
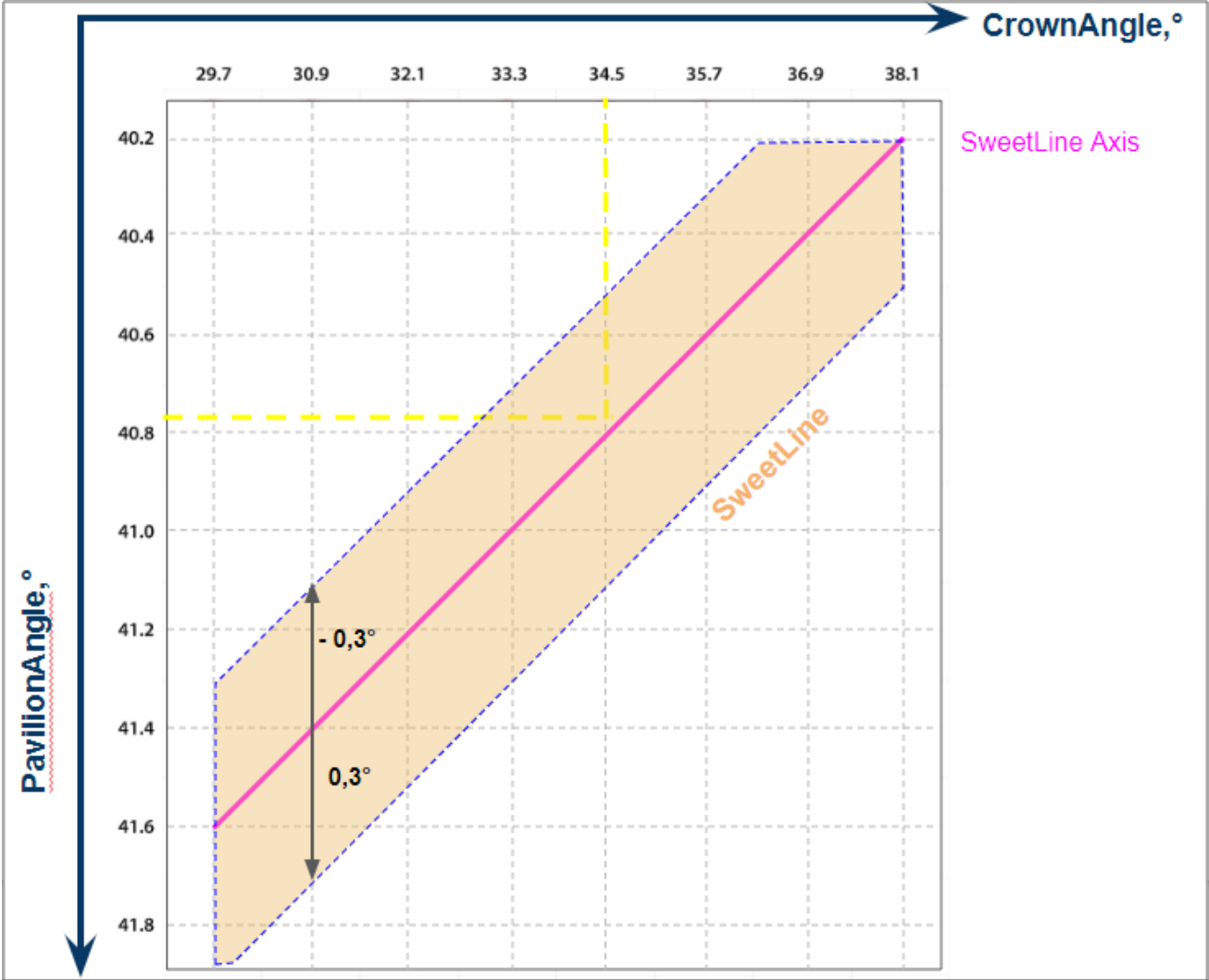


# SweetLine

 This parameter is applicable to the following cuts: Round Brilliant, Oval, AnyCut.

The *SweetLine* is a special parameter used for introducing combined limitations on *CrownAngle* and *PavilionAngle*. To achieve better optical performance (light return, fire, etc), *CrownAngle* and *PavilionAngle* should preferably fall within a certain area which can't be adequately modeled by setting independent bounds on these two parameters. *SweetLine* is intended to address this issue.



## Calculation

For Round Brilliant, Oval:

$$\text{SweetLine,}^\circ = \text{PavilionAngle,}^\circ - \text{PavilionAngle,}^\circ (\text{OL})$$

Where:

- **PavilionAngle,°** - Avg (average) value for the model is used
- **PavilionAngle,° (OL)** is PavilionAngle,° of the point on the **SweetLine Axis**, that has the same CrownAngle,°
- **CrownAngle,°** - Avg (average) value for the model is used
- **SweetLine Axis** is the line with negative slope 1:6 passing through the point with CrownAngle = 34.5 and PavilionAngle = 40.75
- *Negative slope 1:6* means "each 6° increase of CrownAngle is 1° decrease of PavilionAngle"

For AnyCut:

As there are multi-tier cuts, their angles are all different and the angles of some specific facets do not matter, therefore in the SweetLine calculation, the **CrownHeight** and **PavilionHeight** are used.



For each of the **Client Cuttings**, you can specify a unique **SweetLine Axis** slope using allocation forms of the cutting as described [here](#).

## Usage and Examples

For a detailed description of how the SweetLine parameter can be used for getting optimal solutions, see [Using SweetLine](#) page.

## Reporting

Reported in	Section	Values	Units	Bookmarks	Name in Reports
None	NA	Single value	°	NA	NA

## Visualization in Appraisers

Value	Units	Bookmark	Tab	Parameter Name	Comment
Single value	°	NA	Cut	SweetLine	Appraisers for Round Brilliant, Oval.
Single value		NA	MyAnyCutAbsolute Cut MyAnyCutRelative Cut	SweetLine	Composite appraisers: <ul style="list-style-type: none"><li>• MyAnyCutOpt   MyAnyCut</li><li>• CushionSquare_Opt   CushionSquare</li><li>• CushionRectangular_Opt   CushionRectangular</li></ul>