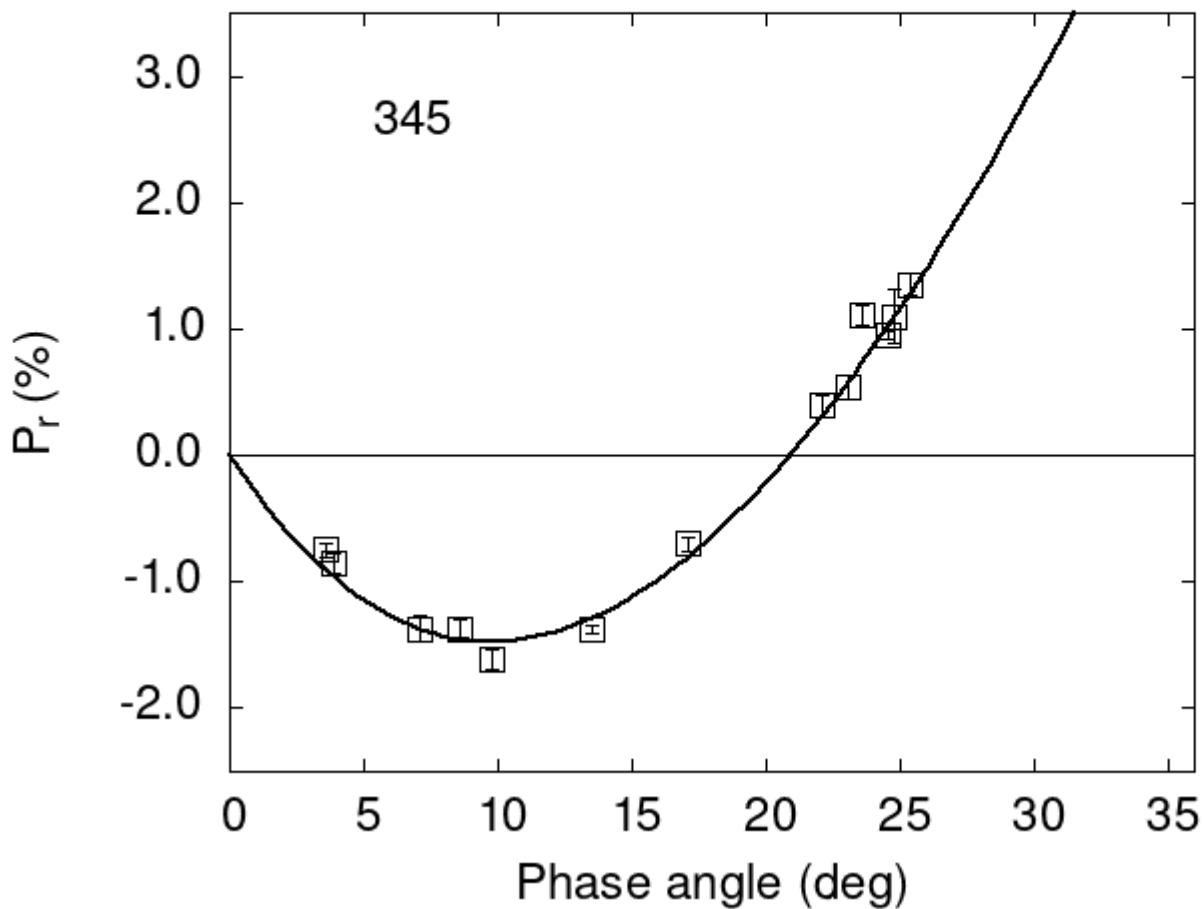


Catalogue of Asteroid Polarization Curves

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.

| | | | | | |
|-----|-------|-------|------|---|---|
| 345 | 3.85 | -0.86 | 0.08 | V | f |
| 345 | 7.10 | -1.37 | 0.10 | V | f |
| 345 | 8.61 | -1.38 | 0.09 | V | f |
| 345 | 22.13 | 0.39 | 0.09 | V | f |
| 345 | 23.06 | 0.54 | 0.10 | V | f |
| 345 | 24.79 | 1.10 | 0.21 | V | f |

```

345 25.36  1.35 0.09 V f
345 23.60  1.11 0.08 V f
345 17.10 -0.70 0.06 V a
345 13.50 -1.37 0.03 V a
345 3.60 -0.75 0.05 V a
345 24.60  0.95 0.03 V a
345 9.80  -1.62 0.08 V h

```

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
# 27.7602  0.6142  26.5964  0.4587  0.7224  0.0105
#
#      Phmin     err     Pmin     err   Ph0     err      k      err
#      9.79   0.76 -1.476  0.247 20.93  0.16 0.2472 0.0150

```