

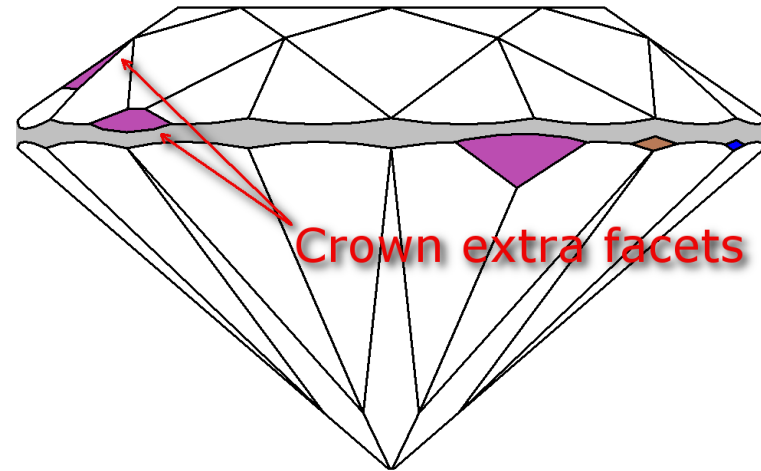
Extra facets Girdle\Crown\Pavilion

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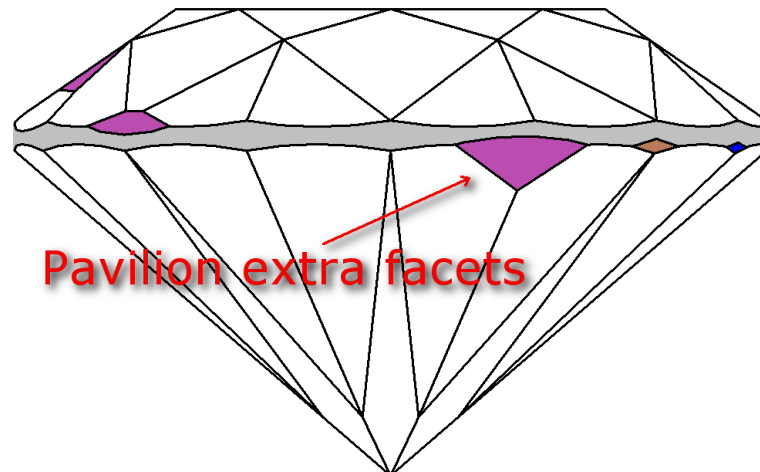
1. Extra Facets Crown\Pavilion

There are two types of extra facets indicated with **purple color** in reports:

- **Extra facets crown** - extra facets belong to crown:



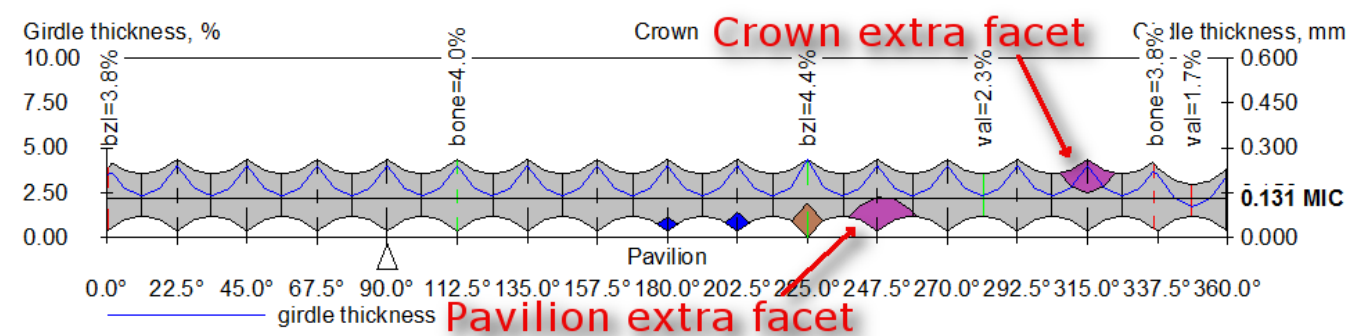
- **Extra facets pavilion** - extra facets belong to pavilion:



Presence of **extra facets pavilion\crown** indicated in report. The number of Crown and Pavilion extra facets indicated in brackets:

Extra Facet Girdle (steep/shallow)	3 (1/2)
Extra Facet Crown	Yes (2)
Extra Facet Pavilion	Yes (1)
Appraiser title	N/A
Overall cut quality	N/A
Symmetry appraiser title	Symmetry
Overall symmetry quality	PR
Density, g/cm3	3.51524
Rake Girdle angle, °	75.0

In case **crown** or **pavilion extra facets** adjust girdle, it will be indicated on **Girdle height plot**:

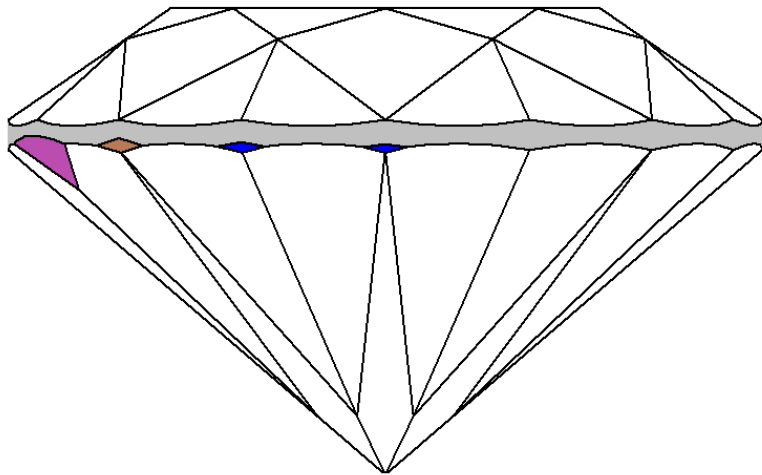


Please pay attention that **Crown** and **Pavilion extra facets** do not include **extra facets girdle** described below (see in p.2).

2. Extra Facets Girdle

There are two Girdle height calculation methods - GIA heights method and Octonus heights method.

- For both methods Girdle height calculation depends on extra facets depending on their slope angles. **RakeGirdleAngle** is a new parameter of extra facets slope angle. There are two types of Extra Facet Girdle depending on **RakeGirdleAngle** value:
 - Steep extra facets girdle** – slope angle is more than **RakeGirdleAngle** (brown color).
 - Shallow extra facets girdle** - slope angle is less than **RakeGirdleAngle** (blue color).

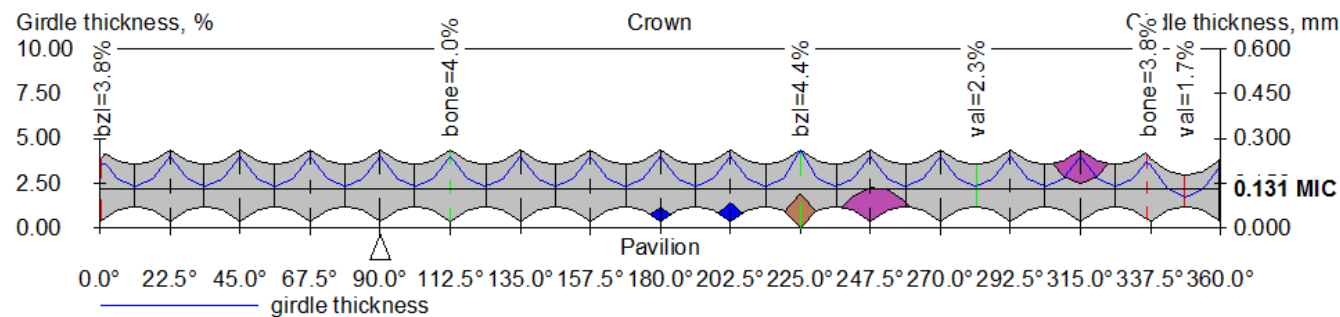


- Extra Facet Girdle** (steep/shallow) shows the total number of **extra girdle facets**. The number of **Steep** and **Shallow** extra facets girdle are displayed in brackets:

Extra Facet Girdle (steep/shallow)	3 (1/2)
Extra Facet Crown	Yes (2)
Extra Facet Pavilion	Yes (1)
Appraiser title	N/A
Overall cut quality	N/A
Symmetry appraiser title	Symmetry
Overall symmetry quality	PR
Density, g/cm3	3.51524
Rake Girdle angle, °	75.0

3. **RakeGirdleAngle** is equal to 75° by default. That value can be changed (see p. 4.1 below) and indicated in report (see picture above).

4. **Extra facet girdle** are indicated on **Girdle height plot**:

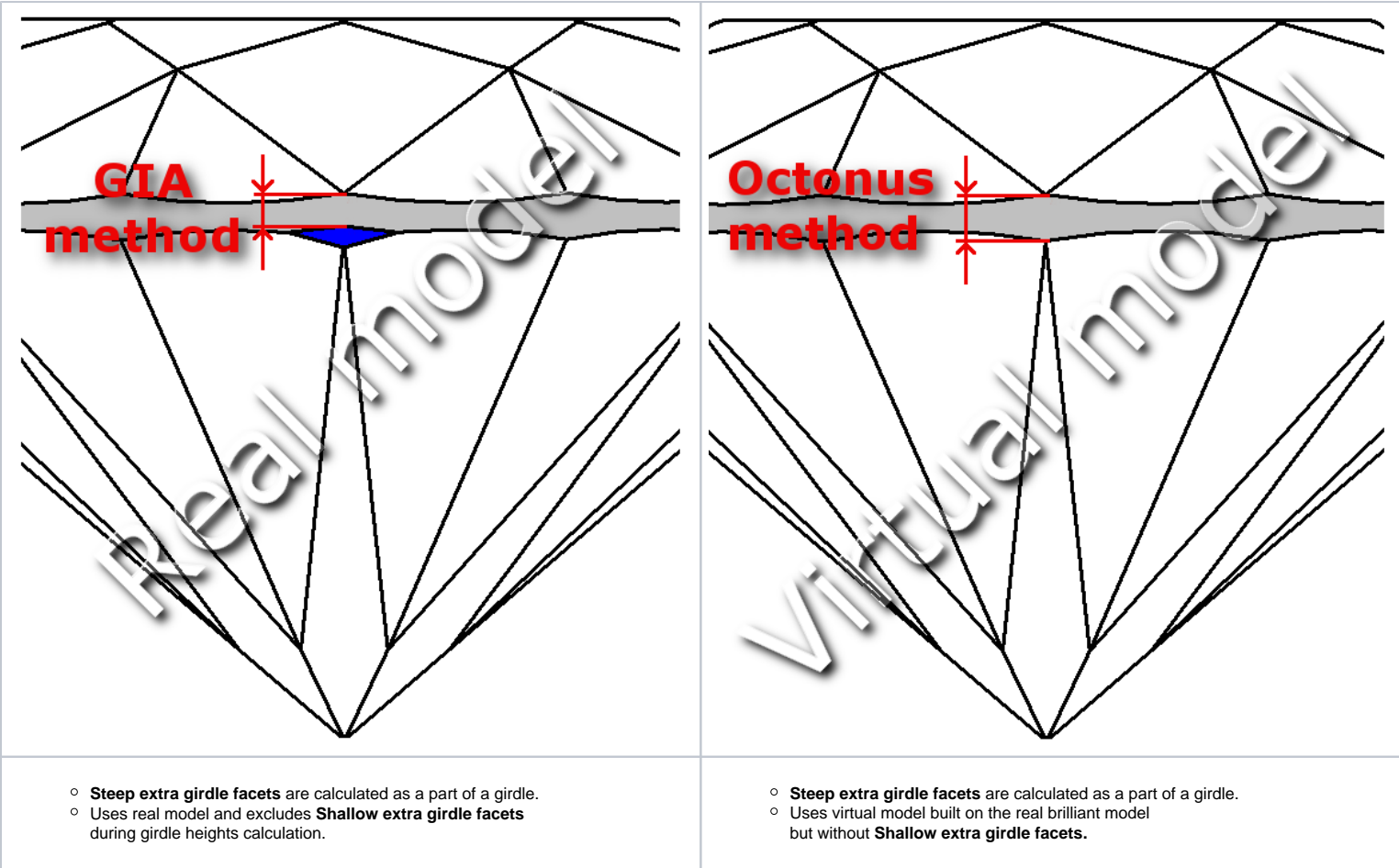


5. Girdle heights method indicates Octonus or GIA heights method was used for heights calculation in the report:

GIA height method		Octonus height method	
General Information		General Information	
Model	N/A	Model	N/A
Expert name	N/A	Expert name	N/A
Report date	N/A	Report date	N/A
Scale weight, ct	N/A	Scale weight, ct	N/A
Model mass, ct	0.82, 0.8239	Model mass, ct	0.82, 0.8248
Corrected mass, ct	N/A	Corrected mass, ct	N/A
Spread	-0.03 ct, -3.36%	Spread	-0.03 ct, -3.49%
AGS Spread	-0.03 ct, -3.42%	AGS Spread	-0.03 ct, -3.54%
Girdle height method	GIA	Girdle height method	Octonus

3. Difference between Octonus and GIA girdle height methods calculation

Girdle heights calculation method	
GIA method	Octonus method



4. Setup changes

To change **RakeGirdleAngle** value:

1. Go to Scan Polish diamond\Process\Options...\Report tab
[blocked URL](#)
2. Change the **RakeGirdleAngle** value
3. Press Enter button

To activate **GIA heights method** calculation:

1. Go to Scan Polished Diamond/Options... /Report tab .
[blocked URL](#)
2. Select GIA heights.

When **GIA heights method** is active all heights parameters are calculated according new rules (see above).

5. Samples

DMC file	Height method	Report
RBC_girdle_extra_facets_Sample_1.dmc	GIA	Full_report_RBC_Sample_1_GIA.docx
	Octonus	Full_report_RBC_Sample_1_Octonus.docx
RBC_girdle_extra_facets_Sample_2.dmc	GIA	Full_report_RBC_Sample_2_GIA.docx
	Octonus	Full_report_RBC_Sample_2_Octonus.docx

6. Notes

- Please use **report.dll 2.5.7.1 or higher** to see features described in the manual
- 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.

