$$\phi_1 = \text{Geodetic latitude of launch point (radians)}$$

$$= \phi_1(\text{DDD}) \cdot \frac{\pi}{180} \left(\text{radians per degree}\right)$$

$$\lambda_1 = \text{Longitude of launch point (DDD)}$$

$$= \lambda_1(\text{DDD}) \cdot \frac{\pi}{180} \left(\text{radians per degree}\right)$$

$$S = \text{Range from launch point (nm)}$$

$$= S(\text{DDD}) \cdot \frac{\pi}{180} \left(\text{radians per degree}\right)$$

$$\alpha_{12} = \text{Azimuth bearing from launch point (deg)}$$

$$= \alpha_{12}(\text{DDD}) \cdot \frac{\pi}{180} \left(\text{radians per degree}\right)$$