Catalogue of Asteroid Polarization Curves
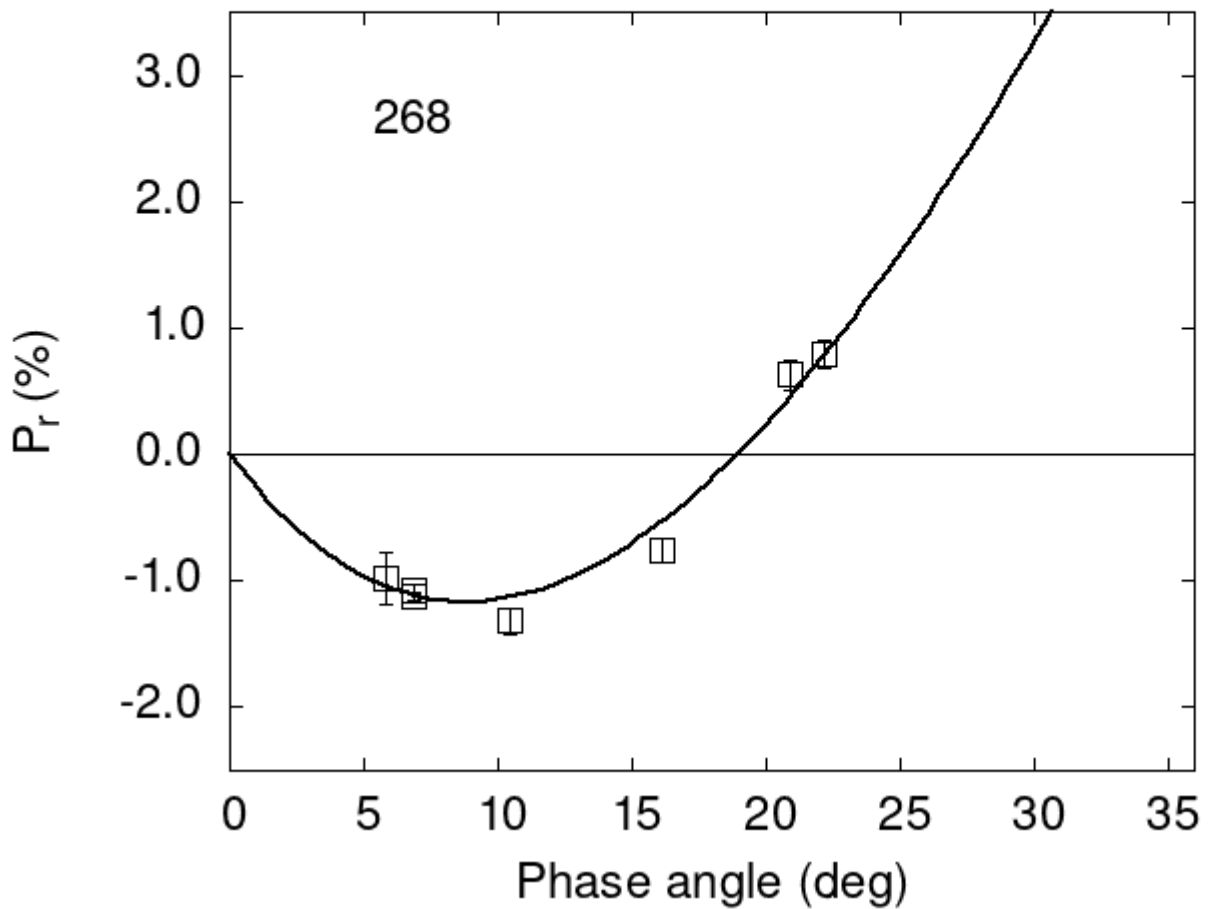
Gil-Hutton (2023)

Polarimetric data:

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

```
268 10.44 -1.32 0.11 V f
268 20.88  0.63 0.12 V f
268  6.90 -1.07 0.04 V a
268  6.90 -1.12 0.03 R a
268 16.10 -0.76 0.10 V a
268 22.20  0.79 0.11 V a
```

```
   268   5.80 -0.98 0.20 V a
```

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
#    19.8351   0.6979   22.6288   0.6080    0.5935   0.0139
#
#     Phmin    err    Pmin     err   Ph0     err    k       err
#      8.82   1.03  -1.168   0.293 18.97   0.19 0.2144 0.0193
```