

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: P574843

Luminaire Tested: **EPH-VN-03-730-U-5NQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574843
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

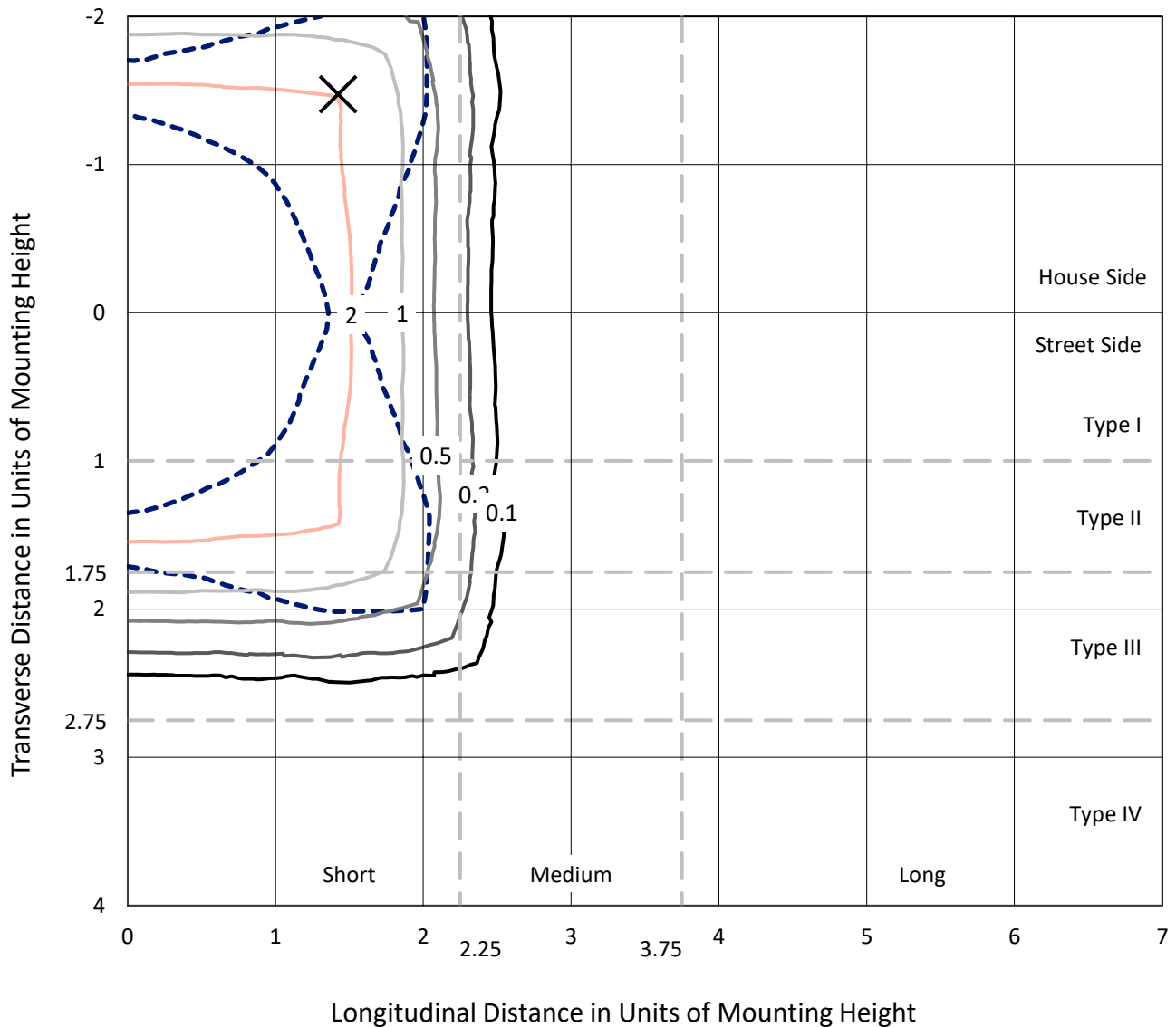
Lumens per Lamp: N/A
Luminaire Lumens: 24497.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1
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

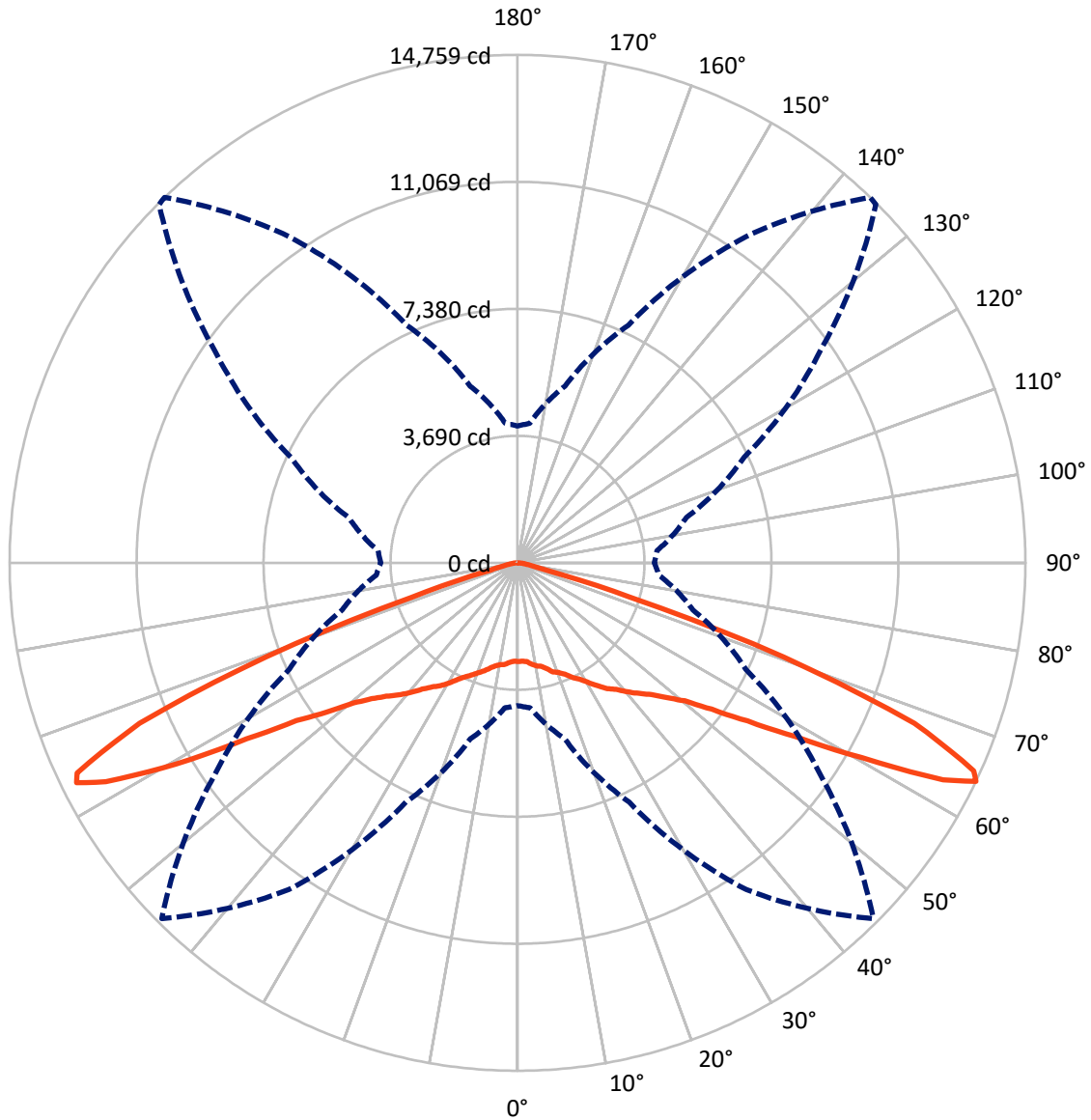
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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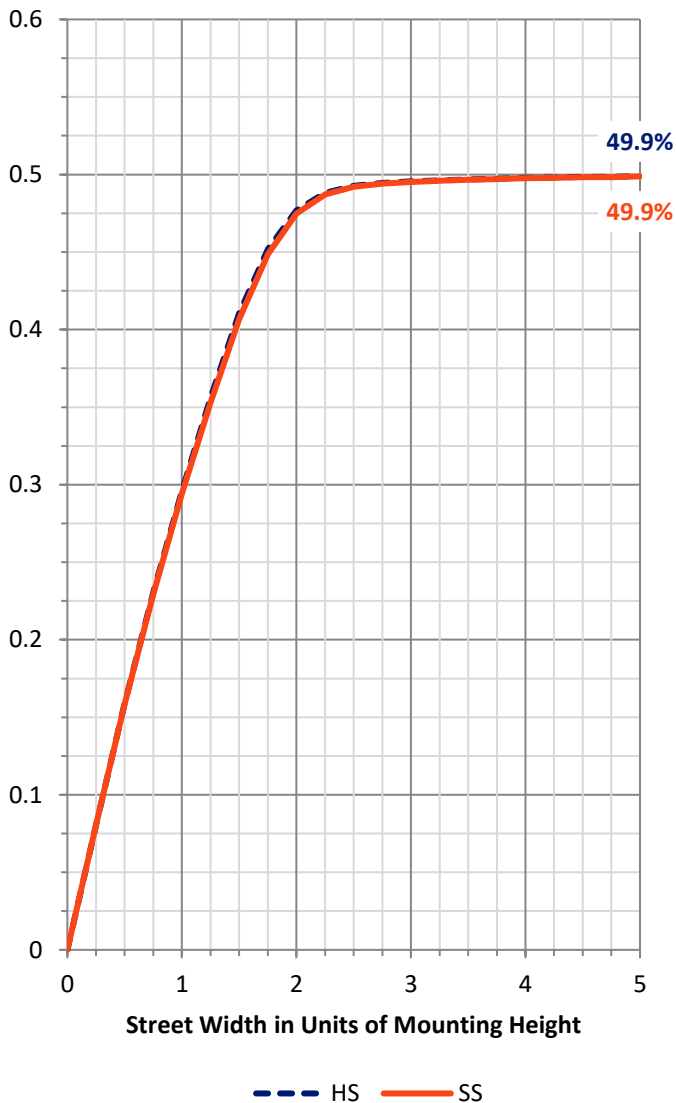
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12260.4	0.0	12260.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12237.0	0.0	12237.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24497.4	0.0	24497.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.2
10°-20°	908.3	3.7
20°-30°	1707.1	7.0
30°-40°	2815.2	11.5
40°-50°	4402.8	18.0
50°-60°	7113.9	29.0
60°-70°	6405.6	26.1
70°-80°	758.8	3.1
80°-90°	103.9	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°	24497.4	100.0
0°-180°	24497.4	100.0

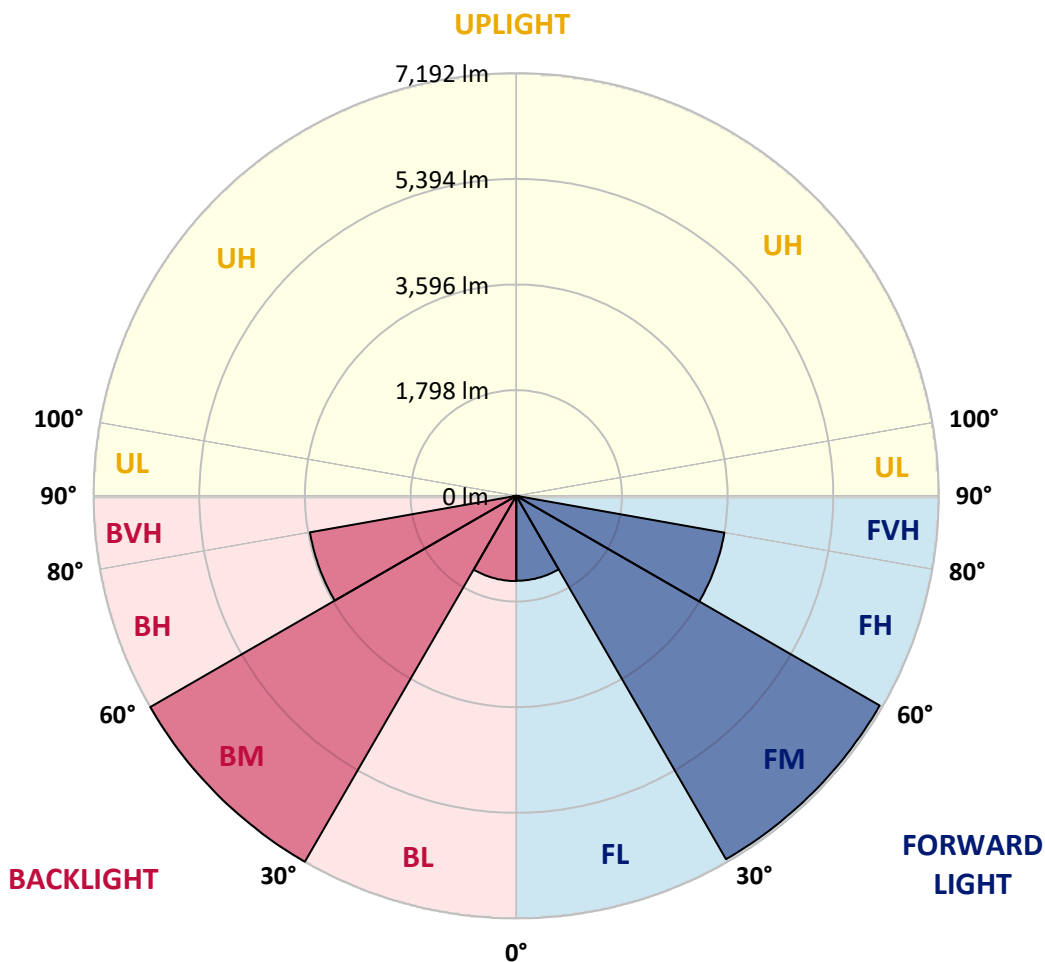


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.8	5.9			
FM (30°-60°)	7140.2	29.1			
FH (60°-80°)	3597.7	14.7			G2/5000
FVH (80°-90°)	53.3	0.2			G1/100
BL (0°-30°)	1451.4	5.9	B3/2500		
BM (30°-60°)	7191.8	29.4	B4/8500		
BH (60°-80°)	3566.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	50.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1
2.5°	2834.4	2840.1	2890.6	2871.0	2887.8	2856.9	2879.4	2927.1	2871.0	2913.1
5°	2865.3	2873.8	2873.8	2893.4	2904.7	2899.0	2913.1	2893.4	2946.8	2924.3
7.5°	2977.7	2963.7	2941.2	2958.0	2960.8	2974.9	2988.9	3014.2	3005.8	2986.1
10°	2997.4	2986.1	3019.8	3022.6	3008.6	2997.4	3011.4	3011.4	3036.7	3042.3
12.5°	3031.1	3042.3	3039.5	3062.0	3064.8	3056.4	3078.8	3121.0	3109.7	3118.2
15°	3160.3	3146.2	3143.4	3165.9	3202.4	3149.1	3188.4	3185.6	3174.3	3191.2
17.5°	3272.7	3227.7	3247.4	3283.9	3269.9	3281.1	3331.7	3286.7	3297.9	3278.3
20°	3371.0	3334.5	3337.3	3351.3	3351.3	3385.0	3404.7	3387.8	3376.6	3373.8
22.5°	3480.5	3438.4	3441.2	3500.2	3519.9	3508.6	3494.6	3522.7	3528.3	3505.8
25°	3562.0	3607.0	3621.0	3649.1	3607.0	3637.9	3626.6	3680.0	3713.7	3668.8
27.5°	3775.5	3755.8	3792.4	3789.5	3823.3	3792.4	3812.0	3828.9	3842.9	3845.7
30°	3966.5	3974.9	3938.4	4036.8	3958.1	4008.7	4042.4	4050.8	4067.7	4067.7
32.5°	4168.8	4151.9	4210.9	4188.4	4174.4	4213.7	4177.2	4292.4	4225.0	4264.3
35°	4396.3	4396.3	4418.8	4480.6	4396.3	4371.0	4438.5	4486.2	4486.2	4416.0
37.5°	4652.0	4629.5	4657.6	4736.2	4671.6	4587.3	4710.9	4730.6	4716.6	4696.9
40°	4831.7	4826.1	4882.3	4986.2	4893.5	4876.7	4899.2	4952.5	4969.4	4989.1
42.5°	5135.1	5160.4	5323.3	5298.1	5222.2	5163.2	5157.6	5357.1	5309.3	5258.7
45°	5584.6	5562.1	5646.4	5649.2	5550.9	5421.7	5449.8	5632.3	5713.8	5601.4
47.5°	5941.4	5952.6	6011.6	6132.4	5904.8	5770.0	5873.9	6168.9	6143.6	6101.5
50°	6418.9	6469.5	6654.9	6612.7	6410.5	6244.7	6472.3	6750.4	6781.3	6626.8
52.5°	7079.1	7157.7	7258.8	7292.6	7098.7	7039.7	7053.8	7399.3	7323.5	7174.6
55°	7657.7	7694.3	7879.7	8157.8	8143.7	7860.0	8022.9	8152.2	7843.2	7537.0
57.5°	7905.0	7921.8	8438.7	8994.9	9326.4	9391.0	9205.6	8770.2	8034.2	7444.3
60°	7289.7	7449.9	8073.5	9329.2	10843.3	11590.6	10357.3	8840.4	7587.5	6871.2
62.5°	5826.2	5834.6	6761.6	8666.2	11787.2	13745.2	10798.4	8180.2	6396.4	5584.6
64°	4149.1	4227.8	5292.4	7671.8	11590.6	14621.6	10745.0	7317.8	5272.8	4121.0
65°	2977.7	3087.3	4115.4	6660.5	11129.9	14517.7	10584.9	6576.2	4264.3	3146.2
67.5°	1095.6	1140.5	1615.3	3331.7	7992.0	12371.5	8388.1	3615.4	1873.7	1334.3
70°	508.5	511.3	598.3	1101.2	3494.6	8273.0	4003.0	1356.8	705.1	559.0
72.5°	373.6	382.0	418.6	508.5	1028.1	3503.0	1314.7	556.2	412.9	365.2
75°	303.4	309.0	320.2	368.0	474.7	938.3	533.7	384.9	328.7	295.0
77.5°	233.2	233.2	258.4	280.9	314.6	438.2	354.0	306.2	266.9	233.2
80°	168.5	171.4	202.3	219.1	213.5	289.3	255.6	252.8	219.1	182.6
82.5°	98.3	106.7	146.1	157.3	151.7	171.4	185.4	196.6	171.4	126.4
85°	56.2	59.0	84.3	87.1	87.1	81.5	106.7	118.0	115.2	78.7
87.5°	16.9	16.9	22.5	22.5	25.3	28.1	42.1	50.6	56.2	39.3
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):

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
2868.1	0°	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1	2868.1
2927.1	2.5°	2913.1	2871.0	2873.8	2885.0	2848.5	2862.5	2904.7	2873.8	2865.3	2848.5
2958.0	5°	2899.0	2944.0	2927.1	2932.8	2924.3	2885.0	2879.4	2904.7	2918.7	2893.4
3019.8	7.5°	2997.4	2977.7	2955.2	2963.7	2944.0	2977.7	3000.2	2949.6	2974.9	2960.8
3042.3	10°	3053.5	3017.0	3033.9	3028.3	3014.2	3047.9	3025.5	3019.8	2997.4	2966.5
3098.5	12.5°	3073.2	3115.3	3143.4	3095.7	3104.1	3087.3	3073.2	3073.2	3047.9	3039.5
3146.2	15°	3160.3	3196.8	3185.6	3222.1	3174.3	3191.2	3208.1	3165.9	3188.4	3126.6
3264.2	17.5°	3320.4	3289.5	3328.8	3281.1	3297.9	3331.7	3278.3	3278.3	3295.1	3261.4
3379.4	20°	3421.5	3407.5	3393.5	3396.3	3368.2	3399.1	3382.2	3373.8	3348.5	3359.7
3531.1	22.5°	3517.1	3497.4	3503.0	3511.4	3531.1	3517.1	3508.6	3517.1	3455.3	3511.4
3699.7	25°	3635.0	3688.4	3671.6	3708.1	3651.9	3688.4	3685.6	3632.2	3665.9	3643.5
3831.7	27.5°	3831.7	3803.6	3828.9	3783.9	3823.3	3826.1	3792.4	3882.2	3842.9	3837.3
4025.5	30°	4084.5	4064.8	4048.0	4022.7	4053.6	4028.3	4056.4	4064.8	4028.3	4000.2
4216.5	32.5°	4227.8	4281.1	4300.8	4239.0	4241.8	4255.9	4230.6	4205.3	4227.8	4236.2
4432.8	35°	4430.0	4480.6	4491.8	4444.1	4418.8	4489.0	4438.5	4522.7	4449.7	4452.5
4663.2	37.5°	4666.0	4680.0	4775.6	4722.2	4699.7	4666.0	4758.7	4747.5	4764.3	4629.5
4944.1	40°	4932.9	4983.4	5036.8	4902.0	4899.2	4930.1	4924.4	4989.1	4958.2	4938.5
5233.4	42.5°	5225.0	5331.8	5340.2	5250.3	5194.1	5188.5	5216.6	5359.9	5362.7	5233.4
5643.6	45°	5612.7	5730.7	5699.8	5525.6	5463.8	5455.4	5593.0	5654.8	5708.2	5657.6
6140.8	47.5°	6095.9	6174.5	6152.0	5991.9	5792.5	5848.7	5983.5	6177.3	6121.1	6053.7
6598.7	50°	6612.7	6705.4	6657.7	6497.6	6306.5	6306.5	6472.3	6719.5	6702.6	6570.6
7079.1	52.5°	7185.8	7320.6	7430.2	7202.7	7042.5	7067.8	7329.1	7419.0	7376.8	7284.1
7562.2	55°	7612.8	7871.2	8096.0	8107.2	8115.6	8112.8	8180.2	8270.1	7969.6	7820.7
7407.7	57.5°	7508.9	7997.7	8767.4	9289.9	9444.4	9525.8	9503.4	9087.6	8376.9	7888.1
6817.8	60°	6767.2	7565.0	8806.7	10483.8	11607.4	11495.0	11084.9	9441.6	8152.2	7326.3
5371.1	62.5°	5399.2	6359.9	8146.5	10820.9	13916.5	13882.8	11736.6	8624.1	6792.5	5747.5
3972.1	64°	4067.7	5078.9	7267.3	10733.8	14725.6	14759.3	11570.9	7618.4	5314.9	4067.7
2994.6	65°	3112.5	4050.8	6404.9	10554.0	14551.4	14571.1	11110.2	6579.0	4039.6	2887.8
1199.5	67.5°	1238.8	1724.8	3474.9	8003.3	12495.1	12441.7	7927.4	3182.8	1545.0	1005.7
519.7	70°	528.1	657.3	1219.2	3792.4	8365.7	8211.1	3413.1	1033.8	573.1	480.4
356.8	72.5°	362.4	401.7	522.5	1171.4	3477.7	3396.3	972.0	480.4	390.5	359.6
283.7	75°	292.2	320.2	379.2	491.6	921.4	887.7	457.9	354.0	311.8	289.3
224.7	77.5°	227.5	255.6	297.8	339.9	421.4	418.6	306.2	266.9	241.6	224.7
168.5	80°	179.8	207.9	236.0	241.6	275.3	269.7	207.9	210.7	196.6	162.9
115.2	82.5°	123.6	168.5	188.2	171.4	162.9	162.9	148.9	148.9	137.6	101.1
70.2	85°	75.8	112.4	118.0	101.1	75.8	75.8	81.5	78.7	73.0	53.4
36.5	87.5°	39.3	53.4	47.8	39.3	25.3	25.3	22.5	16.9	16.9	14.0
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>
2868.1
2840.1
2944.0
2932.8
3011.4
3047.9
3174.3
3219.3
3382.2
3432.8
3626.6
3826.1
3946.9
4227.8
4376.7
4696.9
4890.7
5177.3
5609.9
5997.5
6520.0
7242.0
7669.0
7938.7
7222.3
5682.9
3969.3
2781.1
986.0
477.6
359.6
286.5
219.1
160.1
92.7
50.6
14.0
0.0

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