

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: P574736

Luminaire Tested: **EPH-VN-04-740-U-T3R**

Issue Date: 10/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P574736  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-740-U-T3R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

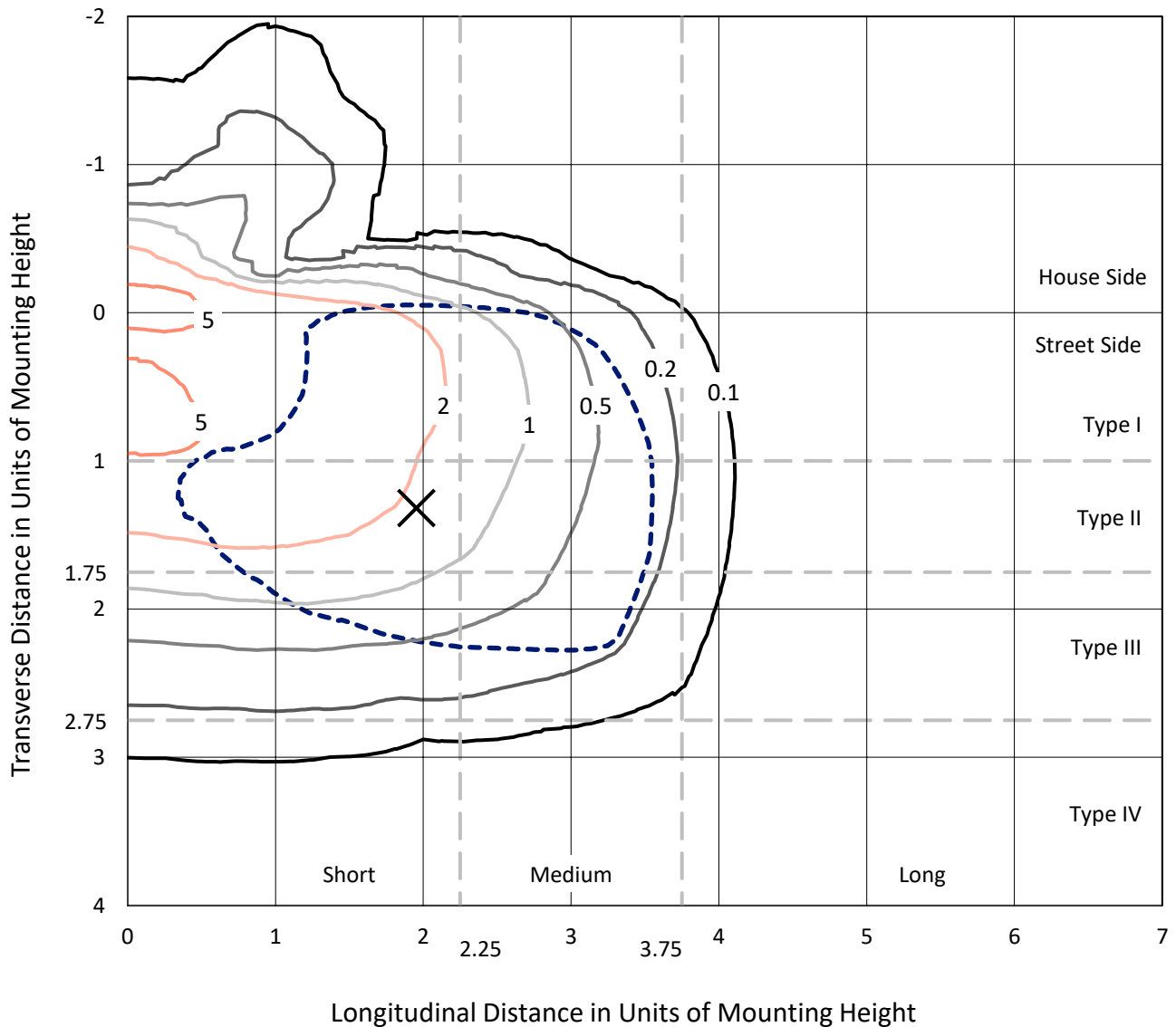
Lumens per Lamp: N/A  
Luminaire Lumens: 34355.5 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

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

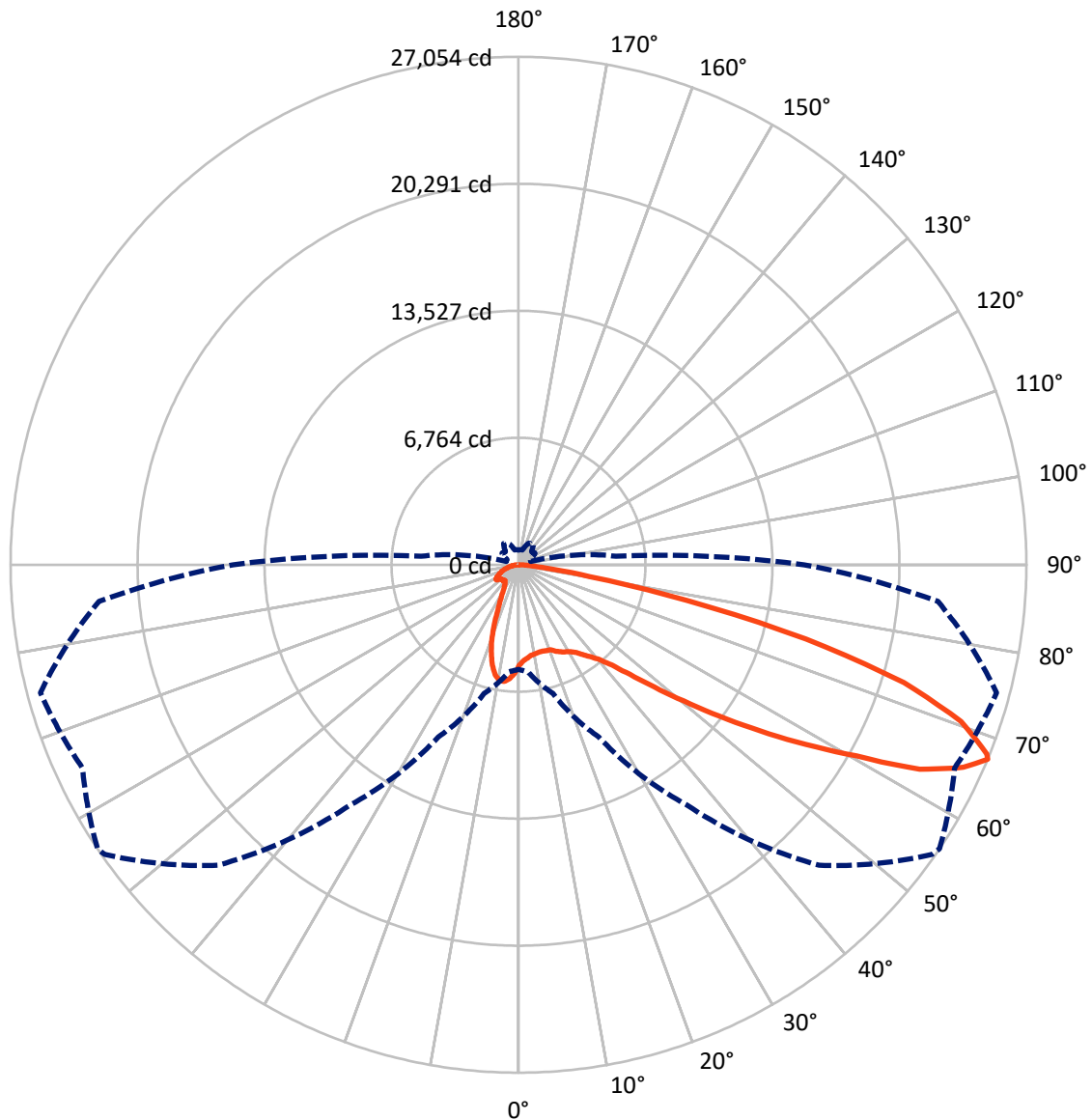
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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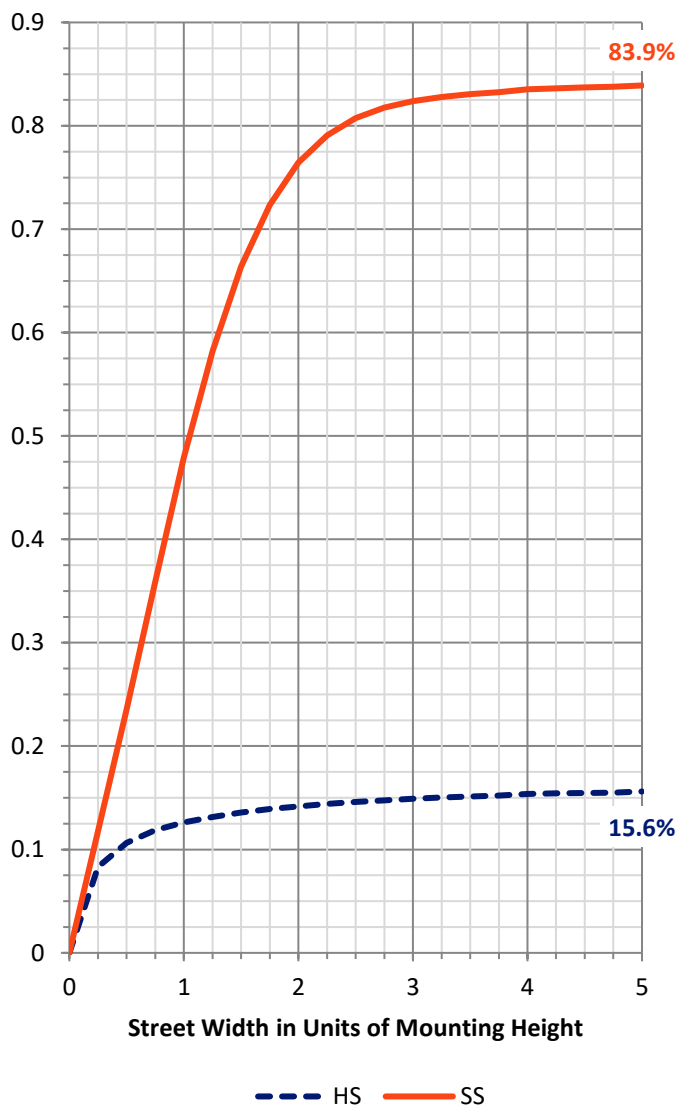
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5438.8	0.0	5438.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	28916.7	0.0	28916.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	34355.5	0.0	34355.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.0	1.5
10°-20°	1404.9	4.1
20°-30°	2203.4	6.4
30°-40°	3145.3	9.2
40°-50°	4747.2	13.8
50°-60°	7556.7	22.0
60°-70°	9660.7	28.1
70°-80°	4710.2	13.7
80°-90°	412.0	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°	34355.5	100.0
0°-180°	34355.5	100.0

**Coefficient of Utilization**

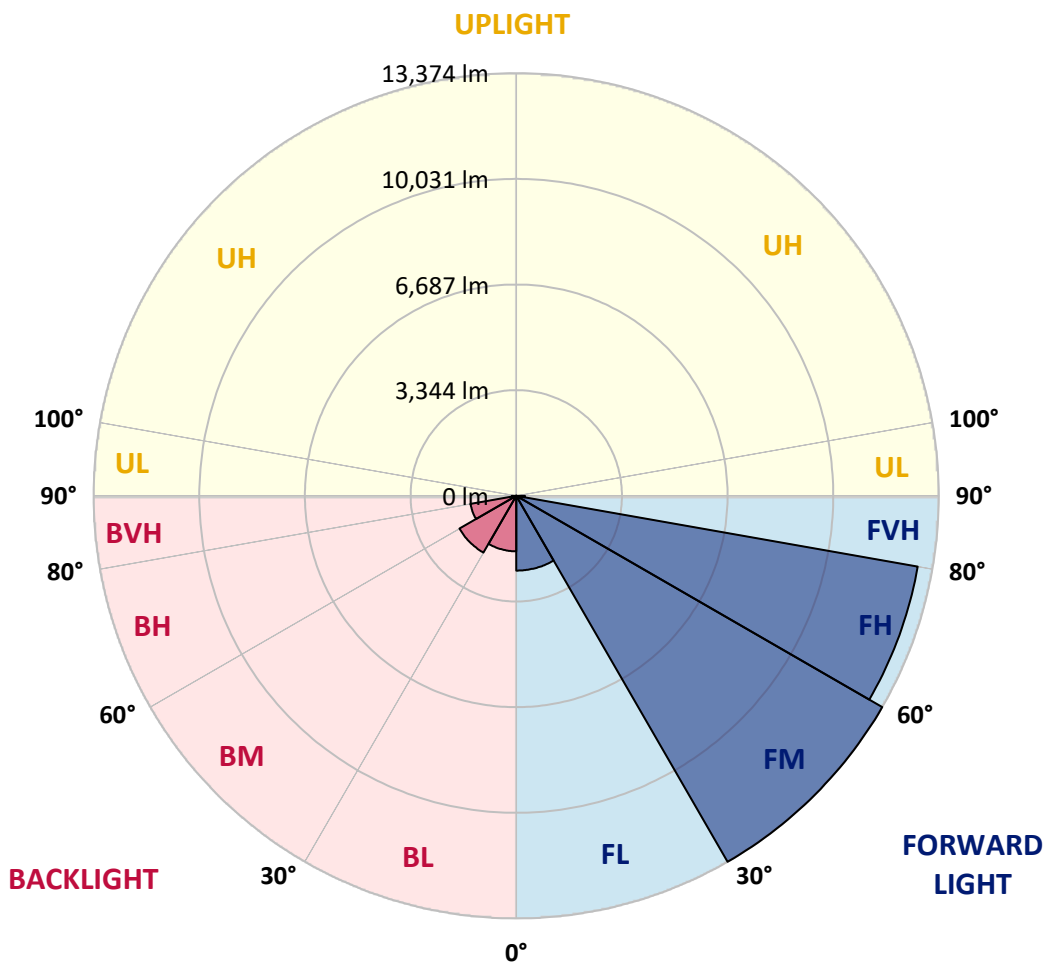


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2367.5	6.9			
FM (30°-60°)	13374.3	38.9			
FH (60°-80°)	12901.3	37.6			G5
FVH (80°-90°)	273.6	0.8			G3/500
BL (0°-30°)	1755.8	5.1	B3/2500		
BM (30°-60°)	2075.0	6.0	B2/2500		
BH (60°-80°)	1469.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	138.4	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°	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6
2.5°	4910.6	4890.4	4914.6	4890.4	4999.2	5063.6	5083.8	5112.0	5212.7	5309.4
5°	4705.1	4616.5	4713.2	4745.4	4753.5	4862.2	4975.0	4995.2	5047.5	5204.6
7.5°	4362.7	4463.4	4427.2	4523.8	4624.6	4733.3	4918.6	4866.3	5059.6	5208.7
10°	4290.2	4298.3	4338.5	4374.8	4463.4	4604.4	4862.2	4830.0	5027.4	5345.6
12.5°	4362.7	4362.7	4350.6	4322.4	4423.1	4560.1	4765.5	4781.7	5091.8	5385.9
15°	4616.5	4664.8	4535.9	4556.1	4515.8	4560.1	4741.4	4777.6	5116.0	5418.1
17.5°	5236.9	5220.7	5067.7	4854.2	4676.9	4648.7	4773.6	4813.9	5091.8	5510.8
20°	5841.1	5808.9	5543.0	5321.5	4971.0	4805.8	4826.0	4830.0	5132.1	5571.2
22.5°	6513.8	6598.4	6308.4	5857.2	5422.2	5011.3	4930.7	4995.2	5224.8	5603.4
25°	7569.3	7388.0	7138.2	6546.1	5845.1	5329.5	5103.9	5136.2	5313.4	5684.0
27.5°	8330.6	8258.1	7867.4	7388.0	6437.3	5579.3	5196.6	5257.0	5474.5	5680.0
30°	9063.8	9063.8	8826.1	8109.1	7061.7	5998.2	5394.0	5365.8	5398.0	5671.9
32.5°	9921.8	9805.0	9462.6	8987.3	7847.2	6380.9	5551.1	5559.1	5559.1	5821.0
35°	10373.0	10562.3	10332.7	9559.3	8447.5	7017.4	5929.7	5869.3	5825.0	5986.1
37.5°	11033.7	11146.5	10904.8	10449.6	9192.7	7533.0	6264.1	6215.8	5957.9	6115.0
40°	11432.5	11412.3	11404.3	11194.8	10179.7	8141.3	6755.5	6630.7	6284.2	6570.2
42.5°	11658.1	11617.8	12113.3	11984.4	11110.2	9035.6	7371.9	7303.4	6920.7	7379.9
45°	11911.8	12209.9	12616.8	12979.4	12193.8	10292.4	8415.2	8318.6	7976.1	8560.3
47.5°	12133.4	12500.0	13019.6	13406.4	13172.7	11658.1	9704.3	9728.5	9502.9	10103.1
50°	12504.0	12540.3	13245.2	14026.7	14208.0	12918.9	11436.5	11396.2	11295.5	12137.4
52.5°	12391.2	12500.0	13390.2	14389.3	14687.4	14252.3	13297.6	13418.4	13285.5	14345.0
55°	10554.3	10880.6	13301.6	14772.0	15823.4	15758.9	15690.4	15609.9	15601.8	16826.4
57.5°	9720.4	9986.3	11718.5	15195.0	17039.9	17515.3	17958.4	18047.0	18043.0	19521.4
60°	9172.6	9446.5	11078.0	14965.3	18075.2	19815.5	20665.5	20677.5	20653.4	22401.7
62.5°	8101.0	8366.9	9970.2	13708.5	18361.2	21938.4	23831.7	23988.8	22881.1	24883.1
65°	6811.9	7029.5	8443.4	11787.0	17599.9	23287.9	26212.5	26027.2	24758.3	26301.1
67°	5571.2	5716.2	7093.9	10119.2	15609.9	22639.4	26901.3	27054.4	25624.4	26361.5
67.5°	5216.7	5349.7	6650.8	9551.2	14852.5	22147.9	26925.5	26901.3	25640.5	26373.6
70°	3621.5	3677.9	4531.9	6570.2	10941.0	18711.7	24959.7	25016.1	24564.9	24943.6
72.5°	2400.9	2485.5	3029.3	4141.1	6449.4	13615.8	20862.8	21467.1	21181.1	20452.0
75°	1546.9	1595.2	1982.0	2465.4	3174.3	7754.6	15412.5	15815.3	15158.7	12649.0
77.5°	866.1	918.5	1196.4	1498.5	1546.9	3226.7	8656.9	9156.4	7758.6	5373.8
80°	539.8	608.3	902.4	890.3	737.2	1184.3	3569.1	3822.9	3101.8	1849.0
82.5°	406.9	459.2	696.9	624.4	414.9	527.7	1337.4	1434.1	1136.0	713.0
85°	278.0	350.5	503.5	386.7	217.5	253.8	531.7	572.0	519.7	346.4
87.5°	100.7	149.0	261.8	193.4	96.7	76.5	173.2	193.4	185.3	157.1
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°
5345.6	0°	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6	5345.6
5394.0	2.5°	5470.5	5526.9	5555.1	5720.3	5788.7	5776.7	5792.8	5816.9	5841.1	5873.3
5462.4	5°	5514.8	5688.0	5780.7	5974.0	6103.0	6046.6	6119.1	6098.9	6070.7	6066.7
5587.3	7.5°	5659.8	5881.4	6159.4	6211.7	6268.1	6127.1	6006.3	5841.1	5800.8	5659.8
5692.1	10°	5917.7	6098.9	6437.3	6457.5	6207.7	5845.1	5575.2	5232.8	5228.8	5023.4
5853.2	12.5°	6163.4	6368.8	6642.8	6525.9	5929.7	5434.2	4995.2	4620.5	4463.4	4358.7
5949.9	15°	6316.5	6654.8	6799.9	6296.3	5442.3	4773.6	4205.6	3802.8	3641.6	3565.1
6070.7	17.5°	6457.5	6928.8	6864.3	5893.5	4842.1	4092.8	3416.0	3065.6	3021.3	2964.9
6264.1	20°	6650.8	7029.5	6634.7	5369.8	4161.3	3214.6	2783.6	2614.4	2654.7	2678.9
6284.2	22.5°	6832.1	7081.8	6344.7	4797.8	3287.1	2545.9	2332.4	2368.7	2429.1	2509.7
6332.6	25°	6912.7	7166.4	5953.9	4008.2	2501.6	2143.1	2094.7	2155.2	2255.9	2259.9
6401.1	27.5°	6965.0	7106.0	5482.6	3238.8	1977.9	1873.2	1945.7	1990.0	2002.1	2050.4
6546.1	30°	7057.7	6981.1	4886.4	2316.3	1659.7	1663.7	1756.4	1756.4	1756.4	1792.6
6691.1	32.5°	7218.8	6896.5	4189.5	1691.9	1430.1	1559.0	1534.8	1526.7	1510.6	1466.3
6876.4	35°	7319.5	6666.9	3307.3	1252.8	1285.0	1430.1	1422.0	1297.1	1087.7	982.9
7347.7	37.5°	7529.0	6550.1	2433.1	966.8	1200.4	1365.6	1321.3	1019.2	789.6	688.8
7931.8	40°	7980.2	6473.6	1683.9	846.0	1144.1	1333.4	1180.3	870.1	604.3	427.0
8834.2	42.5°	8532.1	6477.6	1144.1	797.6	1148.1	1401.9	1136.0	745.2	427.0	342.4
10038.7	45°	9273.3	6417.2	785.5	797.6	1220.6	1514.7	1164.2	676.8	414.9	435.1
11549.3	47.5°	10070.9	6469.5	584.1	725.1	1232.7	1518.7	1063.5	664.7	398.8	503.5
13192.9	50°	11001.4	6521.9	483.4	668.7	1236.7	1470.3	978.9	648.6	414.9	531.7
15078.1	52.5°	11960.2	6687.1	410.9	632.5	1285.0	1450.2	978.9	672.7	414.9	463.3
17479.0	55°	13390.2	7110.0	592.2	789.6	1462.3	1583.1	1204.5	942.6	580.1	596.2
19779.2	57.5°	14969.4	7545.1	660.7	829.8	1502.6	1426.0	1297.1	1039.3	612.3	616.3
21567.8	60°	16008.7	7561.2	656.6	809.7	1405.9	1232.7	1268.9	1095.7	624.4	527.7
22675.6	62.5°	16423.6	7069.8	684.8	809.7	1309.2	1152.1	1301.2	1180.3	644.5	660.7
22989.8	65°	15952.3	6054.6	660.7	725.1	1152.1	1031.3	1309.2	1196.4	705.0	664.7
22425.8	67°	15215.1	5216.7	672.7	688.8	1071.5	978.9	1377.7	1256.8	817.8	797.6
22131.8	67.5°	15005.6	4995.2	668.7	668.7	1043.3	962.8	1393.8	1256.8	833.9	825.8
19533.5	70°	13225.1	4048.5	684.8	660.7	922.5	914.4	1482.4	1325.3	958.7	966.8
14349.0	72.5°	10066.9	3069.6	680.8	660.7	801.6	874.2	1494.5	1369.6	1043.3	966.8
8036.6	75°	5720.3	1836.9	600.2	576.1	632.5	761.4	1397.8	1305.2	1015.1	866.1
3210.6	77.5°	2364.6	946.7	551.9	519.7	523.7	620.4	1164.2	1216.6	966.8	737.2
1071.5	80°	882.2	568.0	443.1	414.9	402.8	455.2	829.8	970.8	825.8	604.3
471.3	82.5°	459.2	354.5	302.1	302.1	273.9	290.0	447.1	644.5	624.4	414.9
189.3	85°	233.6	201.4	173.2	169.2	153.1	137.0	225.6	382.7	358.5	229.6
84.6	87.5°	124.9	112.8	72.5	68.5	56.4	36.3	40.3	76.5	124.9	100.7
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>
5345.6
5905.6
6103.0
5708.2
5015.3
4334.5
3549.0
2993.1
2650.7
2465.4
2300.2
2094.7
1832.9
1442.2
1031.3
684.8
414.9
334.4
443.1
559.9
616.3
475.3
628.4
596.2
543.8
668.7
652.6
785.5
809.7
894.3
858.0
773.4
696.9
551.9
326.3
189.3
72.5
0.0

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