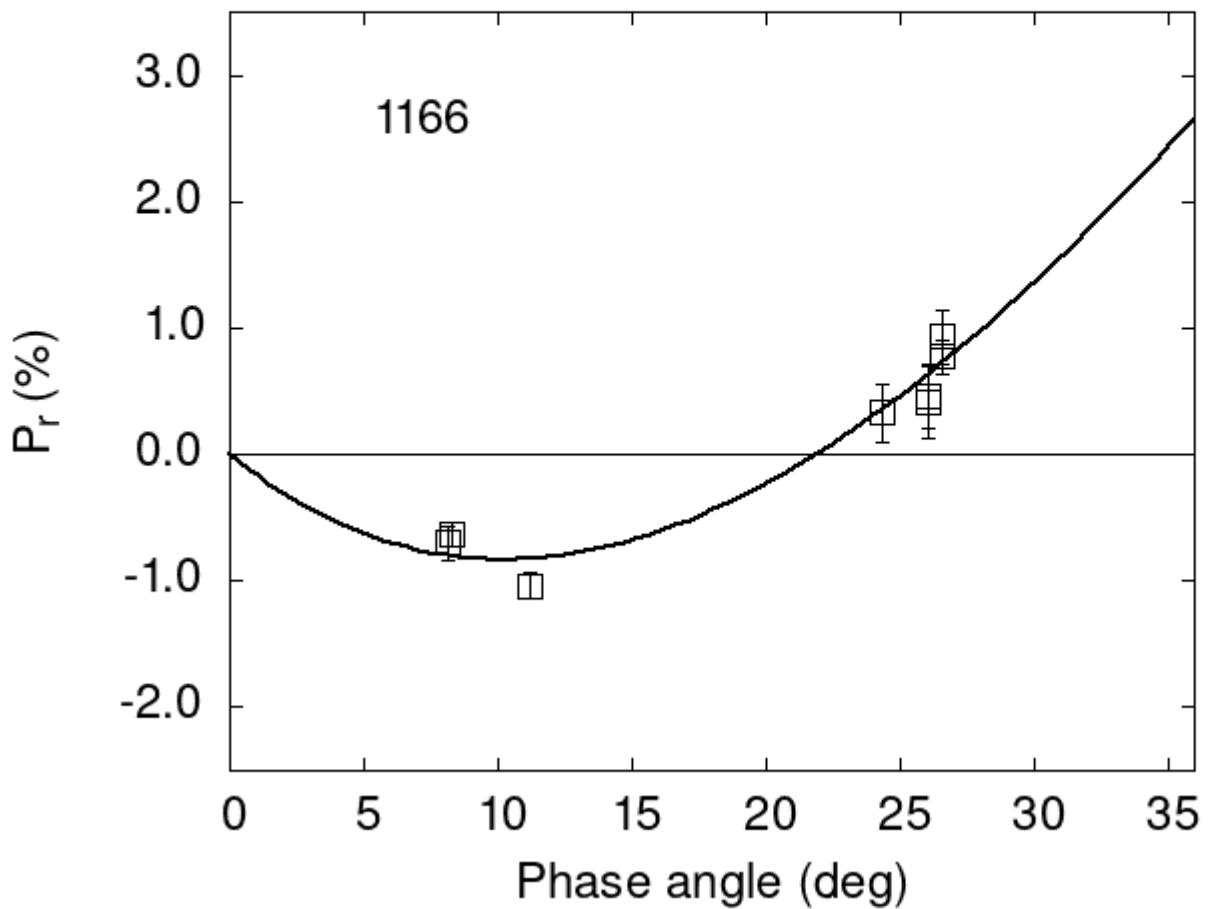


Catalogue of Asteroid Polarization Curves

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.

1166	8.16	-0.70	0.13	V	f
1166	8.26	-0.63	0.10	V	f
1166	11.20	-1.04	0.10	V	f
1166	24.37	0.33	0.23	V	f
1166	26.03	0.46	0.26	V	a
1166	26.03	0.41	0.28	R	a

1166 26.62 0.93 0.21 V a
 1166 26.62 0.77 0.14 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
# 15.6003    0.6162    27.7812    1.3040    0.3884    0.0148
#
#      Phmin    err    Pmin      err    Ph0      err      k      err
#      10.24    1.73 -0.832    0.306    21.89    0.30 0.1331 0.0181
```