

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: P575214

Luminaire Tested: **EPH-VN-08-735-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575214
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

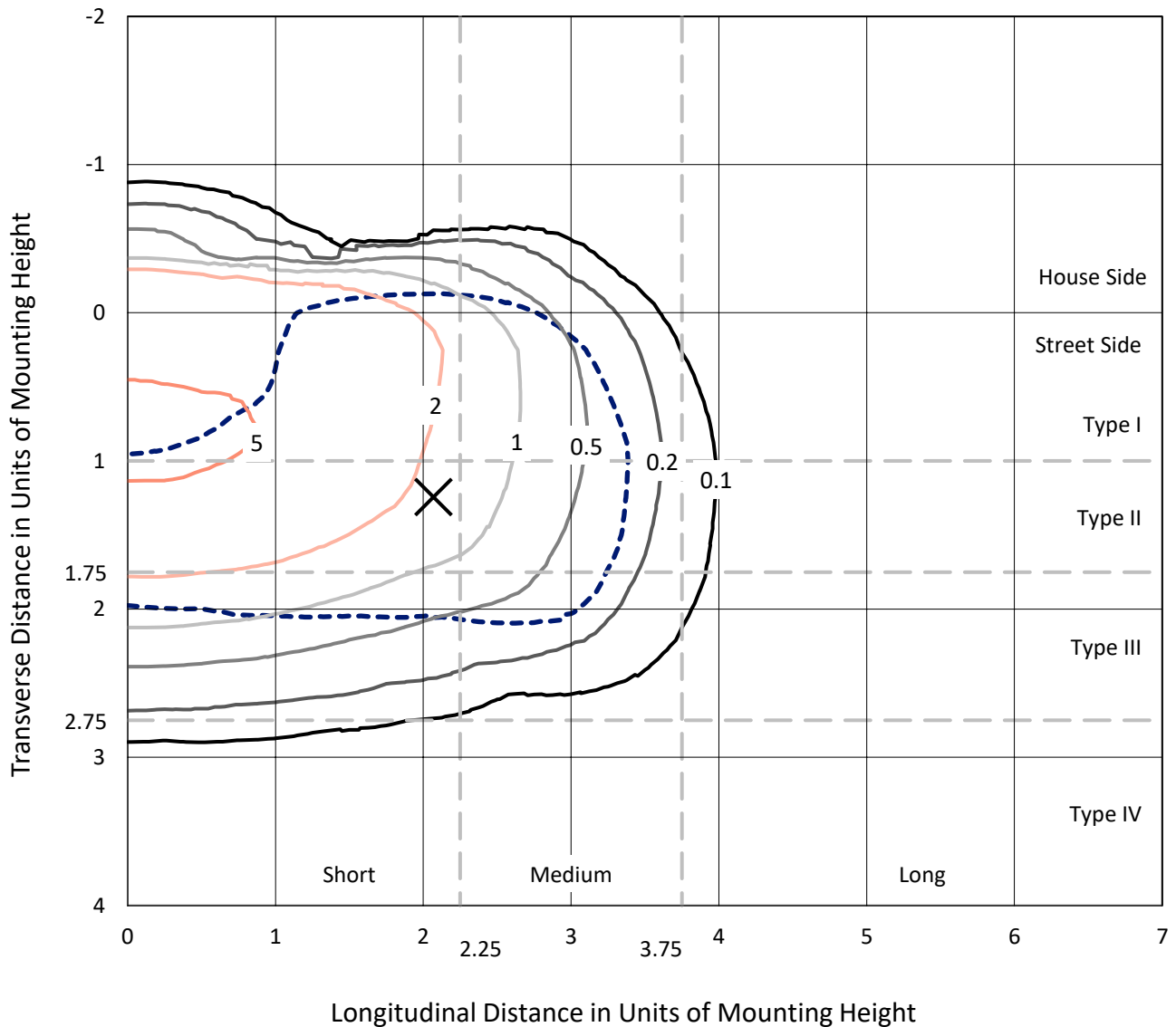
Lumens per Lamp: N/A
Luminaire Lumens: 35254.8 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

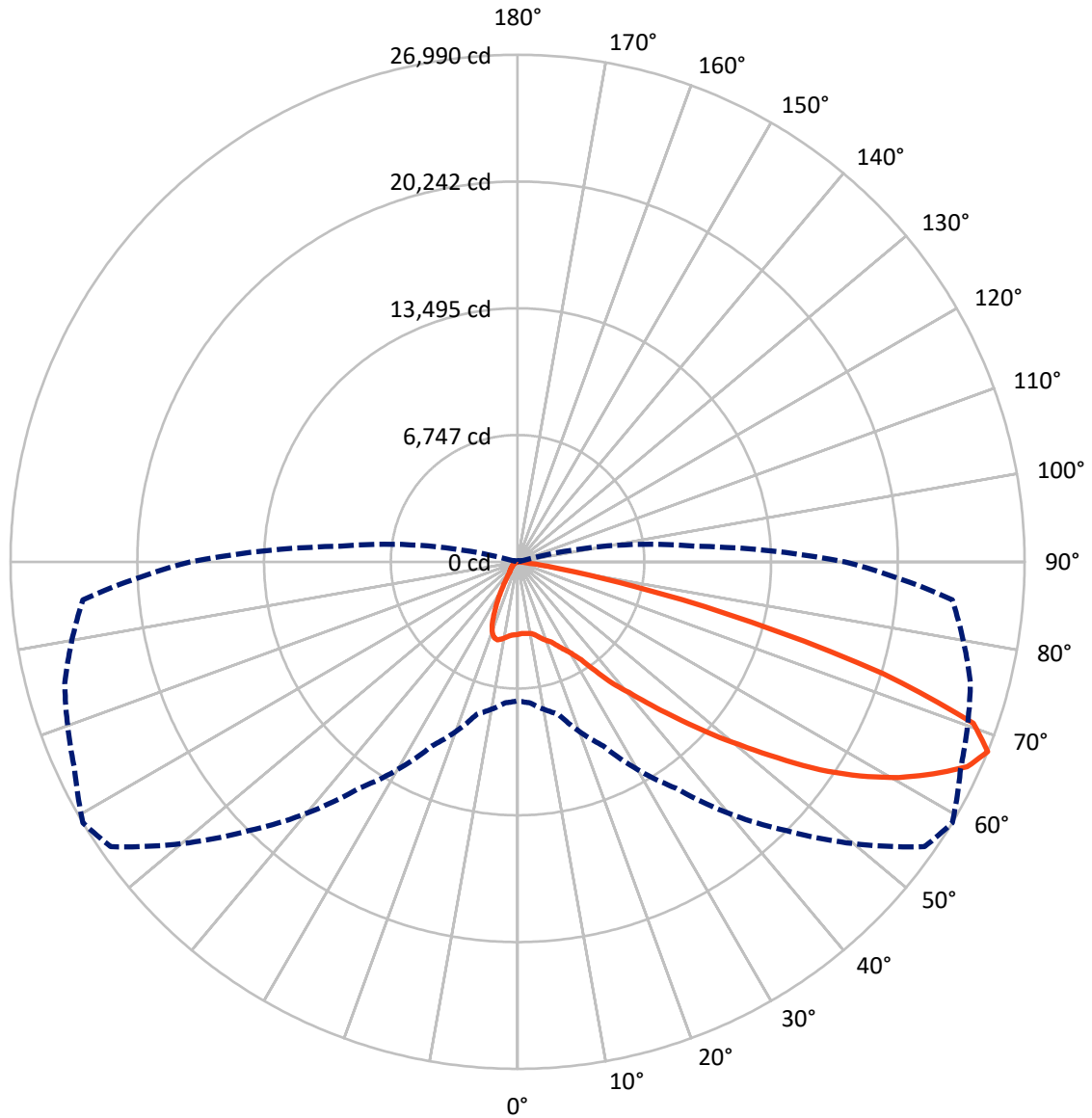
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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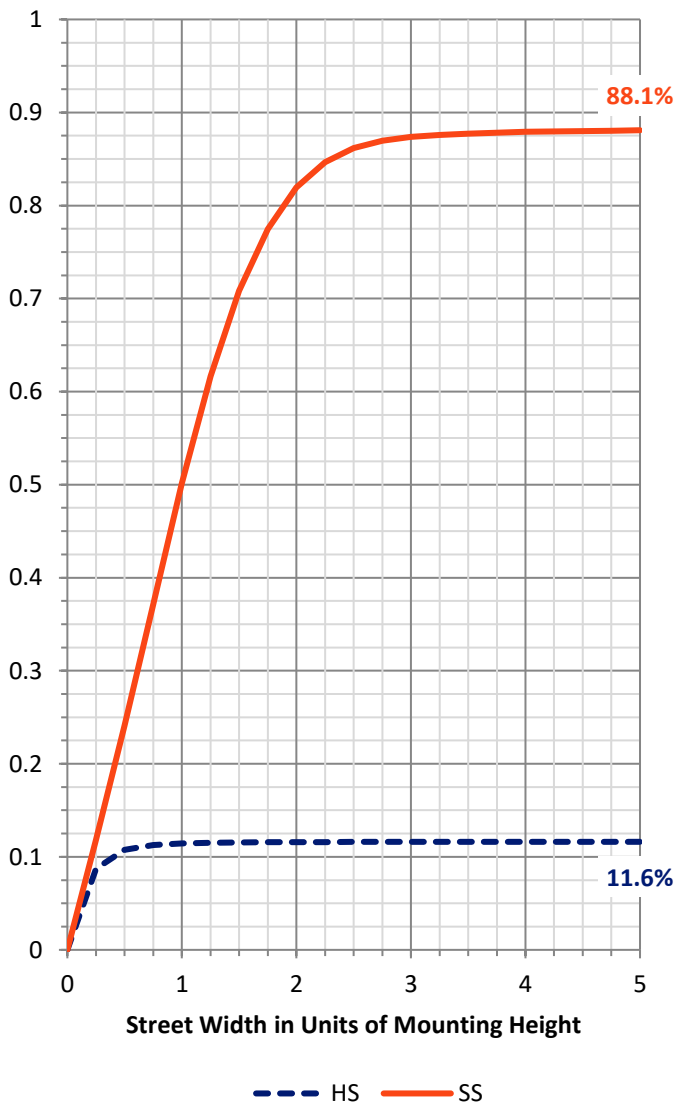
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4141.3	0.0	4141.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	31113.5	0.0	31113.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	35254.8	0.0	35254.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	1.0
10°-20°	1061.0	3.0
20°-30°	1854.4	5.3
30°-40°	3264.8	9.3
40°-50°	5771.2	16.4
50°-60°	9137.8	25.9
60°-70°	10136.4	28.8
70°-80°	3517.1	10.0
80°-90°	144.8	0.4
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°	35254.8	100.0
0°-180°	35254.8	100.0

Coefficient of Utilization



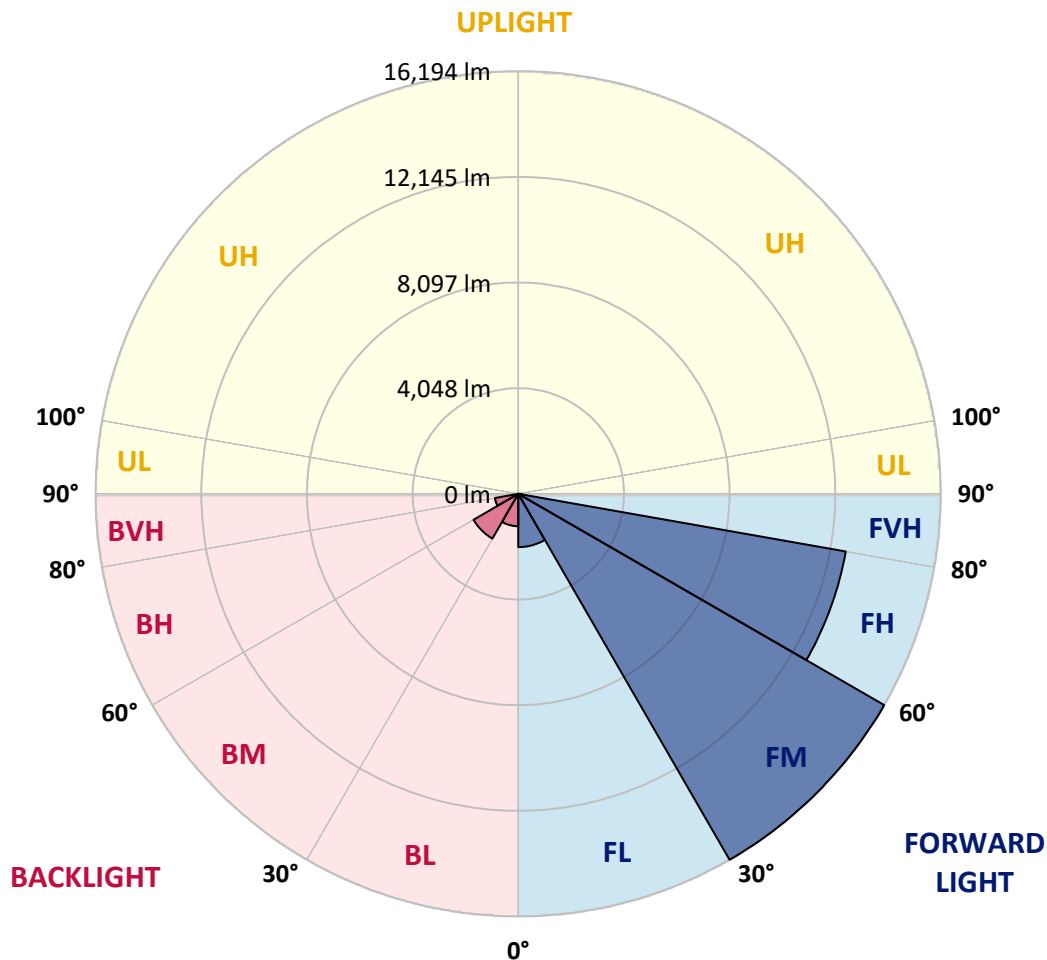
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.5	5.8			
FM (30°-60°)	16193.8	45.9			
FH (60°-80°)	12742.7	36.1			G5
FVH (80°-90°)	135.5	0.4			G2/225
BL (0°-30°)	1241.2	3.5	B3/2500		
BM (30°-60°)	1980.0	5.6	B2/2500		
BH (60°-80°)	910.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8
2.5°	3754.8	3701.2	3749.9	3754.8	3759.7	3803.5	3852.2	3818.1	3813.2	3852.2
5°	3603.8	3579.5	3637.9	3667.1	3715.8	3754.8	3832.7	3837.6	3842.5	3886.3
7.5°	3540.5	3482.1	3550.3	3584.4	3618.4	3711.0	3803.5	3852.2	3920.4	3974.0
10°	3413.9	3457.7	3477.2	3535.7	3633.1	3740.2	3852.2	3876.6	4027.5	4071.4
12.5°	3457.7	3487.0	3525.9	3540.5	3647.7	3808.4	3959.3	3969.1	4124.9	4314.9
15°	3569.7	3550.3	3564.9	3584.4	3711.0	3842.5	4086.0	4129.8	4275.9	4490.2
17.5°	3808.4	3774.3	3749.9	3745.1	3774.3	3896.0	4183.4	4314.9	4451.2	4743.4
20°	4407.4	4378.2	4280.8	4027.5	3939.9	3988.6	4300.2	4485.3	4675.2	5001.5
22.5°	5318.1	5347.3	5118.4	4762.9	4397.6	4207.7	4485.3	4646.0	4948.0	5361.9
25°	6394.4	6335.9	6058.3	5644.4	5069.7	4621.7	4782.4	4962.6	5332.7	5673.6
27.5°	7236.9	7168.7	6954.4	6452.8	5956.1	5230.4	5172.0	5284.0	5722.3	6029.1
30°	8069.7	8094.0	7947.9	7353.8	6740.1	5975.5	5605.4	5654.1	5990.2	6384.6
32.5°	9131.3	9072.9	8990.1	8469.0	7743.4	6925.2	6292.1	6214.2	6360.3	6881.4
35°	10119.9	10085.9	9973.8	9447.9	8814.8	7923.6	7305.1	7129.7	7095.7	7675.2
37.5°	10981.9	10923.5	10753.1	10417.0	9803.4	9053.4	8376.5	8220.6	8215.8	8615.1
40°	11707.6	11751.4	11731.9	11361.8	11025.8	10426.8	9389.4	9141.1	9121.6	9335.9
42.5°	12647.5	12749.8	12696.2	12623.1	12218.9	11985.2	10811.5	10431.6	10261.2	10699.5
45°	14069.6	14108.5	14142.6	13962.4	13558.2	13606.9	12282.2	11829.3	11785.5	12438.1
47.5°	15399.1	15296.8	15535.4	15545.2	15525.7	15301.7	13869.9	13533.8	13592.3	14089.0
50°	15730.2	15993.2	16650.7	16772.4	17089.0	17293.5	15632.8	15296.8	15394.2	15959.1
52.5°	15988.3	16387.7	17045.1	17936.4	18788.6	19275.6	17605.2	17332.5	17327.6	17673.4
55°	16441.3	16684.8	17254.6	18481.8	20103.5	20902.2	19981.8	19543.5	19149.0	19392.5
57.5°	16397.4	16490.0	17376.3	18890.9	21145.7	22597.0	21934.7	21515.8	21009.4	20868.1
60°	15628.0	15847.1	16840.6	18613.3	21788.6	23916.8	23756.1	23327.5	22455.8	22124.6
62.5°	14103.6	14395.8	15175.1	17639.3	20853.5	23985.0	25012.5	24851.8	23877.8	23283.7
65°	11430.0	11566.3	12462.4	15165.3	18739.9	22937.9	26497.9	26298.2	25402.1	24515.8
67.5°	7402.5	7534.0	8396.0	10826.1	14717.3	20235.0	26439.5	26989.8	26020.6	24954.1
70°	3496.7	3462.6	4266.2	6014.5	9428.4	15452.6	24652.2	25738.2	24915.1	22621.3
72.5°	1066.5	1159.1	1772.7	2663.9	4840.8	9637.8	19324.3	20342.2	20084.1	18072.7
75°	472.4	511.4	696.4	1090.9	1962.6	3954.5	11936.5	12842.3	12730.3	10660.5
77.5°	301.9	331.2	438.3	623.4	891.2	1256.5	5498.3	6379.8	6185.0	3745.1
80°	214.3	228.9	311.7	428.6	560.1	516.2	1894.4	2250.0	2157.4	1017.8
82.5°	116.9	126.6	228.9	316.6	375.0	263.0	530.8	662.3	691.5	452.9
85°	43.8	53.6	141.2	224.0	194.8	121.8	155.8	189.9	248.4	248.4
87.5°	0.0	4.9	58.4	97.4	48.7	34.1	43.8	53.6	68.2	116.9
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°
3866.8	0°	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8	3866.8
3886.3	2.5°	3910.6	3876.6	3891.2	3915.5	3861.9	3891.2	3832.7	3876.6	3891.2	3832.7
3944.7	5°	3959.3	3993.4	3974.0	3935.0	3900.9	3910.6	3896.0	3861.9	3891.2	3900.9
4032.4	7.5°	4100.6	4061.6	4071.4	4027.5	3959.3	3954.5	3861.9	3837.6	3847.3	3857.1
4212.6	10°	4232.1	4256.4	4207.7	4173.6	4061.6	3988.6	3861.9	3725.6	3711.0	3652.5
4387.9	12.5°	4465.8	4407.4	4387.9	4275.9	4163.9	3920.4	3647.7	3438.2	3262.9	3199.6
4670.4	15°	4660.6	4650.9	4616.8	4446.3	4188.2	3745.1	3228.8	2741.8	2405.8	2196.4
4836.0	17.5°	4928.5	4884.7	4821.3	4553.5	4008.0	3287.3	2405.8	1792.2	1456.1	1324.7
5152.5	20°	5133.0	5098.9	5011.3	4529.1	3681.8	2449.6	1490.2	1139.6	1056.8	1032.4
5498.3	22.5°	5430.1	5323.0	5157.4	4407.4	3087.6	1631.5	1071.4	1017.8	1003.2	983.7
5727.2	25°	5688.2	5590.8	5245.0	4198.0	2201.3	1081.1	993.5	964.3	939.9	915.6
5970.7	27.5°	5917.1	5795.4	5337.6	3769.4	1378.2	930.2	920.4	886.3	837.6	798.7
6253.1	30°	6141.1	5999.9	5361.9	2965.9	930.2	842.5	818.2	764.6	701.3	647.7
6725.5	32.5°	6516.1	6345.7	5327.8	2118.5	803.6	750.0	696.4	633.1	540.6	496.7
7402.5	35°	7100.5	6842.4	5284.0	1246.7	720.8	662.3	579.5	496.7	428.6	384.7
8089.1	37.5°	7772.6	7324.5	5157.4	832.8	662.3	584.4	477.3	394.5	336.0	301.9
9029.1	40°	8770.9	8030.7	4670.4	681.8	589.3	496.7	384.7	311.7	267.9	243.5
10421.9	42.5°	9871.6	8839.1	3920.4	613.6	521.1	423.7	306.8	253.2	219.2	194.8
11814.7	45°	11191.4	9681.6	3024.3	560.1	462.7	350.6	253.2	204.5	175.3	155.8
13446.2	47.5°	12662.1	10446.2	2040.5	506.5	389.6	287.3	209.4	155.8	126.6	112.0
15223.8	50°	13977.0	11123.2	1300.3	443.2	340.9	238.6	170.5	126.6	102.3	82.8
16660.4	52.5°	15170.2	11639.4	896.1	389.6	292.2	194.8	141.2	102.3	77.9	63.3
18150.6	55°	16392.6	11902.4	662.3	336.0	253.2	165.6	116.9	92.5	68.2	53.6
19864.9	57.5°	17395.8	12014.4	506.5	292.2	214.3	131.5	102.3	77.9	58.4	43.8
21179.8	60°	18252.9	11960.8	394.5	243.5	170.5	112.0	87.7	63.3	48.7	34.1
22894.1	62.5°	18754.5	11639.4	311.7	209.4	136.4	97.4	73.1	53.6	34.1	24.4
23775.5	65°	18764.3	10957.6	243.5	155.8	102.3	82.8	63.3	43.8	24.4	9.7
23225.2	67.5°	17420.1	9482.0	194.8	121.8	82.8	63.3	48.7	34.1	9.7	0.0
19290.2	70°	13626.4	7173.6	160.7	97.4	68.2	53.6	34.1	19.5	4.9	0.0
12876.4	72.5°	8683.3	4295.4	131.5	77.9	58.4	39.0	24.4	14.6	0.0	0.0
5878.1	75°	3633.1	1324.7	102.3	68.2	43.8	29.2	19.5	4.9	0.0	0.0
1538.9	77.5°	935.0	418.8	82.8	58.4	43.8	24.4	14.6	4.9	0.0	0.0
414.0	80°	277.6	155.8	68.2	48.7	34.1	19.5	9.7	4.9	0.0	0.0
199.7	82.5°	126.6	92.5	58.4	43.8	29.2	19.5	9.7	0.0	0.0	0.0
92.5	85°	48.7	29.2	29.2	24.4	24.4	14.6	4.9	0.0	0.0	0.0
34.1	87.5°	19.5	9.7	9.7	9.7	4.9	4.9	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°
3866.8
3861.9
3881.4
3823.0
3701.2
3136.3
2167.2
1276.0
1037.3
988.6
910.7
784.1
638.0
487.0
375.0
292.2
233.8
194.8
146.1
112.0
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