Catalogue of Asteroid Polarization Curves
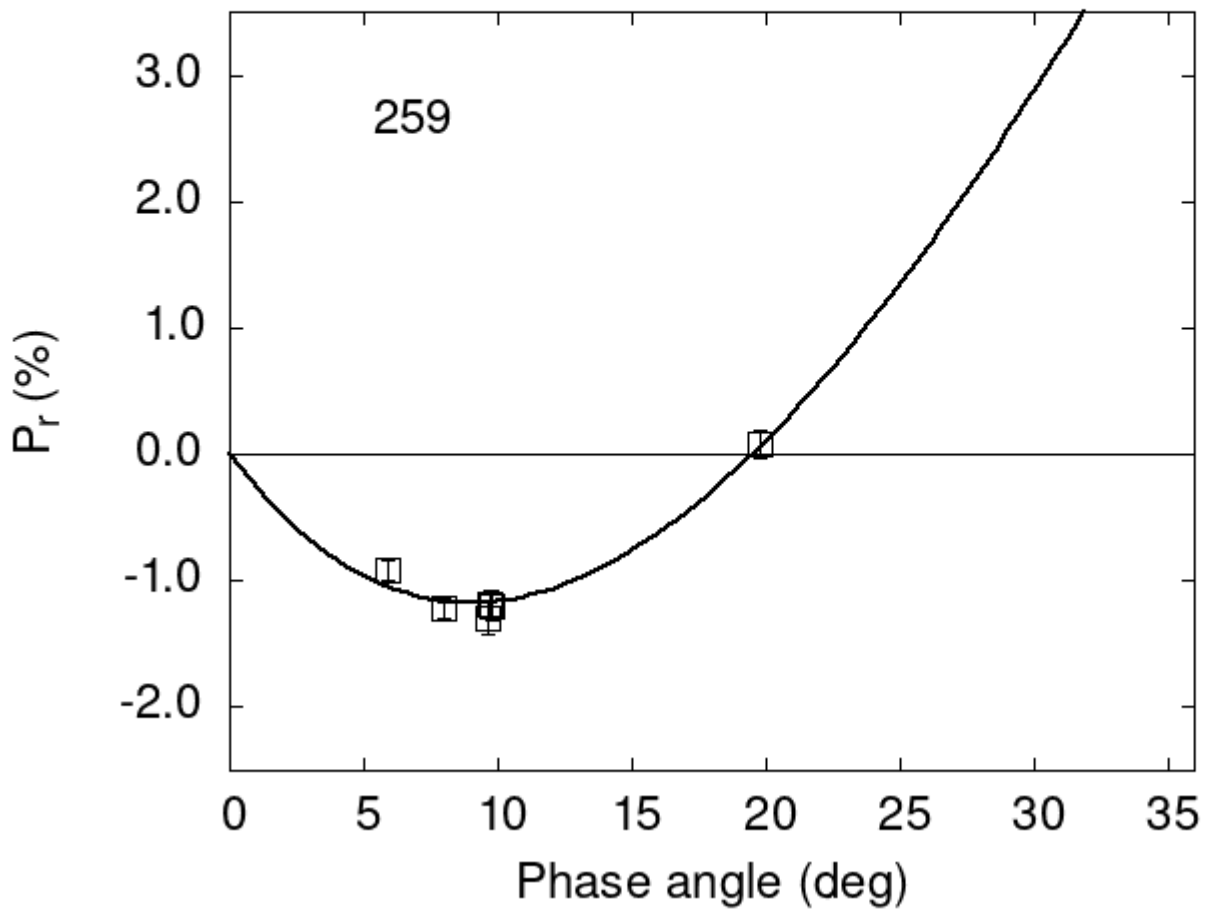
Gil-Hutton (2023)

Polarimetric data:

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

```
259   5.89 -0.91 0.08 V f
259   9.73 -1.19 0.11 V f
259  19.77  0.08 0.11 V f
259   9.60 -1.29 0.13 V a
259   9.80 -1.20 0.12 V a
259   8.00 -1.22 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
#    16.5977   0.7108   20.7662    0.7508    0.5180    0.0237
#
#     Phmin    err    Pmin     err   Ph0    err    k       err
#      9.01   1.37  -1.175   0.369  19.52   0.19 0.2058 0.0272
```