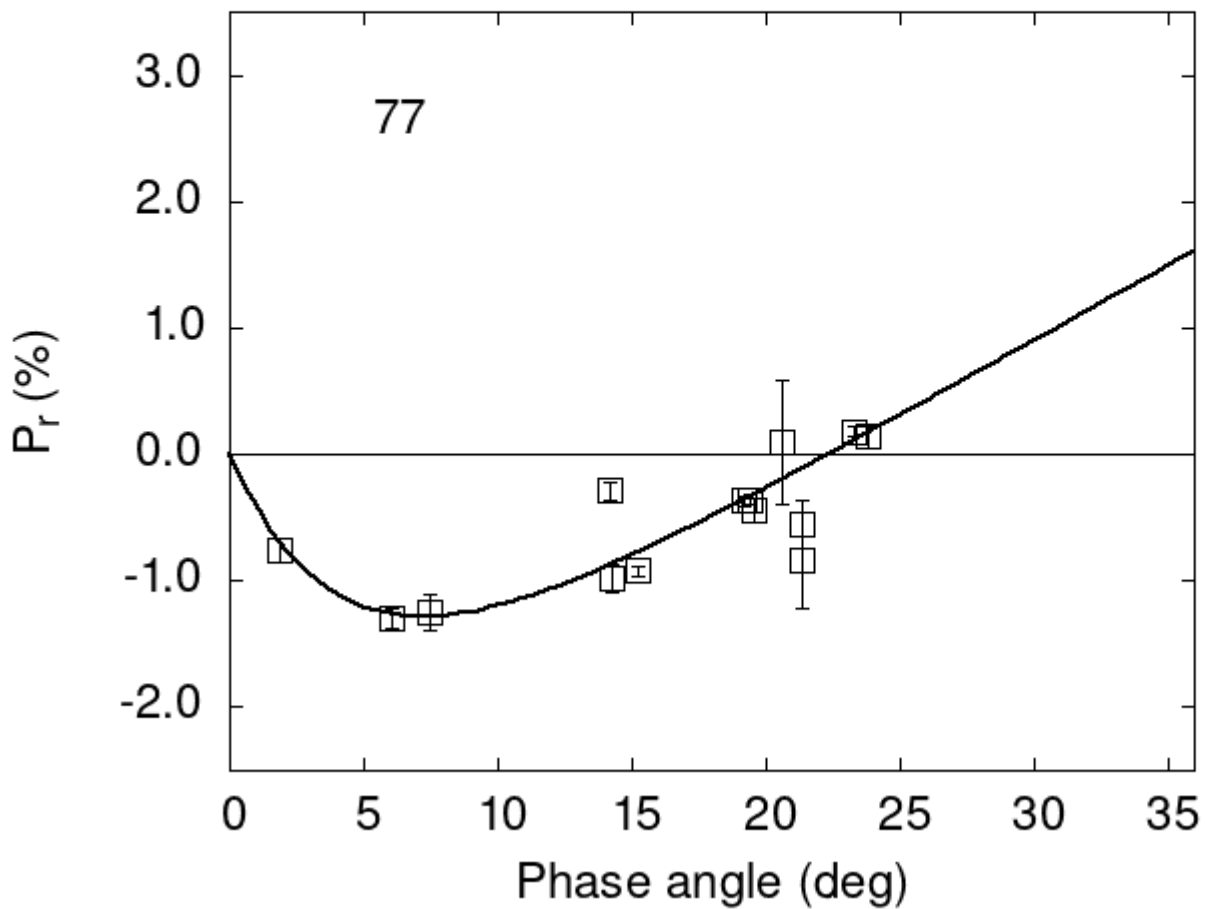


Catalogue of Asteroid Polarization Curves

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.

77	23.30	0.18	0.04	R	d
77	6.04	-1.29	0.08	V	f
77	19.57	-0.44	0.09	V	f
77	20.62	0.09	0.49	V	f
77	23.82	0.14	0.09	V	f
77	21.33	-0.84	0.38	V	a

```

77 21.33 -0.55 0.19 R a
77 15.20 -0.92 0.04 V a
77 7.50 -1.25 0.14 V a
77 19.20 -0.37 0.04 V a
77 19.40 -0.36 0.04 V a
77 14.20 -0.29 0.07 V a
77 1.90 -0.76 0.10 V a
77 14.30 -0.98 0.11 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
#      2.6789    0.1751    4.4946    0.4545    0.1190    0.0081
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      7.24    0.51 -1.282    0.175 22.33    0.35 0.1149 0.0083

```