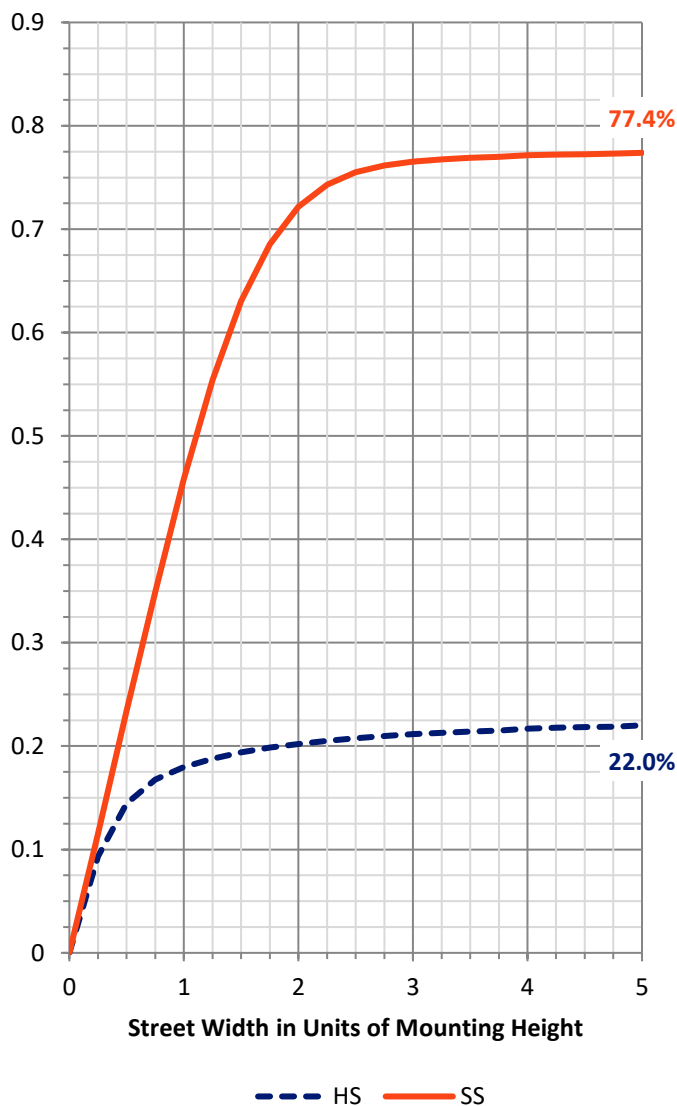
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7274.7	0.0	7274.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	25163.0	0.0	25163.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	32437.8	0.0	32437.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.8	1.2
10°-20°	1252.8	3.9
20°-30°	2230.8	6.9
30°-40°	3340.5	10.3
40°-50°	4949.3	15.3
50°-60°	7626.2	23.5
60°-70°	8633.8	26.6
70°-80°	3583.1	11.0
80°-90°	435.3	1.3
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°	32437.8	100.0
0°-180°	32437.8	100.0

**Coefficient of Utilization**



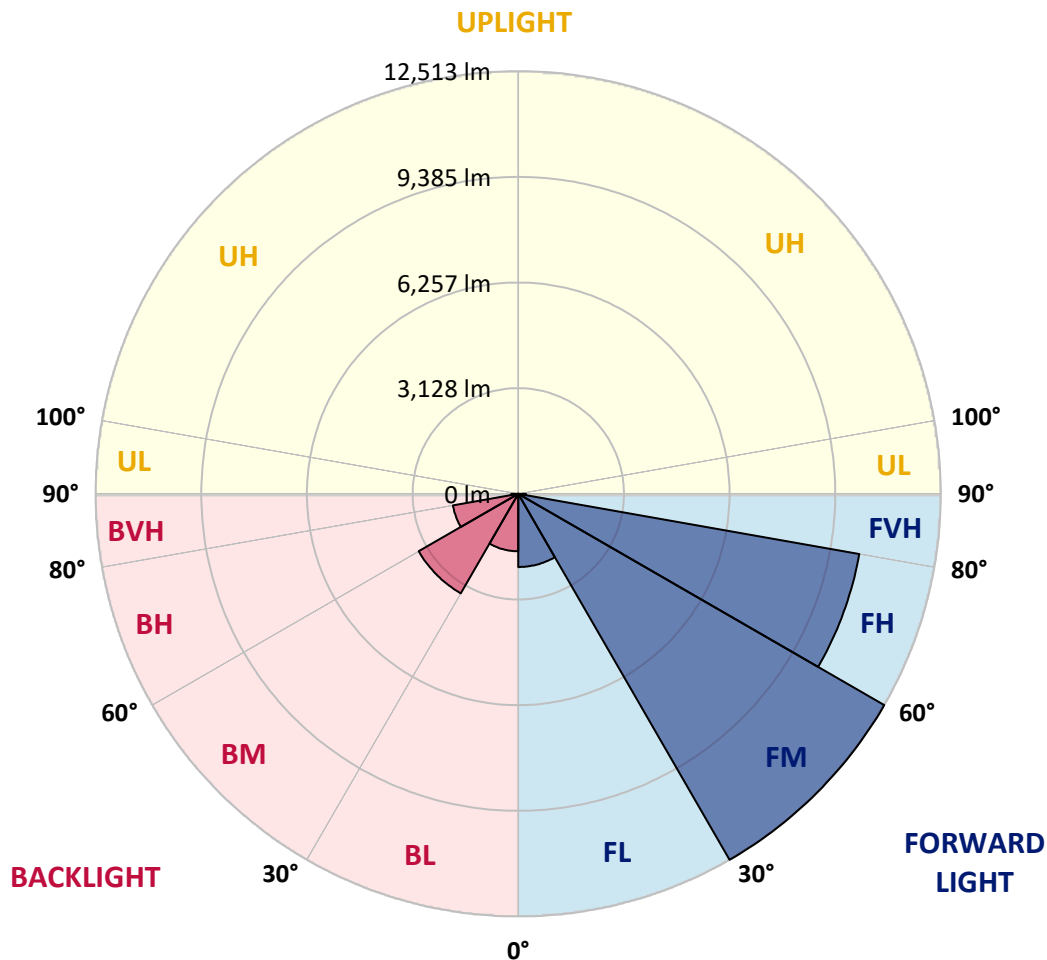
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2167.8	6.7			
FM (30°-60°)	12513.1	38.6			
FH (60°-80°)	10252.5	31.6			G4/12000
FVH (80°-90°)	229.6	0.7			G3/500
BL (0°-30°)	1701.6	5.2	B3/2500		
BM (30°-60°)	3403.0	10.5	B3/5000		
BH (60°-80°)	1964.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	205.7	0.6			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°	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5
2.5°	3791.6	3812.0	3798.4	3839.1	3873.1	3873.1	3900.2	3879.9	3907.0	3944.4
5°	3917.2	3835.8	3879.9	3900.2	3890.1	3907.0	3879.9	3947.8	3903.6	3974.9
7.5°	3947.8	3978.3	4015.7	3981.7	4012.3	3995.3	3998.7	3988.5	3964.7	4022.4
10°	4171.8	4127.7	4212.5	4161.6	4154.8	4148.0	4134.5	4083.5	4141.3	4144.6
12.5°	4429.8	4389.1	4385.7	4344.9	4399.2	4300.8	4321.2	4294.0	4304.2	4317.8
15°	4616.5	4599.5	4677.6	4630.1	4558.8	4514.6	4562.2	4487.5	4524.8	4518.0
17.5°	4986.5	4983.1	4925.4	4847.3	4806.6	4742.1	4731.9	4701.3	4728.5	4714.9
20°	5244.5	5281.8	5292.0	5200.3	5044.2	4972.9	4955.9	4932.2	4962.7	4952.5
22.5°	5638.2	5580.5	5624.6	5465.1	5407.4	5237.7	5176.6	5142.6	5288.6	5251.2
25°	5889.4	5950.5	5906.4	5852.1	5723.1	5512.6	5468.5	5543.2	5600.9	5560.1
27.5°	6456.3	6395.2	6354.4	6191.5	6106.7	5886.0	5835.1	5807.9	5821.5	5845.3
30°	6887.4	6921.3	6829.7	6714.3	6500.4	6276.4	6157.6	6133.8	6086.3	6045.6
32.5°	7501.8	7450.9	7396.6	7321.9	7138.6	6843.3	6727.8	6639.6	6497.0	6306.9
35°	7797.1	7943.1	7902.3	7702.1	7562.9	7450.9	7416.9	7281.1	7162.3	6863.6
37.5°	8289.3	8350.4	8292.7	8228.2	8163.7	8044.9	8004.2	8041.5	7807.3	7315.1
40°	8608.4	8737.4	8856.2	8676.3	8662.7	8686.5	8435.3	8391.1	7909.1	7651.1
42.5°	9260.1	9314.4	9338.2	9331.4	9409.5	9409.5	8930.9	8835.8	8493.0	8282.5
45°	10122.3	10166.4	10251.3	10312.4	10224.1	10268.3	9586.0	9548.6	9243.1	9202.4
47.5°	10869.1	10974.3	11164.4	11344.3	11459.7	11310.4	10563.6	10298.8	10220.8	10465.2
50°	11520.8	11395.2	11839.9	12023.2	12529.0	12776.8	11643.0	11537.8	11412.2	11880.6
52.5°	11585.3	11755.1	12383.0	12749.6	13791.7	14250.0	12966.9	12922.8	12770.0	13309.7
55°	12047.0	12026.6	12658.0	13452.3	14691.3	15461.8	14691.3	14664.1	14331.5	14844.0
57.5°	11968.9	12176.0	12675.0	13784.9	15502.5	16761.9	16690.6	16503.9	16038.9	16456.4
60°	11704.1	11758.4	12366.1	13774.8	15974.4	18095.9	18849.5	18886.8	17936.4	18269.0
62.5°	10203.8	10329.4	11099.9	12691.9	15638.3	19015.8	20957.5	20825.1	20064.7	19684.5
65°	8116.2	7990.6	8791.7	10512.7	13547.3	18364.1	21880.8	22373.0	21178.1	20482.2
67.5°	4976.3	4945.7	5716.3	7233.6	10135.9	15628.1	21144.2	21527.7	20869.2	20312.5
70°	2562.8	2484.8	2966.8	4036.0	6371.4	11466.5	18401.4	18778.2	19406.2	18218.1
72.5°	1194.9	1177.9	1435.9	1985.8	3245.1	6741.4	14250.0	14521.5	15845.4	15360.0
75°	702.7	712.8	858.8	1038.7	1581.8	3177.2	9457.0	9983.1	11419.0	11069.4
77.5°	526.1	526.1	611.0	723.0	923.3	1228.8	4667.4	5363.3	6676.9	6004.8
80°	387.0	393.8	468.4	543.1	641.6	634.8	1853.4	2172.5	3061.8	2617.1
82.5°	302.1	312.3	363.2	403.9	451.5	383.6	760.4	818.1	1259.3	1001.4
85°	210.5	217.2	285.1	275.0	275.0	213.9	315.7	332.7	499.0	475.2
87.5°	50.9	57.7	139.2	152.8	115.4	64.5	98.4	112.0	179.9	207.1
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°
3893.5	0°	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5
3961.3	2.5°	3910.4	3924.0	3981.7	3951.2	3968.1	3896.9	3954.6	3907.0	3947.8	3927.4
3991.9	5°	4019.1	3988.5	4022.4	3998.7	3998.7	4025.8	4066.6	4036.0	4097.1	4070.0
4015.7	7.5°	4063.2	4066.6	4086.9	4090.3	4073.4	4158.2	4161.6	4151.4	4209.1	4195.6
4178.6	10°	4171.8	4175.2	4212.5	4232.9	4215.9	4246.5	4212.5	4185.4	4182.0	4168.4
4307.6	12.5°	4344.9	4378.9	4372.1	4389.1	4392.4	4263.5	4185.4	4053.0	4036.0	4053.0
4497.7	15°	4504.5	4490.9	4497.7	4531.6	4389.1	4182.0	4042.8	3930.8	3937.6	3941.0
4745.5	17.5°	4694.6	4704.7	4714.9	4558.8	4297.4	4053.0	3930.8	3930.8	3896.9	3910.4
4918.6	20°	4911.8	4871.1	4782.8	4562.2	4137.9	3903.6	3866.3	3866.3	3825.6	3798.4
5105.3	22.5°	5081.5	5000.1	4867.7	4456.9	3995.3	3845.9	3754.3	3689.8	3642.3	3588.0
5312.3	25°	5190.1	5146.0	4888.0	4348.3	3890.1	3693.2	3557.4	3459.0	3397.9	3326.6
5475.3	27.5°	5356.5	5271.6	4945.7	4222.7	3774.7	3540.4	3330.0	3177.2	3061.8	2987.1
5723.1	30°	5580.5	5458.3	4905.0	4042.8	3598.1	3275.7	3027.9	2831.0	2698.6	2637.5
5957.3	32.5°	5763.8	5604.3	4871.1	3879.9	3401.3	3007.5	2678.2	2478.0	2403.3	2325.2
6351.1	35°	6113.4	5797.8	4847.3	3788.2	3224.7	2739.3	2393.1	2220.0	2124.9	2009.5
6585.3	37.5°	6381.6	6133.8	4789.6	3598.1	2997.3	2478.0	2175.9	2019.7	1877.1	1754.9
7128.4	40°	6802.5	6602.2	4793.0	3330.0	2729.2	2253.9	2006.1	1843.2	1663.3	1558.1
7932.9	42.5°	7593.4	7063.9	4813.4	3116.1	2427.0	2070.6	1853.4	1659.9	1480.0	1391.7
8849.4	45°	8564.2	7698.7	4687.8	2922.6	2118.1	1897.5	1670.1	1476.6	1361.2	1296.7
10095.2	47.5°	9681.0	8319.8	4518.0	2559.4	1860.2	1714.2	1500.4	1388.3	1303.5	1266.1
11700.7	50°	10930.2	9209.2	4470.5	2226.8	1659.9	1558.1	1418.9	1334.0	1276.3	1232.2
13510.0	52.5°	12539.2	10244.5	4375.5	1883.9	1486.8	1432.5	1388.3	1330.6	1279.7	1242.4
15197.0	55°	14076.9	11391.8	4273.6	1602.2	1364.6	1371.4	1395.1	1344.2	1300.1	1242.4
17087.8	57.5°	15808.1	12562.9	3896.9	1395.1	1272.9	1340.8	1388.3	1330.6	1286.5	1242.4
19022.6	60°	16877.3	13221.5	3160.3	1215.2	1191.5	1283.1	1347.6	1286.5	1239.0	1256.0
19912.0	62.5°	17311.8	12875.2	2382.9	1103.2	1133.8	1205.0	1283.1	1259.3	1225.4	1289.9
19901.8	65°	16571.8	12077.5	1704.0	1008.2	1055.7	1127.0	1225.4	1252.6	1262.7	1388.3
18279.2	67.5°	14745.6	10516.1	1252.6	930.1	974.2	1079.4	1266.1	1310.3	1303.5	1459.6
15339.6	70°	11799.2	8224.8	977.6	865.6	943.7	1116.8	1323.8	1323.8	1276.3	1459.6
11700.7	72.5°	8584.6	5797.8	841.8	790.9	865.6	1025.1	1317.1	1313.7	1252.6	1334.0
7450.9	75°	5196.9	3374.1	743.4	716.2	743.4	879.2	1259.3	1239.0	1154.1	1147.3
3584.6	77.5°	2590.0	1697.2	607.6	634.8	648.3	736.6	1106.6	1137.1	1021.7	994.6
1415.5	80°	1093.0	740.0	505.8	546.5	546.5	621.2	919.9	940.3	848.6	797.7
560.1	82.5°	499.0	424.3	431.1	475.2	444.7	482.0	729.8	753.6	689.1	604.2
237.6	85°	210.5	241.0	329.3	373.4	329.3	312.3	502.4	529.5	448.1	373.4
101.8	87.5°	95.0	132.4	207.1	271.6	166.3	146.0	268.2	278.3	224.0	166.3
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>
3893.5
3890.1
4032.6
4175.2
4168.4
4059.8
3988.5
3913.8
3757.7
3557.4
3340.2
3021.1
2671.4
2321.8
1999.3
1758.3
1568.2
1398.5
1310.3
1259.3
1239.0
1239.0
1239.0
1239.0
1242.4
1272.9
<b>1388.3</b>
1469.8
1429.1
1286.5
1133.8
977.6
780.7
590.6
376.8
156.1
0.0

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