```
// This file is available in electronic form at http://www.psa.es/sdg/sunpos.htm
#ifndef __SUNPOS_H
#define __SUNPOS_H
// Declaration of some constants
#define pi 3.14159265358979323846
#define twopi (2*pi)
#define rad (pi/180)
#define dEarthMeanRadius
#define dAstronomicalUnit
                                  6371.01 // In km
149597890 // In km
struct cTime
         int iYear;
int iMonth;
         int iDay;
double dHours;
         double dMinutes;
         double dSeconds;
};
struct cLocation
         double dLongitude;
         double dLatitude;
};
struct cSunCoordinates
         double dZenithAngle;
double dAzimuth;
};
void sunpos(cTime udtTime, cLocation udtLocation, cSunCoordinates *udtSunCoordinates);
#endif
```

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