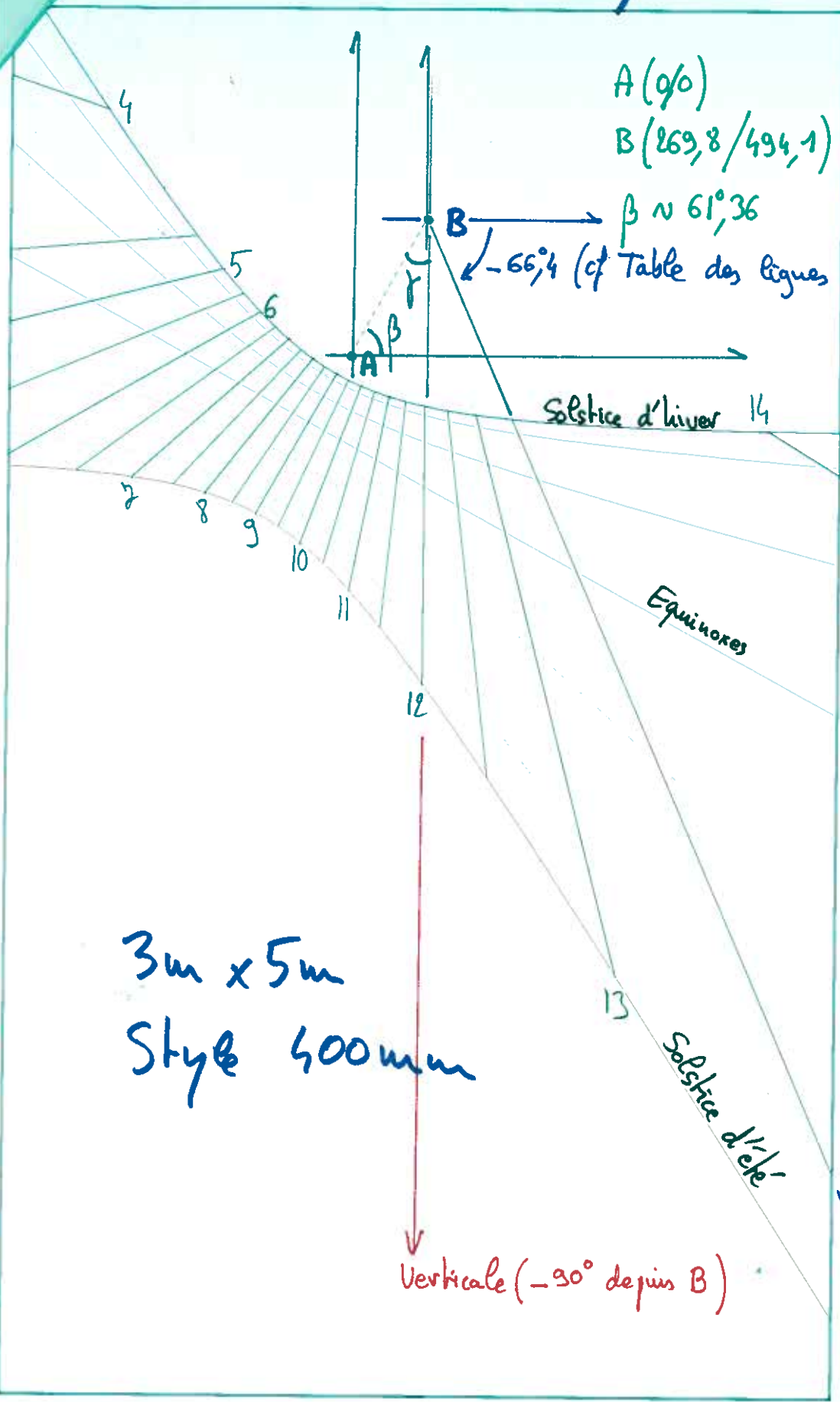


Vertical déclinant, LP Jean Caillaud (16)



A (0/0)
B (269,8 / 494,1)

$\beta \approx 61,36$

$\gamma \approx -66,4$ (cf Table des lignes horaires)

$\varphi = 45^\circ 40' 46'' N$

$\lambda = 0^\circ 14' 30'' E$

$D = 34^\circ$

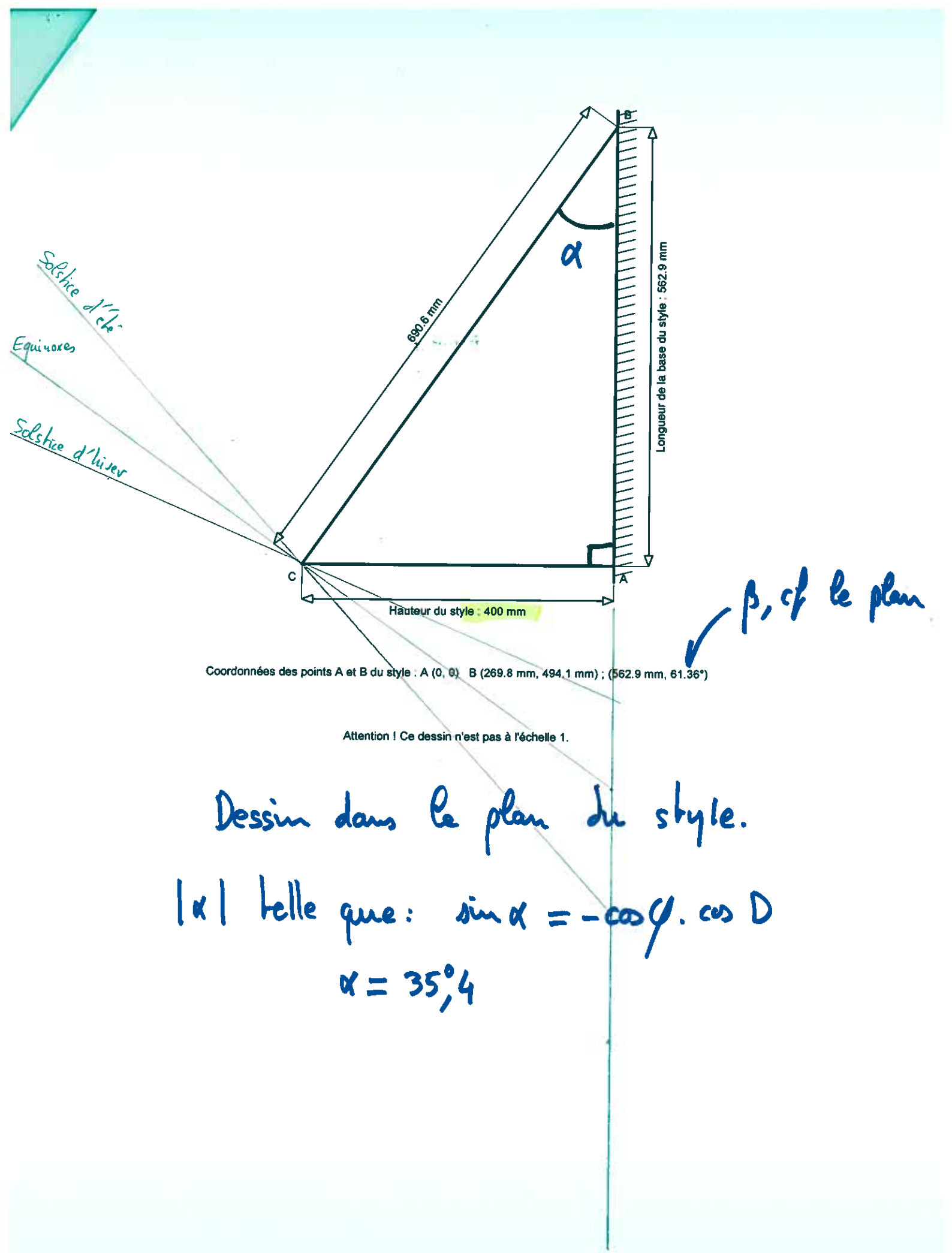
$$\text{tg } \gamma = \frac{\sin D}{\text{tg } \varphi}$$

$\gamma \approx 26,64$

3m x 5m
Style 400mm

Verticale (-90° depuis B)

13h30



Coordonnées des points A et B du style : A (0, 0) B (269.8 mm, 494.1 mm) ; (562.9 mm, 61.36°)

Attention ! Ce dessin n'est pas à l'échelle 1.

Dessin dans le plan du style.

$|\alpha|$ telle que : $\sin \alpha = -\cos \varphi \cdot \cos D$
 $\alpha = 35,4$

COORDONNÉES DES LIGNES HORAIRES

Origine des coordonnées (x, y) : point A.

Heure	Solstice d'été		Équinoxes		Solstice d'hiver		Angle depuis le point B.
	x	y	x	y	x	y	
4 h 30 m	-11297.5 mm	-444.2 mm	---	---	---	---	-175.4°
5 h 0 m	-3169.3 mm	-381.8 mm	---	---	---	---	-165.7°
5 h 30 m	-1848.0 mm	-387.8 mm	---	---	---	---	-157.4°
6 h 0 m	-1296.3 mm	-402.7 mm	-593.0 mm	-0.0 mm	---	---	-150.2°
6 h 30 m	-986.7 mm	-421.7 mm	-487.3 mm	-57.7 mm	---	---	-143.9°
7 h 0 m	-783.3 mm	-443.8 mm	-402.1 mm	-104.3 mm	---	---	-138.3°
7 h 30 m	-635.3 mm	-469.1 mm	-329.7 mm	-143.8 mm	---	---	-133.2°
8 h 0 m	-519.0 mm	-498.0 mm	-265.3 mm	-179.0 mm	-135.1 mm	-15.2 mm	-128.5°
8 h 30 m	-421.6 mm	-531.4 mm	-205.9 mm	-211.4 mm	-92.7 mm	-43.6 mm	-124.0°
9 h 0 m	-335.4 mm	-570.7 mm	-148.9 mm	-242.5 mm	-50.3 mm	-69.0 mm	-119.6°
9 h 30 m	-254.8 mm	-617.6 mm	-92.4 mm	-273.4 mm	-6.7 mm	-91.9 mm	-115.3°
10 h 0 m	-175.2 mm	-675.3 mm	-34.3 mm	-305.1 mm	38.8 mm	-112.9 mm	-110.8°
10 h 30 m	-91.6 mm	-748.3 mm	27.5 mm	-338.9 mm	87.5 mm	-132.4 mm	-106.2°
11 h 0 m	2.1 mm	-844.5 mm	95.8 mm	-376.2 mm	140.9 mm	-150.6 mm	-101.3°
11 h 30 m	116.2 mm	-978.6 mm	174.5 mm	-419.2 mm	200.8 mm	-167.7 mm	-96.0°
12 h 0 m	269.8 mm	-1179.9 mm	269.8 mm	-471.2 mm	269.8 mm	-184.1 mm	-90.0°
12 h 30 m	508.4 mm	-1519.7 mm	392.1 mm	-537.9 mm	352.0 mm	-199.7 mm	-83.2°
13 h 0 m	975.0 mm	-2225.1 mm	561.4 mm	-630.4 mm	453.6 mm	-214.8 mm	-75.5°
13 h 30 m	2497.7 mm	-4612.5 mm	822.6 mm	-773.1 mm	585.4 mm	-229.2 mm	-66.4°
14 h 0 m	---	---	1300.5 mm	-1034.0 mm	767.0 mm	-243.1 mm	-56.0°
14 h 30 m	---	---	2526.7 mm	-1703.6 mm	1040.2 mm	-256.1 mm	-44.2°
15 h 0 m	---	---	14487.6 mm	-8235.3 mm	1509.9 mm	-267.3 mm	-31.5°
15 h 30 m	---	---	---	---	2540.9 mm	-273.3 mm	-18.7°
16 h 0 m	---	---	---	---	6860.5 mm	-247.1 mm	-6.4°

Style 400m