

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: P574893

Luminaire Tested: **EPH-VN-07-735-U-5MQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574893  
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-5MQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

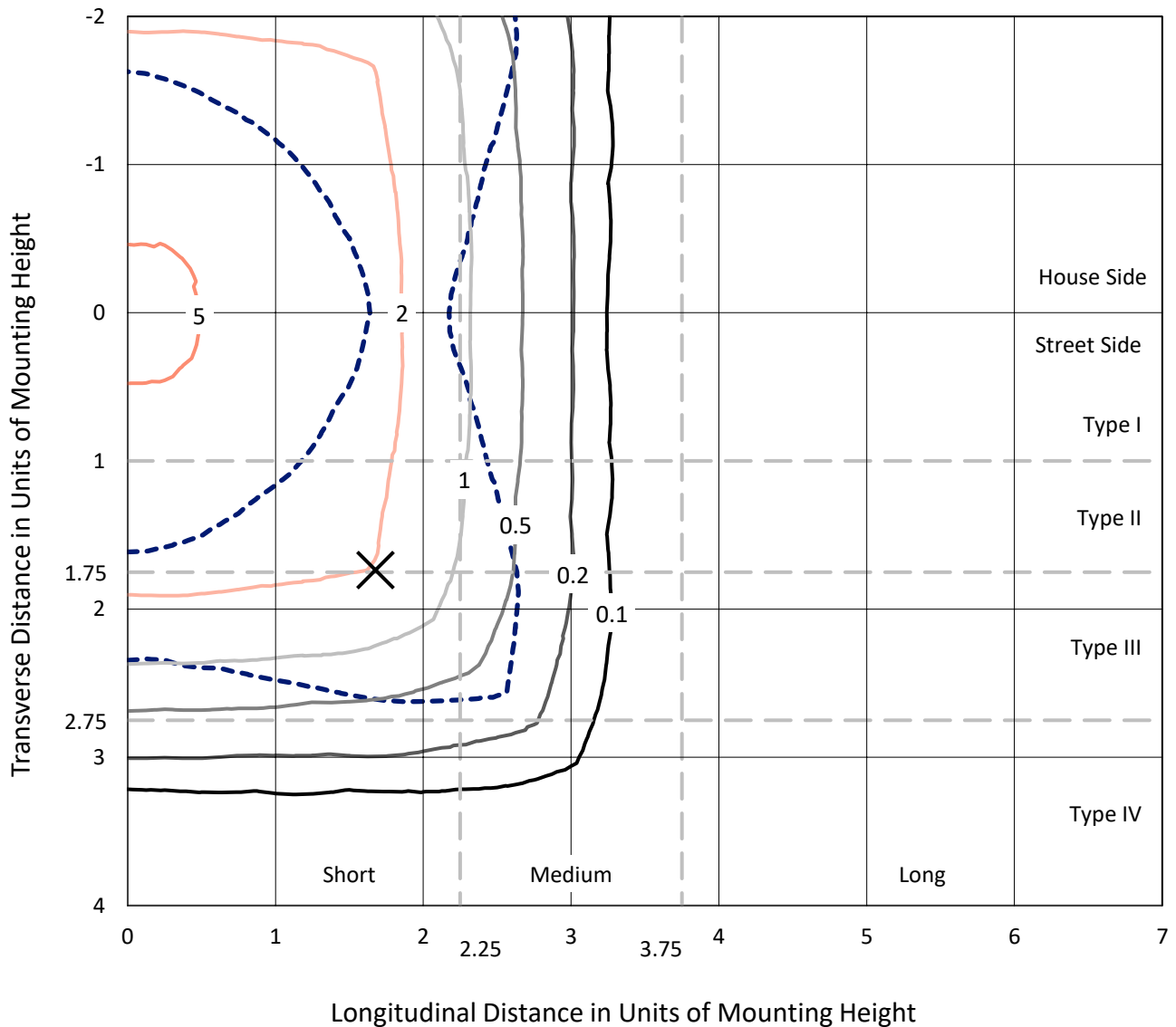
Lumens per Lamp: N/A  
Luminaire Lumens: 56201.9 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

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

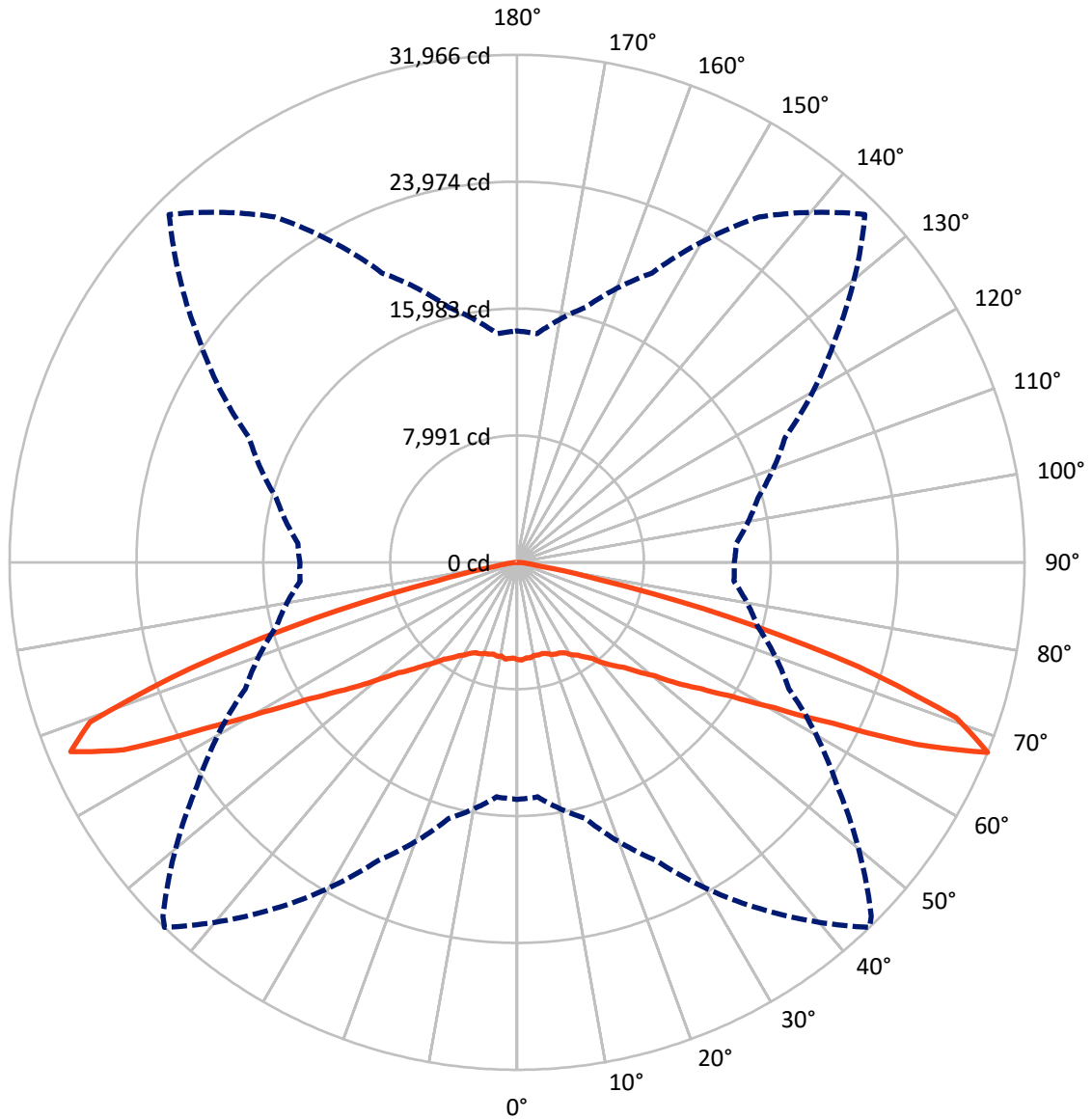
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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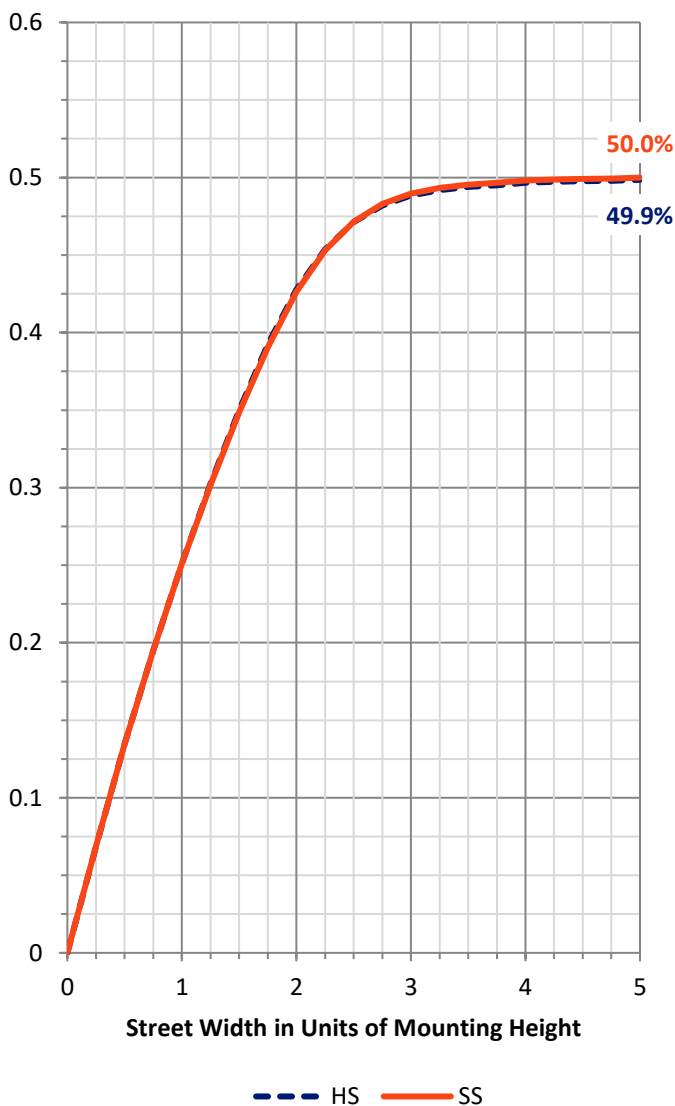
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28029.0	0.0	28029.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	28172.9	0.0	28172.9
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	56201.9	0.0	56201.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.9	1.0
10°-20°	1697.2	3.0
20°-30°	2886.2	5.1
30°-40°	4576.1	8.1
40°-50°	7461.9	13.3
50°-60°	12743.8	22.7
60°-70°	19383.2	34.5
70°-80°	6533.3	11.6
80°-90°	339.2	0.6
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°	56201.9	100.0
0°-180°	56201.9	100.0

**Coefficient of Utilization**



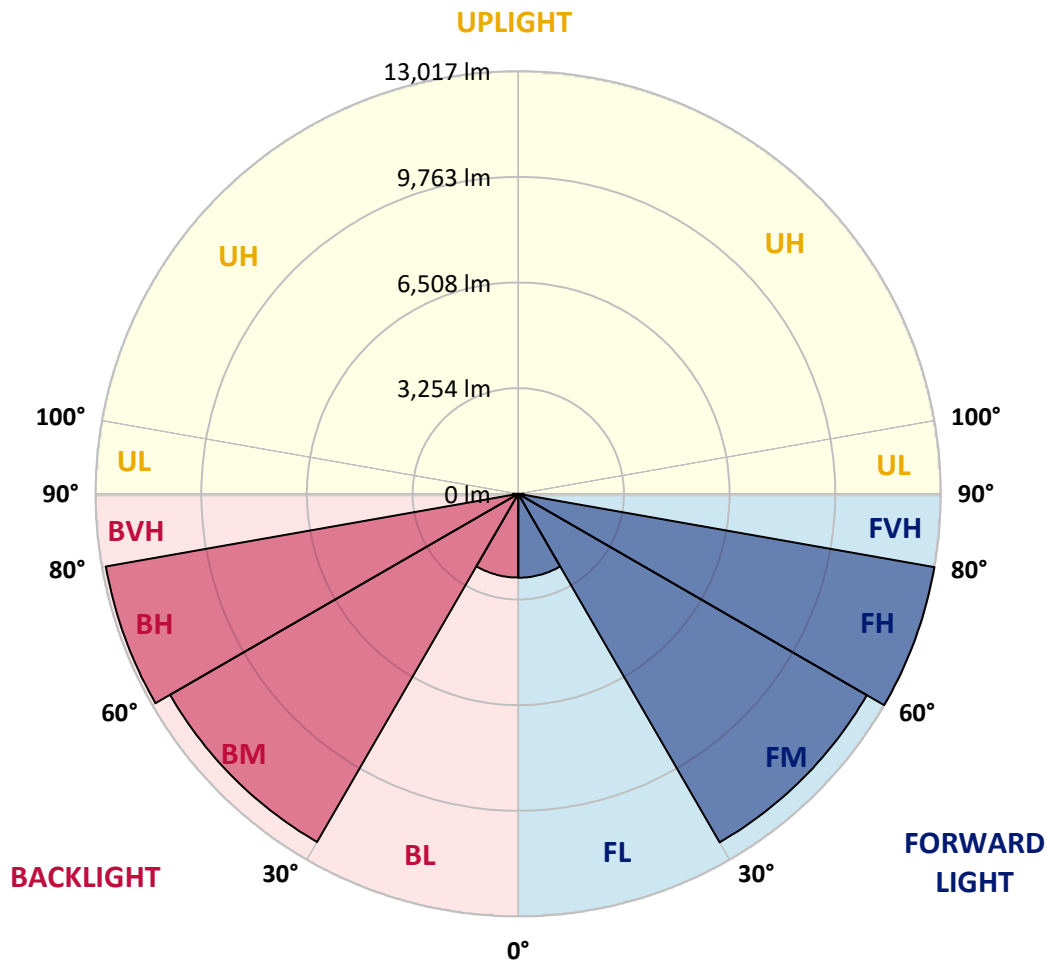
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.8	4.6			
FM (30°-60°)	12397.6	22.1			
FH (60°-80°)	13017.0	23.2			G5
FVH (80°-90°)	173.5	0.3			G2/225
BL (0°-30°)	2579.5	4.6	B4/5000		
BM (30°-60°)	12384.2	22.0	B5		
BH (60°-80°)	12899.6	23.0	B5		G5
BVH (80°-90°)	165.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1
2.5°	5998.0	6068.5	6119.8	6113.4	6132.7	6151.9	6126.3	6164.7	6139.1	6184.0
5°	6113.4	6094.2	6100.6	6062.1	6151.9	6049.3	6049.3	6100.6	6164.7	6087.8
7.5°	6042.9	6030.0	5998.0	6055.7	6074.9	6074.9	6126.3	6030.0	6139.1	6164.7
10°	5965.9	5895.3	5991.5	6049.3	6062.1	5959.5	6004.4	6030.0	5998.0	6030.0
12.5°	5901.7	5940.2	5940.2	5940.2	5921.0	5991.5	6036.5	6030.0	5965.9	6023.6
15°	5895.3	5876.1	5933.8	5985.1	5953.1	5965.9	5985.1	6042.9	5921.0	5946.6
17.5°	5888.9	5914.6	5933.8	5927.4	6036.5	6036.5	6017.2	5978.7	6074.9	6023.6
20°	5914.6	5895.3	5946.6	5965.9	6042.9	6196.8	6139.1	6107.0	6055.7	5991.5
22.5°	5946.6	5933.8	6004.4	6087.8	6235.3	6273.8	6267.4	6228.9	6139.1	6062.1
25°	6062.1	5946.6	6023.6	6184.0	6235.3	6312.3	6363.6	6312.3	6190.4	6209.7
27.5°	6235.3	6216.1	6318.7	6427.8	6382.9	6453.4	6408.5	6447.0	6453.4	6357.2
30°	6440.6	6382.9	6447.0	6658.7	6677.9	6754.9	6677.9	6575.3	6607.4	6524.0
32.5°	6735.7	6716.4	6838.3	6979.4	7005.1	6966.6	6928.1	6985.9	6851.1	6787.0
35°	6928.1	7011.5	7159.1	7268.1	7351.5	7313.0	7332.3	7274.5	7306.6	7171.9
37.5°	7499.1	7467.0	7499.1	7685.1	7704.3	7685.1	7704.3	7768.5	7723.6	7608.1
40°	8037.9	7986.6	8063.6	8275.3	8262.4	8326.6	8198.3	8268.8	8268.8	8050.7
42.5°	8442.1	8615.3	8705.1	8878.3	8942.4	8884.7	8859.0	8871.9	9013.0	8756.4
45°	9276.0	9269.6	9539.0	9635.2	9455.6	9442.8	9391.5	9545.4	9641.6	9494.1
47.5°	10180.5	10225.4	10379.4	10417.8	10526.9	10328.0	10328.0	10347.3	10687.3	10340.9
50°	10995.2	11052.9	11360.8	11662.3	11457.1	11245.4	11328.8	11431.4	11617.4	11290.3
52.5°	11983.1	12297.4	12502.7	12663.1	12810.6	12663.1	12470.6	12586.1	12951.7	12515.5
55°	13407.2	13657.4	13849.8	14144.9	14266.8	14067.9	14048.7	14035.9	14241.1	13779.3
57.5°	14998.1	14895.5	15203.4	15658.8	16101.5	15909.0	15851.3	15864.1	15915.4	15261.1
60°	16973.9	17089.4	17455.0	17852.8	18321.0	18590.5	18212.0	17993.9	18038.8	17147.1
62.5°	18102.9	18359.5	19187.1	20553.4	21496.4	22336.8	22394.5	20976.8	20027.4	18295.4
65°	17557.7	17519.2	19078.0	21605.5	25178.6	27622.7	27257.0	23818.6	20502.1	17750.1
67.5°	14934.0	14831.3	16717.3	20726.6	26628.4	31965.6	31548.6	24620.5	18898.4	15703.8
70°	9622.4	9596.7	11643.1	15800.0	23773.7	29348.3	29502.3	22362.5	15383.0	11502.0
72.5°	3496.1	3707.8	4894.6	8493.4	16146.4	22452.3	22548.5	16556.9	8846.2	5318.0
75°	1289.4	1327.9	1546.0	2758.4	7357.9	13785.7	14144.9	8031.5	3143.3	1732.0
77.5°	744.1	750.5	827.5	1026.4	2181.1	5382.1	5600.2	2437.7	1218.8	923.8
80°	506.8	500.4	583.8	667.2	872.4	1526.8	1623.0	1020.0	769.8	641.5
82.5°	295.1	314.3	429.8	474.7	532.4	673.6	686.4	635.1	577.3	474.7
85°	179.6	147.5	237.4	263.0	307.9	301.5	301.5	346.4	372.1	333.6
87.5°	44.9	44.9	57.7	64.1	83.4	64.1	70.6	134.7	179.6	166.8
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°
6139.1	0°	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1	6139.1
6209.7	2.5°	6151.9	6132.7	6145.5	6216.1	6171.2	6036.5	6068.5	6139.1	6081.4	6049.3
6132.7	5°	6126.3	6164.7	6119.8	6132.7	6177.6	6068.5	6087.8	6177.6	6139.1	6151.9
6171.2	7.5°	6132.7	6151.9	6113.4	6055.7	6055.7	6145.5	6094.2	6107.0	6049.3	6145.5
6049.3	10°	6094.2	6042.9	5998.0	6030.0	6017.2	5991.5	5972.3	6010.8	5953.1	6036.5
5921.0	12.5°	5978.7	5991.5	5978.7	5965.9	5991.5	6055.7	5953.1	5965.9	5876.1	5888.9
5946.6	15°	5933.8	5972.3	5959.5	6030.0	6062.1	5965.9	6042.9	5965.9	5895.3	5856.8
5953.1	17.5°	5953.1	6010.8	5991.5	6042.9	5985.1	6055.7	6068.5	6036.5	5953.1	5921.0
5991.5	20°	5972.3	5953.1	5978.7	6068.5	6151.9	6081.4	6081.4	6062.1	5985.1	5940.2
6049.3	22.5°	6017.2	5985.1	6023.6	6094.2	6119.8	6228.9	6132.7	6087.8	5959.5	5844.0
6094.2	25°	6107.0	6126.3	6151.9	6126.3	6267.4	6254.6	6241.7	6209.7	6010.8	6017.2
6241.7	27.5°	6280.2	6171.2	6203.2	6357.2	6376.4	6427.8	6363.6	6421.3	6209.7	6216.1
6466.3	30°	6491.9	6376.4	6479.1	6613.8	6607.4	6703.6	6671.5	6684.4	6536.8	6453.4
6684.4	32.5°	6722.8	6710.0	6774.2	6857.6	6889.6	6941.0	6934.5	6934.5	6844.7	6626.6
7127.0	35°	6979.4	7069.3	7146.2	7236.0	7248.9	7313.0	7223.2	7236.0	7146.2	6985.9
7492.6	37.5°	7486.2	7479.8	7563.2	7672.3	7685.1	7633.8	7704.3	7672.3	7550.4	7441.3
8005.8	40°	8076.4	7948.1	8025.1	8281.7	8300.9	8211.1	8204.7	8198.3	8108.5	7871.1
8660.2	42.5°	8589.6	8756.4	8743.6	8826.9	8769.2	8724.3	8884.7	8794.9	8724.3	8474.1
9455.6	45°	9250.3	9301.7	9468.4	9737.9	9462.0	9462.0	9571.1	9500.5	9462.0	9276.0
10161.3	47.5°	10071.4	10116.3	10449.9	10469.2	10289.6	10167.7	10507.7	10520.5	10360.1	10219.0
11136.3	50°	11033.7	11052.9	11354.4	11662.3	11463.5	11232.5	11579.0	11713.7	11354.4	11162.0
12323.1	52.5°	12092.1	12034.4	12284.6	12861.9	12669.5	12598.9	12971.0	13003.1	12515.5	12214.0
13516.3	55°	13311.0	13234.0	13914.0	14305.3	14183.4	14055.1	14221.9	14298.9	13907.6	13413.6
15062.3	57.5°	14889.1	14927.5	15267.5	15652.4	15851.3	15883.4	15960.4	15883.4	15485.6	14985.3
16839.2	60°	16467.1	16582.6	17243.3	17968.2	18032.4	18596.9	18494.2	18109.4	17544.8	16832.8
16986.7	62.5°	17050.9	16954.7	18019.5	19790.1	21297.6	22330.4	21874.9	20508.5	19199.9	17904.1
15992.4	65°	15877.0	16114.3	17564.1	20335.3	23606.9	27693.3	25268.4	21490.0	18847.1	17172.8
13715.1	67.5°	13683.0	13862.7	15703.8	18629.0	24434.5	30990.5	26551.4	20104.4	16621.1	14452.8
9532.6	70°	9532.6	9622.4	11425.0	15261.1	22157.2	29245.7	23953.4	15440.7	11476.3	9147.7
3919.5	72.5°	3836.1	4054.2	5241.0	9192.6	16358.1	22221.3	16127.1	8102.1	4759.9	3541.0
1411.3	75°	1417.7	1424.1	1674.3	3162.6	7768.5	13965.3	7274.5	2604.5	1520.3	1244.5
853.2	77.5°	821.1	814.7	872.4	1141.9	2251.6	5452.7	2065.6	1020.0	827.5	744.1
538.9	80°	513.2	506.8	596.6	757.0	987.9	1494.7	872.4	635.1	558.1	481.1
352.8	82.5°	327.2	333.6	468.3	558.1	603.0	660.7	506.8	449.0	417.0	275.8
198.9	85°	211.7	192.4	327.2	372.1	333.6	295.1	282.3	237.4	218.1	134.7
102.6	87.5°	96.2	102.6	166.8	186.0	121.9	70.6	70.6	51.3	51.3	32.1
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°  
6139.1  
6042.9  
6081.4  
6017.2  
5946.6  
5933.8  
5927.4  
5953.1  
5940.2  
5953.1  
5998.0  
6087.8  
6280.2  
6658.7  
7037.2  
7357.9  
7819.8  
8429.2  
9102.8  
10007.3  
10899.0  
12284.6  
13586.8  
14824.9  
16864.9  
18000.3  
16986.7  
**14568.3**  
9276.0  
3213.9  
1186.8  
712.1  
481.1  
269.4  
147.5  
32.1  
0.0

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