

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: P574850

Luminaire Tested: **EPH-VN-04-735-U-5NQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

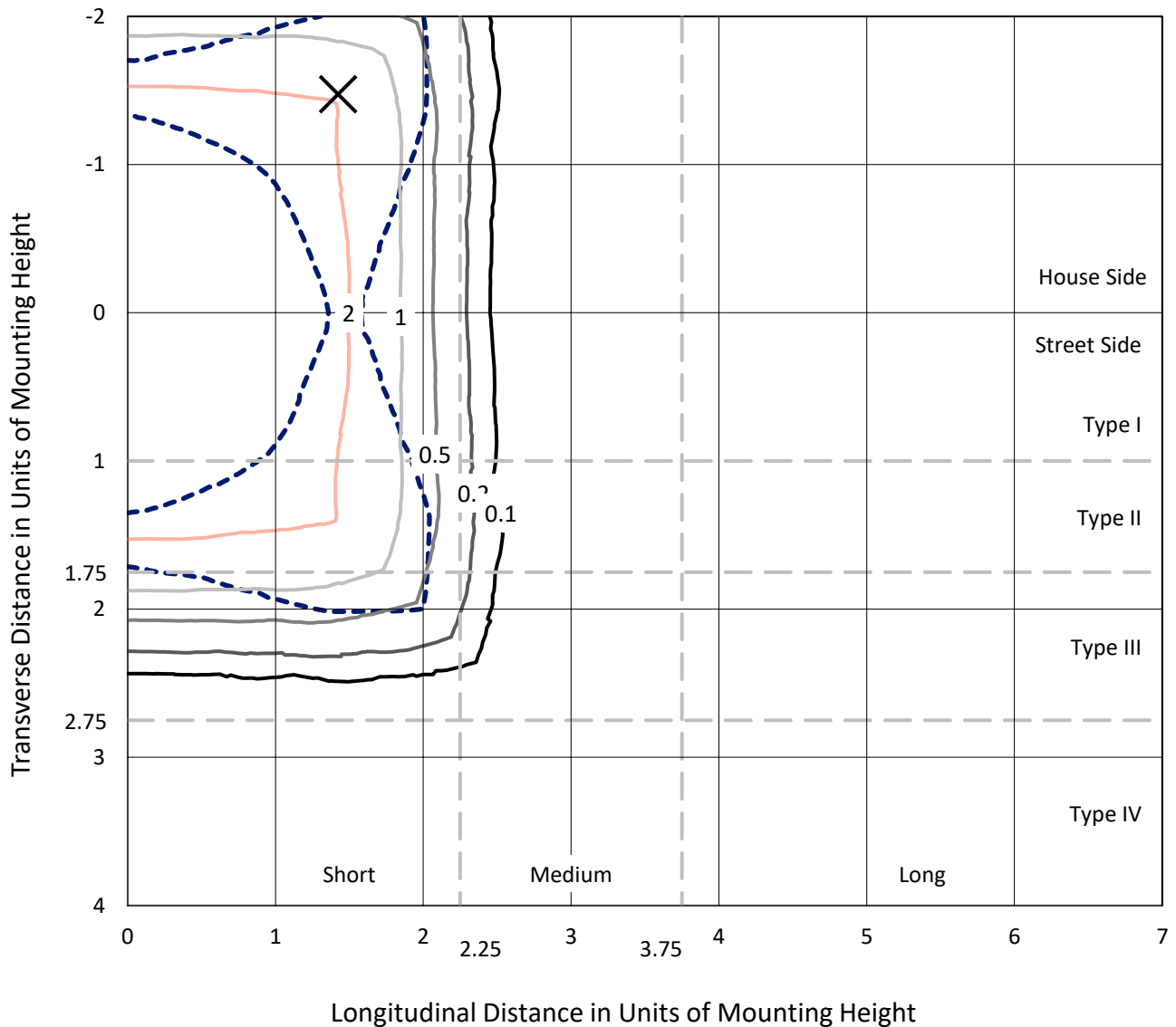
Lumens per Lamp: N/A
Luminaire Lumens: 34404.9 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 303.8
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

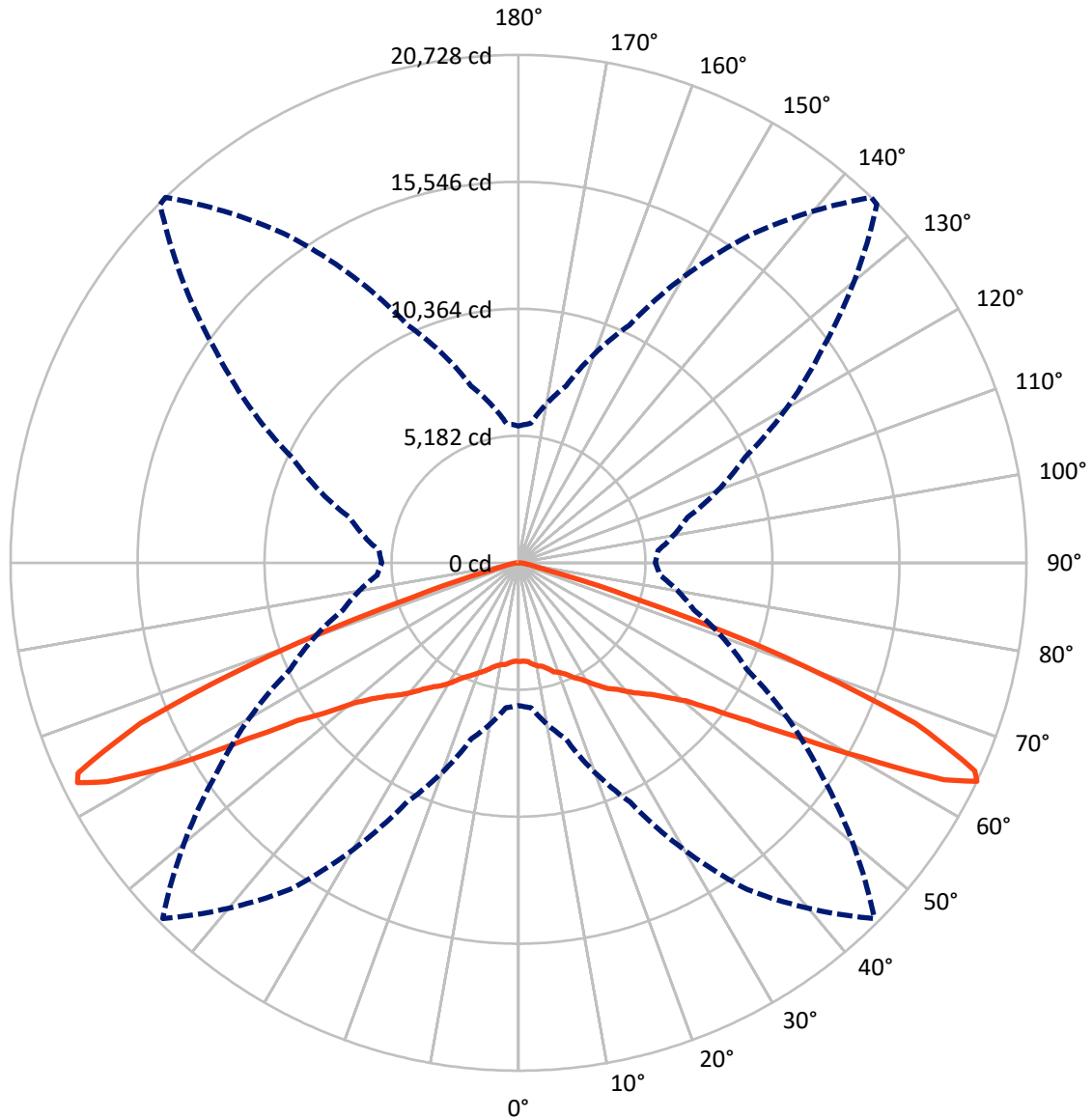
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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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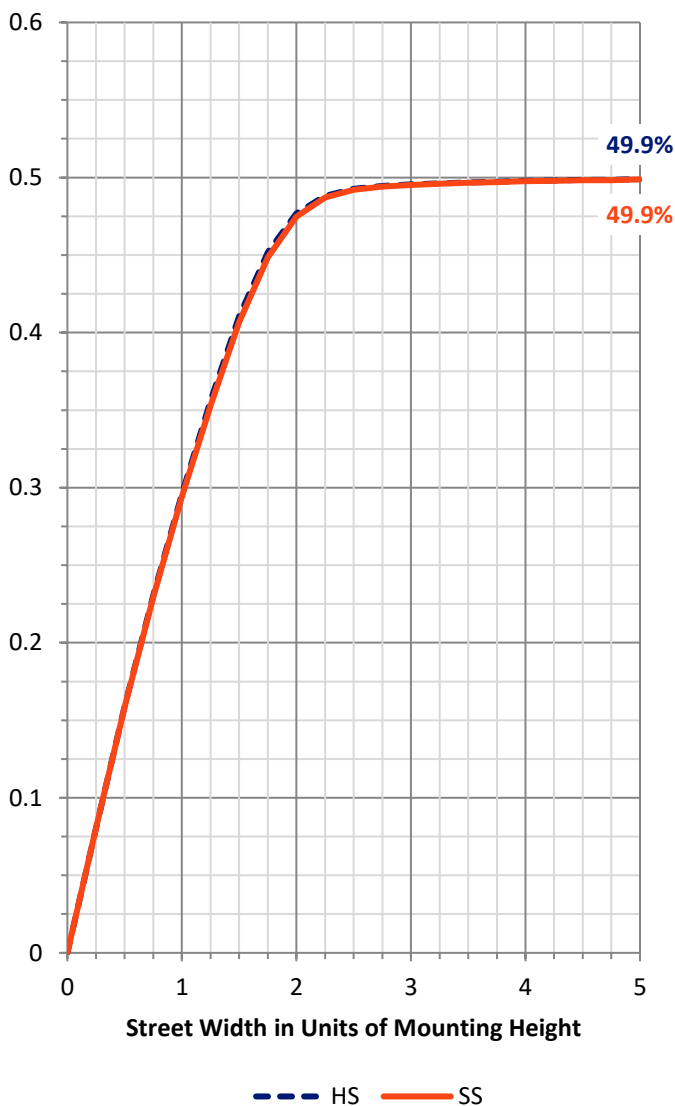
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17218.8	0.0	17218.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17186.1	0.0	17186.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	34404.9	0.0	34404.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	1.2
10°-20°	1275.6	3.7
20°-30°	2397.4	7.0
30°-40°	3953.8	11.5
40°-50°	6183.5	18.0
50°-60°	9991.0	29.0
60°-70°	8996.2	26.1
70°-80°	1065.7	3.1
80°-90°	145.9	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°	34404.9	100.0
0°-180°	34404.9	100.0

Coefficient of Utilization



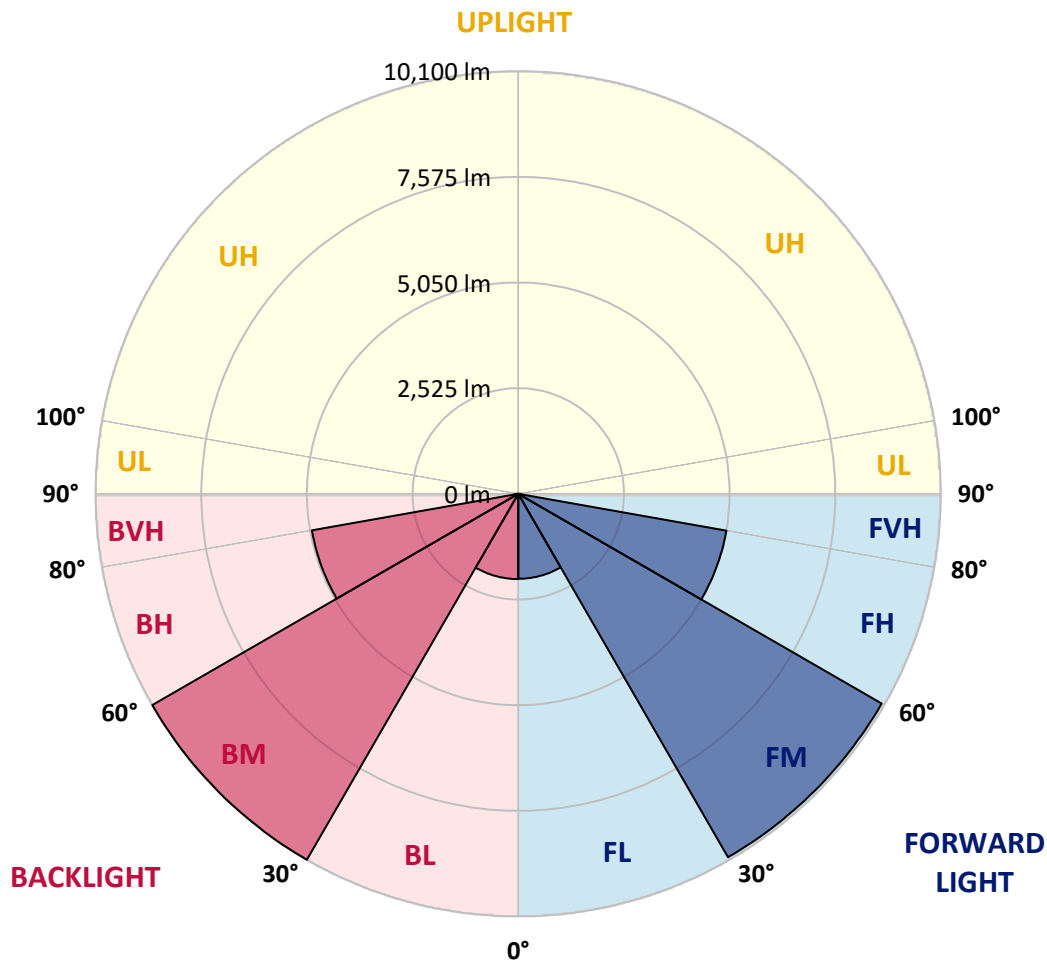
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2030.5	5.9			
FM (30°-60°)	10028.0	29.1			
FH (60°-80°)	5052.7	14.7			G3/7500
FVH (80°-90°)	74.8	0.2			G1/100
BL (0°-30°)	2038.4	5.9	B3/2500		
BM (30°-60°)	10100.3	29.4	B5		
BH (60°-80°)	5009.1	14.6	B5		G3/7500
BVH (80°-90°)	71.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1
2.5°	3980.8	3988.7	4059.7	4032.1	4055.7	4012.3	4043.9	4111.0	4032.1	4091.2
5°	4024.2	4036.0	4036.0	4063.6	4079.4	4071.5	4091.2	4063.6	4138.6	4107.0
7.5°	4182.0	4162.2	4130.7	4154.4	4158.3	4178.0	4197.8	4233.3	4221.4	4193.8
10°	4209.6	4193.8	4241.2	4245.1	4225.4	4209.6	4229.3	4229.3	4264.8	4272.7
12.5°	4256.9	4272.7	4268.8	4300.3	4304.3	4292.4	4324.0	4383.2	4367.4	4379.2
15°	4438.4	4418.7	4414.7	4446.3	4497.6	4422.6	4477.9	4473.9	4458.1	4481.8
17.5°	4596.2	4533.1	4560.7	4612.0	4592.3	4608.1	4679.1	4616.0	4631.7	4604.1
20°	4734.3	4683.0	4687.0	4706.7	4706.7	4754.0	4781.7	4758.0	4742.2	4738.3
22.5°	4888.2	4829.0	4832.9	4915.8	4943.4	4927.6	4907.9	4947.4	4955.2	4923.7
25°	5002.6	5065.7	5085.4	5124.9	5065.7	5109.1	5093.3	5168.3	5215.6	5152.5
27.5°	5302.4	5274.8	5326.1	5322.2	5369.5	5326.1	5353.7	5377.4	5397.1	5401.1
30°	5570.7	5582.5	5531.3	5669.3	5558.9	5629.9	5677.2	5689.1	5712.7	5712.7
32.5°	5854.8	5831.1	5913.9	5882.4	5862.7	5917.9	5866.6	6028.4	5933.7	5988.9
35°	6174.3	6174.3	6205.9	6292.7	6174.3	6138.8	6233.5	6300.6	6300.6	6201.9
37.5°	6533.3	6501.8	6541.2	6651.7	6561.0	6442.6	6616.2	6643.8	6624.1	6596.5
40°	6785.8	6778.0	6856.9	7002.8	6872.6	6849.0	6880.5	6955.5	6979.2	7006.8
42.5°	7211.9	7247.4	7476.3	7440.8	7334.2	7251.4	7243.5	7523.6	7456.5	7385.5
45°	7843.2	7811.6	7930.0	7933.9	7795.8	7614.3	7653.8	7910.2	8024.7	7866.8
47.5°	8344.2	8360.0	8442.9	8612.5	8292.9	8103.6	8249.5	8663.8	8628.3	8569.1
50°	9014.9	9085.9	9346.3	9287.1	9003.1	8770.3	9089.9	9480.5	9523.9	9306.9
52.5°	9942.0	10052.5	10194.5	10241.9	9969.7	9886.8	9906.5	10391.8	10285.3	10076.2
55°	10754.8	10806.1	11066.4	11457.0	11437.3	11038.8	11267.7	11449.1	11015.2	10585.1
57.5°	11102.0	11125.6	11851.6	12632.7	13098.3	13189.0	12928.6	12317.1	11283.4	10454.9
60°	10237.9	10462.8	11338.7	13102.2	15228.7	16278.1	14546.2	12415.7	10656.1	9650.1
62.5°	8182.5	8194.3	9496.2	12171.1	16554.3	19304.1	15165.6	11488.6	8983.4	7843.2
64°	5827.1	5937.6	7432.9	10774.5	16278.1	20535.1	15090.6	10277.4	7405.2	5787.7
65°	4182.0	4335.8	5779.8	9354.2	15631.1	20389.1	14865.7	9235.8	5988.9	4418.7
67.5°	1538.7	1601.8	2268.5	4679.1	11224.3	17374.9	11780.5	5077.5	2631.5	1874.0
70°	714.1	718.0	840.3	1546.5	4907.9	11618.8	5622.0	1905.6	990.3	785.1
72.5°	524.7	536.6	587.8	714.1	1444.0	4919.7	1846.4	781.2	580.0	512.9
75°	426.1	434.0	449.8	516.8	666.7	1317.7	749.6	540.5	461.6	414.3
77.5°	327.5	327.5	363.0	394.5	441.9	615.5	497.1	430.0	374.8	327.5
80°	236.7	240.7	284.1	307.7	299.8	406.4	359.0	355.1	307.7	256.4
82.5°	138.1	149.9	205.2	220.9	213.0	240.7	260.4	276.2	240.7	177.5
85°	78.9	82.9	118.4	122.3	122.3	114.4	149.9	165.7	161.8	110.5
87.5°	23.7	23.7	31.6	31.6	35.5	39.5	59.2	71.0	78.9	55.2
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°
4028.1	0°	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1	4028.1
4111.0	2.5°	4091.2	4032.1	4036.0	4051.8	4000.5	4020.2	4079.4	4036.0	4024.2	4000.5
4154.4	5°	4071.5	4134.6	4111.0	4118.8	4107.0	4051.8	4043.9	4079.4	4099.1	4063.6
4241.2	7.5°	4209.6	4182.0	4150.4	4162.2	4134.6	4182.0	4213.5	4142.5	4178.0	4158.3
4272.7	10°	4288.5	4237.2	4260.9	4253.0	4233.3	4280.6	4249.0	4241.2	4209.6	4166.2
4351.6	12.5°	4316.1	4375.3	4414.7	4347.7	4359.5	4335.8	4316.1	4316.1	4280.6	4268.8
4418.7	15°	4438.4	4489.7	4473.9	4525.2	4458.1	4481.8	4505.5	4446.3	4477.9	4391.1
4584.4	17.5°	4663.3	4619.9	4675.1	4608.1	4631.7	4679.1	4604.1	4604.1	4627.8	4580.4
4746.1	20°	4805.3	4785.6	4765.9	4769.8	4730.4	4773.8	4750.1	4738.3	4702.7	4718.5
4959.2	22.5°	4939.5	4911.8	4919.7	4931.6	4959.2	4939.5	4927.6	4939.5	4852.7	4931.6
5195.9	25°	5105.2	5180.1	5156.5	5207.7	5128.8	5180.1	5176.2	5101.2	5148.6	5117.0
5381.3	27.5°	5381.3	5341.9	5377.4	5314.3	5369.5	5373.4	5326.1	5452.3	5397.1	5389.2
5653.6	30°	5736.4	5708.8	5685.1	5649.6	5693.0	5657.5	5697.0	5708.8	5657.5	5618.0
5921.8	32.5°	5937.6	6012.6	6040.2	5953.4	5957.3	5977.1	5941.6	5906.0	5937.6	5949.4
6225.6	35°	6221.7	6292.7	6308.5	6241.4	6205.9	6304.5	6233.5	6351.9	6249.3	6253.2
6549.1	37.5°	6553.1	6572.8	6706.9	6632.0	6600.4	6553.1	6683.3	6667.5	6691.2	6501.8
6943.7	40°	6927.9	6998.9	7073.8	6884.5	6880.5	6923.9	6916.0	7006.8	6963.4	6935.8
7350.0	42.5°	7338.2	7488.1	7499.9	7373.7	7294.8	7286.9	7326.3	7527.6	7531.5	7350.0
7926.0	45°	7882.6	8048.3	8004.9	7760.3	7673.5	7661.7	7855.0	7941.8	8016.8	7945.7
8624.3	47.5°	8561.2	8671.7	8640.1	8415.2	8135.1	8214.0	8403.4	8675.6	8596.7	8502.0
9267.4	50°	9287.1	9417.3	9350.3	9125.4	8857.1	8857.1	9089.9	9437.1	9413.4	9228.0
9942.0	52.5°	10092.0	10281.3	10435.2	10115.6	9890.8	9926.3	10293.2	10419.4	10360.2	10230.1
10620.6	55°	10691.6	11054.6	11370.2	11386.0	11397.8	11393.9	11488.6	11614.8	11192.7	10983.6
10403.6	57.5°	10545.7	11232.1	12313.1	13047.0	13264.0	13378.4	13346.8	12762.9	11764.8	11078.3
9575.1	60°	9504.1	10624.6	12368.4	14723.7	16301.8	16144.0	15568.0	13260.0	11449.1	10289.2
7543.3	62.5°	7582.8	8932.1	11441.2	15197.1	19544.8	19497.5	16483.3	12111.9	9539.6	8072.0
5578.6	64°	5712.7	7133.0	10206.4	15074.8	20681.0	20728.4	16250.5	10699.5	7464.4	5712.7
4205.6	65°	4371.3	5689.1	8995.2	14822.3	20436.4	20464.0	15603.5	9239.8	5673.3	4055.7
1684.6	67.5°	1739.9	2422.4	4880.3	11240.0	17548.5	17473.5	11133.5	4470.0	2169.9	1412.4
729.9	70°	741.7	923.2	1712.2	5326.1	11749.0	11532.0	4793.5	1451.9	804.8	674.6
501.0	72.5°	508.9	564.2	733.8	1645.2	4884.2	4769.8	1365.1	674.6	548.4	505.0
398.5	75°	410.3	449.8	532.6	690.4	1294.0	1246.7	643.1	497.1	437.9	406.4
315.6	77.5°	319.6	359.0	418.2	477.4	591.8	587.8	430.0	374.8	339.3	315.6
236.7	80°	252.5	291.9	331.4	339.3	386.6	378.7	291.9	295.9	276.2	228.8
161.8	82.5°	173.6	236.7	264.3	240.7	228.8	228.8	209.1	209.1	193.3	142.0
98.6	85°	106.5	157.8	165.7	142.0	106.5	106.5	114.4	110.5	102.6	75.0
51.3	87.5°	55.2	75.0	67.1	55.2	35.5	35.5	31.6	23.7	23.7	19.7
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°
4028.1
3988.7
4134.6
4118.8
4229.3
4280.6
4458.1
4521.3
4750.1
4821.1
5093.3
5373.4
5543.1
5937.6
6146.7
6596.5
6868.7
7271.1
7878.7
8423.1
9156.9
10170.9
10770.6
11149.3
10143.3
7981.3
5574.6
3905.8
1384.8
670.7
505.0
402.4
307.7
224.9
130.2
71.0
19.7
0.0

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