

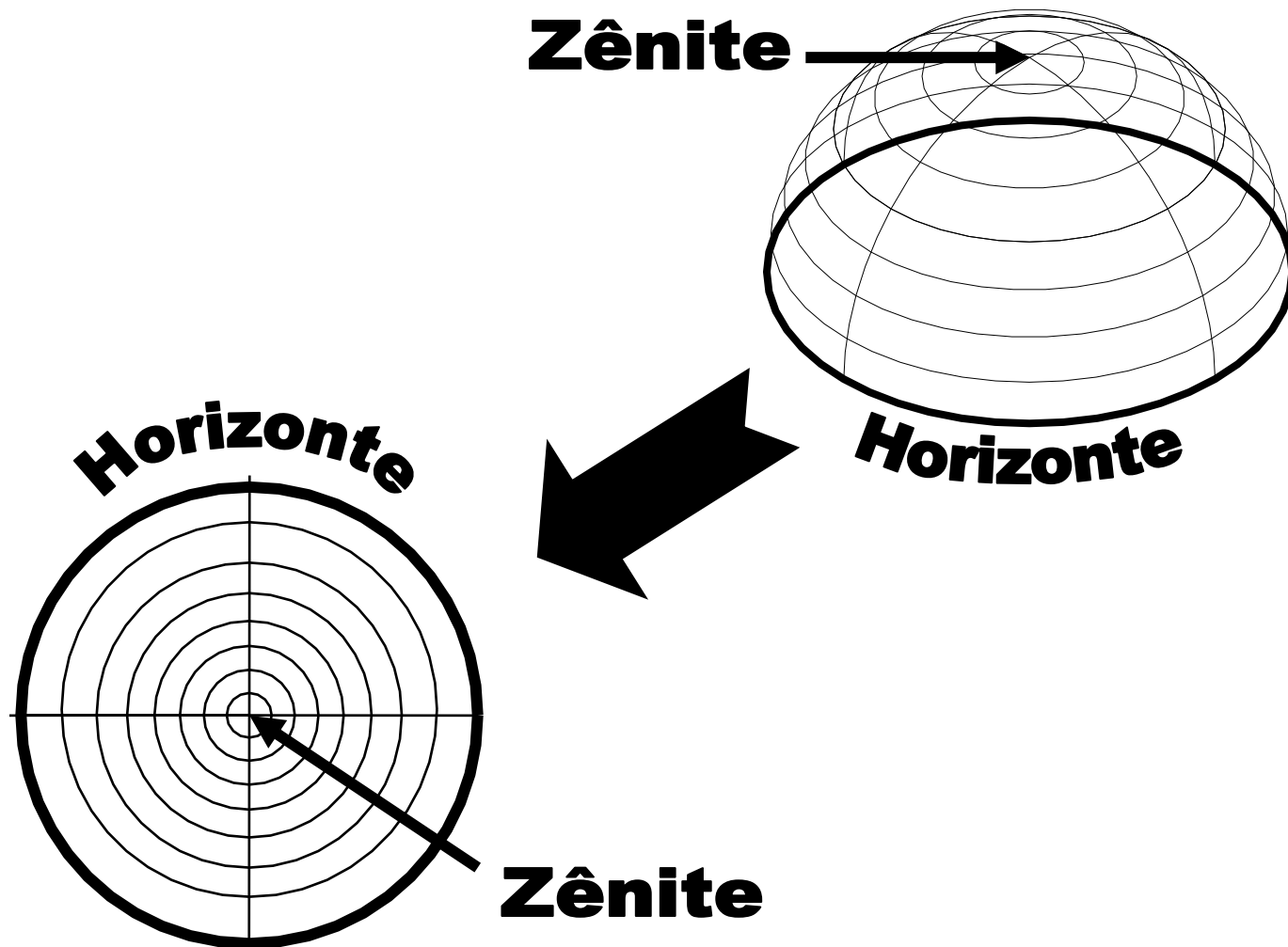
AUT 272

LUZ, ARQUITETURA E CONFORTO

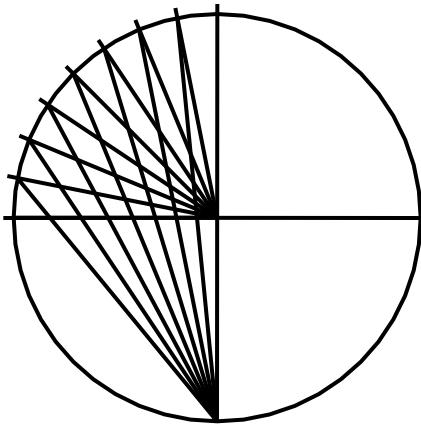
2º semestre de 2017

2a AULA

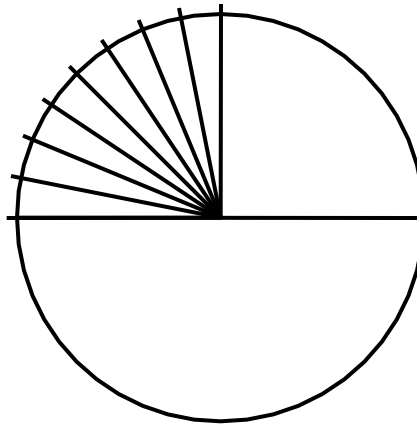
CARTA SOLAR



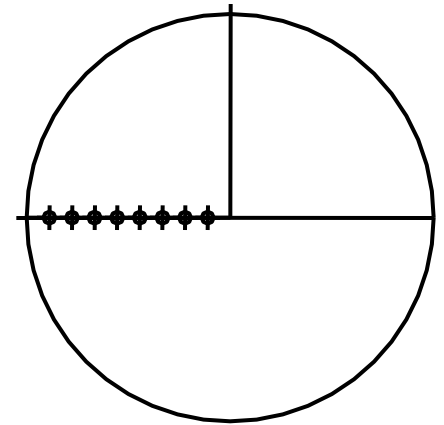
projeção estereográfica



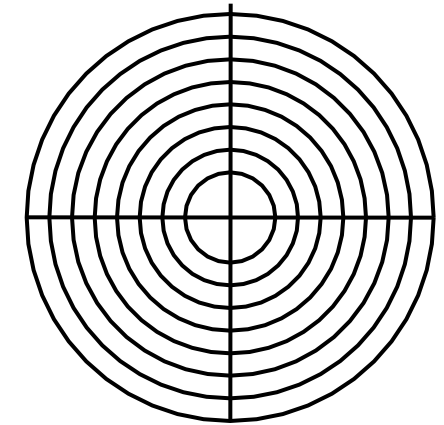
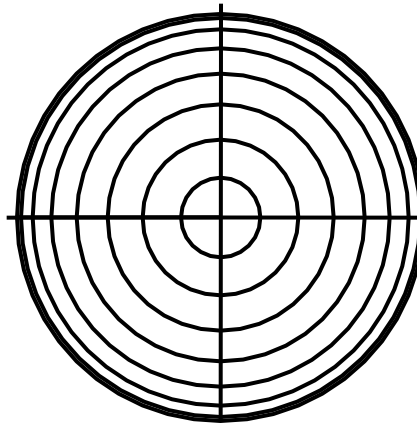
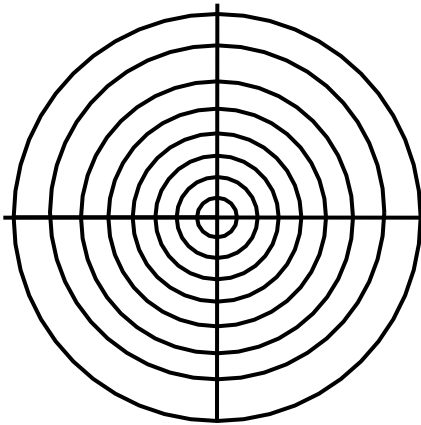
Estereográfica



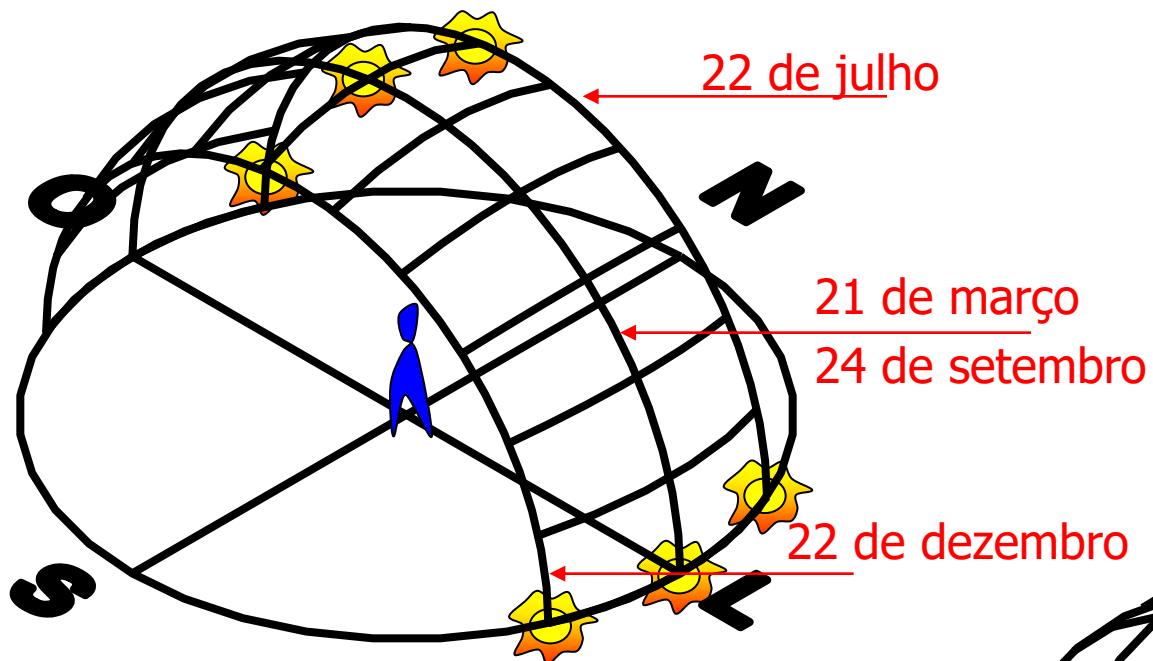
Ortográfica



Equidistante

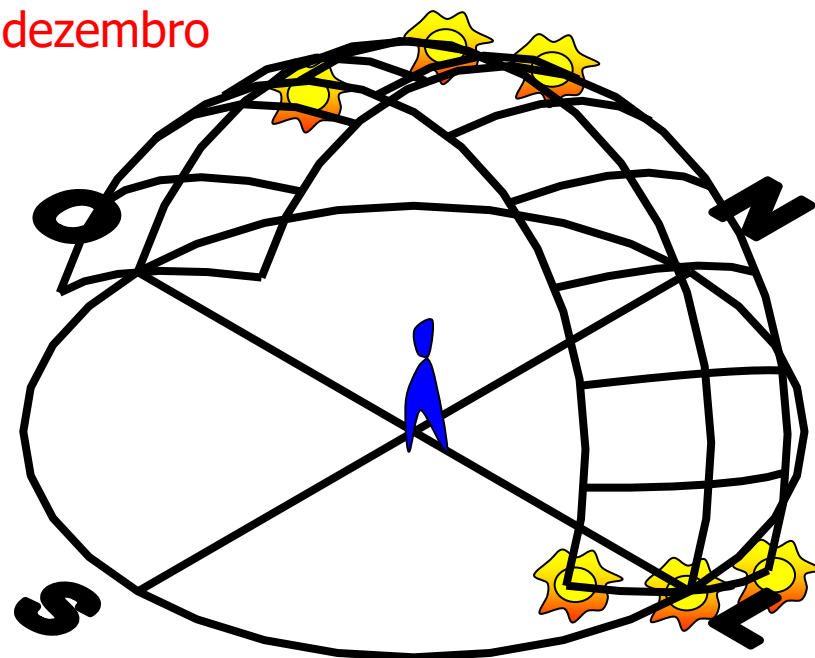


projeção estereográfica

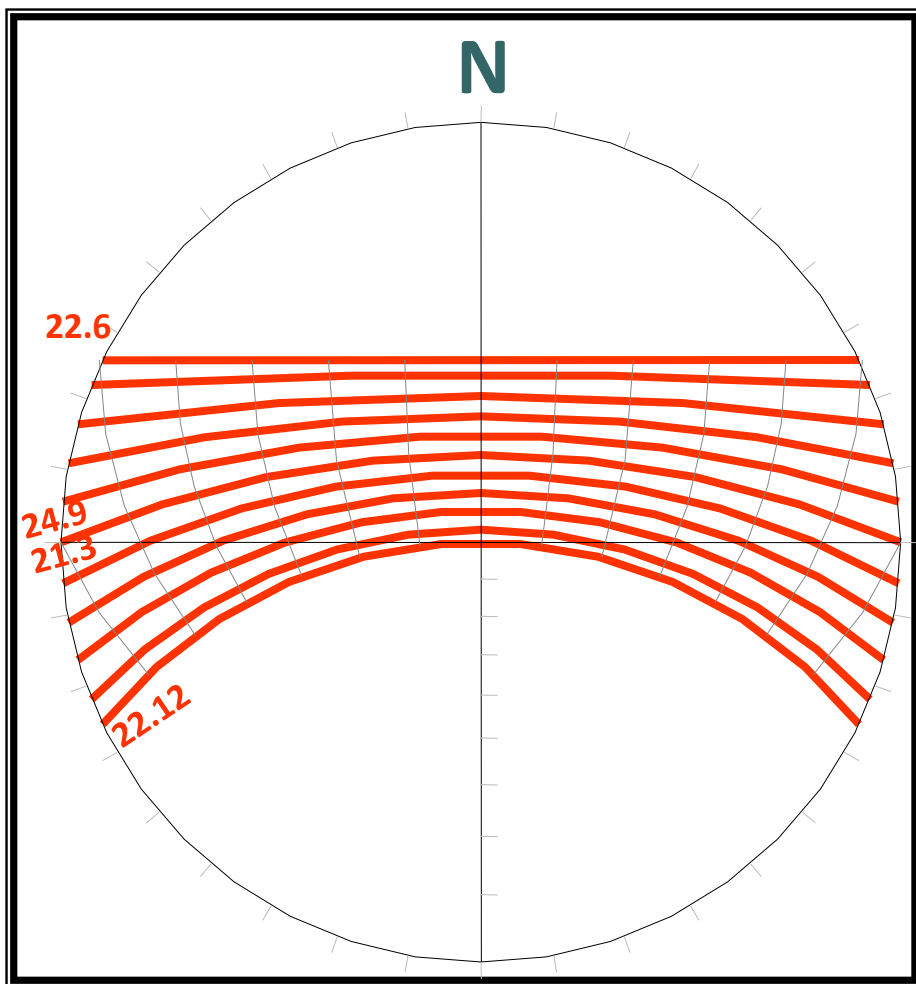


Equador
Latitude 0°

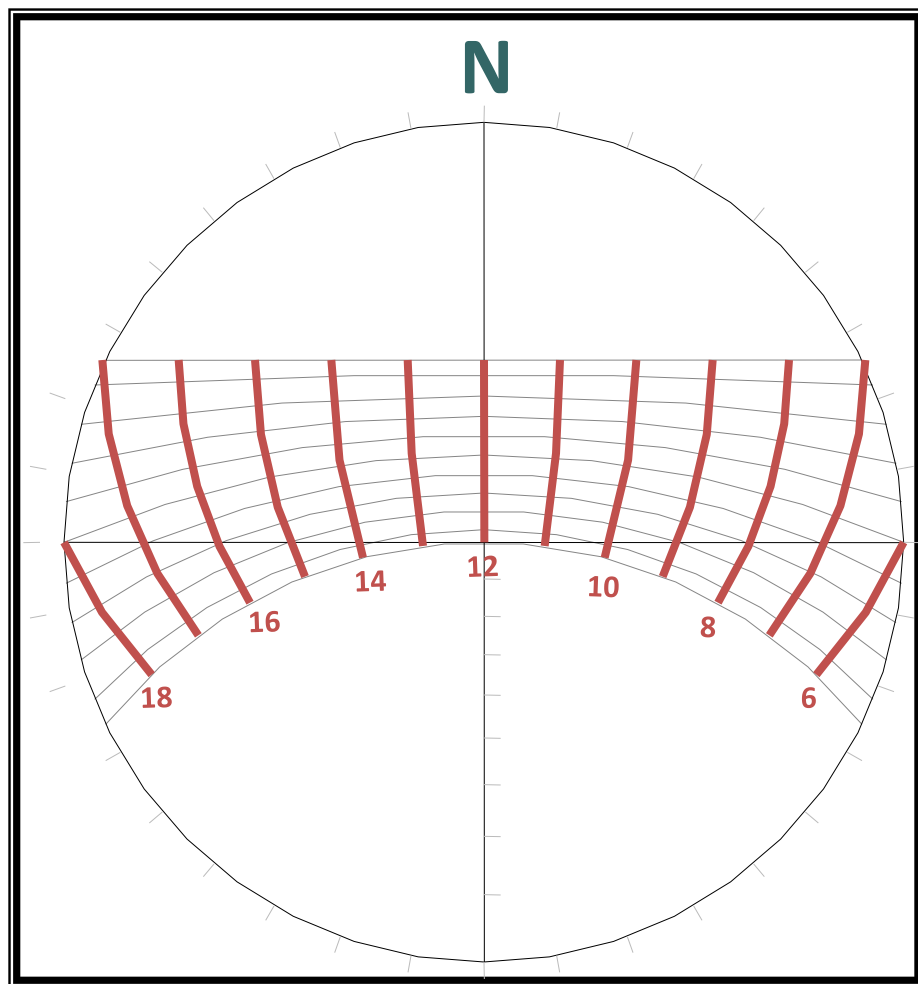
São Paulo
Latitude 23°30'



a carta solar

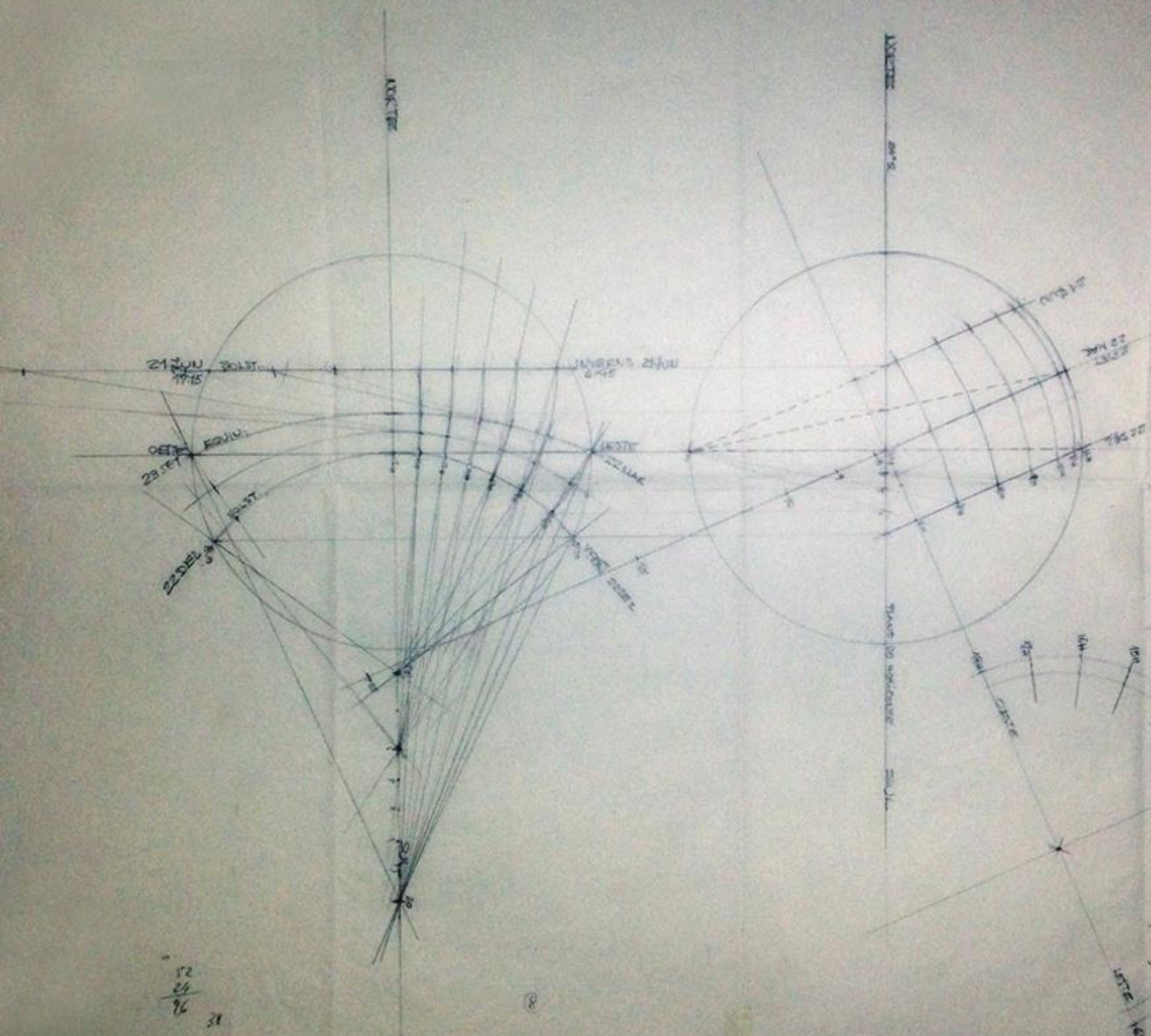
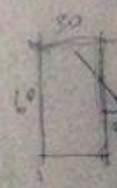
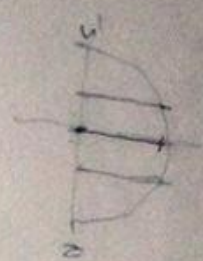


MESES E DIAS

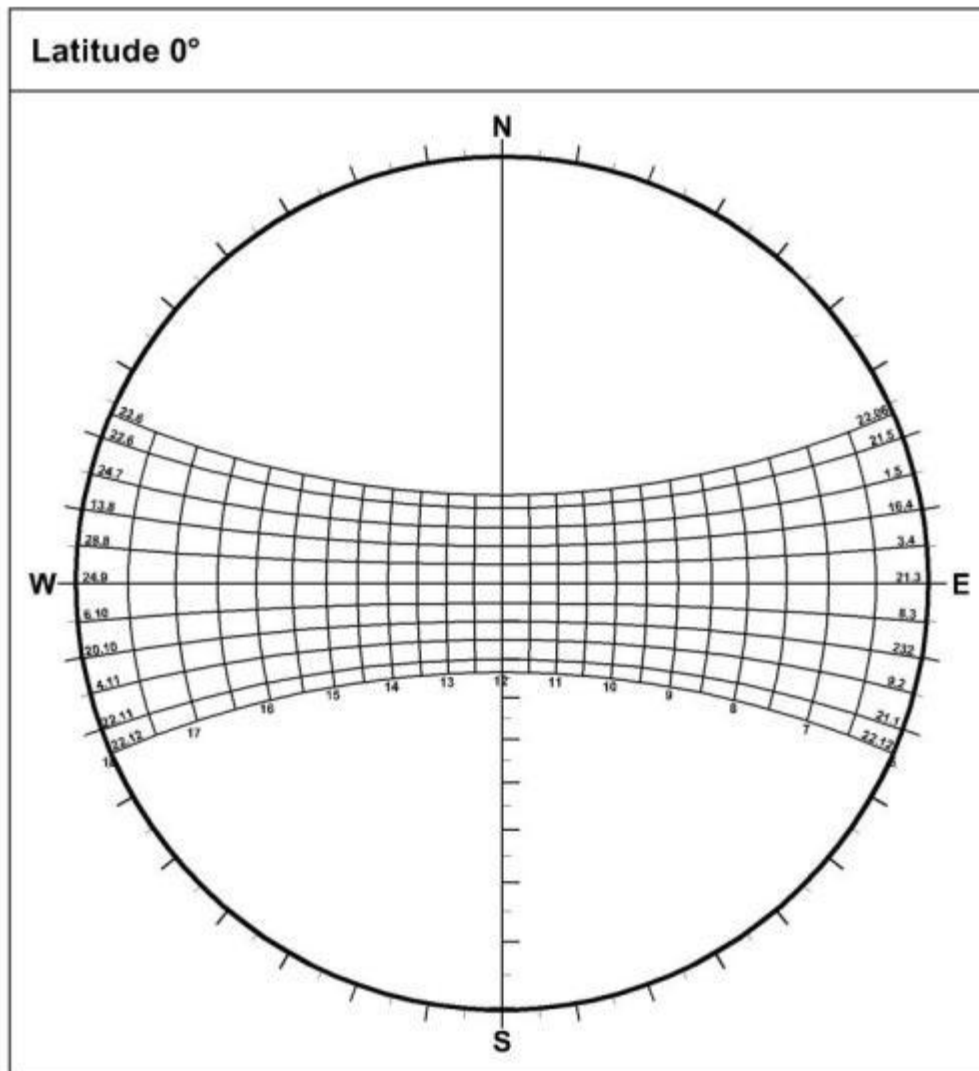


HORAS DO DIA

a carta solar

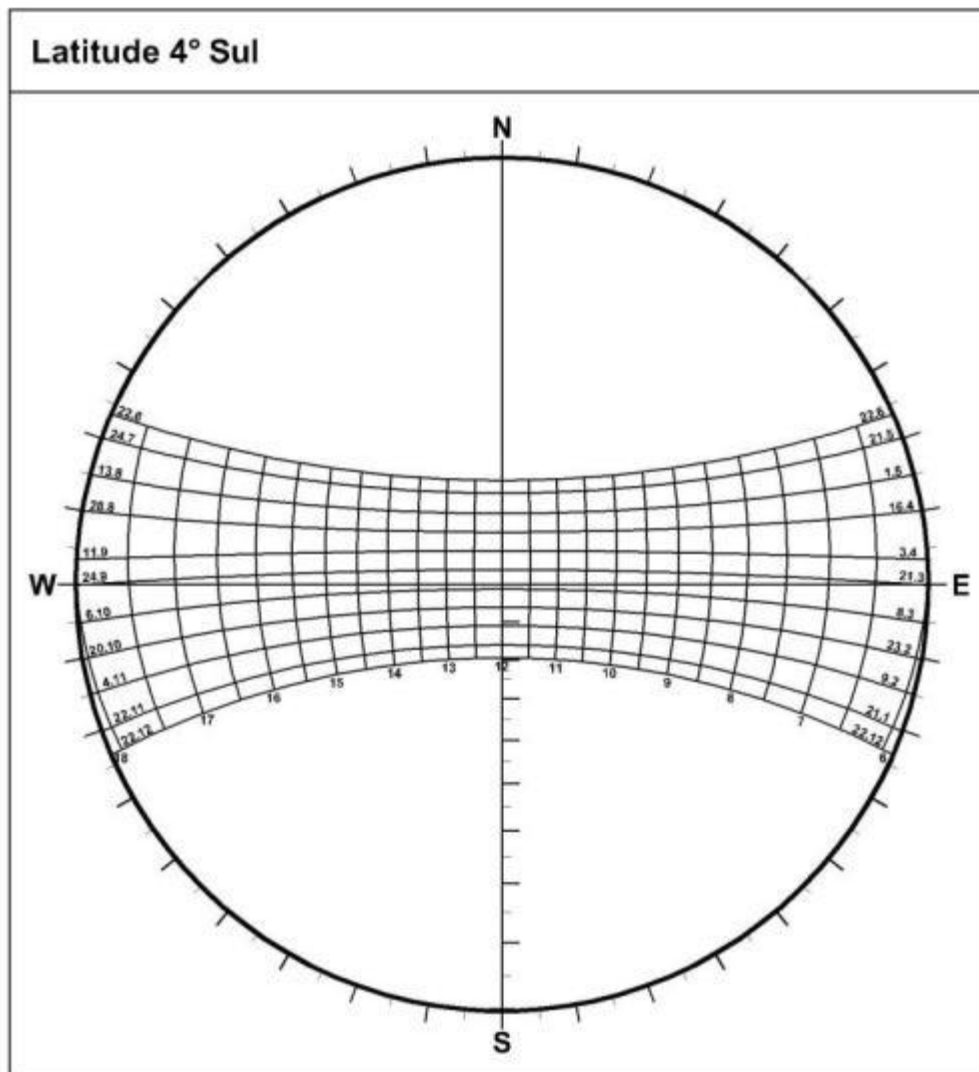


$\frac{12}{24}$
 $\frac{24}{96}$
 31

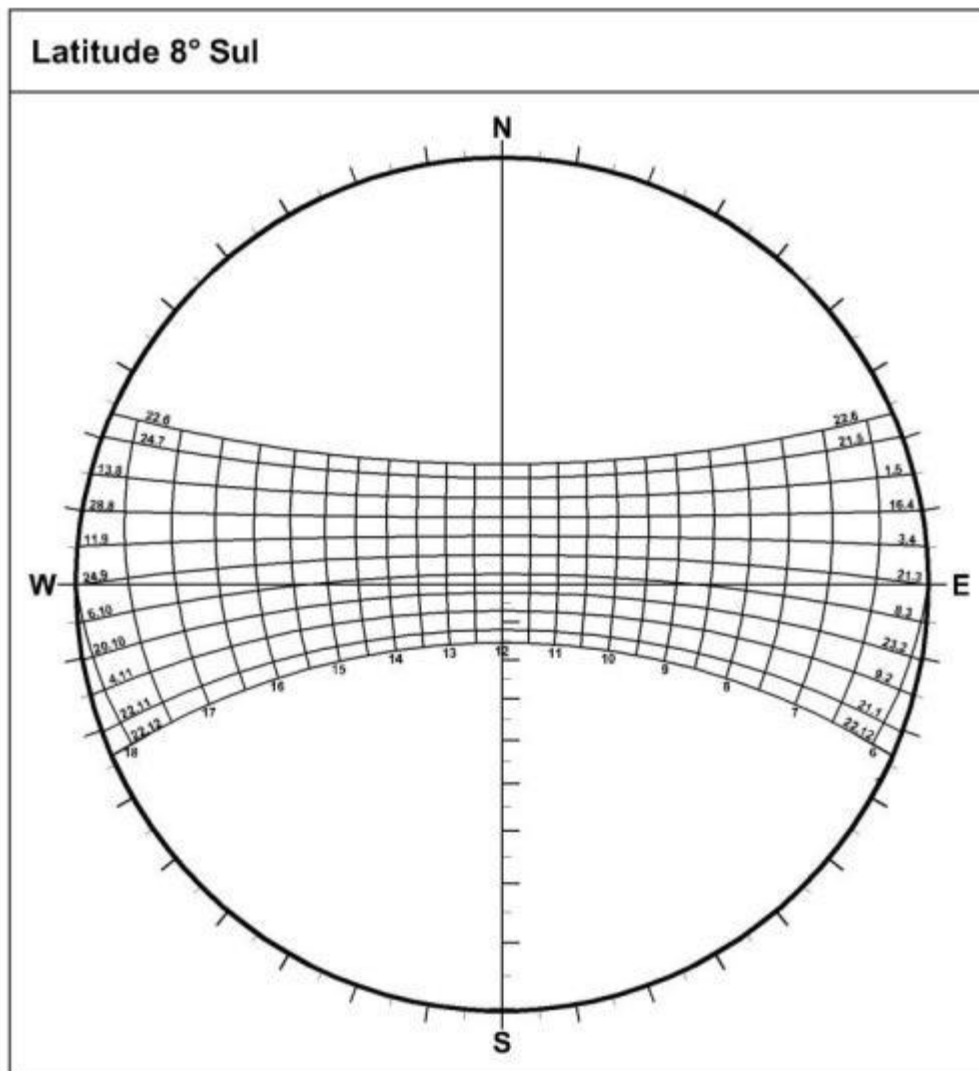


cartas solares : 0°

O ESPELHAMENTO ENTRE HEMISFÉRIO NORTE E SUL

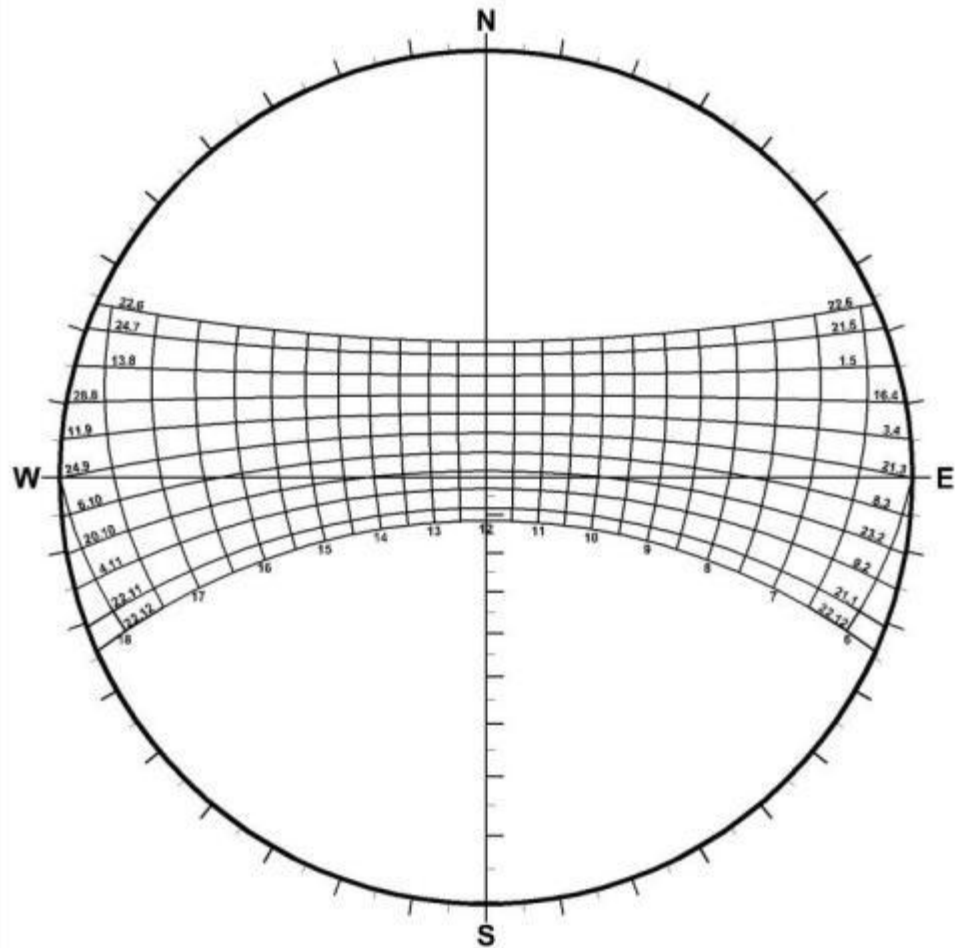


cartas solares : 04° S

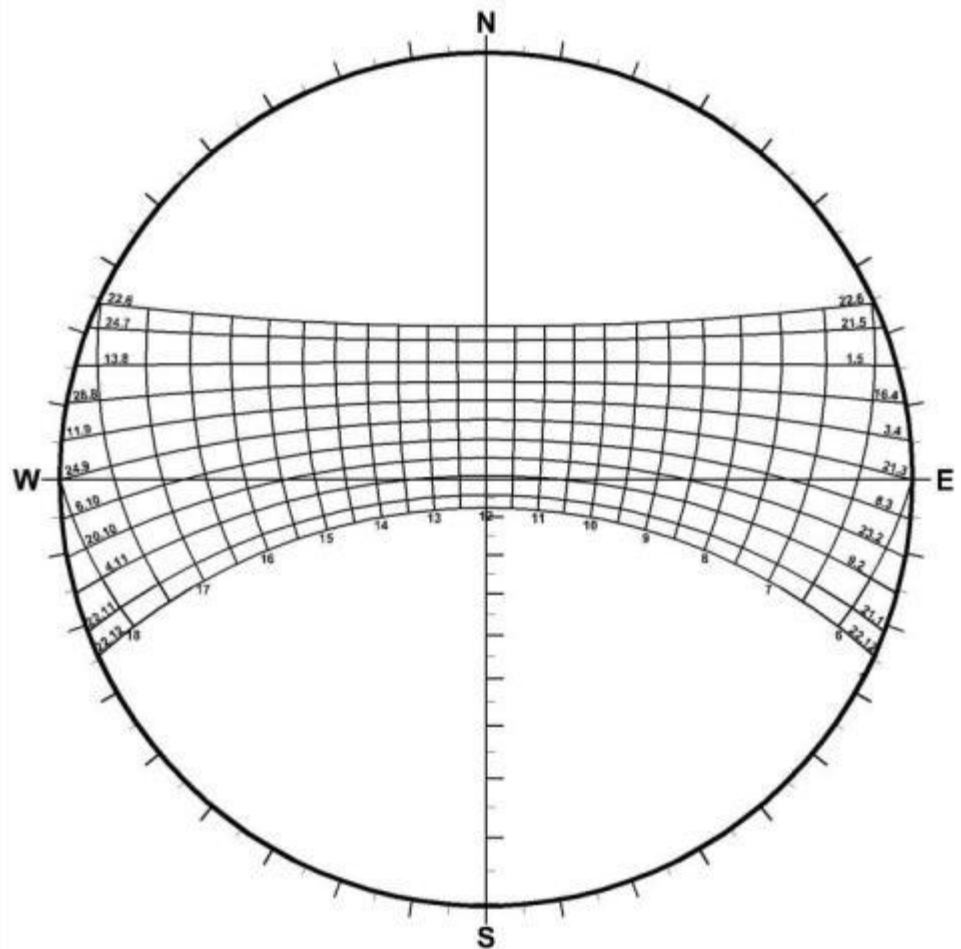


cartas solares : 08° S

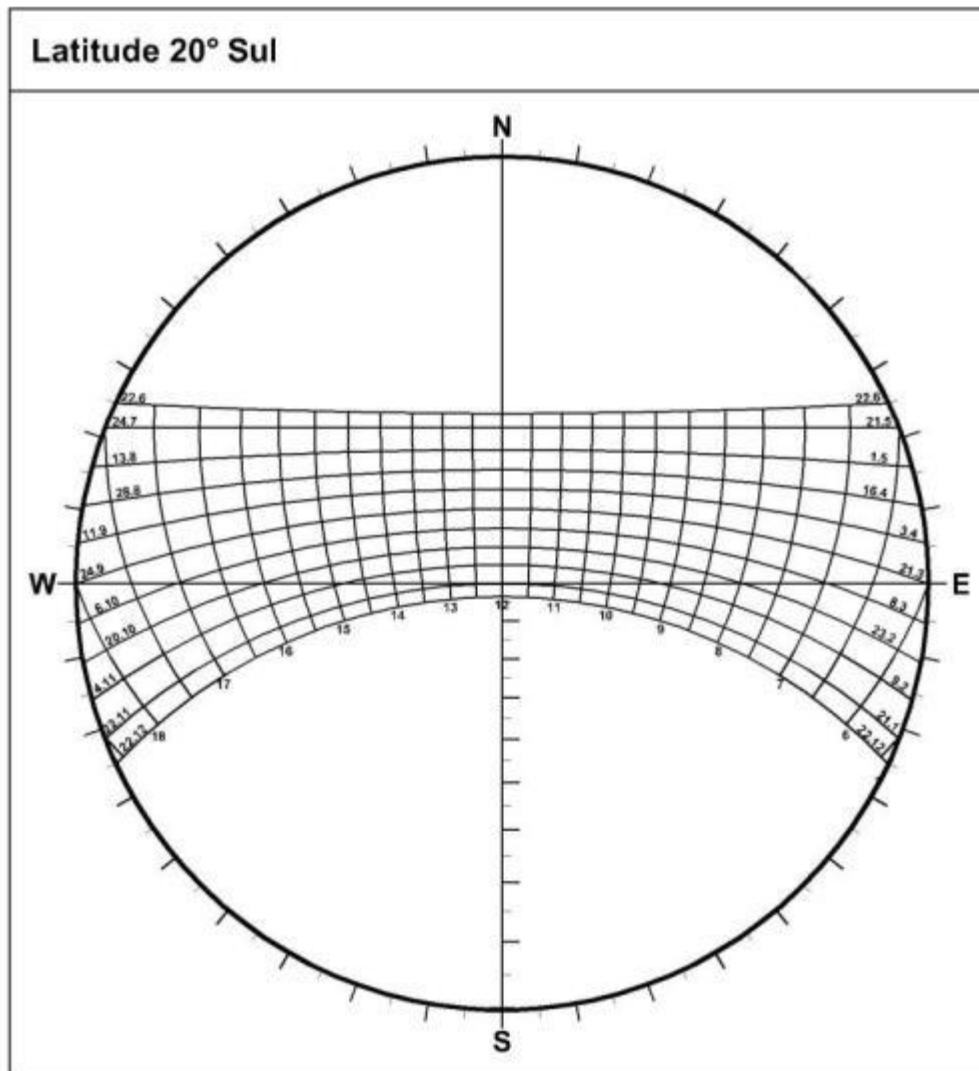
Latitude 12° Sul



Latitude 16° Sul

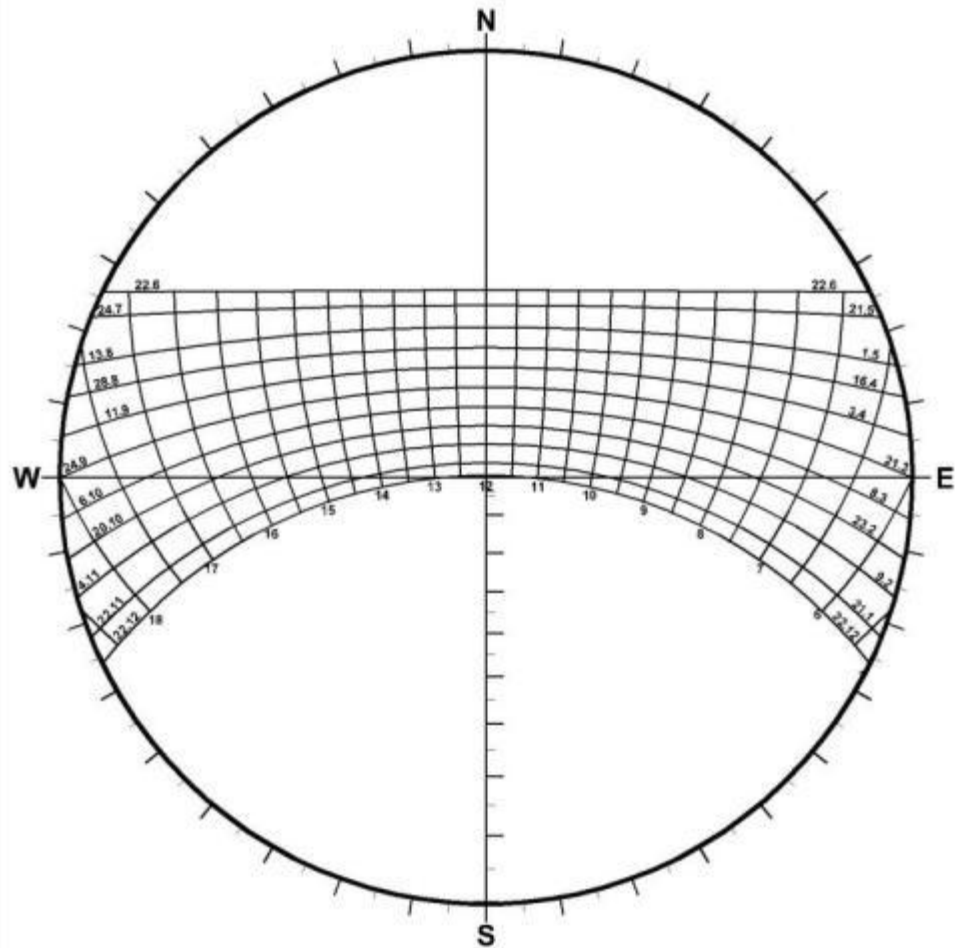


cartas solares : 16° S



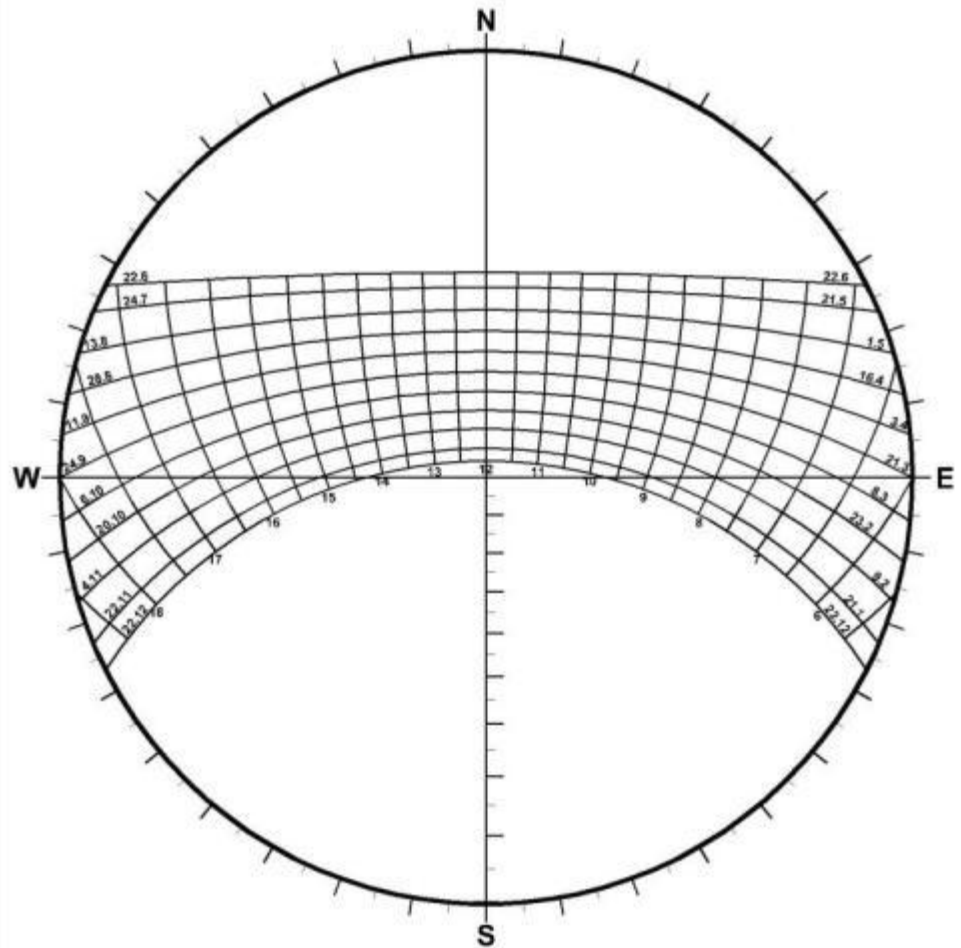
cartas solares : 20° S

Latitude 24° Sul

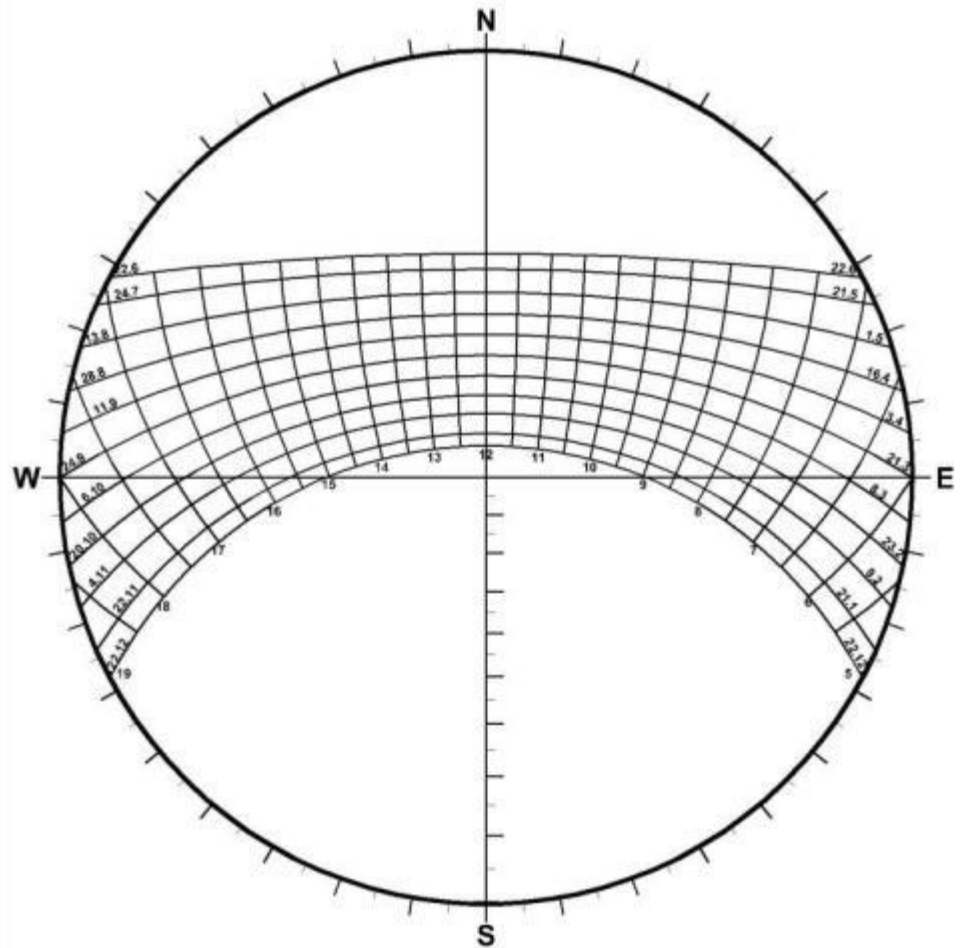


cartas solares : 24° S

Latitude 28° Sul

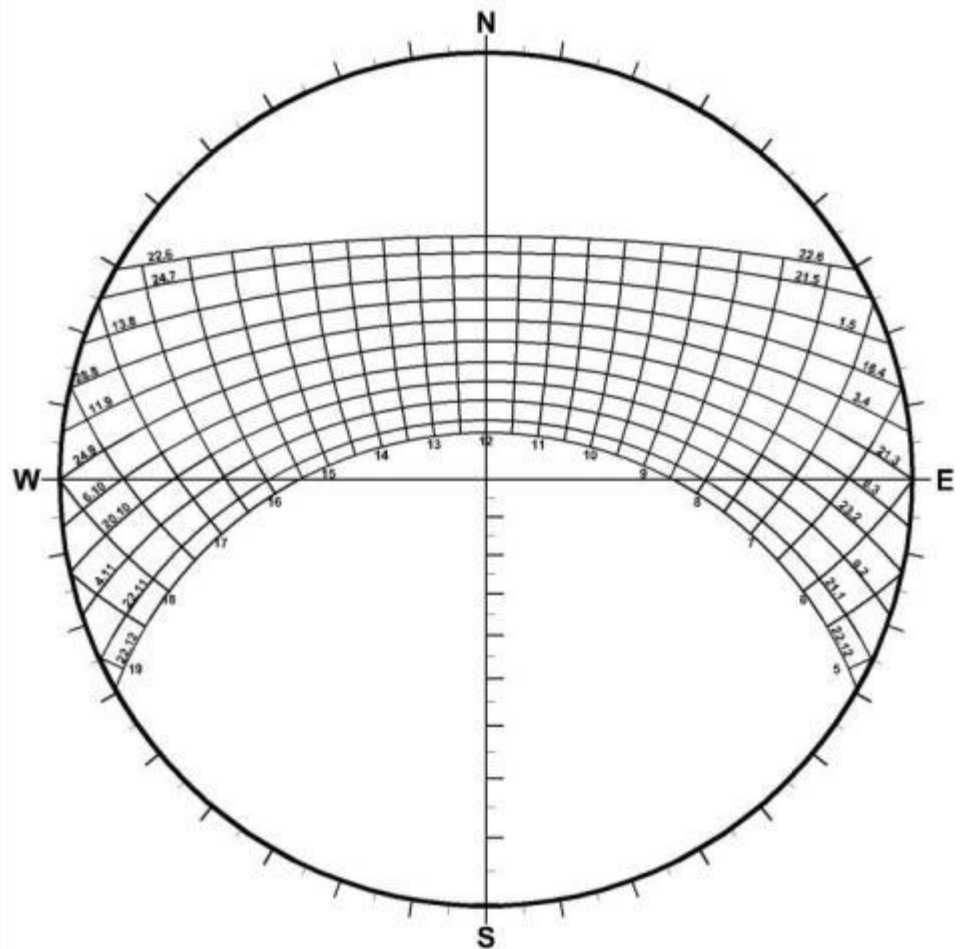


Latitude 32° Sul



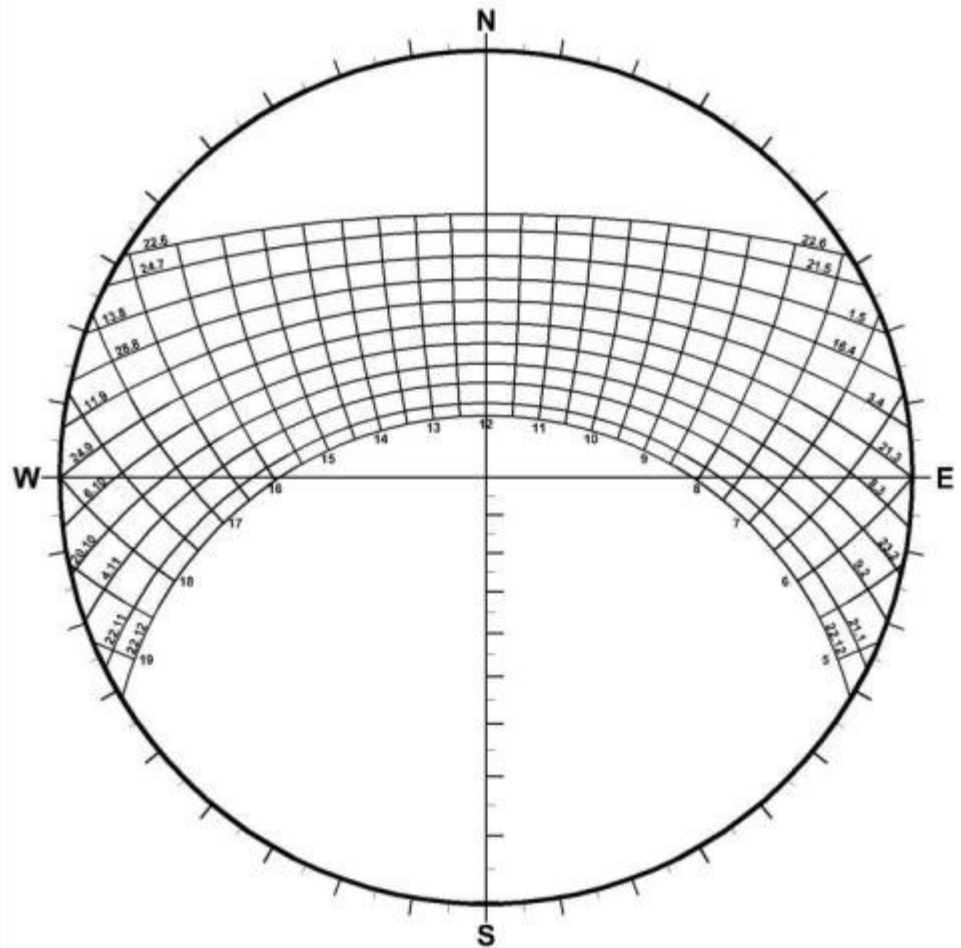
cartas solares : 32° S

Latitude 36° Sul



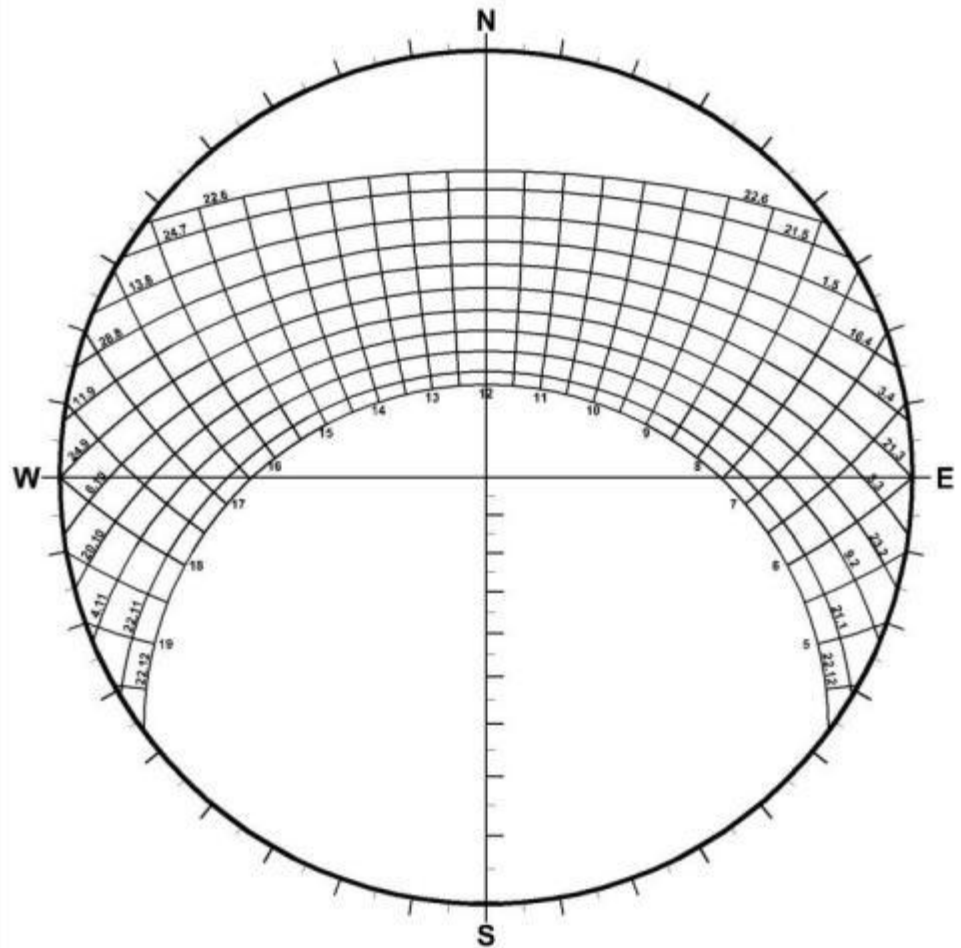
cartas solares : 36° S

Latitude 40° Sul



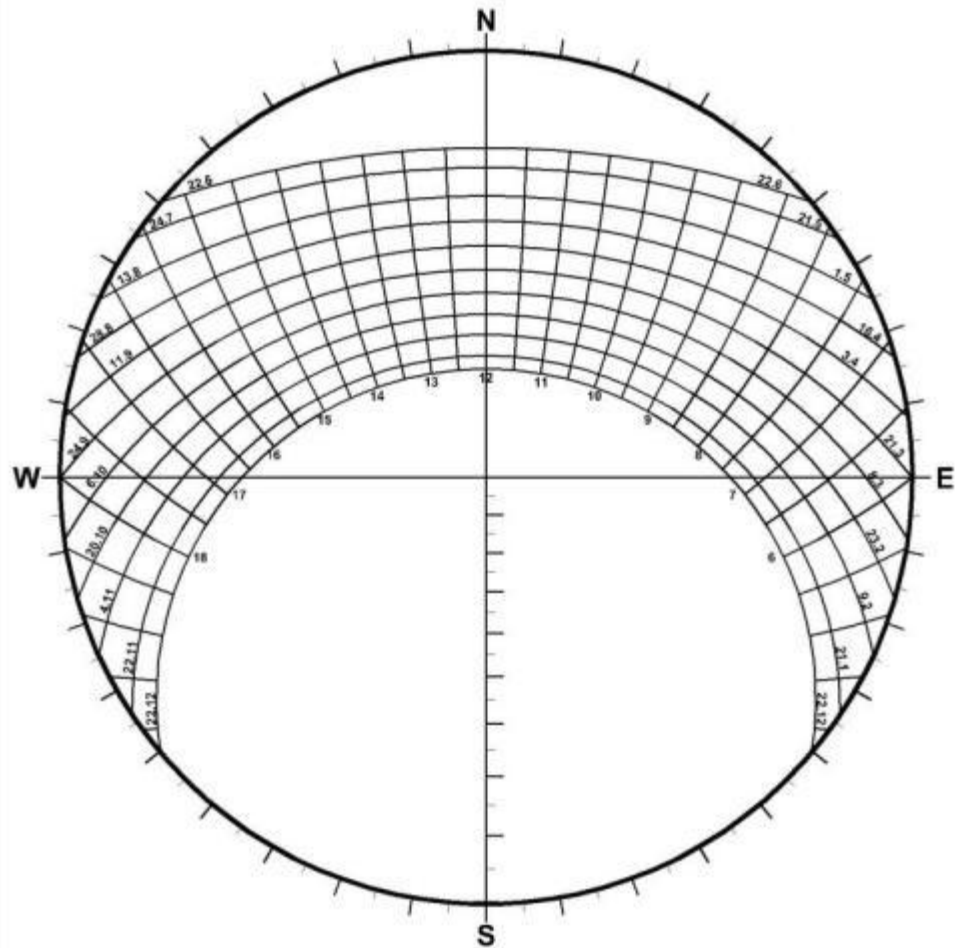
cartas solares : 40° S

Latitude 48° Sul



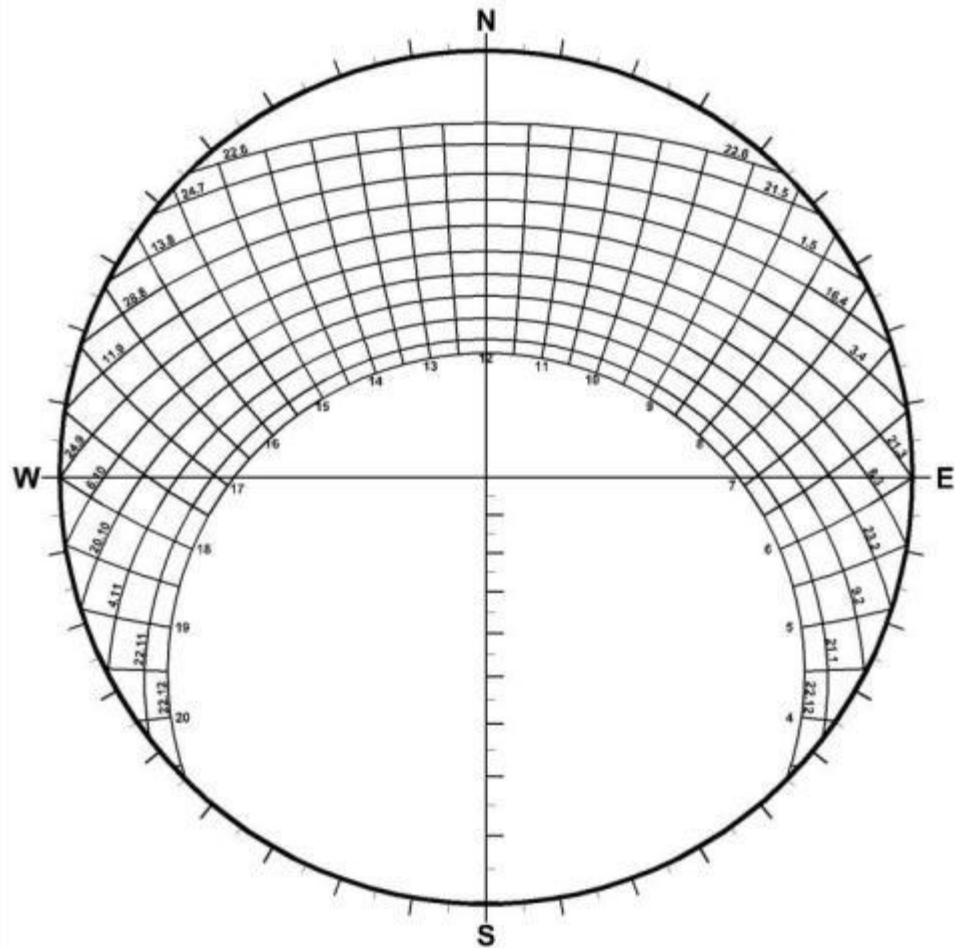
cartas solares : 48° S

Latitude 52° Sul



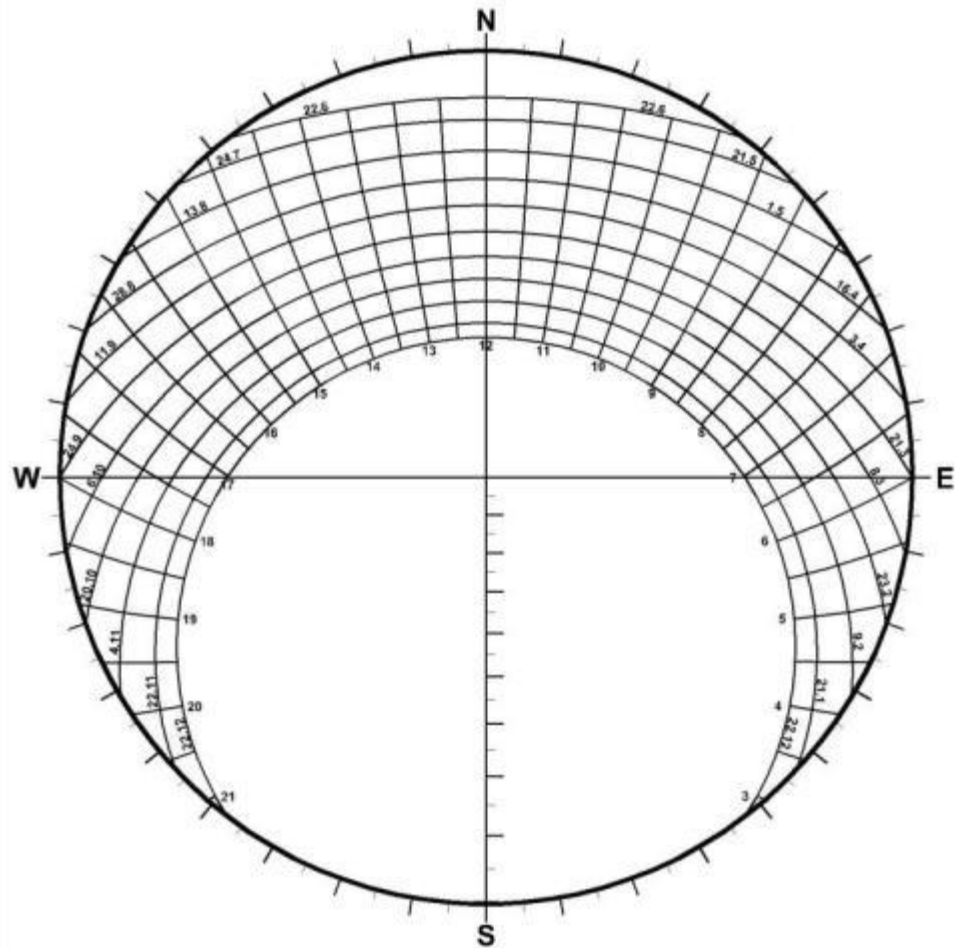
cartas solares : 52° S

Latitude 56° Sul



cartas solares : 56° S

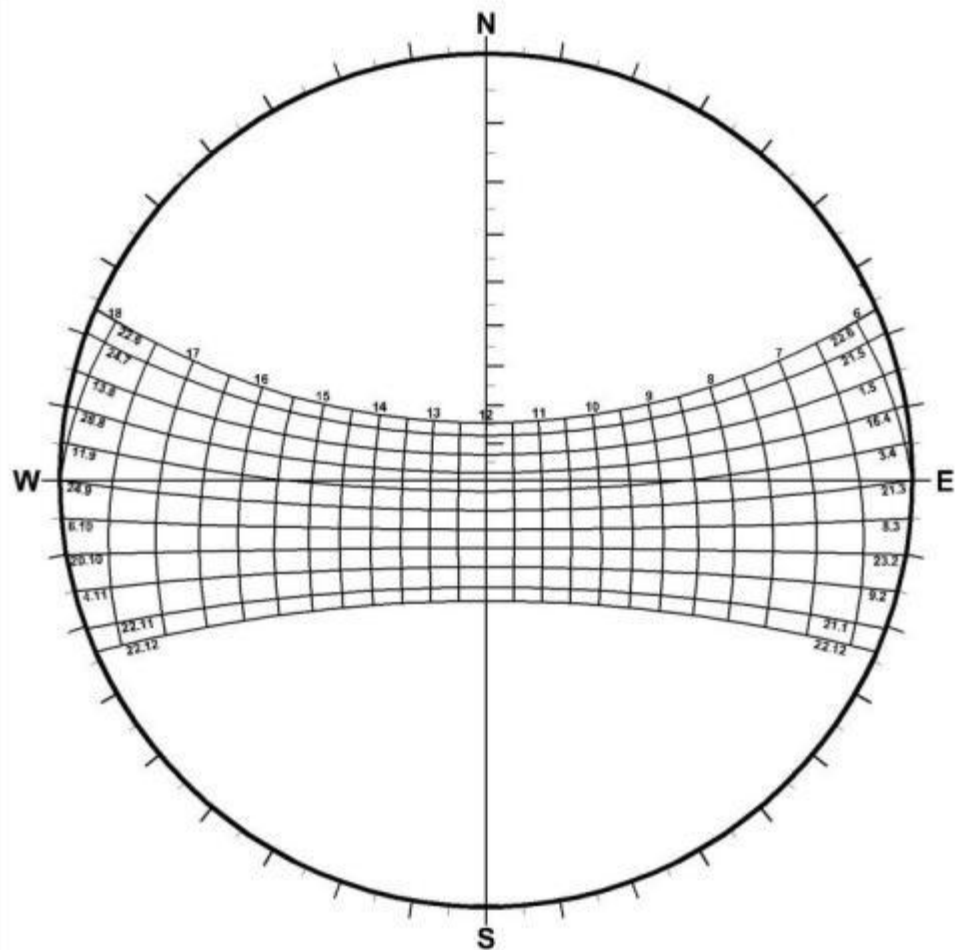
Latitude 60° Sul



cartas solares : 60° S

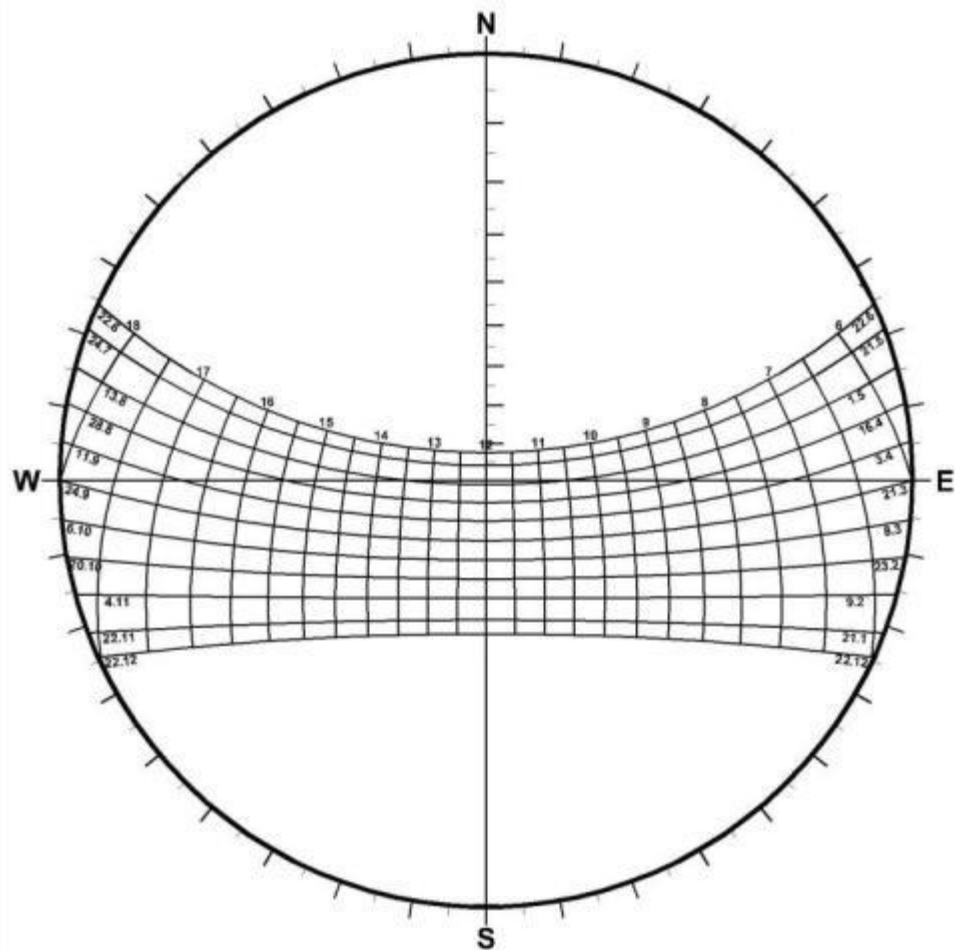
cartas solares : 0°

Latitude 8° Norte



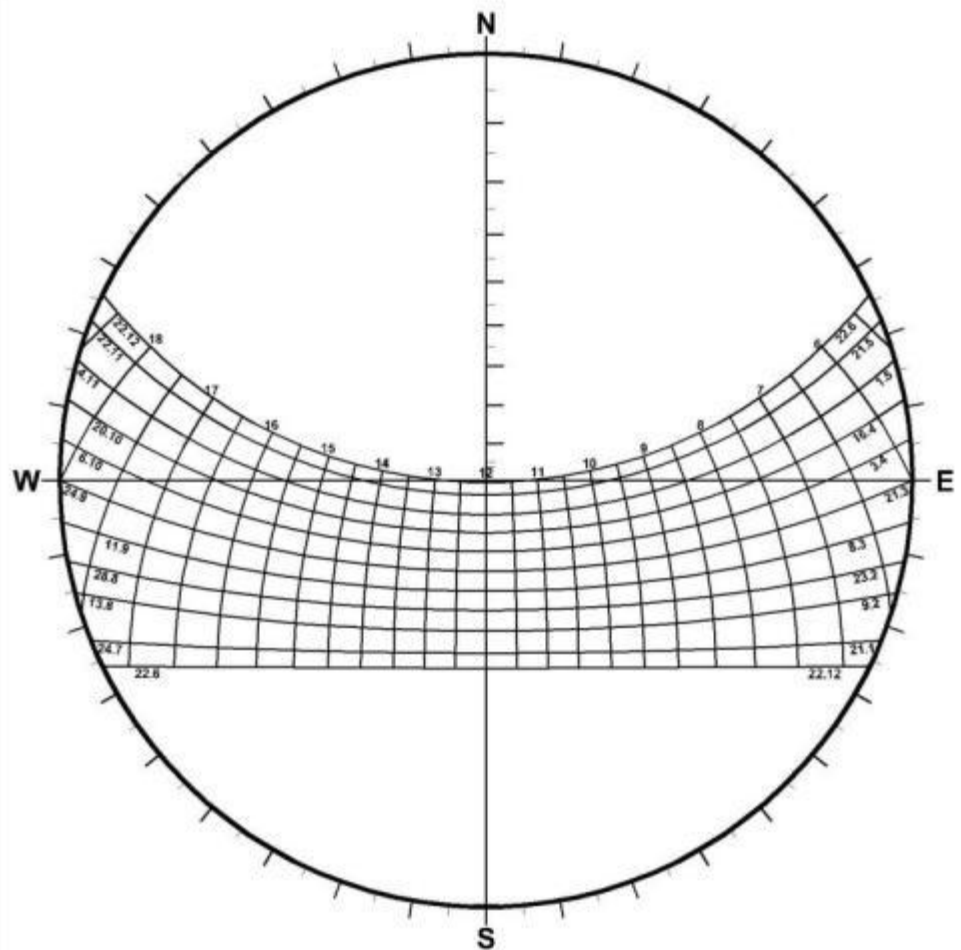
cartas solares : 08° N

Latitude 16° Norte



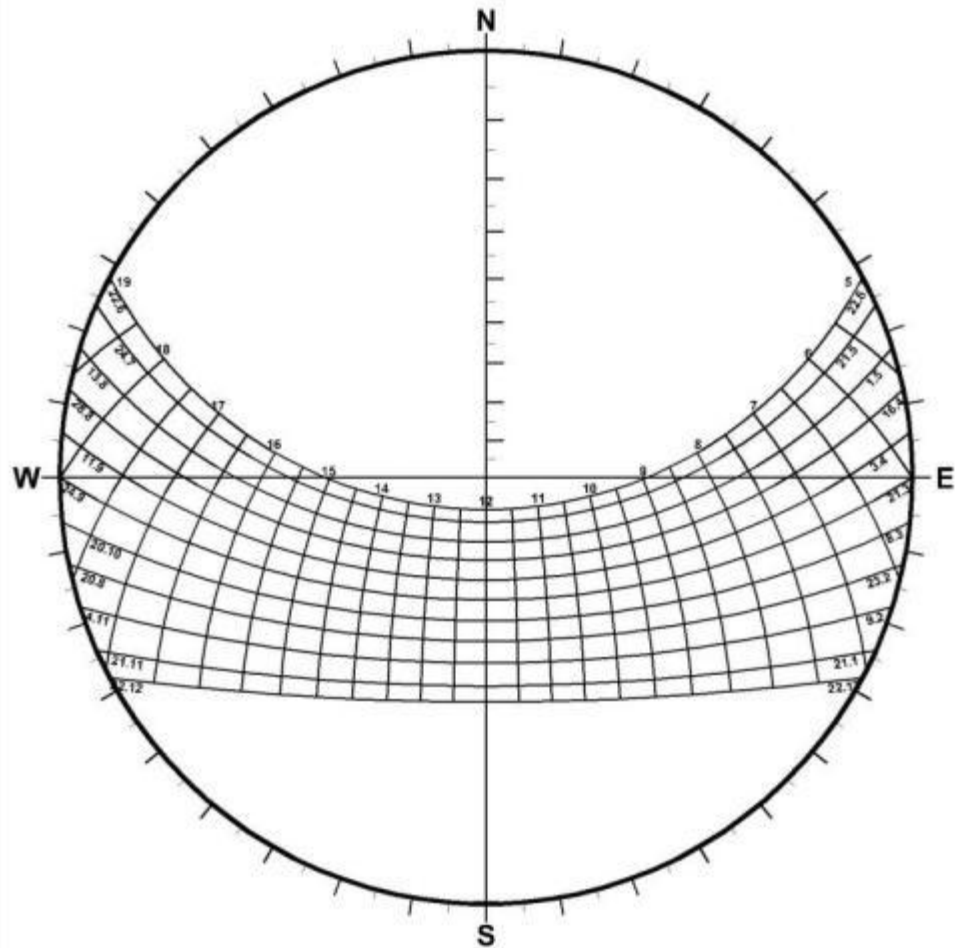
cartas solares : 16° N

Latitude 24° Norte



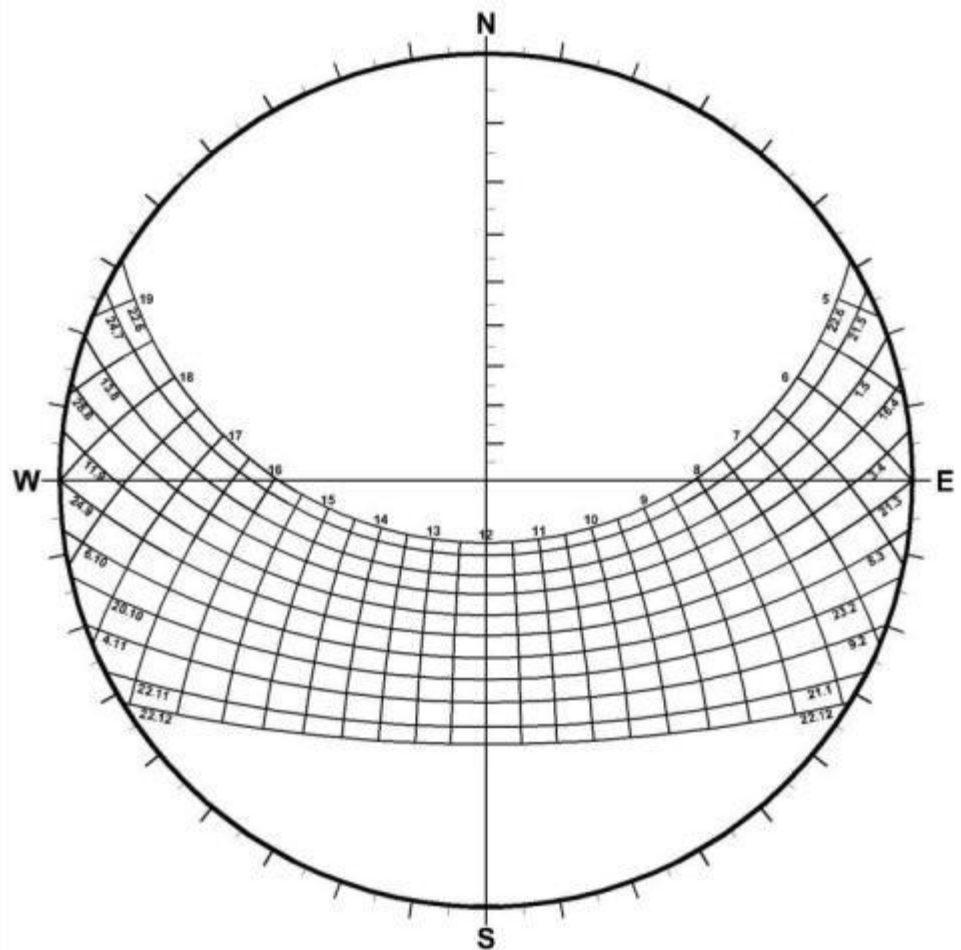
cartas solares : 24° N

Latitude 32° Norte

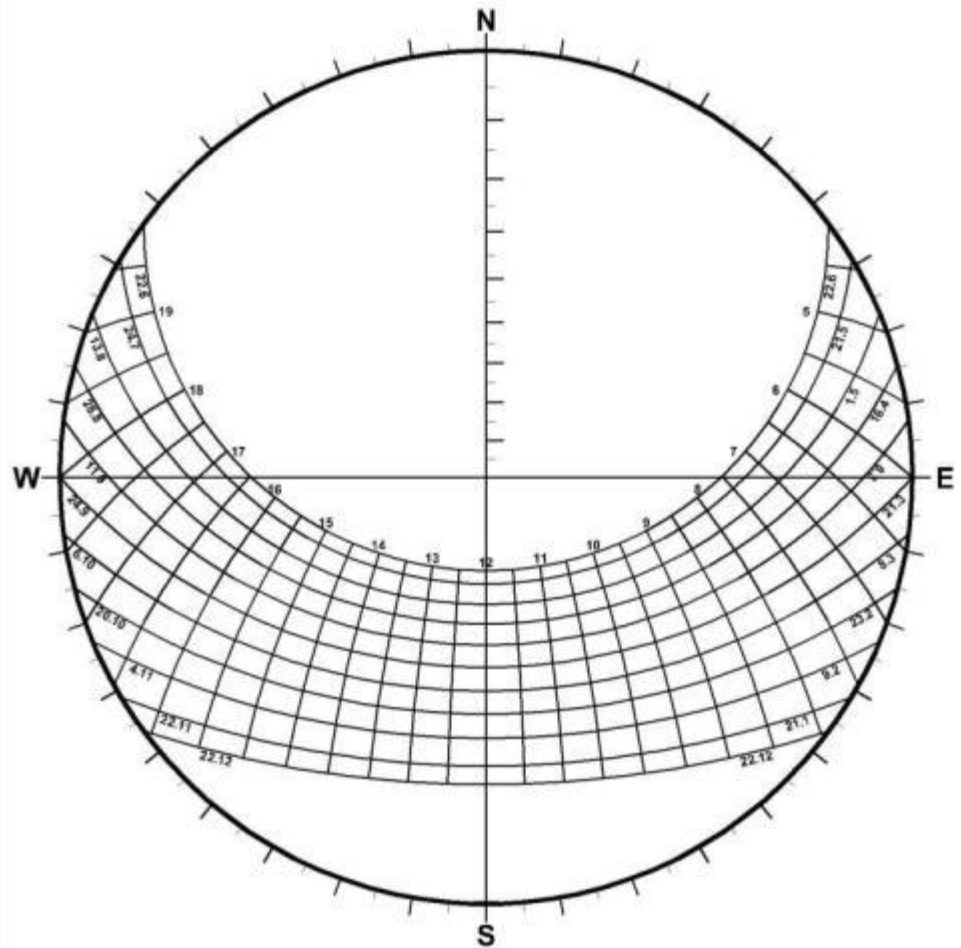


cartas solares : 32° N

Latitude 40° Norte

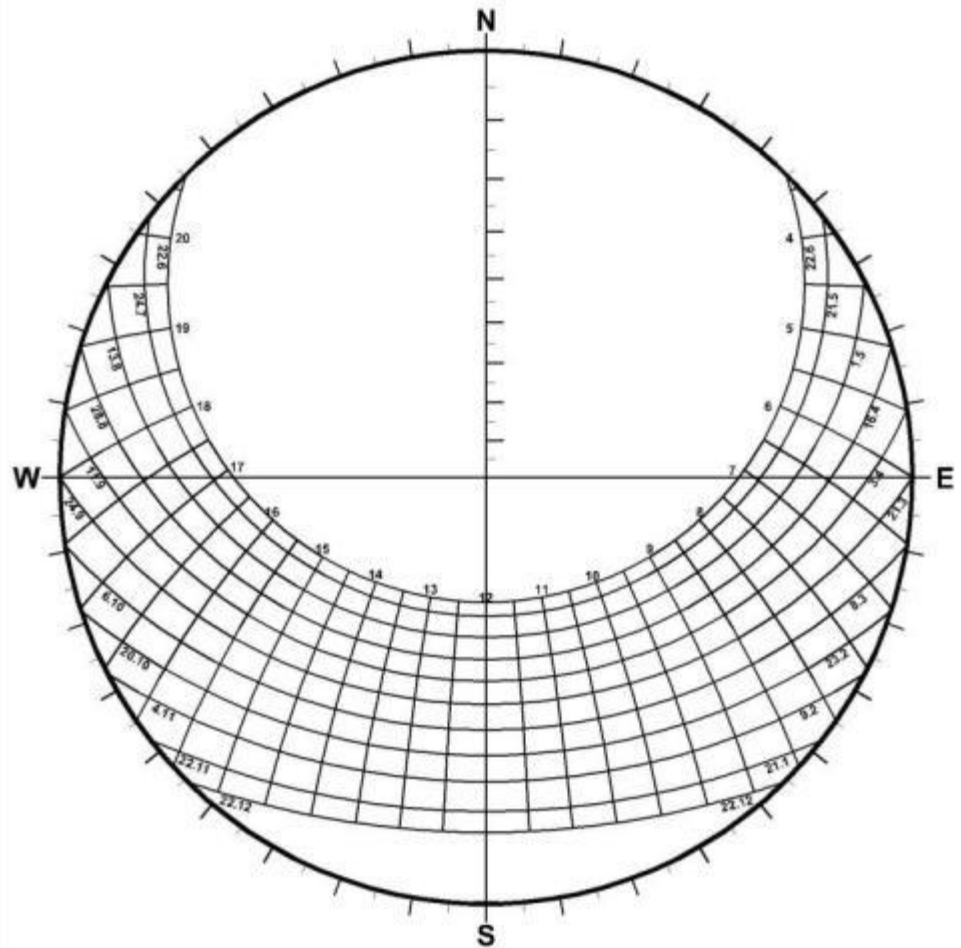


Latitude 48° Norte



cartas solares : 48° N

Latitude 56° Norte

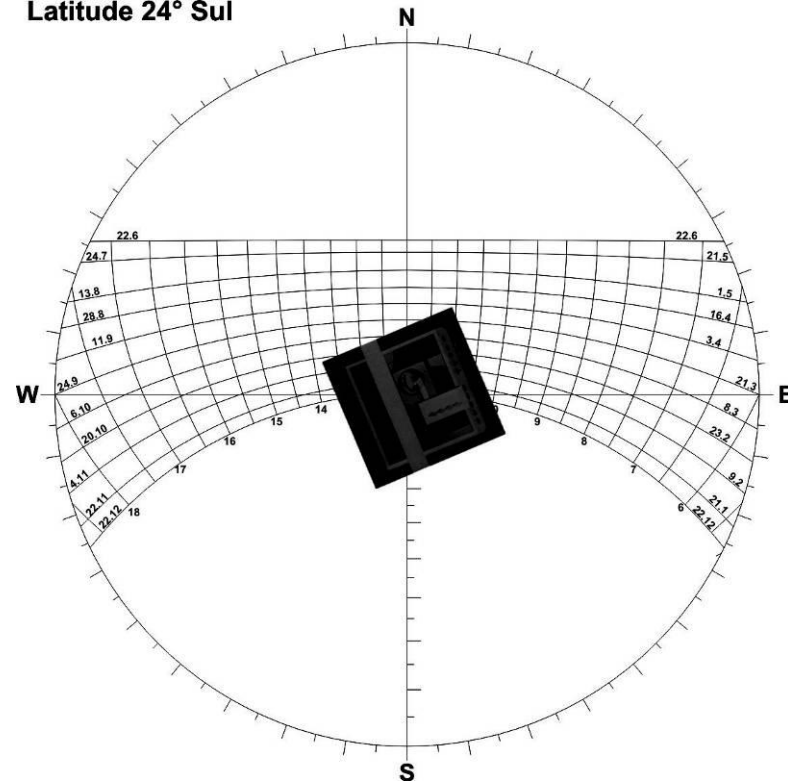


cartas solares : 56° N



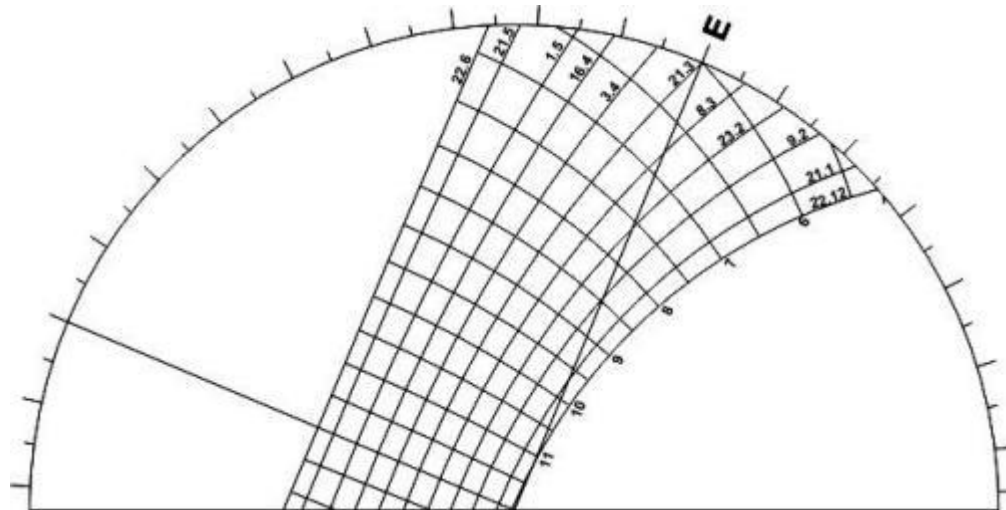
Latitude 24° Sul

Período de insolação

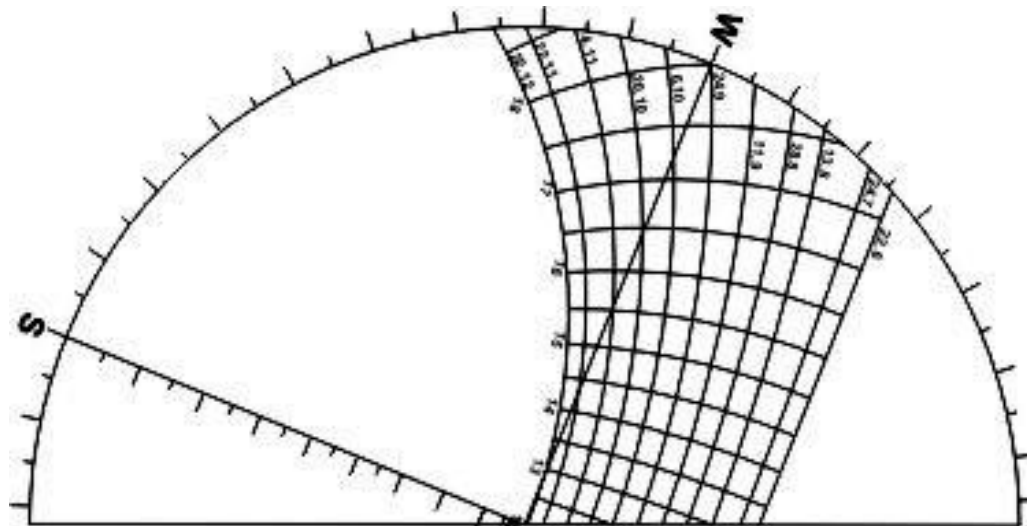


Fachada NE

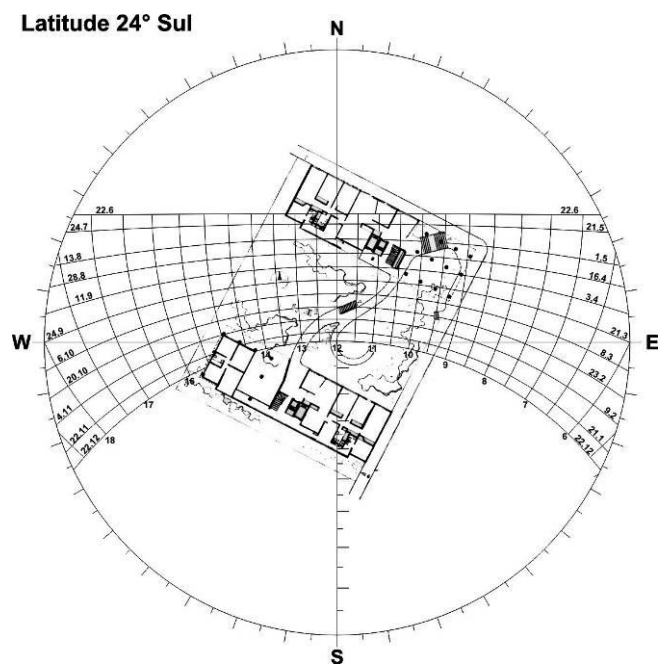
Av. Paulista

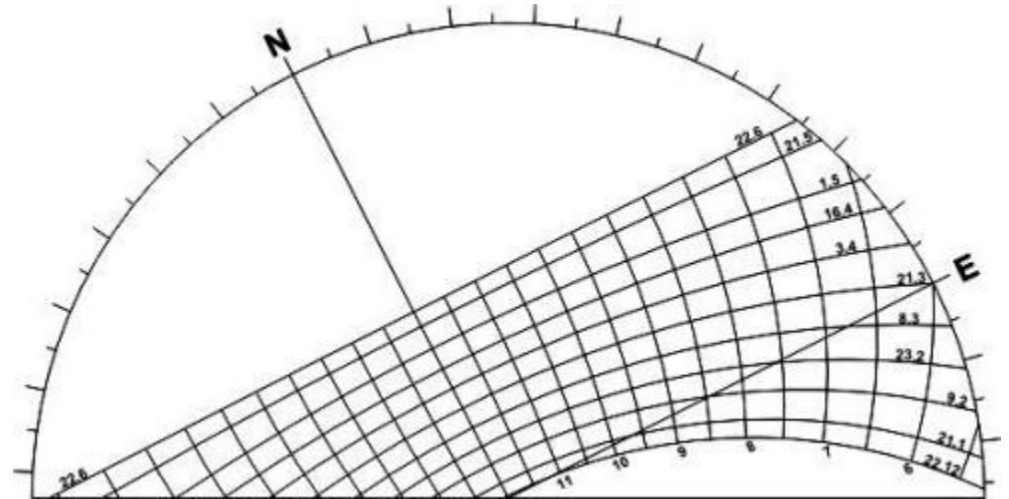


Fachada SO

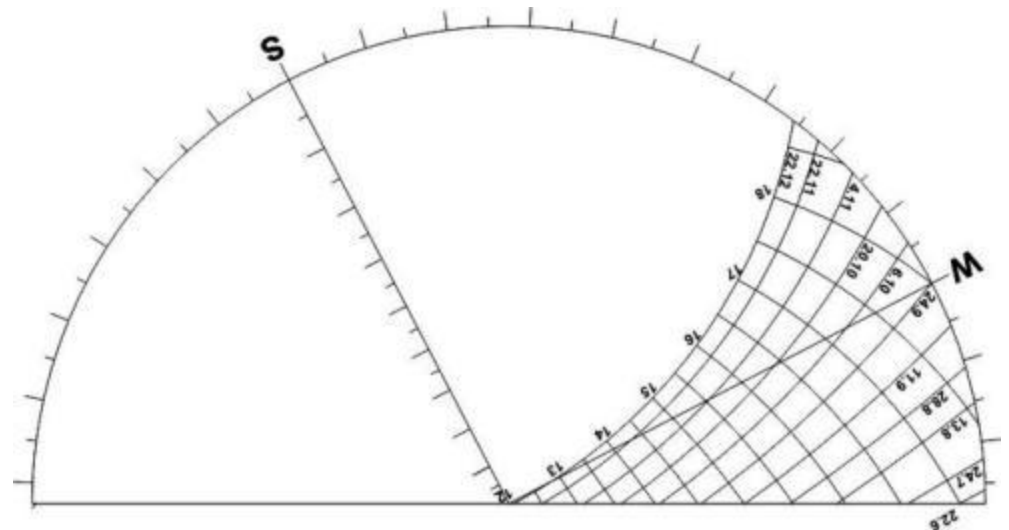


Edifício Louveira

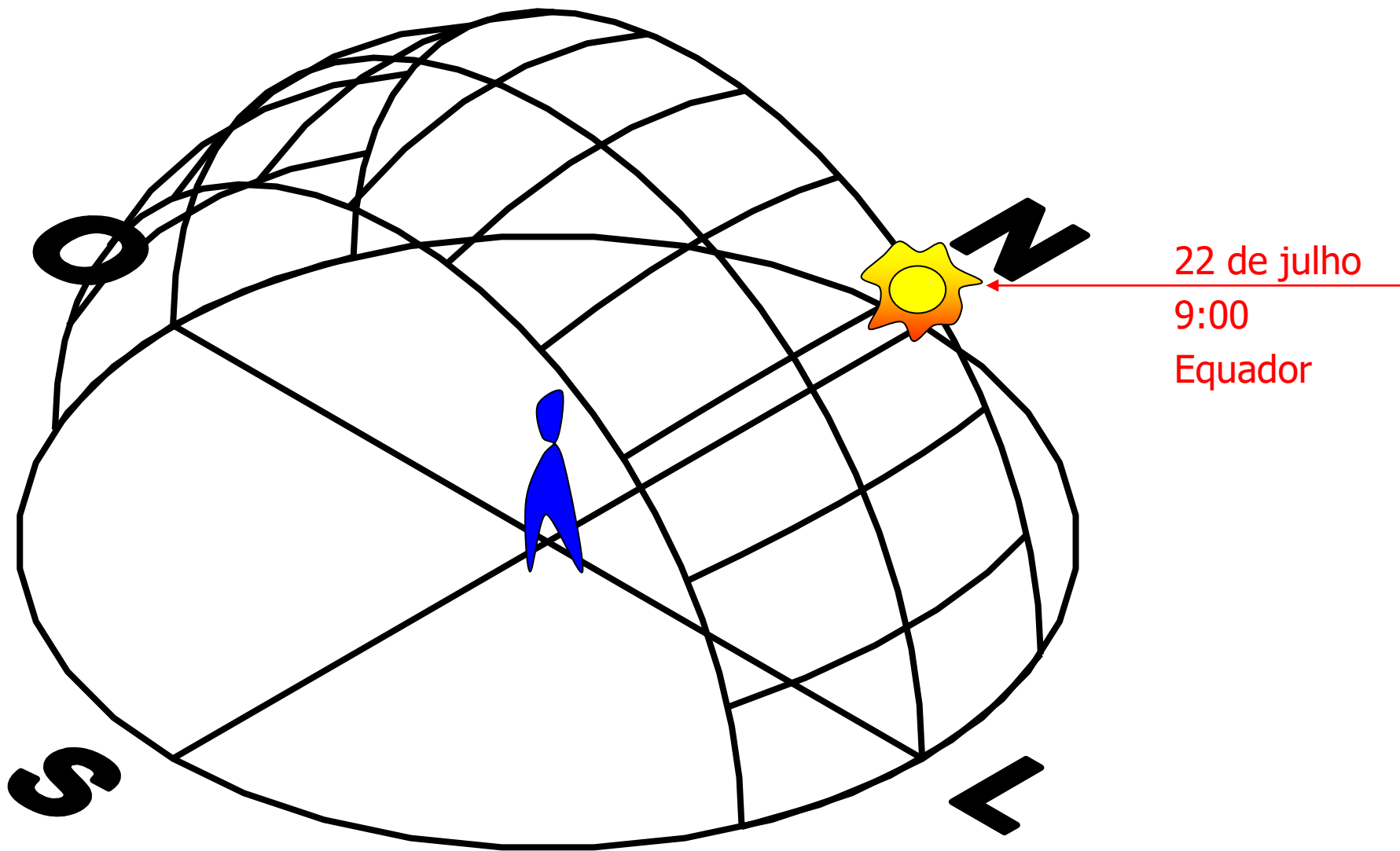




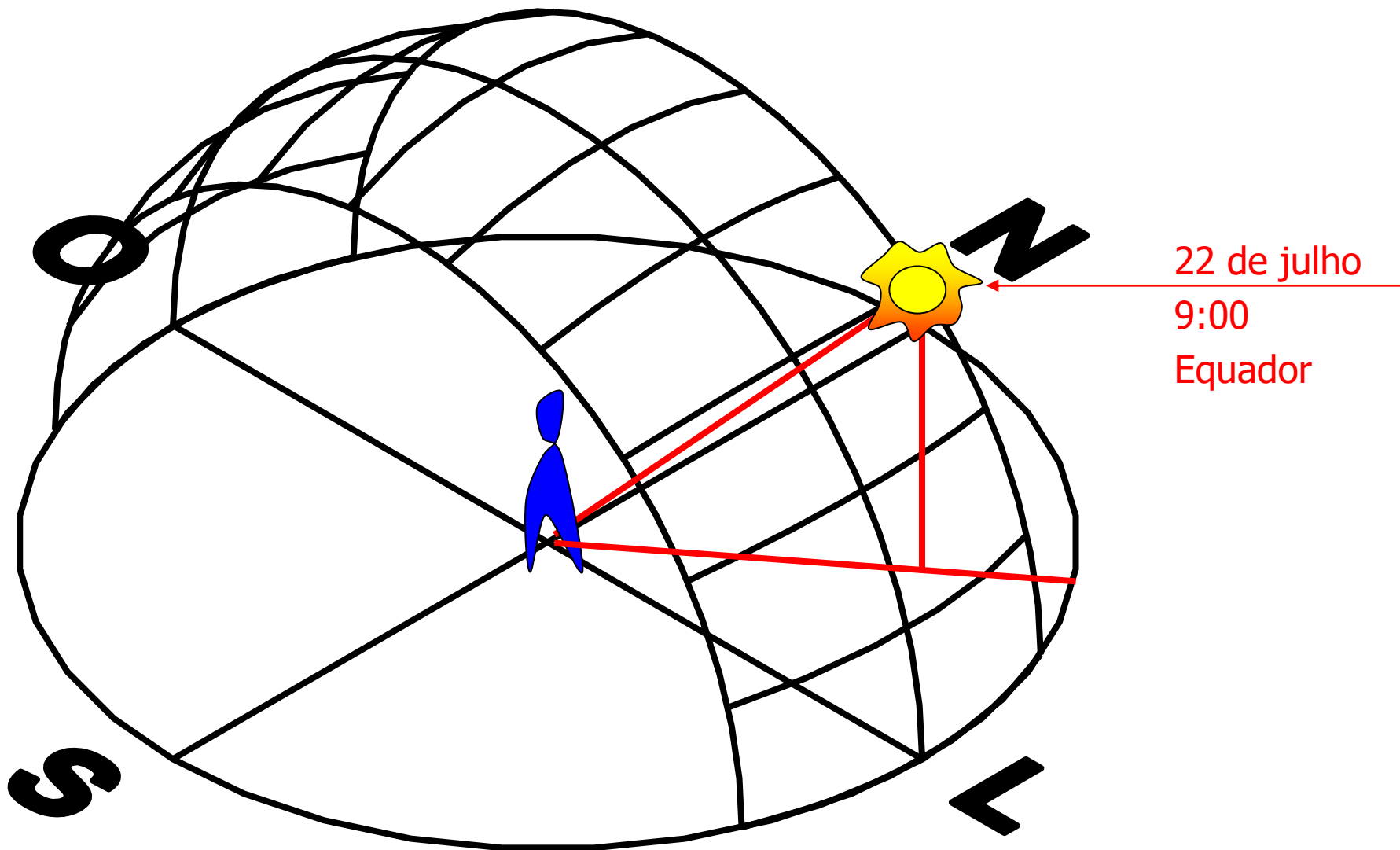
Fachada NE



Fachada SO



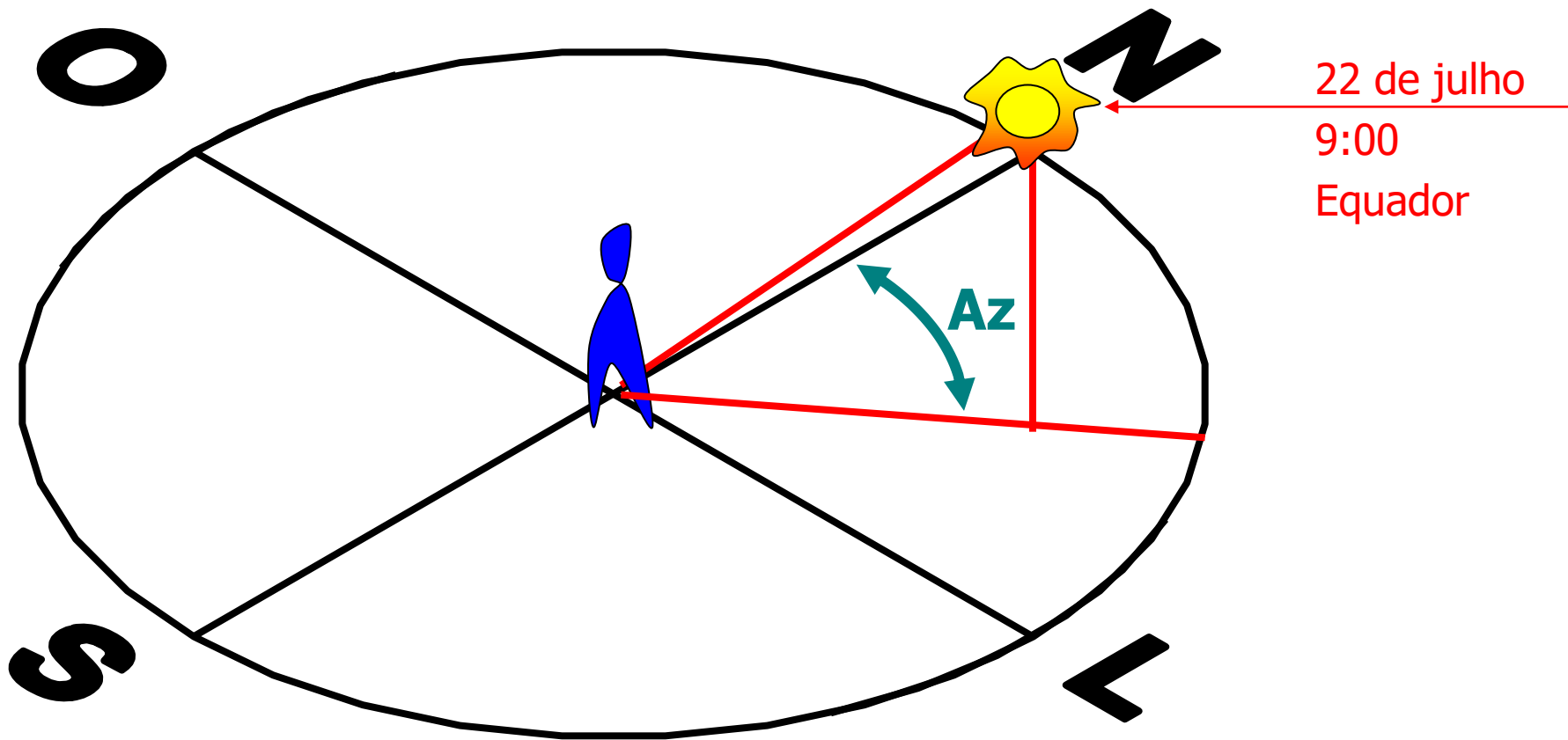
localizando o sol



localizando o sol

Orientação em relação ao norte:

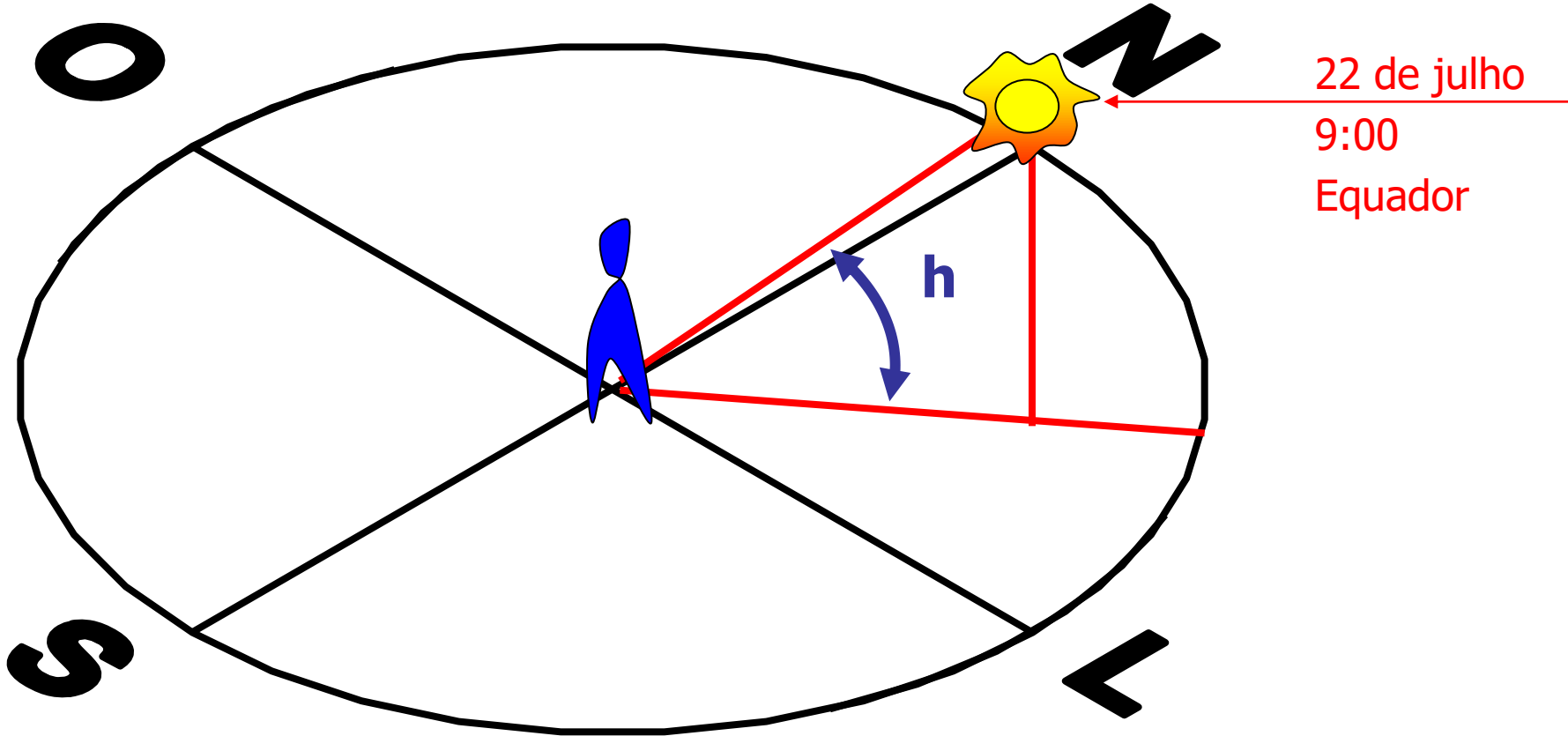
AZIMUTE



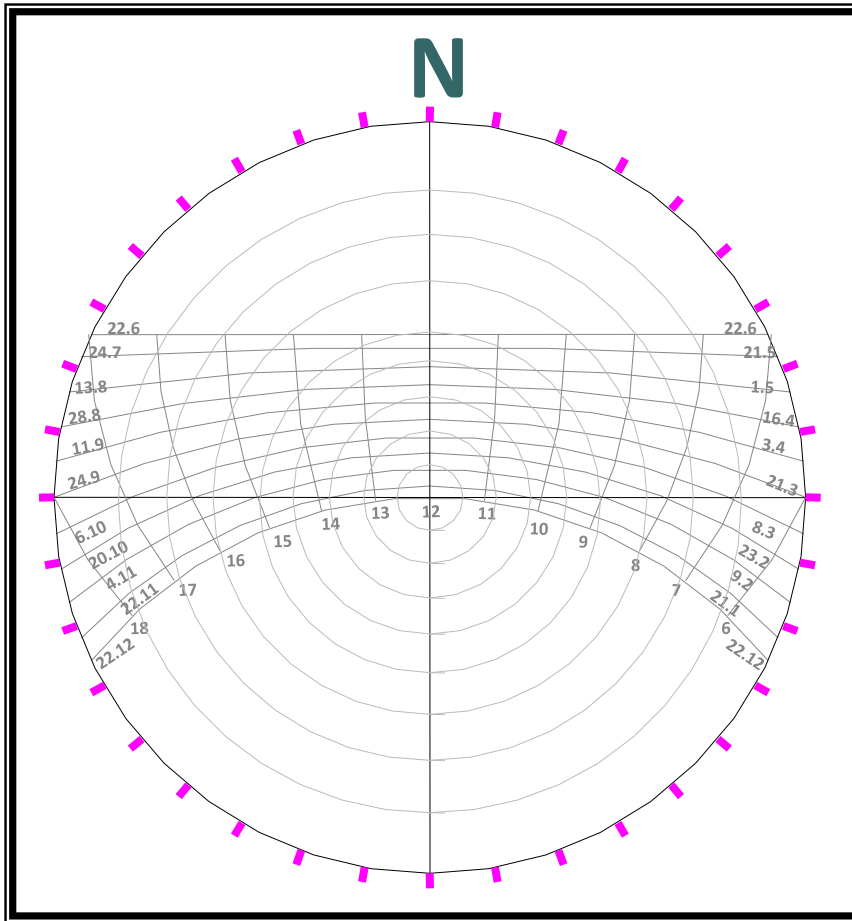
localizando o sol

Altura em relação ao plano do horizonte:

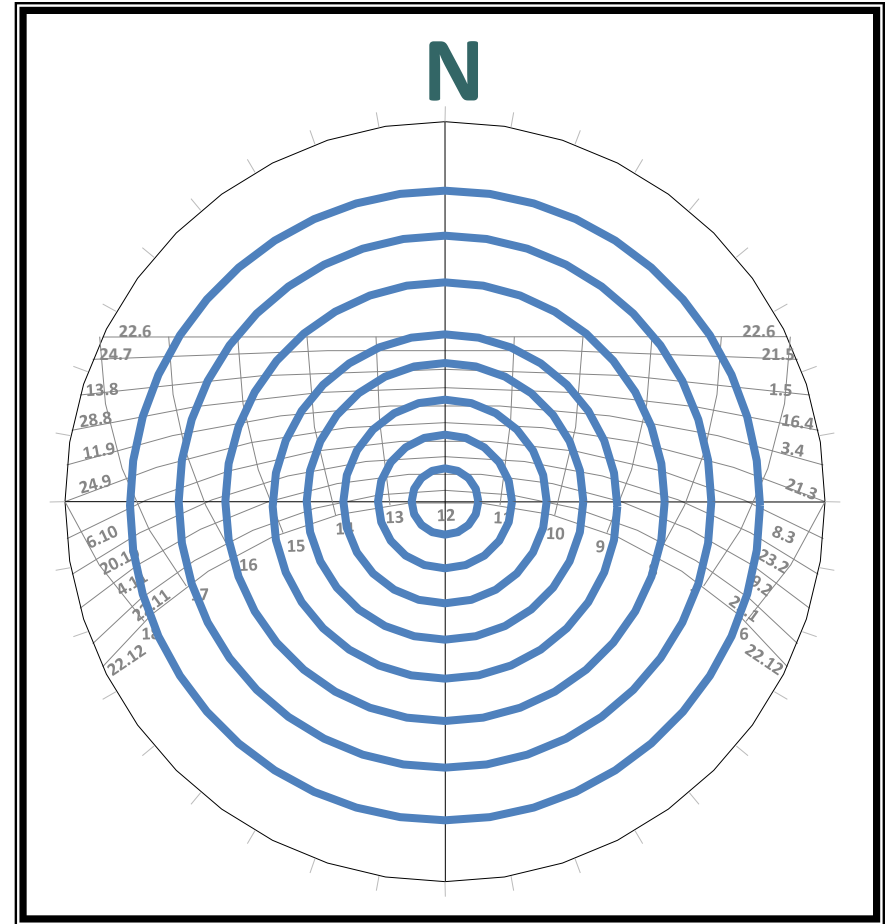
ALTURA SOLAR



localizando o sol

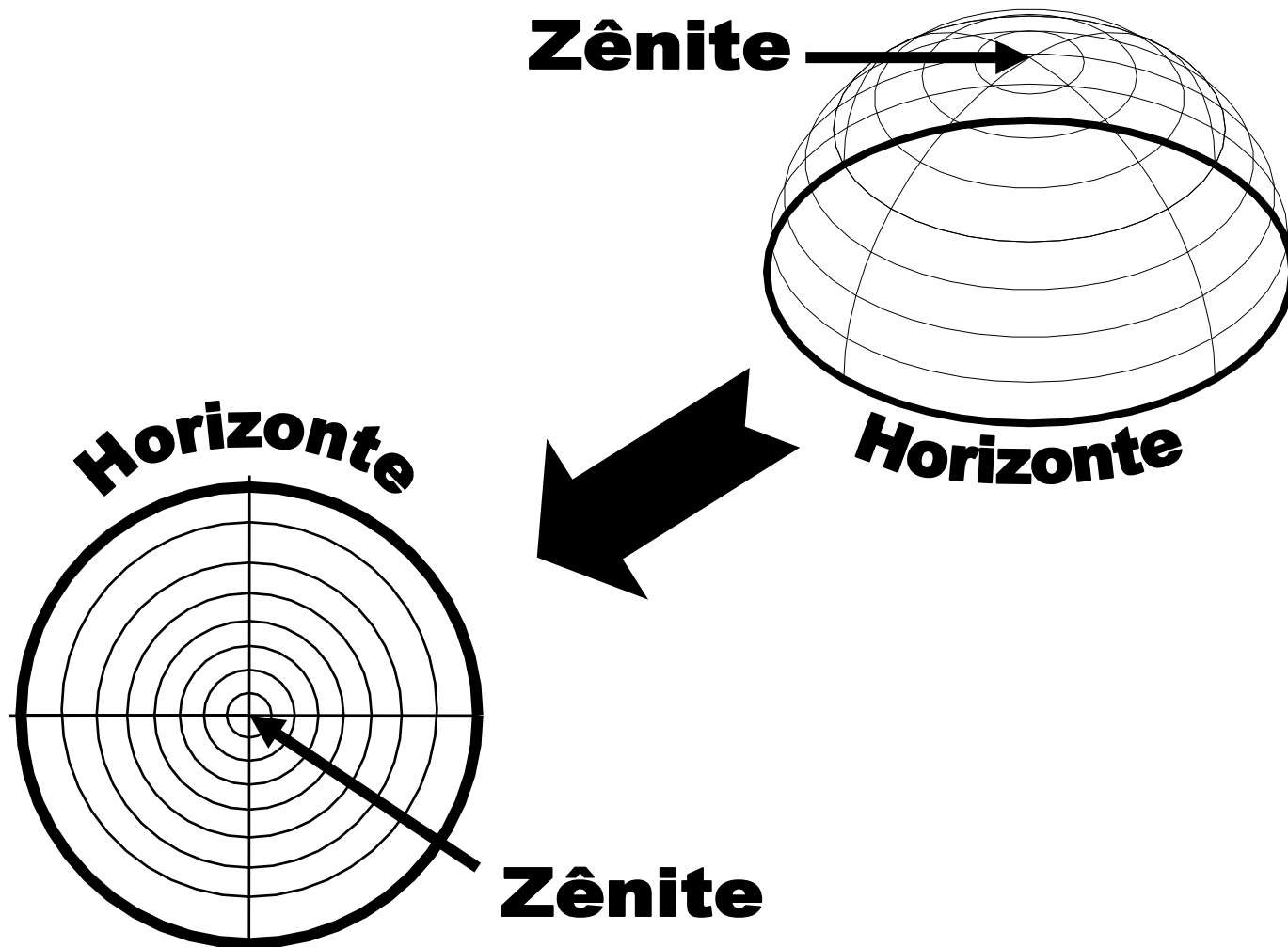


Azimute
ângulo em relação
ao norte
=> 0° a 360°



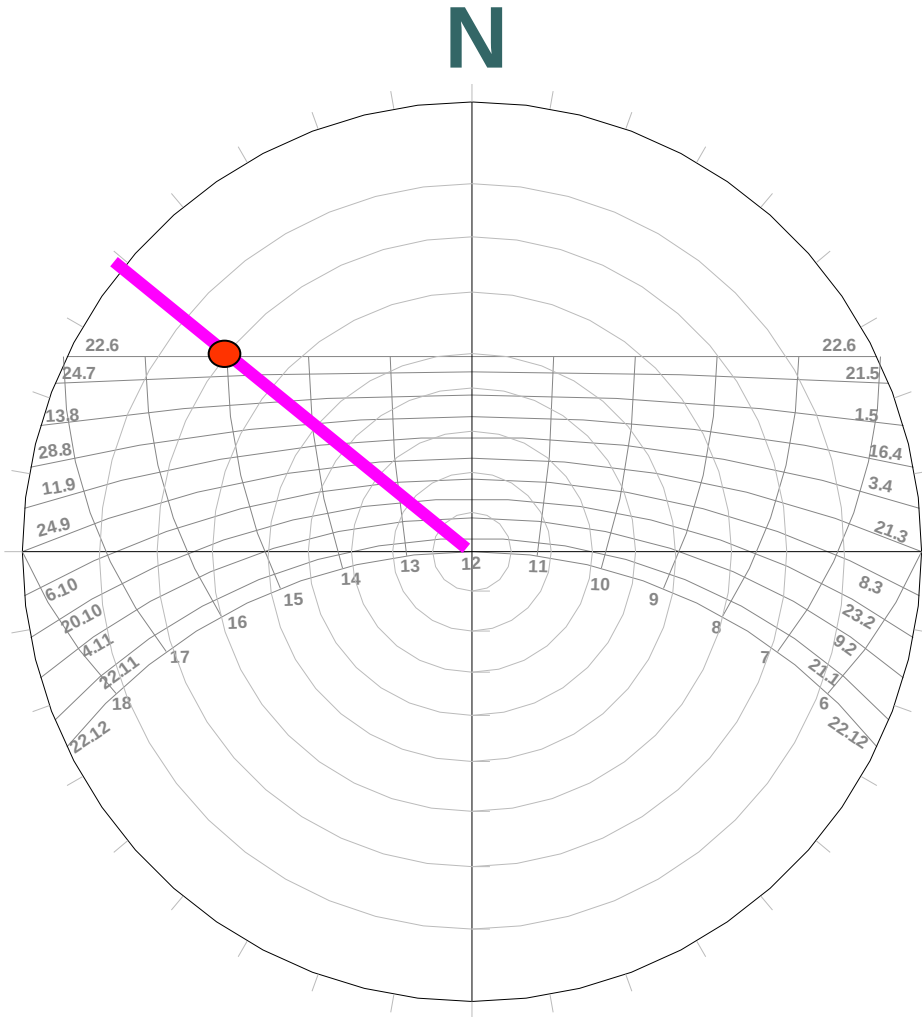
Altura solar
ângulo com o
horizonte
=> 0° a 90

encontrando o sol



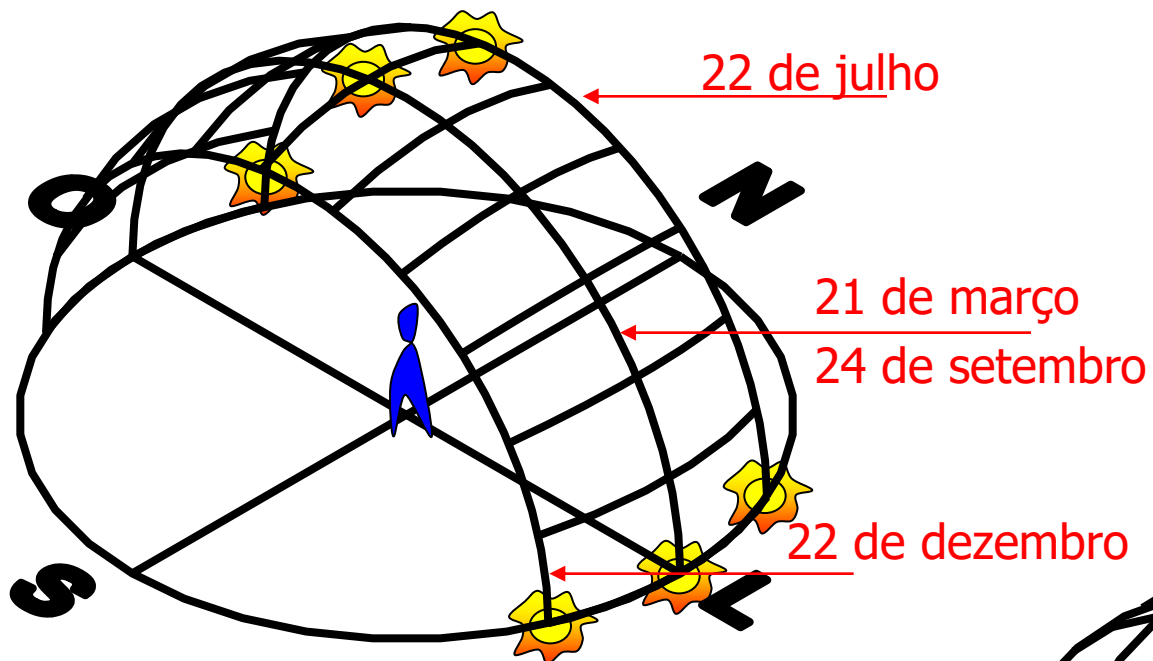
projeção estereográfica

- Onde está o sol às 15 horas do dia 22.6 ?



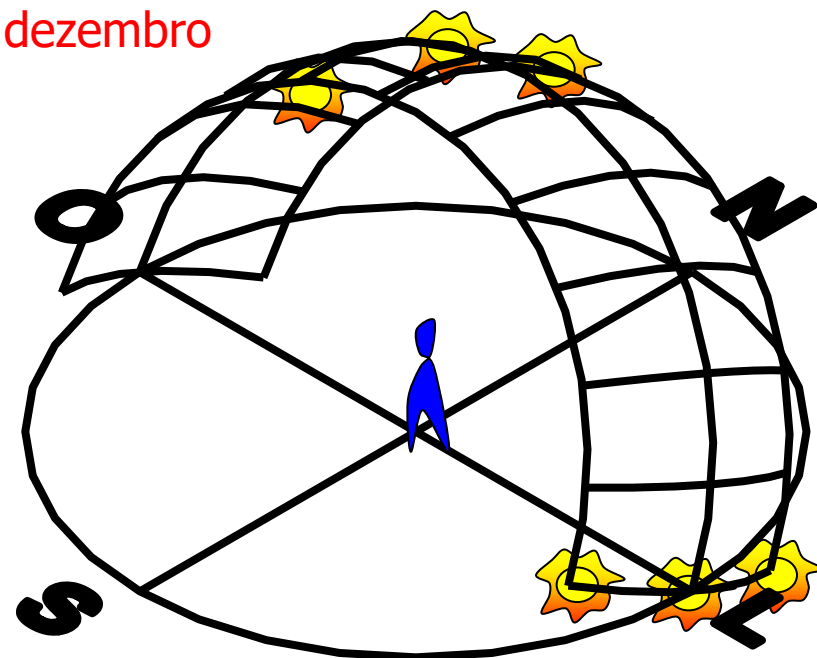
Az = 310°

encontrando o sol

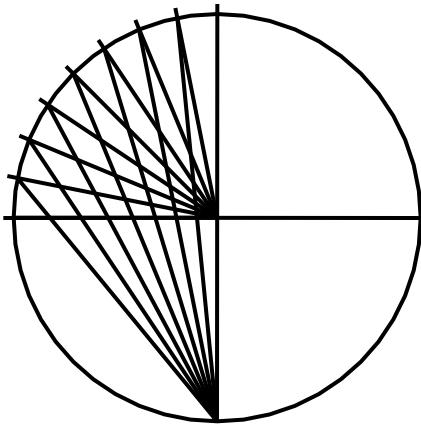


Equador
Latitude 0°

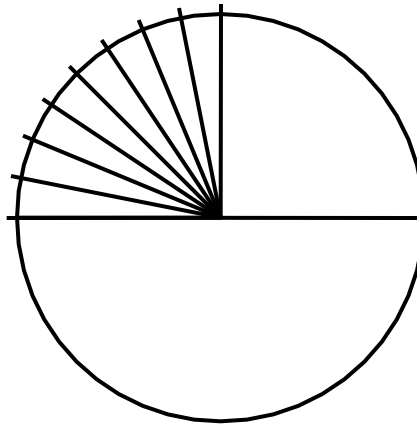
São Paulo
Latitude 23°30'



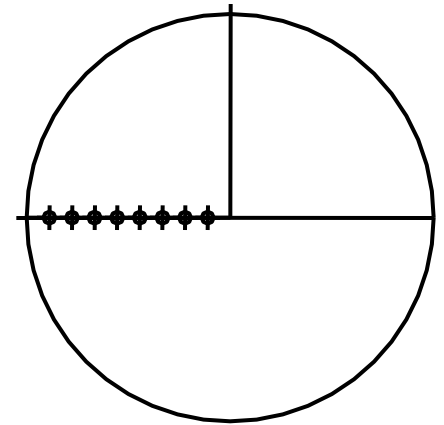
a carta solar



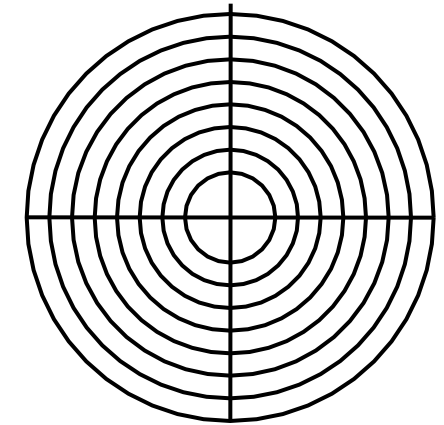
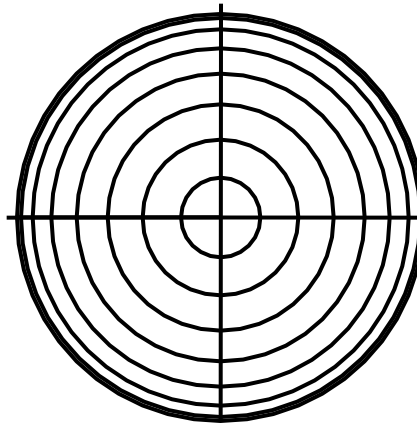
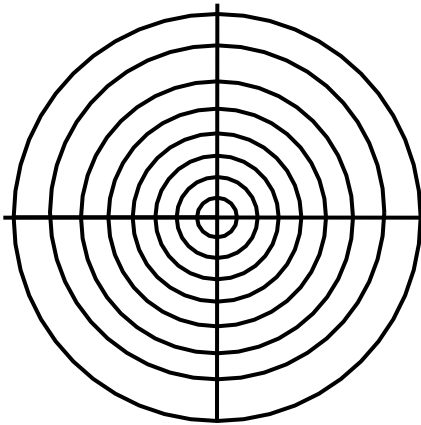
Estereográfica



Ortográfica

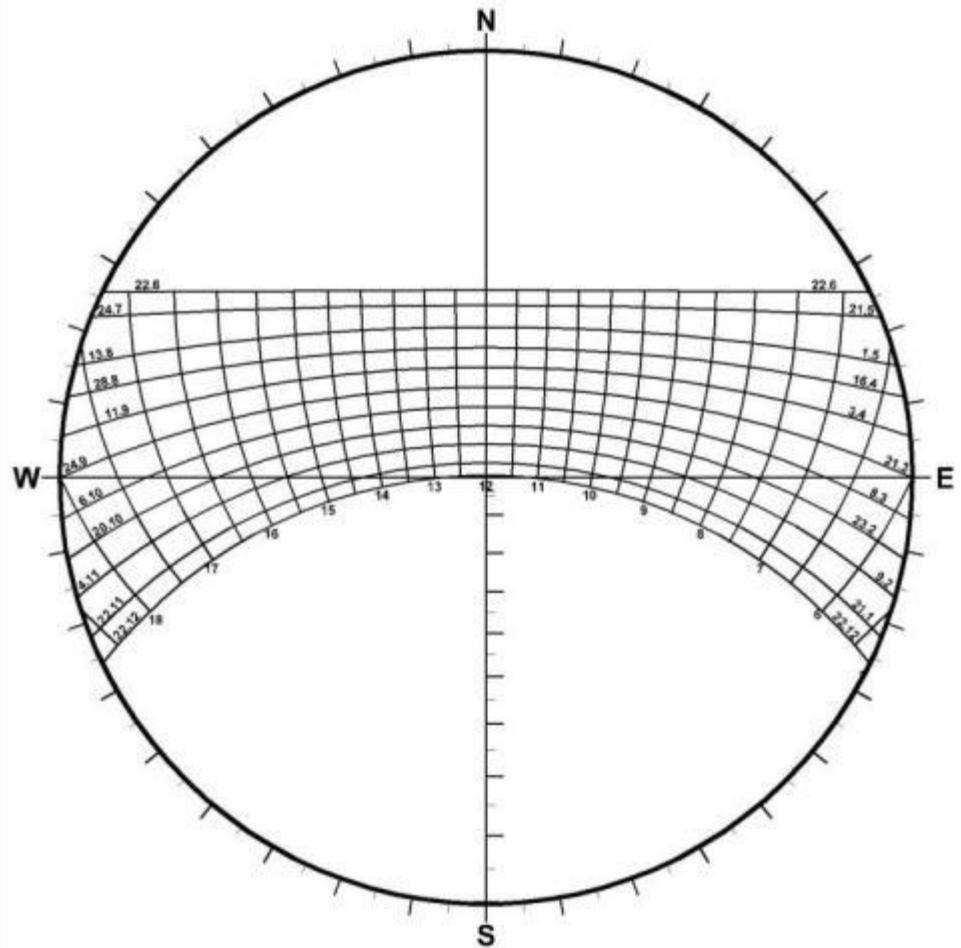


Equidistante



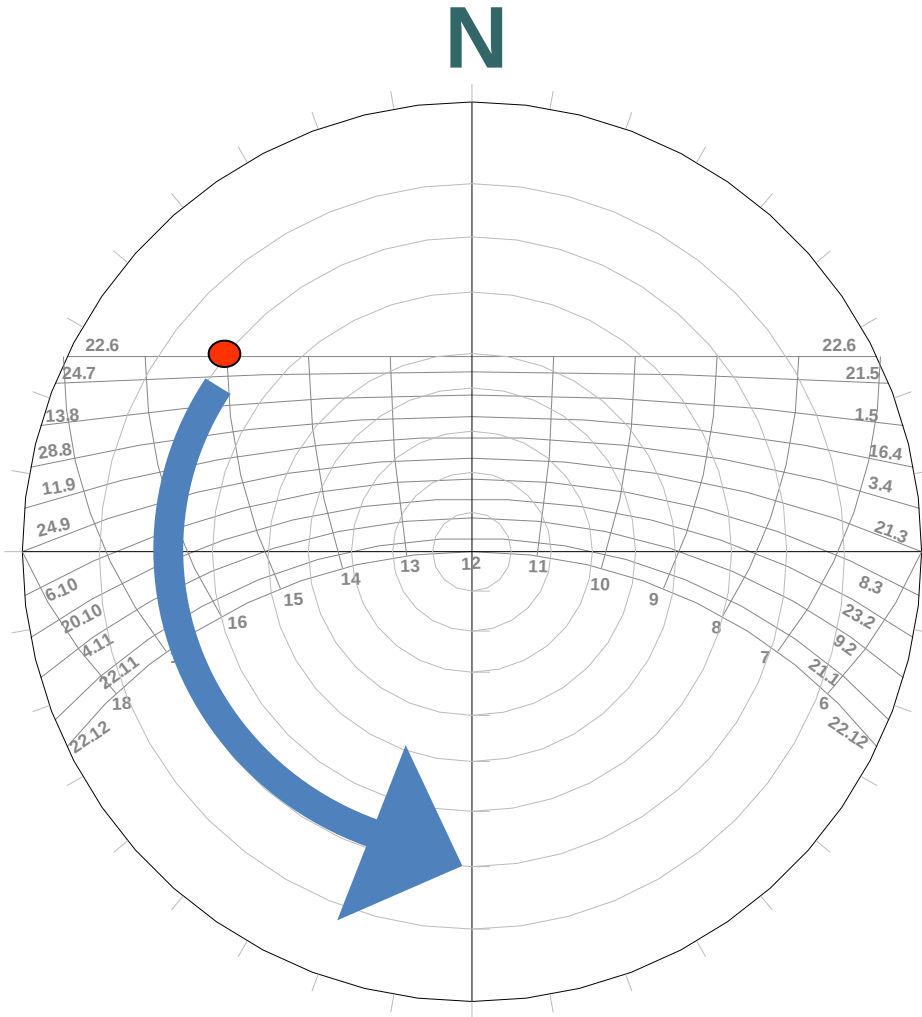
projeção estereográfica

Latitude 24° Sul



cartas solares : 24° S

- Onde está o sol às 15 horas do dia 22.6 ?

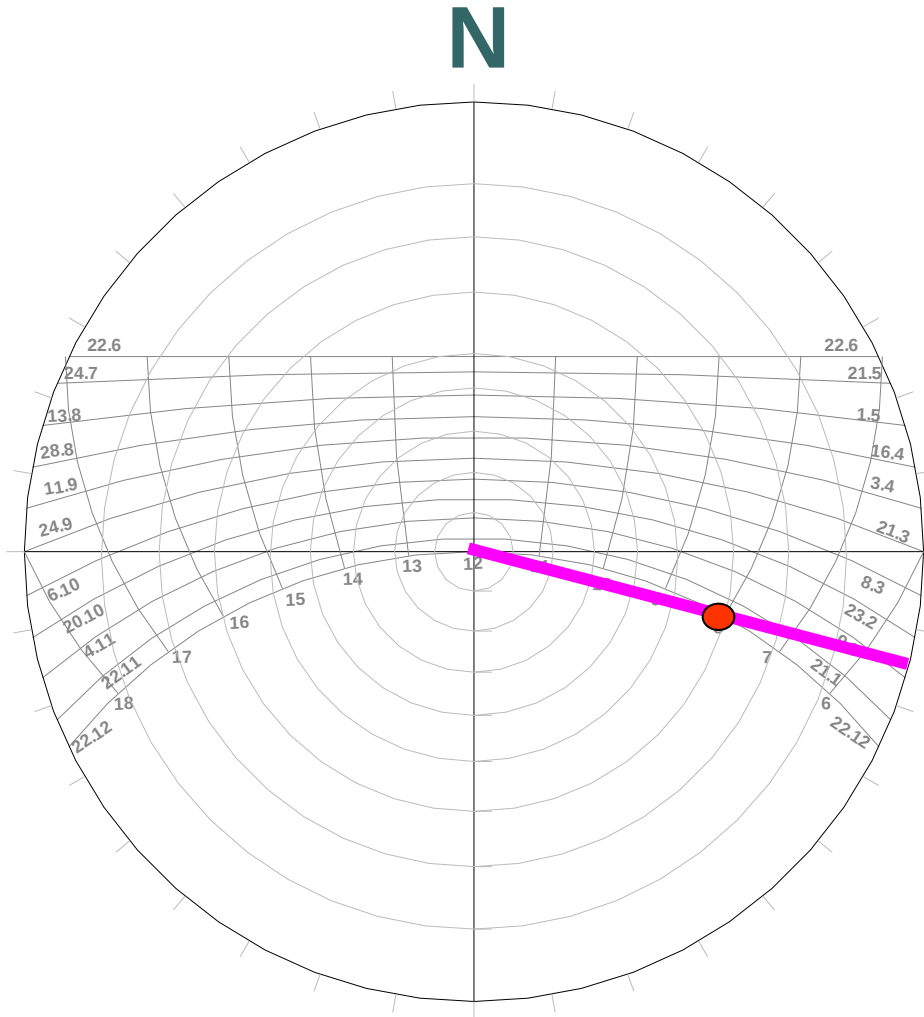


Az = 310°

hs = 20°

encontrando o sol

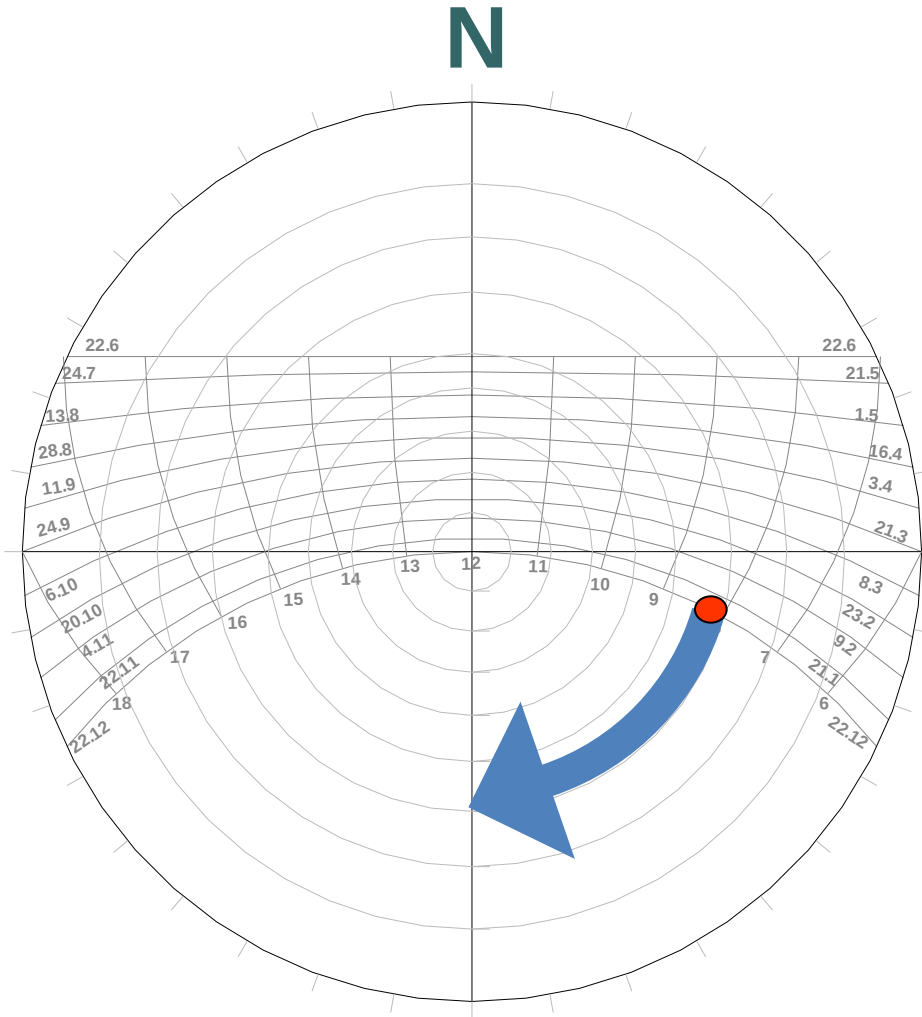
- Onde está o sol às 8 horas do dia 22.12 ?



Az = 105°

encontrando o sol

- Onde está o sol às 8 horas do dia 22.12 ?



Az = 105°

hs = 30°

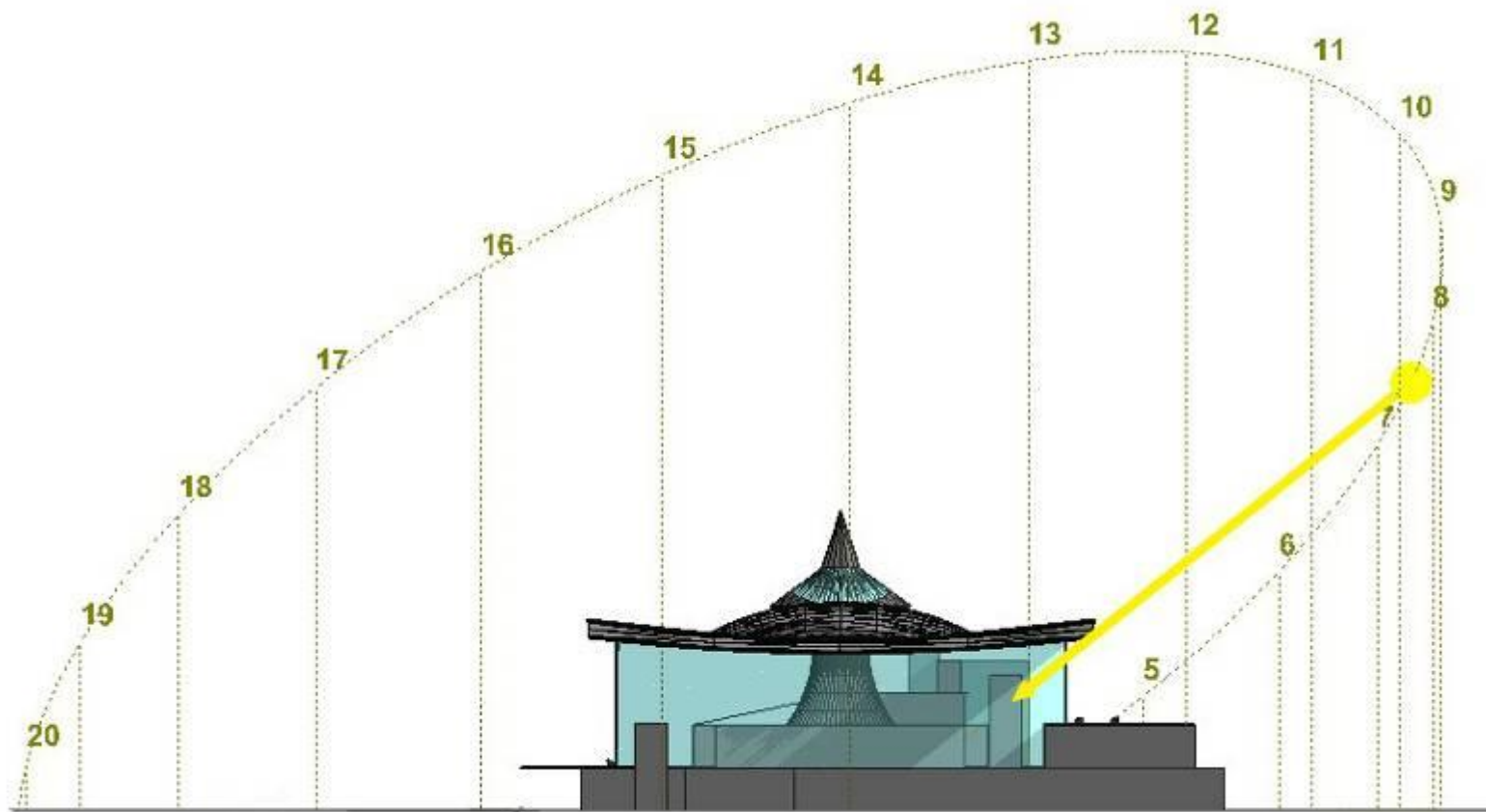
encontrando o sol

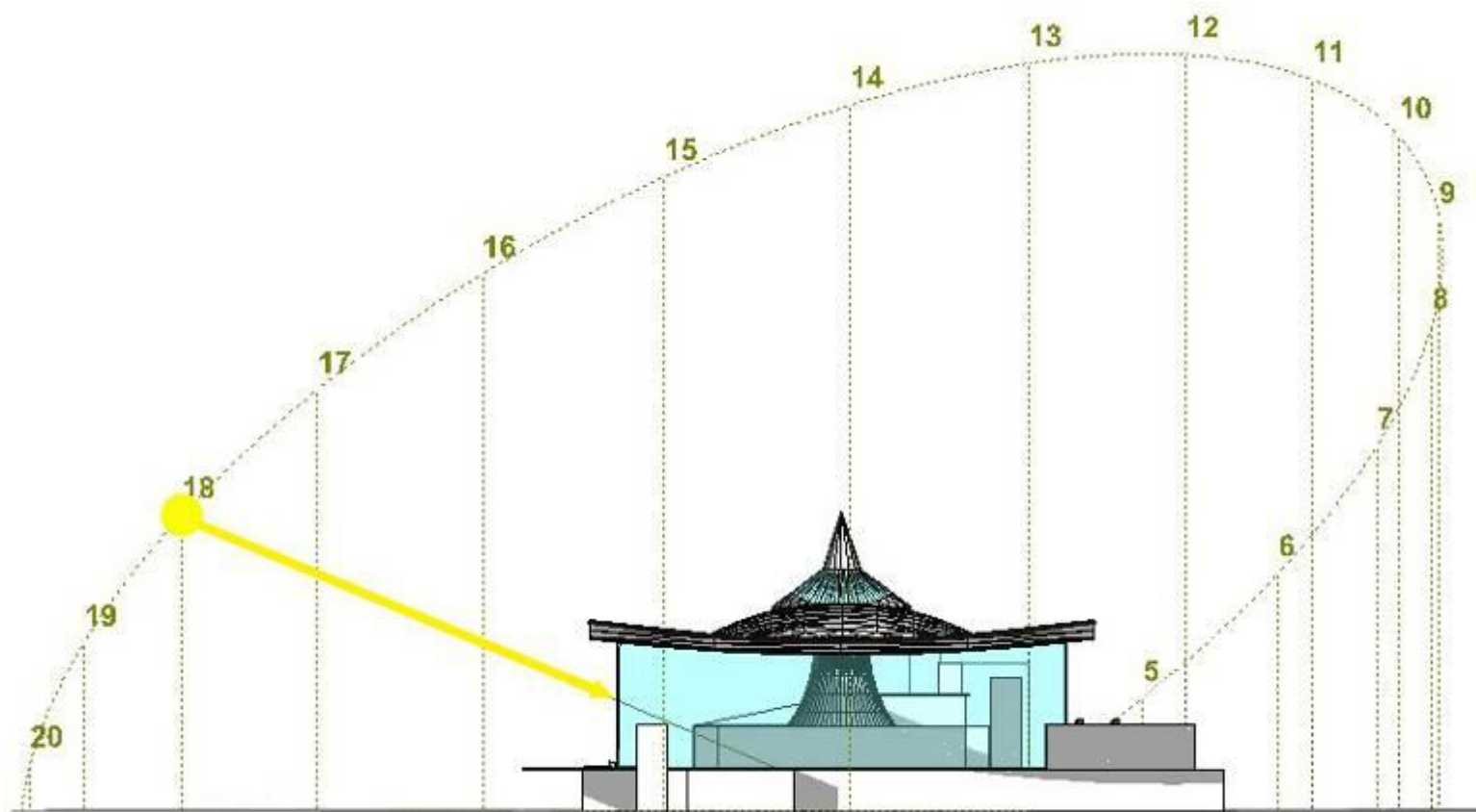
National Assembly for Wales

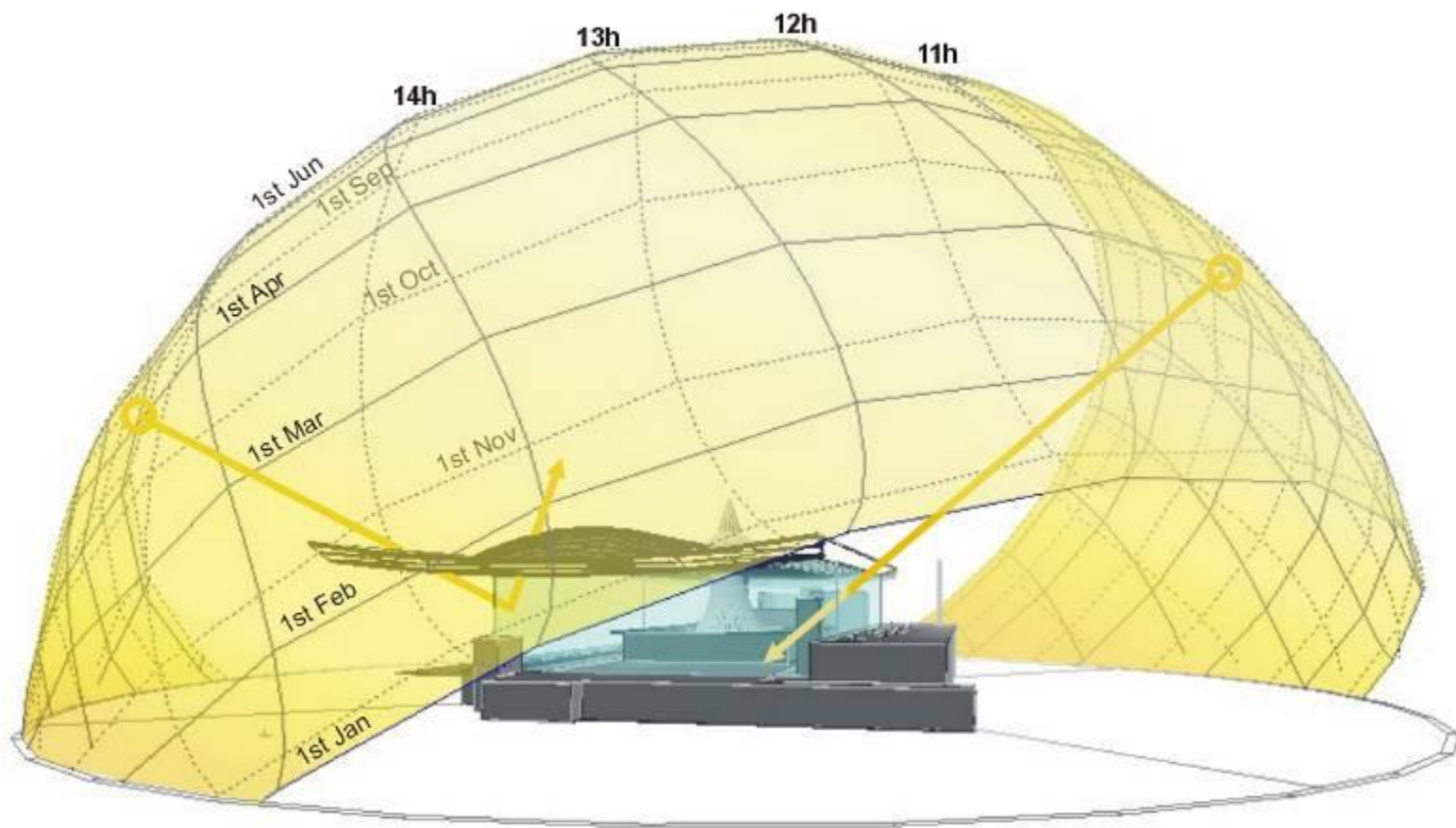
Architect: Richard Rogers Partnership



BDSP Partnership







FUI!