

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: P574612

Luminaire Tested: **EPH-VN-06-735-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574612
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

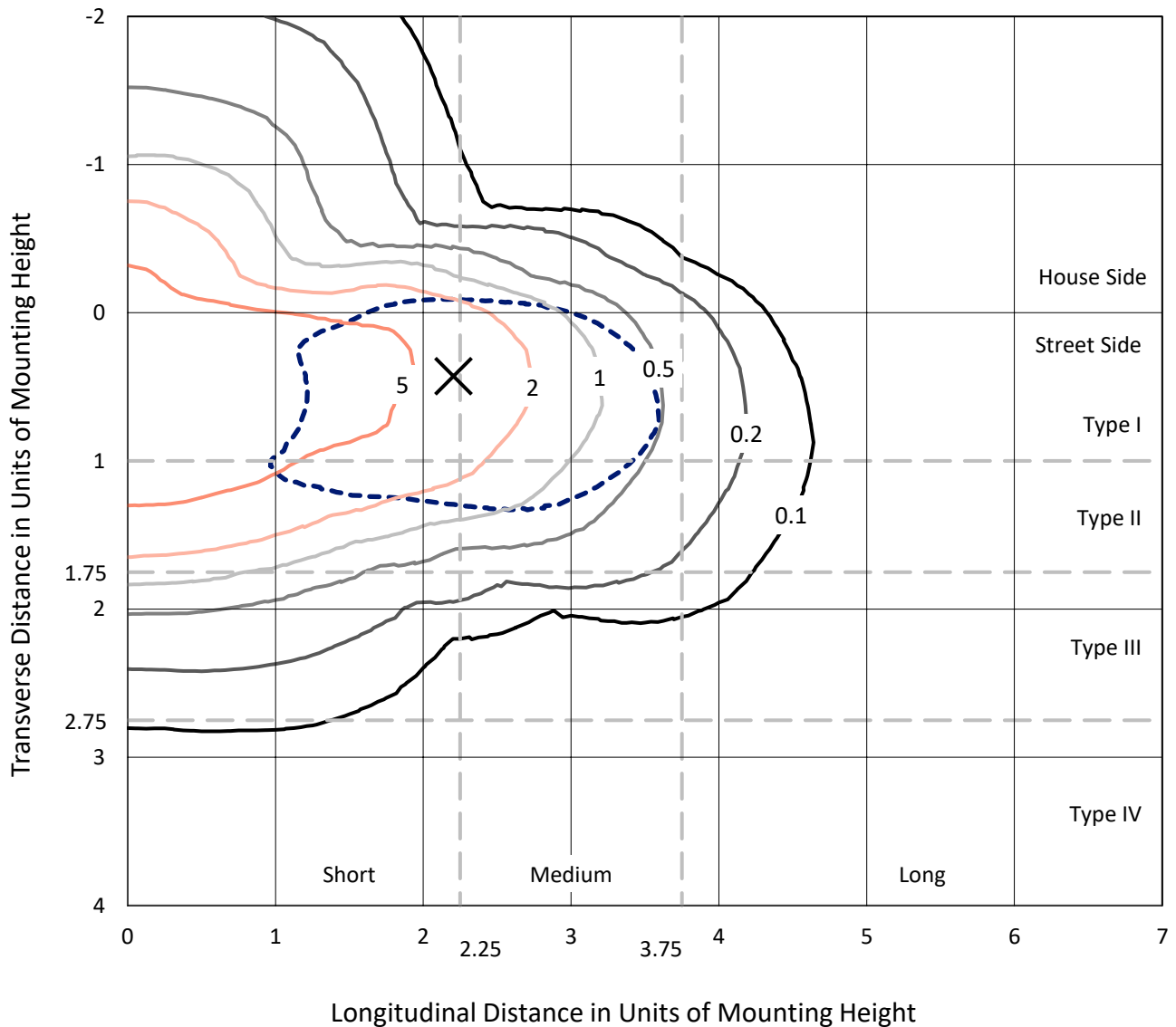
Lumens per Lamp: N/A
Luminaire Lumens: 52125.1 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

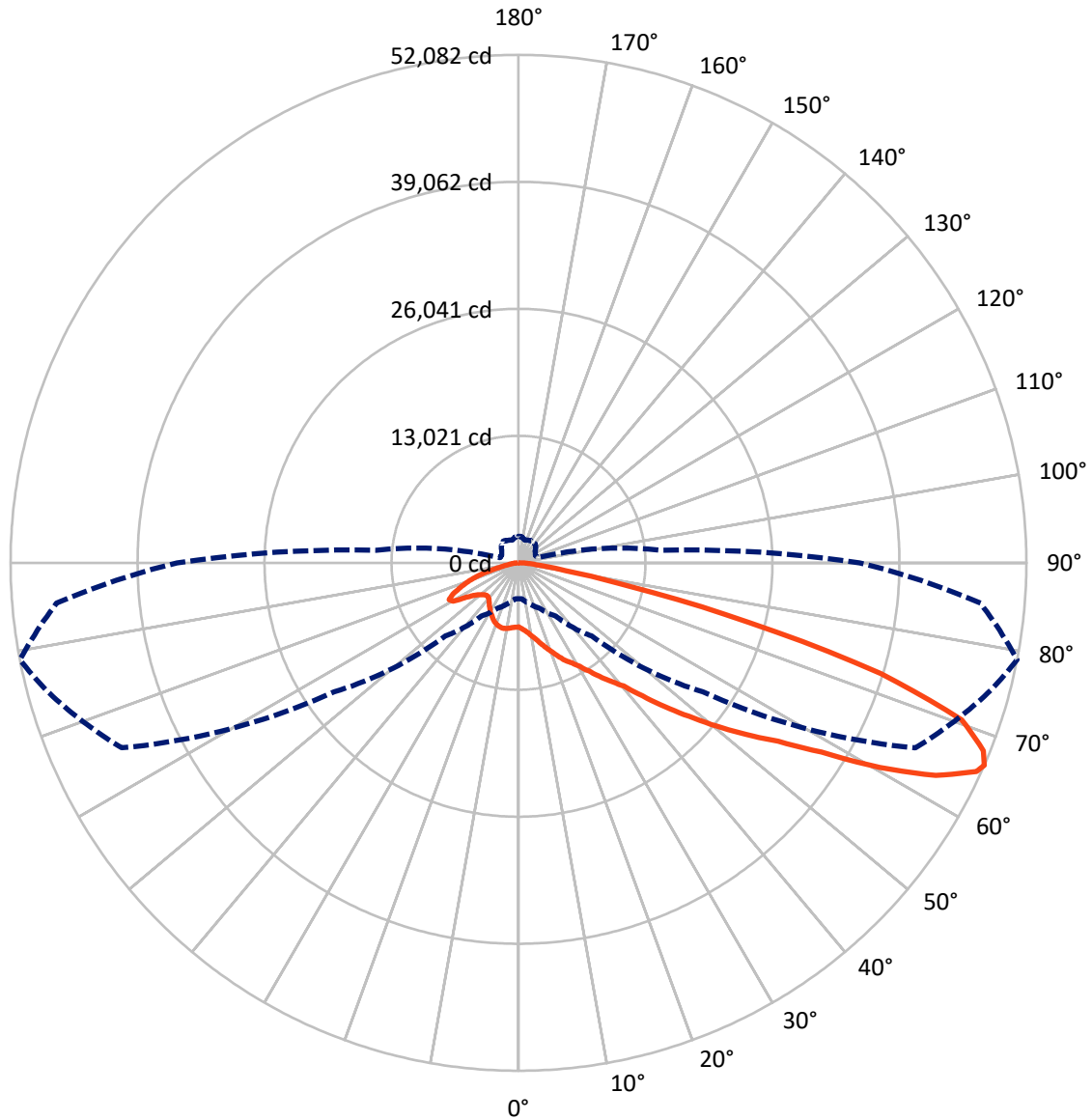
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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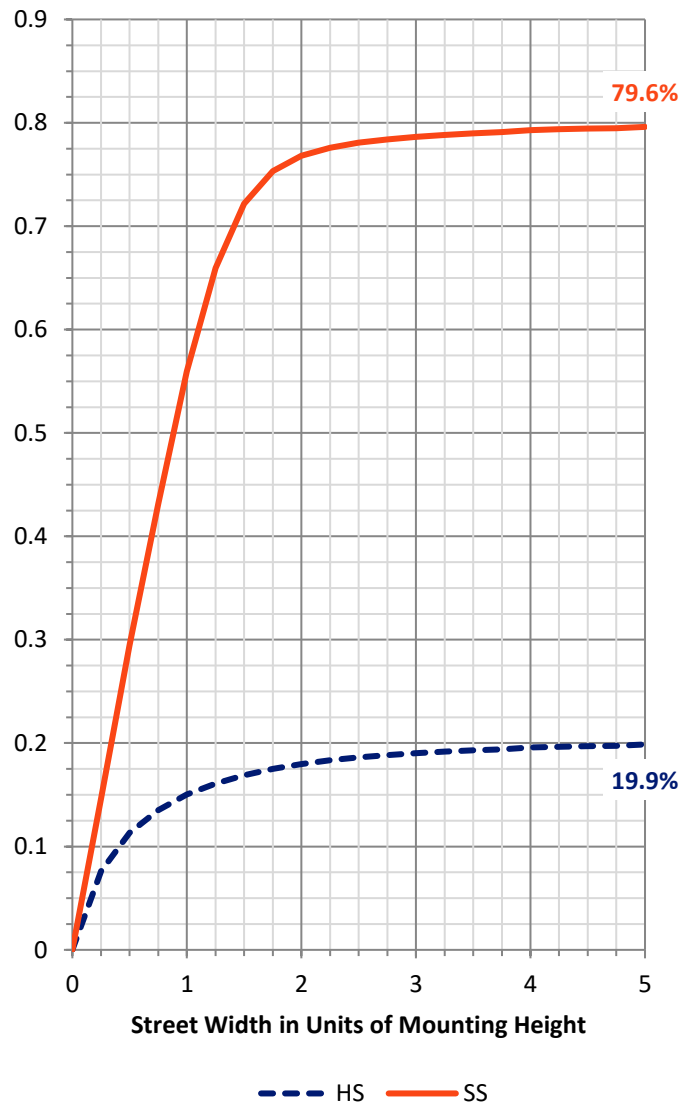
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10525.9	0.0	10525.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	41599.2	0.0	41599.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	52125.1	0.0	52125.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.2	1.2
10°-20°	1998.5	3.8
20°-30°	3430.5	6.6
30°-40°	5299.5	10.2
40°-50°	8488.4	16.3
50°-60°	12673.8	24.3
60°-70°	13022.4	25.0
70°-80°	5772.6	11.1
80°-90°	792.0	1.5
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°	52125.1	100.0
0°-180°	52125.1	100.0

Coefficient of Utilization

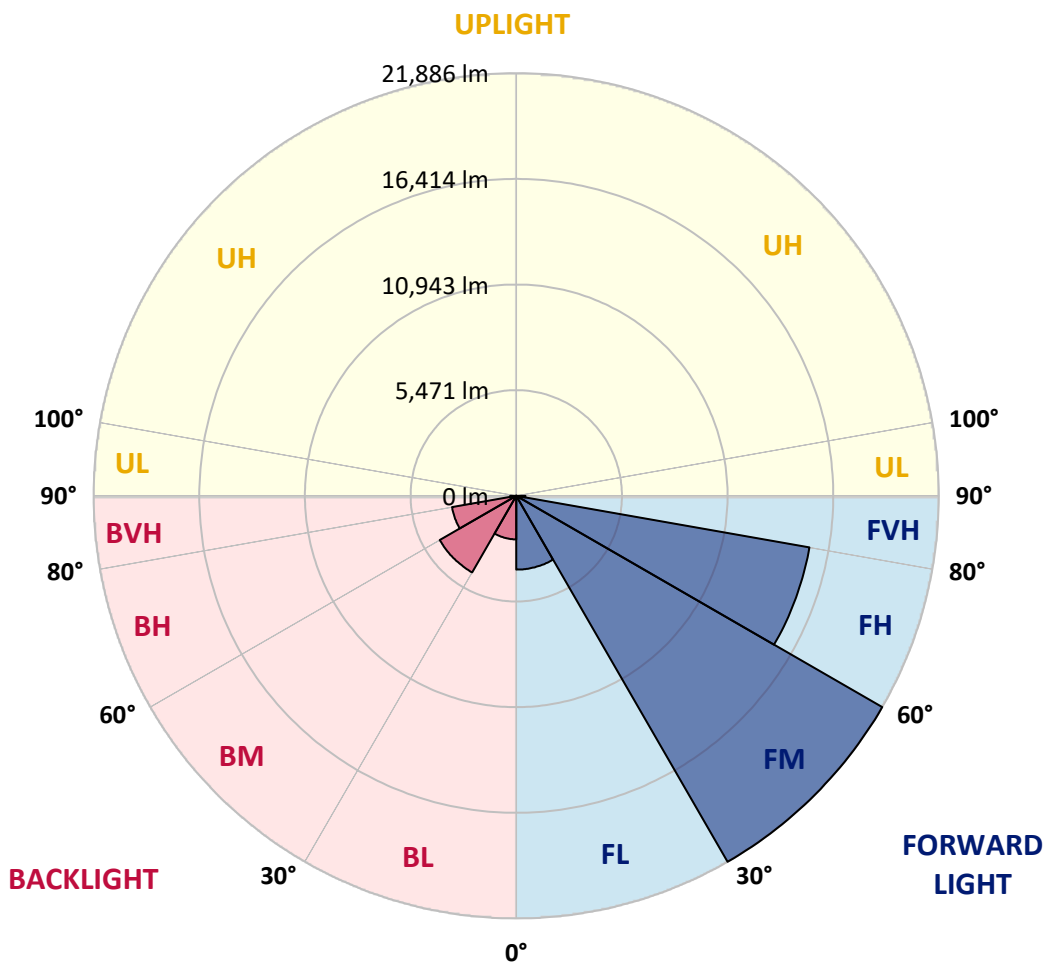


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3821.1	7.3			
FM (30°-60°)	21885.6	42.0			
FH (60°-80°)	15417.4	29.6			G5
FVH (80°-90°)	475.0	0.9			G3/500
BL (0°-30°)	2255.2	4.3	B3/2500		
BM (30°-60°)	4576.2	8.8	B3/5000		
BH (60°-80°)	3377.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	317.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0
2.5°	7000.5	7006.2	7006.2	6983.3	6989.0	7006.2	6943.2	6805.6	6805.6	6782.6
5°	7430.5	7401.8	7361.7	7367.4	7344.5	7344.5	7275.7	7143.8	7029.2	6983.3
7.5°	7487.8	7516.5	7510.8	7579.6	7614.0	7614.0	7648.4	7539.4	7367.4	7258.5
10°	7602.5	7528.0	7522.2	7682.8	7734.4	7854.8	7992.4	7935.0	7791.7	7636.9
12.5°	7671.3	7717.2	7717.2	7797.4	7917.8	8095.6	8336.4	8445.3	8221.7	8061.2
15°	7774.5	7711.4	7894.9	7963.7	8193.0	8319.2	8663.2	8944.1	8795.0	8600.1
17.5°	7820.4	7780.2	7883.4	8009.6	8399.4	8588.6	9007.2	9397.1	9270.9	9144.8
20°	8055.4	8049.7	8095.6	8198.8	8479.7	8852.4	9374.1	9913.1	9958.9	9729.6
22.5°	8628.8	8554.2	8554.2	8514.1	8634.5	9018.7	9723.9	10469.2	10675.6	10406.1
25°	9156.3	9259.5	9196.4	9012.9	8967.0	9167.7	9976.1	11059.7	11334.9	11082.7
27.5°	9832.8	9867.2	9976.1	9729.6	9414.3	9477.3	10251.3	11392.3	11959.9	11621.6
30°	10807.5	10744.4	10721.5	10446.3	10033.5	9947.5	10566.7	11879.6	12779.8	12303.9
32.5°	11466.8	11621.6	11615.9	11237.5	10738.7	10549.5	10956.5	12338.3	13657.0	13215.5
35°	12774.0	12934.6	12808.4	12252.3	11667.5	11289.1	11518.4	12934.6	14660.3	14316.3
37.5°	14442.5	14820.9	14551.4	13525.1	12699.5	12286.7	12298.2	13582.4	15686.6	15405.7
40°	15594.9	16105.1	15732.5	14769.3	13892.0	13502.2	13347.4	14350.7	16913.6	16615.4
42.5°	17022.5	17446.8	17251.8	16300.1	15273.8	14941.3	14631.7	15635.0	18788.4	18650.8
45°	18582.0	18782.6	18719.6	18117.6	16976.6	16862.0	16179.7	17326.4	20995.7	21053.1
47.5°	20032.5	20141.5	20261.9	19826.1	19115.2	19212.6	17962.8	19138.1	23140.0	23518.4
50°	20405.2	20777.9	21058.8	21351.2	21506.0	22165.4	19929.3	21362.7	25605.4	26339.3
52.5°	20026.8	19998.1	20852.4	21769.7	23317.8	24699.5	22606.8	24126.2	27784.1	29234.6
55°	18306.8	18249.4	19625.5	20840.9	23862.4	26109.9	26431.0	27807.0	30415.7	32302.0
57.5°	15296.7	14941.3	16443.4	18438.6	22681.4	26264.7	30272.4	33271.0	34463.5	36613.5
60°	10280.0	10130.9	11570.0	13949.4	18415.7	24068.8	32571.5	40110.9	40168.3	42587.8
62.5°	6329.7	6358.3	7281.4	9064.5	12894.4	19080.8	31579.6	45574.9	45586.3	48011.6
65°	4139.5	4156.7	4902.1	5888.2	8055.4	12940.3	26115.7	46004.9	49353.2	51606.4
66°	3686.6	3692.3	4334.5	5137.1	6673.7	10589.6	23065.5	44886.8	50201.7	52082.3
67.5°	3107.5	3182.0	3698.0	4317.3	5205.9	7608.2	18301.0	41653.2	49766.0	51417.2
70°	2431.0	2471.1	2878.2	3508.8	3904.5	4403.3	10876.3	33953.2	45551.9	48229.4
72.5°	1949.4	1983.8	2293.4	2849.5	3170.6	2901.1	5922.6	24636.5	35982.9	38838.1
75°	1645.5	1651.2	1800.3	2241.8	2608.7	2178.7	3153.4	15812.7	23088.4	24418.6
77.5°	1330.2	1353.1	1456.3	1708.6	2098.4	1714.3	1880.6	8858.1	11593.0	11690.4
80°	1083.6	1095.1	1158.1	1244.1	1599.6	1267.1	1272.8	4323.0	4970.9	4856.2
82.5°	854.3	865.7	940.3	923.1	1175.3	905.9	791.2	2081.2	2287.6	2241.8
85°	481.6	481.6	739.6	739.6	745.3	573.3	481.6	980.4	1209.7	1129.5
87.5°	154.8	160.5	223.6	235.1	372.7	258.0	235.1	366.9	573.3	504.5
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°
6582.0	0°	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0	6582.0
6742.5	2.5°	6719.6	6627.8	6587.7	6455.8	6421.4	6335.4	6295.3	6243.7	6226.5	6151.9
6862.9	5°	6771.2	6742.5	6582.0	6415.7	6289.5	6232.2	6146.2	6031.5	6020.1	5916.9
7138.1	7.5°	6989.0	6891.6	6610.6	6432.9	6180.6	6037.3	5848.1	5790.7	5716.2	5681.8
7476.4	10°	7327.3	7080.8	6662.2	6215.0	5905.4	5733.4	5595.8	5555.7	5561.4	5538.5
7814.6	12.5°	7568.1	7333.0	6576.2	6031.5	5630.2	5463.9	5452.5	5492.6	5555.7	5527.0
8210.2	15°	7912.1	7470.6	6513.2	5727.7	5406.6	5360.7	5355.0	5475.4	5469.7	5469.7
8743.4	17.5°	8233.2	7608.2	6283.8	5463.9	5171.5	5205.9	5246.1	5240.3	5297.7	5320.6
9184.9	20°	8640.2	7768.8	5962.7	5200.2	4993.8	4982.3	4976.6	4982.3	5039.7	5074.1
9683.7	22.5°	8995.7	7803.2	5693.3	4947.9	4781.7	4735.8	4661.3	4735.8	4707.1	4718.6
10360.3	25°	9305.3	7808.9	5309.1	4758.7	4569.5	4466.3	4409.0	4403.3	4351.7	4345.9
10744.4	27.5°	9563.3	7614.0	4970.9	4495.0	4317.3	4219.8	4214.1	4151.0	4019.1	3933.1
11197.3	30°	9764.0	7464.9	4735.8	4265.7	4093.7	4076.5	4024.9	3881.5	3709.5	3600.6
12034.4	32.5°	10119.5	7166.8	4414.7	4030.6	3944.6	3921.7	3801.2	3675.1	3514.6	3411.4
12745.4	35°	10383.2	6891.6	4202.6	3829.9	3789.8	3743.9	3640.7	3503.1	3457.2	3434.3
13507.9	37.5°	10681.3	6582.0	3944.6	3657.9	3698.0	3612.0	3491.6	3428.6	3589.1	3549.0
14700.5	40°	11157.2	6364.1	3692.3	3554.7	3594.8	3497.4	3342.6	3319.6	3520.3	3377.0
16231.3	42.5°	12028.7	6358.3	3537.5	3399.9	3428.6	3354.0	3216.4	3205.0	3285.2	3113.2
18146.2	45°	13112.3	6559.0	3422.8	3285.2	3262.3	3250.8	3205.0	3153.4	3084.6	2861.0
20279.1	47.5°	14408.1	6885.8	3399.9	3113.2	3141.9	3239.4	3182.0	3050.2	2872.4	2729.1
22652.7	50°	15979.0	7562.4	3342.6	2987.1	3038.7	3193.5	3147.6	2964.2	2803.6	2711.9
24825.7	52.5°	17716.2	8416.6	3268.0	2792.2	2906.8	3153.4	3176.3	3004.3	2769.2	2689.0
27766.9	55°	19763.1	9678.0	3182.0	2580.0	2752.0	3113.2	3176.3	2889.6	2723.4	2723.4
32256.2	57.5°	23805.1	11948.4	3004.3	2385.1	2614.4	3038.7	3084.6	2895.4	2729.1	2729.1
39222.2	60°	29733.5	15491.7	2666.0	2236.0	2482.6	2935.5	3015.8	2809.4	2666.0	2700.4
44955.6	62.5°	34371.8	16569.5	2379.4	2092.7	2350.7	2746.3	2924.0	2717.6	2591.5	2717.6
47581.5	65°	35363.7	15480.2	2087.0	1937.9	2167.2	2562.8	2792.2	2585.8	2482.6	2729.1
47547.1	66°	35008.2	14631.7	1983.8	1892.0	2087.0	2471.1	2711.9	2539.9	2425.2	2717.6
46469.3	67.5°	33425.8	13358.8	1869.1	1794.6	1978.0	2339.2	2620.2	2476.8	2333.5	2683.2
42547.6	70°	29985.7	11329.2	1674.2	1622.6	1823.2	2121.4	2408.0	2316.3	2190.2	2471.1
33465.9	72.5°	23094.2	9053.1	1467.8	1473.5	1645.5	1897.8	2195.9	2132.8	2023.9	2167.2
20502.7	75°	14064.0	5785.0	1278.5	1290.0	1433.4	1685.6	1995.2	1949.4	1817.5	1897.8
9477.3	77.5°	6232.2	2866.7	1077.9	1100.8	1215.5	1485.0	1737.2	1662.7	1525.1	1542.3
3852.8	80°	2419.5	1358.8	877.2	905.9	980.4	1186.8	1439.1	1370.3	1249.9	1226.9
1771.6	82.5°	1163.9	756.8	676.5	688.0	716.7	946.0	1238.4	1152.4	991.9	888.7
831.3	85°	584.8	470.1	475.9	435.7	475.9	642.1	837.1	699.5	579.1	516.0
298.1	87.5°	235.1	235.1	235.1	200.7	212.1	303.9	389.9	263.7	240.8	143.3
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°
6582.0
6220.7
5905.4
5756.3
5504.1
5567.1
5463.9
5360.7
5045.4
4753.0
4345.9
3944.6
3600.6
3394.2
3451.5
3566.2
3342.6
3061.6
2803.6
2700.4
2694.7
2677.5
2711.9
2706.2
2694.7
2729.1
2740.6
2723.4
2631.6
2379.4
2109.9
1869.1
1530.8
1215.5
888.7
527.5
143.3
0.0

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