

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: P574898

Luminaire Tested: **EPH-VN-06-740-U-5MQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574898  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-740-U-5MQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

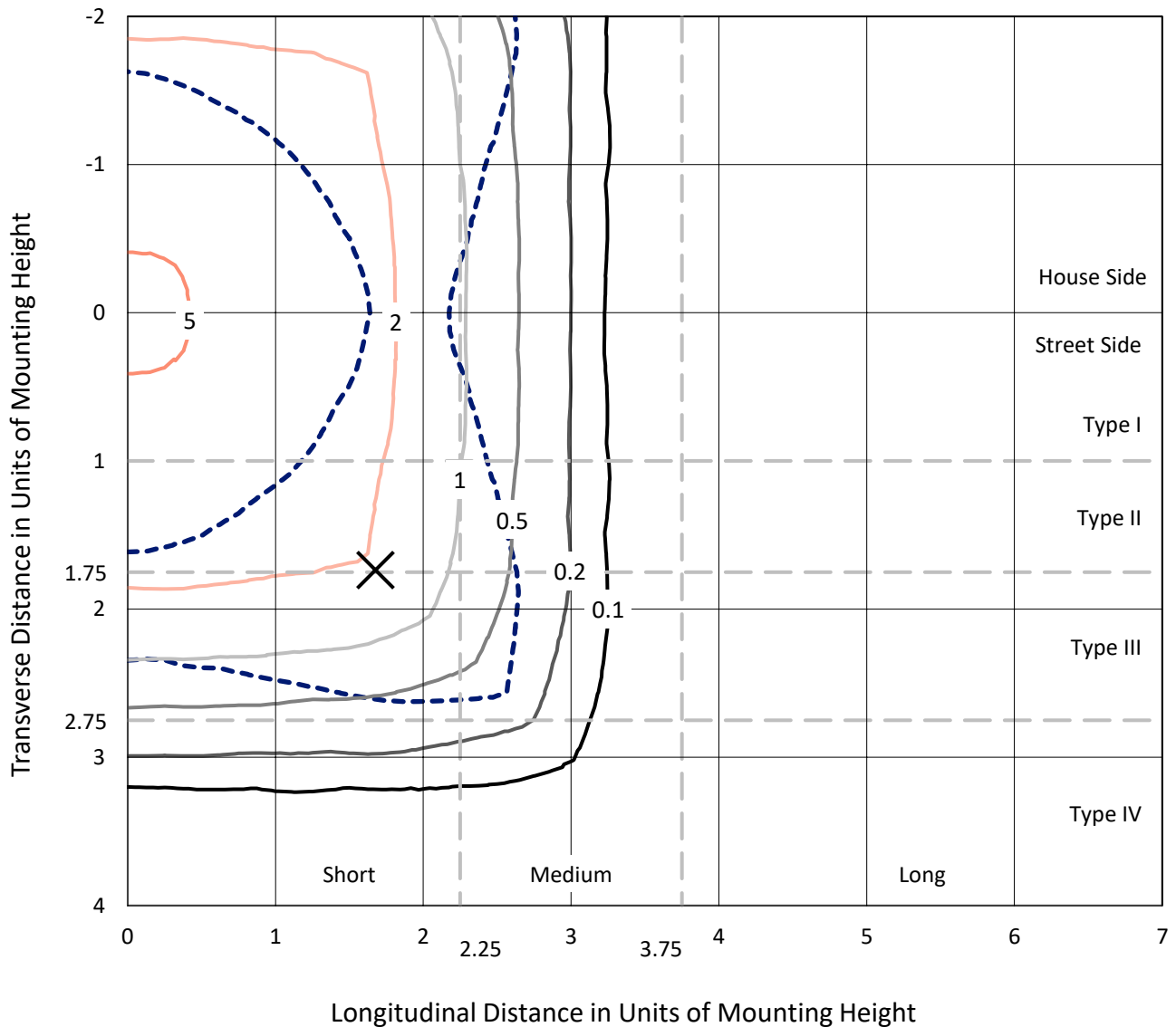
Lumens per Lamp: N/A  
Luminaire Lumens: 53410.8 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 464.2  
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

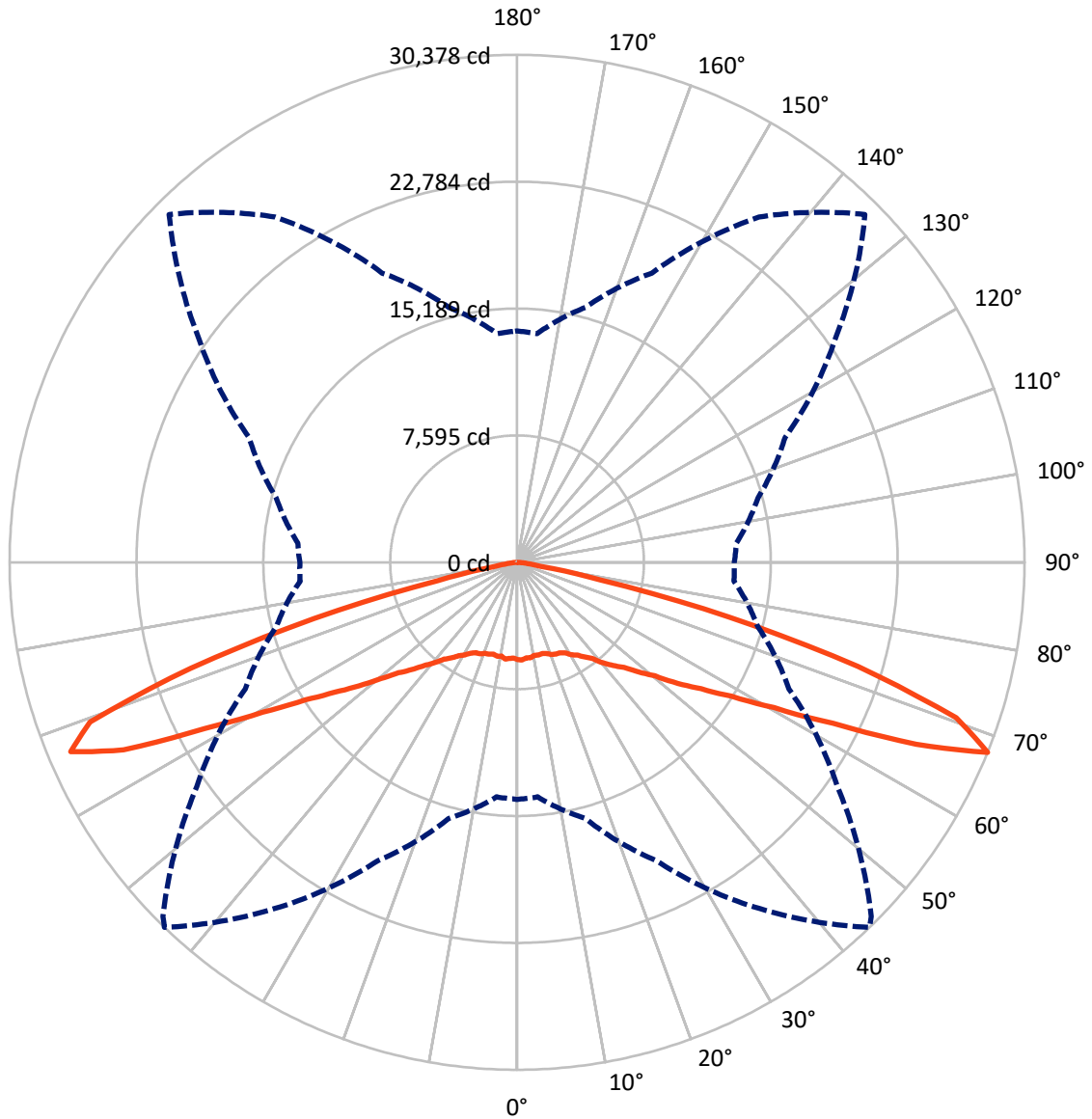
× Max cd  
 - - - 1/2 Max cd



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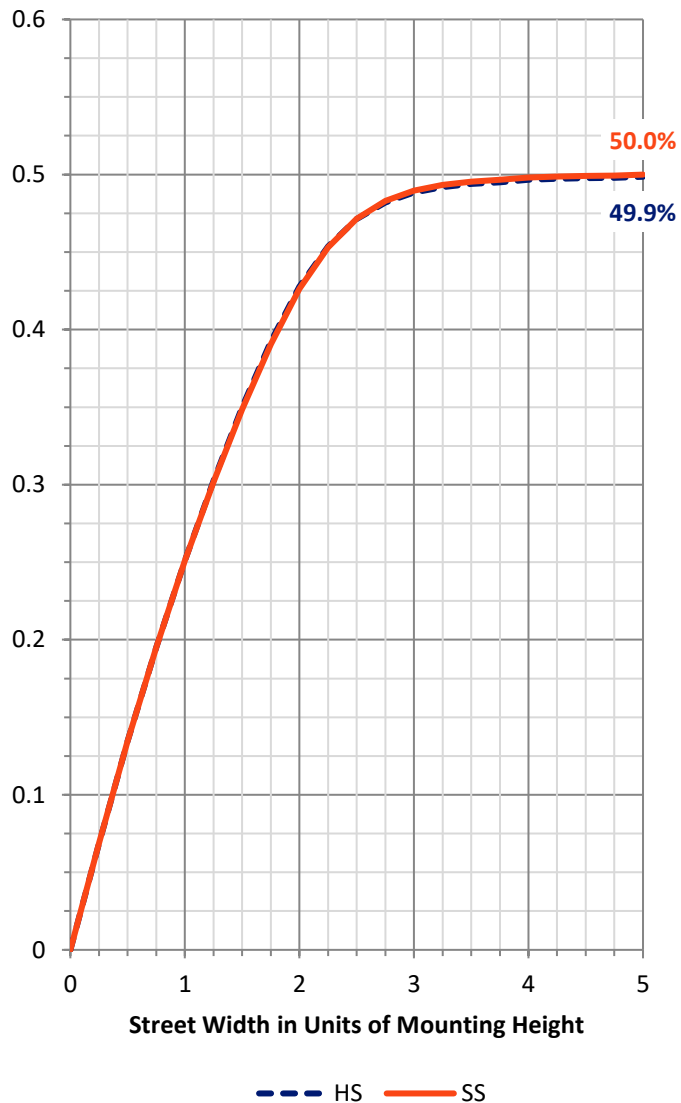
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26637.0	0.0	26637.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	26773.8	0.0	26773.8
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	53410.8	0.0	53410.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.1	1.0
10°-20°	1612.9	3.0
20°-30°	2742.9	5.1
30°-40°	4348.9	8.1
40°-50°	7091.3	13.3
50°-60°	12110.9	22.7
60°-70°	18420.6	34.5
70°-80°	6208.9	11.6
80°-90°	322.4	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°	53410.8	100.0
0°-180°	53410.8	100.0

**Coefficient of Utilization**

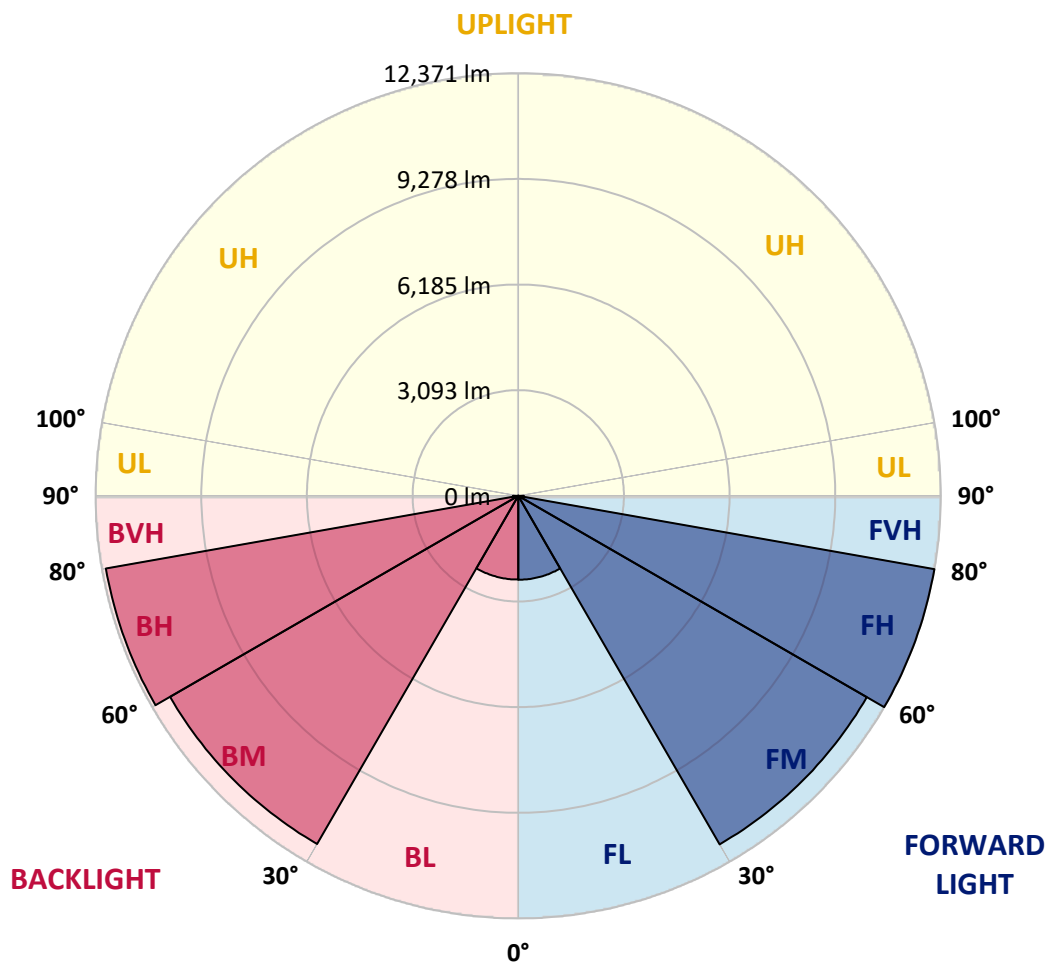


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2456.5	4.6			
FM (30°-60°)	11781.9	22.1			
FH (60°-80°)	12370.5	23.2			G5
FVH (80°-90°)	164.9	0.3			G2/225
BL (0°-30°)	2451.4	4.6	B3/2500		
BM (30°-60°)	11769.2	22.0	B5		
BH (60°-80°)	12259.0	23.0	B5		G5
BVH (80°-90°)	157.5	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°	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2
2.5°	5700.1	5767.2	5815.9	5809.8	5828.1	5846.4	5822.0	5858.6	5834.2	5876.9
5°	5809.8	5791.5	5797.6	5761.1	5846.4	5748.9	5748.9	5797.6	5858.6	5785.4
7.5°	5742.8	5730.6	5700.1	5755.0	5773.2	5773.2	5822.0	5730.6	5834.2	5858.6
10°	5669.6	5602.5	5694.0	5748.9	5761.1	5663.5	5706.2	5730.6	5700.1	5730.6
12.5°	5608.6	5645.2	5645.2	5645.2	5626.9	5694.0	5736.7	5730.6	5669.6	5724.5
15°	5602.5	5584.3	5639.1	5687.9	5657.4	5669.6	5687.9	5742.8	5626.9	5651.3
17.5°	5596.5	5620.8	5639.1	5633.0	5736.7	5736.7	5718.4	5681.8	5773.2	5724.5
20°	5620.8	5602.5	5651.3	5669.6	5742.8	5889.1	5834.2	5803.7	5755.0	5694.0
22.5°	5651.3	5639.1	5706.2	5785.4	5925.7	5962.2	5956.1	5919.6	5834.2	5761.1
25°	5761.1	5651.3	5724.5	5876.9	5925.7	5998.8	6047.6	5998.8	5883.0	5901.3
27.5°	5925.7	5907.4	6004.9	6108.5	6065.9	6132.9	6090.3	6126.8	6132.9	6041.5
30°	6120.7	6065.9	6126.8	6328.0	6346.3	6419.5	6346.3	6248.8	6279.2	6200.0
32.5°	6401.2	6382.9	6498.7	6632.8	6657.2	6620.6	6584.1	6638.9	6510.9	6449.9
35°	6584.1	6663.3	6803.5	6907.2	6986.4	6949.8	6968.1	6913.3	6943.7	6815.7
37.5°	7126.6	7096.2	7126.6	7303.4	7321.7	7303.4	7321.7	7382.7	7340.0	7230.3
40°	7638.7	7590.0	7663.1	7864.3	7852.1	7913.1	7791.1	7858.2	7858.2	7650.9
42.5°	8022.8	8187.4	8272.8	8437.4	8498.3	8443.5	8419.1	8431.3	8565.4	8321.5
45°	8815.3	8809.2	9065.3	9156.7	8986.0	8973.8	8925.1	9071.4	9162.8	9022.6
47.5°	9674.9	9717.6	9863.9	9900.5	10004.1	9815.1	9815.1	9833.4	10156.5	9827.3
50°	10449.2	10504.0	10796.6	11083.2	10888.1	10686.9	10766.2	10863.7	11040.5	10729.6
52.5°	11388.0	11686.7	11881.8	12034.2	12174.4	12034.2	11851.3	11961.0	12308.5	11894.0
55°	12741.4	12979.1	13162.0	13442.5	13558.3	13369.3	13351.0	13338.8	13533.9	13095.0
57.5°	14253.3	14155.7	14448.4	14881.2	15301.8	15119.0	15064.1	15076.3	15125.1	14503.2
60°	16131.0	16240.7	16588.2	16966.2	17411.2	17667.2	17307.5	17100.3	17142.9	16295.6
62.5°	17203.9	17447.8	18234.2	19532.7	20428.9	21227.5	21282.4	19935.1	19032.8	17386.8
65°	16685.7	16649.1	18130.6	20532.5	23928.2	26250.9	25903.4	22635.8	19483.9	16868.6
67.5°	14192.3	14094.8	15887.1	19697.3	25306.0	30378.1	29981.9	23397.8	17959.9	14923.9
70°	9144.5	9120.1	11064.9	15015.3	22593.1	27890.8	28037.1	21251.9	14619.1	10930.8
72.5°	3322.5	3523.7	4651.5	8071.6	15344.5	21337.2	21428.7	15734.7	8406.9	5053.9
75°	1225.4	1261.9	1469.2	2621.4	6992.5	13101.1	13442.5	7632.6	2987.2	1646.0
77.5°	707.2	713.3	786.4	975.4	2072.8	5114.8	5322.1	2316.6	1158.3	877.9
80°	481.6	475.5	554.8	634.0	829.1	1450.9	1542.4	969.3	731.6	609.6
82.5°	280.4	298.7	408.5	451.1	506.0	640.1	652.3	603.5	548.7	451.1
85°	170.7	140.2	225.6	250.0	292.6	286.5	286.5	329.2	353.6	317.0
87.5°	42.7	42.7	54.9	61.0	79.3	61.0	67.1	128.0	170.7	158.5
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°
5834.2	0°	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2	5834.2
5901.3	2.5°	5846.4	5828.1	5840.3	5907.4	5864.7	5736.7	5767.2	5834.2	5779.3	5748.9
5828.1	5°	5822.0	5858.6	5815.9	5828.1	5870.8	5767.2	5785.4	5870.8	5834.2	5846.4
5864.7	7.5°	5828.1	5846.4	5809.8	5755.0	5755.0	5840.3	5791.5	5803.7	5748.9	5840.3
5748.9	10°	5791.5	5742.8	5700.1	5730.6	5718.4	5694.0	5675.7	5712.3	5657.4	5736.7
5626.9	12.5°	5681.8	5694.0	5681.8	5669.6	5694.0	5755.0	5657.4	5669.6	5584.3	5596.5
5651.3	15°	5639.1	5675.7	5663.5	5730.6	5761.1	5669.6	5742.8	5669.6	5602.5	5566.0
5657.4	17.5°	5657.4	5712.3	5694.0	5742.8	5687.9	5755.0	5767.2	5736.7	5657.4	5626.9
5694.0	20°	5675.7	5657.4	5681.8	5767.2	5846.4	5779.3	5779.3	5761.1	5687.9	5645.2
5748.9	22.5°	5718.4	5687.9	5724.5	5791.5	5815.9	5919.6	5828.1	5785.4	5663.5	5553.8
5791.5	25°	5803.7	5822.0	5846.4	5822.0	5956.1	5943.9	5931.8	5901.3	5712.3	5718.4
5931.8	27.5°	5968.3	5864.7	5895.2	6041.5	6059.8	6108.5	6047.6	6102.5	5901.3	5907.4
6145.1	30°	6169.5	6059.8	6157.3	6285.3	6279.2	6370.7	6340.2	6352.4	6212.2	6132.9
6352.4	32.5°	6389.0	6376.8	6437.7	6517.0	6547.5	6596.3	6590.2	6590.2	6504.8	6297.5
6773.0	35°	6632.8	6718.2	6791.3	6876.7	6888.9	6949.8	6864.5	6876.7	6791.3	6638.9
7120.5	37.5°	7114.4	7108.3	7187.6	7291.2	7303.4	7254.7	7321.7	7291.2	7175.4	7071.8
7608.2	40°	7675.3	7553.4	7626.5	7870.4	7888.7	7803.3	7797.2	7791.1	7705.8	7480.2
8230.1	42.5°	8163.0	8321.5	8309.3	8388.6	8333.7	8291.0	8443.5	8358.1	8291.0	8053.3
8986.0	45°	8790.9	8839.7	8998.2	9254.3	8992.1	8992.1	9095.8	9028.7	8992.1	8815.3
9656.6	47.5°	9571.3	9614.0	9931.0	9949.2	9778.6	9662.7	9985.8	9998.0	9845.6	9711.5
10583.3	50°	10485.7	10504.0	10790.5	11083.2	10894.2	10674.7	11003.9	11131.9	10790.5	10607.7
11711.1	52.5°	11491.6	11436.8	11674.5	12223.2	12040.3	11973.2	12326.8	12357.3	11894.0	11607.5
12845.0	55°	12649.9	12576.8	13223.0	13594.9	13479.0	13357.1	13515.6	13588.8	13216.9	12747.5
14314.2	57.5°	14149.6	14186.2	14509.3	14875.1	15064.1	15094.6	15167.7	15094.6	14716.6	14241.1
16002.9	60°	15649.3	15759.1	16387.0	17075.9	17136.9	17673.3	17575.8	17210.0	16673.5	15996.8
16143.1	62.5°	16204.1	16112.7	17124.7	18807.3	20239.9	21221.4	20788.6	19490.0	18246.4	17014.9
15198.2	65°	15088.5	15314.0	16691.8	19325.4	22434.6	26318.0	24013.5	20422.8	17911.1	16319.9
13034.0	67.5°	13003.5	13174.2	14923.9	17703.8	23221.0	29451.5	25232.8	19106.0	15795.7	13735.1
9059.2	70°	9059.2	9144.5	10857.6	14503.2	21056.8	27793.3	22763.8	14673.9	10906.4	8693.4
3724.9	72.5°	3645.6	3852.9	4980.7	8736.1	15545.7	21117.8	15326.2	7699.7	4523.5	3365.2
1341.2	75°	1347.3	1353.4	1591.1	3005.5	7382.7	13271.8	6913.3	2475.1	1444.8	1182.7
810.8	77.5°	780.3	774.2	829.1	1085.2	2139.8	5181.9	1963.0	969.3	786.4	707.2
512.1	80°	487.7	481.6	567.0	719.4	938.8	1420.5	829.1	603.5	530.4	457.2
335.3	82.5°	310.9	317.0	445.0	530.4	573.1	627.9	481.6	426.7	396.3	262.1
189.0	85°	201.2	182.9	310.9	353.6	317.0	280.4	268.2	225.6	207.3	128.0
97.5	87.5°	91.4	97.5	158.5	176.8	115.8	67.1	67.1	48.8	48.8	30.5
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°  
5834.2  
5742.8  
5779.3  
5718.4  
5651.3  
5639.1  
5633.0  
5657.4  
5645.2  
5657.4  
5700.1  
5785.4  
5968.3  
6328.0  
6687.7  
6992.5  
7431.5  
8010.6  
8650.7  
9510.3  
10357.7  
11674.5  
12912.1  
14088.7  
16027.3  
17106.4  
16143.1  
*13844.8*  
8815.3  
3054.3  
1127.8  
676.7  
457.2  
256.0  
140.2  
30.5  
0.0

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