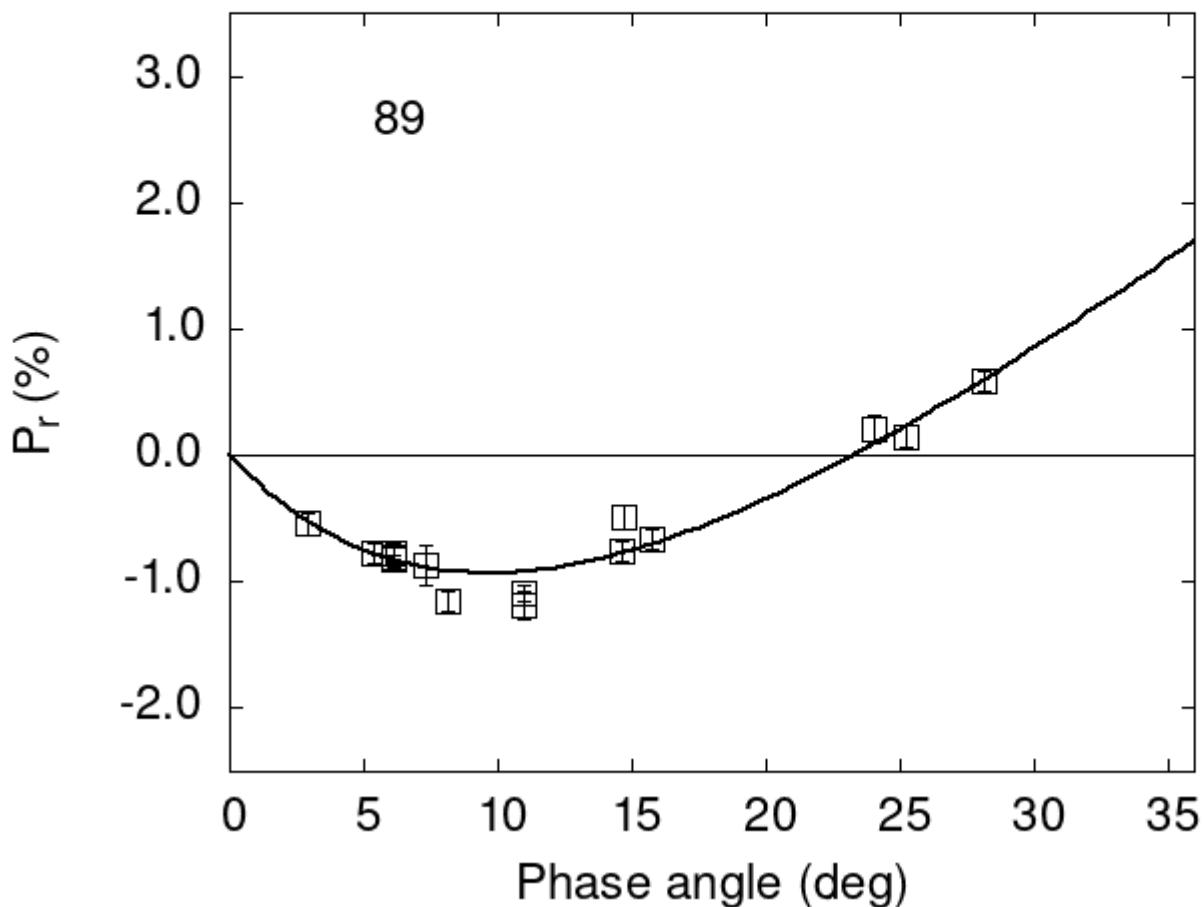


Catalogue of Asteroid Polarization Curves

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.

89	5.40	-0.77	0.08	V	f
89	6.09	-0.78	0.08	V	f
89	6.09	-0.81	0.08	R	f
89	8.13	-1.15	0.08	V	f
89	14.66	-0.76	0.08	V	f
89	15.78	-0.67	0.08	V	f

```

89 24.03  0.21 0.11 V f
89 25.21  0.15 0.09 V f
89 28.19  0.58 0.08 V f
89 7.32   -0.87 0.16 G a
89 2.89   -0.54 0.09 G a
89 14.70  -0.49 0.09 V a
89 11.00  -1.18 0.11 V a
89 11.00  -1.09 0.07 R a
89 6.09   -0.81 0.02 V a
89 6.09   -0.82 0.03 R 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
# 4.2679  0.6406  11.0627  1.3508  0.1609  0.0184
#
#      Phmin     err     Pmin     err    Ph0     err      k      err
#      9.68   2.09 -0.931  0.455 23.28  0.35 0.1139 0.0207

```