

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: P574730

Luminaire Tested: **EPH-VN-04-735-U-T3R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574730  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-735-U-T3R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

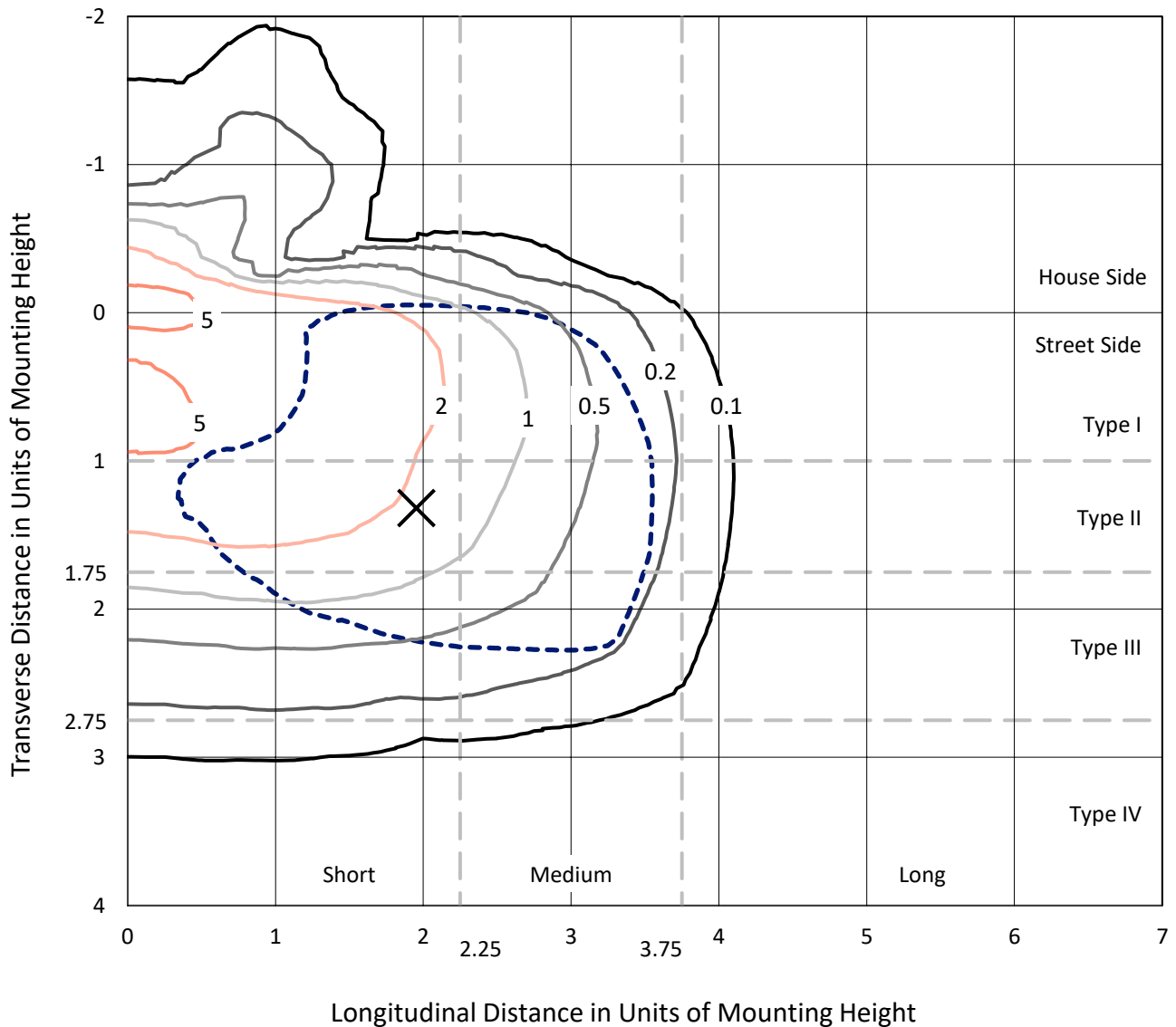
Lumens per Lamp: N/A  
Luminaire Lumens: 33884.8 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

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

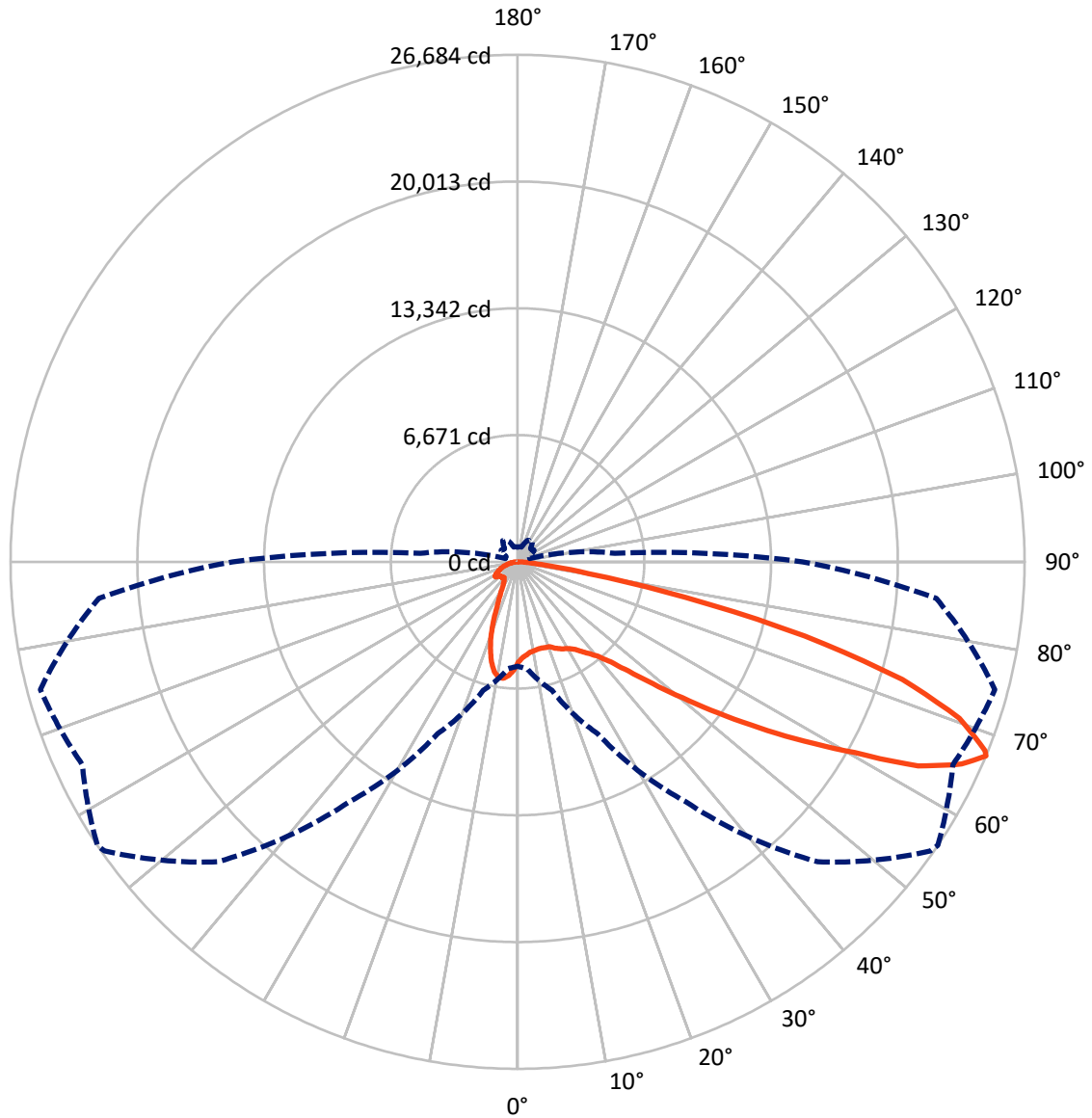
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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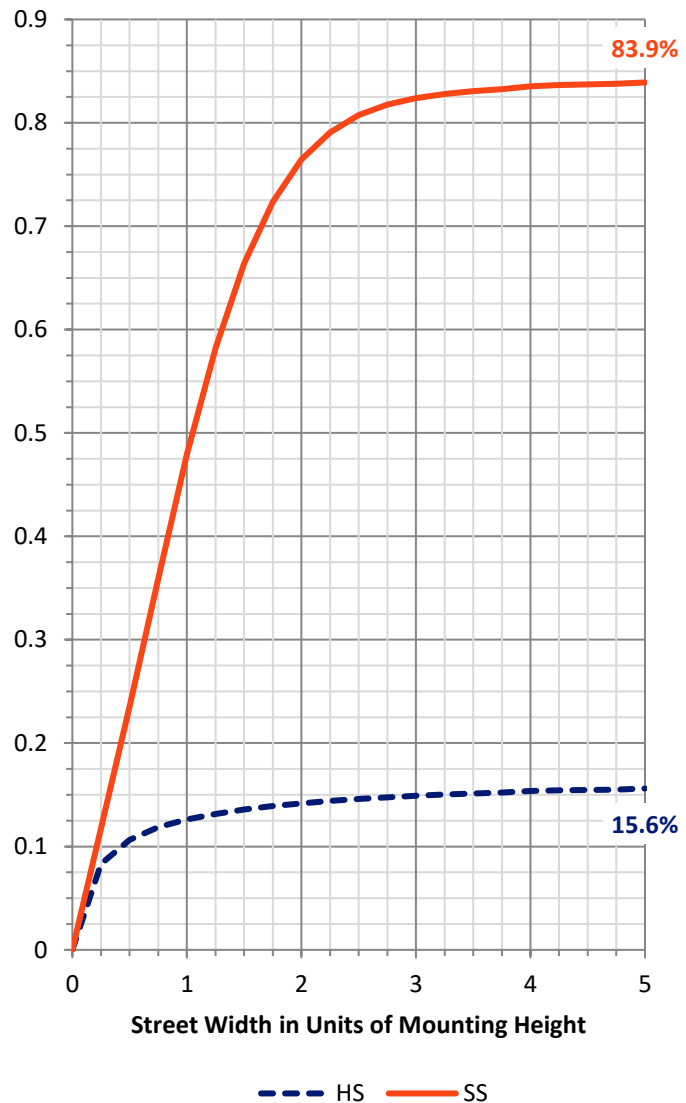
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5364.3	0.0	5364.3
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	28520.5	0.0	28520.5
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	33884.8	0.0	33884.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.9	1.5
10°-20°	1385.7	4.1
20°-30°	2173.2	6.4
30°-40°	3102.2	9.2
40°-50°	4682.2	13.8
50°-60°	7453.2	22.0
60°-70°	9528.3	28.1
70°-80°	4645.7	13.7
80°-90°	406.4	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°	33884.8	100.0
0°-180°	33884.8	100.0

**Coefficient of Utilization**

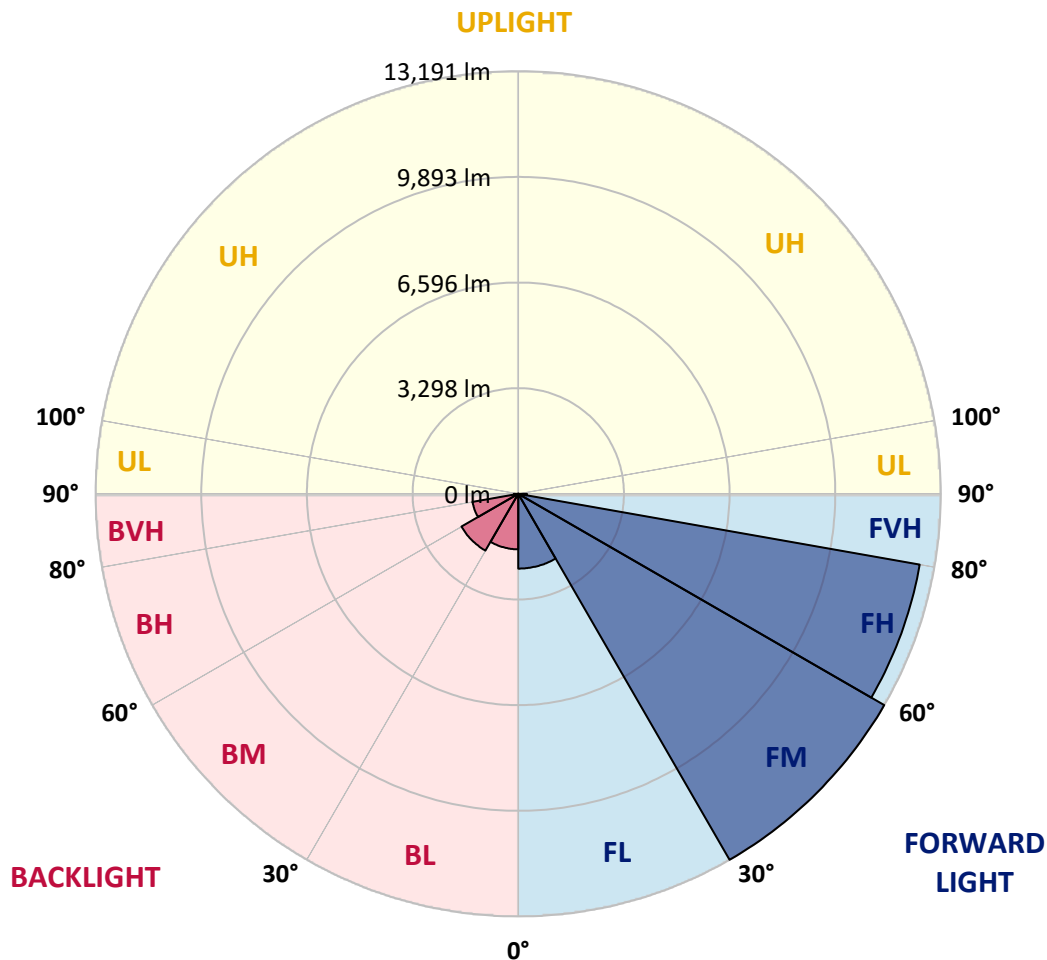


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2335.0	6.9			
FM (30°-60°)	13191.1	38.9			
FH (60°-80°)	12724.5	37.6			G5
FVH (80°-90°)	269.9	0.8			G3/500
BL (0°-30°)	1731.7	5.1	B3/2500		
BM (30°-60°)	2046.5	6.0	B2/2500		
BH (60°-80°)	1449.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	136.5	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-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4
2.5°	4843.3	4823.4	4847.3	4823.4	4930.7	4994.3	5014.1	5041.9	5141.3	5236.6
5°	4640.7	4553.2	4648.6	4680.4	4688.3	4795.6	4906.9	4926.7	4978.4	5133.3
7.5°	4302.9	4402.3	4366.5	4461.9	4561.2	4668.5	4851.2	4799.6	4990.3	5137.3
10°	4231.4	4239.4	4279.1	4314.9	4402.3	4541.3	4795.6	4763.8	4958.5	5272.4
12.5°	4302.9	4302.9	4291.0	4263.2	4362.5	4497.6	4700.3	4716.1	5022.1	5312.1
15°	4553.2	4600.9	4473.8	4493.7	4453.9	4497.6	4676.4	4712.2	5045.9	5343.9
17.5°	5165.1	5149.2	4998.2	4787.7	4612.8	4585.0	4708.2	4747.9	5022.1	5435.3
20°	5761.1	5729.3	5467.1	5248.6	4902.9	4740.0	4759.9	4763.8	5061.8	5494.9
22.5°	6424.6	6508.0	6222.0	5777.0	5347.9	4942.6	4863.2	4926.7	5153.2	5526.7
25°	7465.6	7286.8	7040.4	6456.4	5765.1	5256.5	5034.0	5065.8	5240.6	5606.1
27.5°	8216.5	8145.0	7759.6	7286.8	6349.1	5502.8	5125.4	5185.0	5399.5	5602.2
30°	8939.6	8939.6	8705.2	7998.0	6965.0	5916.0	5320.1	5292.3	5324.0	5594.2
32.5°	9785.9	9670.7	9333.0	8864.1	7739.7	6293.5	5475.0	5483.0	5483.0	5741.2
35°	10230.9	10417.6	10191.2	9428.3	8331.7	6921.3	5848.5	5788.9	5745.2	5904.1
37.5°	10882.5	10993.7	10755.4	10306.4	9066.8	7429.8	6178.3	6130.6	5876.3	6031.3
40°	11275.8	11256.0	11248.0	11041.4	10040.2	8029.8	6663.0	6539.8	6198.1	6480.2
42.5°	11498.3	11458.6	11947.3	11820.2	10958.0	8911.8	7270.9	7203.3	6825.9	7278.8
45°	11748.7	12042.7	12444.0	12801.5	12026.8	10151.4	8299.9	8204.6	7866.9	8443.0
47.5°	11967.2	12328.7	12841.3	13222.7	12992.3	11498.3	9571.4	9595.2	9372.7	9964.7
50°	12332.7	12368.5	13063.8	13834.6	14013.4	12741.9	11279.8	11240.1	11140.8	11971.1
52.5°	12221.5	12328.7	13206.8	14192.1	14486.2	14057.1	13115.4	13234.6	13103.5	14148.4
55°	10409.7	10731.5	13119.4	14569.6	15606.6	15543.0	15475.5	15396.0	15388.1	16595.9
57.5°	9587.2	9849.5	11557.9	14986.8	16806.5	17275.3	17712.4	17799.8	17795.8	19254.0
60°	9046.9	9317.1	10926.2	14760.3	17827.6	19544.0	20382.3	20394.3	20370.4	22094.8
62.5°	7990.0	8252.3	9833.6	13520.7	18109.7	21637.9	23505.2	23660.2	22567.6	24542.2
65°	6718.6	6933.2	8327.8	11625.5	17358.8	22968.9	25853.4	25670.6	24419.1	25940.8
67°	5494.9	5637.9	6996.7	9980.6	15396.0	22329.2	26532.8	26683.8	25273.3	26000.4
67.5°	5145.2	5276.4	6559.7	9420.4	14649.1	21844.5	26556.6	26532.8	25289.2	26012.3
70°	3571.9	3627.5	4469.8	6480.2	10791.1	18455.4	24617.7	24673.4	24228.4	24601.8
72.5°	2368.0	2451.4	2987.8	4084.4	6361.0	13429.3	20577.0	21173.0	20890.9	20171.8
75°	1525.7	1573.4	1954.8	2431.6	3130.9	7648.3	15201.3	15598.6	14951.0	12475.7
77.5°	854.2	905.9	1180.0	1478.0	1525.7	3182.5	8538.3	9031.0	7652.3	5300.2
80°	532.4	599.9	890.0	878.1	727.1	1168.1	3520.2	3770.5	3059.3	1823.7
82.5°	401.3	452.9	687.4	615.8	409.2	520.5	1319.1	1414.4	1120.4	703.3
85°	274.1	345.7	496.6	381.4	214.6	250.3	524.5	564.2	512.5	341.7
87.5°	99.3	147.0	258.3	190.7	95.4	75.5	170.8	190.7	182.8	155.0
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°
5272.4	0°	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4	5272.4
5320.1	2.5°	5395.6	5451.2	5479.0	5641.9	5709.4	5697.5	5713.4	5737.3	5761.1	5792.9
5387.6	5°	5439.3	5610.1	5701.5	5892.2	6019.3	5963.7	6035.2	6015.4	5987.6	5983.6
5510.8	7.5°	5582.3	5800.8	6075.0	6126.6	6182.2	6043.2	5924.0	5761.1	5721.4	5582.3
5614.1	10°	5836.6	6015.4	6349.1	6369.0	6122.6	5765.1	5498.9	5161.1	5157.2	4954.5
5773.0	12.5°	6078.9	6281.6	6551.8	6436.5	5848.5	5359.8	4926.7	4557.2	4402.3	4299.0
5868.4	15°	6229.9	6563.7	6706.7	6210.1	5367.7	4708.2	4148.0	3750.7	3591.7	3516.3
5987.6	17.5°	6369.0	6833.8	6770.3	5812.7	4775.7	4036.7	3369.2	3023.6	2979.9	2924.2
6178.3	20°	6559.7	6933.2	6543.8	5296.2	4104.3	3170.6	2745.5	2578.6	2618.3	2642.2
6198.1	22.5°	6738.5	6984.8	6257.7	4732.0	3242.1	2511.0	2300.5	2336.2	2395.8	2475.3
6245.8	25°	6818.0	7068.3	5872.3	3953.3	2467.3	2113.7	2066.0	2125.6	2225.0	2228.9
6313.4	27.5°	6869.6	7008.7	5407.5	3194.4	1950.8	1847.5	1919.0	1962.7	1974.7	2022.3
6456.4	30°	6961.0	6885.5	4819.4	2284.6	1636.9	1640.9	1732.3	1732.3	1732.3	1768.1
6599.4	32.5°	7119.9	6802.1	4132.1	1668.7	1410.5	1537.6	1513.8	1505.8	1489.9	1446.2
6782.2	35°	7219.2	6575.6	3262.0	1235.7	1267.4	1410.5	1402.5	1279.4	1072.8	969.5
7247.1	37.5°	7425.8	6460.4	2399.8	953.6	1184.0	1346.9	1303.2	1005.2	778.7	679.4
7823.2	40°	7870.8	6384.9	1660.8	834.4	1128.4	1315.1	1164.1	858.2	596.0	421.2
8713.2	42.5°	8415.2	6388.9	1128.4	786.7	1132.4	1382.7	1120.4	735.0	421.2	337.7
9901.1	45°	9146.2	6329.3	774.8	786.7	1203.9	1493.9	1148.2	667.5	409.2	429.1
11391.1	47.5°	9932.9	6380.9	576.1	715.2	1215.8	1497.9	1048.9	655.6	393.3	496.6
13012.1	50°	10850.7	6432.6	476.8	659.5	1219.8	1450.2	965.5	639.7	409.2	524.5
14871.6	52.5°	11796.3	6595.5	405.3	623.8	1267.4	1430.3	965.5	663.5	409.2	456.9
17239.6	55°	13206.8	7012.6	584.1	778.7	1442.3	1561.5	1188.0	929.7	572.1	588.0
19508.2	57.5°	14764.3	7441.7	651.6	818.5	1482.0	1406.5	1279.4	1025.1	603.9	607.9
21272.3	60°	15789.4	7457.6	647.6	798.6	1386.6	1215.8	1251.5	1080.7	615.8	520.5
22364.9	62.5°	16198.6	6972.9	675.4	798.6	1291.3	1136.3	1283.3	1164.1	635.7	651.6
22674.9	65°	15733.7	5971.7	651.6	715.2	1136.3	1017.1	1291.3	1180.0	695.3	655.6
22118.6	67°	15006.6	5145.2	663.5	679.4	1056.9	965.5	1358.8	1239.6	806.6	786.7
21828.6	67.5°	14800.0	4926.7	659.5	659.5	1029.0	949.6	1374.7	1239.6	822.4	814.5
19265.9	70°	13043.9	3993.0	675.4	651.6	909.9	901.9	1462.1	1307.2	945.6	953.6
14152.4	72.5°	9928.9	3027.6	671.5	651.6	790.7	862.2	1474.0	1350.9	1029.0	953.6
7926.5	75°	5641.9	1811.8	592.0	568.2	623.8	750.9	1378.7	1287.3	1001.2	854.2
3166.6	77.5°	2332.2	933.7	544.3	512.5	516.5	611.9	1148.2	1199.9	953.6	727.1
1056.9	80°	870.1	560.2	437.0	409.2	397.3	449.0	818.5	957.5	814.5	596.0
464.9	82.5°	452.9	349.6	298.0	298.0	270.2	286.1	441.0	635.7	615.8	409.2
186.7	85°	230.4	198.7	170.8	166.9	151.0	135.1	222.5	377.5	353.6	226.5
83.4	87.5°	123.2	111.2	71.5	67.5	55.6	35.8	39.7	75.5	123.2	99.3
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>
5272.4
5824.7
6019.3
5630.0
4946.6
4275.1
3500.4
2952.1
2614.3
2431.6
2268.7
2066.0
1807.8
1422.4
1017.1
675.4
409.2
329.8
437.0
552.3
607.9
468.8
619.8
588.0
536.4
659.5
643.7
774.8
798.6
882.0
846.3
762.8
687.4
544.3
321.8
186.7
71.5
0.0

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