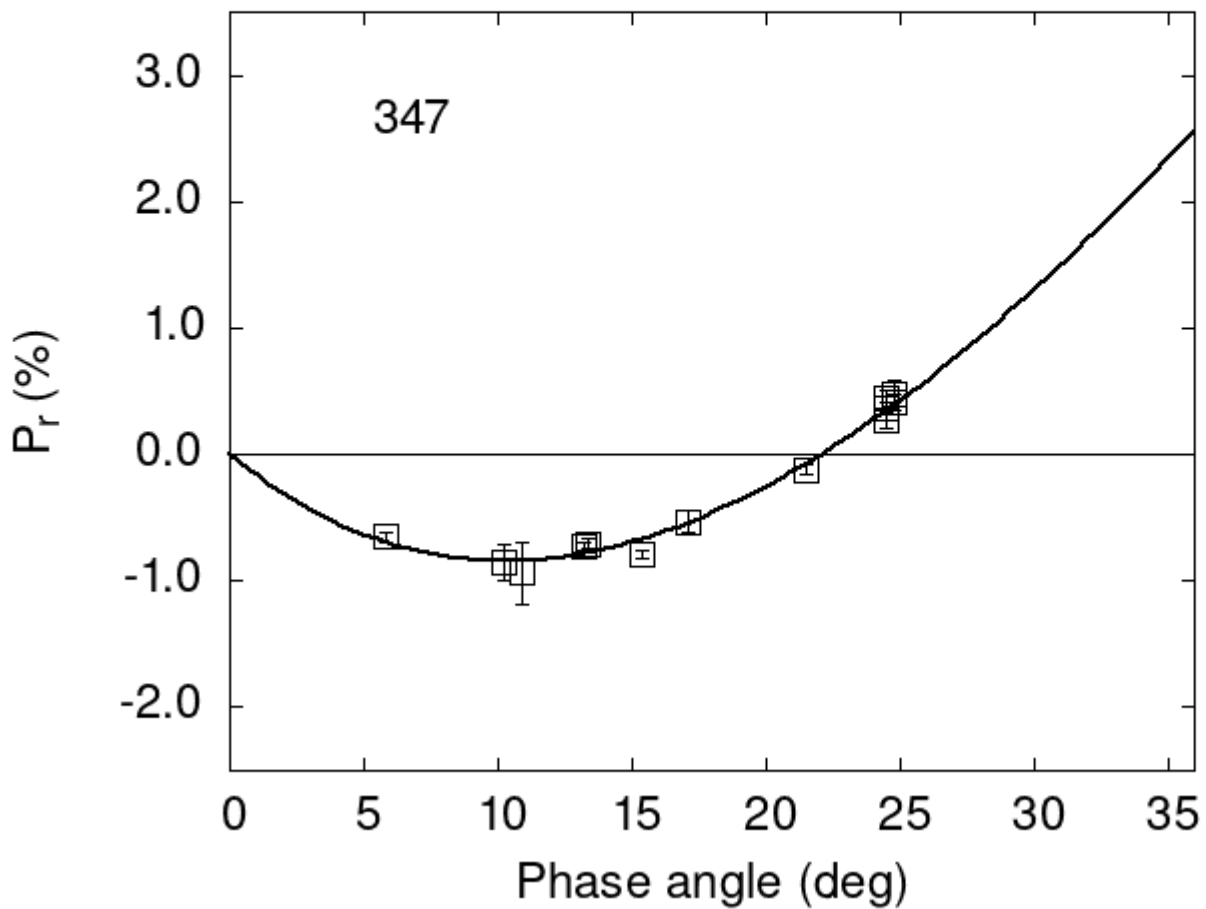


Catalogue of Asteroid Polarization Curves

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.

```
347 24.80  0.48 0.10 V d
347 24.80  0.41 0.06 R d
347 24.50  0.44 0.07 R d
347 24.50  0.27 0.07 V d
347 24.50  0.37 0.04 R d
347 17.13 -0.53 0.09 V f
```

```

347 10.20 -0.85 0.14 V a
347 10.90 -0.94 0.24 V a
347 21.50 -0.12 0.04 V a
347 5.80 -0.65 0.04 V a
347 13.20 -0.73 0.03 V a
347 13.40 -0.71 0.04 V a
347 15.40 -0.79 0.03 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
# 13.8879  0.4531  25.8862  0.6448  0.3607  0.0075
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
# 10.27  1.08 -0.843  0.191  22.10  0.30  0.1323  0.0106

```