$$\text{relative mag of star X} \quad = \quad 0.0 \; - \; 2.5 \log_{10} \left(\frac{\text{intensity of X}}{\text{intensity of ref}} \right)$$

$$\text{percentage uncertainty} \quad = \quad \frac{\text{standard deviation}}{\text{mean}}$$

$$\text{phase } \phi \quad = \quad \left(\frac{t}{\text{Period}} \right) \; - \; \text{int} \left(\frac{t}{\text{Period}} \right)$$