Catalogue of Asteroid Polarization Curves
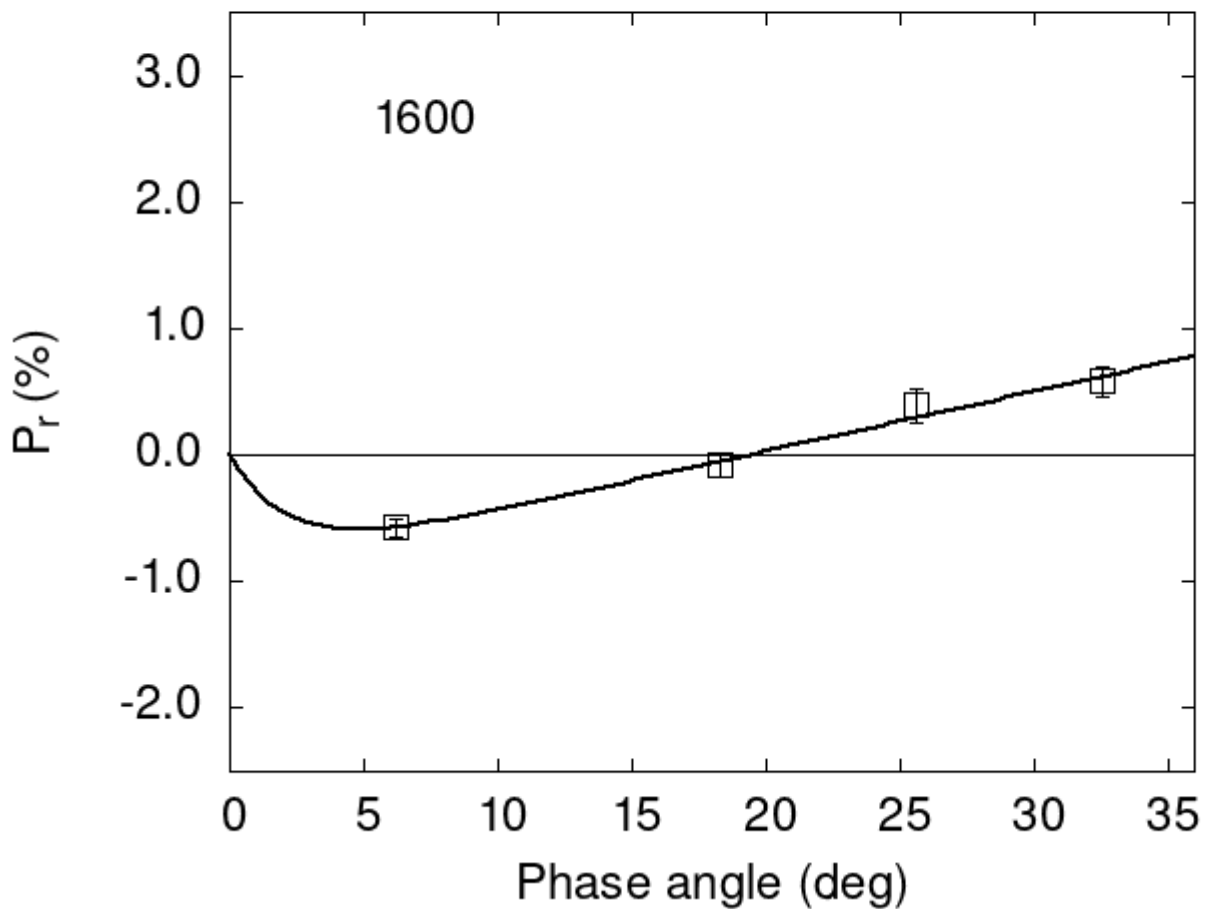
Gil-Hutton (2023)

Polarimetric data:

The columns list the object number, the phase angle (degrees), P_r (%), its error, the filter used, and the reference code.

```
1600 18.30 -0.08 0.10 V a
1600 25.60  0.39 0.14 V a
1600 32.60  0.58 0.12 V a
1600  6.20 -0.57 0.07 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
#    0.9146    0.3373    2.1773    2.1470    0.0470    0.0115
#
#     Phmin    err    Pmin    err   Ph0     err    k       err
#      4.77   2.73  -0.588  0.376 19.44   0.85 0.0469 0.0115
```