

```
%Convert Wind Direction to Components
```

```
phi_eng = -site.WDir + 270;  
site.u = site.WSpd.*cosd(phi_eng);  
site.v = site.WSpd.*sind(phi_eng);
```

```
%Change components into direction using atan2; note if u and v are not  
in a met coordinate system, this needs to be modified by  
adding/subtracting the angle of the sonic.
```

```
WDirTest = mod((atan2(-site.u,-site.v)*180/pi),360);
```

See: <https://www.eol.ucar.edu/content/wind-direction-quick-reference>