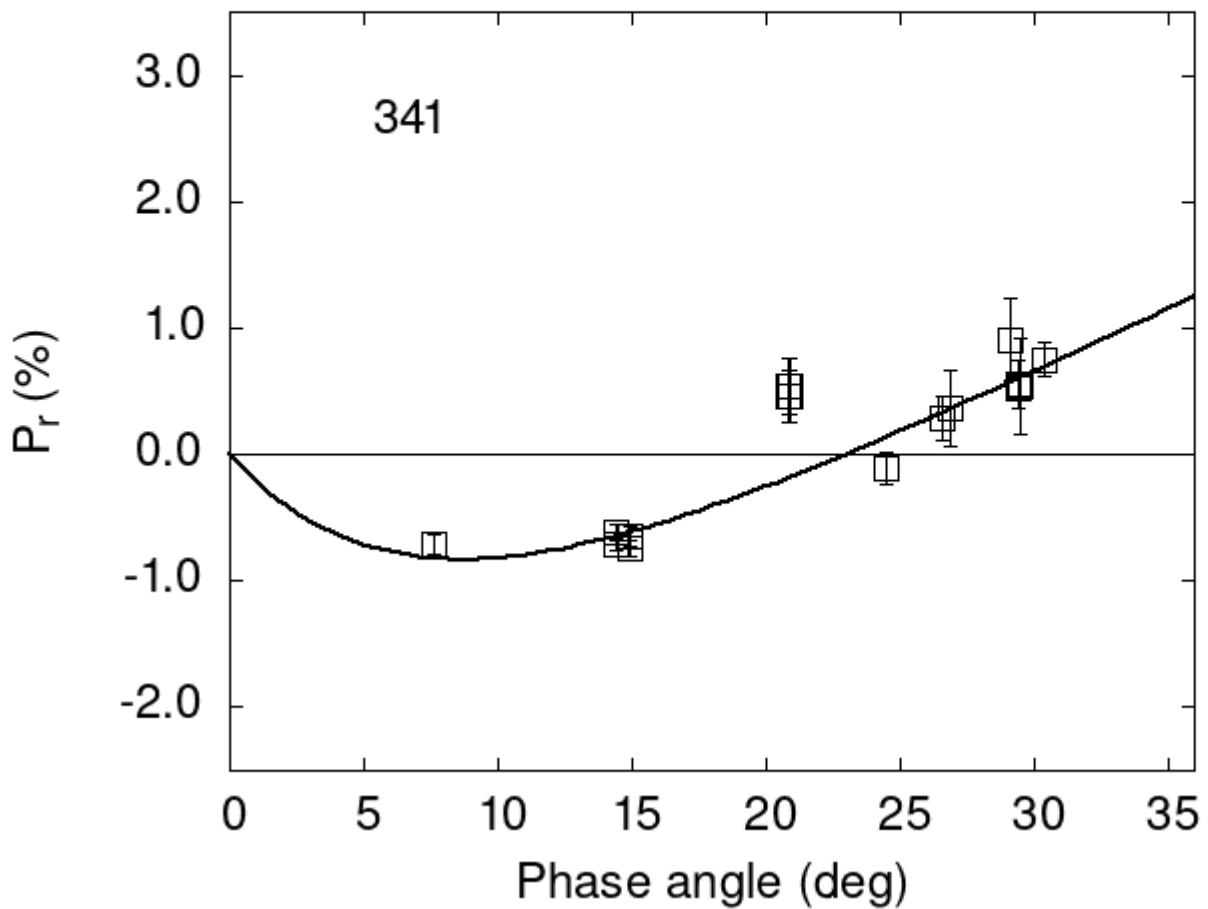


Catalogue of Asteroid Polarization Curves

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.

341	26.62	0.29	0.17	V	f
341	30.43	0.75	0.13	V	f
341	20.88	0.54	0.22	V	f
341	20.88	0.46	0.20	R	f
341	29.11	0.91	0.32	R	f
341	29.42	0.55	0.19	V	f

```

341 29.42  0.53 0.09 R f
341 26.89  0.37 0.30 R a
341 29.52  0.54 0.38 R a
341 29.11  0.91 0.32 R a
341 14.42 -0.71 0.05 V a
341 14.42 -0.62 0.06 R a
341 14.94 -0.74 0.06 V a
341 14.94 -0.65 0.08 R a
341 20.87  0.54 0.22 V b
341 20.87  0.46 0.20 R b
341 29.42  0.55 0.19 V b
341 29.42  0.53 0.09 R b
341  7.60 -0.71 0.08 V h
341 24.50 -0.11 0.13 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
#      2.4658    0.3438    7.2349    1.5222    0.1026    0.0105
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      8.68    1.29 -0.832  0.318 23.03  0.45 0.0885 0.0125

```