

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: P575344

Luminaire Tested: **EPH-VN-06-750-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575344
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

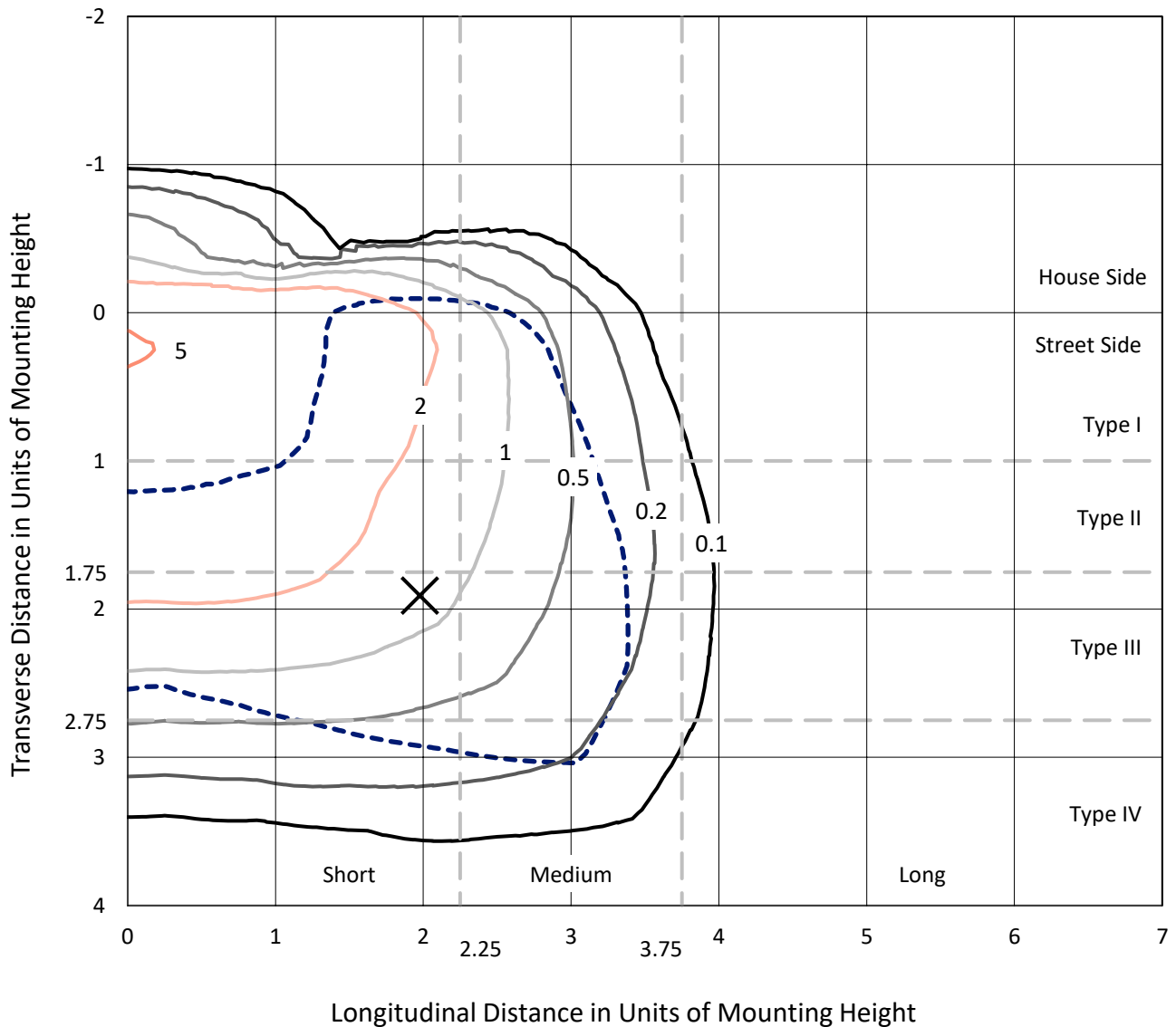
Lumens per Lamp: N/A
Luminaire Lumens: 34507.9 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2
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

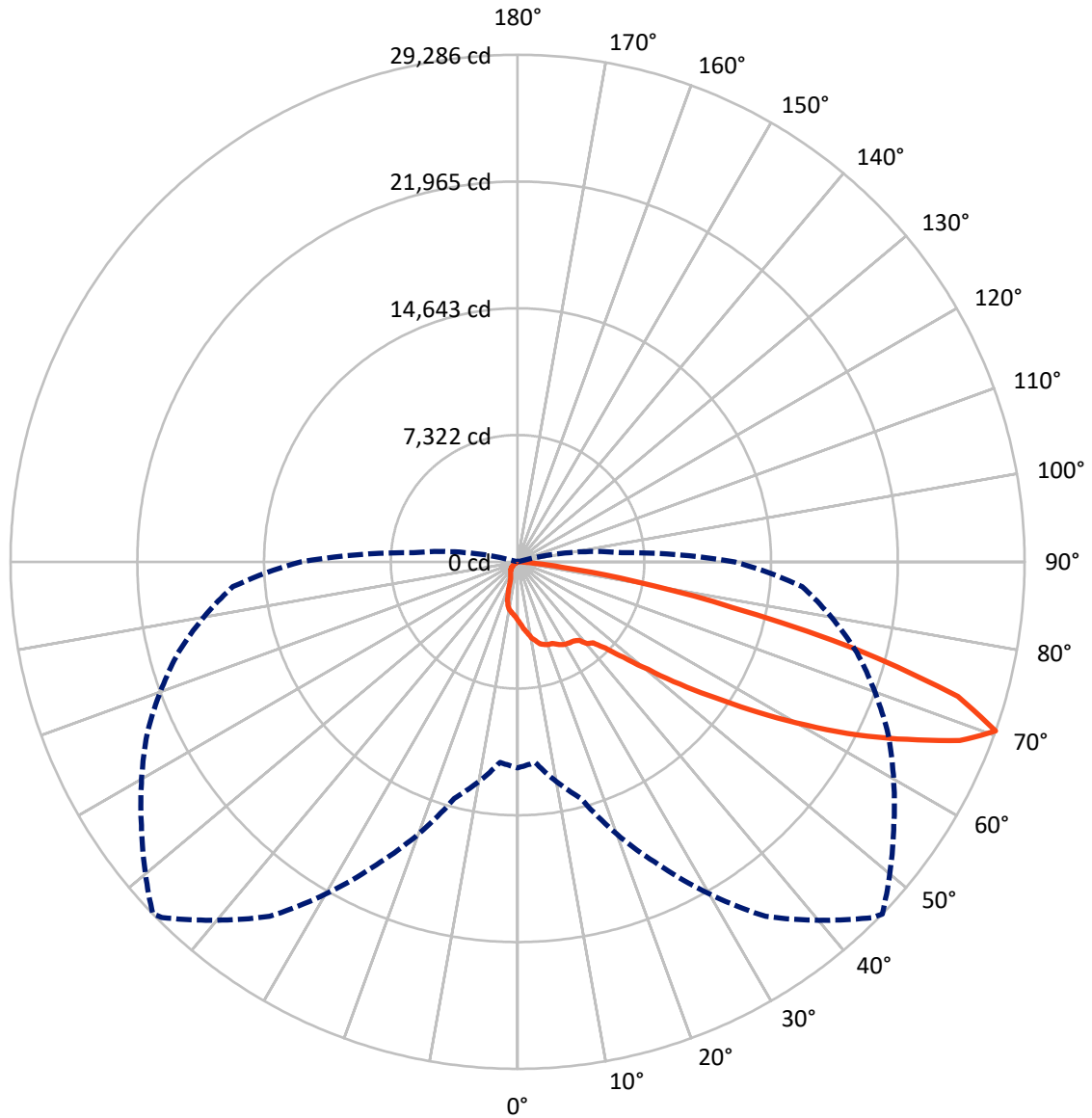
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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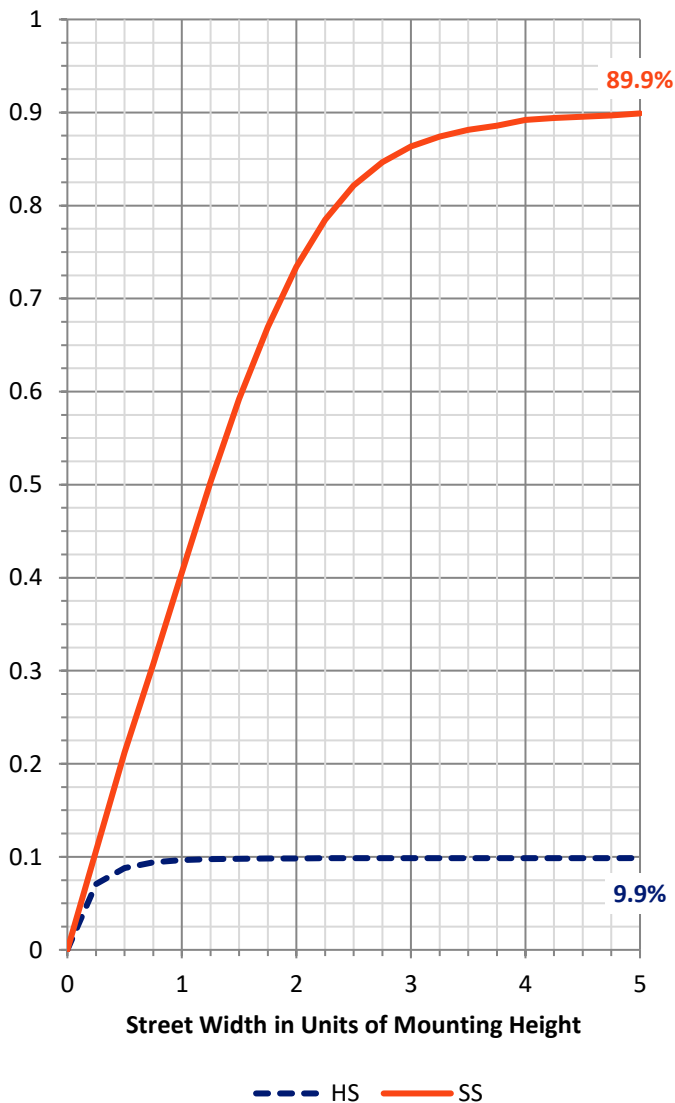
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3433.6	0.0	3433.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	31074.3	0.0	31074.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	34507.9	0.0	34507.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.8	1.0
10°-20°	1020.1	3.0
20°-30°	1633.9	4.7
30°-40°	2332.2	6.8
40°-50°	4027.1	11.7
50°-60°	7710.3	22.3
60°-70°	11417.7	33.1
70°-80°	5655.1	16.4
80°-90°	373.7	1.1
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°	34507.9	100.0
0°-180°	34507.9	100.0

Coefficient of Utilization



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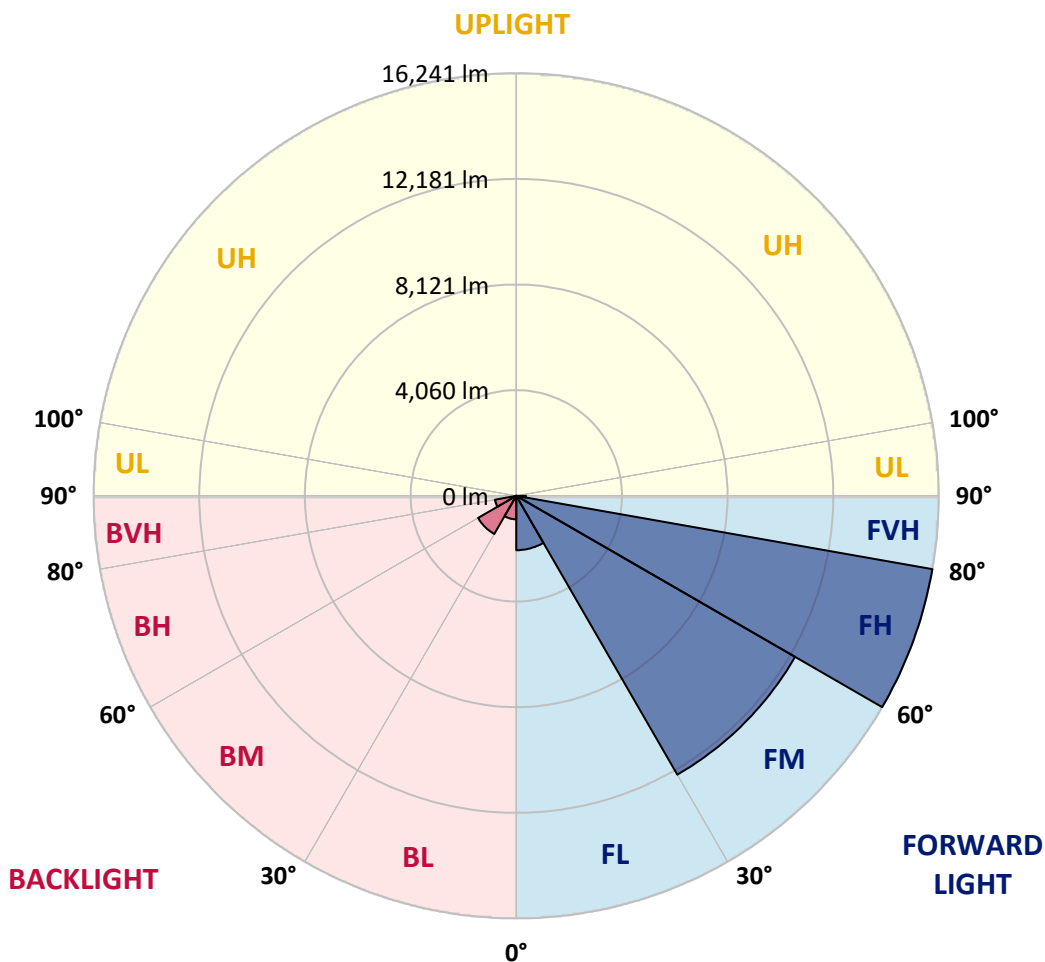
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.7	6.1			
FM (30°-60°)	12374.5	35.9			
FH (60°-80°)	16241.2	47.1			G5
FVH (80°-90°)	368.9	1.1			G3/500
BL (0°-30°)	902.1	2.6	B2/1000		
BM (30°-60°)	1695.2	4.9	B2/2500		
BH (60°-80°)	831.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.8	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°	45°	46°	55°	65°	75°
0°	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6
2.5°	3780.0	3755.2	3715.4	3700.5	3660.8	3640.9	3611.1	3596.2	3541.6	3486.9
5°	4242.0	4182.4	4202.2	4142.6	4013.5	3909.2	3904.2	3789.9	3665.8	3566.4
7.5°	4708.9	4659.2	4584.7	4500.2	4356.2	4202.2	4157.5	4048.2	3874.4	3700.5
10°	5061.5	5026.8	4962.2	4843.0	4644.3	4470.4	4475.4	4291.6	4107.8	3909.2
12.5°	5280.1	5295.0	5200.6	5081.4	4907.6	4689.0	4684.0	4559.9	4351.2	4142.6
15°	5498.6	5553.3	5409.2	5270.2	5046.6	4887.7	4917.5	4768.5	4564.8	4326.4
17.5°	5533.4	5548.3	5518.5	5314.9	5150.9	5016.8	5021.8	4922.5	4768.5	4510.2
20°	5473.8	5463.9	5429.1	5280.1	5170.8	5091.3	5096.3	5071.5	4987.0	4778.4
22.5°	5300.0	5300.0	5255.3	5155.9	5106.2	5180.8	5121.1	5215.5	5126.1	5001.9
25°	5160.9	5215.5	5190.7	5126.1	5146.0	5245.3	5275.1	5364.5	5349.6	5195.7
27.5°	5309.9	5245.3	5260.2	5185.7	5260.2	5409.2	5424.1	5488.7	5483.7	5359.6
30°	5409.2	5468.8	5354.6	5190.7	5270.2	5523.5	5513.6	5598.0	5637.7	5488.7
32.5°	5727.1	5677.5	5583.1	5364.5	5374.5	5518.5	5563.2	5672.5	5697.3	5607.9
35°	6377.8	6303.3	5891.1	5563.2	5513.6	5583.1	5612.9	5826.5	5871.2	5771.8
37.5°	7381.2	7212.3	6715.6	5990.4	5766.9	5752.0	5752.0	6035.1	6204.0	5975.5
40°	8816.7	8578.3	8041.8	6780.2	6099.7	6159.3	6218.9	6372.9	6353.0	6204.0
42.5°	10644.6	10460.8	9879.7	8106.4	6735.5	6437.4	6387.8	6596.4	6909.3	6849.7
45°	12169.5	12179.5	11806.9	9924.4	7833.2	7078.2	7113.0	7271.9	7798.4	7753.7
47.5°	13282.2	13143.1	13088.5	11677.8	9432.6	8295.2	8245.5	8354.8	9040.2	9323.4
50°	14295.5	14201.1	14072.0	13381.5	11354.9	9820.1	9770.4	9780.3	10828.4	11225.8
52.5°	15552.2	15671.4	15244.2	14822.0	13843.5	11802.0	11747.3	11553.6	12855.0	13401.4
55°	17101.9	16878.4	16396.6	16615.2	16222.8	13942.8	13843.5	13615.0	15164.7	15393.2
57.5°	17444.7	17275.8	17772.5	18547.4	18924.9	16456.2	16416.5	16004.2	17106.9	16898.3
60°	18299.0	18343.7	19034.2	20574.0	21229.7	19357.0	19163.3	18438.1	18989.5	19029.2
62.5°	19178.2	19073.9	20618.7	22098.9	23107.2	22103.9	22039.3	20598.8	21224.7	20718.0
65°	18532.5	18691.4	20901.8	23380.4	25541.1	24791.1	24736.5	22680.1	23022.8	22392.0
67.5°	16237.7	15914.8	19009.3	22794.3	26792.9	27607.5	27547.9	24950.1	24036.1	22382.0
70°	11901.3	11623.2	14146.5	19302.4	24999.7	29048.0	29286.4	26529.6	23623.8	20295.8
72.5°	5831.4	5836.4	7927.6	13088.5	19779.2	26475.0	26594.2	24324.2	20295.8	14961.1
75°	1723.6	1743.5	2935.6	6417.6	12785.5	20107.1	20241.2	18462.9	14067.0	7728.9
77.5°	630.8	630.8	973.6	2409.1	6377.8	12691.1	12681.2	11335.1	7122.9	2617.7
80°	327.8	342.7	506.7	983.5	2761.7	6611.3	6859.7	5548.3	2707.1	1102.7
82.5°	134.1	149.0	278.2	506.7	1326.2	2319.7	2538.2	2175.6	1177.2	769.9
85°	39.7	44.7	134.1	283.1	521.6	581.2	645.7	730.2	740.1	596.1
87.5°	5.0	5.0	54.6	94.4	114.2	124.2	144.0	144.0	377.5	417.2
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°
3387.6	0°	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6
3452.2	2.5°	3412.4	3387.6	3347.9	3258.5	3238.6	3174.0	3169.0	3109.4	3129.3	3089.6
3432.3	5°	3387.6	3333.0	3223.7	3154.1	3084.6	3039.9	3010.1	2985.3	2980.3	2960.4
3521.7	7.5°	3432.3	3357.8	3188.9	3079.6	2960.4	2920.7	2856.1	2851.2	2816.4	2781.6
3665.8	10°	3581.3	3447.2	3263.4	3079.6	2925.7	2796.5	2647.5	2538.2	2498.5	2409.1
3854.5	12.5°	3700.5	3581.3	3313.1	3124.3	2890.9	2597.8	2270.0	2016.7	1897.5	1783.2
4008.5	15°	3869.4	3695.6	3407.5	3134.3	2756.8	2250.1	1713.7	1430.5	1321.3	1296.4
4237.0	17.5°	4053.2	3869.4	3526.7	3109.4	2483.6	1738.5	1261.7	1097.7	1117.6	1147.4
4405.9	20°	4256.9	4033.3	3616.1	3025.0	2051.4	1261.7	1033.2	1028.2	1058.0	1102.7
4694.0	22.5°	4470.4	4276.7	3725.4	2771.7	1529.9	1013.3	993.4	993.4	1013.3	1067.9
4892.7	25°	4708.9	4450.6	3780.0	2379.3	1097.7	933.8	943.8	963.6	973.6	1018.3
5071.5	27.5°	4892.7	4644.3	3794.9	1907.4	894.1	864.3	889.1	914.0	928.9	963.6
5240.4	30°	5061.5	4887.7	3715.4	1420.6	819.6	804.7	814.6	849.4	879.2	909.0
5404.3	32.5°	5275.1	5026.8	3531.7	1008.3	774.9	750.0	745.1	760.0	794.7	829.5
5578.1	35°	5493.7	5260.2	3238.6	809.6	735.1	700.4	680.5	665.6	680.5	705.3
5836.4	37.5°	5811.6	5612.9	2871.0	745.1	705.3	655.7	615.9	581.2	556.3	551.4
6174.2	40°	6263.6	6010.3	2399.1	700.4	670.6	611.0	551.4	491.7	437.1	402.3
6829.8	42.5°	6949.1	6596.4	1887.5	675.5	645.7	561.3	476.8	392.4	322.9	288.1
7748.8	45°	7927.6	7371.3	1385.8	650.7	615.9	501.7	392.4	293.1	223.5	203.7
9452.5	47.5°	9402.8	8305.1	993.4	611.0	576.2	437.1	308.0	208.6	163.9	154.0
11543.7	50°	11330.1	9412.8	774.9	566.3	526.5	367.6	228.5	154.0	129.1	124.2
13778.9	52.5°	13351.7	10530.4	680.5	526.5	452.0	293.1	168.9	124.2	109.3	104.3
15790.6	55°	15080.3	11250.6	591.1	466.9	362.6	218.6	134.1	109.3	94.4	79.5
18020.9	57.5°	16828.7	11613.2	466.9	387.4	268.2	163.9	114.2	94.4	79.5	64.6
20226.3	60°	18249.4	11871.5	332.8	288.1	188.8	129.1	99.3	84.4	64.6	49.7
22302.6	62.5°	19183.2	11131.4	243.4	218.6	139.1	109.3	84.4	69.5	49.7	34.8
23147.0	65°	18721.2	10108.2	188.8	154.0	104.3	84.4	69.5	49.7	34.8	19.9
21393.6	67.5°	16798.9	8235.6	154.0	114.2	79.5	64.6	54.6	39.7	19.9	5.0
16505.9	70°	12532.2	6035.1	124.2	84.4	64.6	49.7	39.7	24.8	9.9	5.0
9348.2	72.5°	6854.7	3303.2	99.3	69.5	49.7	39.7	29.8	19.9	9.9	0.0
3188.9	75°	2265.0	879.2	74.5	49.7	29.8	24.8	19.9	14.9	5.0	0.0
745.1	77.5°	546.4	228.5	59.6	44.7	24.8	14.9	9.9	5.0	5.0	0.0
218.6	80°	168.9	94.4	44.7	29.8	19.9	14.9	5.0	0.0	0.0	0.0
99.3	82.5°	69.5	44.7	19.9	19.9	14.9	5.0	0.0	0.0	0.0	0.0
44.7	85°	34.8	24.8	14.9	9.9	9.9	5.0	0.0	0.0	0.0	0.0
24.8	87.5°	24.8	9.9	5.0	5.0	0.0	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°
3387.6
3074.7
2950.5
2781.6
2419.0
1827.9
1291.5
1142.4
1112.6
1058.0
1023.2
978.5
909.0
829.5
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