

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: P575456

Luminaire Tested: **EPH-VN-04-740-U-SL4-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575456  
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-SL4-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

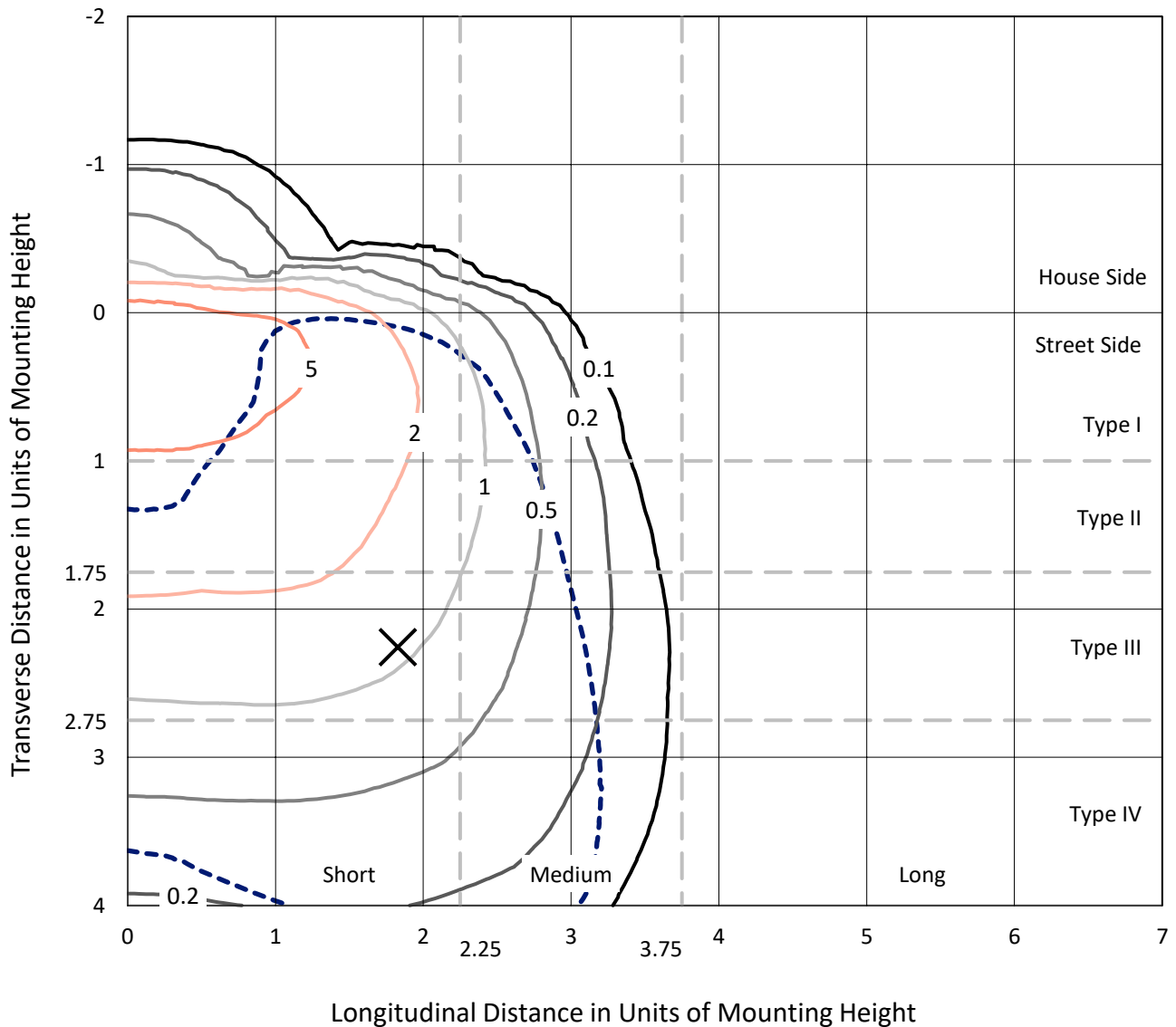
Lumens per Lamp: N/A  
Luminaire Lumens: 28893.2 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 241  
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

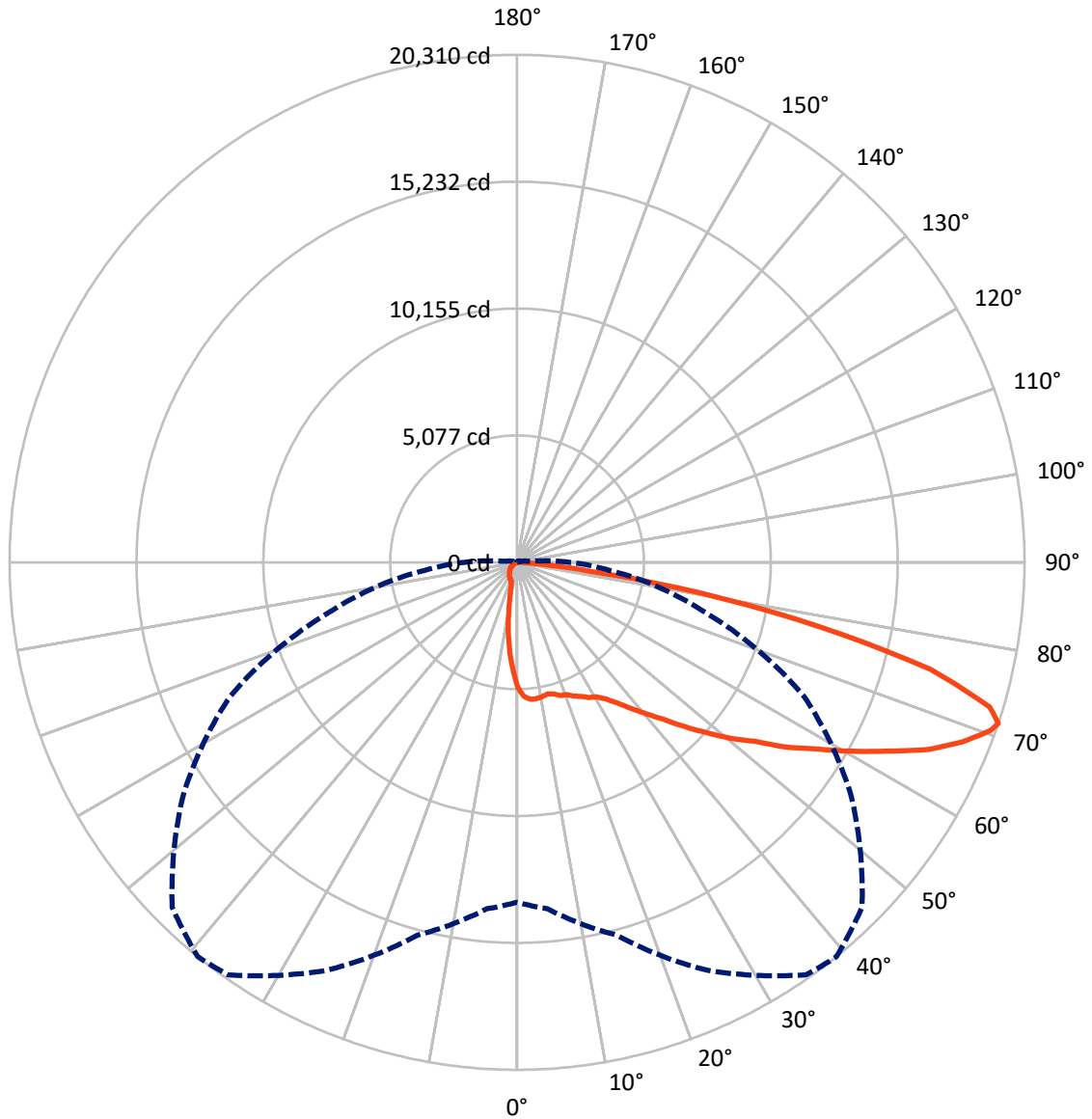
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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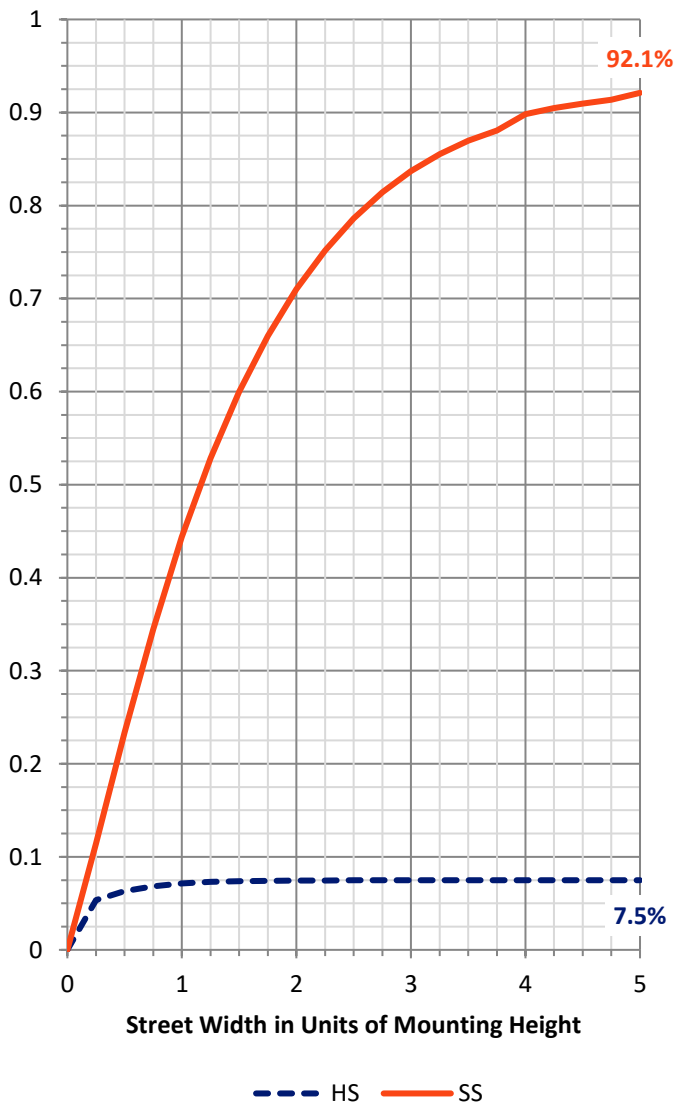
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2175.2	0.0	2175.2
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	26718.0	0.0	26718.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	28893.2	0.0	28893.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.5	1.5
10°-20°	1034.9	3.6
20°-30°	1661.4	5.8
30°-40°	2543.2	8.8
40°-50°	4082.2	14.1
50°-60°	5996.1	20.8
60°-70°	7551.9	26.1
70°-80°	5039.9	17.4
80°-90°	563.2	1.9
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°	28893.2	100.0
0°-180°	28893.2	100.0

**Coefficient of Utilization**



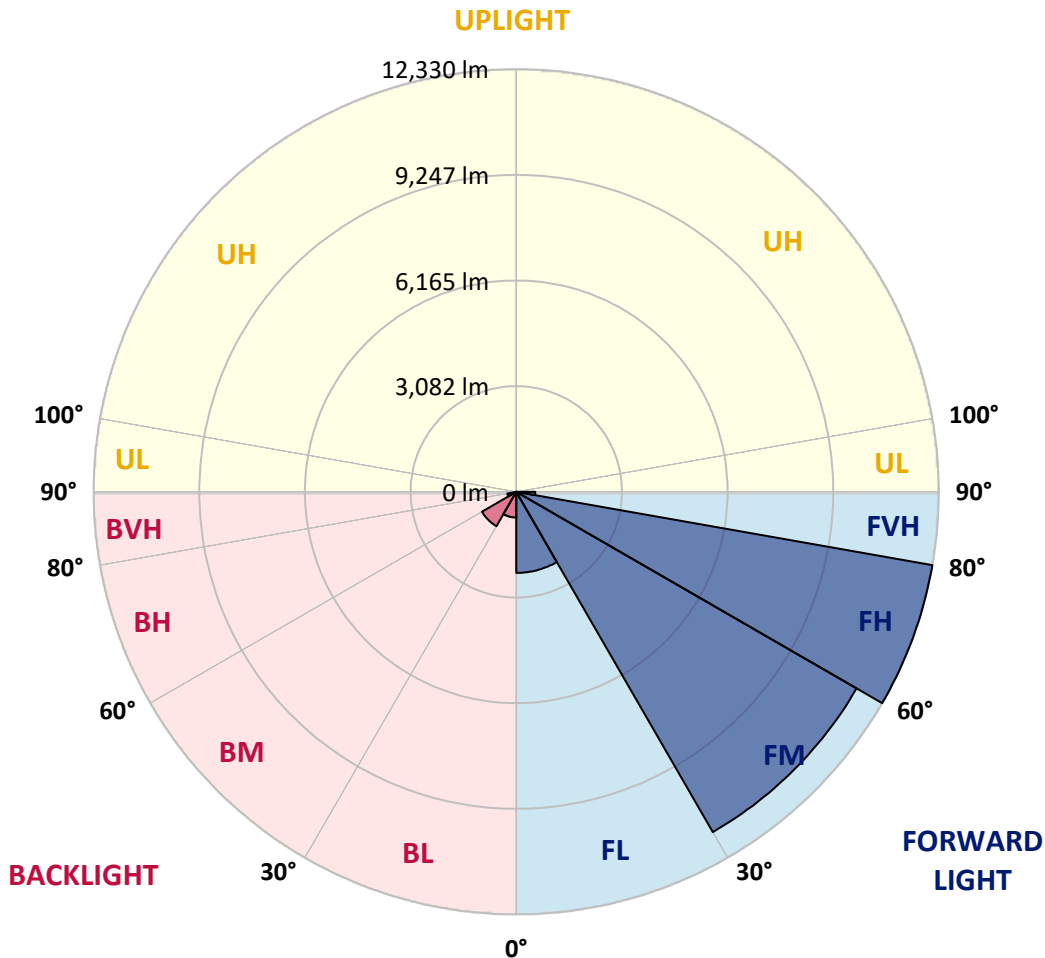
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2365.7	8.2			
FM (30°-60°)	11465.2	39.7			
FH (60°-80°)	12330.0	42.7			G5
FVH (80°-90°)	557.0	1.9			G4/750
BL (0°-30°)	751.0	2.6	B2/1000		
BM (30°-60°)	1156.2	4.0	B2/2500		
BH (60°-80°)	261.8	0.9	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0
2.5°	5419.4	5472.4	5419.4	5396.7	5373.9	5377.7	5317.1	5328.4	5256.4	5161.7
5°	5589.9	5661.9	5605.1	5578.6	5574.8	5502.8	5472.4	5400.4	5313.3	5165.5
7.5°	5574.8	5559.6	5586.1	5563.4	5514.1	5514.1	5480.0	5377.7	5290.5	5123.8
10°	5461.1	5506.6	5483.8	5457.3	5468.7	5472.4	5408.0	5336.0	5309.5	5142.7
12.5°	5449.7	5373.9	5457.3	5461.1	5411.8	5408.0	5400.4	5381.5	5298.1	5146.5
15°	5411.8	5381.5	5464.9	5468.7	5480.0	5468.7	5480.0	5464.9	5381.5	5294.3
17.5°	5442.1	5408.0	5525.5	5582.4	5555.8	5608.9	5589.9	5521.7	5449.7	5347.4
20°	5449.7	5499.0	5627.8	5650.6	5733.9	5646.8	5643.0	5571.0	5525.5	5415.6
22.5°	5589.9	5612.7	5771.8	5821.1	5824.9	5813.5	5718.8	5635.4	5616.5	5480.0
25°	5802.2	5881.7	5953.8	5984.1	5995.4	5942.4	5843.8	5737.7	5692.3	5605.1
27.5°	6177.3	6128.1	6192.5	6238.0	6109.1	6128.1	6003.0	5912.1	5847.6	5771.8
30°	6510.8	6465.4	6469.2	6461.6	6351.7	6249.4	6215.2	6056.1	5976.5	6006.8
32.5°	6810.2	6711.7	6795.1	6757.2	6552.5	6522.2	6495.7	6294.8	6310.0	6450.2
35°	7086.9	7052.8	7121.0	7052.8	6916.4	6908.8	6882.2	6707.9	6791.3	6992.2
37.5°	7340.8	7352.2	7435.6	7401.4	7412.8	7420.4	7405.2	7219.5	7458.3	7909.3
40°	7575.8	7560.6	7765.3	7871.4	7894.1	7977.5	7977.5	7932.0	8299.6	8807.5
42.5°	7825.9	7863.8	8129.1	8307.2	8523.2	8595.2	8693.8	8716.5	9285.0	9864.8
45°	8235.2	8170.8	8508.1	8928.7	9118.2	9372.1	9523.7	9652.6	10338.5	11134.4
47.5°	8754.4	8625.5	8921.2	9531.3	9970.9	10179.4	10452.2	10622.8	11293.6	12115.9
50°	9330.4	9197.8	9341.8	10183.1	10694.8	11073.7	11422.4	11638.4	12449.4	13215.0
52.5°	9982.3	9861.0	9883.8	10861.5	11615.7	11892.3	12350.9	12673.0	13480.3	13878.2
55°	10675.8	10645.5	10573.5	11524.7	12422.9	13044.4	13321.1	13707.6	14537.6	14238.2
57.5°	11373.1	11278.4	11380.7	12404.0	13719.0	14090.4	14473.2	14704.4	15125.0	14552.8
60°	12028.8	12036.4	12180.4	13359.0	14821.8	15348.6	15693.5	15553.3	15727.6	14689.2
62.5°	12582.1	12566.9	12930.7	14431.5	16280.9	16637.2	16894.9	16269.5	16008.0	14821.8
65°	13078.5	13249.1	13821.3	15708.7	17652.8	18062.1	17906.7	16947.9	16280.9	14431.5
67.5°	13453.7	13707.6	14700.6	16910.0	18911.0	19199.0	18983.0	17463.3	15958.8	12900.4
70°	13673.5	13931.2	15329.7	17910.5	19915.3	20123.8	19615.9	17065.4	14079.0	9341.8
71°	13605.3	13919.9	15450.9	18016.6	20154.1	20309.5	19521.2	16330.2	12661.7	7822.1
72.5°	12987.6	13283.2	14946.9	17940.8	19866.0	19771.3	18782.2	14564.1	9967.1	4987.4
75°	9542.7	9861.0	12828.4	15519.2	17732.4	17080.6	15200.8	10221.0	5199.6	1527.3
77.5°	4752.4	4805.4	7962.3	11267.0	13006.5	12358.5	10186.9	5699.8	1944.2	451.0
80°	2190.5	2205.7	2986.3	5836.3	7863.8	7401.4	5707.4	2812.0	879.2	238.8
82.5°	1493.2	1515.9	1800.1	2417.9	3414.6	2880.2	2311.8	1800.1	504.0	144.0
85°	272.9	250.1	1008.1	1280.9	1318.8	894.4	799.6	1557.6	189.5	83.4
87.5°	0.0	3.8	140.2	523.0	469.9	208.4	272.9	379.0	18.9	26.5
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°
5029.0	0°	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0	5029.0
5085.9	2.5°	5021.5	4979.8	4839.6	4684.2	4544.0	4434.0	4293.8	4229.4	4127.1	4070.2
5074.5	5°	4949.5	4835.8	4593.2	4331.7	4039.9	3797.4	3528.3	3376.7	3202.4	3149.3
4968.4	7.5°	4828.2	4665.2	4309.0	3941.4	3494.2	3065.9	2736.2	2383.8	2167.8	2076.8
4888.8	10°	4752.4	4555.3	4070.2	3520.7	2895.4	2292.8	1830.5	1455.3	1258.2	1163.5
4907.8	12.5°	4752.4	4540.2	3876.9	3119.0	2289.0	1569.0	1133.1	917.1	852.7	830.0
4991.1	15°	4741.0	4509.8	3691.2	2705.9	1694.0	1053.6	845.1	799.6	792.1	788.3
5070.7	17.5°	4797.9	4456.8	3501.8	2262.5	1197.6	830.0	776.9	769.3	761.7	761.7
5120.0	20°	4839.6	4426.5	3274.4	1792.6	894.4	769.3	746.6	735.2	731.4	727.6
5131.4	22.5°	4805.4	4381.0	2993.9	1341.6	780.7	731.4	716.3	704.9	697.3	697.3
5248.9	25°	4869.9	4339.3	2713.5	1011.9	731.4	697.3	682.2	674.6	670.8	667.0
5385.3	27.5°	4957.0	4358.3	2380.0	814.8	689.7	663.2	648.1	640.5	636.7	629.1
5597.5	30°	5063.2	4354.5	2012.4	712.5	651.8	625.3	610.2	606.4	598.8	595.0
5915.9	32.5°	5245.1	4453.0	1633.4	659.4	610.2	587.4	572.3	568.5	564.7	560.9
6461.6	35°	5635.4	4574.3	1277.2	617.7	572.3	545.7	534.4	526.8	523.0	519.2
7098.3	37.5°	6116.7	4843.3	974.0	579.8	534.4	507.8	496.5	492.7	477.5	473.7
7981.3	40°	6719.3	5131.4	750.4	538.1	500.3	473.7	462.4	451.0	432.0	424.5
8883.3	42.5°	7469.7	5411.8	617.7	500.3	462.4	443.4	424.5	405.5	390.3	375.2
9785.2	45°	8220.0	5737.7	541.9	466.1	432.0	409.3	394.1	367.6	341.1	318.3
10637.9	47.5°	8845.4	5855.2	496.5	428.2	401.7	382.8	360.0	325.9	288.0	265.3
11259.4	50°	9311.5	5787.0	451.0	390.3	367.6	348.7	318.3	276.7	238.8	216.0
11479.3	52.5°	9402.5	5487.6	409.3	360.0	333.5	310.8	276.7	231.2	189.5	166.8
11718.0	55°	9338.0	4991.1	375.2	333.5	303.2	269.1	231.2	185.7	147.8	125.1
11627.1	57.5°	9205.4	4403.7	337.3	299.4	265.3	231.2	189.5	151.6	109.9	87.2
11418.6	60°	8754.4	3604.1	299.4	261.5	227.4	197.1	155.4	109.9	75.8	56.8
11054.8	62.5°	8125.3	2770.3	261.5	223.6	197.1	163.0	121.3	79.6	45.5	30.3
10031.6	65°	6977.0	1940.4	219.8	185.7	163.0	132.6	91.0	49.3	26.5	11.4
8170.8	67.5°	5301.9	1201.4	181.9	155.4	140.2	106.1	64.4	30.3	11.4	3.8
5097.3	70°	3043.2	625.3	144.0	125.1	109.9	79.6	45.5	15.2	7.6	0.0
3717.8	71°	2126.1	462.4	128.9	109.9	98.5	72.0	37.9	11.4	3.8	0.0
1921.4	72.5°	1064.9	307.0	109.9	91.0	79.6	56.8	30.3	11.4	3.8	0.0
560.9	75°	379.0	197.1	75.8	60.6	56.8	41.7	18.9	7.6	3.8	0.0
280.4	77.5°	261.5	159.2	53.1	37.9	37.9	26.5	11.4	3.8	3.8	0.0
219.8	80°	238.8	87.2	34.1	22.7	18.9	15.2	7.6	3.8	0.0	0.0
216.0	82.5°	238.8	64.4	18.9	15.2	11.4	7.6	3.8	0.0	0.0	0.0
189.5	85°	166.8	34.1	11.4	11.4	7.6	3.8	0.0	0.0	0.0	0.0
34.1	87.5°	26.5	11.4	7.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0
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°  
5029.0  
4066.4  
3137.9  
2042.7  
1140.7  
830.0  
784.5  
754.2  
735.2  
701.1  
659.4  
636.7  
598.8  
557.1  
515.4  
469.9  
416.9  
367.6  
314.6  
261.5  
208.4  
163.0  
121.3  
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