

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: P575213

Luminaire Tested: **EPH-VN-07-735-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575213
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

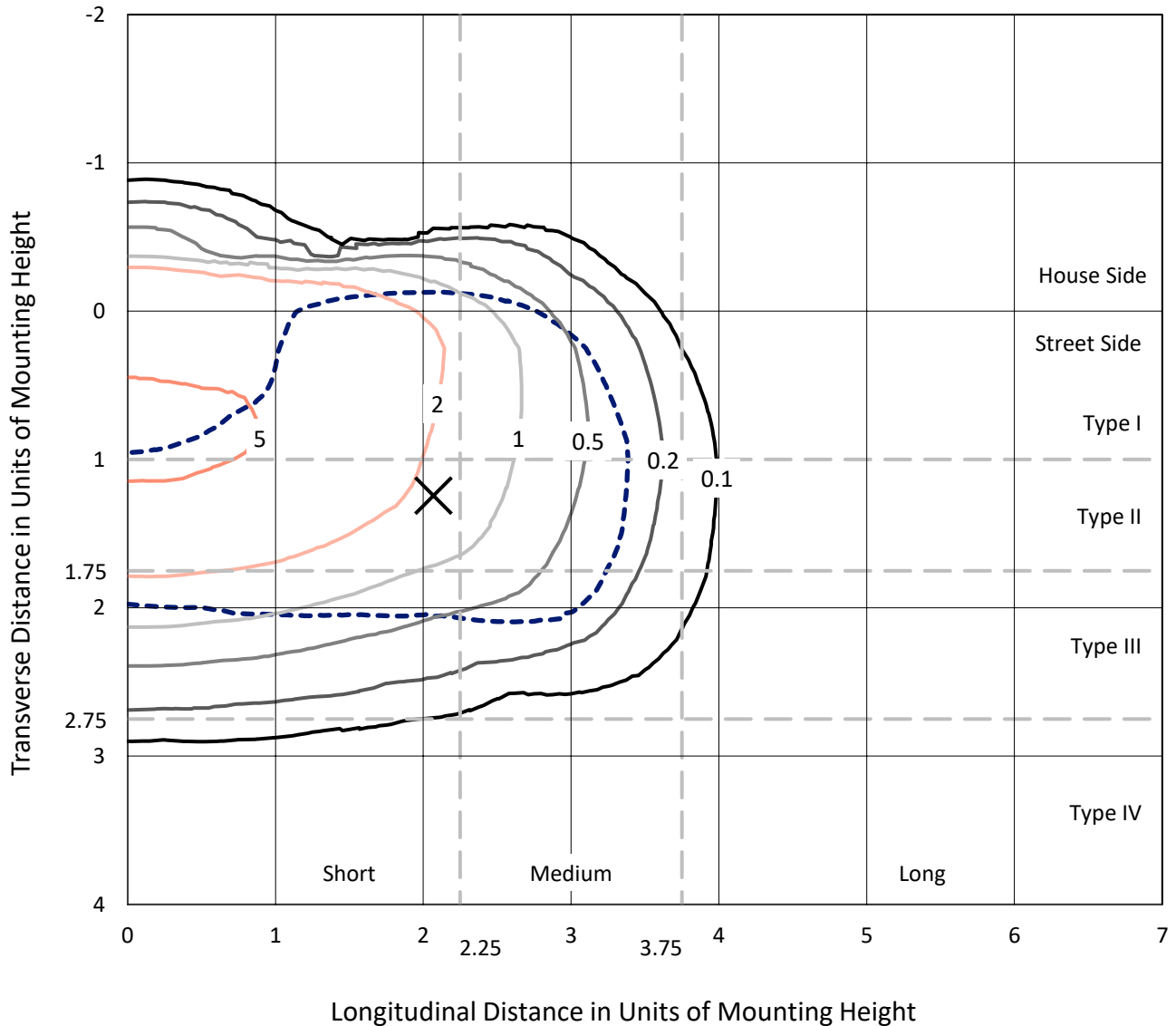
Lumens per Lamp: N/A
Luminaire Lumens: 35699.8 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

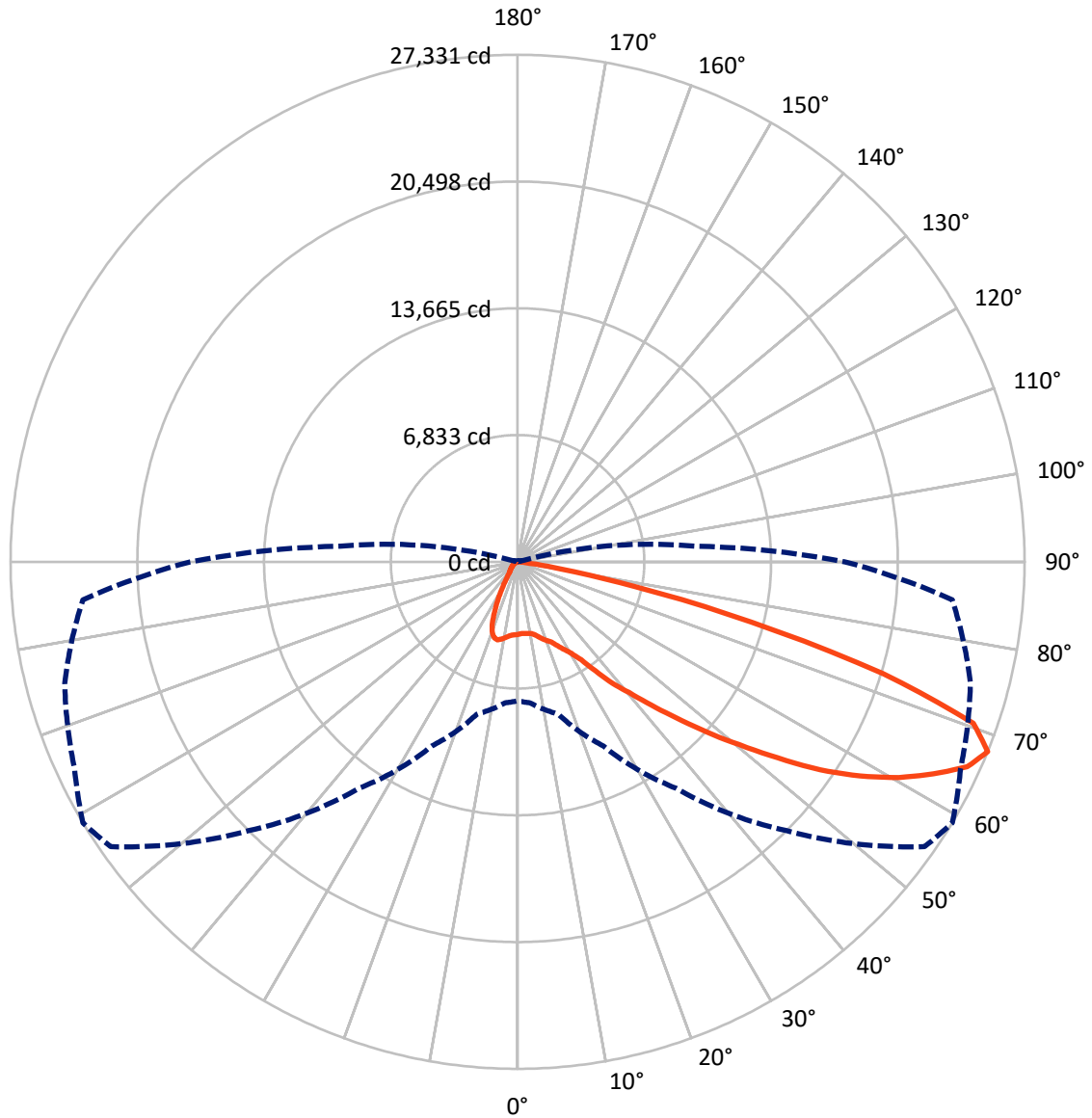
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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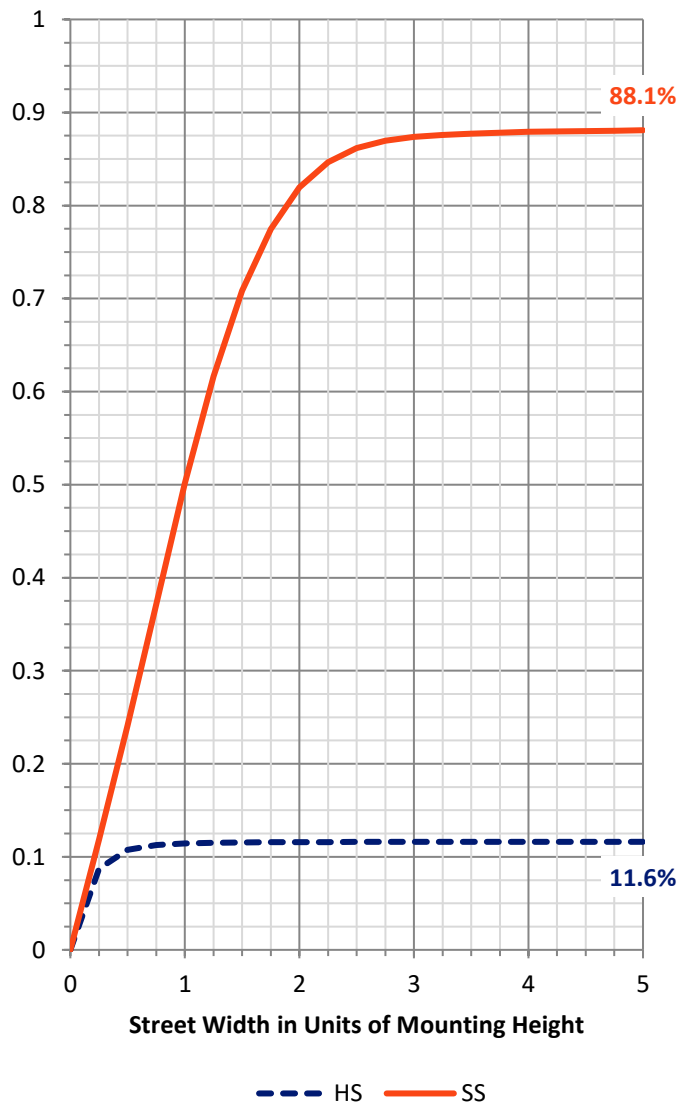
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4193.6	0.0	4193.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	31506.3	0.0	31506.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	35699.8	0.0	35699.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	1.0
10°-20°	1074.4	3.0
20°-30°	1877.8	5.3
30°-40°	3306.0	9.3
40°-50°	5844.0	16.4
50°-60°	9253.2	25.9
60°-70°	10264.3	28.8
70°-80°	3561.5	10.0
80°-90°	146.7	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°	35699.8	100.0
0°-180°	35699.8	100.0

Coefficient of Utilization

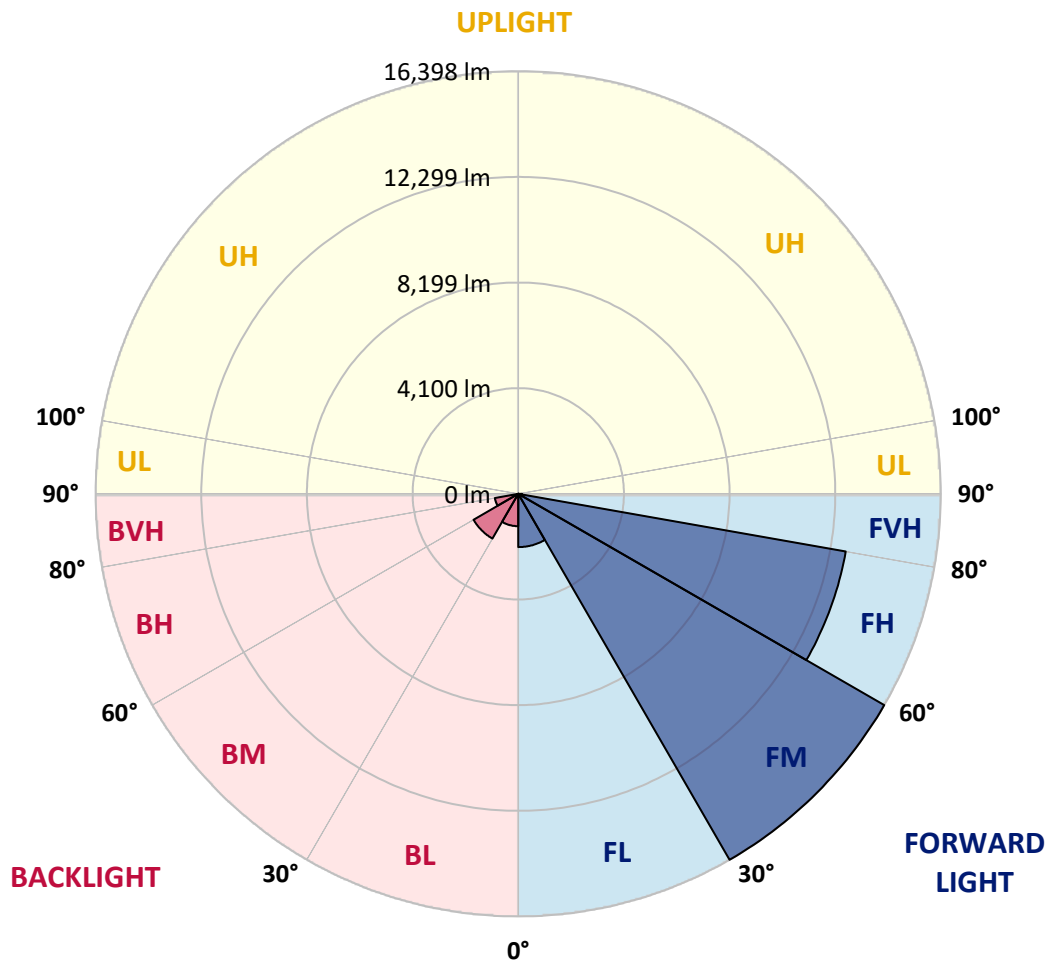


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.3	5.8			
FM (30°-60°)	16398.3	45.9			
FH (60°-80°)	12903.6	36.1			G5
FVH (80°-90°)	137.2	0.4			G2/225
BL (0°-30°)	1256.8	3.5	B3/2500		
BM (30°-60°)	2005.0	5.6	B2/2500		
BH (60°-80°)	922.2	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.5	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°	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6
2.5°	3802.2	3748.0	3797.3	3802.2	3807.1	3851.5	3900.8	3866.3	3861.4	3900.8
5°	3649.3	3624.7	3683.8	3713.4	3762.8	3802.2	3881.1	3886.0	3891.0	3935.4
7.5°	3585.2	3526.0	3595.1	3629.6	3664.1	3757.8	3851.5	3900.8	3969.9	4024.1
10°	3457.0	3501.4	3521.1	3580.3	3678.9	3787.4	3900.8	3925.5	4078.4	4122.8
12.5°	3501.4	3531.0	3570.4	3585.2	3693.7	3856.5	4009.3	4019.2	4177.0	4369.3
15°	3614.8	3595.1	3609.9	3629.6	3757.8	3891.0	4137.5	4181.9	4329.9	4546.9
17.5°	3856.5	3821.9	3797.3	3792.3	3821.9	3945.2	4236.2	4369.3	4507.4	4803.3
20°	4463.0	4433.4	4334.8	4078.4	3989.6	4038.9	4354.5	4541.9	4734.3	5064.7
22.5°	5385.2	5414.8	5183.0	4823.0	4453.2	4260.8	4541.9	4704.7	5010.4	5429.6
25°	6475.1	6415.9	6134.8	5715.6	5133.7	4680.0	4842.8	5025.2	5400.0	5745.2
27.5°	7328.2	7259.2	7042.2	6534.3	6031.3	5296.5	5237.3	5350.7	5794.5	6105.2
30°	8171.5	8196.2	8048.2	7446.6	6825.2	6051.0	5676.2	5725.5	6065.8	6465.2
32.5°	9246.6	9187.4	9103.6	8575.9	7841.1	7012.6	6371.5	6292.6	6440.6	6968.2
35°	10247.7	10213.2	10099.8	9567.2	8926.1	8023.6	7397.3	7219.8	7185.2	7772.1
37.5°	11120.6	11061.4	10888.8	10548.5	9927.2	9167.7	8482.2	8324.4	8319.5	8723.9
40°	11855.4	11899.8	11880.0	11505.2	11165.0	10558.4	9508.0	9256.5	9236.7	9453.7
42.5°	12807.2	12910.7	12856.5	12782.5	12373.2	12136.5	10948.0	10563.3	10390.7	10834.6
45°	14247.2	14286.6	14321.1	14138.7	13729.4	13778.7	12437.3	11978.7	11934.3	12595.1
47.5°	15593.5	15489.9	15731.6	15741.4	15721.7	15494.8	14045.0	13704.7	13763.9	14266.9
50°	15928.8	16195.1	16860.9	16984.2	17304.7	17511.8	15830.2	15489.9	15588.5	16160.6
52.5°	16190.2	16594.6	17260.3	18162.8	19025.8	19519.0	17827.5	17551.3	17546.4	17896.5
55°	16648.8	16895.4	17472.4	18715.1	20357.3	21166.1	20234.0	19790.2	19390.8	19637.3
57.5°	16604.4	16698.1	17595.7	19129.4	21412.7	22882.3	22211.6	21787.5	21274.6	21131.6
60°	15825.3	16047.2	17053.2	18848.3	22063.6	24218.7	24056.0	23622.0	22739.3	22403.9
62.5°	14281.7	14577.6	15366.6	17862.0	21116.8	24287.8	25328.3	25165.6	24179.3	23577.6
65°	11574.3	11712.4	12619.8	15356.8	18976.5	23227.5	26832.4	26630.2	25722.8	24825.3
67.5°	7495.9	7629.1	8501.9	10962.8	14903.1	20490.5	26773.2	27330.5	26349.1	25269.1
70°	3540.8	3506.3	4320.0	6090.4	9547.4	15647.7	24963.4	26063.1	25229.7	22906.9
72.5°	1080.0	1173.7	1795.1	2697.5	4901.9	9759.5	19568.3	20599.0	20337.6	18300.9
75°	478.4	517.8	705.2	1104.7	1987.4	4004.4	12087.2	13004.4	12891.0	10795.1
77.5°	305.8	335.3	443.8	631.2	902.5	1272.3	5567.7	6460.3	6263.0	3792.3
80°	217.0	231.8	315.6	434.0	567.1	522.7	1918.4	2278.4	2184.7	1030.7
82.5°	118.4	128.2	231.8	320.5	379.7	266.3	537.5	670.7	700.3	458.6
85°	44.4	54.2	143.0	226.9	197.3	123.3	157.8	192.3	251.5	251.5
87.5°	0.0	4.9	59.2	98.6	49.3	34.5	44.4	54.2	69.0	118.4
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°
3915.6	0°	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6
3935.4	2.5°	3960.0	3925.5	3940.3	3964.9	3910.7	3940.3	3881.1	3925.5	3940.3	3881.1
3994.5	5°	4009.3	4043.8	4024.1	3984.7	3950.2	3960.0	3945.2	3910.7	3940.3	3950.2
4083.3	7.5°	4152.3	4112.9	4122.8	4078.4	4009.3	4004.4	3910.7	3886.0	3895.9	3905.8
4265.8	10°	4285.5	4310.2	4260.8	4226.3	4112.9	4038.9	3910.7	3772.6	3757.8	3698.6
4443.3	12.5°	4522.2	4463.0	4443.3	4329.9	4216.5	3969.9	3693.7	3481.7	3304.1	3240.0
4729.3	15°	4719.5	4709.6	4675.1	4502.5	4241.1	3792.3	3269.6	2776.4	2436.2	2224.1
4897.0	17.5°	4990.7	4946.3	4882.2	4611.0	4058.6	3328.8	2436.2	1814.8	1474.5	1341.4
5217.6	20°	5197.8	5163.3	5074.5	4586.3	3728.2	2480.6	1509.0	1154.0	1070.1	1045.5
5567.7	22.5°	5498.6	5390.2	5222.5	4463.0	3126.6	1652.1	1084.9	1030.7	1015.9	996.2
5799.5	25°	5760.0	5661.4	5311.3	4251.0	2229.0	1094.8	1006.0	976.4	951.8	927.1
6046.0	27.5°	5991.8	5868.5	5405.0	3817.0	1395.6	941.9	932.1	897.5	848.2	808.8
6332.1	30°	6218.7	6075.6	5429.6	3003.3	941.9	853.2	828.5	774.2	710.1	655.9
6810.4	32.5°	6598.4	6425.8	5395.1	2145.2	813.7	759.5	705.2	641.1	547.4	503.0
7495.9	35°	7190.2	6928.8	5350.7	1262.5	729.9	670.7	586.9	503.0	434.0	389.6
8191.3	37.5°	7870.7	7417.0	5222.5	843.3	670.7	591.8	483.3	399.5	340.3	305.8
9143.0	40°	8881.7	8132.1	4729.3	690.4	596.7	503.0	389.6	315.6	271.2	246.6
10553.5	42.5°	9996.2	8950.7	3969.9	621.4	527.7	429.0	310.7	256.4	221.9	197.3
11963.9	45°	11332.6	9803.9	3062.5	567.1	468.5	355.1	256.4	207.1	177.5	157.8
13615.9	47.5°	12822.0	10578.1	2066.3	512.9	394.5	291.0	212.1	157.8	128.2	113.4
15415.9	50°	14153.5	11263.6	1316.7	448.8	345.2	241.6	172.6	128.2	103.6	83.8
16870.7	52.5°	15361.7	11786.3	907.4	394.5	295.9	197.3	143.0	103.6	78.9	64.1
18379.8	55°	16599.5	12052.6	670.7	340.3	256.4	167.7	118.4	93.7	69.0	54.2
20115.7	57.5°	17615.4	12166.1	512.9	295.9	217.0	133.2	103.6	78.9	59.2	44.4
21447.2	60°	18483.4	12111.8	399.5	246.6	172.6	113.4	88.8	64.1	49.3	34.5
23183.1	62.5°	18991.3	11786.3	315.6	212.1	138.1	98.6	74.0	54.2	34.5	24.7
24075.7	65°	19001.2	11095.9	246.6	157.8	103.6	83.8	64.1	44.4	24.7	9.9
23518.4	67.5°	17640.1	9601.7	197.3	123.3	83.8	64.1	49.3	34.5	9.9	0.0
19533.8	70°	13798.4	7264.1	162.7	98.6	69.0	54.2	34.5	19.7	4.9	0.0
13038.9	72.5°	8792.9	4349.6	133.2	78.9	59.2	39.5	24.7	14.8	0.0	0.0
5952.3	75°	3678.9	1341.4	103.6	69.0	44.4	29.6	19.7	4.9	0.0	0.0
1558.4	77.5°	946.9	424.1	83.8	59.2	44.4	24.7	14.8	4.9	0.0	0.0
419.2	80°	281.1	157.8	69.0	49.3	34.5	19.7	9.9	4.9	0.0	0.0
202.2	82.5°	128.2	93.7	59.2	44.4	29.6	19.7	9.9	0.0	0.0	0.0
93.7	85°	49.3	29.6	29.6	24.7	24.7	14.8	4.9	0.0	0.0	0.0
34.5	87.5°	19.7	9.9	9.9	9.9	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



<u>180°</u>
3915.6
3910.7
3930.4
3871.2
3748.0
3175.9
2194.5
1292.1
1050.4
1001.1
922.2
794.0
646.0
493.2
379.7
295.9
236.7
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147.9
113.4
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