

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: P575207

Luminaire Tested: **EPH-VN-07-730-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575207
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

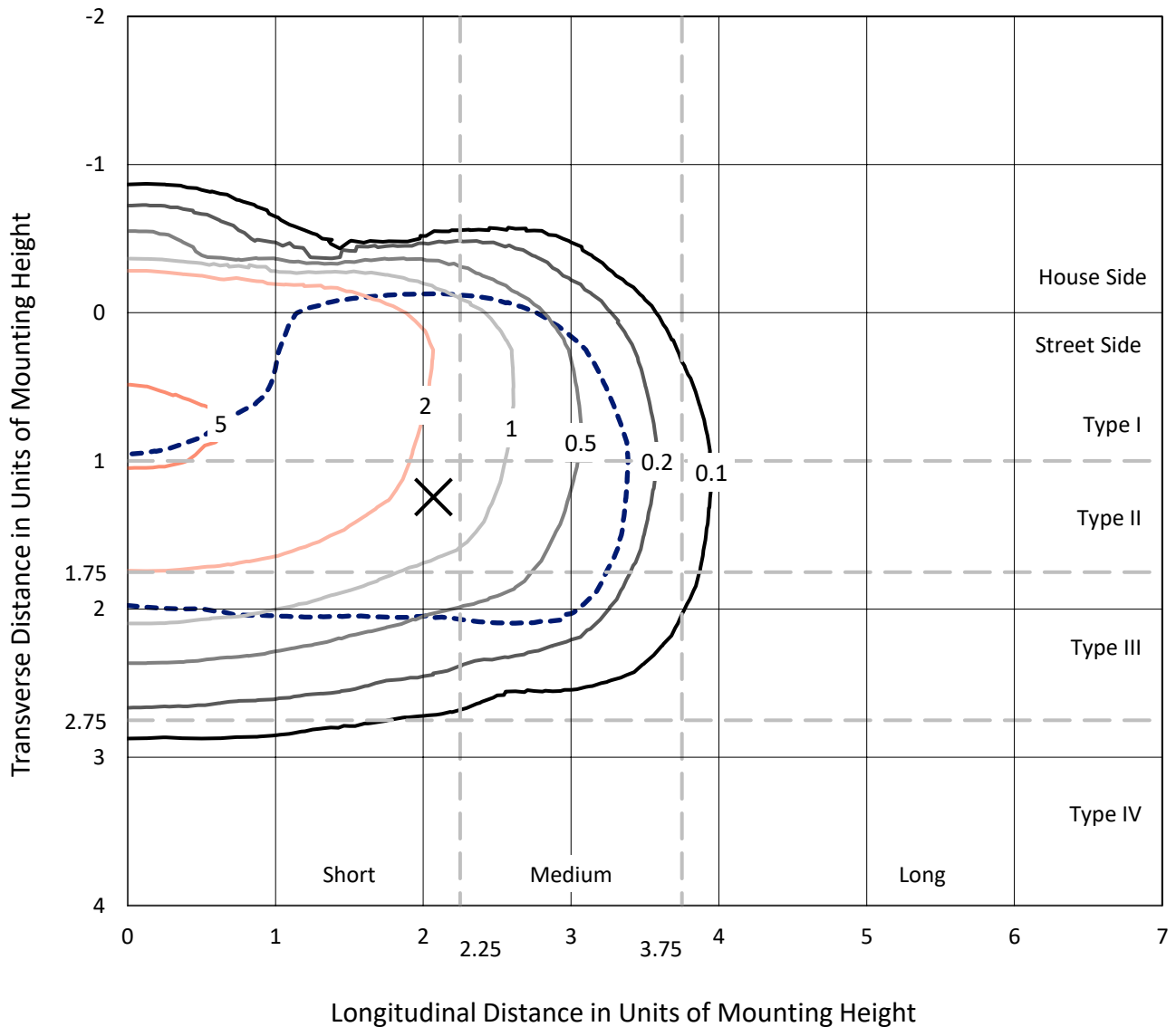
Lumens per Lamp: N/A
Luminaire Lumens: 32959.8 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

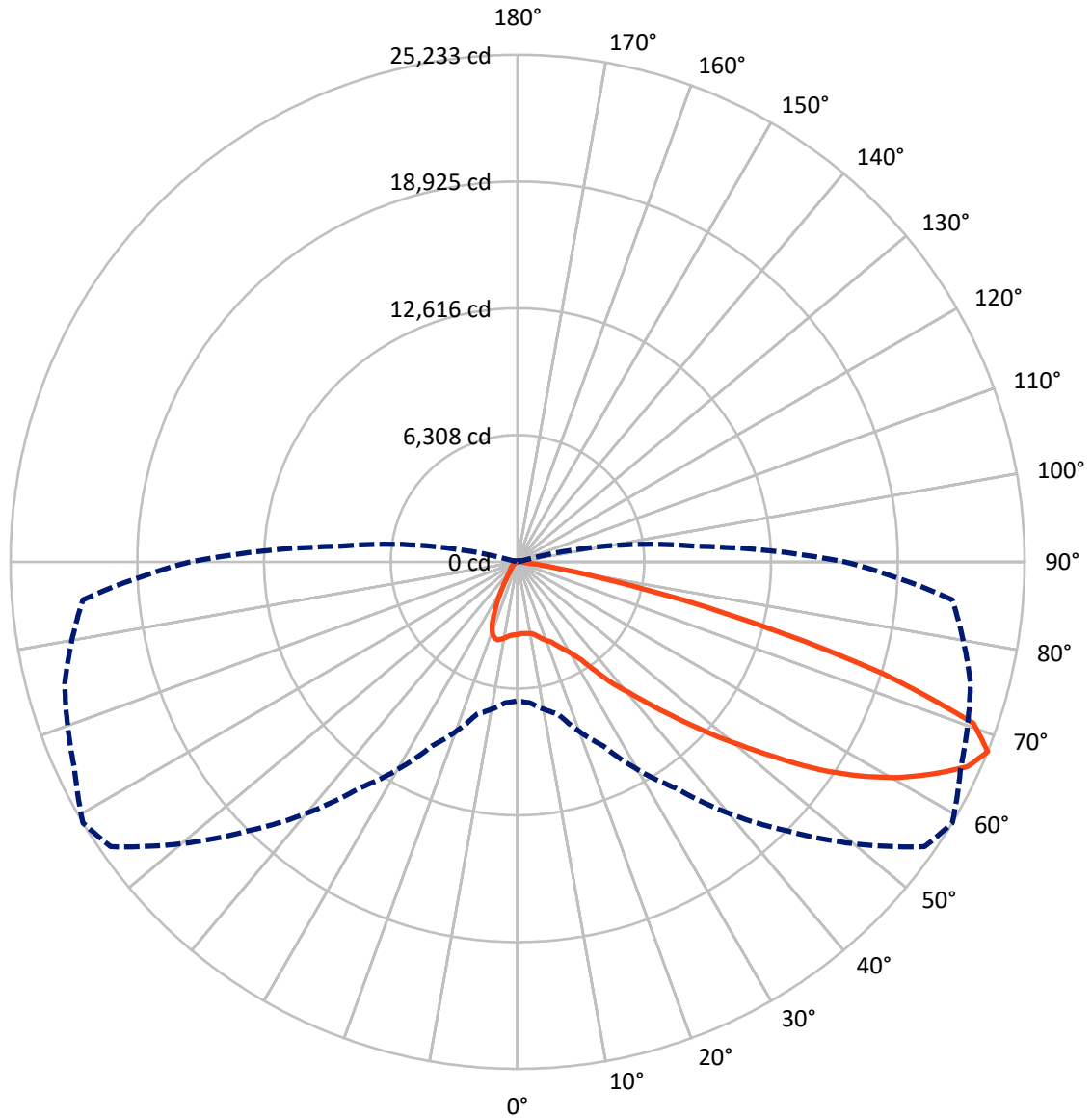
× Max cd
 - - - 1/2 Max cd



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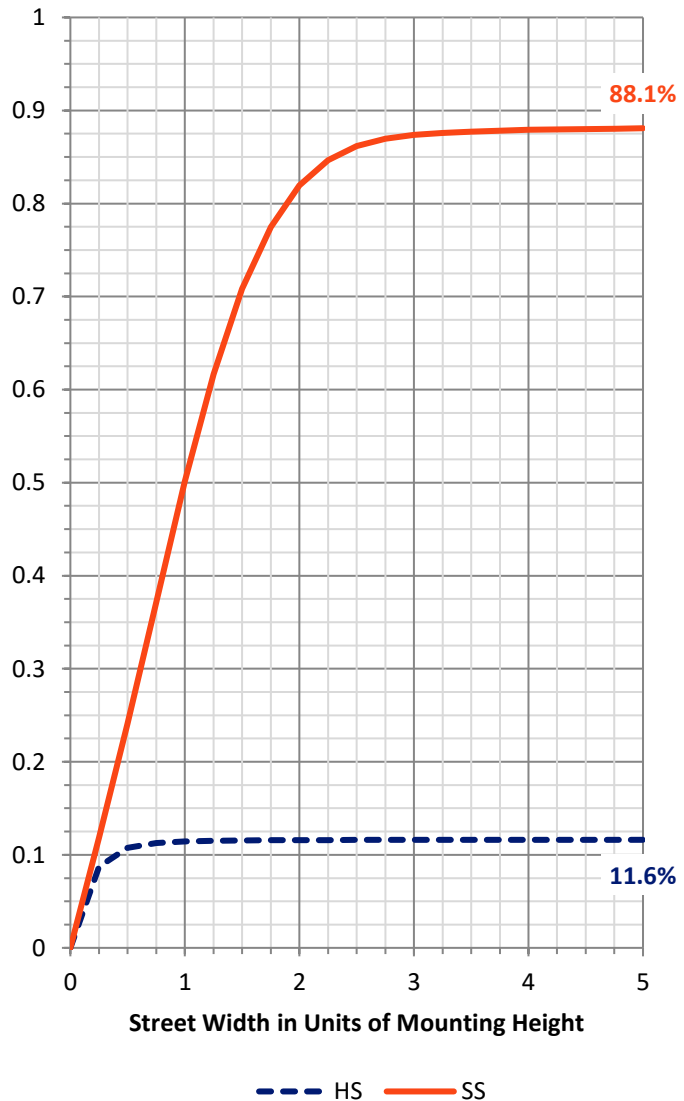
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3871.7	0.0	3871.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	29088.1	0.0	29088.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	32959.8	0.0	32959.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	1.0
10°-20°	991.9	3.0
20°-30°	1733.7	5.3
30°-40°	3052.3	9.3
40°-50°	5395.5	16.4
50°-60°	8543.0	25.9
60°-70°	9476.5	28.8
70°-80°	3288.1	10.0
80°-90°	135.4	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°	32959.8	100.0
0°-180°	32959.8	100.0

Coefficient of Utilization



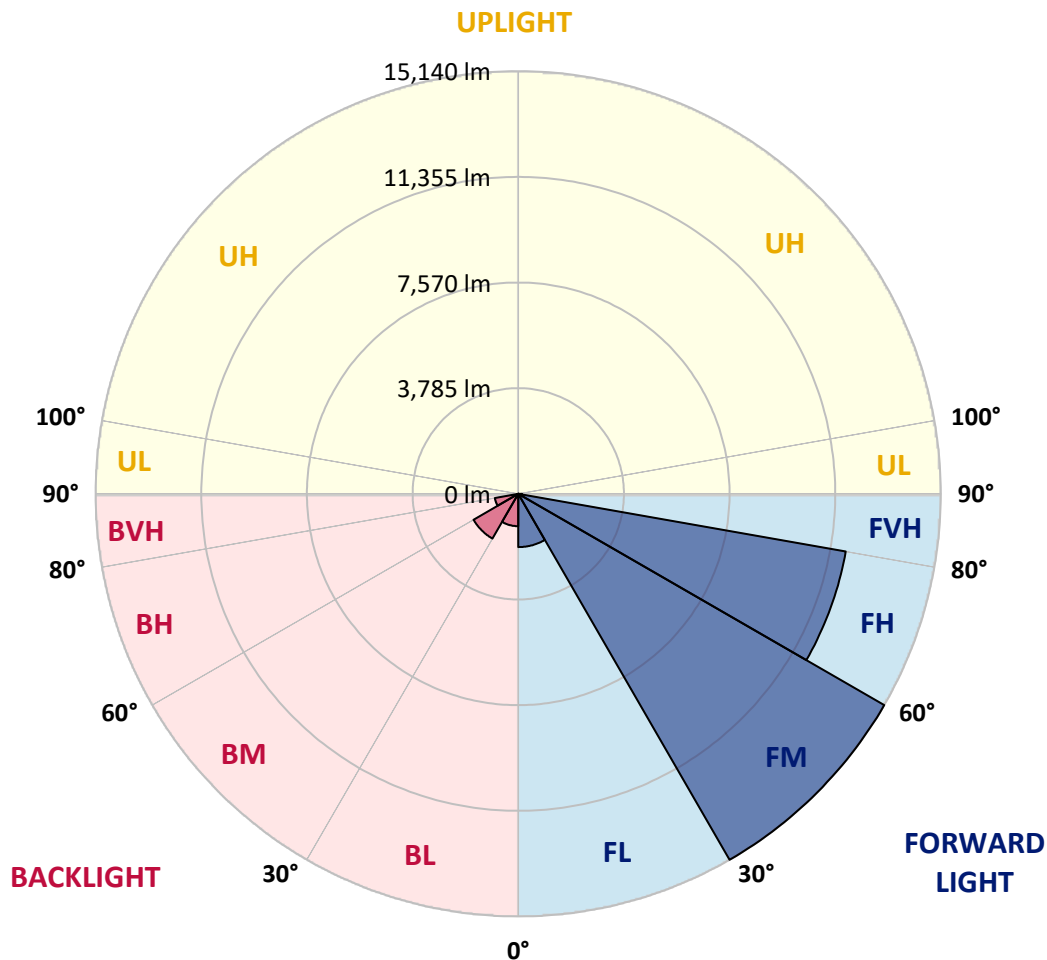
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.6	5.8			
FM (30°-60°)	15139.7	45.9			
FH (60°-80°)	11913.2	36.1			G4/12000
FVH (80°-90°)	126.6	0.4			G2/225
BL (0°-30°)	1160.4	3.5	B3/2500		
BM (30°-60°)	1851.1	5.6	B2/2500		
BH (60°-80°)	851.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1
2.5°	3510.4	3460.3	3505.8	3510.4	3514.9	3555.9	3601.4	3569.6	3565.0	3601.4
5°	3369.2	3346.5	3401.1	3428.4	3474.0	3510.4	3583.2	3587.8	3592.3	3633.3
7.5°	3310.0	3255.4	3319.2	3351.0	3382.9	3469.4	3555.9	3601.4	3665.2	3715.3
10°	3191.7	3232.6	3250.9	3305.5	3396.6	3496.7	3601.4	3624.2	3765.3	3806.3
12.5°	3232.6	3260.0	3296.4	3310.0	3410.2	3560.5	3701.6	3710.7	3856.4	4034.0
15°	3337.4	3319.2	3332.8	3351.0	3469.4	3592.3	3820.0	3861.0	3997.6	4197.9
17.5°	3560.5	3528.6	3505.8	3501.3	3528.6	3642.4	3911.0	4034.0	4161.5	4434.6
20°	4120.5	4093.2	4002.1	3765.3	3683.4	3728.9	4020.3	4193.3	4370.9	4676.0
22.5°	4971.9	4999.2	4785.2	4452.9	4111.4	3933.8	4193.3	4343.6	4625.9	5012.9
25°	5978.1	5923.5	5664.0	5277.0	4739.7	4320.8	4471.1	4639.5	4985.6	5304.3
27.5°	6765.8	6702.0	6501.7	6032.8	5568.3	4889.9	4835.3	4940.0	5349.8	5636.6
30°	7544.4	7567.1	7430.5	6875.1	6301.4	5586.6	5240.5	5286.1	5600.2	5969.0
32.5°	8536.9	8482.3	8404.9	7917.7	7239.3	6474.4	5882.5	5809.7	5946.2	6433.4
35°	9461.2	9429.3	9324.6	8832.9	8241.0	7407.8	6829.5	6665.6	6633.8	7175.6
37.5°	10267.1	10212.4	10053.1	9738.9	9165.2	8464.1	7831.2	7685.5	7680.9	8054.3
40°	10945.5	10986.4	10968.2	10622.2	10308.0	9748.0	8778.2	8546.0	8527.8	8728.1
42.5°	11824.2	11919.8	11869.7	11801.4	11423.5	11205.0	10107.7	9752.6	9593.2	10003.0
45°	13153.7	13190.1	13222.0	13053.5	12675.6	12721.1	11482.7	11059.3	11018.3	11628.4
47.5°	14396.7	14301.0	14524.1	14533.2	14515.0	14305.6	12967.0	12652.8	12707.5	13171.9
50°	14706.3	14952.1	15566.8	15680.6	15976.6	16167.8	14615.2	14301.0	14392.1	14920.3
52.5°	14947.6	15320.9	15935.6	16768.8	17565.6	18020.9	16459.2	16204.2	16199.7	16522.9
55°	15371.0	15598.7	16131.4	17278.7	18794.9	19541.6	18681.1	18271.3	17902.5	18130.1
57.5°	15330.0	15416.5	16245.2	17661.2	19769.2	21126.0	20506.8	20115.3	19641.7	19509.7
60°	14610.6	14815.5	15744.4	17401.7	20370.2	22359.9	22209.6	21809.0	20994.0	20684.4
62.5°	13185.6	13458.7	14187.2	16491.0	19496.0	22423.6	23384.3	23234.1	22323.5	21768.0
65°	10685.9	10813.4	11651.2	14178.1	17520.0	21444.7	24773.0	24586.3	23748.6	22919.9
67.5°	6920.6	7043.5	7849.4	10121.4	13759.2	18917.8	24718.4	25232.8	24326.8	23329.7
70°	3269.1	3237.2	3988.4	5623.0	8814.7	14446.7	23047.4	24062.7	23293.3	21148.8
72.5°	997.1	1083.6	1657.3	2490.5	4525.7	9010.4	18066.4	19018.0	18776.7	16896.3
75°	441.6	478.1	651.1	1019.9	1834.9	3697.1	11159.5	12006.3	11901.6	9966.6
77.5°	282.3	309.6	409.8	582.8	833.2	1174.7	5140.4	5964.5	5782.3	3501.3
80°	200.3	214.0	291.4	400.7	523.6	482.6	1771.1	2103.5	2017.0	951.6
82.5°	109.3	118.4	214.0	295.9	350.6	245.9	496.3	619.2	646.5	423.4
85°	41.0	50.1	132.0	209.4	182.1	113.8	145.7	177.6	232.2	232.2
87.5°	0.0	4.6	54.6	91.1	45.5	31.9	41.0	50.1	63.7	109.3
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°
3615.1	0°	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1	3615.1
3633.3	2.5°	3656.1	3624.2	3637.9	3660.6	3610.5	3637.9	3583.2	3624.2	3637.9	3583.2
3687.9	5°	3701.6	3733.5	3715.3	3678.8	3647.0	3656.1	3642.4	3610.5	3637.9	3647.0
3769.9	7.5°	3833.6	3797.2	3806.3	3765.3	3701.6	3697.1	3610.5	3587.8	3596.9	3606.0
3938.4	10°	3956.6	3979.3	3933.8	3901.9	3797.2	3728.9	3610.5	3483.1	3469.4	3414.8
4102.3	12.5°	4175.1	4120.5	4102.3	3997.6	3892.8	3665.2	3410.2	3214.4	3050.5	2991.3
4366.3	15°	4357.2	4348.1	4316.3	4156.9	3915.6	3501.3	3018.7	2563.4	2249.2	2053.4
4521.2	17.5°	4607.7	4566.7	4507.5	4257.1	3747.1	3073.3	2249.2	1675.5	1361.4	1238.4
4817.1	20°	4798.9	4767.0	4685.1	4234.3	3442.1	2290.2	1393.2	1065.4	988.0	965.2
5140.4	22.5°	5076.6	4976.5	4821.7	4120.5	2886.6	1525.3	1001.7	951.6	937.9	919.7
5354.4	25°	5317.9	5226.9	4903.6	3924.7	2058.0	1010.8	928.8	901.5	878.7	856.0
5582.0	27.5°	5531.9	5418.1	4990.1	3524.0	1288.5	869.6	860.5	828.7	783.1	746.7
5846.1	30°	5741.4	5609.3	5012.9	2772.8	869.6	787.7	764.9	714.8	655.6	605.6
6287.7	32.5°	6091.9	5932.6	4981.0	1980.6	751.2	701.2	651.1	591.9	505.4	464.4
6920.6	35°	6638.3	6397.0	4940.0	1165.6	673.8	619.2	541.8	464.4	400.7	359.7
7562.6	37.5°	7266.6	6847.7	4821.7	778.6	619.2	546.4	446.2	368.8	314.2	282.3
8441.3	40°	8200.0	7507.9	4366.3	637.4	550.9	464.4	359.7	291.4	250.4	227.7
9743.5	42.5°	9229.0	8263.7	3665.2	573.7	487.2	396.1	286.8	236.8	204.9	182.1
11045.6	45°	10462.8	9051.4	2827.4	523.6	432.5	327.8	236.8	191.2	163.9	145.7
12570.9	47.5°	11837.9	9766.2	1907.7	473.5	364.2	268.6	195.8	145.7	118.4	104.7
14232.7	50°	13067.2	10399.1	1215.7	414.3	318.7	223.1	159.4	118.4	95.6	77.4
15575.9	52.5°	14182.7	10881.7	837.8	364.2	273.2	182.1	132.0	95.6	72.8	59.2
16969.1	55°	15325.5	11127.6	619.2	314.2	236.8	154.8	109.3	86.5	63.7	50.1
18571.8	57.5°	16263.4	11232.3	473.5	273.2	200.3	122.9	95.6	72.8	54.6	41.0
19801.1	60°	17064.7	11182.2	368.8	227.7	159.4	104.7	82.0	59.2	45.5	31.9
21403.8	62.5°	17533.7	10881.7	291.4	195.8	127.5	91.1	68.3	50.1	31.9	22.8
22227.9	65°	17542.8	10244.3	227.7	145.7	95.6	77.4	59.2	41.0	22.8	9.1
21713.4	67.5°	16286.2	8864.7	182.1	113.8	77.4	59.2	45.5	31.9	9.1	0.0
18034.5	70°	12739.4	6706.6	150.2	91.1	63.7	50.1	31.9	18.2	4.6	0.0
12038.2	72.5°	8118.0	4015.8	122.9	72.8	54.6	36.4	22.8	13.7	0.0	0.0
5495.5	75°	3396.6	1238.4	95.6	63.7	41.0	27.3	18.2	4.6	0.0	0.0
1438.8	77.5°	874.2	391.6	77.4	54.6	41.0	22.8	13.7	4.6	0.0	0.0
387.0	80°	259.5	145.7	63.7	45.5	31.9	18.2	9.1	4.6	0.0	0.0
186.7	82.5°	118.4	86.5	54.6	41.0	27.3	18.2	9.1	0.0	0.0	0.0
86.5	85°	45.5	27.3	27.3	22.8	22.8	13.7	4.6	0.0	0.0	0.0
31.9	87.5°	18.2	9.1	9.1	9.1	4.6	4.6	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°
3615.1
3610.5
3628.8
3574.1
3460.3
2932.1
2026.1
1192.9
969.8
924.3
851.4
733.0
596.4
455.3
350.6
273.2
218.5
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