

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: P574618

Luminaire Tested: **EPH-VN-06-740-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574618
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-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

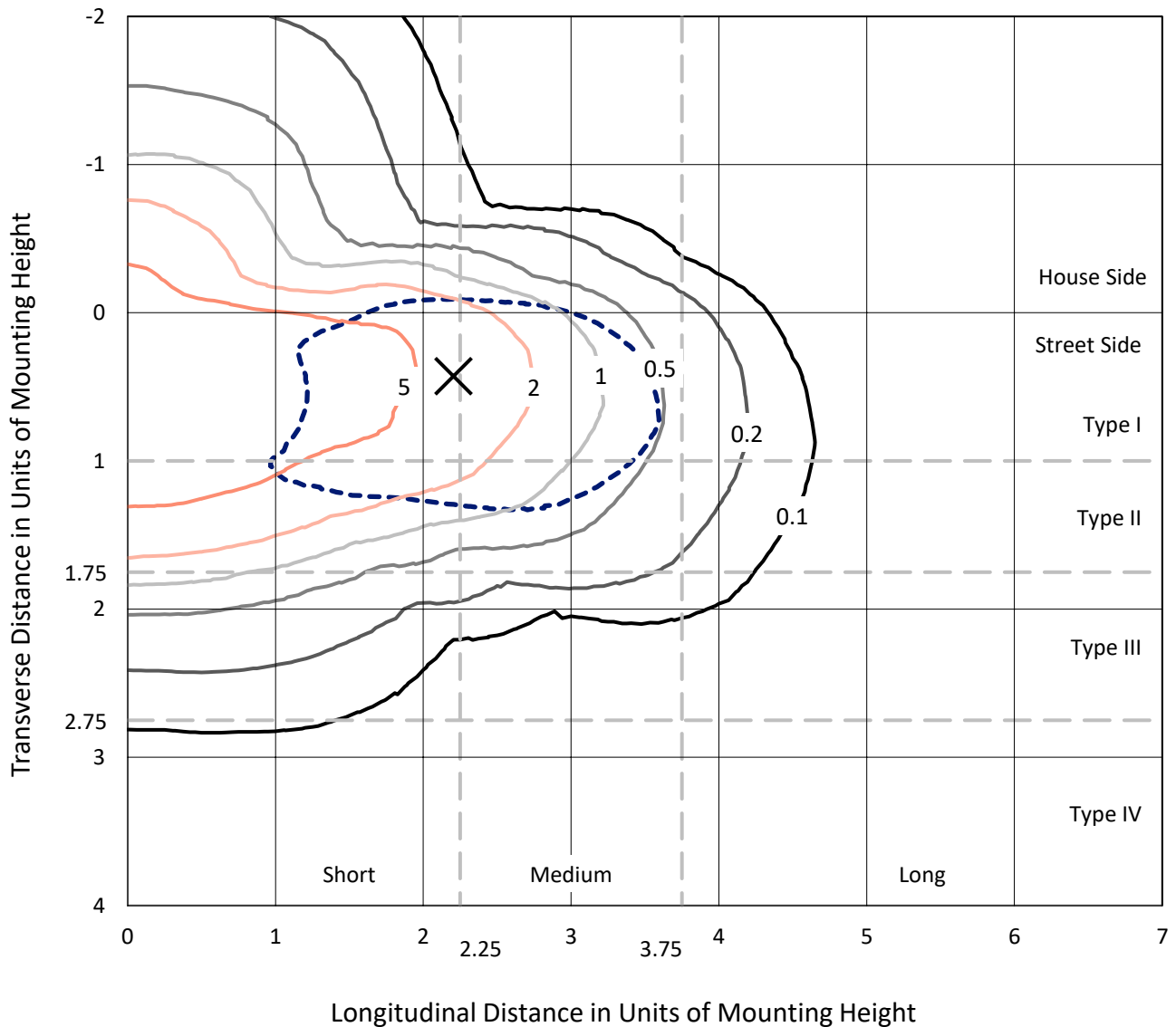
Lumens per Lamp: N/A
Luminaire Lumens: 52849.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

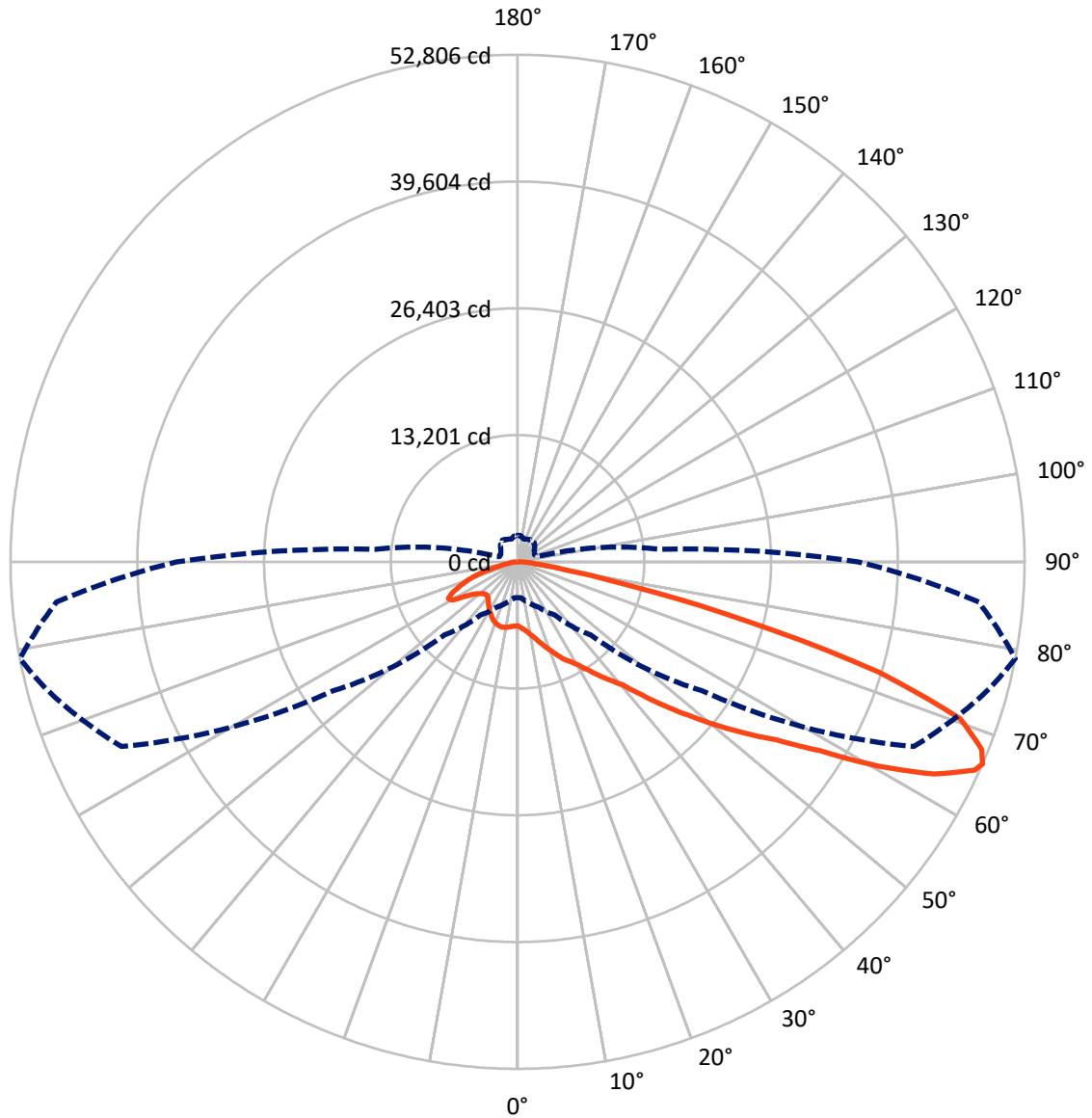
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 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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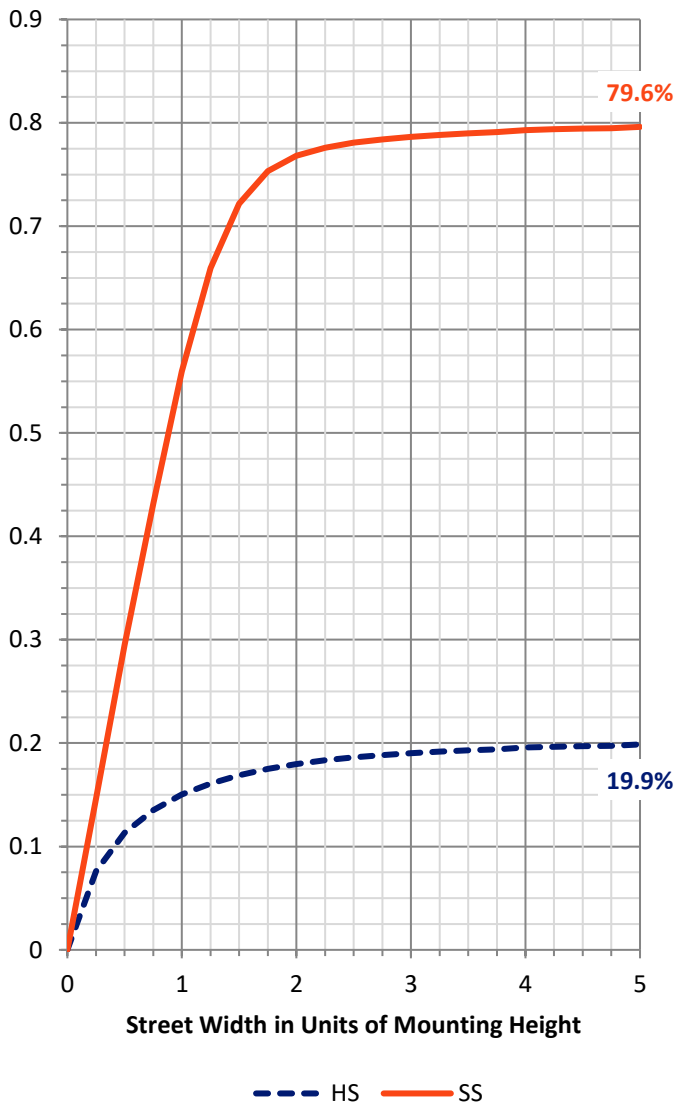
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10672.1	0.0	10672.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	42177.0	0.0	42177.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	52849.1	0.0	52849.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.2	1.2
10°-20°	2026.3	3.8
20°-30°	3478.2	6.6
30°-40°	5373.1	10.2
40°-50°	8606.4	16.3
50°-60°	12849.9	24.3
60°-70°	13203.3	25.0
70°-80°	5852.8	11.1
80°-90°	803.1	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°	52849.1	100.0
0°-180°	52849.1	100.0

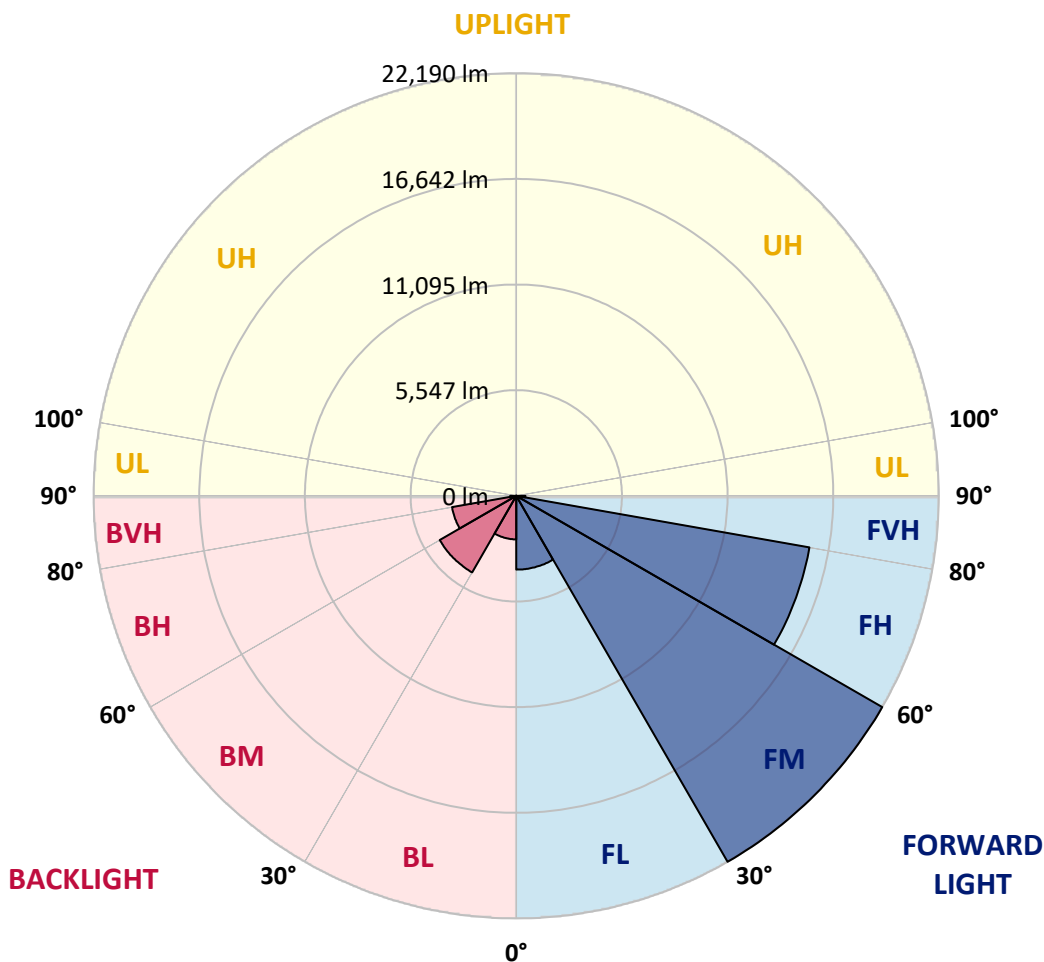


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3874.2	7.3			
FM (30°-60°)	22189.6	42.0			
FH (60°-80°)	15631.6	29.6			G5
FVH (80°-90°)	481.6	0.9			G3/500
BL (0°-30°)	2286.5	4.3	B3/2500		
BM (30°-60°)	4639.8	8.8	B3/5000		
BH (60°-80°)	3424.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	321.4	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°	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4
2.5°	7097.7	7103.5	7103.5	7080.3	7086.1	7103.5	7039.6	6900.1	6900.1	6876.8
5°	7533.7	7504.6	7464.0	7469.8	7446.5	7446.5	7376.8	7243.1	7126.8	7080.3
7.5°	7591.8	7620.9	7615.1	7684.8	7719.7	7719.7	7754.6	7644.2	7469.8	7359.3
10°	7708.1	7632.5	7626.7	7789.5	7841.8	7963.9	8103.4	8045.3	7899.9	7743.0
12.5°	7777.9	7824.4	7824.4	7905.7	8027.8	8208.0	8452.2	8562.6	8335.9	8173.1
15°	7882.5	7818.5	8004.6	8074.3	8306.8	8434.7	8783.5	9068.4	8917.2	8719.6
17.5°	7929.0	7888.3	7992.9	8120.8	8516.1	8707.9	9132.3	9527.6	9399.7	9271.8
20°	8167.3	8161.5	8208.0	8312.7	8597.5	8975.3	9504.3	10050.8	10097.3	9864.7
22.5°	8748.6	8673.1	8673.1	8632.4	8754.4	9143.9	9858.9	10614.6	10823.9	10550.7
25°	9283.4	9388.1	9324.1	9138.1	9091.6	9295.1	10114.7	11213.4	11492.4	11236.6
27.5°	9969.4	10004.3	10114.7	9864.7	9545.0	9609.0	10393.7	11550.5	12126.0	11783.0
30°	10957.6	10893.6	10870.4	10591.4	10172.8	10085.6	10713.4	12044.6	12957.3	12474.8
32.5°	11626.1	11783.0	11777.2	11393.6	10887.8	10696.0	11108.7	12509.7	13846.7	13399.1
35°	12951.5	13114.2	12986.3	12422.5	11829.5	11445.9	11678.4	13114.2	14864.0	14515.2
37.5°	14643.1	15026.7	14753.5	13713.0	12875.9	12457.4	12469.0	13771.1	15904.5	15619.7
40°	15811.5	16328.8	15951.0	14974.4	14085.0	13689.7	13532.8	14550.1	17148.5	16846.2
42.5°	17258.9	17689.1	17491.5	16526.5	15486.0	15148.8	14834.9	15852.2	19049.4	18909.8
45°	18840.1	19043.5	18979.6	18369.2	17212.4	17096.2	16404.4	17567.0	21287.4	21345.5
47.5°	20310.8	20421.2	20543.3	20101.5	19380.7	19479.5	18212.3	19403.9	23461.5	23845.1
50°	20688.6	21066.5	21351.3	21647.8	21804.7	22473.2	20206.1	21659.4	25961.1	26705.1
52.5°	20305.0	20275.9	21142.0	22072.1	23641.7	25042.6	22920.8	24461.3	28170.0	29640.7
55°	18561.1	18502.9	19898.1	21130.4	24193.9	26472.6	26798.1	28193.3	30838.2	32750.7
57.5°	15509.2	15148.8	16671.8	18694.8	22996.4	26629.6	30692.9	33733.1	34942.2	37122.1
60°	10422.8	10271.7	11730.7	14143.1	18671.5	24403.2	33023.9	40668.1	40726.2	43179.3
62.5°	6417.6	6446.7	7382.6	9190.4	13073.5	19345.8	32018.3	46207.9	46219.5	48678.5
65°	4197.0	4214.5	4970.2	5970.0	8167.3	13120.0	26478.4	46643.9	50038.7	52323.2
66°	3737.8	3743.6	4394.7	5208.5	6766.4	10736.7	23385.9	45510.3	50899.0	52805.7
67.5°	3150.7	3226.2	3749.4	4377.2	5278.2	7713.9	18555.2	42231.8	50457.2	52131.4
70°	2464.7	2505.4	2918.1	3557.6	3958.7	4464.4	11027.3	34424.9	46184.7	48899.3
72.5°	1976.4	2011.3	2325.2	2889.1	3214.6	2941.4	6004.9	24978.7	36482.7	39377.6
75°	1668.3	1674.2	1825.3	2272.9	2644.9	2209.0	3197.2	16032.4	23409.1	24757.8
77.5°	1348.6	1371.9	1476.5	1732.3	2127.6	1738.1	1906.7	8981.2	11754.0	11852.8
80°	1098.7	1110.3	1174.2	1261.4	1621.8	1284.7	1290.5	4383.0	5039.9	4923.7
82.5°	866.1	877.8	953.3	935.9	1191.7	918.5	802.2	2110.1	2319.4	2272.9
85°	488.3	488.3	749.9	749.9	755.7	581.3	488.3	994.0	1226.6	1145.2
87.5°	157.0	162.8	226.7	238.3	377.8	261.6	238.3	372.0	581.3	511.5
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°
6673.4	0°	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4	6673.4
6836.1	2.5°	6812.9	6719.9	6679.2	6545.5	6510.6	6423.4	6382.7	6330.4	6313.0	6237.4
6958.2	5°	6865.2	6836.1	6673.4	6504.8	6376.9	6318.8	6231.6	6115.3	6103.7	5999.1
7237.2	7.5°	7086.1	6987.3	6702.4	6522.2	6266.5	6121.1	5929.3	5871.2	5795.6	5760.7
7580.2	10°	7429.1	7179.1	6754.8	6301.3	5987.4	5813.0	5673.5	5632.8	5638.7	5615.4
7923.2	12.5°	7673.2	7434.9	6667.6	6115.3	5708.4	5539.8	5528.2	5568.9	5632.8	5603.8
8324.3	15°	8022.0	7574.4	6603.6	5807.2	5481.7	5435.2	5429.4	5551.5	5545.6	5545.6
8864.9	17.5°	8347.5	7713.9	6371.1	5539.8	5243.4	5278.2	5318.9	5313.1	5371.3	5394.5
9312.5	20°	8760.3	7876.7	6045.6	5272.4	5063.2	5051.5	5045.7	5051.5	5109.7	5144.5
9818.2	22.5°	9120.7	7911.6	5772.4	5016.7	4848.1	4801.6	4726.0	4801.6	4772.5	4784.1
10504.2	25°	9434.6	7917.4	5382.9	4824.8	4633.0	4528.4	4470.2	4464.4	4412.1	4406.3
10893.6	27.5°	9696.2	7719.7	5039.9	4557.4	4377.2	4278.4	4272.6	4208.6	4074.9	3987.7
11352.9	30°	9899.6	7568.6	4801.6	4324.9	4150.5	4133.1	4080.8	3935.4	3761.0	3650.6
12201.6	32.5°	10260.0	7266.3	4476.0	4086.6	3999.4	3976.1	3854.0	3726.2	3563.4	3458.8
12922.4	35°	10527.4	6987.3	4261.0	3883.1	3842.4	3795.9	3691.3	3551.8	3505.3	3482.0
13695.5	37.5°	10829.7	6673.4	3999.4	3708.7	3749.4	3662.2	3540.1	3476.2	3639.0	3598.3
14904.7	40°	11312.2	6452.5	3743.6	3604.1	3644.8	3546.0	3389.0	3365.8	3569.2	3423.9
16456.7	42.5°	12195.8	6446.7	3586.6	3447.1	3476.2	3400.6	3261.1	3249.5	3330.9	3156.5
18398.3	45°	13294.4	6650.1	3470.4	3330.9	3307.6	3296.0	3249.5	3197.2	3127.4	2900.7
20560.7	47.5°	14608.2	6981.5	3447.1	3156.5	3185.5	3284.4	3226.2	3092.5	2912.3	2767.0
22967.3	50°	16201.0	7667.4	3389.0	3028.6	3080.9	3237.9	3191.4	3005.3	2842.6	2749.6
25170.5	52.5°	17962.3	8533.6	3313.4	2831.0	2947.2	3197.2	3220.4	3046.0	2807.7	2726.3
28152.6	55°	20037.6	9812.4	3226.2	2615.9	2790.3	3156.5	3220.4	2929.8	2761.2	2761.2
32704.2	57.5°	24135.8	12114.4	3046.0	2418.2	2650.7	3080.9	3127.4	2935.6	2767.0	2767.0
39767.1	60°	30146.5	15706.9	2703.1	2267.1	2517.0	2976.3	3057.7	2848.4	2703.1	2737.9
45580.1	62.5°	34849.2	16799.7	2412.4	2121.8	2383.3	2784.4	2964.7	2755.4	2627.5	2755.4
48242.5	65°	35854.9	15695.2	2115.9	1964.8	2197.3	2598.4	2831.0	2621.7	2517.0	2767.0
48207.6	66°	35494.5	14834.9	2011.3	1918.3	2115.9	2505.4	2749.6	2575.2	2458.9	2755.4
47114.7	67.5°	33890.1	13544.4	1895.1	1819.5	2005.5	2371.7	2656.6	2511.2	2365.9	2720.5
43138.6	70°	30402.2	11486.6	1697.4	1645.1	1848.5	2150.8	2441.5	2348.5	2220.6	2505.4
33930.8	72.5°	23415.0	9178.8	1488.1	1494.0	1668.3	1924.1	2226.4	2162.5	2052.0	2197.3
20787.5	75°	14259.4	5865.4	1296.3	1307.9	1453.3	1709.0	2022.9	1976.4	1842.7	1924.1
9609.0	77.5°	6318.8	2906.5	1092.9	1116.1	1232.4	1505.6	1761.4	1685.8	1546.3	1563.7
3906.4	80°	2453.1	1377.7	889.4	918.5	994.0	1203.3	1459.1	1389.3	1267.2	1244.0
1796.2	82.5°	1180.0	767.3	685.9	697.6	726.6	959.2	1255.6	1168.4	1005.7	901.0
842.9	85°	592.9	476.7	482.5	441.8	482.5	651.1	848.7	709.2	587.1	523.2
302.3	87.5°	238.3	238.3	238.3	203.5	215.1	308.1	395.3	267.4	244.1	145.3
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°
6673.4
6307.2
5987.4
5836.3
5580.5
5644.5
5539.8
5435.2
5115.5
4819.0
4406.3
3999.4
3650.6
3441.3
3499.5
3615.7
3389.0
3104.2
2842.6
2737.9
2732.1
2714.7
2749.6
2743.8
2732.1
2767.0
2778.6
2761.2
2668.2
2412.4
2139.2
1895.1
1552.1
1232.4
901.0
534.8
145.3
0.0

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