

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: P574981

Luminaire Tested: **EPH-VN-03-750-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574981
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

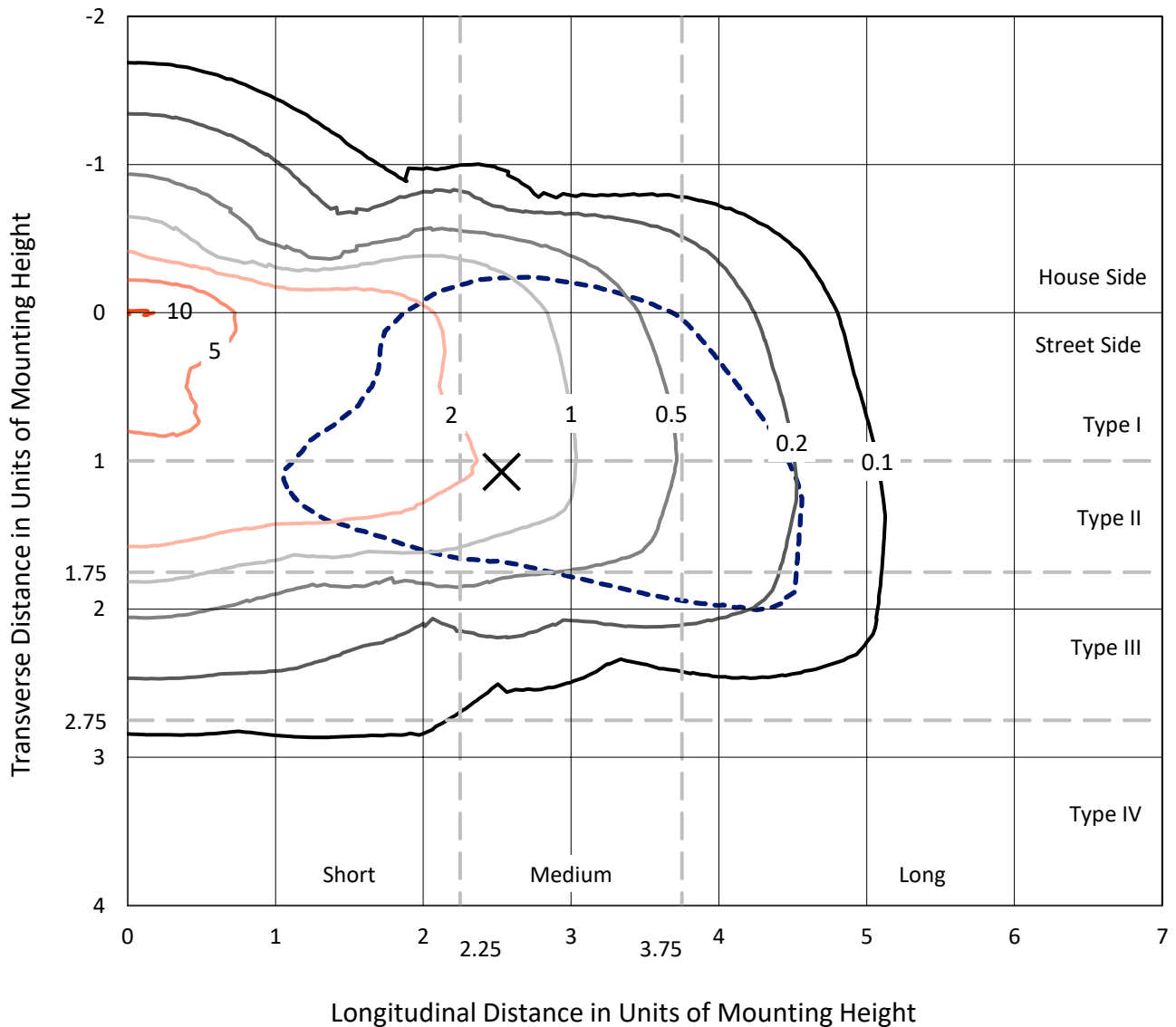
Lumens per Lamp: N/A
Luminaire Lumens: 27509.9 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

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

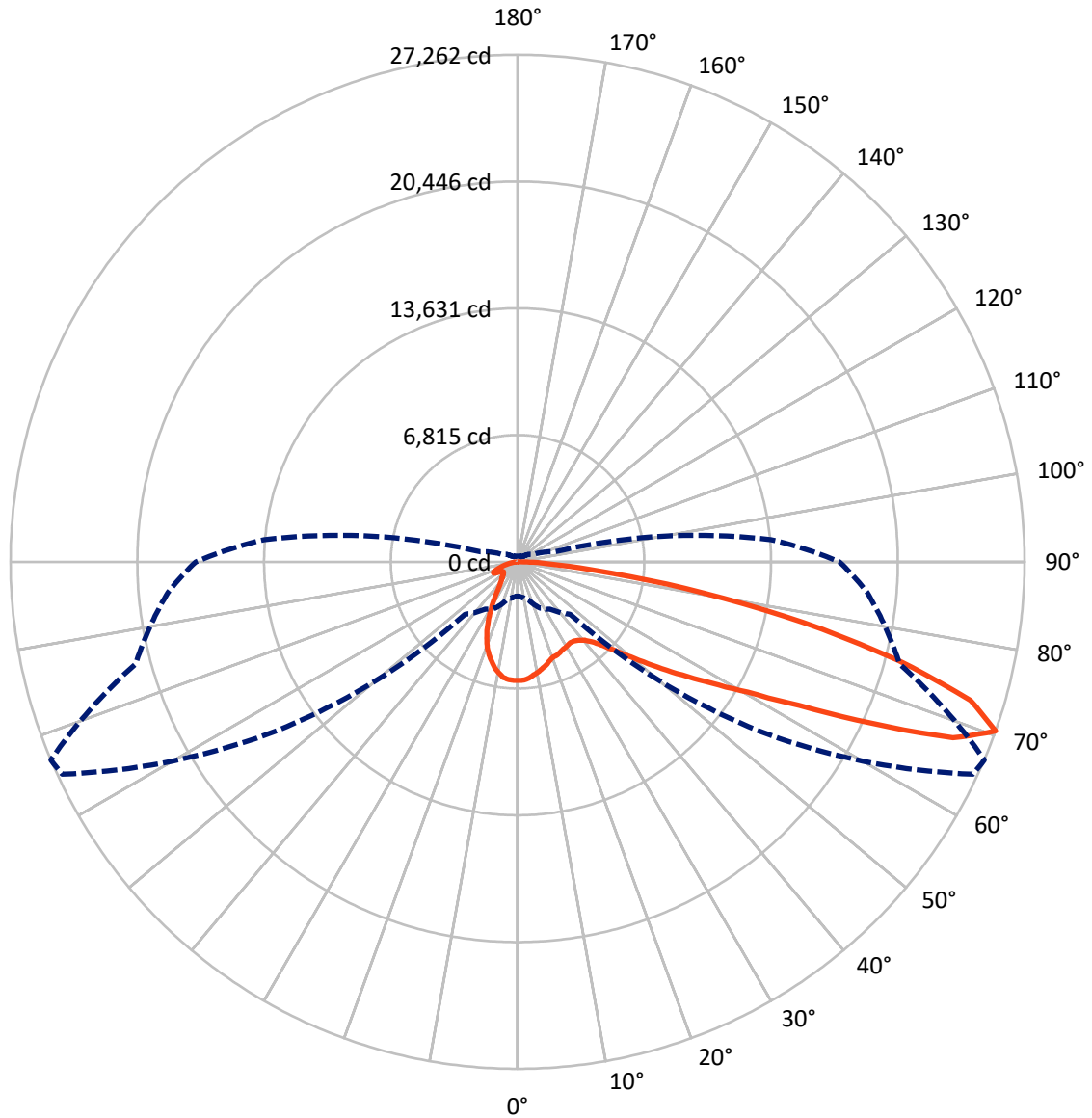
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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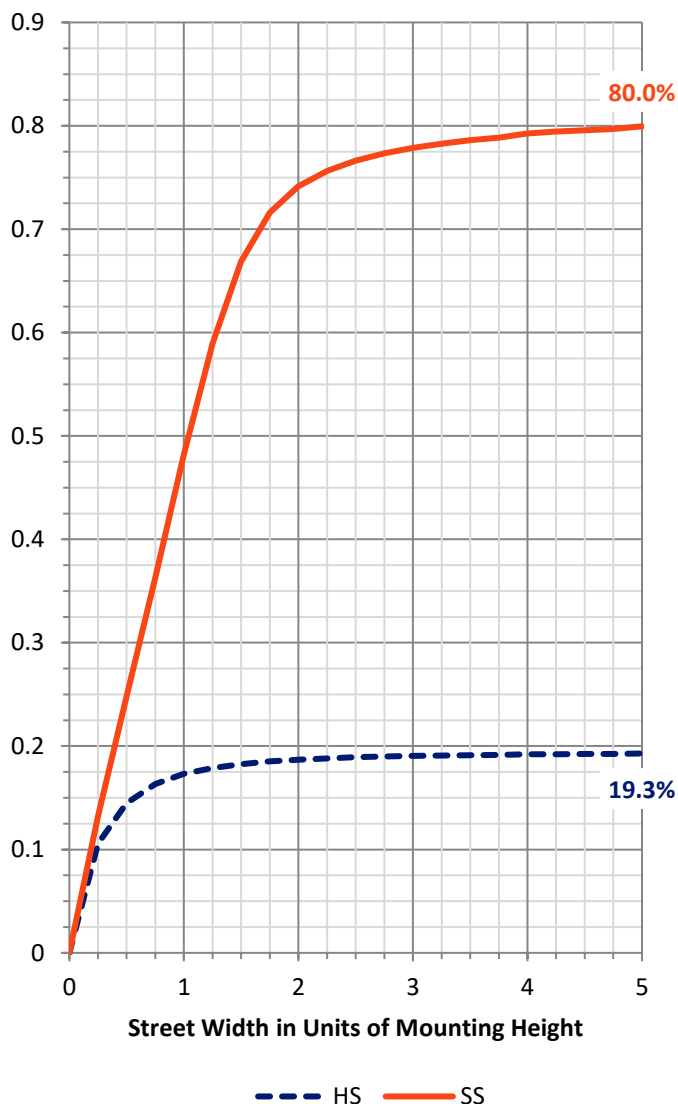
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5357.8	0.0	5357.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22152.0	0.0	22152.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	27509.9	0.0	27509.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.7	2.0
10°-20°	1330.8	4.8
20°-30°	1797.1	6.5
30°-40°	2404.7	8.7
40°-50°	3536.1	12.9
50°-60°	5511.9	20.0
60°-70°	6789.7	24.7
70°-80°	4797.5	17.4
80°-90°	786.3	2.9
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°	27509.9	100.0
0°-180°	27509.9	100.0

Coefficient of Utilization

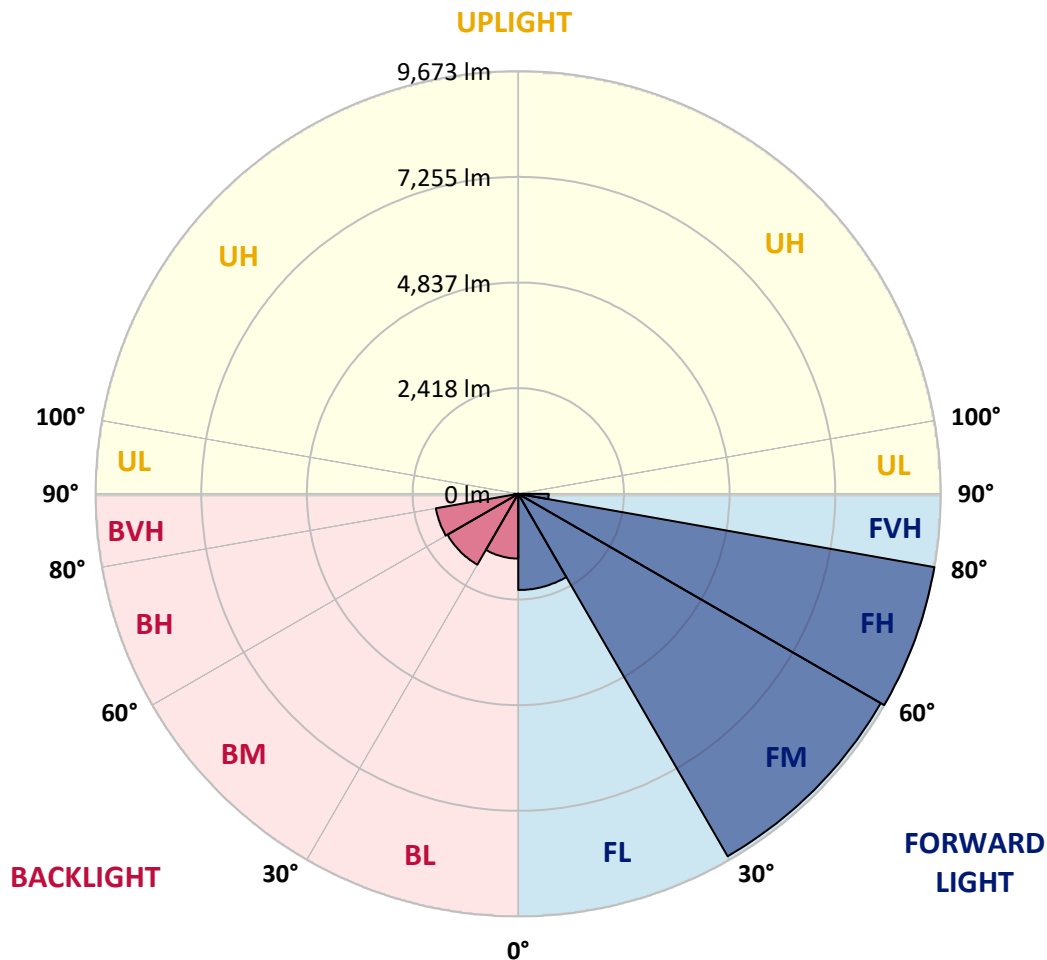


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2202.0	8.0			
FM (30°-60°)	9581.1	34.8			
FH (60°-80°)	9673.4	35.2			G4/12000
FVH (80°-90°)	695.6	2.5			G4/750
BL (0°-30°)	1481.6	5.4	B3/2500		
BM (30°-60°)	1871.6	6.8	B2/2500		
BH (60°-80°)	1913.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	90.7	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4
2.5°	5929.9	5996.9	6021.2	6057.8	6152.2	6222.3	6264.9	6313.6	6371.5	6420.2
5°	5515.7	5552.2	5610.1	5649.7	5768.5	5957.3	6085.2	6292.3	6286.2	6362.4
7.5°	5113.6	5150.2	5177.6	5256.8	5427.3	5597.9	5832.4	6167.4	6143.1	6319.7
10°	4863.9	4836.5	4845.6	4979.6	5113.6	5305.5	5600.9	5942.1	6030.4	6304.5
12.5°	4629.4	4598.9	4672.0	4757.3	4921.8	5095.4	5448.7	5756.3	5890.3	6249.7
15°	4483.2	4461.9	4553.2	4589.8	4784.7	4991.8	5241.6	5616.2	5762.4	6182.7
17.5°	4401.0	4419.2	4452.7	4531.9	4656.8	4833.4	5107.5	5521.8	5585.7	6100.4
20°	4416.2	4437.5	4440.6	4474.1	4559.3	4696.4	4976.6	5421.2	5463.9	6085.2
22.5°	4538.0	4507.6	4519.7	4498.4	4522.8	4629.4	4876.1	5287.2	5451.7	5957.3
25°	4720.8	4678.1	4672.0	4598.9	4553.2	4583.7	4857.8	5253.7	5360.3	5917.7
27.5°	5043.6	4979.6	4979.6	4870.0	4684.2	4635.5	4806.0	5198.9	5293.3	5881.1
30°	5354.2	5354.2	5357.3	5202.0	4994.9	4754.3	4827.3	5177.6	5238.5	5771.5
32.5°	5731.9	5722.8	5707.5	5631.4	5311.6	4952.2	4930.9	5150.2	5180.6	5735.0
35°	6100.4	6076.1	6194.8	6127.8	5802.0	5339.0	5037.5	5162.4	5229.4	5680.1
37.5°	6377.6	6392.8	6639.5	6682.1	6401.9	5777.6	5339.0	5284.2	5348.2	5759.3
40°	6737.0	6797.9	7029.4	7172.5	7001.9	6356.3	5817.2	5488.3	5533.9	5936.0
42.5°	7209.0	7260.8	7556.2	7742.0	7693.3	7093.3	6289.3	5914.6	5878.1	6231.4
45°	7833.4	7842.5	8141.0	8396.8	8497.4	7863.9	7038.5	6453.7	6423.3	6740.0
47.5°	8576.5	8567.4	8753.2	9027.3	9298.4	8783.6	7900.4	7273.0	7163.4	7467.9
50°	9295.3	9255.7	9298.4	9648.6	10169.4	9934.9	8948.1	8275.0	8165.4	8332.9
52.5°	9691.2	9740.0	9624.2	10087.2	11095.3	11296.3	10336.9	9472.0	9377.5	9459.8
55°	9414.1	9514.6	9438.5	9877.0	11500.4	12956.2	12133.9	10857.7	10735.9	10705.4
57.5°	8235.4	8418.2	8433.4	9127.8	11360.3	14241.4	14661.7	12493.2	12310.5	11999.8
60°	6322.8	6505.5	6645.6	7467.9	10160.3	15008.9	17591.6	14820.1	14217.1	13413.0
62.5°	4431.4	4556.3	4696.4	5202.0	7833.4	14558.2	20125.6	18097.2	16985.6	14902.3
65°	3228.4	3325.8	3469.0	3767.5	4812.1	12045.5	21301.2	21989.6	20935.8	16796.7
67.5°	2430.4	2491.3	2680.2	3158.3	3335.0	7440.5	20083.0	26101.2	25248.4	18901.3
70°	1839.6	1891.3	2068.0	2722.8	3115.7	3989.8	15843.4	27017.9	27261.6	21261.7
72.5°	1267.0	1324.9	1522.8	2269.0	2966.5	3164.4	9944.0	24544.9	25467.7	22233.2
75°	776.6	816.2	932.0	1720.8	2945.1	3094.4	5473.0	20113.4	21091.1	20542.9
77.5°	548.2	545.2	566.5	1008.1	2552.3	3112.6	3374.6	14737.9	15688.1	15139.9
80°	399.0	402.0	423.3	603.0	1733.0	3164.4	2658.8	9870.9	10154.2	7894.3
82.5°	240.6	252.8	304.6	408.1	1041.6	2856.8	2457.8	5485.2	5131.9	2534.0
85°	127.9	127.9	179.7	258.9	554.3	2132.0	2366.5	2610.1	2186.8	785.8
87.5°	30.5	30.5	51.8	103.6	222.3	1020.3	1614.2	1038.6	831.5	265.0
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°
6368.4	0°	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4
6450.7	2.5°	6438.5	6401.9	6447.6	6356.3	6283.2	6286.2	6173.5	6167.4	6152.2	6073.0
6478.1	5°	6511.6	6481.1	6429.4	6328.9	6167.4	6006.0	5908.6	5783.7	5731.9	5704.5
6499.4	7.5°	6581.6	6526.8	6377.6	6237.5	5987.7	5683.2	5506.5	5339.0	5125.8	5101.5
6560.3	10°	6599.9	6484.2	6292.3	5993.8	5661.9	5323.8	4921.8	4611.1	4446.6	4318.7
6587.7	12.5°	6572.5	6523.8	6155.3	5771.5	5269.0	4739.0	4270.0	3831.4	3526.9	3368.5
6545.1	15°	6569.5	6484.2	6003.0	5433.4	4790.8	4099.4	3432.4	2905.5	2585.8	2454.8
6536.0	17.5°	6572.5	6368.4	5823.3	5092.3	4227.4	3292.3	2558.3	2125.9	1949.2	1930.9
6560.3	20°	6511.6	6283.2	5634.4	4690.3	3520.8	2473.1	1857.8	1681.2	1681.2	1705.6
6508.5	22.5°	6456.8	6155.3	5336.0	4193.9	2802.0	1790.8	1510.6	1458.9	1516.7	1559.4
6505.5	25°	6380.6	6048.7	5031.4	3679.1	2132.0	1443.6	1312.7	1324.9	1379.7	1455.8
6435.4	27.5°	6271.0	5862.9	4669.0	3082.2	1586.8	1245.7	1212.2	1218.3	1276.1	1309.6
6341.0	30°	6146.1	5674.0	4334.0	2488.3	1257.9	1142.1	1139.1	1154.3	1163.4	1181.7
6313.6	32.5°	5987.7	5424.3	3977.6	1934.0	1133.0	1084.2	1072.1	1062.9	1072.1	1069.0
6228.3	35°	5875.1	5290.3	3615.2	1474.1	1062.9	1032.5	1023.3	1008.1	995.9	977.7
6228.3	37.5°	5844.6	5156.3	3234.5	1203.0	1008.1	992.9	962.4	935.0	919.8	910.6
6362.4	40°	5826.3	5068.0	2862.9	1056.8	962.4	947.2	910.6	874.1	858.9	849.7
6563.4	42.5°	5890.3	5019.2	2485.2	983.7	922.8	895.4	855.8	813.2	810.1	804.1
6931.9	45°	6115.7	5080.1	2135.0	932.0	883.2	837.6	785.8	764.5	761.4	755.3
7544.1	47.5°	6627.3	5232.4	1836.5	898.5	840.6	801.0	746.2	715.7	712.7	709.6
8463.8	50°	7333.9	5701.4	1586.8	858.9	813.2	758.4	706.6	673.1	667.0	654.8
9688.2	52.5°	8442.5	6490.3	1437.5	837.6	764.5	718.8	664.0	627.4	612.2	600.0
11080.1	55°	9691.2	7467.9	1410.1	801.0	712.7	670.0	621.3	584.8	569.5	554.3
12386.6	57.5°	11113.6	8762.3	1605.1	776.6	676.1	621.3	566.5	533.0	520.8	505.6
13644.5	60°	12438.4	10053.7	2211.1	740.1	642.6	575.6	520.8	487.3	472.1	456.8
15191.7	62.5°	13970.4	11652.6	3237.5	740.1	612.2	526.9	472.1	447.7	438.6	423.3
16760.2	65°	15782.5	13306.4	3986.8	785.8	603.0	484.3	426.4	402.0	392.9	383.8
18021.1	67.5°	17162.2	14256.7	3429.4	907.6	642.6	447.7	380.7	365.5	359.4	350.2
18867.8	70°	17308.4	13678.0	2068.0	980.7	682.2	411.2	341.1	325.9	325.9	316.7
17960.2	72.5°	15995.7	12136.9	1391.9	874.1	618.3	368.5	301.5	289.3	283.2	277.2
15712.5	75°	13385.6	10294.3	1099.5	697.5	475.1	304.6	261.9	249.7	240.6	237.6
10662.8	77.5°	8990.7	6691.3	813.2	545.2	350.2	246.7	219.3	207.1	198.0	194.9
4206.0	80°	3453.8	2549.2	523.9	395.9	246.7	194.9	173.6	161.4	155.3	146.2
1157.3	82.5°	1017.2	825.4	292.4	243.7	158.4	134.0	124.9	115.7	106.6	97.5
429.4	85°	420.3	377.7	179.7	127.9	97.5	79.2	73.1	64.0	54.8	48.7
176.6	87.5°	194.9	161.4	82.2	48.7	33.5	18.3	9.1	3.0	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>
6368.4
6100.4
5716.7
5058.8
4270.0
3325.8
2454.8
1946.2
1714.7
1577.6
1449.7
1303.5
1178.7
1059.9
974.6
904.6
852.8
813.2
761.4
709.6
654.8
600.0
548.2
499.5
456.8
420.3
380.7
344.2
310.7
274.1
231.5
185.8
140.1
94.4
42.6
0.0
0.0

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