

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: P575339

Luminaire Tested: **EPH-VN-07-740-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575339
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

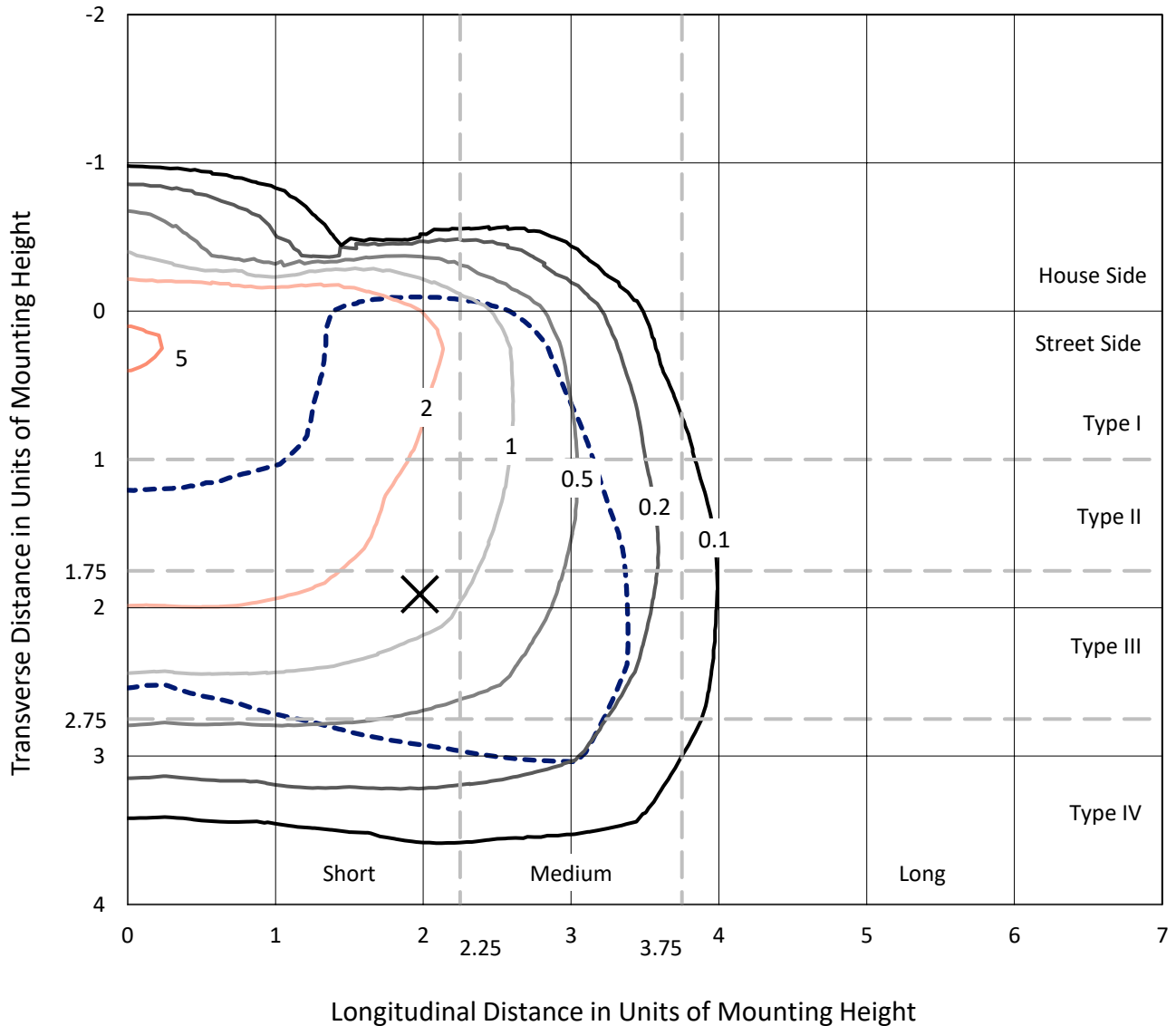
Lumens per Lamp: N/A
Luminaire Lumens: 35991.4 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.5
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

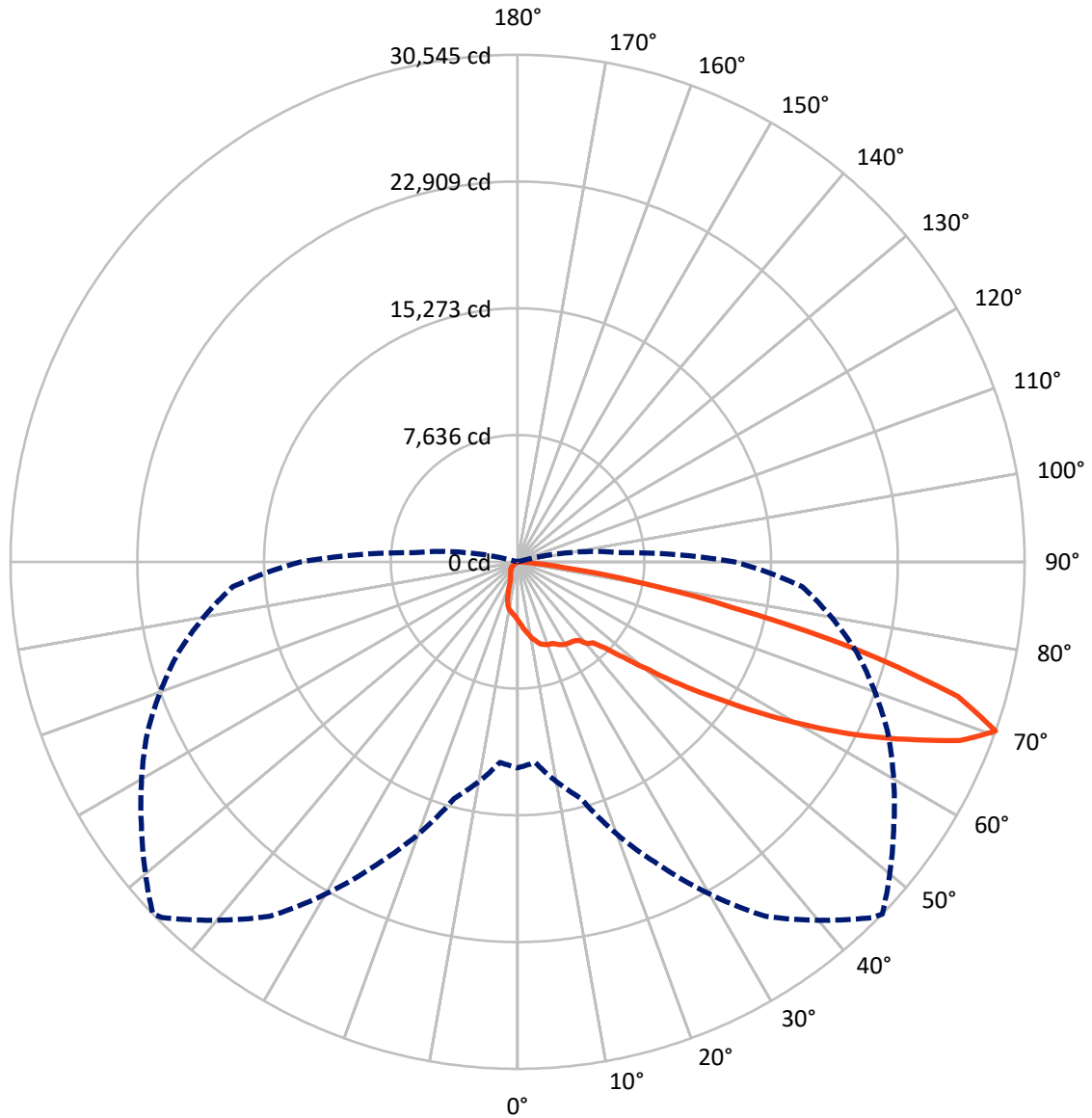
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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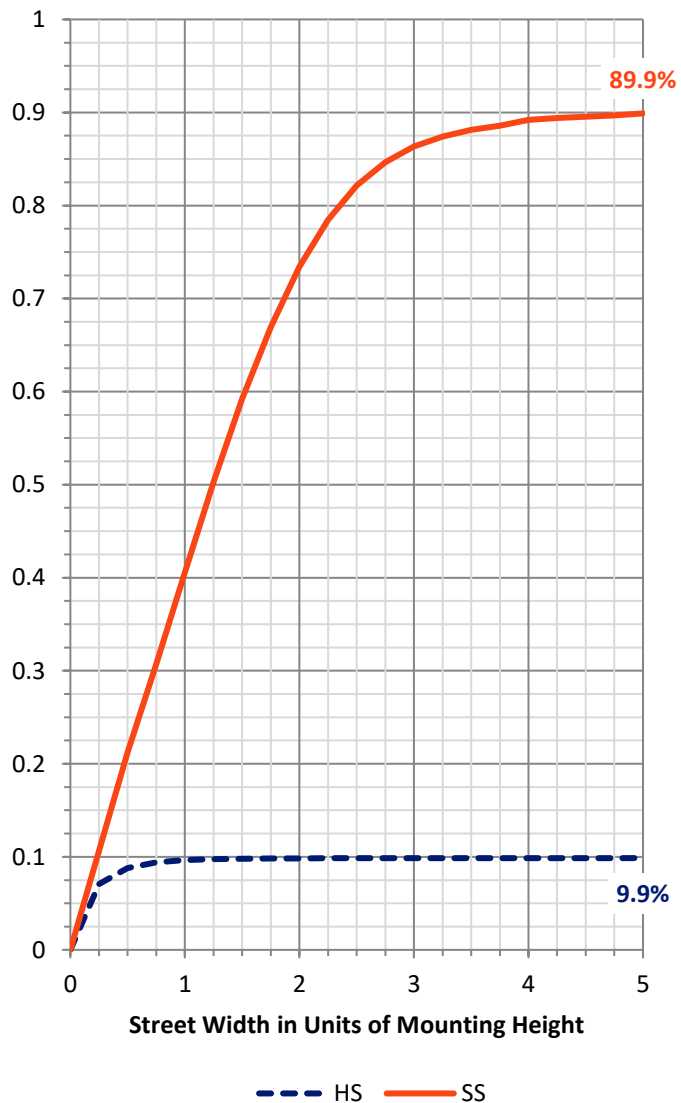
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3581.2	0.0	3581.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	32410.1	0.0	32410.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	35991.4	0.0	35991.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.3	1.0
10°-20°	1063.9	3.0
20°-30°	1704.2	4.7
30°-40°	2432.5	6.8
40°-50°	4200.3	11.7
50°-60°	8041.8	22.3
60°-70°	11908.6	33.1
70°-80°	5898.2	16.4
80°-90°	389.7	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°	35991.4	100.0
0°-180°	35991.4	100.0

Coefficient of Utilization

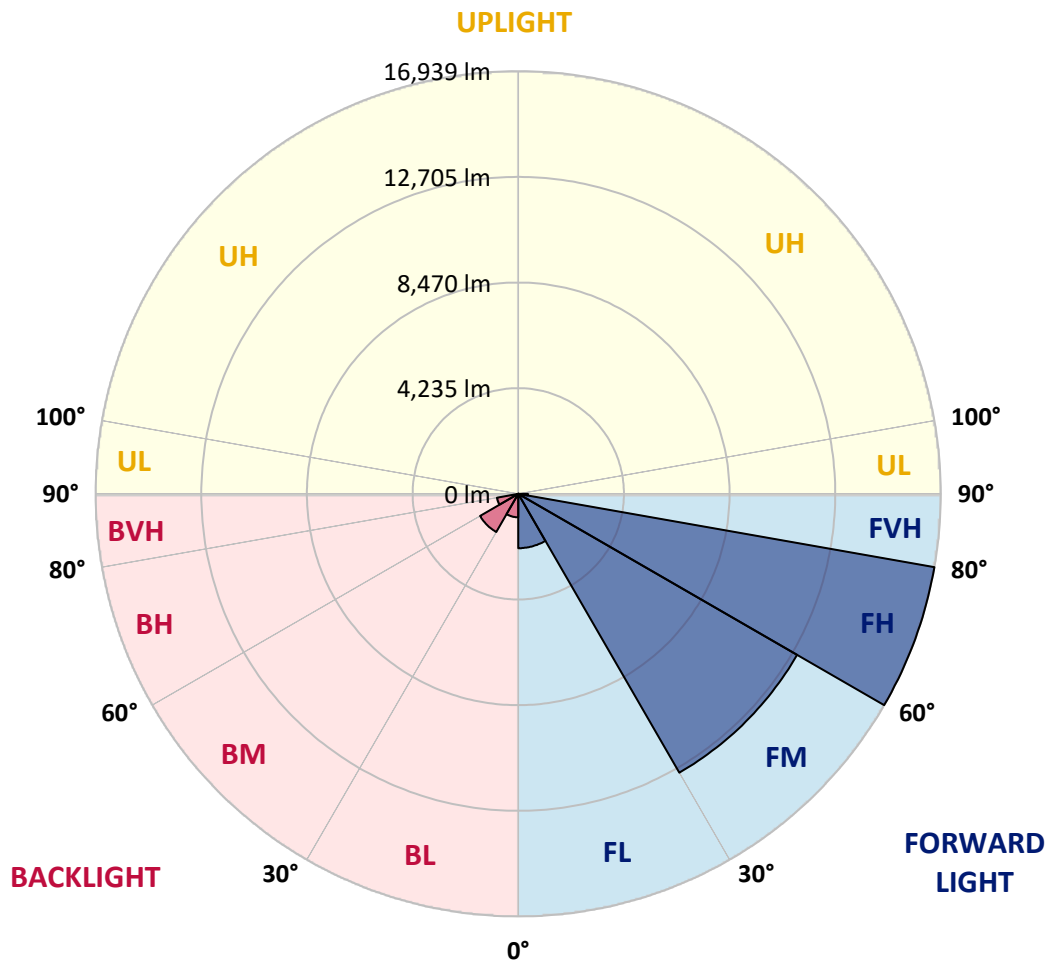


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.5	6.1			
FM (30°-60°)	12906.4	35.9			
FH (60°-80°)	16939.4	47.1			G5
FVH (80°-90°)	384.8	1.1			G3/500
BL (0°-30°)	940.9	2.6	B2/1000		
BM (30°-60°)	1768.1	4.9	B2/2500		
BH (60°-80°)	867.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2
2.5°	3942.5	3916.6	3875.2	3859.6	3818.2	3797.4	3766.4	3750.8	3693.8	3636.8
5°	4424.3	4362.1	4382.9	4320.7	4186.0	4077.2	4072.0	3952.9	3823.4	3719.7
7.5°	4911.3	4859.5	4781.8	4693.7	4543.5	4382.9	4336.2	4222.3	4040.9	3859.6
10°	5279.1	5242.9	5175.5	5051.2	4843.9	4662.6	4667.8	4476.1	4284.4	4077.2
12.5°	5507.1	5522.6	5424.2	5299.9	5118.5	4890.6	4885.4	4755.9	4538.3	4320.7
15°	5735.0	5792.0	5641.8	5496.7	5263.6	5097.8	5128.9	4973.5	4761.1	4512.4
17.5°	5771.3	5786.8	5755.8	5543.3	5372.4	5232.5	5237.7	5134.1	4973.5	4704.1
20°	5709.1	5698.8	5662.5	5507.1	5393.1	5310.2	5315.4	5289.5	5201.4	4983.8
22.5°	5527.8	5527.8	5481.2	5377.6	5325.8	5403.5	5341.3	5439.7	5346.5	5217.0
25°	5382.7	5439.7	5413.8	5346.5	5367.2	5470.8	5501.9	5595.2	5579.6	5419.0
27.5°	5538.2	5470.8	5486.4	5408.6	5486.4	5641.8	5657.3	5724.7	5719.5	5590.0
30°	5641.8	5703.9	5584.8	5413.8	5496.7	5760.9	5750.6	5838.6	5880.1	5724.7
32.5°	5973.3	5921.5	5823.1	5595.2	5605.5	5755.8	5802.4	5916.4	5942.3	5849.0
35°	6652.0	6574.3	6144.3	5802.4	5750.6	5823.1	5854.2	6077.0	6123.6	6020.0
37.5°	7698.5	7522.4	7004.3	6247.9	6014.8	5999.2	5999.2	6294.5	6470.7	6232.4
40°	9195.7	8947.1	8387.5	7071.6	6361.9	6424.1	6486.2	6646.8	6626.1	6470.7
42.5°	11102.2	10910.5	10304.4	8454.9	7025.0	6714.2	6662.4	6880.0	7206.3	7144.2
45°	12692.7	12703.1	12314.5	10351.0	8170.0	7382.5	7418.8	7584.5	8133.7	8087.1
47.5°	13853.2	13708.1	13651.1	12179.8	9838.1	8651.8	8600.0	8713.9	9428.9	9724.2
50°	14910.0	14811.6	14676.9	13956.8	11843.1	10242.2	10190.4	10200.8	11293.9	11708.4
52.5°	16220.8	16345.1	15899.6	15459.2	14438.6	12309.3	12252.3	12050.3	13407.6	13977.5
55°	17837.1	17604.0	17101.5	17329.4	16920.2	14542.2	14438.6	14200.3	15816.7	16055.0
57.5°	18194.6	18018.5	18536.5	19344.7	19738.4	17163.6	17122.2	16692.2	17842.3	17624.7
60°	19085.7	19132.3	19852.4	21458.4	22142.3	20189.2	19987.1	19230.7	19805.8	19847.2
62.5°	20002.7	19893.9	21505.1	23048.9	24100.6	23054.1	22986.7	21484.3	22137.1	21608.7
65°	19329.2	19495.0	21800.4	24385.5	26639.1	25856.8	25799.9	23655.1	24012.5	23354.6
67.5°	16935.7	16598.9	19826.5	23774.2	27944.7	28794.3	28732.1	26022.6	25069.4	23344.2
70°	12412.9	12122.8	14754.6	20132.2	26074.4	30296.7	30545.4	27670.1	24639.4	21168.3
72.5°	6082.1	6087.3	8268.4	13651.1	20629.5	27613.1	27737.4	25369.9	21168.3	15604.3
75°	1797.7	1818.4	3061.8	6693.5	13335.1	20971.5	21111.3	19256.6	14671.7	8061.2
77.5°	657.9	657.9	1015.4	2512.6	6652.0	13236.7	13226.3	11822.3	7429.1	2730.2
80°	341.9	357.5	528.4	1025.8	2880.5	6895.5	7154.5	5786.8	2823.5	1150.1
82.5°	139.9	155.4	290.1	528.4	1383.2	2419.4	2647.3	2269.1	1227.8	803.0
85°	41.4	46.6	139.9	295.3	544.0	606.1	673.5	761.6	771.9	621.7
87.5°	5.2	5.2	57.0	98.4	119.2	129.5	150.2	150.2	393.7	435.2
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°
3533.2	0°	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2
3600.6	2.5°	3559.1	3533.2	3491.8	3398.5	3377.8	3310.5	3305.3	3243.1	3263.8	3222.4
3579.9	5°	3533.2	3476.2	3362.3	3289.7	3217.2	3170.6	3139.5	3113.6	3108.4	3087.7
3673.1	7.5°	3579.9	3502.1	3326.0	3212.0	3087.7	3046.2	2978.9	2973.7	2937.5	2901.2
3823.4	10°	3735.3	3595.4	3403.7	3212.0	3051.4	2916.7	2761.3	2647.3	2605.9	2512.6
4020.2	12.5°	3859.6	3735.3	3455.5	3258.7	3015.2	2709.5	2367.6	2103.4	1979.0	1859.9
4180.8	15°	4035.8	3854.4	3554.0	3269.0	2875.3	2346.9	1787.3	1492.0	1378.1	1352.2
4419.1	17.5°	4227.4	4035.8	3678.3	3243.1	2590.3	1813.2	1315.9	1144.9	1165.7	1196.7
4595.3	20°	4439.9	4206.7	3771.5	3155.0	2139.6	1315.9	1077.6	1072.4	1103.5	1150.1
4895.8	22.5°	4662.6	4460.6	3885.5	2890.8	1595.7	1056.9	1036.1	1036.1	1056.9	1113.8
5103.0	25°	4911.3	4641.9	3942.5	2481.6	1144.9	974.0	984.3	1005.1	1015.4	1062.0
5289.5	27.5°	5103.0	4843.9	3958.1	1989.4	932.5	901.4	927.3	953.2	968.8	1005.1
5465.6	30°	5279.1	5097.8	3875.2	1481.7	854.8	839.3	849.6	885.9	917.0	948.1
5636.6	32.5°	5501.9	5242.9	3683.5	1051.7	808.2	782.3	777.1	792.6	828.9	865.2
5817.9	35°	5729.8	5486.4	3377.8	844.5	766.7	730.5	709.8	694.2	709.8	735.7
6087.3	37.5°	6061.4	5854.2	2994.4	777.1	735.7	683.9	642.4	606.1	580.2	575.1
6439.6	40°	6532.9	6268.6	2502.3	730.5	699.4	637.2	575.1	512.9	455.9	419.6
7123.5	42.5°	7247.8	6880.0	1968.7	704.6	673.5	585.4	497.3	409.3	336.7	300.5
8081.9	45°	8268.4	7688.2	1445.4	678.7	642.4	523.3	409.3	305.7	233.1	212.4
9858.9	47.5°	9807.1	8662.1	1036.1	637.2	601.0	455.9	321.2	217.6	171.0	160.6
12039.9	50°	11817.2	9817.4	808.2	590.6	549.2	383.4	238.3	160.6	134.7	129.5
14371.2	52.5°	13925.7	10983.1	709.8	549.2	471.4	305.7	176.1	129.5	114.0	108.8
16469.4	55°	15728.6	11734.3	616.5	487.0	378.2	228.0	139.9	114.0	98.4	82.9
18795.6	57.5°	17552.2	12112.5	487.0	404.1	279.8	171.0	119.2	98.4	82.9	67.3
21095.8	60°	19033.9	12381.9	347.1	300.5	196.9	134.7	103.6	88.1	67.3	51.8
23261.3	62.5°	20007.8	11609.9	253.9	228.0	145.1	114.0	88.1	72.5	51.8	36.3
24142.0	65°	19526.0	10542.7	196.9	160.6	108.8	88.1	72.5	51.8	36.3	20.7
22313.3	67.5°	17521.1	8589.6	160.6	119.2	82.9	67.3	57.0	41.4	20.7	5.2
17215.4	70°	13070.9	6294.5	129.5	88.1	67.3	51.8	41.4	25.9	10.4	5.2
9750.1	72.5°	7149.4	3445.2	103.6	72.5	51.8	41.4	31.1	20.7	10.4	0.0
3326.0	75°	2362.4	917.0	77.7	51.8	31.1	25.9	20.7	15.5	5.2	0.0
777.1	77.5°	569.9	238.3	62.2	46.6	25.9	15.5	10.4	5.2	5.2	0.0
228.0	80°	176.1	98.4	46.6	31.1	20.7	15.5	5.2	0.0	0.0	0.0
103.6	82.5°	72.5	46.6	20.7	20.7	15.5	5.2	0.0	0.0	0.0	0.0
46.6	85°	36.3	25.9	15.5	10.4	10.4	5.2	0.0	0.0	0.0	0.0
25.9	87.5°	25.9	10.4	5.2	5.2	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°
3533.2
3206.9
3077.3
2901.2
2523.0
1906.5
1347.0
1191.6
1160.5
1103.5
1067.2
1020.6
948.1
865.2
756.4
590.6
424.8
300.5
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165.8
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