

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: P574735

Luminaire Tested: **EPH-VN-03-740-U-T3R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574735  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-740-U-T3R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

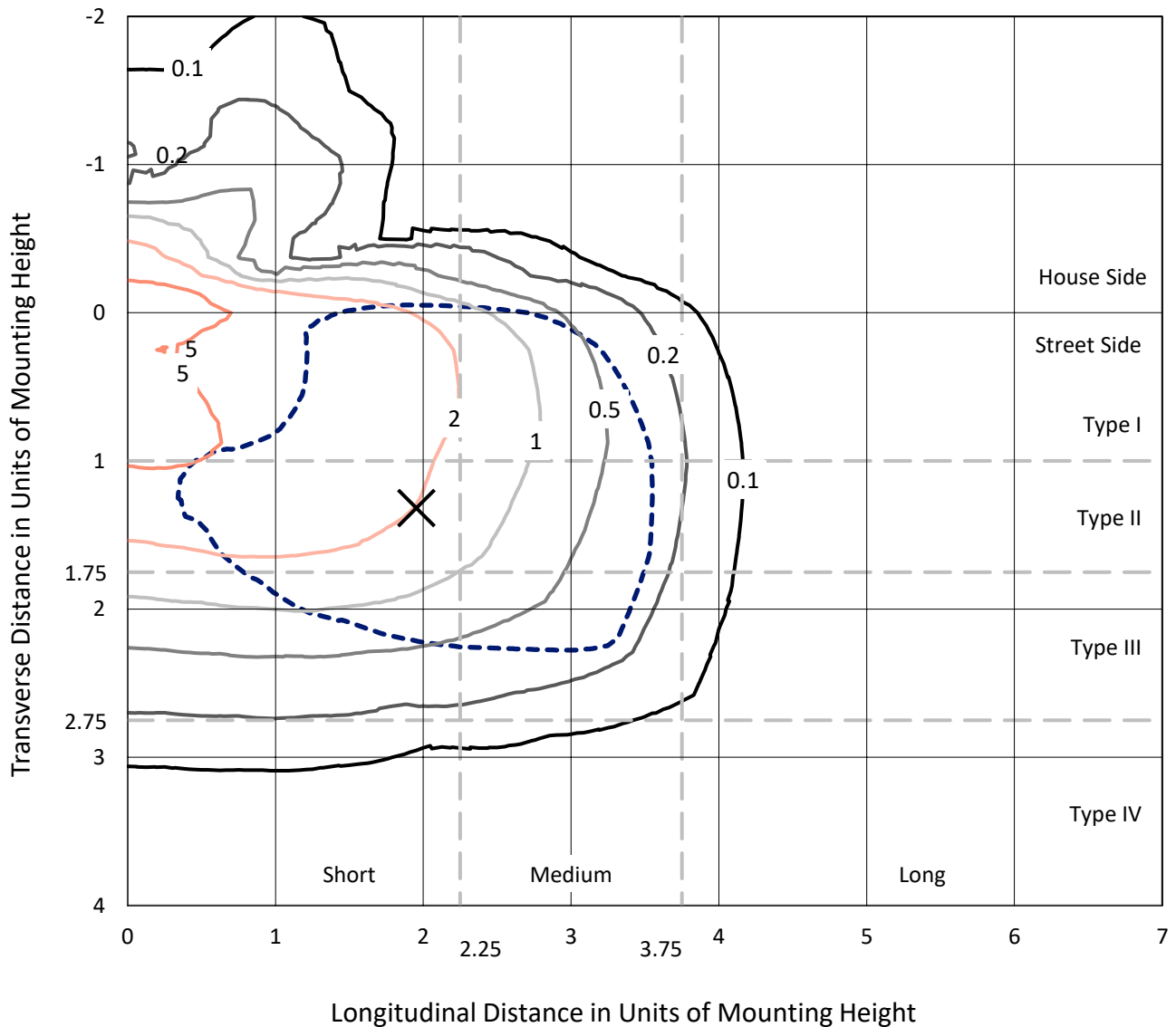
Lumens per Lamp: N/A  
Luminaire Lumens: 26495.8 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

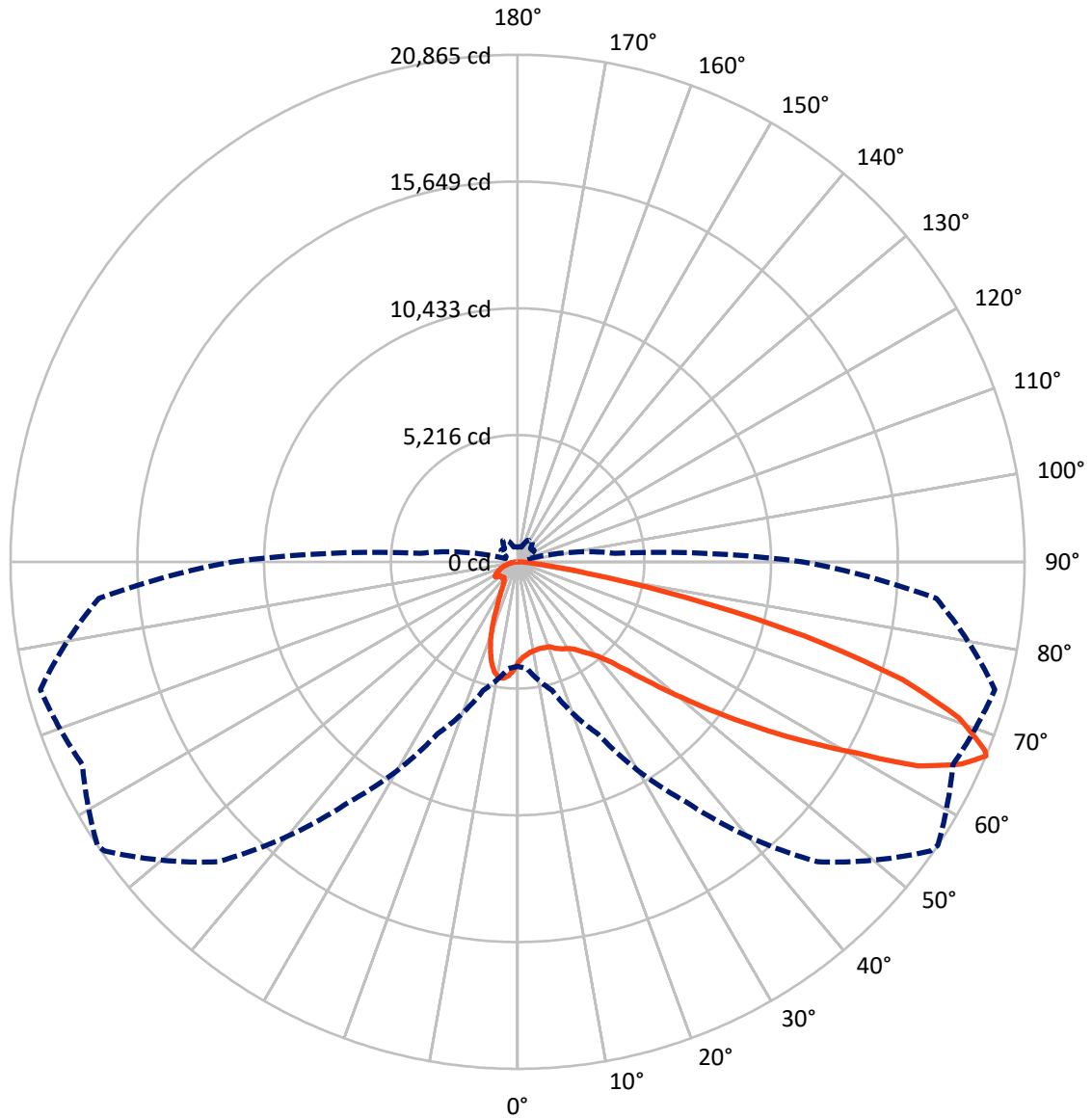
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P574735  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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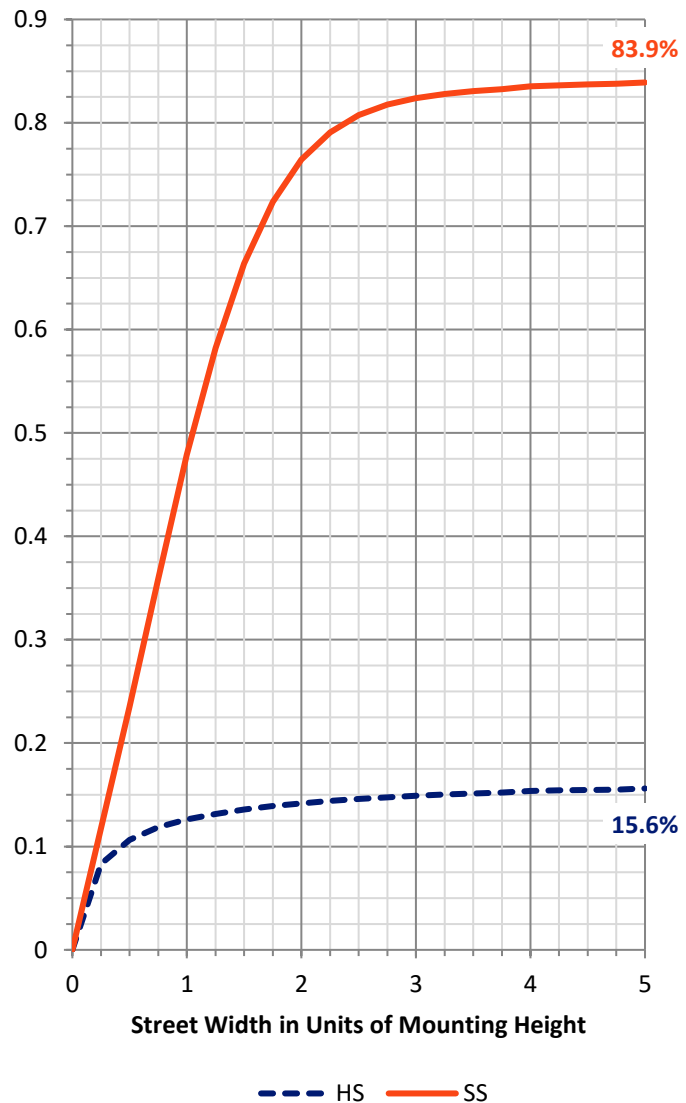
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4194.6	0.0	4194.6
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	22301.3	0.0	22301.3
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	26495.8	0.0	26495.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.2	1.5
10°-20°	1083.5	4.1
20°-30°	1699.3	6.4
30°-40°	2425.8	9.2
40°-50°	3661.2	13.8
50°-60°	5827.9	22.0
60°-70°	7450.6	28.1
70°-80°	3632.6	13.7
80°-90°	317.8	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°	26495.8	100.0
0°-180°	26495.8	100.0

**Coefficient of Utilization**

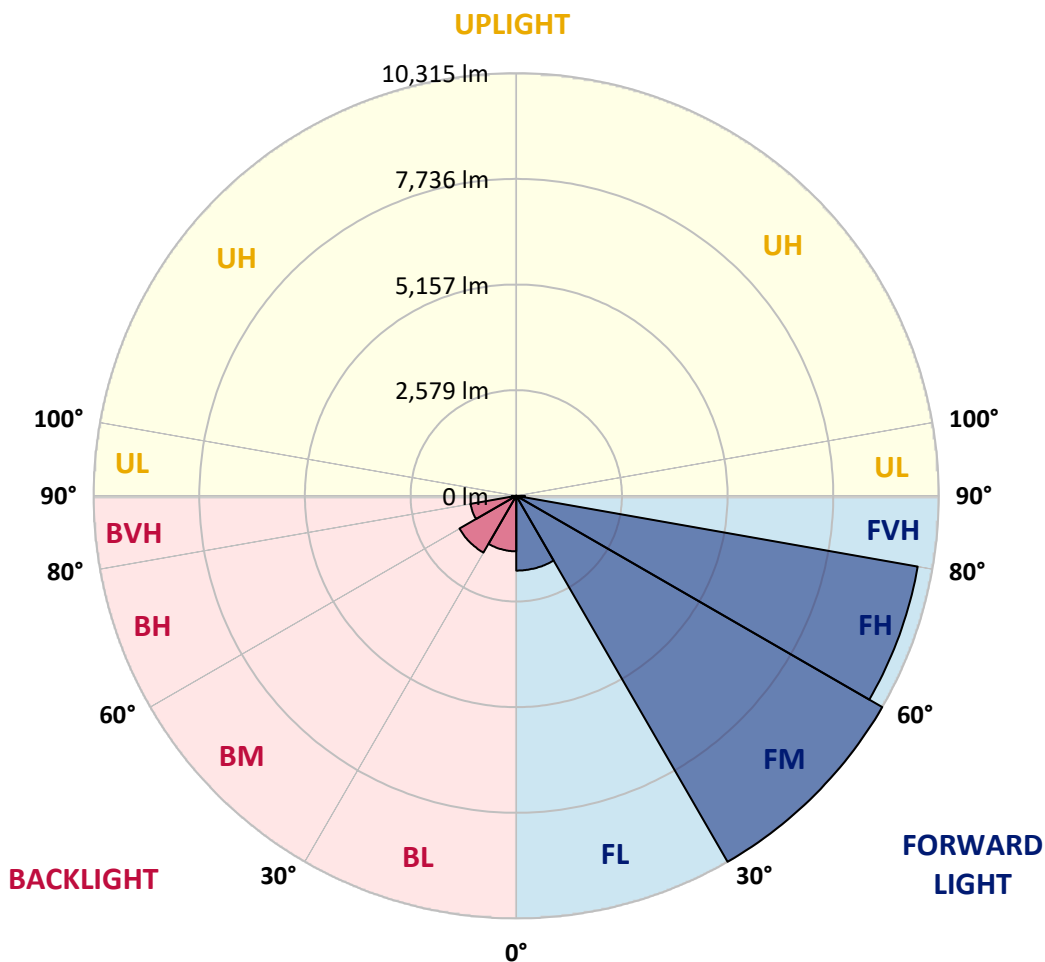


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.9	6.9			
FM (30°-60°)	10314.6	38.9			
FH (60°-80°)	9949.8	37.6			G4/12000
FVH (80°-90°)	211.0	0.8			G2/225
BL (0°-30°)	1354.1	5.1	B3/2500		
BM (30°-60°)	1600.3	6.0	B2/2500		
BH (60°-80°)	1133.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	106.7	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°	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7
2.5°	3787.2	3771.6	3790.3	3771.6	3855.5	3905.2	3920.7	3942.5	4020.2	4094.7
5°	3628.7	3560.4	3634.9	3659.8	3666.0	3749.9	3836.9	3852.4	3892.8	4013.9
7.5°	3364.6	3442.3	3414.3	3488.9	3566.6	3650.5	3793.4	3753.0	3902.1	4017.1
10°	3308.7	3314.9	3346.0	3374.0	3442.3	3551.0	3749.9	3725.0	3877.2	4122.7
12.5°	3364.6	3364.6	3355.3	3333.6	3411.2	3516.9	3675.3	3687.7	3927.0	4153.7
15°	3560.4	3597.6	3498.2	3513.8	3482.7	3516.9	3656.7	3684.6	3945.6	4178.6
17.5°	4038.8	4026.4	3908.3	3743.7	3607.0	3585.2	3681.5	3712.6	3927.0	4250.1
20°	4504.8	4480.0	4274.9	4104.0	3833.8	3706.4	3721.9	3725.0	3958.0	4296.7
22.5°	5023.6	5088.9	4865.2	4517.2	4181.7	3864.8	3802.7	3852.4	4029.5	4321.5
25°	5837.6	5697.8	5505.2	5048.5	4507.9	4110.3	3936.3	3961.1	4097.8	4383.7
27.5°	6424.8	6368.9	6067.5	5697.8	4964.6	4302.9	4007.7	4054.3	4222.1	4380.5
30°	6990.2	6990.2	6806.9	6253.9	5446.2	4626.0	4160.0	4138.2	4163.1	4374.3
32.5°	7652.0	7561.9	7297.8	6931.2	6052.0	4921.1	4281.1	4287.3	4287.3	4489.3
35°	7999.9	8145.9	7968.9	7372.4	6514.9	5412.0	4573.2	4526.6	4492.4	4616.7
37.5°	8509.4	8596.4	8410.0	8059.0	7089.6	5809.7	4831.0	4793.7	4594.9	4716.1
40°	8817.0	8801.5	8795.3	8633.7	7850.8	6278.8	5210.1	5113.7	4846.6	5067.1
42.5°	8991.0	8959.9	9342.1	9242.6	8568.5	6968.5	5685.4	5632.6	5337.4	5691.6
45°	9186.7	9416.6	9730.4	10010.0	9404.2	7937.8	6490.0	6415.5	6151.4	6601.9
47.5°	9357.6	9640.3	10041.1	10339.3	10159.1	8991.0	7484.2	7502.8	7328.9	7791.8
50°	9643.4	9671.4	10215.1	10817.8	10957.6	9963.4	8820.1	8789.0	8711.4	9360.7
52.5°	9556.4	9640.3	10326.9	11097.4	11327.3	10991.7	10255.4	10348.6	10246.1	11063.2
55°	8139.7	8391.4	10258.5	11392.5	12203.4	12153.7	12100.9	12038.7	12032.5	12977.0
57.5°	7496.6	7701.7	9037.6	11718.7	13141.6	13508.2	13850.0	13918.3	13915.2	15055.4
60°	7074.1	7285.4	8543.6	11541.6	13940.1	15282.2	15937.7	15947.0	15928.4	17276.7
62.5°	6247.7	6452.8	7689.3	10572.3	14160.7	16919.5	18379.6	18500.8	17646.4	19190.5
65°	5253.5	5421.3	6511.8	9090.4	13573.5	17960.2	20215.7	20072.8	19094.2	20284.1
67°	4296.7	4408.5	5471.0	7804.2	12038.7	17460.0	20747.0	20865.1	19762.2	20330.7
67.5°	4023.3	4125.8	5129.3	7366.1	11454.7	17081.0	20765.6	20747.0	19774.6	20340.0
70°	2793.0	2836.5	3495.1	5067.1	8438.0	14430.9	19249.5	19293.0	18945.1	19237.1
72.5°	1851.6	1916.9	2336.3	3193.8	4973.9	10500.9	16090.0	16556.0	16335.4	15773.1
75°	1193.0	1230.3	1528.5	1901.3	2448.1	5980.5	11886.5	12197.2	11690.8	9755.3
77.5°	668.0	708.3	922.7	1155.7	1193.0	2488.5	6676.4	7061.7	5983.6	4144.4
80°	416.3	469.1	695.9	686.6	568.5	913.4	2752.6	2948.3	2392.2	1426.0
82.5°	313.8	354.2	537.5	481.5	320.0	407.0	1031.4	1106.0	876.1	549.9
85°	214.4	270.3	388.3	298.2	167.8	195.7	410.1	441.2	400.8	267.2
87.5°	77.7	115.0	201.9	149.1	74.6	59.0	133.6	149.1	142.9	121.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574735

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4122.7	0°	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7	4122.7
4160.0	2.5°	4219.0	4262.5	4284.2	4411.6	4464.4	4455.1	4467.5	4486.2	4504.8	4529.7
4212.8	5°	4253.2	4386.8	4458.2	4607.3	4706.8	4663.3	4719.2	4703.6	4681.9	4678.8
4309.1	7.5°	4365.0	4535.9	4750.2	4790.6	4834.1	4725.4	4632.2	4504.8	4473.7	4365.0
4389.9	10°	4563.8	4703.6	4964.6	4980.1	4787.5	4507.9	4299.8	4035.7	4032.6	3874.1
4514.1	12.5°	4753.4	4911.8	5123.1	5033.0	4573.2	4191.0	3852.4	3563.5	3442.3	3361.5
4588.7	15°	4871.4	5132.4	5244.2	4855.9	4197.2	3681.5	3243.5	2932.8	2808.5	2749.5
4681.9	17.5°	4980.1	5343.6	5293.9	4545.2	3734.3	3156.5	2634.5	2364.3	2330.1	2286.6
4831.0	20°	5129.3	5421.3	5116.8	4141.3	3209.3	2479.2	2146.8	2016.3	2047.4	2066.0
4846.6	22.5°	5269.1	5461.7	4893.2	3700.2	2535.1	1963.5	1798.8	1826.8	1873.4	1935.5
4883.8	25°	5331.2	5526.9	4591.8	3091.2	1929.3	1652.8	1615.5	1662.1	1739.8	1742.9
4936.7	27.5°	5371.6	5480.3	4228.3	2497.8	1525.4	1444.6	1500.6	1534.7	1544.1	1581.3
5048.5	30°	5443.1	5384.0	3768.5	1786.4	1280.0	1283.1	1354.6	1354.6	1354.6	1382.5
5160.3	32.5°	5567.3	5318.8	3231.0	1304.8	1102.9	1202.3	1183.7	1177.5	1165.0	1130.9
5303.3	35°	5645.0	5141.7	2550.7	966.2	991.1	1102.9	1096.7	1000.4	838.8	758.1
5666.7	37.5°	5806.6	5051.6	1876.5	745.6	925.8	1053.2	1019.0	786.0	608.9	531.3
6117.2	40°	6154.5	4992.6	1298.6	652.4	882.3	1028.3	910.3	671.1	466.0	329.3
6813.1	42.5°	6580.1	4995.7	882.3	615.1	885.4	1081.2	876.1	574.8	329.3	264.1
7742.1	45°	7151.8	4949.1	605.8	615.1	941.4	1168.1	897.9	521.9	320.0	335.5
8907.1	47.5°	7766.9	4989.5	450.5	559.2	950.7	1171.3	820.2	512.6	307.6	388.3
10174.7	50°	8484.6	5029.9	372.8	515.7	953.8	1134.0	754.9	500.2	320.0	410.1
11628.6	52.5°	9224.0	5157.2	316.9	487.8	991.1	1118.4	754.9	518.8	320.0	357.3
13480.3	55°	10326.9	5483.4	456.7	608.9	1127.8	1221.0	928.9	727.0	447.4	459.8
15254.2	57.5°	11544.8	5819.0	509.5	640.0	1158.8	1099.8	1000.4	801.5	472.2	475.3
16633.6	60°	12346.3	5831.4	506.4	624.5	1084.3	950.7	978.6	845.0	481.5	407.0
17488.0	62.5°	12666.3	5452.4	528.2	624.5	1009.7	888.5	1003.5	910.3	497.1	509.5
17730.3	65°	12302.8	4669.5	509.5	559.2	888.5	795.3	1009.7	922.7	543.7	512.6
17295.4	67°	11734.3	4023.3	518.8	531.3	826.4	754.9	1062.5	969.3	630.7	615.1
17068.6	67.5°	11572.7	3852.4	515.7	515.7	804.7	742.5	1074.9	969.3	643.1	636.9
15064.7	70°	10199.5	3122.3	528.2	509.5	711.4	705.2	1143.3	1022.1	739.4	745.6
11066.3	72.5°	7763.8	2367.4	525.0	509.5	618.2	674.2	1152.6	1056.3	804.7	745.6
6198.0	75°	4411.6	1416.7	462.9	444.3	487.8	587.2	1078.0	1006.6	782.9	668.0
2476.1	77.5°	1823.7	730.1	425.6	400.8	403.9	478.4	897.9	938.2	745.6	568.5
826.4	80°	680.4	438.1	341.7	320.0	310.7	351.1	640.0	748.7	636.9	466.0
363.5	82.5°	354.2	273.4	233.0	233.0	211.3	223.7	344.9	497.1	481.5	320.0
146.0	85°	180.2	155.3	133.6	130.5	118.1	105.6	174.0	295.1	276.5	177.1
65.2	87.5°	96.3	87.0	55.9	52.8	43.5	28.0	31.1	59.0	96.3	77.7
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>
4122.7
4554.5
4706.8
4402.3
3867.9
3342.9
2737.1
2308.3
2044.3
1901.3
1774.0
1615.5
1413.6
1112.2
795.3
528.2
320.0
257.9
341.7
431.8
475.3
366.6
484.7
459.8
419.4
515.7
503.3
605.8
624.5
689.7
661.7
596.5
537.5
425.6
251.6
146.0
55.9
0.0

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