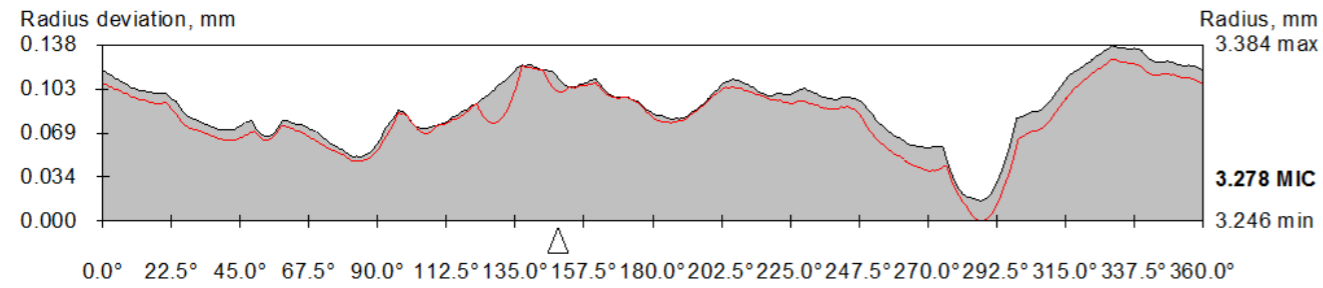


# Radius variation plot

## 1. Introduction

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



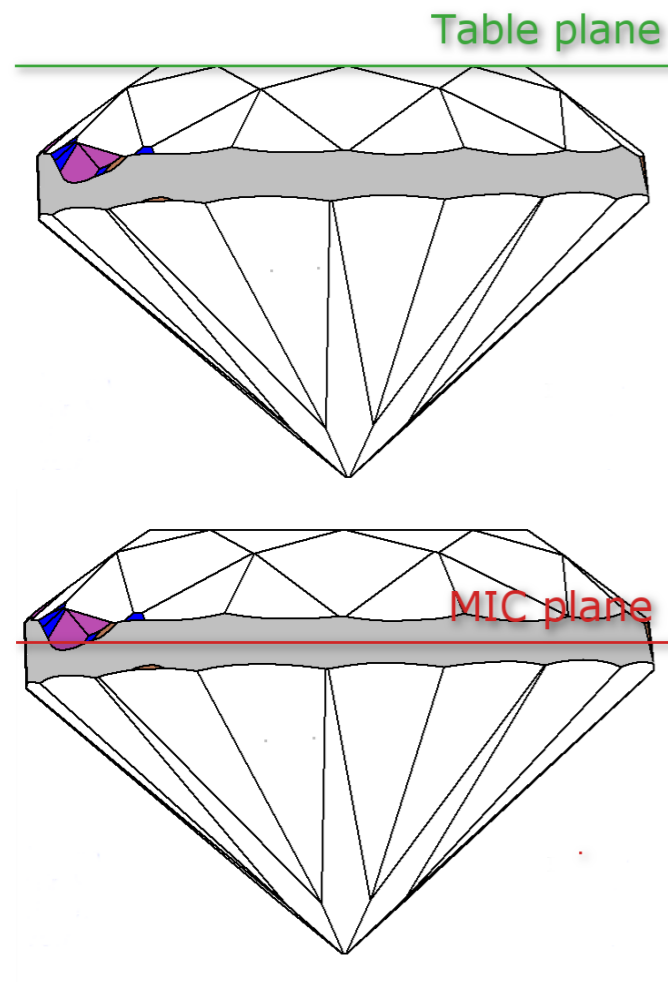
On X axis azimuth is shown.

On Y axis deviation is shown.

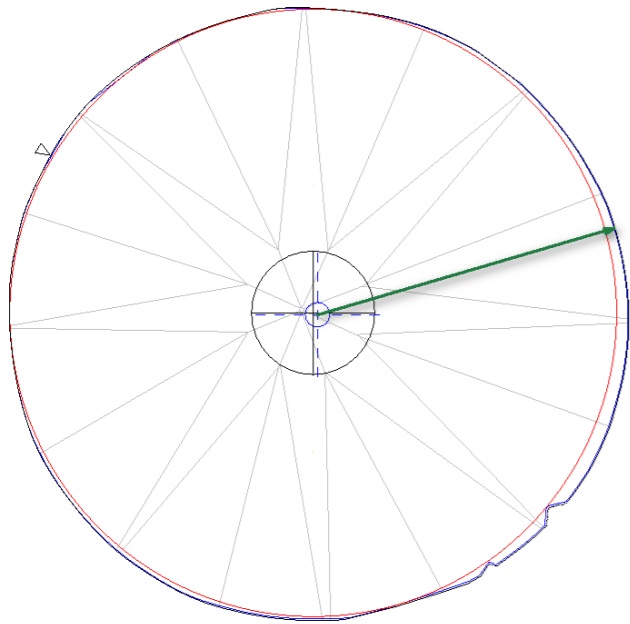
MIC is the radius of the maximum circle that may be inscribed.





## 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.

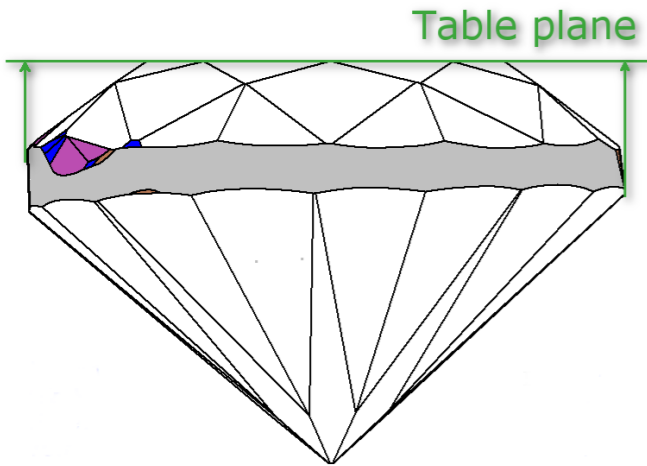


	MIC is drawn in red color
	indicates MIC center
	indicated Girdle center mass (model center)
	Diamond out-line is drawn in blue color

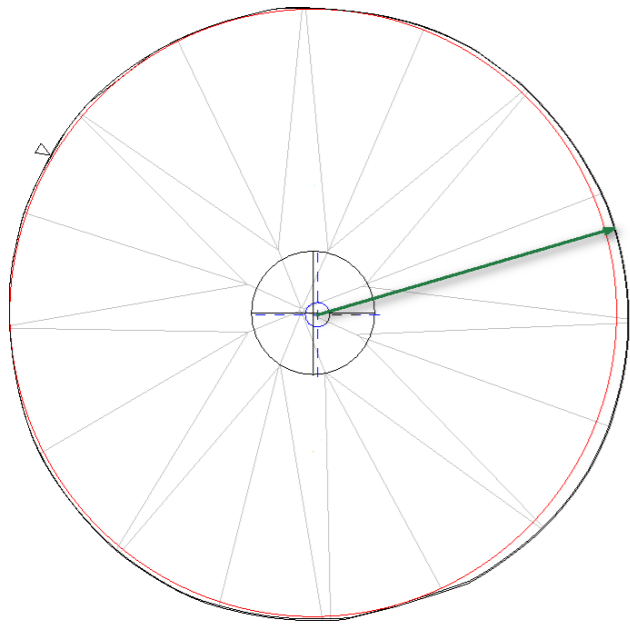
- 3. Minimum radius from step 2 is selected.
- 4. Graphics is drawn as deviation from minimum radius.





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.