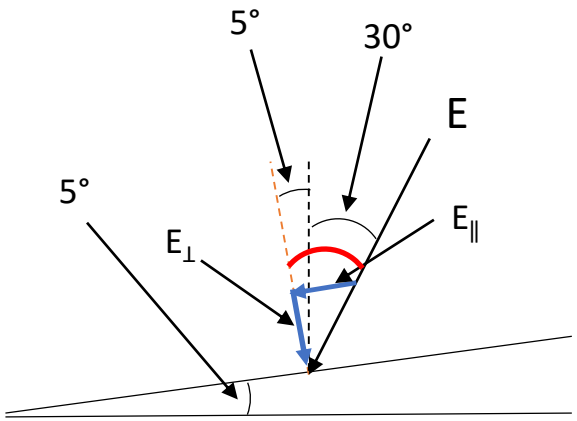
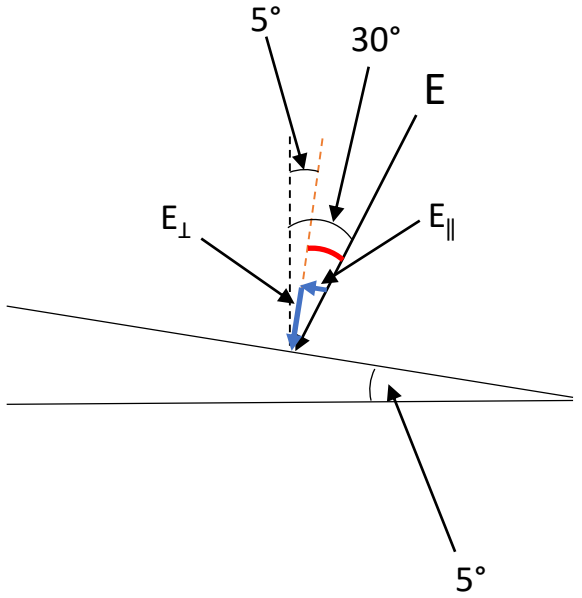
North Facing Slope



South Facing Slope



Normal to tilted surface

Vertical

$E_{\perp}$ Irradiance perpendicular to tilted surface - This is what you want!

$E_{\parallel}$ Irradiance parallel to tilted surface