

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: P574778

Luminaire Tested: **EPH-VN-06-740-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574778
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

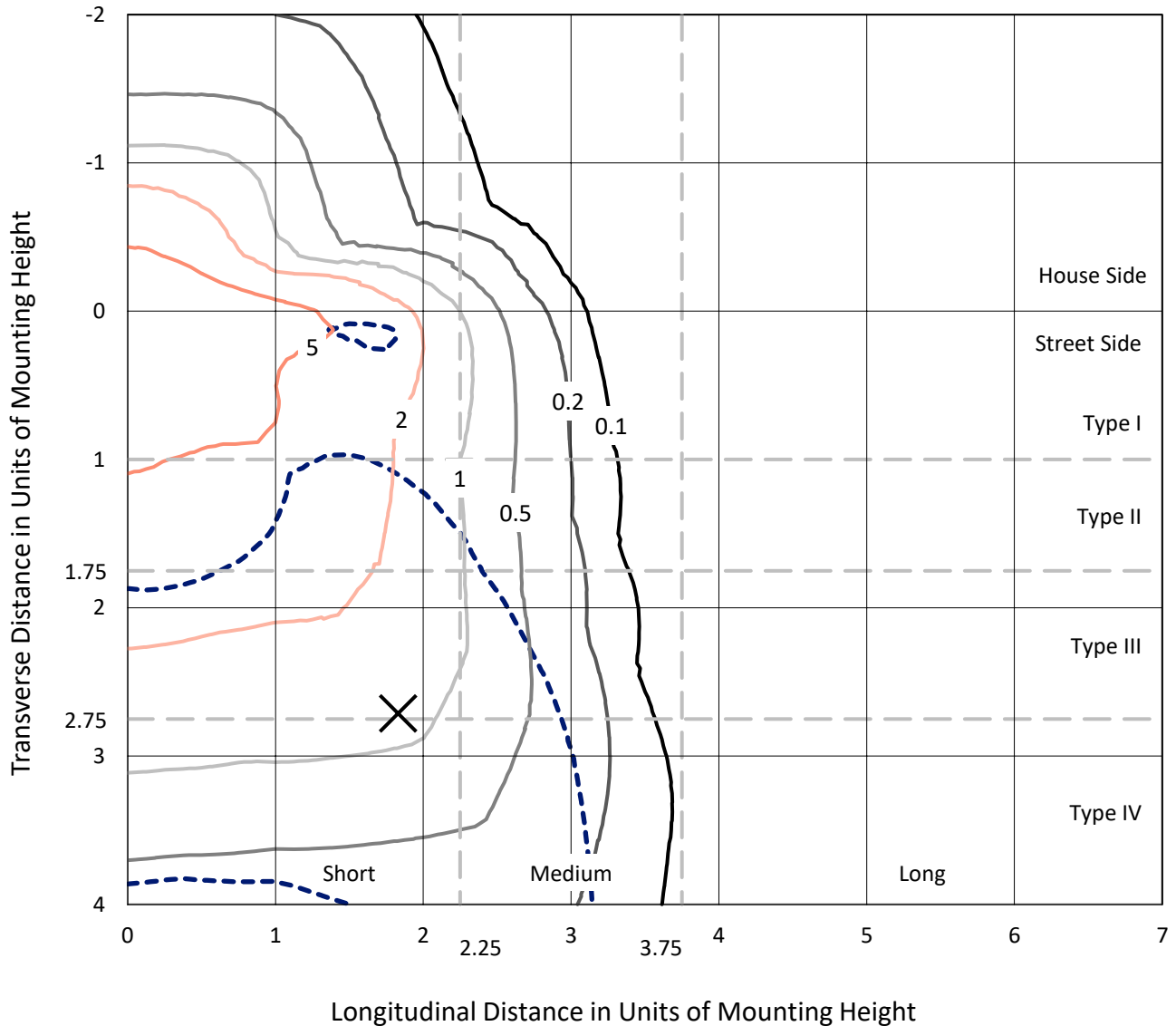
Lumens per Lamp: N/A
Luminaire Lumens: 54208.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

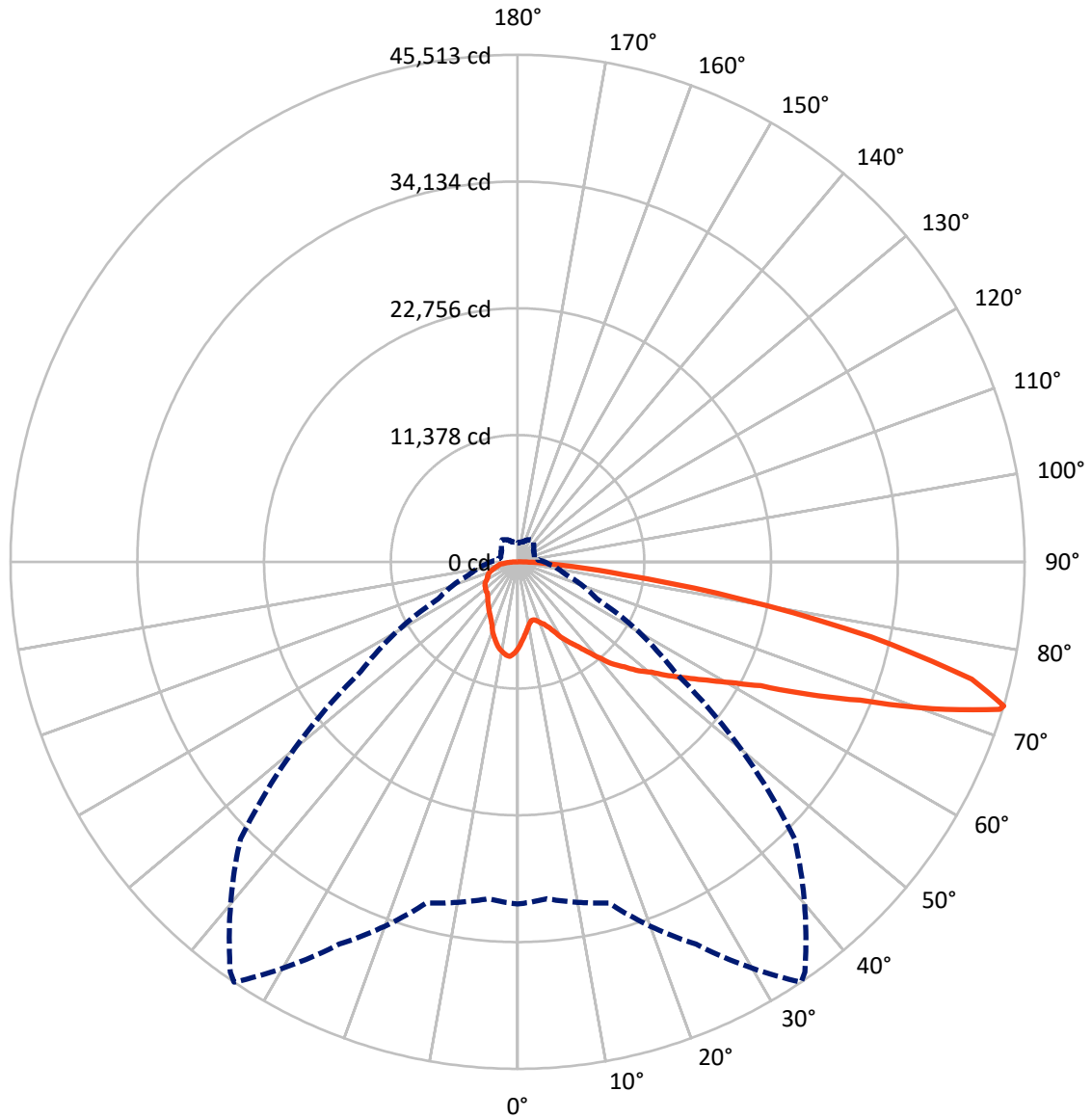
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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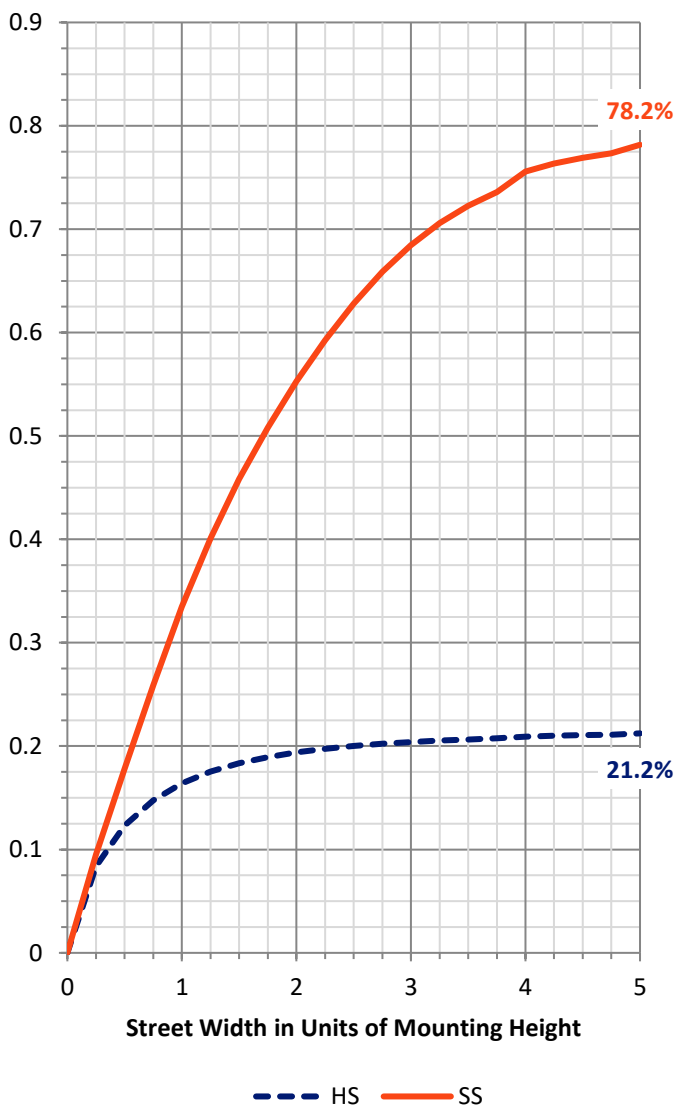
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11709.8	0.0	11709.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	42499.1	0.0	42499.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	54208.9	0.0	54208.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.3	1.3
10°-20°	2007.4	3.7
20°-30°	3303.9	6.1
30°-40°	4940.9	9.1
40°-50°	7324.7	13.5
50°-60°	10555.7	19.5
60°-70°	13470.5	24.8
70°-80°	10482.3	19.3
80°-90°	1406.3	2.6
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°	54208.9	100.0
0°-180°	54208.9	100.0

Coefficient of Utilization

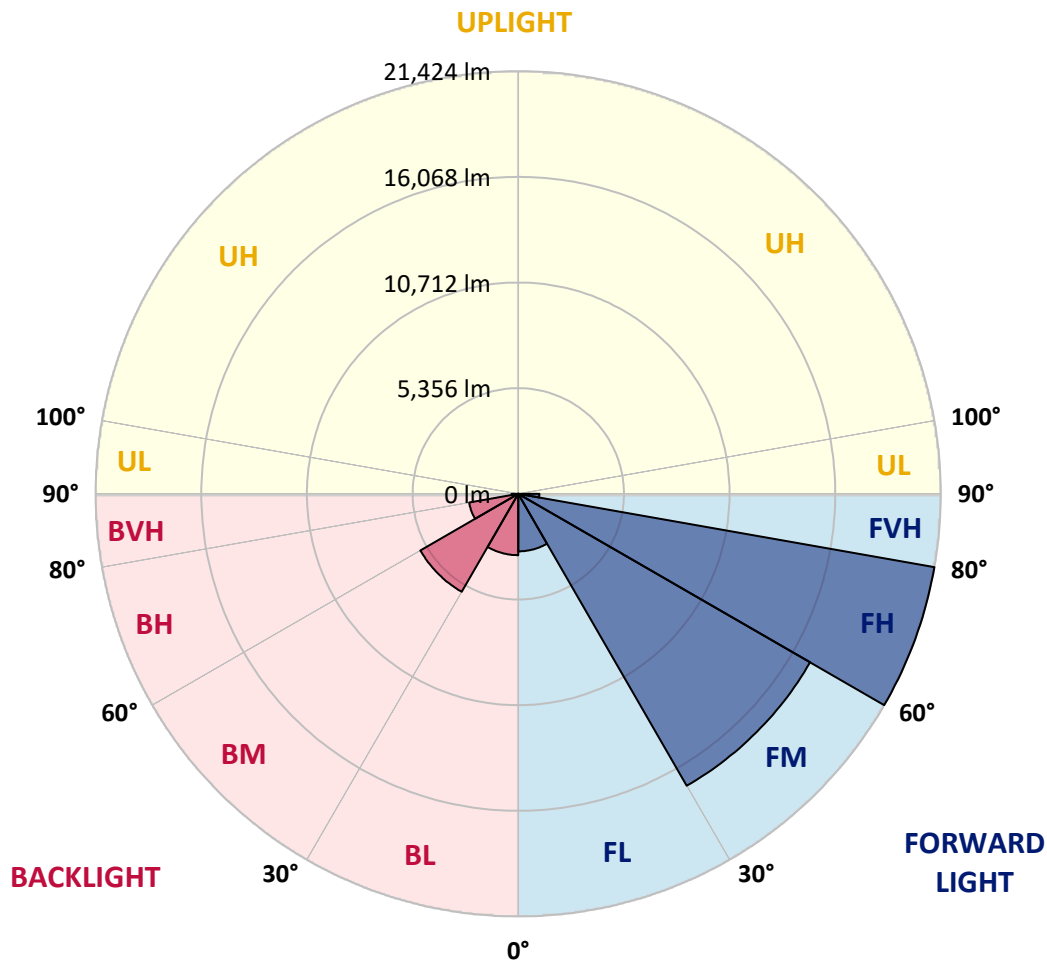


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2917.4	5.4			
FM (30°-60°)	17087.0	31.5			
FH (60°-80°)	21424.3	39.5			G5
FVH (80°-90°)	1070.4	2.0			G5
BL (0°-30°)	3111.2	5.7	B4/5000		
BM (30°-60°)	5734.3	10.6	B4/8500		
BH (60°-80°)	2528.4	4.7	B4/5000		G4/5000
BVH (80°-90°)	335.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7
2.5°	6963.6	6986.5	7061.0	7078.2	7158.4	7112.6	7210.0	7382.0	7479.4	7622.7
5°	6413.4	6315.9	6361.8	6539.5	6631.2	6654.1	6757.2	7049.5	7232.9	7445.0
7.5°	5765.7	5748.5	5840.2	5954.9	6138.3	6155.5	6384.7	6642.6	7020.9	7490.9
10°	5324.4	5398.9	5450.5	5570.9	5697.0	5697.0	5989.2	6436.3	6866.1	7318.9
12.5°	5301.5	5255.6	5267.1	5330.1	5421.8	5536.5	5811.6	6212.8	6757.2	7284.5
15°	5376.0	5393.2	5290.0	5370.3	5404.7	5444.8	5748.5	6201.3	6688.5	7404.9
17.5°	5771.5	5674.0	5513.5	5439.0	5559.4	5559.4	5765.7	6121.1	6699.9	7467.9
20°	6081.0	6081.0	5817.3	5737.1	5823.0	5805.8	5949.1	6212.8	6757.2	7594.0
22.5°	6602.5	6677.0	6241.4	6075.2	6069.5	6115.3	6241.4	6464.9	6917.7	7771.7
25°	7353.3	7370.5	6866.1	6694.2	6510.8	6585.3	6608.2	6831.8	7061.0	7978.0
27.5°	8190.1	8178.6	7714.4	7284.5	7164.2	7181.4	7055.3	7204.3	7273.1	8041.1
30°	9118.6	9015.4	8665.8	8058.3	7960.8	7851.9	7576.8	7571.1	7714.4	8396.4
32.5°	9726.1	9594.3	9353.5	8918.0	8648.6	8660.1	8224.5	8218.7	8092.7	8786.1
35°	10322.1	10121.5	10058.5	9611.5	9342.1	9370.7	9021.1	8975.3	8746.0	9376.5
37.5°	11038.6	10860.9	10958.3	10620.2	10287.8	10150.2	9989.7	9932.4	9634.4	10207.5
40°	11829.5	11772.2	11709.1	11542.9	11342.3	11353.8	11181.8	11124.5	10683.2	11210.5
42.5°	12895.5	12677.7	12351.0	12459.9	12563.1	12672.0	12614.7	12465.7	12007.2	12230.7
45°	13887.0	13600.5	12998.7	13033.1	13457.2	13543.2	14236.6	14219.5	13296.7	13526.0
47.5°	14557.6	14425.8	14064.7	14024.6	14632.1	14626.4	15875.8	15875.8	14655.0	14815.5
50°	15554.9	15211.0	15056.2	15256.8	15566.3	15778.4	17549.4	17658.3	15990.4	16162.4
52.5°	16724.0	16294.2	15904.5	16420.3	16970.5	17108.0	19205.7	19159.9	17016.3	17727.0
55°	17692.6	17474.9	17205.5	17503.5	18403.3	18575.3	20867.8	20443.7	18042.3	19022.3
57.5°	18821.7	18953.5	19010.8	18936.3	20008.1	20277.5	22764.9	21549.8	18924.9	19893.5
60°	20523.9	20604.2	20678.7	20856.3	21991.1	22369.4	24266.5	22936.8	19480.8	20397.8
62.5°	23114.5	22805.0	22971.2	23584.5	24495.7	24925.6	26478.8	23911.1	19904.9	20701.6
65°	26077.6	25659.2	25487.3	26278.2	28639.5	28295.6	29241.3	24639.0	19291.7	19566.8
67.5°	29080.8	29126.7	28685.3	30272.9	33167.3	33167.3	31808.9	24988.6	17629.6	15858.6
70°	31465.0	31608.3	31849.0	34926.8	39511.8	40205.3	34989.8	23555.8	14242.4	10557.1
72.5°	31430.7	31000.8	32233.0	37901.3	45277.6	44698.7	35654.7	18626.9	8889.3	5169.7
73°	30725.7	30364.6	31711.5	37872.7	45512.6	44968.1	35167.5	17171.1	7840.5	4481.9
75°	25091.8	24438.4	26731.0	34302.1	42108.1	42526.5	29877.5	11199.0	4298.5	2762.5
77.5°	11439.8	11726.3	14712.3	23011.3	32450.8	32943.7	19641.3	4843.0	2355.6	1937.2
80°	3673.8	3857.2	5725.6	11439.8	20340.5	21228.9	9078.4	2200.8	1679.3	1484.4
82.5°	1404.2	1398.4	2401.4	4757.0	9640.1	10207.5	3318.4	1341.1	1249.4	1094.7
85°	492.9	515.8	905.6	1879.9	3794.1	3971.8	1152.0	745.1	865.4	733.6
87.5°	171.9	177.7	321.0	682.0	1306.7	1381.3	321.0	298.0	429.9	424.1
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°
7771.7	0°	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7	7771.7
7794.6	2.5°	7851.9	7903.5	7920.7	8127.0	8127.0	8127.0	8207.3	8207.3	8184.4	8127.0
7766.0	5°	7886.3	7978.0	8155.7	8333.4	8379.2	8419.3	8528.2	8436.5	8470.9	8413.6
7869.1	7.5°	7983.8	8109.8	8442.3	8551.2	8476.6	8562.6	8448.0	8384.9	8321.9	8344.8
7892.1	10°	8150.0	8310.4	8465.2	8665.8	8522.5	8436.5	8201.5	8144.2	7943.6	7874.9
7989.5	12.5°	8356.3	8551.2	8814.8	8740.3	8465.2	8218.7	7966.6	7725.8	7605.5	7433.5
8155.7	15°	8562.6	8786.1	8826.3	8700.2	8356.3	8046.8	7588.3	7250.1	7129.8	6975.0
8396.4	17.5°	8786.1	8998.2	8929.4	8602.7	8138.5	7668.5	7147.0	6814.6	6562.4	6464.9
8665.8	20°	9118.6	9221.7	9112.8	8442.3	7874.9	7255.9	6751.5	6373.2	6121.1	6081.0
8923.7	22.5°	9376.5	9542.7	9055.5	8207.3	7490.9	6717.1	6138.3	5995.0	5920.5	5857.4
9216.0	25°	9708.9	9703.2	8952.4	7989.5	6831.8	6075.2	5725.6	5714.1	5679.8	5656.8
9634.4	27.5°	10024.1	9892.3	8832.0	7450.7	6149.7	5588.1	5398.9	5525.0	5576.6	5542.2
10213.2	30°	10522.7	10304.9	8660.1	6877.6	5547.9	5095.2	5129.5	5301.5	5387.5	5439.0
10717.6	32.5°	11050.0	10717.6	8304.7	6281.5	5014.9	4785.7	4865.9	5043.6	5146.7	5204.1
11548.6	35°	11812.3	11038.6	7943.6	5502.1	4630.9	4596.5	4642.4	4739.8	4888.8	4929.0
12683.5	37.5°	12752.2	11525.7	7456.5	4877.4	4332.9	4373.0	4418.9	4453.3	4459.0	4533.5
13772.4	40°	13692.2	11938.4	6745.8	4281.3	4023.4	4241.2	4218.3	4155.2	4103.6	4034.9
14987.5	42.5°	14517.5	12299.5	5954.9	3777.0	3748.3	4103.6	4029.1	3868.7	3748.3	3696.7
16368.7	45°	15446.0	12809.5	5158.2	3461.7	3536.2	3937.4	3914.5	3668.1	3513.3	3329.9
17853.1	47.5°	16649.5	13342.6	4395.9	3135.0	3335.6	3874.4	3885.8	3570.6	3347.1	3100.7
19796.0	50°	18191.3	14110.6	3817.1	2997.5	3215.3	3782.7	3799.9	3438.8	3146.5	2894.3
22071.4	52.5°	19670.0	14895.7	3335.6	2785.4	3135.0	3673.8	3713.9	3318.4	2980.3	2665.1
23166.1	55°	20415.0	14609.2	2923.0	2630.7	2951.6	3496.1	3645.1	3232.5	2728.1	2510.3
23808.0	57.5°	20581.2	13904.2	2596.3	2470.2	2796.9	3307.0	3530.5	2974.6	2613.5	2430.1
23859.6	60°	20036.8	12672.0	2338.4	2298.3	2602.0	3112.1	3266.9	2837.0	2498.9	2349.8
22174.5	62.5°	18695.6	11393.9	2160.7	2218.0	2435.8	2900.1	3100.7	2739.6	2390.0	2286.8
18804.5	65°	15331.3	9370.7	2017.4	2063.3	2263.9	2693.7	2997.5	2630.7	2292.5	2195.1
13187.8	67.5°	10620.2	6459.2	1902.8	1988.8	2126.3	2544.7	2894.3	2510.3	2166.4	2132.1
7210.0	70°	5439.0	3444.5	1753.8	1822.6	1977.3	2355.6	2710.9	2384.2	2034.6	2028.9
3307.0	72.5°	2756.8	2017.4	1581.8	1685.0	1793.9	2109.1	2481.7	2218.0	1868.4	1805.4
2940.2	73°	2384.2	1868.4	1553.2	1644.9	1748.1	2040.4	2412.9	2177.9	1845.5	1753.8
2069.0	75°	1736.6	1473.0	1392.7	1484.4	1564.7	1839.8	2183.6	1994.5	1696.5	1599.0
1524.5	77.5°	1301.0	1134.8	1157.7	1260.9	1329.7	1587.6	1942.9	1805.4	1536.0	1404.2
1140.5	80°	957.1	865.4	957.1	1054.6	1106.1	1398.4	1771.0	1564.7	1295.3	1146.3
808.1	82.5°	682.0	630.4	739.3	802.4	825.3	1157.7	1593.3	1249.4	980.1	785.2
464.2	85°	389.7	384.0	498.6	492.9	510.1	676.3	1048.8	831.0	630.4	481.4
235.0	87.5°	171.9	189.1	252.2	200.6	212.1	321.0	447.0	309.5	257.9	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°
7771.7
8264.6
8465.2
8264.6
7937.9
7479.4
7055.3
6464.9
6017.9
5777.2
5765.7
5588.1
5370.3
5267.1
4946.1
4504.8
4017.7
3610.7
3307.0
3066.3
2871.4
2682.3
2504.6
2407.2
2315.5
2212.3
2189.4
2086.2
1971.6
1713.7
1667.8
1518.8
1369.8
1117.6
722.1
470.0
108.9
0.0

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