# Compass Calibration Log 

Aircraft Type and Mark
Aircraft Serial No
Work Order SNOW / Date


Fourier/Residual Deviation Curve


Fourier Analysis (to be completed for refined swings only)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|c} \text { Comp } \\ \text { Hdg } \end{array}$ | $\begin{aligned} & \text { Dev } \\ & \text { Obs } \end{aligned}$ | Dev Calc | Diff | Diff Sqr'd | A | $\begin{gathered} \mathrm{d}_{0} \\ (\mathrm{Col} .2) \end{gathered}$ | B | $\begin{gathered} \mathrm{Sin} \\ \theta \end{gathered}$ | $\begin{gathered} \mathrm{d}_{0} \\ \text { (Col.2) } \end{gathered}$ | C | $\begin{gathered} \text { Cos } \\ \theta \end{gathered}$ | $\left.\begin{array}{c} \mathrm{d}_{0} \\ (\mathrm{Col} .2 \end{array}\right)$ | Diff | $\begin{aligned} & \mathrm{Sin} \\ & 2 \theta \end{aligned}$ | $\begin{gathered} \mathrm{d}_{0} \\ (\mathrm{Col} .2) \end{gathered}$ | E | $\begin{gathered} \text { Cos } \\ 2 \theta \end{gathered}$ |
| $\theta$ | $\pm \mathrm{d}_{\text {。 }}$ | $\pm d_{c}$ | $\mathrm{d}_{0}-\mathrm{d}_{\mathrm{c}}$ | $\begin{aligned} & \text { Col } 4 \\ & \text { Sqr'd } \end{aligned}$ |  | $X \operatorname{Sin} \theta$ |  |  | $X \operatorname{Cos} \theta$ |  |  | $X \operatorname{Sin} 2 \theta$ |  |  | $X \operatorname{Cos} 2 \theta$ |  |  |
| 360 |  |  |  |  |  |  |  | 0 |  |  | +1.0 |  |  | 0 |  |  | +1.0 |
| 030 |  |  |  |  |  |  |  | +0.5 |  |  | +0.87 |  |  | +0.87 |  |  | +0.5 |
| 060 |  |  |  |  |  |  |  | +0.87 |  |  | +0.5 |  |  | +0.87 |  |  | -0.5 |
| 090 |  |  |  |  |  |  |  | +1.0 |  |  | 0 |  |  | 0 |  |  | -1.0 |
| 120 |  |  |  |  |  |  |  | +0.87 |  |  | -0.5 |  |  | -0.87 |  |  | -0.5 |
| 150 |  |  |  |  |  |  |  | +0.5 |  |  | - 0.87 |  |  | - 0.87 |  |  | +0.5 |
| 180 |  |  |  |  |  |  |  | 0 |  |  | - 1.0 |  |  | 0 |  |  | +1.0 |
| 210 |  |  |  |  |  |  |  | -0.5 |  |  | -0.87 |  |  | +0.87 |  |  | +0.5 |
| 240 |  |  |  |  |  |  |  | -0.87 |  |  | -0.5 |  |  | +0.87 |  |  | -0.5 |
| 270 |  |  |  |  |  |  |  | -1.0 |  |  | 0 |  |  | 0 |  |  | -1.0 |
| 300 |  |  |  |  |  |  |  | -0.87 |  |  | +0.5 |  |  | -0.87 |  |  | -0.5 |
| 330 |  |  |  |  |  |  |  | -0.5 |  |  | +0.87 |  |  | - 0.87 |  |  | +0.5 |
| Sums |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Divi. | 12 |  |  |  |  | 6 |  |  | 6 |  |  | 6 |  |  | 6 |  |  |
| Coeff. | A = $\pm$ |  |  |  |  | $B= \pm$ |  |  | $C= \pm$ |  |  | $\mathrm{D}= \pm$ |  |  | $\mathrm{E}= \pm$ |  |  |

Analysis Results:
$\qquad$ 50\% A Error $\qquad$ 50\% B - E Error $\qquad$
using up deviation curve on reverse of sheet 1 using values of calculated deviation from column 3.

Comments:

## Calculated Coefficients:

$\qquad$ B $\qquad$ C $\qquad$ D $\qquad$ E $\qquad$

## Checked by:

Signature:

