

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: P575068

Luminaire Tested: **EPH-VN-04-760-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575068
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-760-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

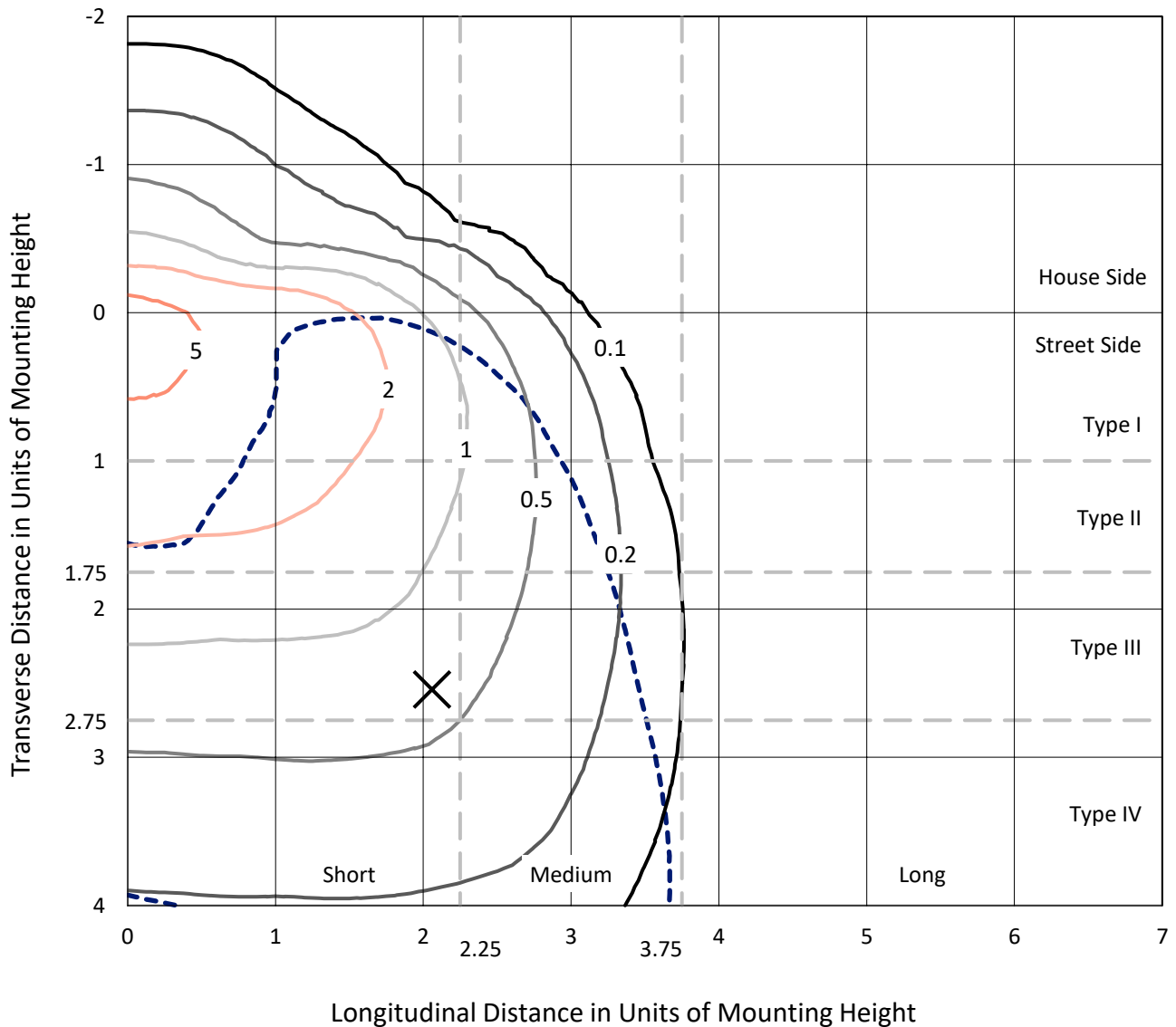
Lumens per Lamp: N/A
Luminaire Lumens: 34605 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

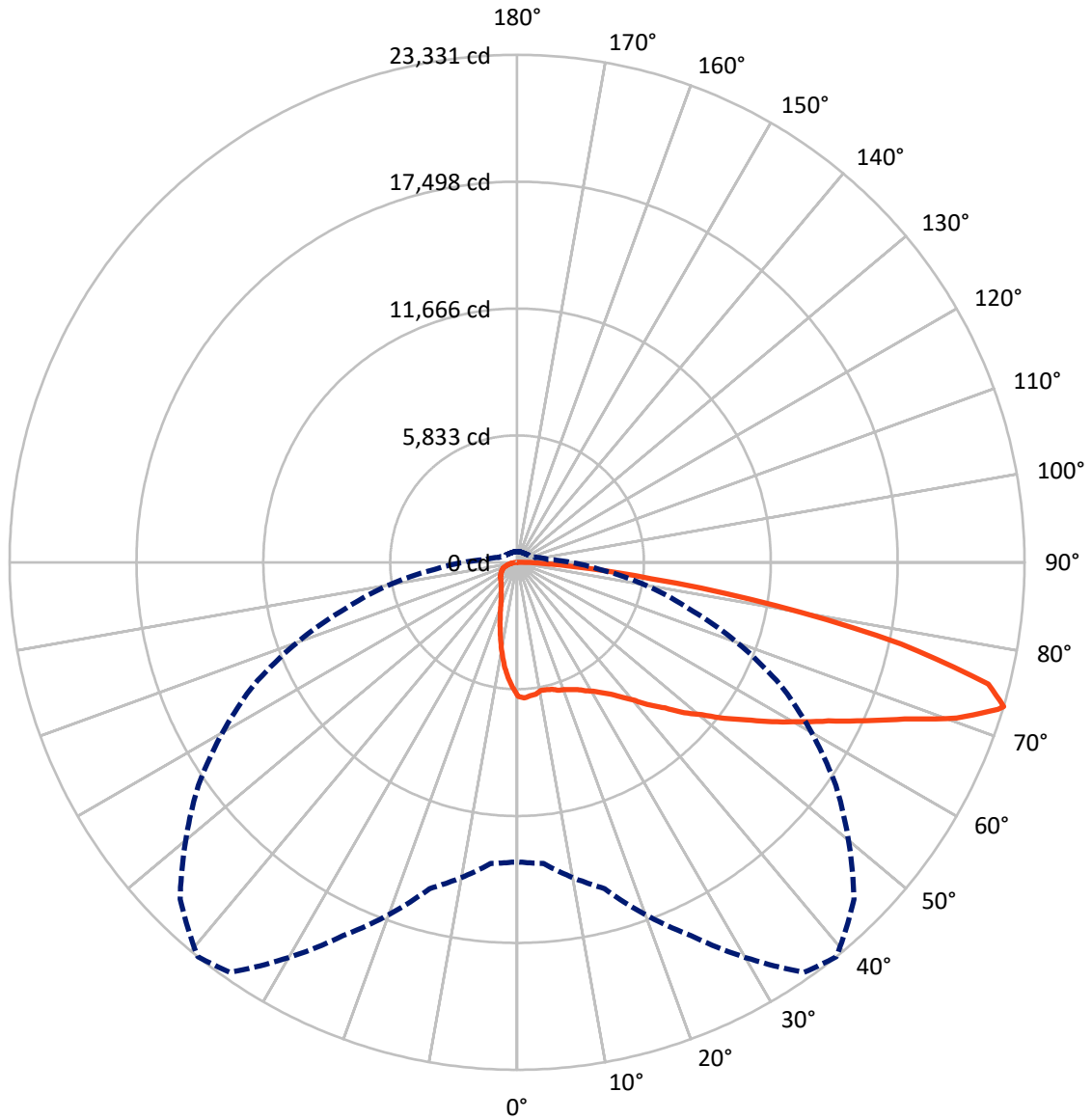
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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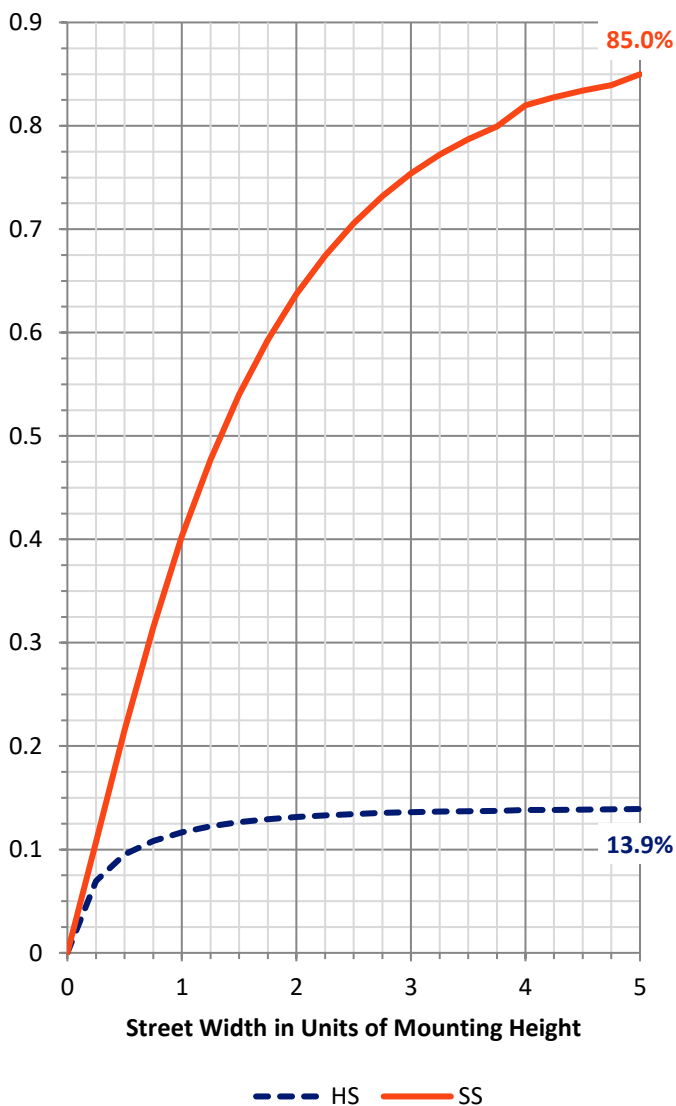
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4864.5	0.0	4864.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	29740.5	0.0	29740.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	34605.0	0.0	34605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.7	1.5
10°-20°	1359.4	3.9
20°-30°	2077.2	6.0
30°-40°	3028.7	8.8
40°-50°	4576.7	13.2
50°-60°	6627.3	19.2
60°-70°	8420.3	24.3
70°-80°	6825.9	19.7
80°-90°	1154.9	3.3
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°	34605.0	100.0
0°-180°	34605.0	100.0

Coefficient of Utilization



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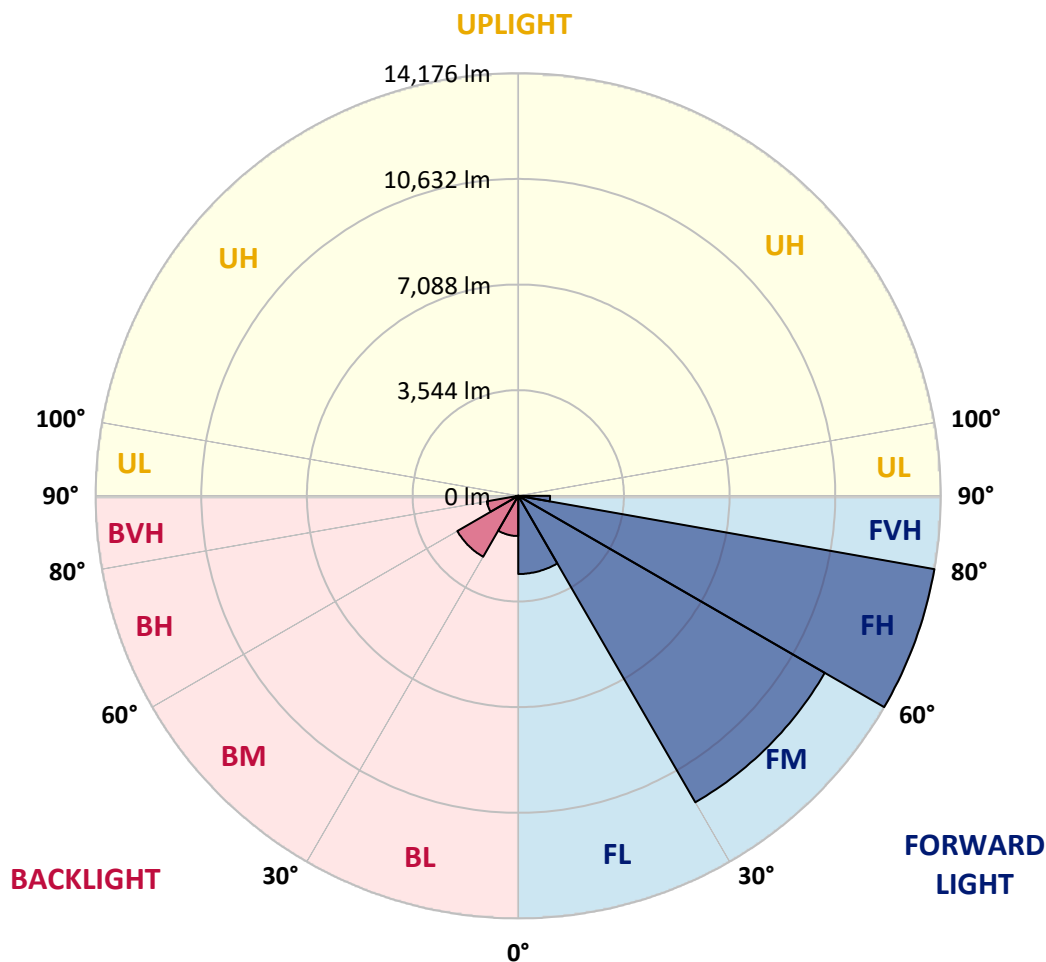
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2622.3	7.6			
FM (30°-60°)	11871.7	34.3			
FH (60°-80°)	14176.3	41.0			G5
FVH (80°-90°)	1070.2	3.1			G5
BL (0°-30°)	1349.0	3.9	B3/2500		
BM (30°-60°)	2360.9	6.8	B2/2500		
BH (60°-80°)	1069.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	84.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9
2.5°	6307.0	6241.2	6252.8	6229.6	6252.8	6245.1	6233.5	6175.4	6233.5	6175.4
5°	6221.8	6221.8	6260.6	6202.5	6210.2	6171.5	6210.2	6167.6	6128.9	6032.1
7.5°	6194.7	6190.9	6194.7	6113.4	6152.2	6128.9	6090.2	6043.8	5966.3	5904.4
10°	6008.9	6047.6	6005.0	6028.3	6059.2	5989.5	5985.7	5974.1	5939.2	5857.9
12.5°	5908.2	5974.1	5997.3	5977.9	6005.0	6012.8	5989.5	5974.1	5931.5	5877.3
15°	5950.8	5873.4	5939.2	6067.0	6039.9	6059.2	6063.1	6047.6	6028.3	5927.6
17.5°	5962.4	5916.0	6055.4	6082.5	6117.3	6187.0	6140.5	6136.7	6063.1	5993.4
20°	5989.5	5970.2	6082.5	6225.7	6229.6	6241.2	6264.4	6206.4	6167.6	6047.6
22.5°	6090.2	6156.0	6260.6	6322.5	6357.4	6365.1	6365.1	6249.0	6206.4	6109.6
25°	6392.2	6322.5	6469.6	6543.2	6492.9	6481.3	6454.2	6349.6	6303.2	6218.0
27.5°	6612.9	6609.0	6694.2	6794.9	6659.4	6686.5	6589.7	6558.7	6454.2	6407.7
30°	6914.9	7000.1	6996.2	7027.2	6849.1	6880.0	6756.1	6698.1	6640.0	6667.1
32.5°	7302.1	7271.1	7321.4	7298.2	7120.1	7147.2	7000.1	6911.0	6930.4	7011.7
35°	7549.8	7518.9	7538.2	7538.2	7484.0	7453.1	7391.1	7275.0	7367.9	7518.9
37.5°	7817.0	7855.7	7968.0	7944.8	7875.1	7875.1	7867.3	7786.0	7906.0	8277.7
40°	8053.2	8157.7	8227.4	8273.9	8355.2	8355.2	8421.0	8374.5	8591.3	9187.6
42.5°	8301.0	8304.8	8684.3	8719.1	8901.1	8978.5	9028.8	9067.6	9474.1	10140.0
45°	8618.4	8637.8	8970.8	9237.9	9520.6	9547.7	9737.4	9865.1	10364.6	11181.5
47.5°	9036.6	9013.4	9369.6	9795.4	10147.8	10333.6	10562.0	10701.4	11317.0	12312.1
50°	9586.4	9516.7	9721.9	10391.7	10806.0	11011.2	11417.7	11650.0	12370.1	13392.3
52.5°	10256.2	10140.0	10302.6	11034.4	11499.0	11913.3	12300.4	12559.9	13311.0	14228.6
55°	10964.7	10724.7	10771.1	11715.8	12385.6	12776.7	13307.1	13578.1	14344.7	14979.7
57.5°	11665.5	11514.5	11421.6	12370.1	13442.6	13818.2	14306.0	14658.3	15308.8	15645.6
60°	12254.0	12215.3	12064.3	13384.5	14561.5	14882.9	15393.9	15610.8	16102.5	16261.2
62.5°	12737.9	12606.3	12846.4	14201.5	15699.8	16063.8	16625.2	16644.5	16993.0	16644.5
65°	13117.4	13125.1	13508.4	15188.7	17016.2	17554.4	18007.4	17957.0	17732.5	16416.1
67.5°	13462.0	13609.1	14170.5	16272.8	18708.1	19215.3	19718.7	19052.7	17933.8	15347.5
70°	13733.0	13880.1	15064.9	17593.1	20702.1	21445.4	21557.7	19486.4	17008.5	13001.2
72.5°	13702.0	13969.2	15572.0	18646.2	22471.4	23114.2	22208.2	18266.8	14170.5	9063.7
73°	13767.8	13899.5	15529.5	18940.4	23009.6	23331.0	21906.2	17883.5	13365.2	8130.6
75°	12497.9	12943.2	14759.0	18460.3	22432.7	22374.7	20171.6	14902.2	9501.2	4270.5
77.5°	9245.7	9528.3	11630.6	15181.0	18413.9	18042.2	15215.8	9524.4	4510.6	1583.5
80°	4518.3	4739.0	6163.8	8765.6	12041.0	12072.0	9443.1	4955.8	1932.0	894.4
82.5°	2257.2	2388.8	2961.9	3852.4	5923.7	6206.4	4789.3	2818.6	1196.4	507.2
85°	1475.1	1568.0	1823.6	1885.5	2512.7	2652.1	2230.1	2199.1	778.2	274.9
87.5°	979.5	995.0	1118.9	952.4	1006.6	967.9	1076.3	1386.1	228.4	116.2
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6159.9	0°	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9	6159.9
6159.9	2.5°	6140.5	6086.3	6028.3	5947.0	5888.9	5799.8	5718.5	5683.7	5675.9	5679.8
6005.0	5°	5981.8	5904.4	5788.2	5621.7	5524.9	5377.8	5253.9	5188.1	5118.4	5130.0
5815.3	7.5°	5761.1	5675.9	5497.8	5304.3	5064.2	4855.1	4739.0	4576.4	4483.4	4413.8
5803.7	10°	5691.4	5544.3	5277.2	5010.0	4638.3	4363.4	4096.3	3910.4	3782.7	3658.8
5722.4	12.5°	5656.6	5509.5	5137.8	4742.9	4262.8	3844.6	3469.1	3240.6	3058.7	2950.2
5826.9	15°	5625.6	5443.6	5006.1	4448.6	3910.4	3360.7	2938.6	2636.6	2462.4	2357.9
5846.3	17.5°	5668.2	5408.8	4812.5	4162.1	3523.3	2934.8	2466.3	2152.7	1974.6	1908.8
5823.1	20°	5625.6	5370.1	4622.8	3875.6	3136.1	2528.2	2079.1	1819.7	1695.8	1641.6
5931.5	22.5°	5641.1	5277.2	4425.4	3558.1	2776.0	2187.5	1819.7	1622.2	1525.5	1498.4
5981.8	25°	5714.7	5222.9	4227.9	3209.7	2419.8	1935.9	1653.2	1502.2	1432.5	1405.4
6070.9	27.5°	5768.9	5269.4	4049.8	2880.6	2117.8	1711.3	1513.8	1413.2	1366.7	1347.4
6334.1	30°	5904.4	5296.5	3875.6	2586.3	1870.0	1564.2	1417.0	1335.7	1304.8	1293.2
6694.2	32.5°	6105.7	5346.8	3674.3	2315.3	1688.1	1424.8	1339.6	1269.9	1262.2	1250.6
7096.9	35°	6434.8	5521.1	3449.7	2083.0	1513.8	1331.9	1258.3	1211.8	1211.8	1211.8
7739.6	37.5°	6907.1	5765.0	3248.4	1862.3	1401.6	1250.6	1188.6	1173.1	1165.4	1177.0
8525.5	40°	7515.0	6059.2	3085.8	1688.1	1304.8	1196.4	1142.2	1134.4	1130.5	1126.7
9365.7	42.5°	8180.9	6434.8	2946.4	1552.6	1235.1	1138.3	1099.6	1091.8	1076.3	1084.1
10279.4	45°	8843.0	6899.4	2822.5	1444.2	1188.6	1107.3	1053.1	1049.2	1041.5	1037.6
11278.3	47.5°	9578.6	7356.3	2783.8	1378.3	1153.8	1060.9	1022.1	1018.3	995.0	991.2
11963.6	50°	10151.6	7693.1	2826.4	1347.4	1103.4	1026.0	998.9	979.5	960.2	940.8
12470.8	52.5°	10546.6	7925.4	2857.3	1324.1	1076.3	979.5	944.7	937.0	917.6	898.2
12978.0	55°	10902.8	8064.8	2865.1	1328.0	1049.2	925.3	902.1	898.2	886.6	855.6
13407.8	57.5°	11022.8	8006.7	2710.2	1293.2	1033.7	890.5	859.5	867.3	851.8	824.7
13415.5	60°	11011.2	7604.1	2357.9	1246.7	998.9	851.8	813.1	836.3	836.3	805.3
13020.6	62.5°	10341.4	6674.8	1928.1	1157.6	960.2	813.1	770.5	805.3	816.9	797.6
12087.5	65°	8951.4	5435.9	1610.6	1068.6	902.1	770.5	727.9	766.6	786.0	778.2
10263.9	67.5°	7406.6	4158.2	1339.6	952.4	828.5	712.4	677.6	704.7	716.3	720.1
7743.4	70°	5234.6	2768.3	1118.9	824.7	727.9	650.4	611.7	615.6	611.7	623.3
4518.3	72.5°	2845.7	1595.1	909.9	700.8	627.2	565.3	538.2	518.8	518.8	514.9
3821.4	73°	2435.3	1432.5	867.3	681.4	600.1	549.8	518.8	503.3	503.3	499.5
1850.7	75°	1366.7	1049.2	743.4	584.6	518.8	480.1	456.9	433.6	429.8	429.8
998.9	77.5°	898.2	816.9	592.4	468.5	418.1	383.3	375.6	352.3	352.3	352.3
681.4	80°	673.7	642.7	456.9	356.2	321.4	294.3	286.5	271.0	267.1	251.7
387.2	82.5°	449.1	507.2	333.0	251.7	216.8	201.3	201.3	197.5	185.8	166.5
313.6	85°	356.2	414.3	240.0	154.9	127.8	108.4	112.3	108.4	104.5	85.2
85.2	87.5°	65.8	166.5	69.7	42.6	31.0	19.4	19.4	11.6	7.7	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>
6159.9
5641.1
5099.1
4452.5
3713.0
2992.8
2369.5
1893.3
1630.0
1506.1
1413.2
1343.5
1289.3
1254.4
1223.5
1184.7
1134.4
1095.7
1057.0
1006.6
940.8
890.5
847.9
820.8
801.4
793.7
774.3
724.0
623.3
514.9
495.6
429.8
348.5
255.5
166.5
81.3
0.0
0.0

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