

## Morton Micro Guide Graph

This guide has been designed to aid you in proper placement of Micro & Concept Guides. It utilizes angle to the tangent of the blank curve to achieve this. Unlike other guide placement tools this will take into consideration the action of your blank to properly place guides in the range that your blank flexes the most and requires more support. While this tool was designed for placement of Micros and Concept-type guides, it distributes the guides on virtually any blank to achieve higher performance and greater protection.

The **blue** intersecting lines are used for placement of **Micro** guides.

The **red** intersecting lines are used for placement of **Concept** guides.

1. The first step is to load your blank at a 90 degree angle to the axis it was built on. This is achieved by attaching the draw string and using it to pull the tip towards the butt until the tip of the blank is at a 90 degree angle to the butt. The drawstring is made with two different size swivels attached through the loop area with a hook on the opposite end. First you use ¼" masking tape and make a small buildup (usually 4 or 5 plies) about 1/2" from the tip of the blank. Then slide the swivel that most closely fits the tip diameter over the tip, and make another buildup at the tip to keep the swivel from coming off. Then with the opposite end place the hook in the butt section of the blank and slide the knot holding the loop down until it pulls the tip to a 90 degree angle to the butt. You can use a "T" square or some type of angle to check this.
2. The second step is to locate the arc on the guide graph that most closely matches the arc created by loading your blank. When you have located this arc (sometimes you will find that this arc is in between two others) place the tip on the vertical line on the right side of the graph at the position where the arc intersects it. Then holding the tip in place here slide the butt over until it aligns with a vertical line below the arc.
3. The third step will be to follow the blank down from the tip and mark each spot where a blue line intersects (if for Micro Guides) or where a Red line intersects (if for concept spacing).
4. The final step will be to place any final guides on the blank depending upon length. This means that you will need to measure the distance between the last two guides and then multiply that distance by "1.2" to get the placement of the next guide. You continue to do this until you have the butt guide close to the place that you intend for it to be placed. As a general rule on a micro guide rod the butt guide is going to be placed 15" – 17" from the face of the spool.