$$\overline{\psi}_{\text{air,th}} = \arctan\left(\frac{\overline{w}\cdot\sin\left(\overline{\phi}_{\text{w}} + \phi_{\text{veh}}\right)}{\overline{v} + \overline{w}\cdot\cos\left(\overline{\phi}_{\text{w}} + \phi_{\text{veh}}\right)}\right)$$

Eq. 1037.534-2