Catalogue of Asteroid Polarization Curves
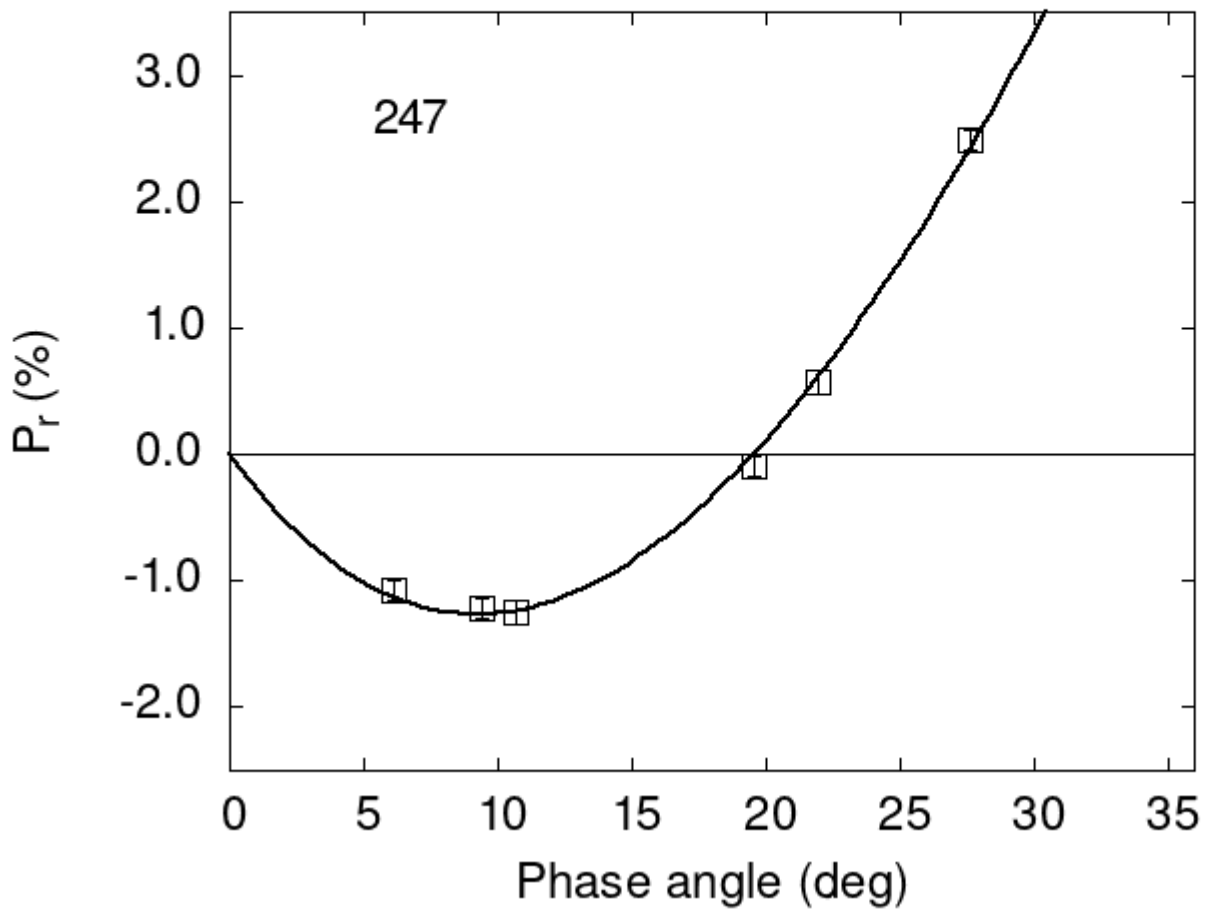
Gil-Hutton (2023)

Polarimetric data:

The columns list the object number, the phase angle (degrees), P_r (%), its error, the filter used, and the reference code.

```
247  6.15 -1.08 0.08 V f
247  9.39 -1.22 0.08 V f
247 10.71 -1.25 0.10 V f
247 19.54 -0.10 0.08 V f
247 21.97  0.57 0.10 V f
247 27.65  2.48 0.08 V f
```

Polarization Curve Parameters:

The polarimetric parameters were obtained fitting the observations to a polarization curve using the function:

$$P_r(\alpha) = Coe_1 \times \left[\exp\left(-\frac{\alpha}{Coe_2}\right) - 1 \right] + Coe_3 \times \alpha,$$

where α is the phase angle in degrees. The minimum of the polarization curve is identified by Pmin, Phmin is the phase angle where Pmin is reached, Ph0 is the inversion angle, and k is the slope of the polarization curve at Ph0.

```
#
#      Coe1     eCoe1     Coe2     eCoe2      Coe3     eCoe3
#    30.2495   1.0255   28.6982   0.8091    0.7641    0.0172
#
#     Phmin    err    Pmin     err   Ph0     err     k       err
#      9.23   1.29  -1.266   0.380  19.56   0.17  0.2310  0.0254
```