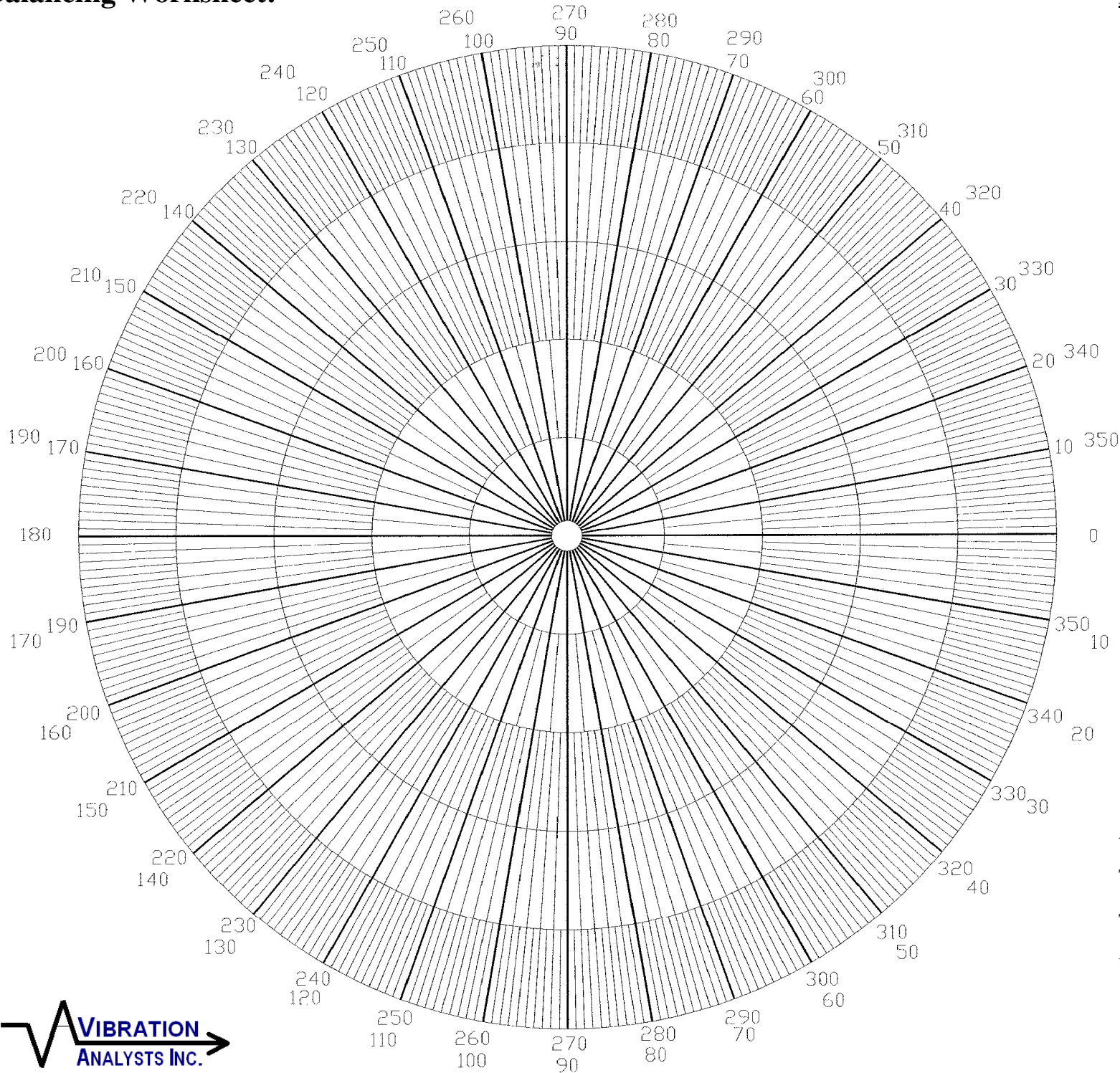


Balancing Worksheet:



Balancing Instructions:

1. Use outer ring of numbers for CCW; inner ring for CW components. Note: phase angle increases against rotation.
2. Collect as-found data - label it Vector-1 on the graph
3. Add trial weight
4. Show trial weight location on graph.
5. Collect trial weight data and label it Vector-2.
6. Draw 3rd vector **from** Vector '1' **to** Vector '2'. Label it Vector-3.
7. Draw Vector-4 starting at the origin and **parallel** to Vector-3.
8. Draw rotating vector **from** Vector '4' **to** backside of Vector '1'. Label it Vector-5. Use the shortest path. This is the angle and direction the correct weight goes with respect to the trial weight (remove trial wt). Refer to Vector-6.
9. Determine correct weight using the formula below and a fine scale ruler. **Do NOT** use the graph's units.

$$\frac{\text{Length of Vector '1' x Trial wt}}{\text{Length of Vector '3'}}$$

10. Remove trial wt and install the correct weight.

As found: _____ mils @ _____ deg.

Trial Wt: _____ mils @ _____ deg.

Trial Wt Location: _____ deg.

Units of wt used: grams / oz / lbs

