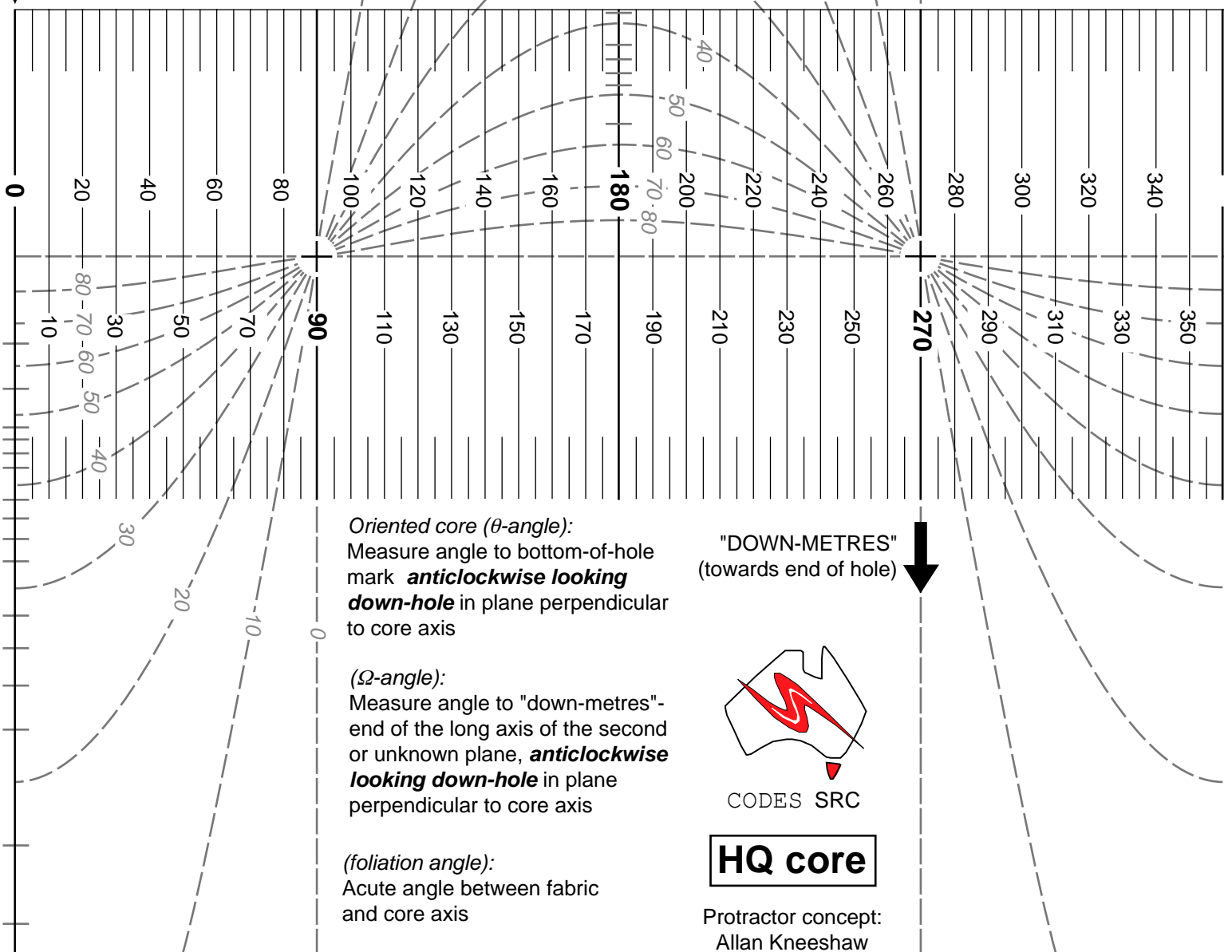




Align with major axis ("down-metres"-end) of elliptical section through known plane



Oriented core (θ -angle):
 Measure angle to bottom-of-hole mark **anticlockwise looking down-hole** in plane perpendicular to core axis

(Ω -angle):
 Measure angle to "down-metres"-end of the long axis of the second or unknown plane, **anticlockwise looking down-hole** in plane perpendicular to core axis

(foliation angle):
 Acute angle between fabric and core axis

"DOWN-METRES" (towards end of hole)



CODES SRC

HQ core

Protractor concept:
 Allan Kneeshaw





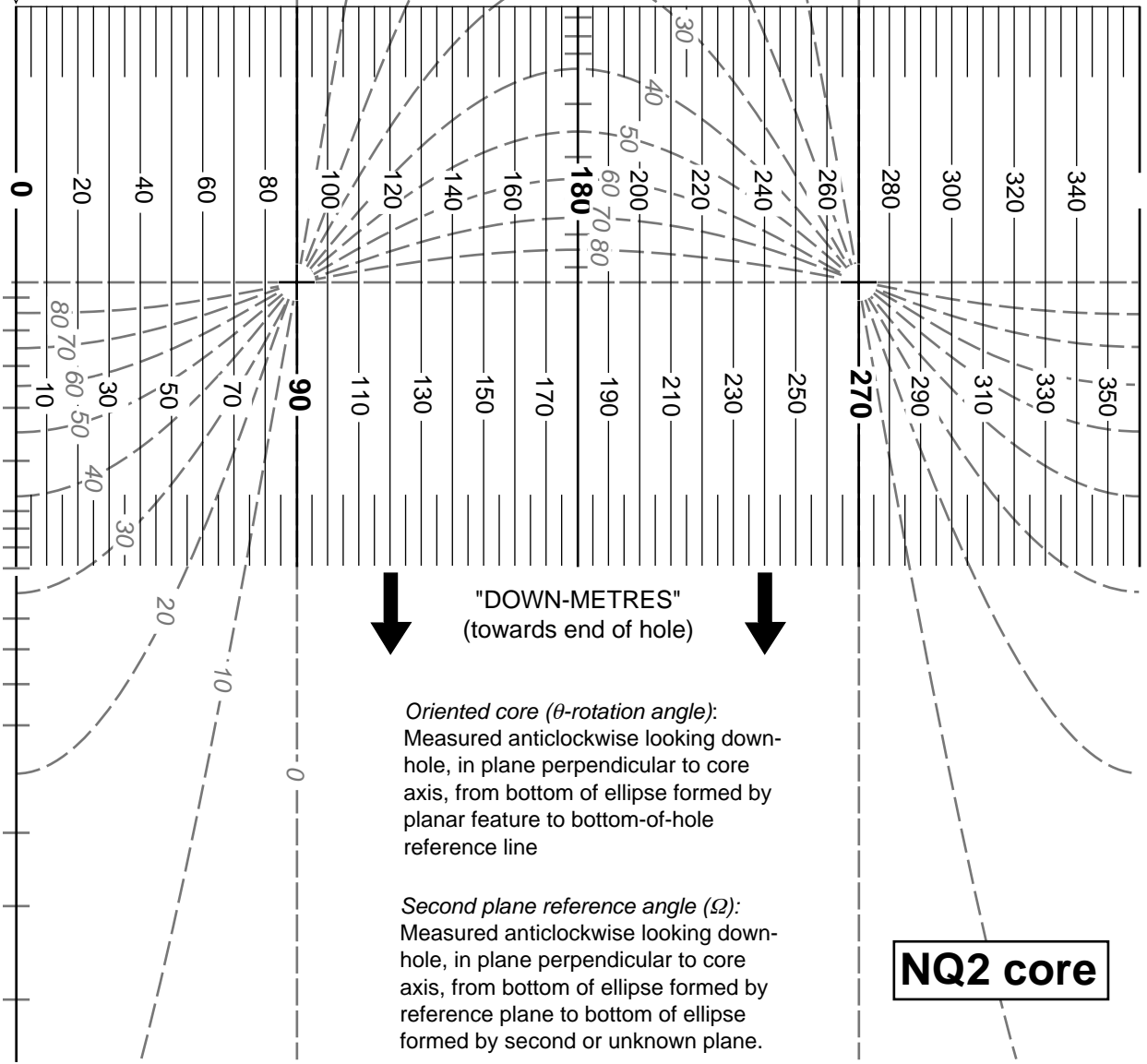
Core rotation angle
Align with:
**bottom of ellipse for
plane (θ) or reference
plane (Ω)**

foliation angle (α)
Align with:
**bottom of ellipse for
plane of interest**



CODES SRC

Protractor concept:
Allan Kneeshaw



Oriented core (θ -rotation angle):
Measured anticlockwise looking down-hole, in plane perpendicular to core axis, from bottom of ellipse formed by planar feature to bottom-of-hole reference line

Second plane reference angle (Ω):
Measured anticlockwise looking down-hole, in plane perpendicular to core axis, from bottom of ellipse formed by reference plane to bottom of ellipse formed by second or unknown plane.

NQ2 core



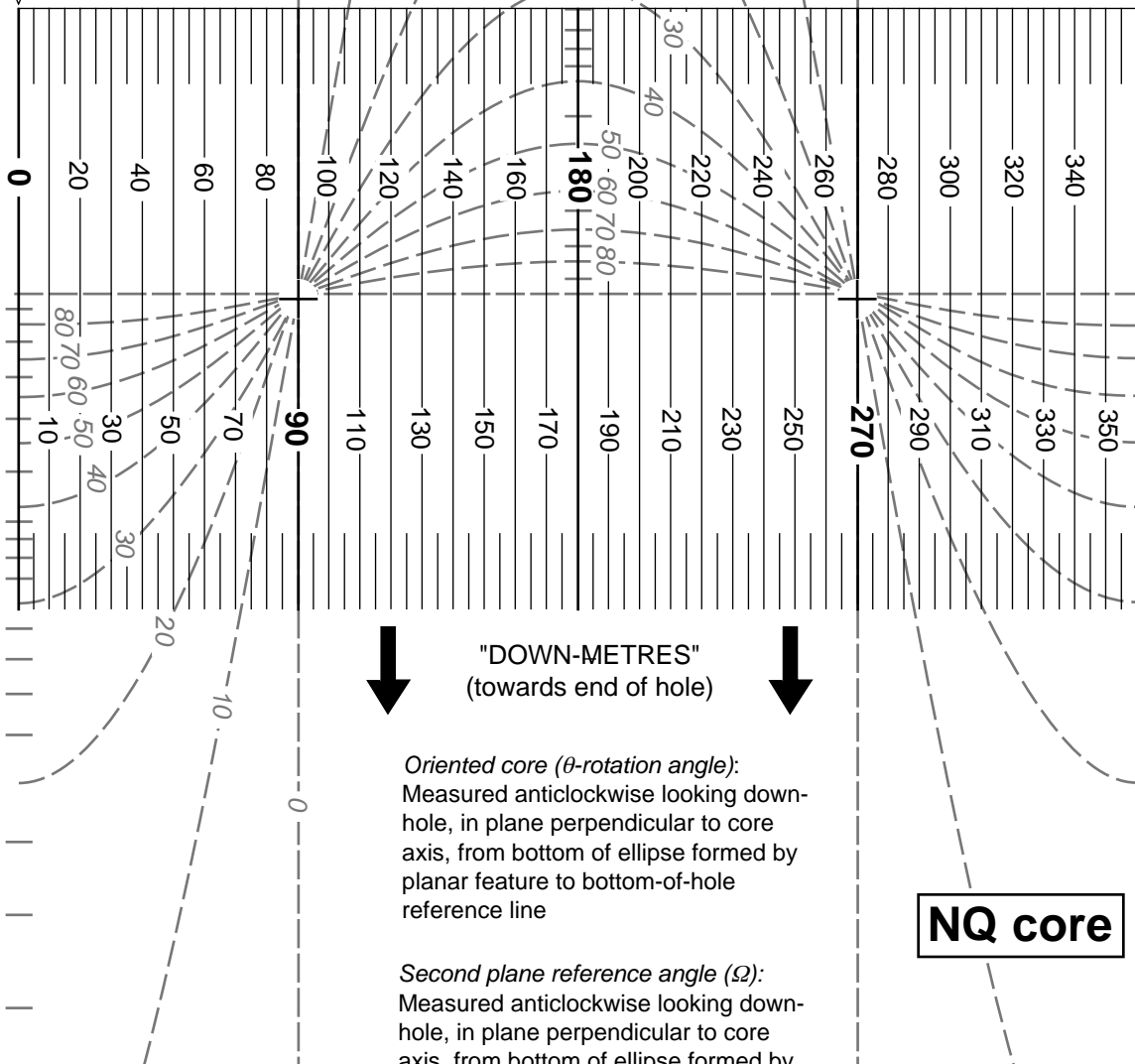


CODES SRC

Protractor concept:
Allan Kneeshaw

Core rotation angle
Align with:
bottom of ellipse
for plane (θ) or
reference plane (Ω)

foliation angle (α)
Align with:
bottom of ellipse for
plane of interest

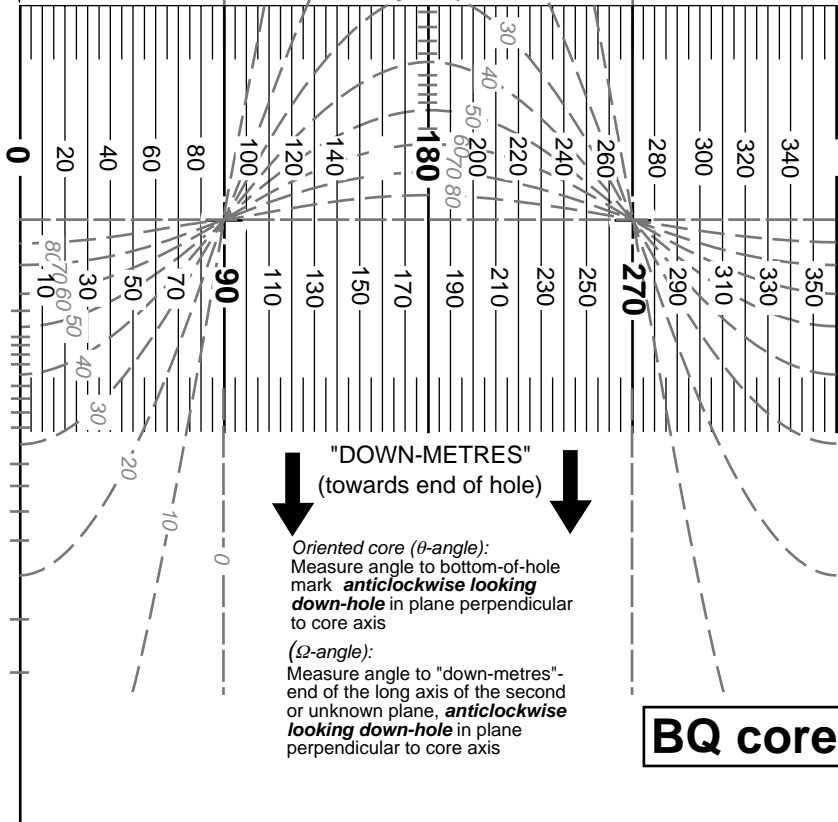


Oriented core (θ -rotation angle):
Measured anticlockwise looking down-hole, in plane perpendicular to core axis, from bottom of ellipse formed by planar feature to bottom-of-hole reference line

Second plane reference angle (Ω):
Measured anticlockwise looking down-hole, in plane perpendicular to core axis, from bottom of ellipse formed by reference plane to bottom of ellipse formed by second or unknown plane.



Align with major axis ("down-metres"-end) of elliptical section through known plane



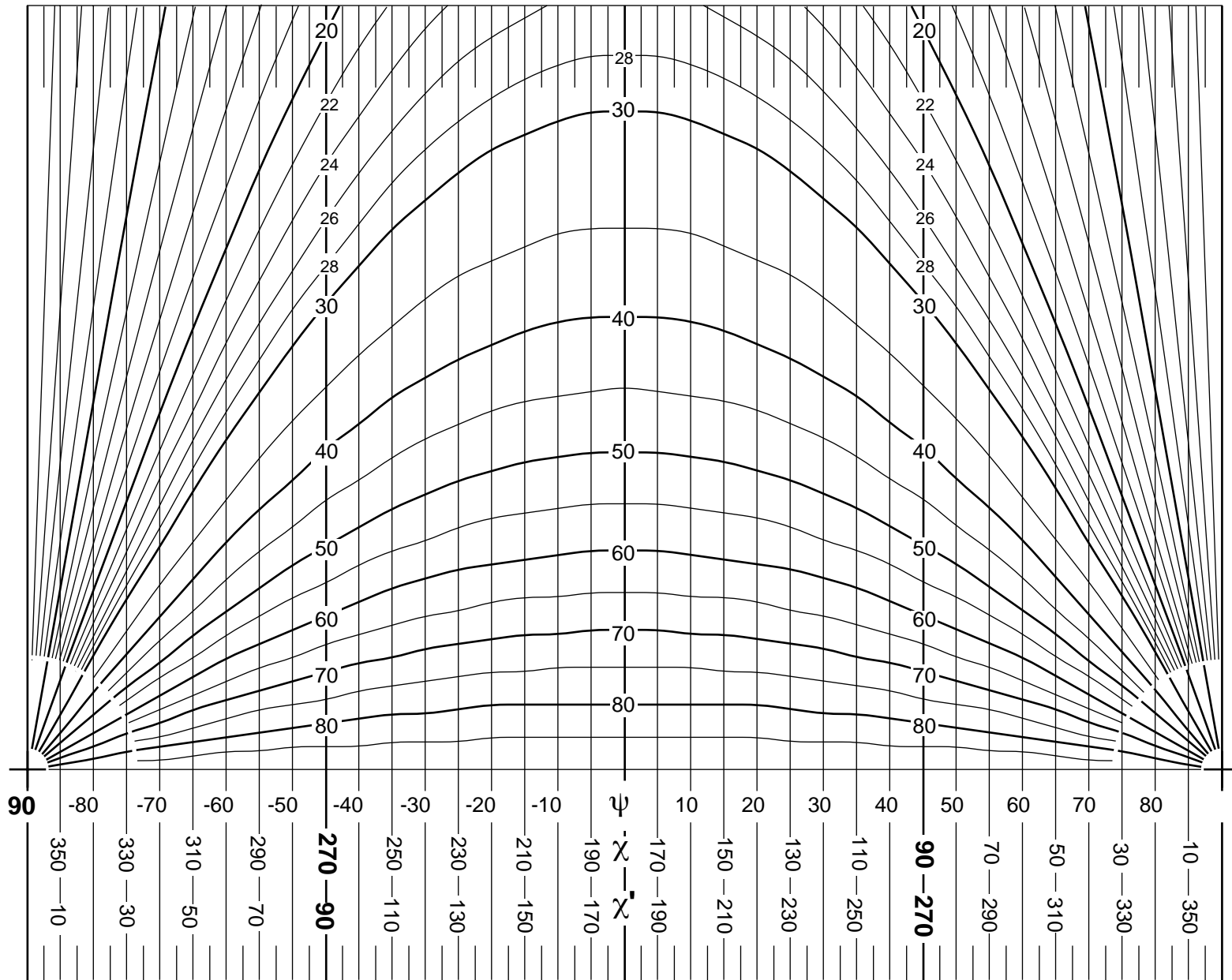
"DOWN-METRES"
(towards end of hole)

Oriented core (θ -angle):
Measure angle to bottom-of-hole mark **anticlockwise looking down-hole** in plane perpendicular to core axis

(Ω -angle):
Measure angle to "down-metres"-end of the long axis of the second or unknown plane, **anticlockwise looking down-hole** in plane perpendicular to core axis

BQ core





external core circumference:
14.92 cm
print at 102 %: C=15.22 cm



"DOWN-METRES"
(towards end of hole)

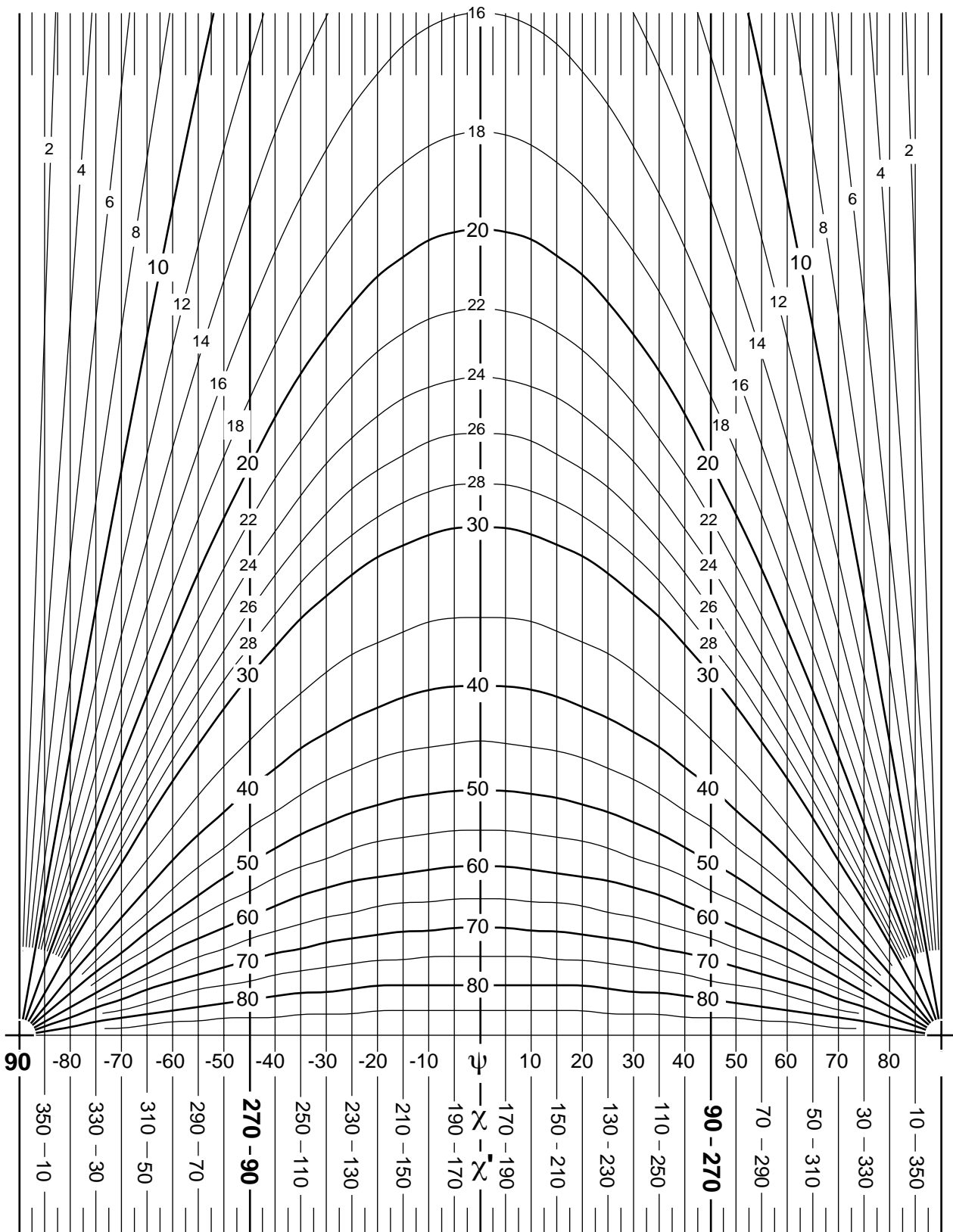


$$\Omega = \chi + \psi$$

$$\theta = \chi' - \psi$$

HQ core





"DOWN-METRES"
(towards end of hole)

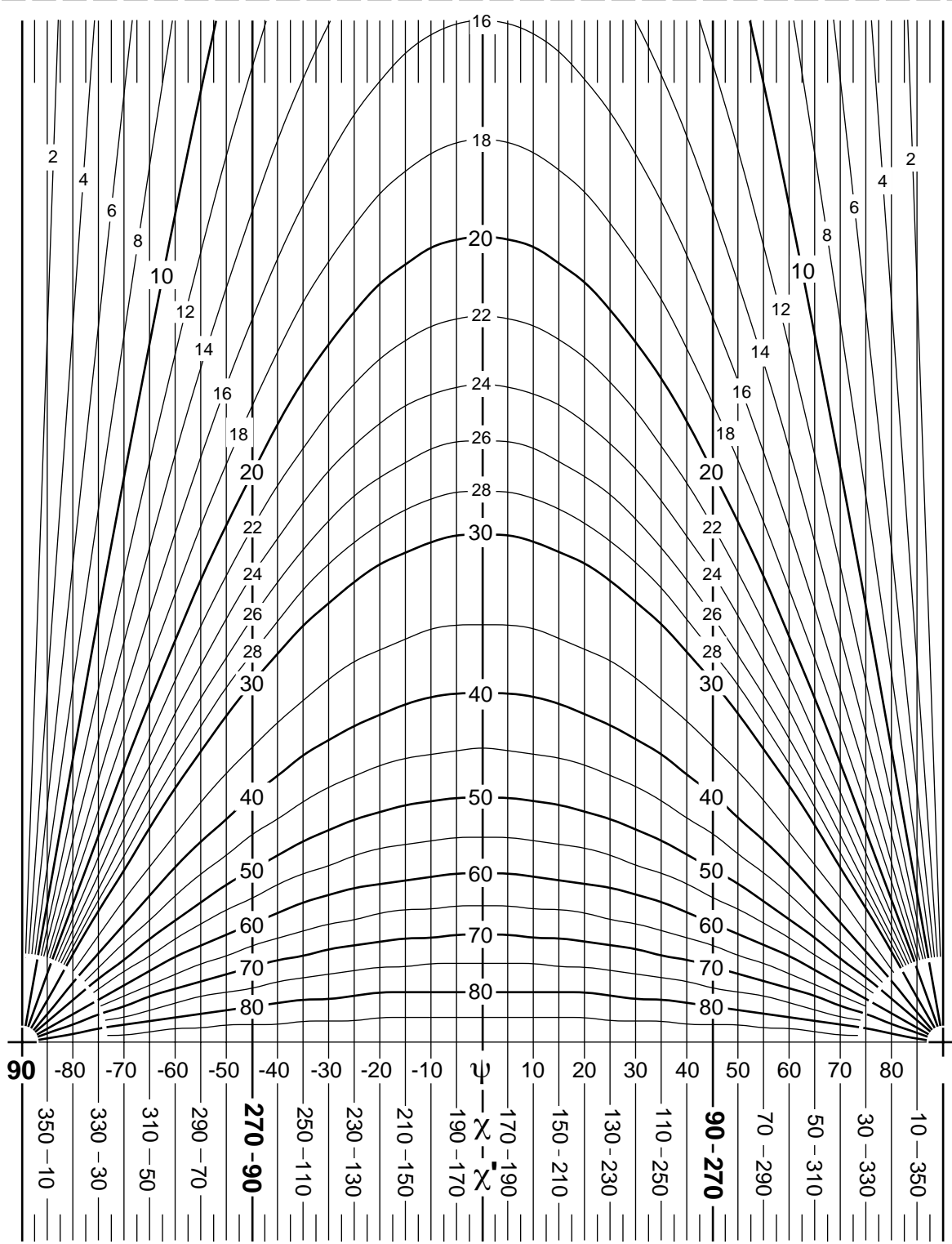
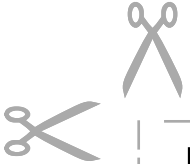


$$\Omega = \chi + \psi$$

$$\theta = \chi' - \psi$$

NQ2 core





↓ ↓ "DOWN-METRES" (towards end of hole) ↓ ↓
 $\Omega = \chi + \psi$
 $\theta = \chi - \psi$

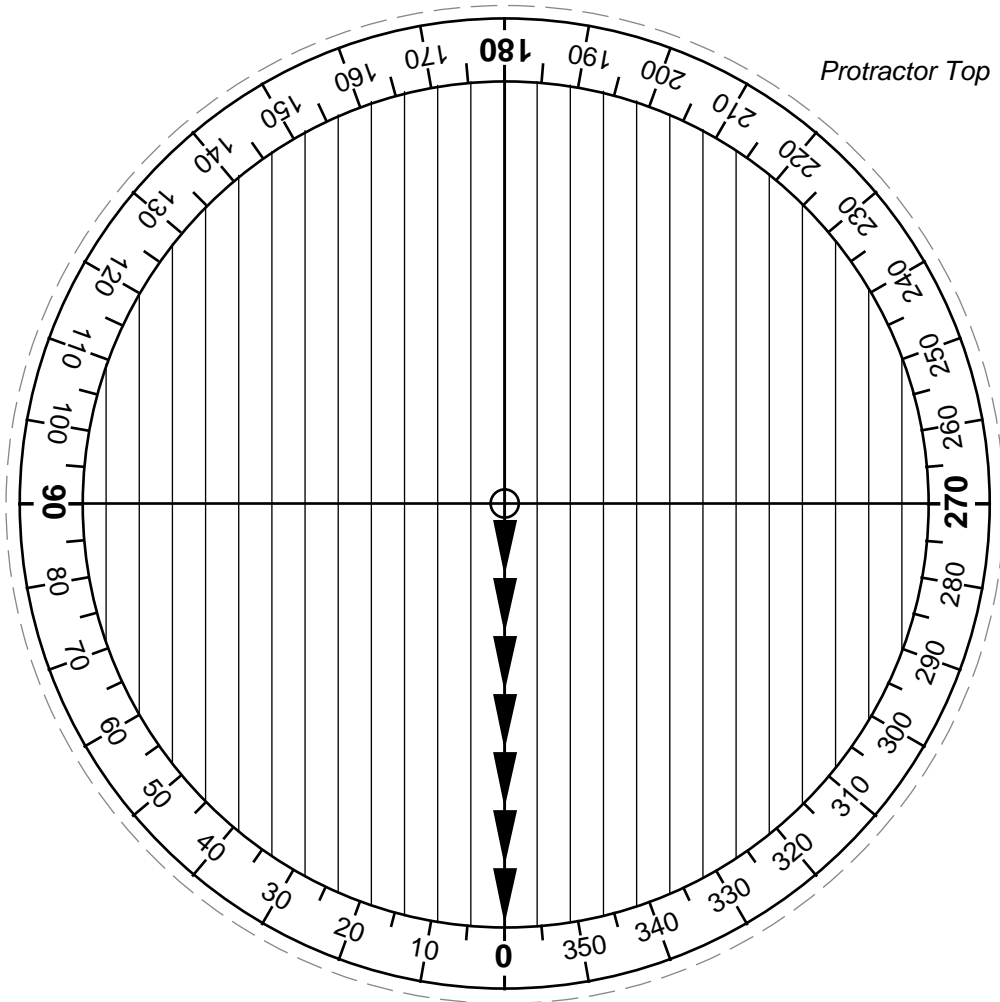
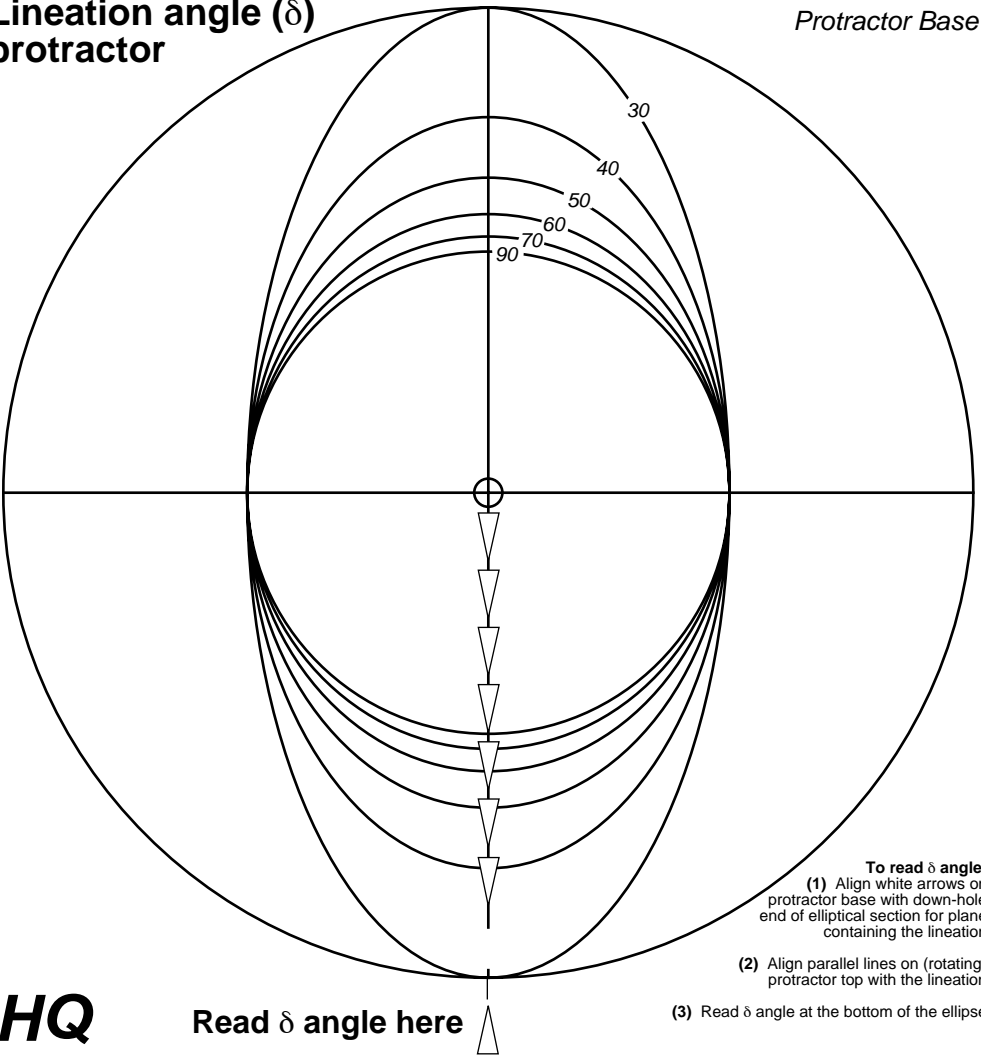
NQ core

external core circumference: 14.92 cm
 print at 102 %: 15.22 cm



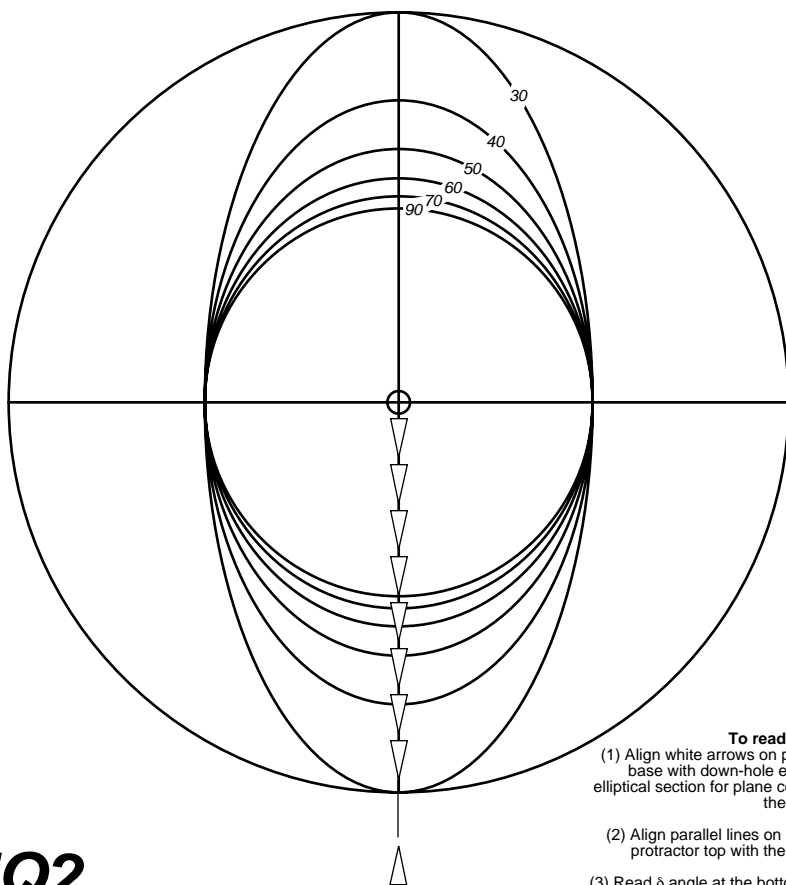
Lination angle (δ) protractor

Protractor Base



Lination angle (δ) protractor

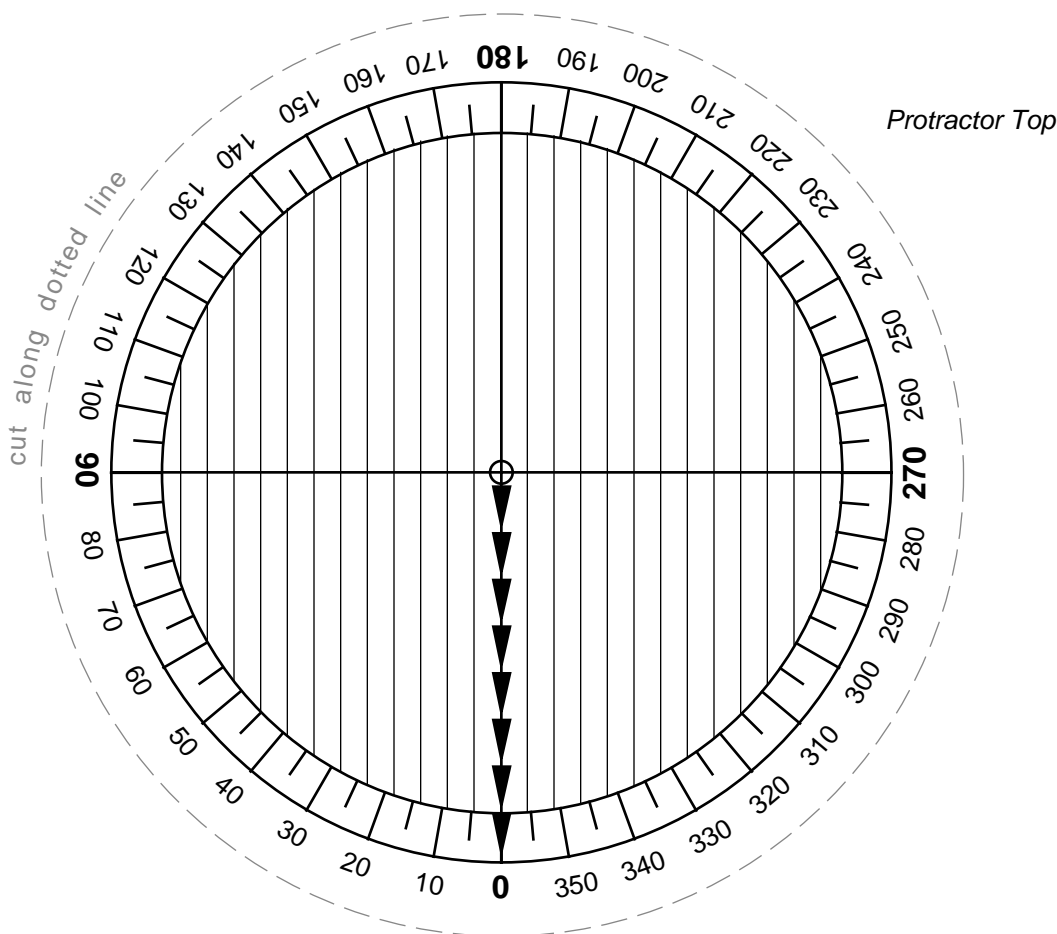
Protractor Base



- To read δ angle:**
- (1) Align white arrows on protractor base with down-hole end of the elliptical section for plane containing the lination
 - (2) Align parallel lines on (rotating) protractor top with the lination
 - (3) Read δ angle at the bottom of the ellipse

Read δ angle here

NQ2



Protractor Top