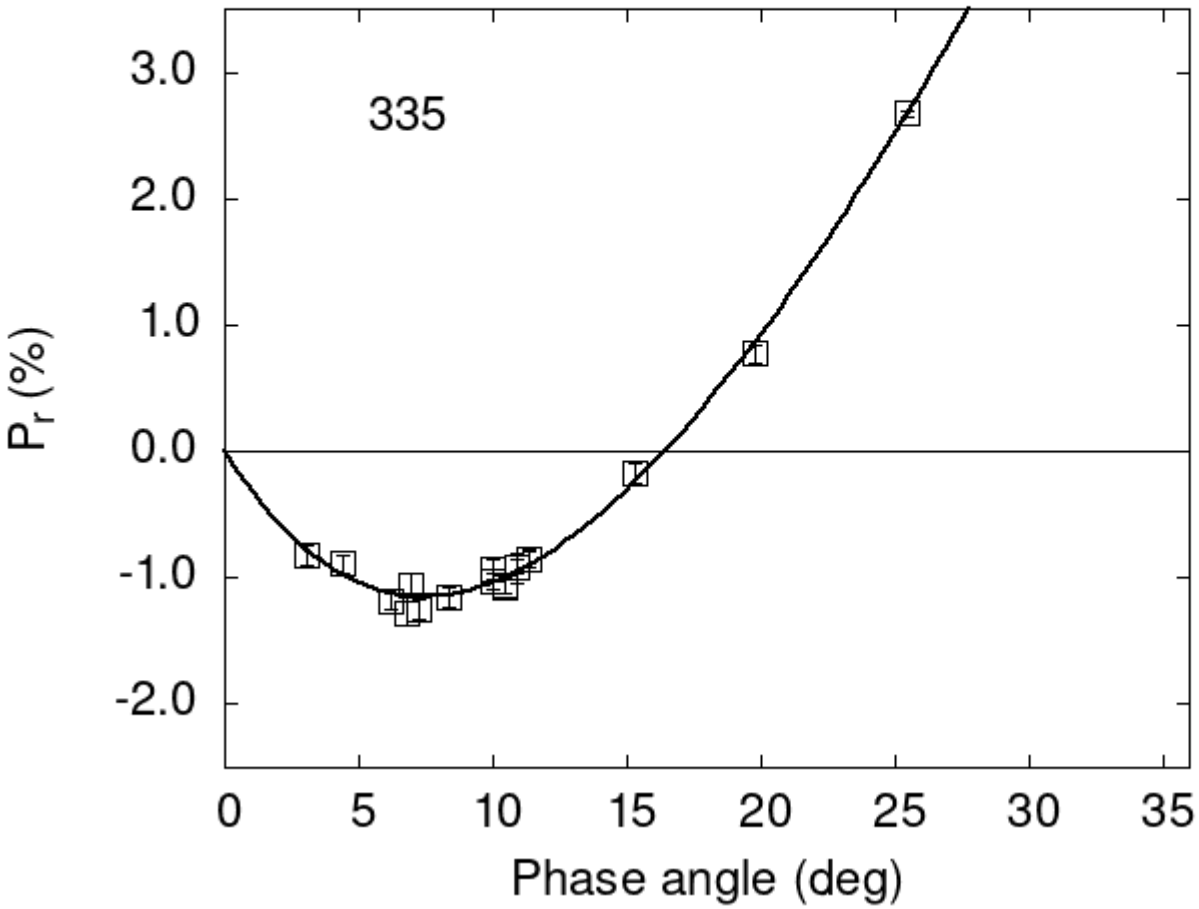
Catalogue of Asteroid Polarization Curves

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.

```
335  3.08 -0.82 0.08 V f
335  6.82 -1.28 0.10 V f
335  6.91 -1.06 0.10 V f
335  7.26 -1.25 0.08 V f
335 25.50  2.67 0.02 V f
335 19.80  0.77 0.07 V a
```

```
335 11.32 -0.85 0.06 V a
335 11.32 -0.85 0.07 R a
335 10.90 -0.92 0.12 V a
335 10.90 -0.91 0.06 R a
335 10.47 -1.07 0.06 V a
335 10.47 -1.06 0.07 R a
335 10.03 -0.93 0.08 V a
335 10.03 -1.03 0.06 R a
335 15.30 -0.17 0.08 V a
335  4.40 -0.89 0.07 V a
335  8.40 -1.15 0.08 V a
335  6.20 -1.19 0.06 V a
335 25.50  2.67 0.02 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
#   11.3355   0.5023  13.8651   0.4820   0.4787   0.0123
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      7.42  0.74 -1.146  0.259 16.44  0.17 0.2288 0.0166
```