

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: P574818

Luminaire Tested: **EPH-VN-06-740-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574818
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-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

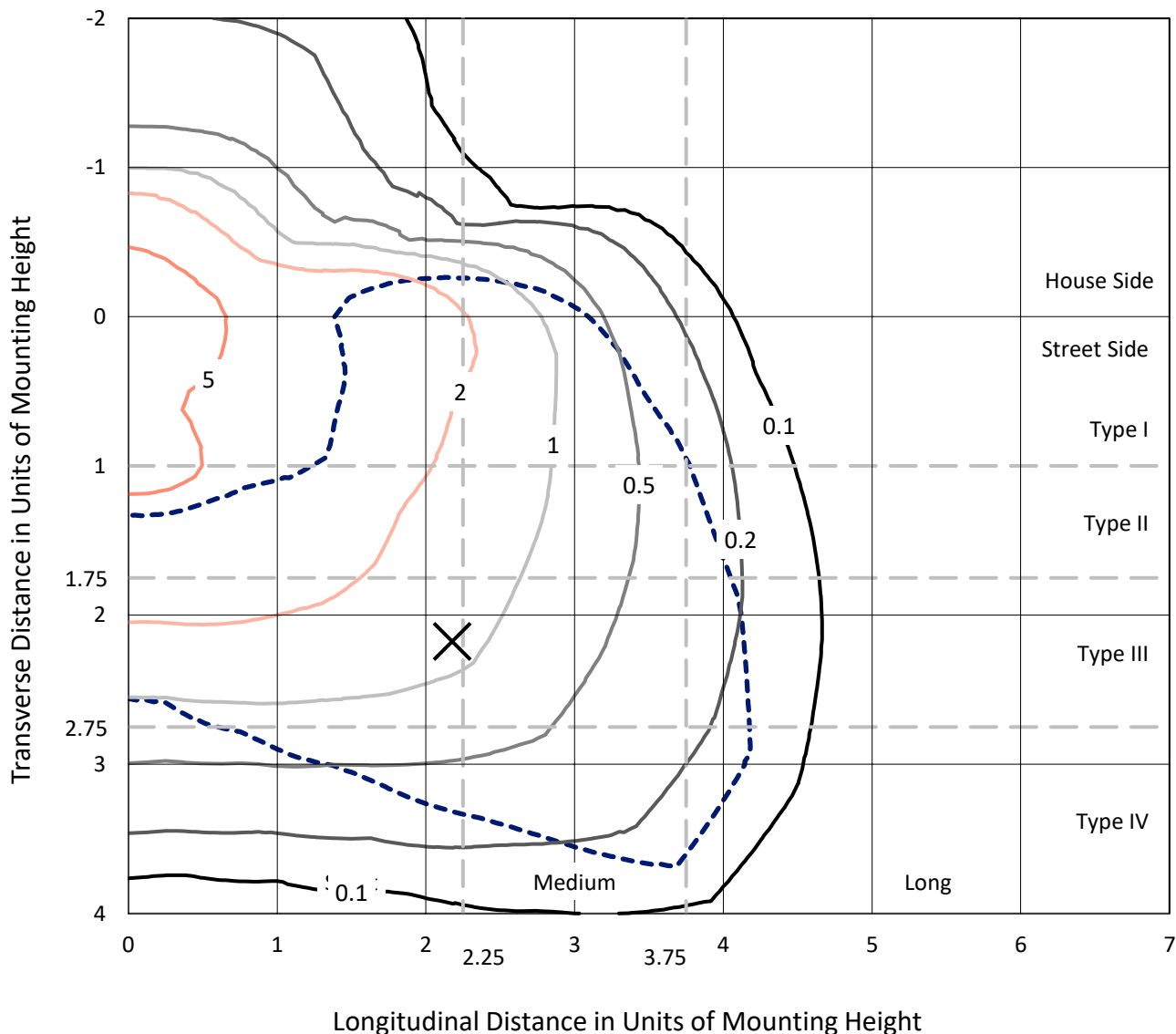
Lumens per Lamp: N/A
Luminaire Lumens: 53483.4 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

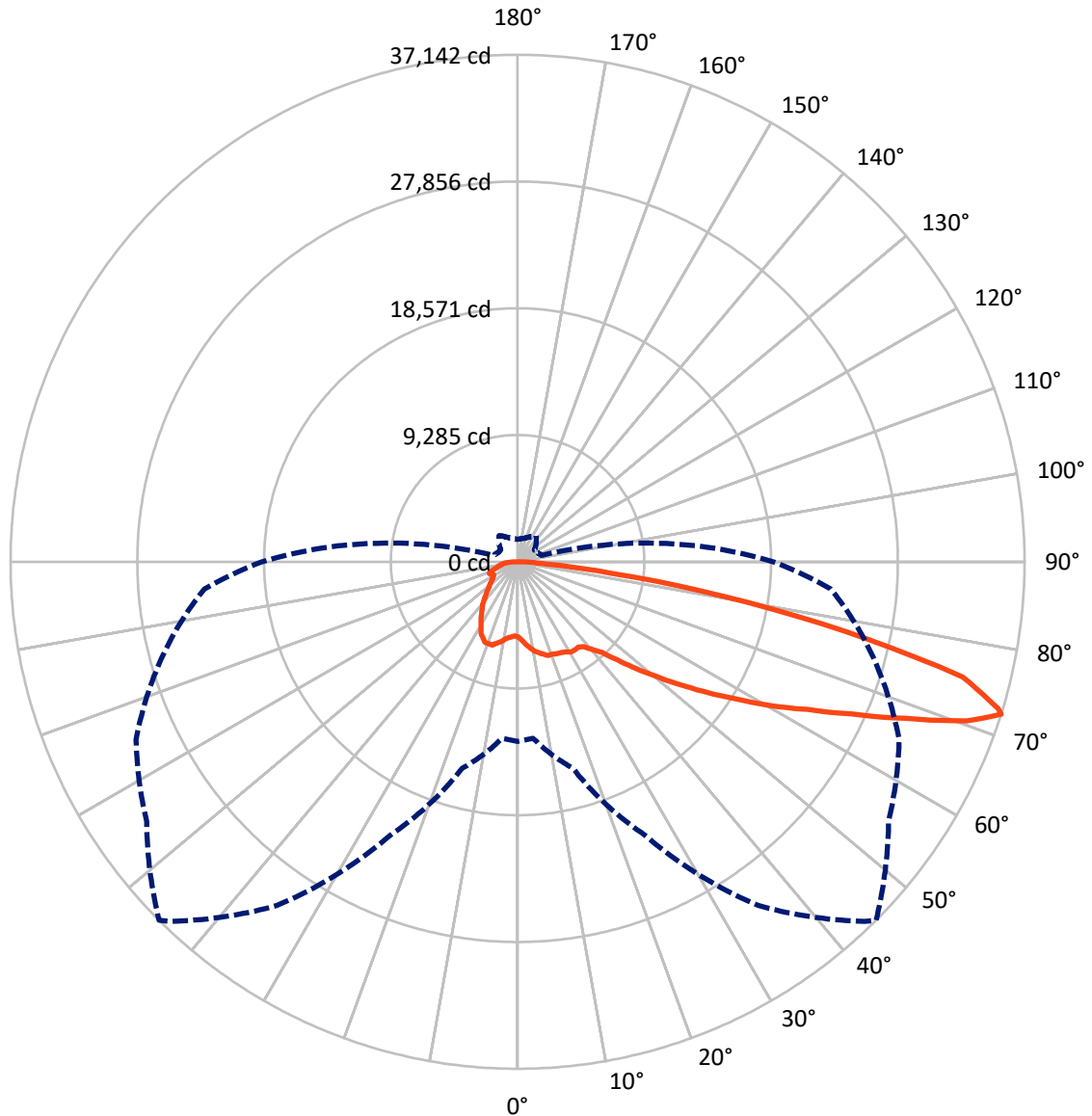
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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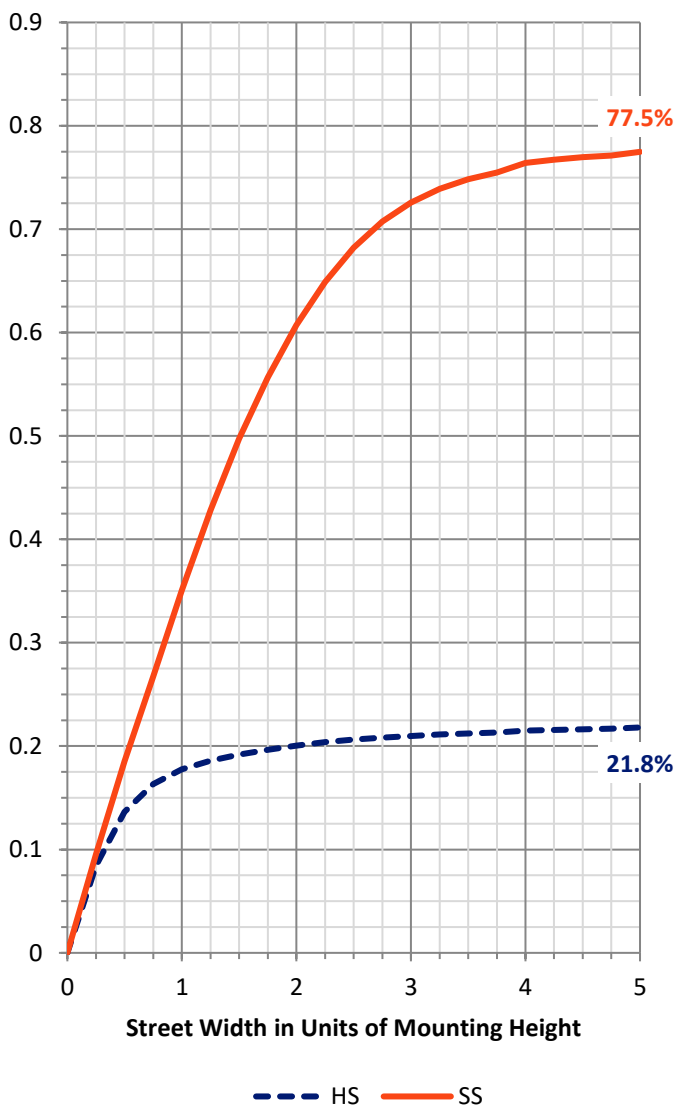
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11905.7	0.0	11905.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	41577.7	0.0	41577.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	53483.4	0.0	53483.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.6	1.1
10°-20°	1875.2	3.5
20°-30°	3166.6	5.9
30°-40°	4382.0	8.2
40°-50°	6268.1	11.7
50°-60°	10109.7	18.9
60°-70°	14910.4	27.9
70°-80°	10827.5	20.2
80°-90°	1380.2	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°	53483.4	100.0
0°-180°	53483.4	100.0

Coefficient of Utilization

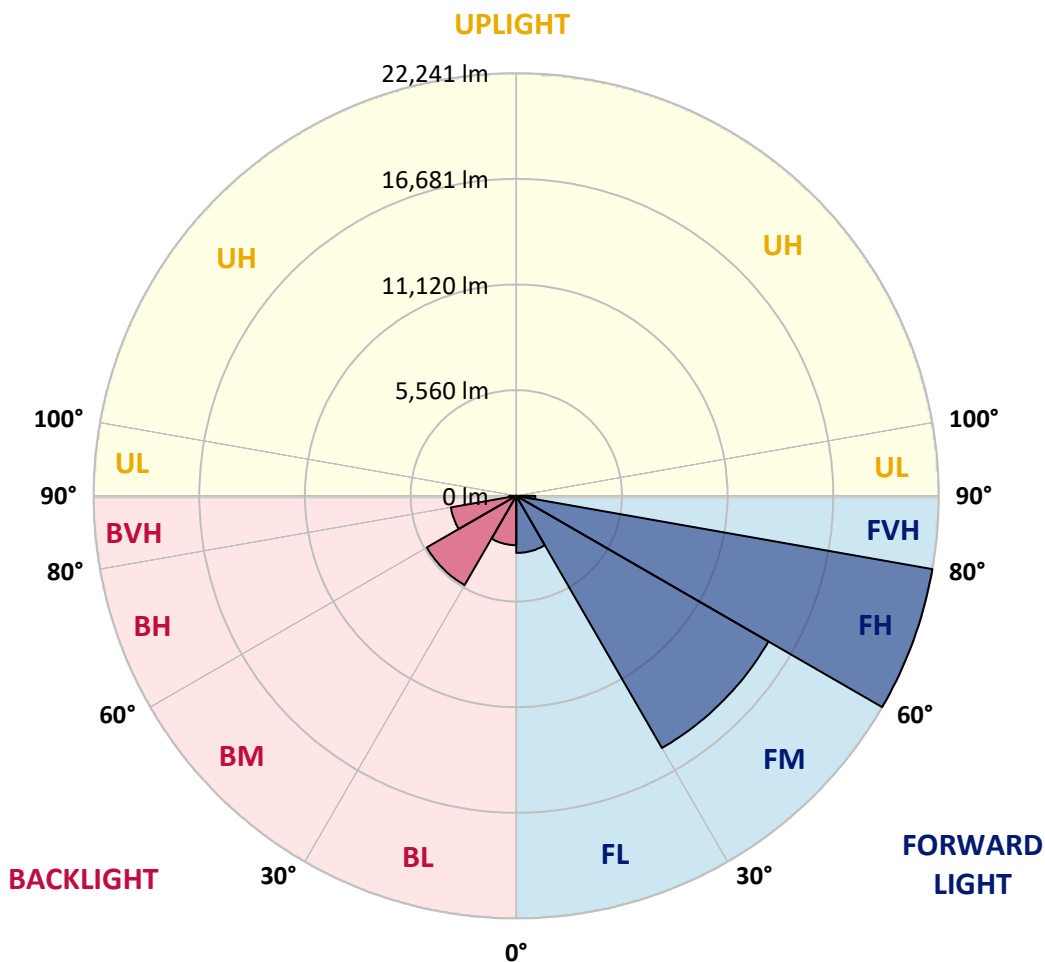


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3005.8	5.6			
FM (30°-60°)	15326.5	28.7			
FH (60°-80°)	22240.8	41.6			G5
FVH (80°-90°)	1004.6	1.9			G5
BL (0°-30°)	2599.5	4.9	B4/5000		
BM (30°-60°)	5433.4	10.2	B4/8500		
BH (60°-80°)	3497.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	375.6	0.7			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°	35°	44°	45°	55°	65°	75°
0°	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8
2.5°	5802.0	5836.6	5802.0	5796.2	5738.5	5698.1	5732.7	5680.8	5623.2	5600.1
5°	6332.5	6338.3	6274.9	6280.6	6159.5	6032.6	6055.7	5900.0	5732.7	5669.3
7.5°	6874.7	6811.2	6719.0	6690.1	6499.8	6361.4	6344.1	6205.7	5946.1	5802.0
10°	7226.5	7249.6	7099.6	6972.7	6811.2	6644.0	6638.2	6378.7	6228.7	6015.3
12.5°	7537.9	7543.7	7416.8	7215.0	7013.1	6805.5	6834.3	6719.0	6465.2	6263.3
15°	7780.2	7745.5	7607.1	7422.6	7209.2	7047.7	7030.4	6932.4	6719.0	6551.7
17.5°	7849.4	7832.1	7693.6	7497.6	7289.9	7168.8	7215.0	7053.5	6967.0	6817.0
20°	7716.7	7676.3	7653.3	7434.1	7284.2	7272.6	7232.3	7266.9	7122.7	6984.3
22.5°	7474.5	7457.2	7445.6	7272.6	7203.4	7255.3	7324.5	7376.4	7353.4	7220.7
25°	7226.5	7307.2	7232.3	7151.5	7249.6	7382.2	7364.9	7532.2	7532.2	7491.8
27.5°	7399.5	7347.6	7289.9	7249.6	7284.2	7491.8	7480.3	7682.1	7757.1	7682.1
30°	7832.1	7780.2	7612.9	7434.1	7388.0	7612.9	7670.6	7849.4	7884.0	7699.4
32.5°	8645.3	8616.4	8351.1	7826.3	7543.7	7670.6	7699.4	7901.3	7872.4	7757.1
35°	9850.6	9752.6	9383.5	8495.3	7872.4	7745.5	7670.6	7832.1	7941.6	7884.0
37.5°	11171.4	11061.8	10606.2	9481.5	8466.5	7947.4	7889.7	8022.4	8149.3	8120.4
40°	12434.4	12434.4	12024.9	10715.7	9348.9	8437.6	8449.2	8299.2	8414.6	8362.7
42.5°	13680.2	13634.0	13466.8	12163.3	10294.7	9256.6	9072.0	8697.2	8904.8	8887.5
45°	14943.2	14908.6	14862.5	13512.9	11650.0	10363.9	10265.9	9591.1	9781.4	9700.7
47.5°	15952.5	15992.9	15992.9	15018.2	13097.6	11840.4	11696.2	10629.2	10992.6	11032.9
50°	16811.8	16829.1	16811.8	16454.2	14712.5	13530.2	13236.1	12151.8	12515.1	12832.4
52.5°	17999.9	18023.0	17942.2	17803.8	16904.1	15306.5	14977.8	13772.4	14516.4	14850.9
55°	19464.8	19291.8	19141.8	19245.6	19009.2	17261.7	16921.4	15445.0	16563.8	17007.9
57.5°	19735.9	19885.8	20266.5	21091.2	21431.5	19164.9	18968.8	17498.1	18876.5	19262.9
60°	20693.2	20445.3	21379.6	23167.4	23548.1	21644.9	21443.0	19747.4	21177.7	21581.4
62.5°	21321.9	21310.4	22694.5	24816.9	25682.0	24217.1	23807.6	22671.4	23663.4	24055.6
65°	21137.3	21304.6	23761.5	25785.8	27464.1	27141.1	26904.7	25186.0	26495.2	26460.6
67.5°	19453.3	19926.2	23086.7	26483.7	30117.1	30705.4	30630.4	28721.4	28796.4	28063.9
70°	17117.5	16956.0	20231.9	25757.0	31443.6	34932.8	34915.5	31351.3	30866.9	28415.7
72°	13149.6	12970.8	15664.1	22117.8	30745.7	36622.7	37141.7	33173.8	30843.8	26956.6
72.5°	11938.4	11782.7	14464.5	20820.1	29972.9	37061.0	36818.8	33243.0	30601.6	26270.3
75°	5496.3	5317.5	7226.5	12745.8	23380.8	32839.3	33664.0	31109.1	26725.9	20912.4
77.5°	1637.9	1586.0	2324.2	5144.5	13587.9	24194.0	24511.2	23473.1	18657.4	11454.0
80°	911.2	917.0	1199.6	1926.3	5975.0	13985.8	15127.8	14499.1	9152.8	3783.4
82.5°	507.5	536.4	749.8	1141.9	2745.3	6419.1	6909.3	6661.3	3310.5	1776.3
85°	265.3	276.8	392.2	611.3	1557.2	2030.1	2087.8	2237.7	1718.7	1211.1
87.5°	103.8	103.8	144.2	253.8	576.7	628.6	565.2	686.3	986.2	784.4
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°
5507.8	0°	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8
5548.2	2.5°	5594.3	5548.2	5542.4	5467.4	5490.5	5427.1	5432.8	5421.3	5427.1	5415.5
5565.5	5°	5565.5	5530.9	5432.8	5496.3	5438.6	5519.4	5582.8	5559.7	5577.0	5571.3
5657.8	7.5°	5605.9	5559.7	5548.2	5513.6	5565.5	5600.1	5652.0	5796.2	5784.7	5802.0
5830.8	10°	5727.0	5675.1	5640.5	5692.4	5663.5	5773.1	5830.8	5905.8	6038.4	6044.2
6078.8	12.5°	5963.4	5928.8	5859.6	5871.2	5969.2	6003.8	6038.4	6084.6	6171.1	6153.8
6246.0	15°	6234.5	6159.5	6119.2	6107.6	6130.7	6171.1	6165.3	6211.4	6257.6	6297.9
6522.9	17.5°	6430.6	6332.5	6344.1	6401.8	6396.0	6384.5	6309.5	6286.4	6309.5	6332.5
6770.9	20°	6632.5	6644.0	6557.5	6505.6	6482.5	6367.2	6309.5	6240.3	6171.1	6205.7
6978.5	22.5°	6886.2	6834.3	6707.4	6551.7	6436.4	6367.2	6188.4	6067.3	6067.3	6101.9
7289.9	25°	7174.6	7065.0	6845.8	6563.2	6419.1	6124.9	5998.0	5980.7	5934.6	5986.5
7451.4	27.5°	7399.5	7301.5	7001.6	6522.9	6124.9	5888.5	5813.5	5790.4	5865.4	5871.2
7503.3	30°	7491.8	7462.9	7024.6	6419.1	5825.0	5444.4	5398.2	5502.1	5582.8	5703.9
7676.3	32.5°	7612.9	7624.4	7059.2	6176.8	5432.8	5052.2	4983.0	5109.9	5340.6	5438.6
7809.0	35°	7814.8	7872.4	7030.4	5876.9	5017.6	4654.3	4642.7	4677.3	4902.2	5075.3
7964.7	37.5°	8166.6	8155.0	7024.6	5519.4	4688.9	4308.2	4215.9	4227.5	4377.4	4521.6
8391.5	40°	8639.5	8593.3	7007.3	5052.2	4262.1	4014.1	3858.4	3800.7	3789.1	3748.8
8927.9	42.5°	9285.4	9193.2	7001.6	4579.3	3875.7	3610.4	3500.8	3350.8	3241.3	3033.6
9873.7	45°	10185.1	10023.7	6851.6	4135.2	3495.0	3275.9	3108.6	2999.0	2762.6	2503.0
11073.3	47.5°	11575.1	11050.2	6857.4	3645.0	3125.9	2947.1	2831.8	2641.4	2387.7	2180.1
13201.5	50°	13622.5	12422.9	6661.3	3258.6	2826.0	2704.9	2583.8	2364.6	2122.4	1978.2
15514.2	52.5°	16263.9	14470.3	6655.5	2912.5	2589.5	2503.0	2370.4	2174.3	1995.5	1903.2
18334.4	55°	19412.9	17180.9	6863.1	2629.9	2347.3	2301.2	2243.5	2082.0	1909.0	1828.2
21477.6	57.5°	22636.8	19828.1	7197.7	2428.1	2139.7	2174.3	2133.9	2007.0	1868.6	1776.3
24378.6	60°	25503.2	21927.5	6522.9	2185.8	1955.1	2030.1	2087.8	1978.2	1903.2	1897.5
27539.1	62.5°	27666.0	22827.2	4959.9	2001.3	1857.1	1995.5	2151.2	2220.4	2185.8	2232.0
29598.0	65°	28456.1	22285.0	3414.3	1903.2	1782.1	2076.2	2422.3	2399.2	2197.4	2110.8
30515.0	67.5°	27348.8	20087.7	2531.9	1787.9	1730.2	2243.5	2578.0	2289.6	1984.0	1972.4
27885.1	70°	23519.2	17025.2	2064.7	1666.8	1643.7	2151.2	2508.8	2122.4	1868.6	1793.6
23034.8	72°	18738.1	13259.1	1810.9	1580.3	1505.3	1920.5	2347.3	1989.7	1770.6	1678.3
21518.0	72.5°	17106.0	12290.2	1776.3	1539.9	1476.4	1868.6	2266.6	1949.4	1747.5	1666.8
12890.0	75°	9383.5	6292.2	1563.0	1413.0	1245.7	1614.9	2099.3	1828.2	1649.5	1534.1
4781.1	77.5°	3489.2	2439.6	1349.6	1251.5	1078.5	1395.7	1909.0	1736.0	1499.5	1355.3
1591.8	80°	1338.0	1286.1	1101.6	1055.4	905.5	1222.7	1759.0	1557.2	1274.6	1130.4
870.9	82.5°	813.2	749.8	836.3	824.7	692.1	1113.1	1655.2	1459.1	1130.4	917.0
467.2	85°	444.1	444.1	582.5	559.4	484.5	888.2	1251.5	968.9	715.2	588.3
230.7	87.5°	196.1	230.7	311.4	294.1	265.3	501.8	611.3	513.3	357.6	242.2
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°
5507.8
5386.7
5577.0
5836.6
5975.0
6217.2
6280.6
6321.0
6257.6
6084.6
6009.6
5963.4
5709.7
5513.6
5173.3
4504.3
3760.3
3045.2
2503.0
2157.0
1995.5
1868.6
1822.5
1764.8
1857.1
2237.7
2157.0
1937.8
1759.0
1637.9
1603.3
1522.6
1326.5
1084.3
888.2
599.8
259.5
0.0

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