Catalogue of Asteroid Polarization Curves
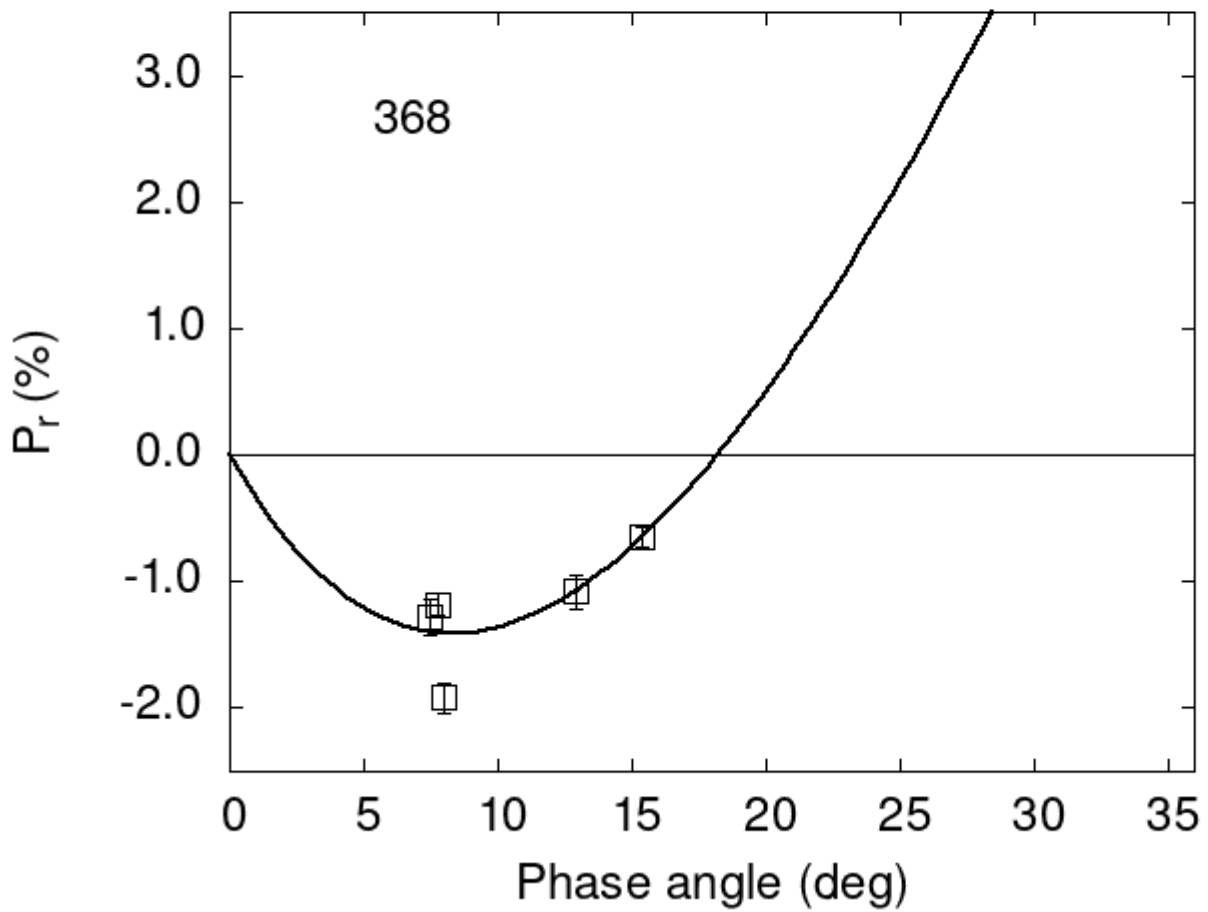
Gil-Hutton (2023)

Polarimetric data:

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

```
368  7.44 -1.28 0.14 V f
368  7.80 -1.18 0.09 V f
368 12.92 -1.08 0.13 V f
368  8.00 -1.92 0.12 V a
368 15.40 -0.65 0.08 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
#    16.2188    0.5916   16.9445    0.9740    0.5864    0.0271
#
#     Phmin    err    Pmin     err  Ph0      err    k       err
#      8.30   1.12  -1.414   0.426 18.21   0.15 0.2596 0.0297
```