## Using SweetLine

On this page:

```
Overview
2 Parameter Usage
3 Overview Video 
5 Example- - Semipolished Stone
```


## Overview

The SweetLine parameter description, information about its calculation and presence in appraisers and reports is presented on the SweetLine page.
Parameter Usage
 that is, by running the search multiple times with extremely tightened CrownAngle and PavilionAngle, each time covering a small portion of the stripe. Sweetine offers a less time-consuming alternative to this approach.


The default EX boundaries for SweetLine is from -1.5 to 1.5. Boundaries both for EX and for all other grades can be changed and saved in editable profiles


## Import...

Export -

While comparing the Smart Recut solutions making use of SweetLine, keep in mind the following features:

- Changing the SweetLine parameter does not necessarily affect the solutions. If a solution found with default SweetLine happened to fall close enough to the optimal line, then the search with lowered SweetLine might end up in the same solution. - The MaxMass preset takes into account neither the CrownAngle and PavilionAngle nor SweetLine limitations.


## Overview Video

Video | SweetLine - Time-Saving Approach to Getting Better Optical Performance

| Published: | 2019, October 1 | Last Updated: | 2019, December 5 | v.2.0 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Your browser does not support the HTML5 video element |  |  |  |  |

CrownAngle $=34.5$ and PavilionAngle $=40.75$ named Tolkowskk Point provide the best optical performance

- Briliants belonging to axis
to axis going through 7 io thsky oint with the negative slope $1: 6$ also provide excellent optical performance
- The Sweetline parameter stick solutions to this axis There are two ways of using Sweetline: via Sweetline profile or using your own editable profile with SweetLine, CrownAngle and PavilionAngle set to your needs

| Video keywords: SweetLine, SweetLIne axis, optical performance, CrownAngle, PavilionAngle |  |  |
| :--- | :--- | :--- | :--- |
| Published in: | Release Notes | 2019-10-23- HPOxygen Server 5.3.42 |
|  | Documentation | Using SweetLine |
|  | Playlists | All Videos |
|  | Also | As Separate Page \| Specification |

## Example - Rough Stone

Here is an example of rough stone (0041_4.90ct.Mmd_modern.oxg) with two sets of Smart Recut solutions. Note how the tightened setting of SweetLine leads to the improved visual appearance (the "hearts and arrows" pattern) and greater values of light return.


Yellow Flags $=$ SR above solution \#1, Modern_Cut with Table EX $=[5460]$
Green Flags $=$ the same with SweetLine $E X=[-0,30,3]$

| Preset | - | - | 7.ExtendedLimits | 6.LowSym | 5.Standard | 4.NormalSym | 3.MediumSym | 2.HighSym | 1.UltraSym |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Original stone | 18. Semipolished | Series 1 ( Default Sweetline $=1,5$ ) |  |  |  |  |  |  |
| Mass | 4.8993 | 1.7662 | 1.8104 | 1.8082 | 1.8074 | 1.8055 | 1.8039 | 1.8018 | 1.7958 |
| Optical symmetry | NA | 8.05 | 6.00 | 6.73 | 7.10 | 7.56 | 7.74 | 7.93 | 8.22 |
| CrownAngle, PavilionAngle | NA | $\begin{aligned} & 34.69 \\ & 4.24 \\ & 4 . \end{aligned}$ | $\begin{aligned} & 35.20 \\ & 41.65 \end{aligned}$ | $\begin{aligned} & 35.20 \\ & 41.65 \end{aligned}$ | $\begin{aligned} & 35.20 \\ & 41.65 \\ & 40 \end{aligned}$ | $\begin{aligned} & 35.20 \\ & 41.65 \\ & 405 \end{aligned}$ | $\begin{aligned} & 35.20 \\ & 4.65 \\ & 4.65 \end{aligned}$ | $\begin{aligned} & 35.20 \\ & 4.65 \end{aligned}$ | $\begin{aligned} & 35.20 \\ & 4.65 \\ & 4.65 \end{aligned}$ |
| Light return | NA |  | 0.90 | 0.87 | 0.87 | 0.85 | 0.87 | 0.88 | 0.89 |
| Picture |  |  |  |  |  |  |  |  | $1>1$ |
|  | NA |  | Series 2 (SweetLine $=0,3$ ) |  |  |  |  |  |  |


(i) Light return is currently not included in HPO reports. It may be obtained via DiamCalc. To open a model in DiamCalc, export it from HPO using File Export Diamond to dmc file.

(4) Note that the MaxMass preset is excluded from the comparison.

## Example - Semipolished Stone



Yellow Flags $=$ SR above solution \#2, Moder__Cut with Table EX $=[5460]$
Green



