

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: P575208

Luminaire Tested: **EPH-VN-08-730-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575208
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

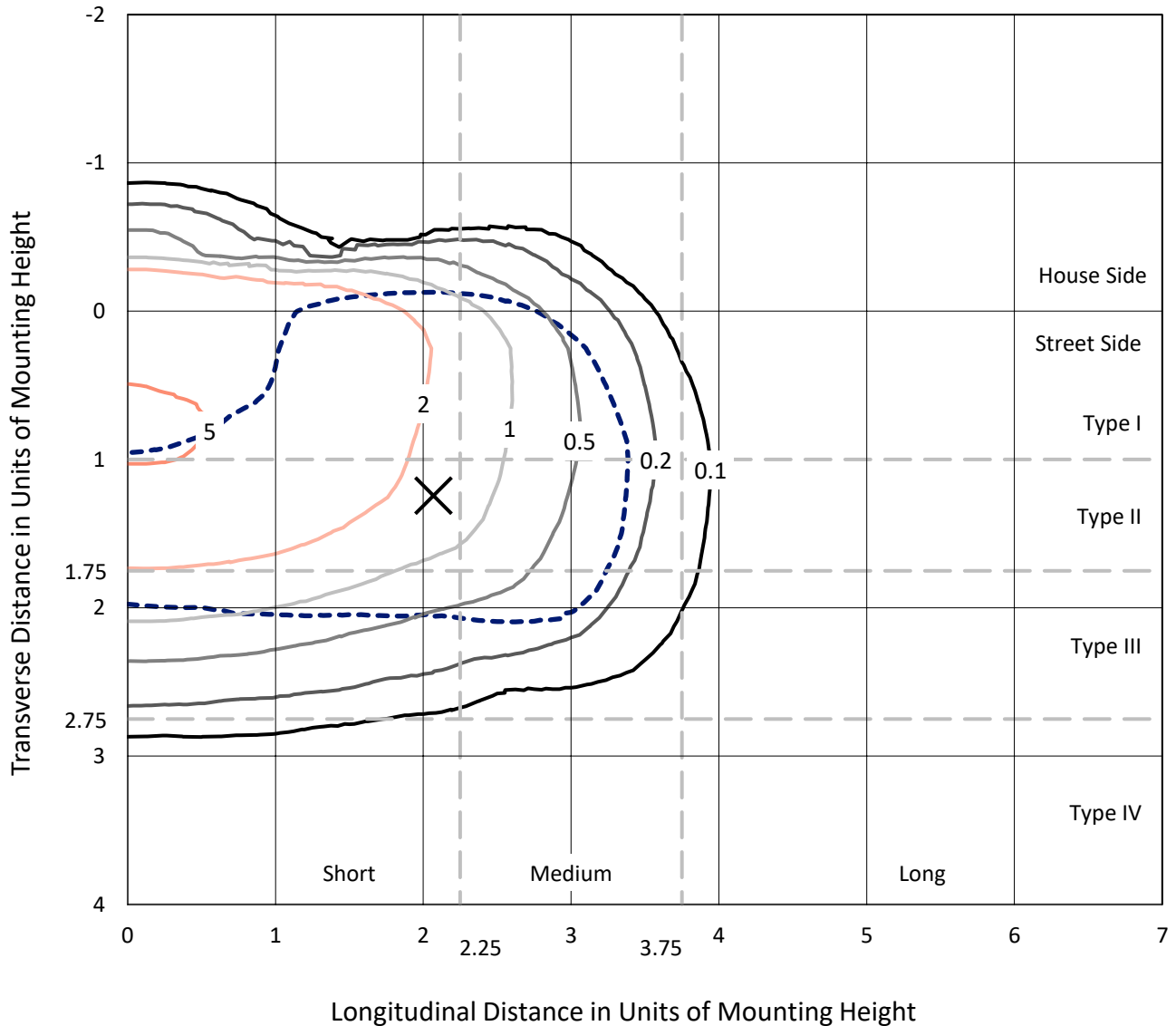
Lumens per Lamp: N/A
Luminaire Lumens: 32548.9 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

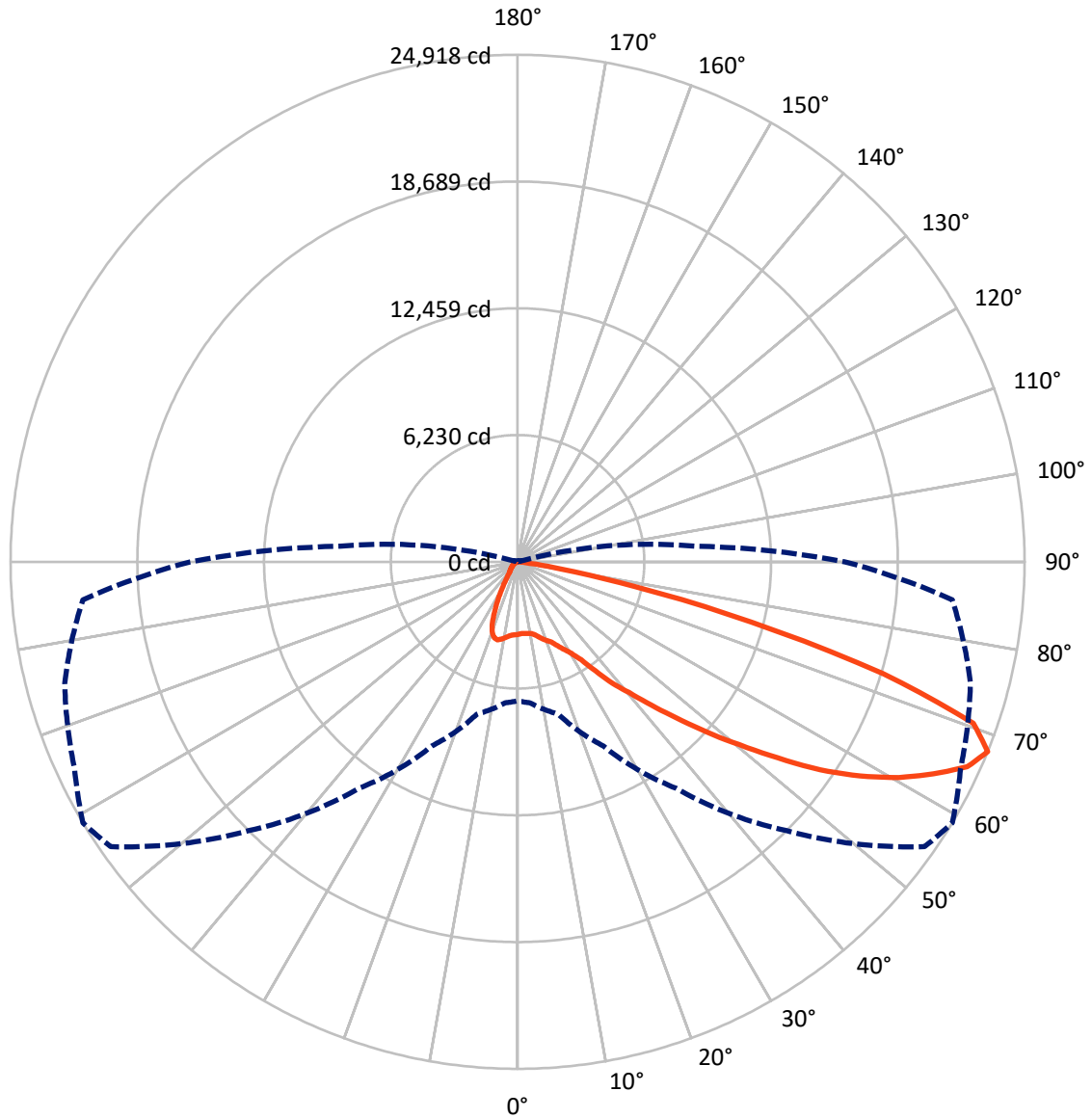
✕ Max cd
 - - - 1/2 Max cd



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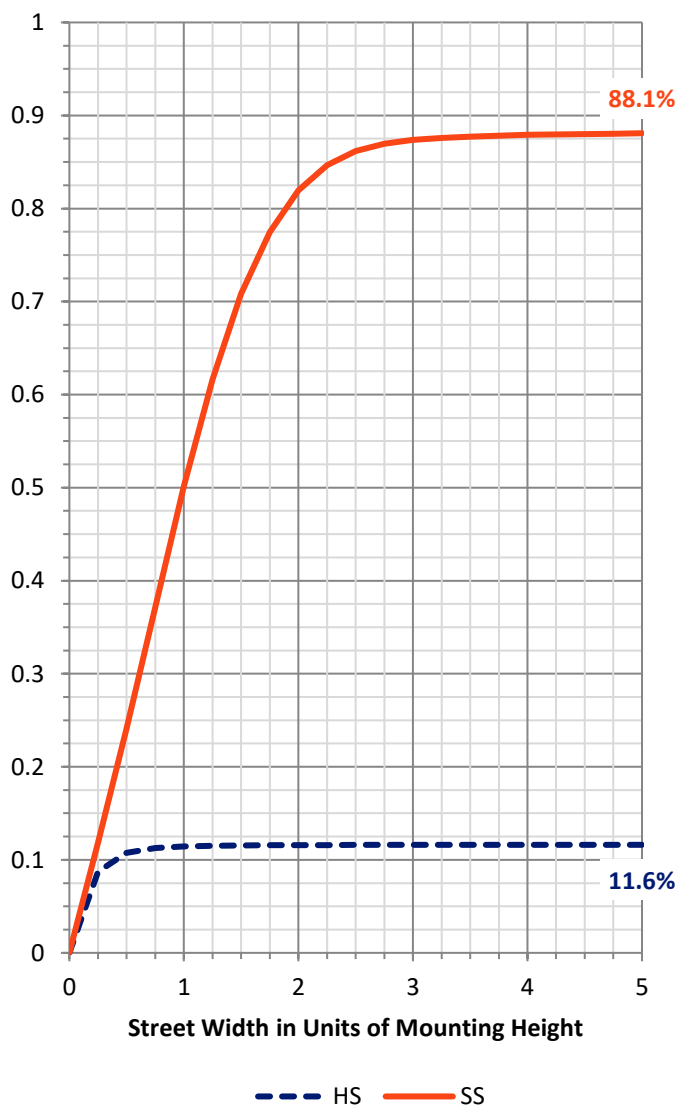
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3823.4	0.0	3823.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	28725.5	0.0	28725.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	32548.9	0.0	32548.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.1	1.0
10°-20°	979.6	3.0
20°-30°	1712.0	5.3
30°-40°	3014.2	9.3
40°-50°	5328.2	16.4
50°-60°	8436.5	25.9
60°-70°	9358.4	28.8
70°-80°	3247.1	10.0
80°-90°	133.7	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°	32548.9	100.0
0°-180°	32548.9	100.0

Coefficient of Utilization

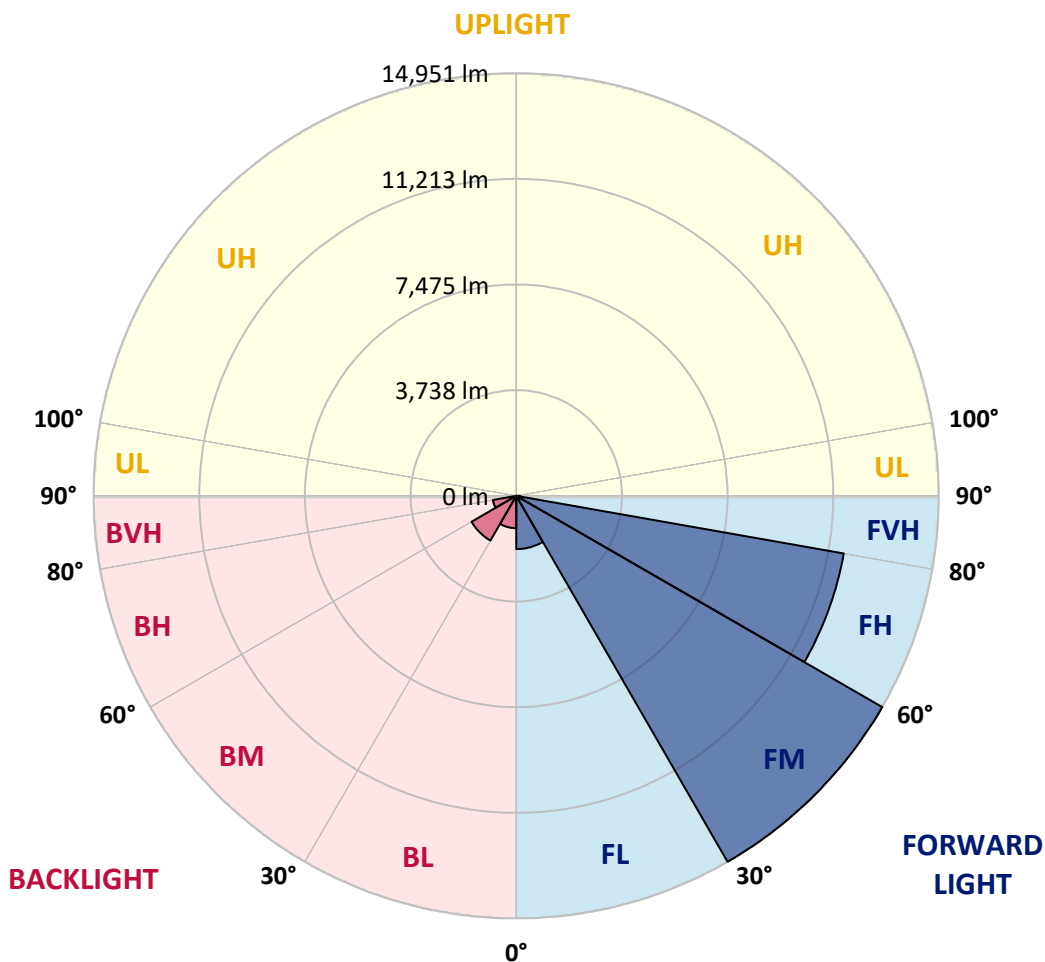


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1884.8	5.8			
FM (30°-60°)	14950.9	45.9			
FH (60°-80°)	11764.7	36.1			G4/12000
FVH (80°-90°)	125.1	0.4			G2/225
BL (0°-30°)	1145.9	3.5	B3/2500		
BM (30°-60°)	1828.0	5.6	B2/2500		
BH (60°-80°)	840.8	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.7	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0
2.5°	3466.6	3417.2	3462.1	3466.6	3471.1	3511.6	3556.5	3525.1	3520.6	3556.5
5°	3327.2	3304.8	3358.7	3385.7	3430.6	3466.6	3538.6	3543.1	3547.5	3588.0
7.5°	3268.8	3214.8	3277.8	3309.2	3340.7	3426.1	3511.6	3556.5	3619.5	3668.9
10°	3151.9	3192.3	3210.3	3264.3	3354.2	3453.1	3556.5	3579.0	3718.4	3758.9
12.5°	3192.3	3219.3	3255.3	3268.8	3367.7	3516.1	3655.5	3664.5	3808.3	3983.7
15°	3295.8	3277.8	3291.3	3309.2	3426.1	3547.5	3772.4	3812.8	3947.7	4145.6
17.5°	3516.1	3484.6	3462.1	3457.6	3484.6	3597.0	3862.3	3983.7	4109.6	4379.4
20°	4069.1	4042.1	3952.2	3718.4	3637.5	3682.4	3970.2	4141.1	4316.4	4617.7
22.5°	4909.9	4936.9	4725.6	4397.3	4060.1	3884.8	4141.1	4289.4	4568.2	4950.4
25°	5903.6	5849.6	5593.3	5211.2	4680.6	4266.9	4415.3	4581.7	4923.4	5238.1
27.5°	6681.4	6618.5	6420.7	5957.5	5498.9	4829.0	4775.0	4878.4	5283.1	5566.4
30°	7450.3	7472.8	7337.9	6789.4	6222.8	5516.9	5175.2	5220.2	5530.4	5894.6
32.5°	8430.5	8376.5	8300.1	7819.0	7149.1	6393.7	5809.2	5737.2	5872.1	6353.2
35°	9343.2	9311.8	9208.3	8722.7	8138.2	7315.4	6744.4	6582.5	6551.0	7086.1
37.5°	10139.1	10085.1	9927.7	9617.5	9051.0	8358.5	7733.6	7589.7	7585.2	7953.9
40°	10809.0	10849.5	10831.5	10489.8	10179.5	9626.5	8668.8	8439.5	8421.5	8619.3
42.5°	11676.8	11771.2	11721.7	11654.3	11281.1	11065.3	9981.7	9631.0	9473.6	9878.3
45°	12989.7	13025.7	13057.1	12890.8	12517.6	12562.5	11339.6	10921.4	10880.9	11483.4
47.5°	14217.2	14122.7	14343.1	14352.1	14334.1	14127.2	12805.3	12495.1	12549.1	13007.7
50°	14522.9	14765.7	15372.7	15485.1	15777.4	15966.2	14433.0	14122.7	14212.7	14734.2
52.5°	14761.2	15129.9	15736.9	16559.7	17346.6	17796.2	16254.0	16002.2	15997.7	16316.9
55°	15179.4	15404.2	15930.2	17063.3	18560.6	19297.9	18448.2	18043.5	17679.3	17904.1
57.5°	15138.9	15224.3	16042.7	17441.0	19522.8	20862.6	20251.2	19864.5	19396.9	19266.5
60°	14428.5	14630.8	15548.1	17184.7	20116.3	22081.1	21932.8	21537.1	20732.3	20426.5
62.5°	13021.2	13290.9	14010.3	16285.5	19253.0	22144.1	23092.8	22944.4	22045.2	21496.6
65°	10552.7	10678.6	11505.9	14001.4	17301.6	21177.4	24464.1	24279.8	23452.5	22634.2
67.5°	6834.3	6955.7	7751.6	9995.2	13587.7	18682.0	24410.2	24918.3	24023.5	23038.8
70°	3228.3	3196.8	3938.7	5552.9	8704.8	14266.6	22760.1	23762.7	23002.9	20885.1
72.5°	984.7	1070.1	1636.6	2459.5	4469.3	8898.1	17841.2	18780.9	18542.6	16685.6
75°	436.1	472.1	643.0	1007.2	1812.0	3651.0	11020.3	11856.6	11753.2	9842.3
77.5°	278.8	305.7	404.7	575.5	822.8	1160.0	5076.3	5890.1	5710.2	3457.6
80°	197.8	211.3	287.8	395.7	517.1	476.6	1749.0	2077.3	1991.8	939.7
82.5°	107.9	116.9	211.3	292.3	346.2	242.8	490.1	611.5	638.5	418.2
85°	40.5	49.5	130.4	206.8	179.9	112.4	143.9	175.4	229.3	229.3
87.5°	0.0	4.5	54.0	89.9	45.0	31.5	40.5	49.5	62.9	107.9
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°
3570.0	0°	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0	3570.0
3588.0	2.5°	3610.5	3579.0	3592.5	3615.0	3565.5	3592.5	3538.6	3579.0	3592.5	3538.6
3642.0	5°	3655.5	3686.9	3668.9	3633.0	3601.5	3610.5	3597.0	3565.5	3592.5	3601.5
3722.9	7.5°	3785.9	3749.9	3758.9	3718.4	3655.5	3651.0	3565.5	3543.1	3552.0	3561.0
3889.3	10°	3907.2	3929.7	3884.8	3853.3	3749.9	3682.4	3565.5	3439.6	3426.1	3372.2
4051.1	12.5°	4123.1	4069.1	4051.1	3947.7	3844.3	3619.5	3367.7	3174.4	3012.5	2954.0
4311.9	15°	4302.9	4293.9	4262.5	4105.1	3866.8	3457.6	2981.0	2531.4	2221.2	2027.8
4464.8	17.5°	4550.2	4509.7	4451.3	4204.0	3700.4	3035.0	2221.2	1654.6	1344.4	1223.0
4757.0	20°	4739.1	4707.6	4626.7	4181.5	3399.2	2261.6	1375.9	1052.1	975.7	953.2
5076.3	22.5°	5013.3	4914.4	4761.5	4069.1	2850.6	1506.2	989.2	939.7	926.2	908.2
5287.6	25°	5251.6	5161.7	4842.5	3875.8	2032.3	998.2	917.2	890.3	867.8	845.3
5512.4	27.5°	5463.0	5350.5	4927.9	3480.1	1272.4	858.8	849.8	818.3	773.4	737.4
5773.2	30°	5669.8	5539.4	4950.4	2738.2	858.8	777.9	755.4	705.9	647.5	598.0
6209.3	32.5°	6016.0	5858.6	4918.9	1955.9	741.9	692.4	643.0	584.5	499.1	458.6
6834.3	35°	6555.5	6317.2	4878.4	1151.0	665.4	611.5	535.1	458.6	395.7	355.2
7468.3	37.5°	7176.0	6762.4	4761.5	768.9	611.5	539.6	440.6	364.2	310.2	278.8
8336.1	40°	8097.8	7414.3	4311.9	629.5	544.0	458.6	355.2	287.8	247.3	224.8
9622.0	42.5°	9113.9	8160.7	3619.5	566.5	481.1	391.2	283.3	233.8	202.3	179.9
10907.9	45°	10332.4	8938.6	2792.2	517.1	427.1	323.7	233.8	188.8	161.9	143.9
12414.2	47.5°	11690.3	9644.5	1883.9	467.6	359.7	265.3	193.3	143.9	116.9	103.4
14055.3	50°	12904.3	10269.5	1200.5	409.2	314.7	220.3	157.4	116.9	94.4	76.4
15381.7	52.5°	14005.8	10746.1	827.3	359.7	269.8	179.9	130.4	94.4	71.9	58.5
16757.6	55°	15134.4	10988.9	611.5	310.2	233.8	152.9	107.9	85.4	62.9	49.5
18340.2	57.5°	16060.6	11092.3	467.6	269.8	197.8	121.4	94.4	71.9	54.0	40.5
19554.2	60°	16852.0	11042.8	364.2	224.8	157.4	103.4	80.9	58.5	45.0	31.5
21136.9	62.5°	17315.1	10746.1	287.8	193.3	125.9	89.9	67.4	49.5	31.5	22.5
21950.7	65°	17324.1	10116.6	224.8	143.9	94.4	76.4	58.5	40.5	22.5	9.0
21442.7	67.5°	16083.1	8754.2	179.9	112.4	76.4	58.5	45.0	31.5	9.0	0.0
17809.7	70°	12580.5	6623.0	148.4	89.9	62.9	49.5	31.5	18.0	4.5	0.0
11888.1	72.5°	8016.8	3965.7	121.4	71.9	54.0	36.0	22.5	13.5	0.0	0.0
5427.0	75°	3354.2	1223.0	94.4	62.9	40.5	27.0	18.0	4.5	0.0	0.0
1420.8	77.5°	863.3	386.7	76.4	54.0	40.5	22.5	13.5	4.5	0.0	0.0
382.2	80°	256.3	143.9	62.9	45.0	31.5	18.0	9.0	4.5	0.0	0.0
184.3	82.5°	116.9	85.4	54.0	40.5	27.0	18.0	9.0	0.0	0.0	0.0
85.4	85°	45.0	27.0	27.0	22.5	22.5	13.5	4.5	0.0	0.0	0.0
31.5	87.5°	18.0	9.0	9.0	9.0	4.5	4.5	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°
3570.0
3565.5
3583.5
3529.6
3417.2
2895.6
2000.8
1178.0
957.7
912.7
840.8
723.9
589.0
449.6
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215.8
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