

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: P574847

Luminaire Tested: **EPH-VN-07-730-U-5NQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574847
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-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

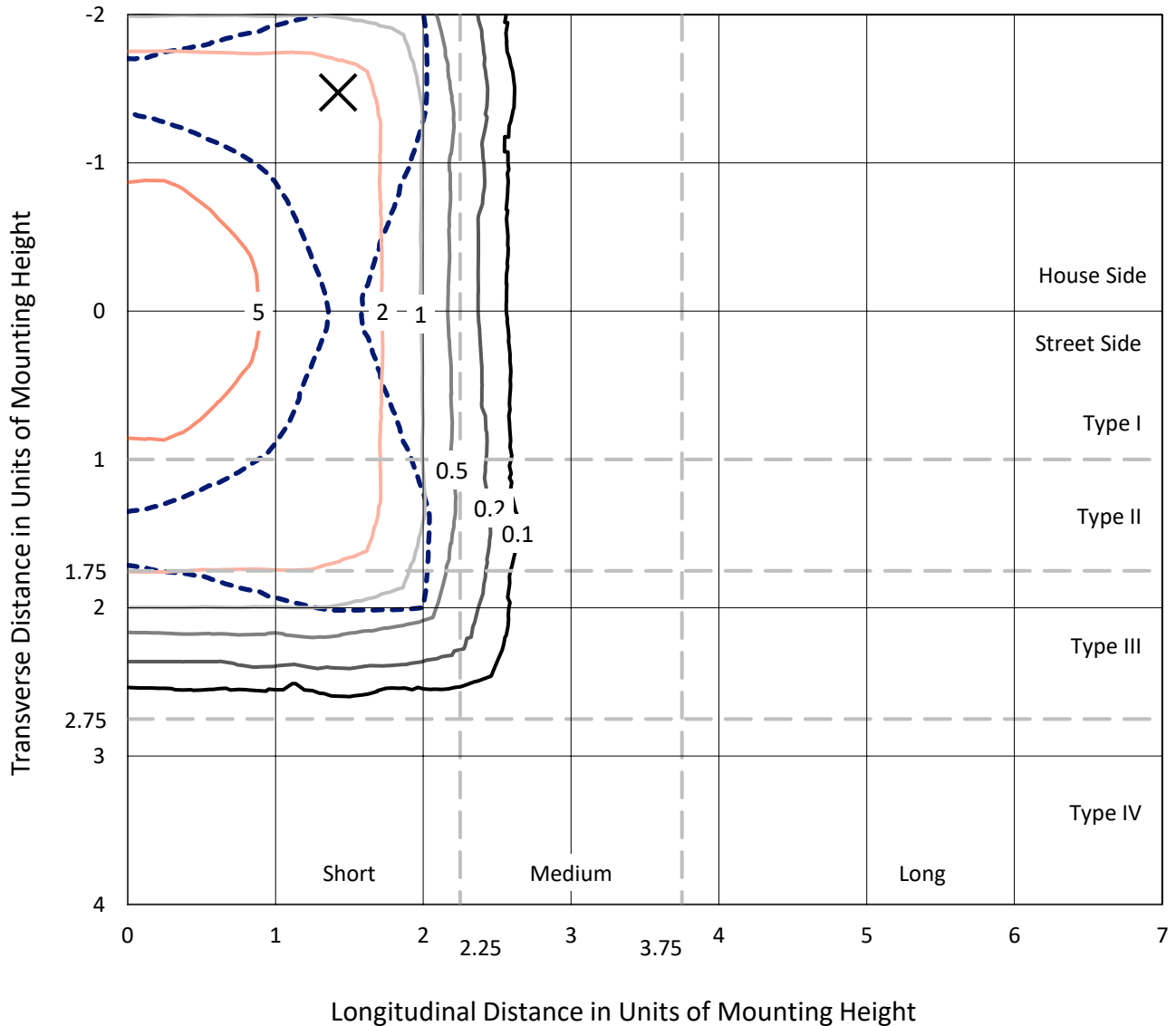
Lumens per Lamp: N/A
Luminaire Lumens: 51269.6 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 532.7
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

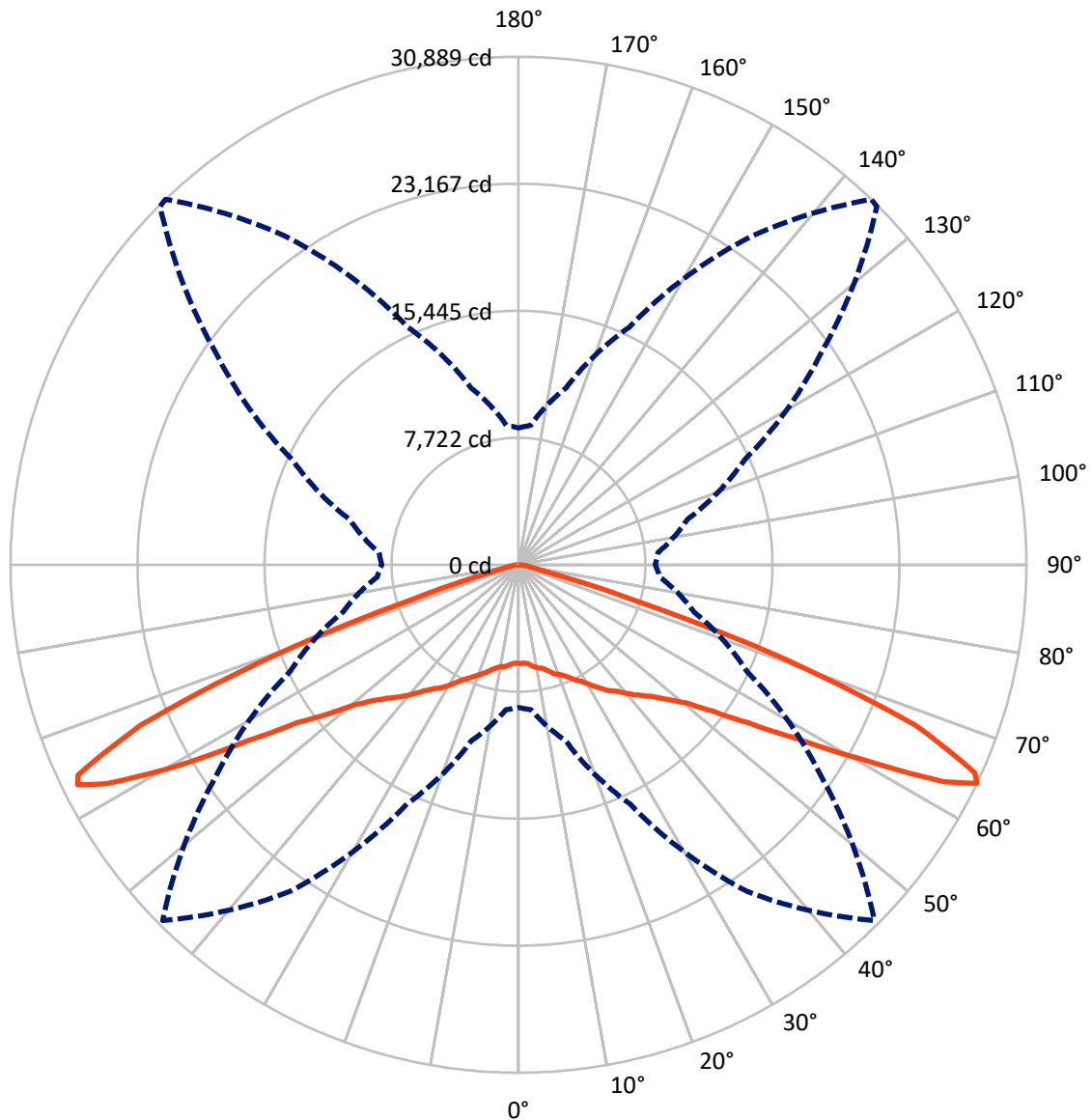
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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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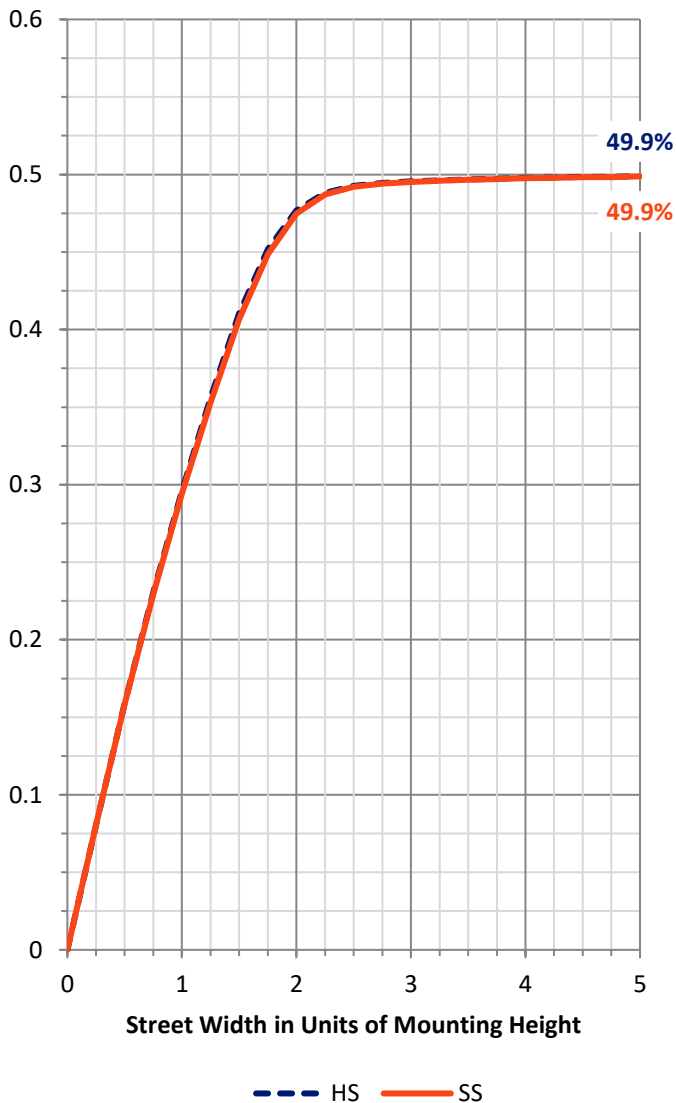
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25659.3	0.0	25659.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25610.4	0.0	25610.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	51269.6	0.0	51269.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.8	1.2
10°-20°	1900.9	3.7
20°-30°	3572.6	7.0
30°-40°	5891.9	11.5
40°-50°	9214.5	18.0
50°-60°	14888.4	29.0
60°-70°	13406.1	26.1
70°-80°	1588.0	3.1
80°-90°	217.4	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°	51269.6	100.0
0°-180°	51269.6	100.0

Coefficient of Utilization



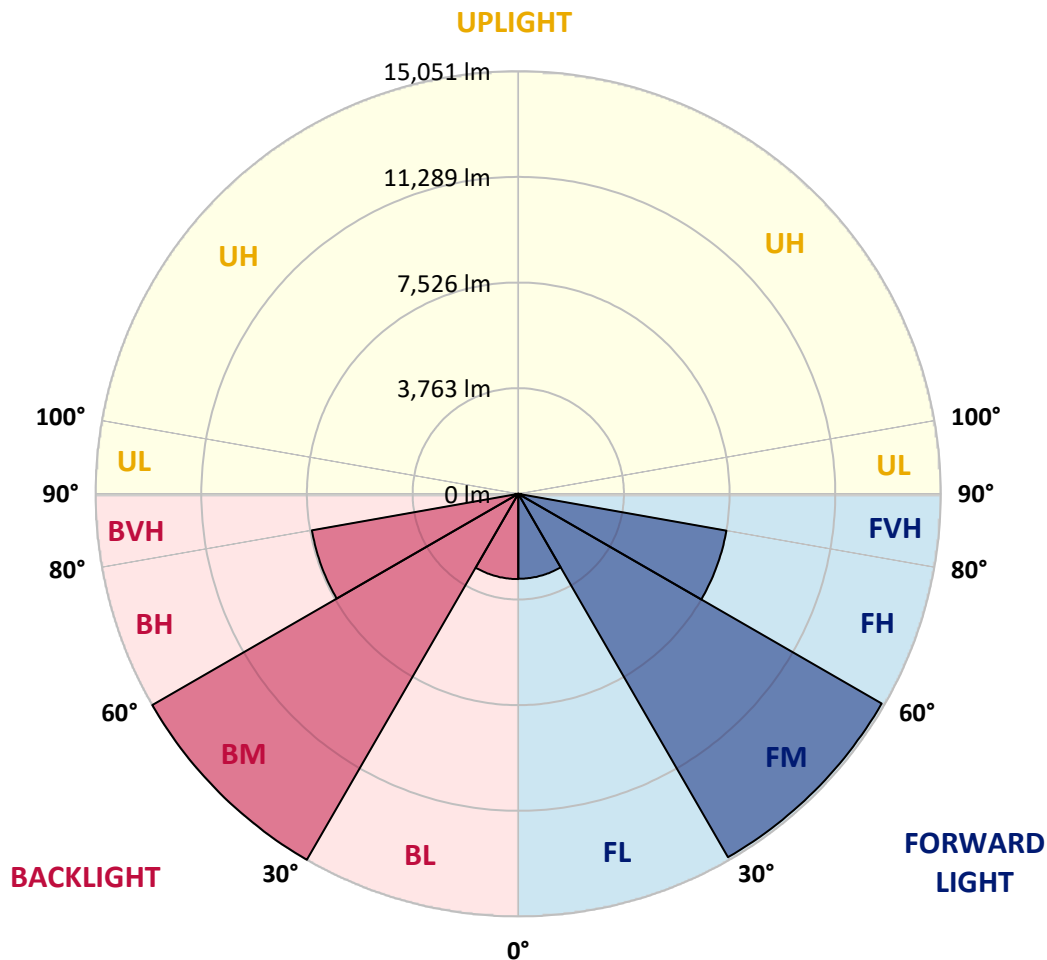
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3025.8	5.9			
FM (30°-60°)	14943.5	29.1			
FH (60°-80°)	7529.5	14.7			G4/12000
FVH (80°-90°)	111.5	0.2			G2/225
BL (0°-30°)	3037.5	5.9	B4/5000		
BM (30°-60°)	15051.3	29.4	B5		
BH (60°-80°)	7464.5	14.6	B5		G3/7500
BVH (80°-90°)	105.9	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6
2.5°	5932.1	5943.8	6049.7	6008.5	6043.8	5979.1	6026.1	6126.1	6008.5	6096.7
5°	5996.7	6014.4	6014.4	6055.5	6079.1	6067.3	6096.7	6055.5	6167.2	6120.2
7.5°	6231.9	6202.5	6155.5	6190.8	6196.6	6226.0	6255.4	6308.3	6290.7	6249.5
10°	6273.1	6249.5	6320.1	6326.0	6296.6	6273.1	6302.5	6302.5	6355.4	6367.1
12.5°	6343.6	6367.1	6361.3	6408.3	6414.2	6396.5	6443.6	6531.7	6508.2	6525.9
15°	6614.1	6584.7	6578.8	6625.8	6702.2	6590.5	6672.8	6667.0	6643.5	6678.7
17.5°	6849.2	6755.2	6796.3	6872.7	6843.3	6866.9	6972.7	6878.6	6902.1	6861.0
20°	7055.0	6978.6	6984.4	7013.8	7013.8	7084.4	7125.5	7090.3	7066.8	7060.9
22.5°	7284.3	7196.1	7202.0	7325.4	7366.6	7343.1	7313.7	7372.5	7384.2	7337.2
25°	7454.8	7548.8	7578.2	7637.0	7548.8	7613.5	7590.0	7701.7	7772.3	7678.2
27.5°	7901.6	7860.4	7936.9	7931.0	8001.5	7936.9	7978.0	8013.3	8042.7	8048.6
30°	8301.4	8319.0	8242.6	8448.4	8283.7	8389.6	8460.1	8477.7	8513.0	8513.0
32.5°	8724.7	8689.4	8812.9	8765.8	8736.4	8818.7	8742.3	8983.4	8842.3	8924.6
35°	9200.9	9200.9	9247.9	9377.3	9200.9	9148.0	9289.1	9389.0	9389.0	9242.0
37.5°	9735.9	9688.9	9747.6	9912.3	9777.0	9600.7	9859.4	9900.5	9871.1	9830.0
40°	10112.2	10100.4	10218.0	10435.5	10241.5	10206.2	10253.3	10365.0	10400.2	10441.4
42.5°	10747.1	10800.0	11141.0	11088.1	10929.4	10805.9	10794.1	11211.6	11111.6	11005.8
45°	11687.8	11640.7	11817.1	11823.0	11617.2	11346.8	11405.6	11787.7	11958.2	11723.0
47.5°	12434.4	12457.9	12581.4	12834.2	12358.0	12075.8	12293.3	12910.6	12857.7	12769.5
50°	13433.9	13539.7	13927.7	13839.5	13416.2	13069.4	13545.6	14127.6	14192.3	13868.9
52.5°	14815.5	14980.1	15191.8	15262.3	14856.6	14733.2	14762.6	15485.7	15327.0	15015.4
55°	16026.6	16103.0	16491.0	17073.1	17043.7	16449.9	16790.9	17061.3	16414.6	15773.8
57.5°	16544.0	16579.2	17661.0	18825.1	19518.8	19654.0	19266.0	18354.7	16814.4	15579.8
60°	15256.4	15591.5	16896.7	19524.7	22693.6	24257.4	21676.5	18501.7	15879.6	14380.4
62.5°	12193.4	12211.0	14151.1	18137.2	24669.0	28766.7	22599.5	17120.1	13386.8	11687.8
64°	8683.5	8848.1	11076.3	16056.0	24257.4	30601.0	22487.8	15315.2	11035.2	8624.7
65°	6231.9	6461.2	8613.0	13939.5	23293.2	30383.5	22152.7	13763.1	8924.6	6584.7
67.5°	2292.9	2386.9	3380.5	6972.7	16726.2	25891.8	17555.2	7566.5	3921.4	2792.6
70°	1064.1	1070.0	1252.3	2304.6	7313.7	17314.1	8377.8	2839.6	1475.7	1170.0
72.5°	781.9	799.6	876.0	1064.1	2151.8	7331.3	2751.4	1164.1	864.2	764.3
75°	634.9	646.7	670.2	770.2	993.6	1963.6	1117.0	805.4	687.9	617.3
77.5°	488.0	488.0	540.9	587.9	658.5	917.1	740.8	640.8	558.5	488.0
80°	352.7	358.6	423.3	458.6	446.8	605.6	535.0	529.1	458.6	382.1
82.5°	205.8	223.4	305.7	329.2	317.5	358.6	388.0	411.5	358.6	264.6
85°	117.6	123.5	176.4	182.3	182.3	170.5	223.4	246.9	241.0	164.6
87.5°	35.3	35.3	47.0	47.0	52.9	58.8	88.2	105.8	117.6	82.3
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°
6002.6	0°	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6	6002.6
6126.1	2.5°	6096.7	6008.5	6014.4	6037.9	5961.5	5990.9	6079.1	6014.4	5996.7	5961.5
6190.8	5°	6067.3	6161.4	6126.1	6137.8	6120.2	6037.9	6026.1	6079.1	6108.4	6055.5
6320.1	7.5°	6273.1	6231.9	6184.9	6202.5	6161.4	6231.9	6278.9	6173.1	6226.0	6196.6
6367.1	10°	6390.6	6314.2	6349.5	6337.7	6308.3	6378.9	6331.9	6320.1	6273.1	6208.4
6484.7	12.5°	6431.8	6520.0	6578.8	6478.8	6496.5	6461.2	6431.8	6431.8	6378.9	6361.3
6584.7	15°	6614.1	6690.5	6667.0	6743.4	6643.5	6678.7	6714.0	6625.8	6672.8	6543.5
6831.6	17.5°	6949.2	6884.5	6966.8	6866.9	6902.1	6972.7	6861.0	6861.0	6896.3	6825.7
7072.6	20°	7160.8	7131.4	7102.0	7107.9	7049.1	7113.8	7078.5	7060.9	7008.0	7031.5
7390.1	22.5°	7360.7	7319.6	7331.3	7349.0	7390.1	7360.7	7343.1	7360.7	7231.4	7349.0
7742.9	25°	7607.6	7719.3	7684.1	7760.5	7642.9	7719.3	7713.5	7601.8	7672.3	7625.3
8019.2	27.5°	8019.2	7960.4	8013.3	7919.2	8001.5	8007.4	7936.9	8125.0	8042.7	8030.9
8424.8	30°	8548.3	8507.1	8471.9	8419.0	8483.6	8430.7	8489.5	8507.1	8430.7	8371.9
8824.6	32.5°	8848.1	8959.8	9001.0	8871.7	8877.5	8906.9	8854.0	8801.1	8848.1	8865.8
9277.3	35°	9271.4	9377.3	9400.8	9300.8	9247.9	9394.9	9289.1	9465.4	9312.6	9318.5
9759.4	37.5°	9765.3	9794.7	9994.6	9882.9	9835.8	9765.3	9959.3	9935.8	9971.1	9688.9
10347.3	40°	10323.8	10429.6	10541.3	10259.1	10253.3	10317.9	10306.2	10441.4	10376.7	10335.6
10952.9	42.5°	10935.2	11158.6	11176.3	10988.2	10870.6	10858.8	10917.6	11217.4	11223.3	10952.9
11811.2	45°	11746.6	11993.5	11928.8	11564.3	11435.0	11417.3	11705.4	11834.8	11946.5	11840.6
12851.8	47.5°	12757.8	12922.4	12875.4	12540.2	12122.8	12240.4	12522.6	12928.3	12810.7	12669.6
13810.1	50°	13839.5	14033.6	13933.6	13598.5	13198.7	13198.7	13545.6	14063.0	14027.7	13751.4
14815.5	52.5°	15038.9	15321.1	15550.4	15074.2	14739.1	14792.0	15338.7	15526.9	15438.7	15244.7
15826.7	55°	15932.5	16473.4	16943.7	16967.3	16984.9	16979.0	17120.1	17308.2	16679.2	16367.6
15503.3	57.5°	15715.0	16738.0	18348.9	19442.4	19765.7	19936.2	19889.2	19019.1	17531.7	16508.7
14268.7	60°	14162.9	15832.6	18431.2	21941.0	24292.7	24057.5	23199.2	19759.9	17061.3	15332.9
11241.0	62.5°	11299.7	13310.4	17049.6	22646.5	29125.4	29054.8	24563.1	18049.0	14215.8	12028.8
8313.1	64°	8513.0	10629.5	15209.4	22464.3	30818.6	30889.1	24216.3	15944.3	11123.4	8513.0
6267.2	65°	6514.1	8477.7	13404.5	22088.0	30454.1	30495.2	23252.1	13769.0	8454.2	6043.8
2510.4	67.5°	2592.7	3609.8	7272.5	16749.7	26150.5	26038.8	16591.0	6661.1	3233.5	2104.7
1087.6	70°	1105.3	1375.7	2551.6	7936.9	17508.1	17184.8	7143.2	2163.5	1199.3	1005.3
746.7	72.5°	758.4	840.7	1093.5	2451.6	7278.4	7107.9	2034.2	1005.3	817.2	752.5
593.8	75°	611.4	670.2	793.7	1028.9	1928.4	1857.8	958.3	740.8	652.6	605.6
470.3	77.5°	476.2	535.0	623.2	711.4	881.9	876.0	640.8	558.5	505.6	470.3
352.7	80°	376.3	435.1	493.8	505.6	576.2	564.4	435.1	440.9	411.5	341.0
241.0	82.5°	258.7	352.7	393.9	358.6	341.0	341.0	311.6	311.6	288.1	211.6
147.0	85°	158.7	235.2	246.9	211.6	158.7	158.7	170.5	164.6	152.9	111.7
76.4	87.5°	82.3	111.7	99.9	82.3	52.9	52.9	47.0	35.3	35.3	29.4
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°
6002.6
5943.8
6161.4
6137.8
6302.5
6378.9
6643.5
6737.5
7078.5
7184.3
7590.0
8007.4
8260.2
8848.1
9159.7
9830.0
10235.6
10835.3
11740.7
12552.0
13645.5
15156.5
16050.1
16614.5
15115.3
11893.5
8307.3
5820.4
2063.6
999.5
752.5
599.7
458.6
335.1
194.0
105.8
29.4
0.0

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