

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: P574819

Luminaire Tested: **EPH-VN-07-740-U-T4W**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574819  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-740-U-T4W  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

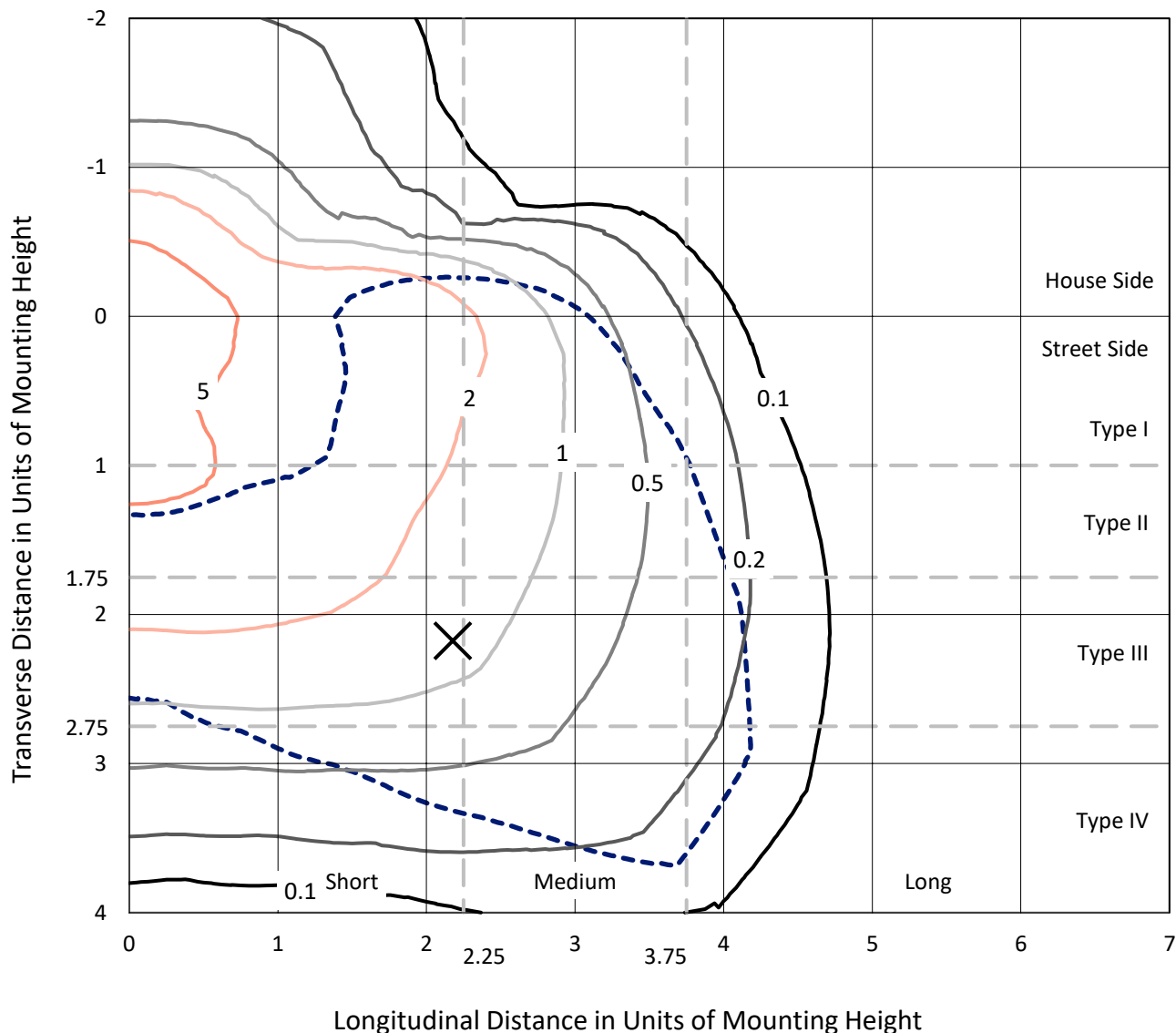
Lumens per Lamp: N/A  
Luminaire Lumens: 57060 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7  
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

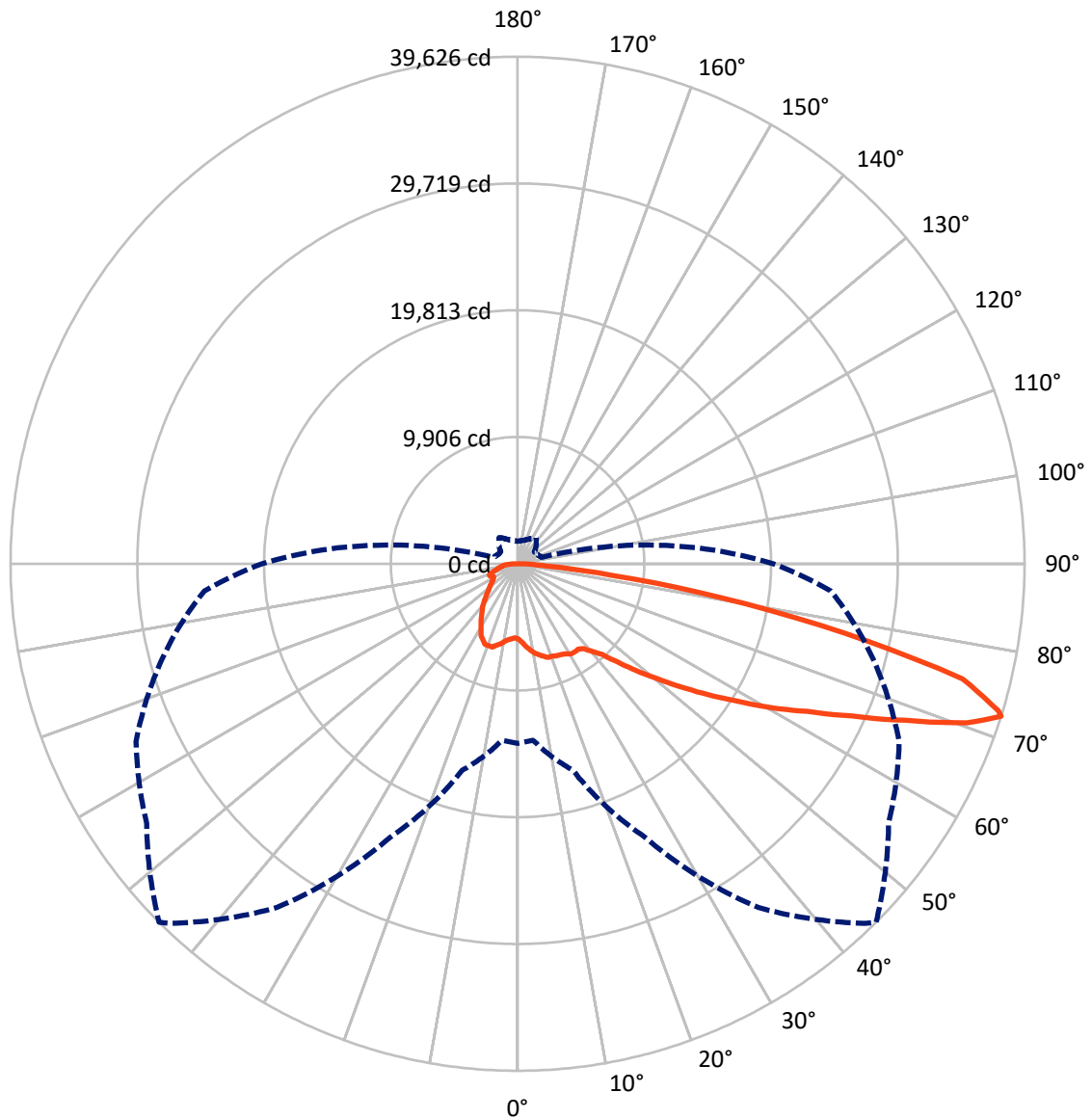
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P574819  
CATALOG NUMBER: EPH-VN-07-740-U-T4W

### Luminous Intensity Polar Plot



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

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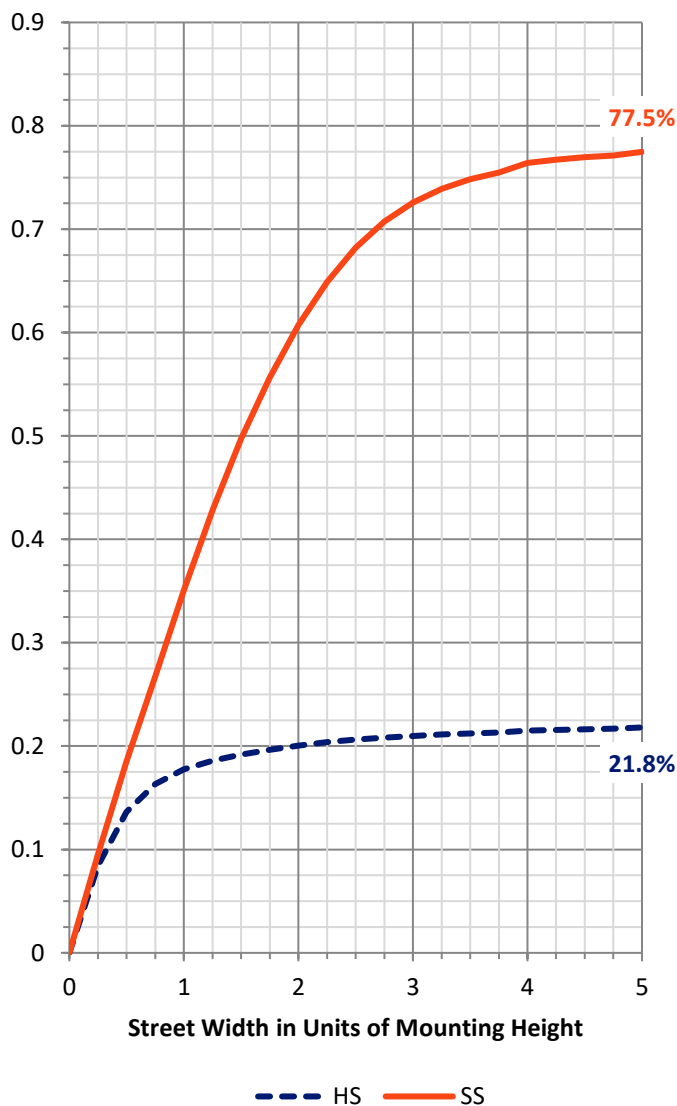
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12701.9	0.0	12701.9
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	44358.1	0.0	44358.1
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	57060.0	0.0	57060.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.3	1.1
10°-20°	2000.5	3.5
20°-30°	3378.3	5.9
30°-40°	4675.1	8.2
40°-50°	6687.3	11.7
50°-60°	10785.8	18.9
60°-70°	15907.5	27.9
70°-80°	11551.6	20.2
80°-90°	1472.5	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°	57060.0	100.0
0°-180°	57060.0	100.0

**Coefficient of Utilization**

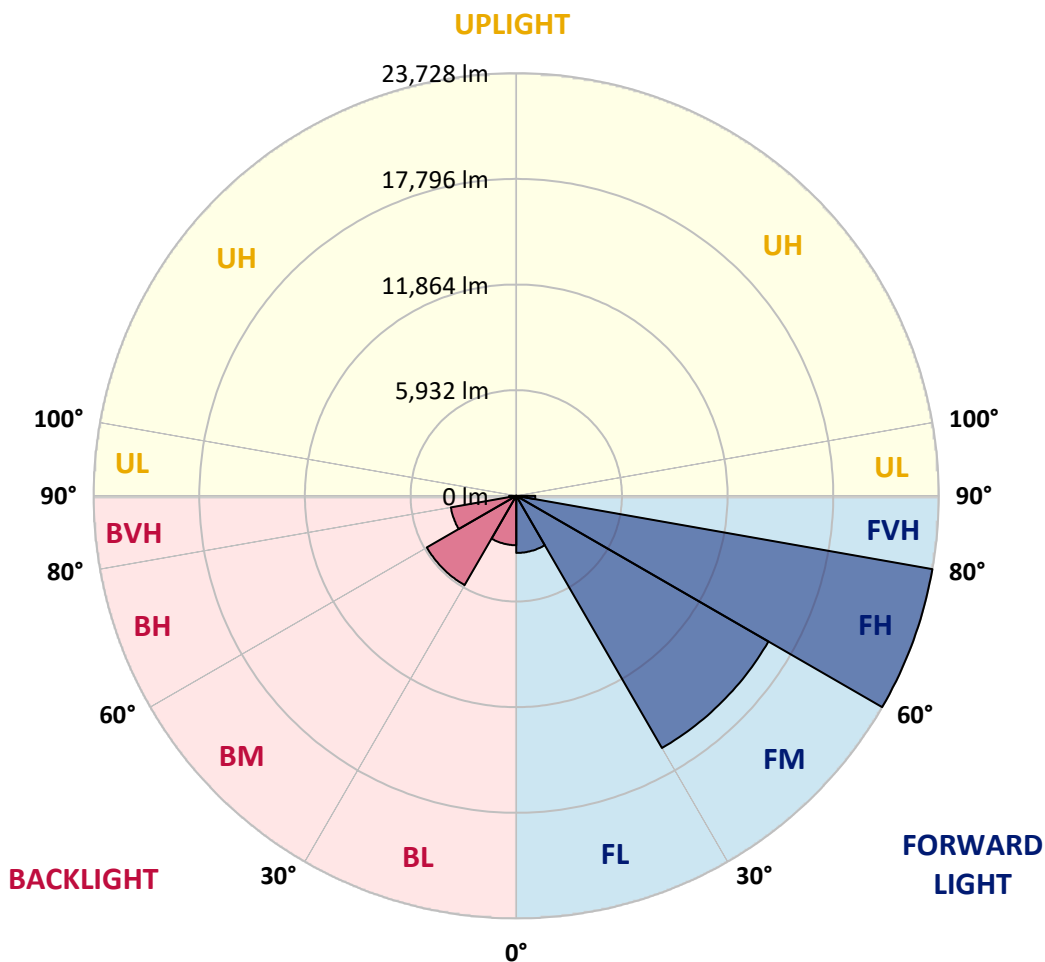


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 CATALOG NUMBER: EPH-VN-07-740-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3206.8	5.6			
FM (30°-60°)	16351.4	28.7			
FH (60°-80°)	23728.1	41.6			G5
FVH (80°-90°)	1071.8	1.9			G5
BL (0°-30°)	2773.4	4.9	B4/5000		
BM (30°-60°)	5796.8	10.2	B4/8500		
BH (60°-80°)	3731.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	400.7	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°	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1
2.5°	6189.9	6226.9	6189.9	6183.8	6122.3	6079.2	6116.1	6060.7	5999.2	5974.6
5°	6756.0	6762.2	6694.5	6700.7	6571.4	6436.1	6460.7	6294.6	6116.1	6048.4
7.5°	7334.4	7266.7	7168.3	7137.5	6934.5	6786.8	6768.3	6620.7	6343.8	6189.9
10°	7709.7	7734.4	7574.4	7439.0	7266.7	7088.3	7082.1	6805.3	6645.3	6417.6
12.5°	8042.0	8048.2	7912.8	7697.4	7482.1	7260.6	7291.3	7168.3	6897.5	6682.2
15°	8300.4	8263.5	8115.8	7919.0	7691.3	7519.0	7500.5	7395.9	7168.3	6989.8
17.5°	8374.3	8355.8	8208.1	7998.9	7777.4	7648.2	7697.4	7525.2	7432.9	7272.9
20°	8232.8	8189.7	8165.1	7931.3	7771.3	7759.0	7715.9	7752.8	7599.0	7451.3
22.5°	7974.3	7955.9	7943.6	7759.0	7685.1	7740.5	7814.3	7869.7	7845.1	7703.6
25°	7709.7	7795.9	7715.9	7629.8	7734.4	7875.9	7857.4	8035.9	8035.9	7992.8
27.5°	7894.3	7839.0	7777.4	7734.4	7771.3	7992.8	7980.5	8195.8	8275.8	8195.8
30°	8355.8	8300.4	8122.0	7931.3	7882.0	8122.0	8183.5	8374.3	8411.2	8214.3
32.5°	9223.4	9192.6	8909.6	8349.7	8048.2	8183.5	8214.3	8429.7	8398.9	8275.8
35°	10509.4	10404.8	10011.0	9063.4	8398.9	8263.5	8183.5	8355.8	8472.7	8411.2
37.5°	11918.4	11801.5	11315.4	10115.6	9032.6	8478.9	8417.3	8558.9	8694.2	8663.5
40°	13265.9	13265.9	12829.1	11432.3	9974.1	9001.9	9014.2	8854.2	8977.3	8921.9
42.5°	14595.0	14545.8	14367.3	12976.7	10983.2	9875.6	9678.7	9278.8	9500.3	9481.8
45°	15942.5	15905.6	15856.4	14416.6	12429.1	11057.0	10952.4	10232.5	10435.5	10349.4
47.5°	17019.3	17062.4	17062.4	16022.5	13973.5	12632.2	12478.3	11340.0	11727.7	11770.7
50°	17936.1	17954.5	17936.1	17554.6	15696.4	14435.0	14121.2	12964.4	13352.1	13690.5
52.5°	19203.6	19228.2	19142.1	18994.4	18034.5	16330.1	15979.4	14693.4	15487.2	15844.1
55°	20766.5	20581.9	20421.9	20532.7	20280.4	18416.0	18053.0	16477.8	17671.5	18145.3
57.5°	21055.7	21215.6	21621.7	22501.6	22864.7	20446.5	20237.3	18668.3	20138.9	20551.1
60°	22077.1	21812.5	22809.3	24716.7	25122.8	23092.3	22877.0	21068.0	22593.9	23024.6
62.5°	22747.8	22735.4	24212.2	26476.5	27399.4	25836.6	25399.7	24187.6	25245.9	25664.3
65°	22550.9	22729.3	25350.5	27510.2	29300.7	28956.2	28703.9	26870.3	28267.0	28230.1
67.5°	20754.2	21258.7	24630.6	28254.7	32131.1	32758.7	32678.7	30642.1	30722.1	29940.6
70°	18262.2	18089.9	21584.8	27479.4	33546.3	37268.9	37250.4	33447.9	32931.0	30316.0
72°	14028.9	13838.2	16711.6	23596.9	32801.8	39071.7	39625.5	35392.2	32906.4	28759.3
72.5°	12736.8	12570.6	15431.8	22212.4	31977.3	39539.4	39280.9	35466.1	32648.0	28027.1
75°	5863.8	5673.1	7709.7	13598.2	24944.4	35035.4	35915.2	33189.4	28513.1	22310.9
77.5°	1747.5	1692.1	2479.7	5488.5	14496.5	25812.0	26150.4	25042.8	19905.1	12219.9
80°	972.2	978.3	1279.8	2055.1	6374.5	14921.1	16139.4	15468.7	9764.9	4036.4
82.5°	541.5	572.2	799.9	1218.3	2928.8	6848.3	7371.3	7106.8	3531.8	1895.1
85°	283.0	295.3	418.4	652.2	1661.3	2165.9	2227.4	2387.4	1833.6	1292.1
87.5°	110.8	110.8	153.8	270.7	615.3	670.7	603.0	732.2	1052.2	836.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574819

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5876.1	0°	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1
5919.2	2.5°	5968.4	5919.2	5913.1	5833.1	5857.7	5790.0	5796.2	5783.8	5790.0	5777.7
5937.7	5°	5937.7	5900.8	5796.2	5863.8	5802.3	5888.5	5956.1	5931.5	5950.0	5943.8
6036.1	7.5°	5980.7	5931.5	5919.2	5882.3	5937.7	5974.6	6030.0	6183.8	6171.5	6189.9
6220.7	10°	6110.0	6054.6	6017.7	6073.0	6042.3	6159.2	6220.7	6300.7	6442.2	6448.4
6485.3	12.5°	6362.2	6325.3	6251.5	6263.8	6368.4	6405.3	6442.2	6491.4	6583.7	6565.3
6663.7	15°	6651.4	6571.4	6528.4	6516.1	6540.7	6583.7	6577.6	6626.8	6676.0	6719.1
6959.1	17.5°	6860.6	6756.0	6768.3	6829.9	6823.7	6811.4	6731.4	6706.8	6731.4	6756.0
7223.7	20°	7076.0	7088.3	6996.0	6940.6	6916.0	6792.9	6731.4	6657.6	6583.7	6620.7
7445.2	22.5°	7346.7	7291.3	7156.0	6989.8	6866.8	6792.9	6602.2	6473.0	6473.0	6509.9
7777.4	25°	7654.4	7537.5	7303.6	7002.1	6848.3	6534.5	6399.2	6380.7	6331.5	6386.8
7949.7	27.5°	7894.3	7789.7	7469.8	6959.1	6534.5	6282.2	6202.3	6177.6	6257.6	6263.8
8005.1	30°	7992.8	7962.0	7494.4	6848.3	6214.6	5808.5	5759.2	5870.0	5956.1	6085.3
8189.7	32.5°	8122.0	8134.3	7531.3	6589.9	5796.2	5390.1	5316.2	5451.6	5697.7	5802.3
8331.2	35°	8337.4	8398.9	7500.5	6269.9	5353.1	4965.5	4953.2	4990.1	5230.1	5414.7
8497.3	37.5°	8712.7	8700.4	7494.4	5888.5	5002.4	4596.3	4497.9	4510.2	4670.2	4824.0
8952.7	40°	9217.2	9168.0	7475.9	5390.1	4547.1	4282.5	4116.4	4054.8	4042.5	3999.5
9524.9	42.5°	9906.4	9807.9	7469.8	4885.5	4134.8	3851.8	3734.9	3574.9	3458.0	3236.5
10534.0	45°	10866.3	10694.0	7309.8	4411.7	3728.7	3494.9	3316.5	3199.6	2947.3	2670.4
11813.8	47.5°	12349.1	11789.2	7316.0	3888.7	3334.9	3144.2	3021.1	2818.1	2547.4	2325.8
14084.3	50°	14533.5	13253.6	7106.8	3476.5	3015.0	2885.8	2756.6	2522.7	2264.3	2110.5
16551.7	52.5°	17351.5	15438.0	7100.6	3107.3	2762.7	2670.4	2528.9	2319.7	2128.9	2030.5
19560.5	55°	20711.1	18329.9	7322.1	2805.8	2504.3	2455.1	2393.5	2221.2	2036.7	1950.5
22913.9	57.5°	24150.6	21154.1	7679.0	2590.4	2282.8	2319.7	2276.6	2141.3	1993.6	1895.1
26008.9	60°	27208.7	23393.8	6959.1	2332.0	2085.9	2165.9	2227.4	2110.5	2030.5	2024.3
29380.7	62.5°	29516.1	24353.7	5291.6	2135.1	1981.3	2128.9	2295.1	2368.9	2332.0	2381.2
31577.4	65°	30359.1	23775.3	3642.6	2030.5	1901.3	2215.1	2584.3	2559.7	2344.3	2252.0
32555.7	67.5°	29177.7	21431.0	2701.2	1907.4	1845.9	2393.5	2750.4	2442.8	2116.6	2104.3
29749.9	70°	25092.1	18163.7	2202.8	1778.2	1753.6	2295.1	2676.6	2264.3	1993.6	1913.6
24575.2	72°	19991.2	14145.8	1932.1	1685.9	1605.9	2049.0	2504.3	2122.8	1889.0	1790.5
22957.0	72.5°	18249.9	13112.1	1895.1	1642.9	1575.2	1993.6	2418.1	2079.7	1864.4	1778.2
13752.0	75°	10011.0	6713.0	1667.5	1507.5	1329.1	1722.8	2239.7	1950.5	1759.8	1636.7
5100.9	77.5°	3722.6	2602.7	1439.8	1335.2	1150.6	1489.0	2036.7	1852.1	1599.8	1446.0
1698.2	80°	1427.5	1372.1	1175.2	1126.0	966.0	1304.4	1876.7	1661.3	1359.8	1206.0
929.1	82.5°	867.6	799.9	892.2	879.9	738.4	1187.5	1765.9	1556.7	1206.0	978.3
498.4	85°	473.8	473.8	621.5	596.8	516.9	947.6	1335.2	1033.7	763.0	627.6
246.1	87.5°	209.2	246.1	332.3	313.8	283.0	535.3	652.2	547.6	381.5	258.4
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°
5876.1
5746.9
5950.0
6226.9
6374.5
6633.0
6700.7
6743.7
6676.0
6491.4
6411.5
6362.2
6091.5
5882.3
5519.3
4805.5
4011.8
3248.8
2670.4
2301.2
2128.9
1993.6
1944.4
1882.8
1981.3
2387.4
2301.2
2067.4
1876.7
1747.5
1710.5
1624.4
1415.2
1156.8
947.6
639.9
276.9
0.0

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