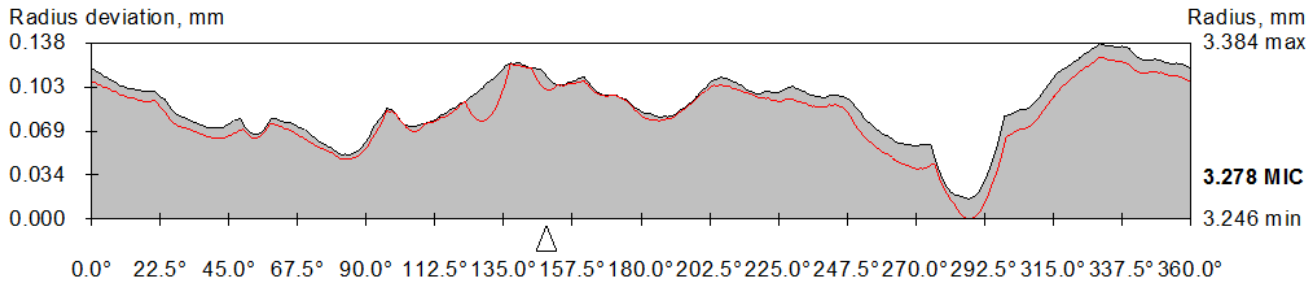
Radius variation plot

1. Introduction

Radius variation plot graphics is used in most reports for stone symmetry indication:



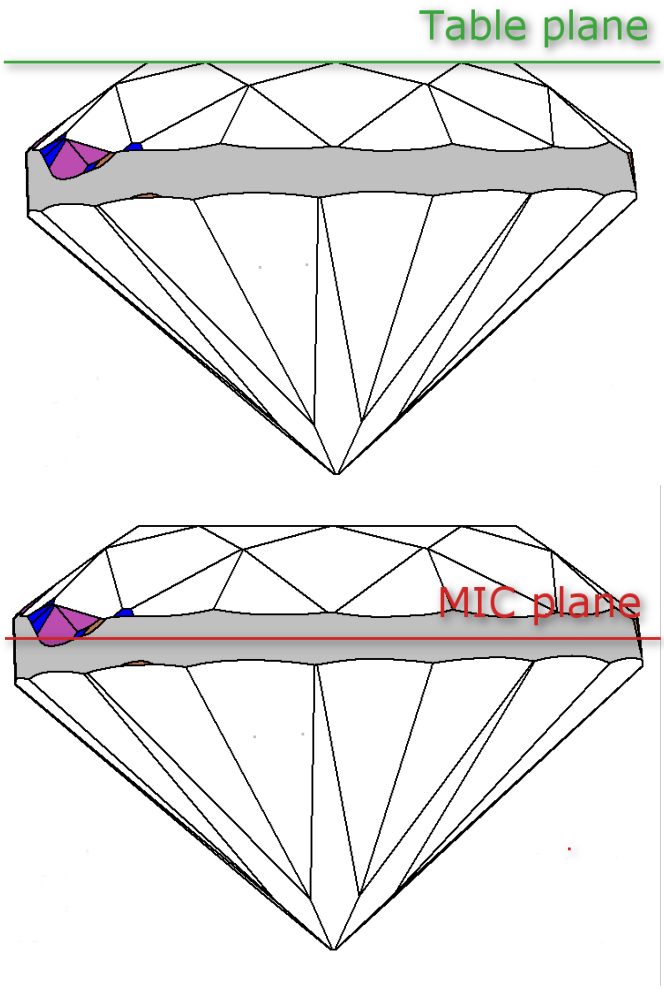
On X axis azimuth is shown.

On Y axis deviation is shown.

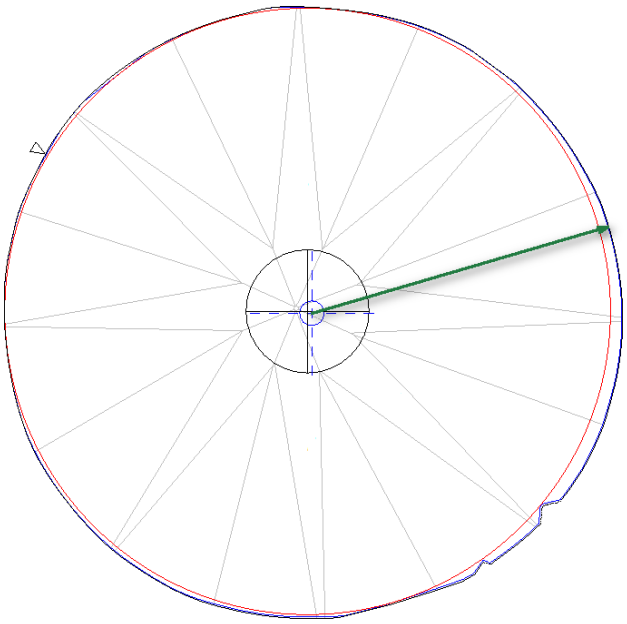
MIC is the radius of the maximum circle that may be inscribed.

2. Red curve line calculations

1. Draw plane parallel to table plane through MIC center:



2. In that plane distance from Girdle center mass to diamond out-line calculated for all azimuth.

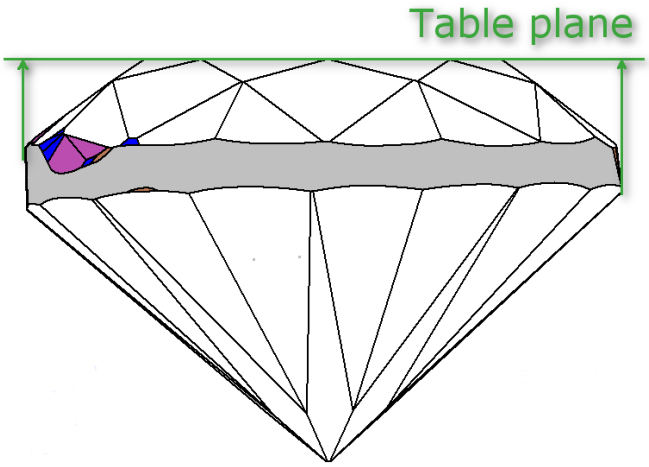


	MIC is drawn in red color
	indicates MIC center
	indicated Girdle center mass (model center)
	Diamond out-line is drown in blue color

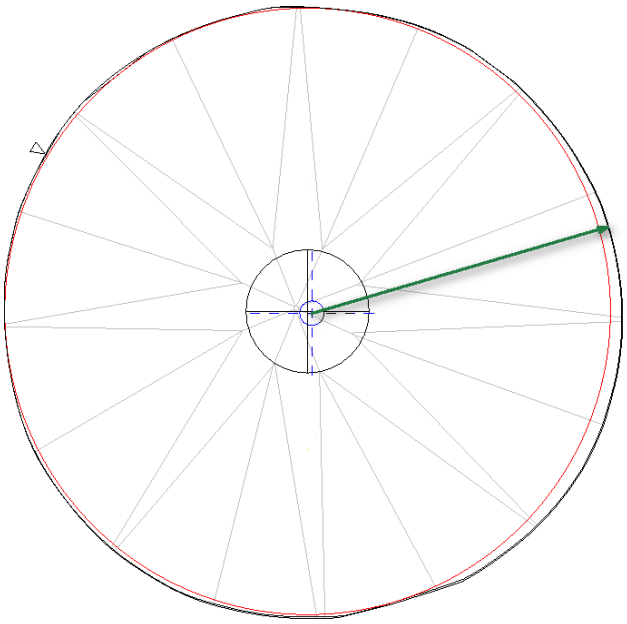
3. Minimum radius from step 2 is selected.
4. Graphics is drawn as deviation from minimum radius.

3. Black curve line calculations

1. Model and Girdle center mass are projected on table plane:



2. Distance from projected Girdle center mass to projection out-line calculated for all azimuth.



	MIC is drawn in red color
	indicates MIC center
	indicated Girdle center mass (model center)
	Projection out-line is drown in black color

3. Graphics is drawn as deviation from minimum radius from chapter 2 step 3

4. Notes

- If you have any question, please ask it in comments or send e-mail to developer.
- If you find mistake, please describe it in comments or send e-mail to developer.
- If you use **report.dll 2.6.5.1 or later** MIC center instead of Girdle center mass will be used for distance calculations as center.