

Using Girdle Shape Parameters

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Overview

The following parameters are related to controlling a girdle shape when working with SmartRecut:

- GirdleShape1stDerEveryToleranceModule
- GirdleShape2ndDerEveryToleranceModule

The description of these parameters, information about their calculation and presence in appraisers and reports is presented on the [Girdle Shape Tolerance](#) page.

Parameter Usage

As both girdle shape tolerance parameters limit the difference between girdle shape in the Recut and corresponding SmartRecut solutions, you can use them to additionally limit this difference, which means you may obtain SR solutions that are more alike to the Recut original solution in the sphere of the girdle shape. The lower value you set for the GirdleShape1stDerEveryToleranceModule and GirdleShape2ndDerEveryToleranceModule parameters, the more similarity of girdle shapes of Recut and SmartRecut solutions you obtain.

i

Note that decreasing parameters values:

- increases the similarity of girdle shapes of Recut and SmartRecut solutions but
- may have a decrease of mass as a back effect.

Setting new parameter values for both parameters is done via editing the **presets**. The default values for all presets are presented in the figure:

Appraiser Editor

MyRelativeAscii

Profile: MyRelativeAscii_1

Presets

Hide Presets

Cut

Symmetry

Other

Parameter	Grade	.AllNarrower	AnglesNarrower	GirdleNarrower	VerticesNarrower	VerticesWider	GirdleWider	AnglesWider	.AllWider								
GirdleShape1stDerEveryToleranceModule		-	5	-	10	-	5	-	10	-	10	-	20	-	10	-	20
GirdleShape2ndDerEveryToleranceModule		-	5	-	10	-	5	-	10	-	10	-	20	-	10	-	20

Example

In this example project ([GS Parameters Example 5-10-20-30 \(v.3\).oxgz](#)) the following SmartRecut solutions were obtained by changing the GirdleShape1stDerEveryToleranceModule and GirdleShape2ndDerEveryToleranceModule values.

HPO version = 5.4.5

Appraiser = MyAnyCutOpt | MyAnyCutRelative

Profile = Default

GirdleRatio [Ex Ex] = [-0,01 0,01]

Cutting (Client Cuttings) = PearSimple ([PearSimple.zip](#))

All solutions produced from:

Recut solution (#1) with **Algorigthm** = "SmartRecut (Brilliant, Oval, AnyCut)" and **Preset** = [AnyCut_avg_preset.ini](#)

Solution #	GirdleShape1stDerEveryToleranceModule	GirdleShape2ndDerEveryToleranceModule	
2	5	5	
3	10	5	
4	20	5	
5	30	5	
6	5	10	
7	10	10	

8	20	10
9	30	10
10	5	20
11	10	20
12	20	20
13	30	20
14	5	30
15	10	30
16	20	30
17	30	30
18	0	0

▼ Plans & Scans

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✖

⬆️

⬇️

Compare

Standard Report

⌵

Cutting

Price

Mass

Alloc

Yield

Clarity

Color

Gr

Cut

sym

Profile

Br

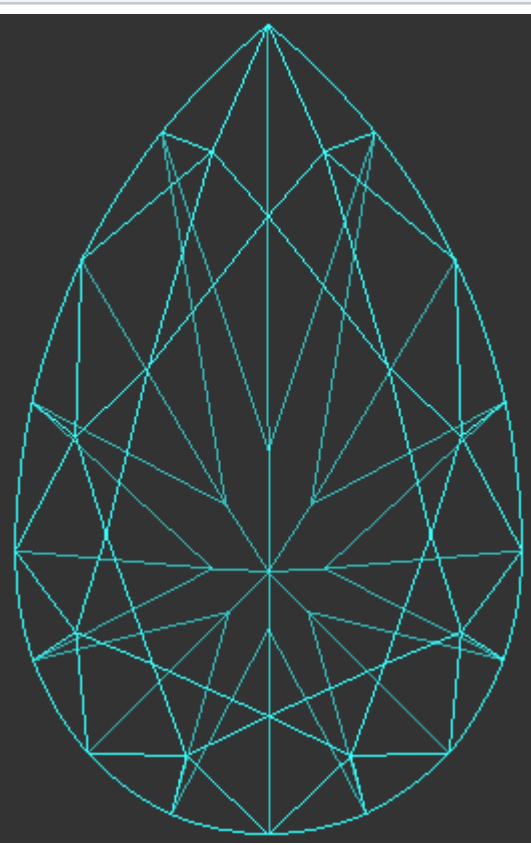
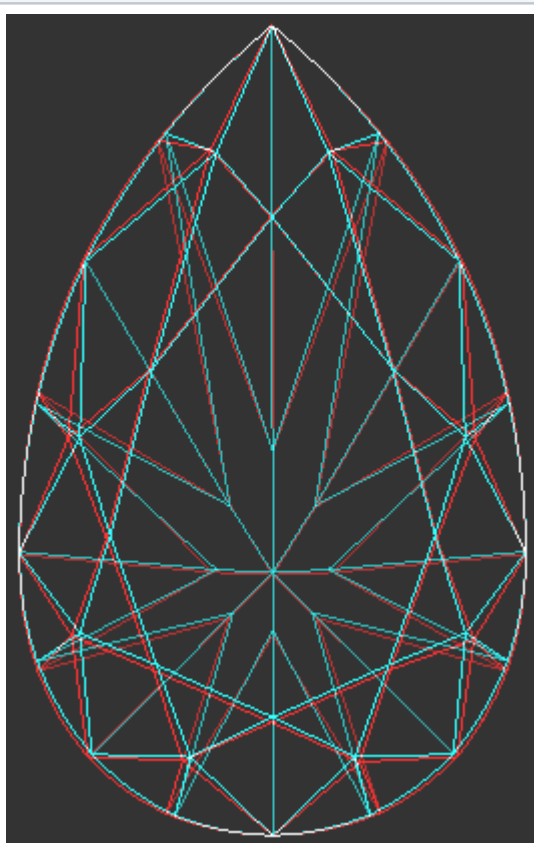
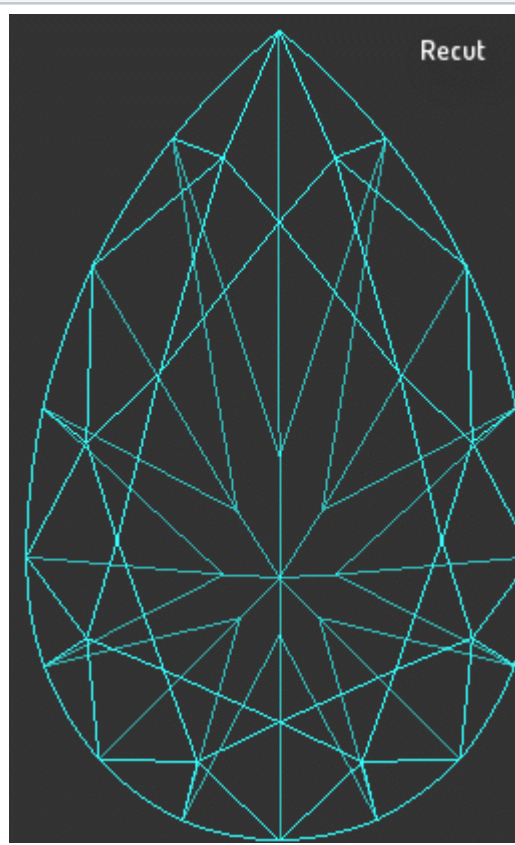
☐


Imported model

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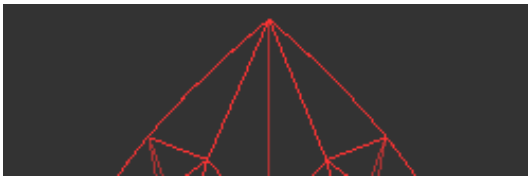
3.6245

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<input type="checkbox"/>	3	🟡	●	PearSimple	3139\$	🔴	1.0712	SR	29.52%	VS1	H	EX	EX	EX	MyAnyCutRelative_1
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<input type="checkbox"/>	6	🟢	●	PearSimple	3109\$	🔴	1.0662	SR	29.25%	VS1	H	EX	EX	EX	MyAnyCutRelative_1
<input type="checkbox"/>	7	🟡	●	PearSimple	3139\$	🔴	1.0716	SR	29.52%	VS1	H	EX	EX	EX	MyAnyCutRelative_1
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<input type="checkbox"/>	18	★	●	PearSimple	3080\$	🔴	1.0582	SR	28.97%	VS1	H	EX	EX	EX	MyAnyCutRelative_1

Recut	Solution #18 (GS1 = 0, GS2 = 0)	Animation for Recut - GS1 5-10-20-30
		
1.0000 Ct	1.0582 Ct	GS2 = 5

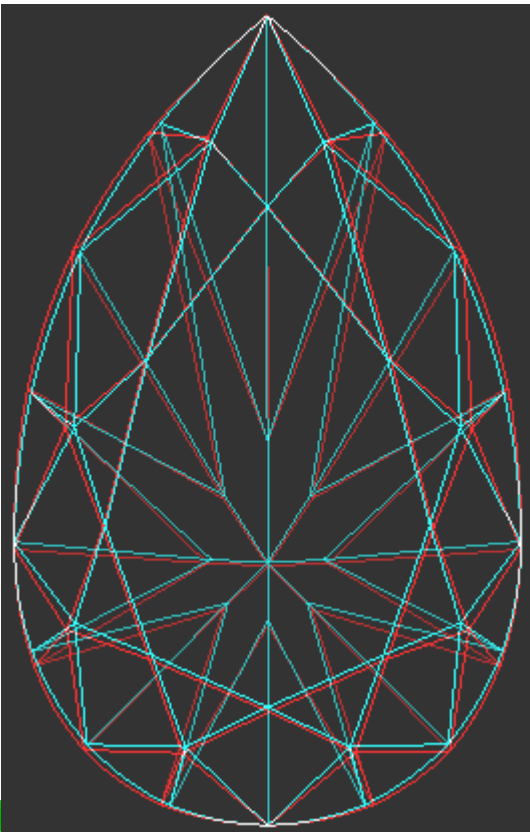
Legend	
Recut	

SmartRecut



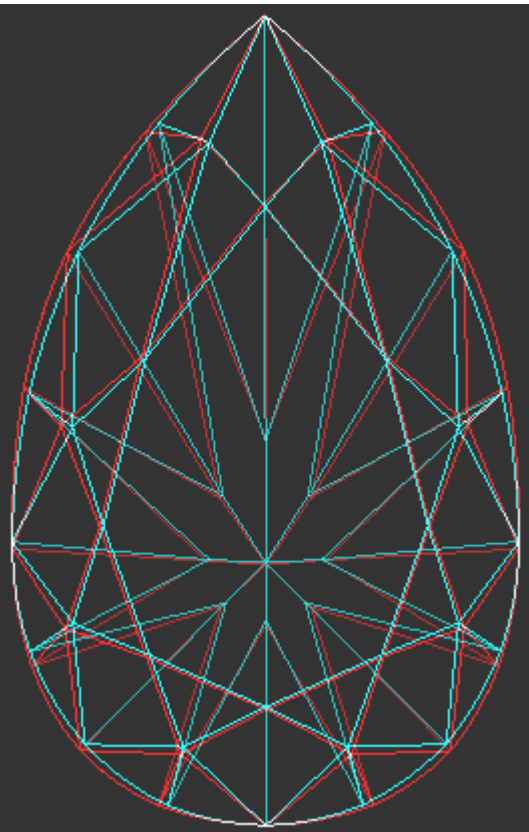
GirdleShape2ndDerEveryToleranceModule

5



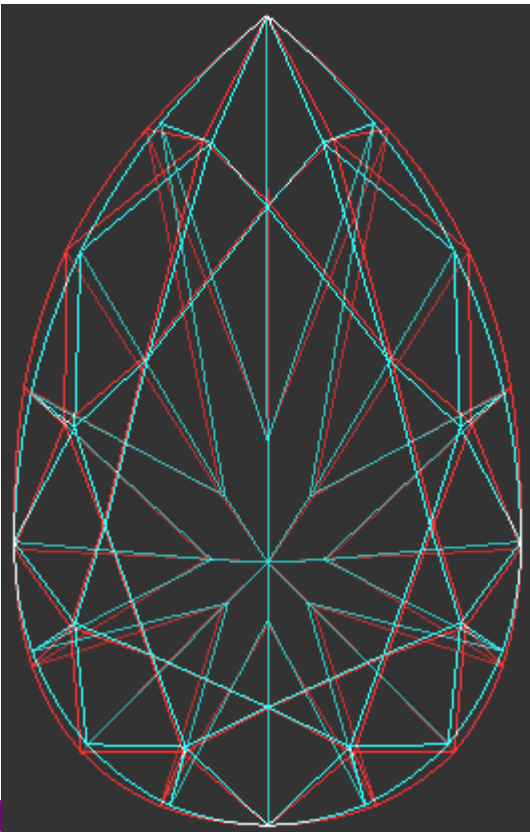
1.0661 Ct

10



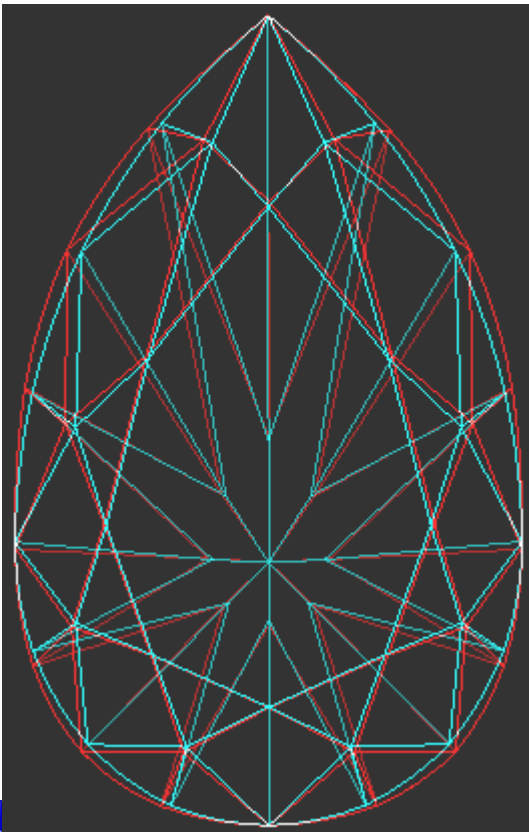
1.0712 Ct

20



1.0764 Ct

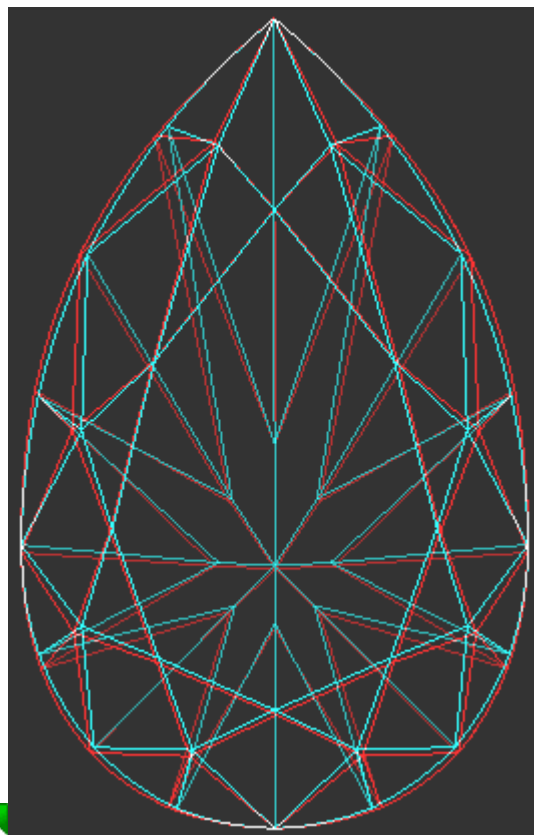
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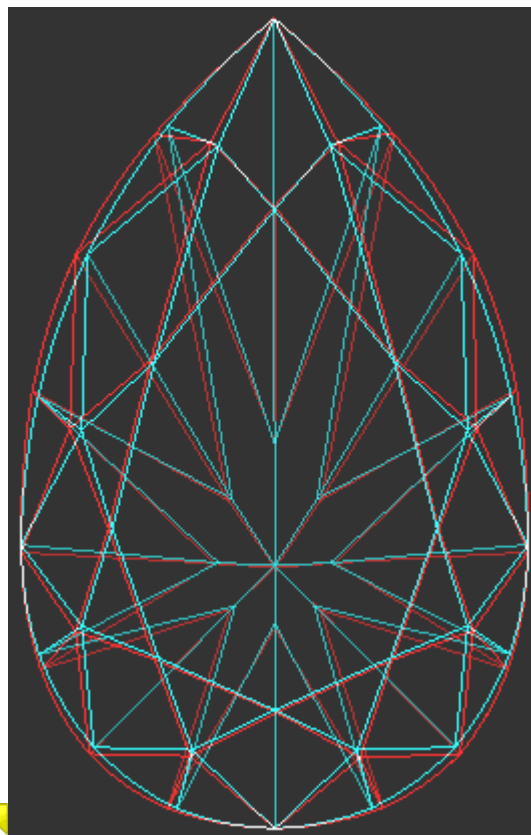
1.0768 Ct

GirdleShape1stDerEveryToleranceModule

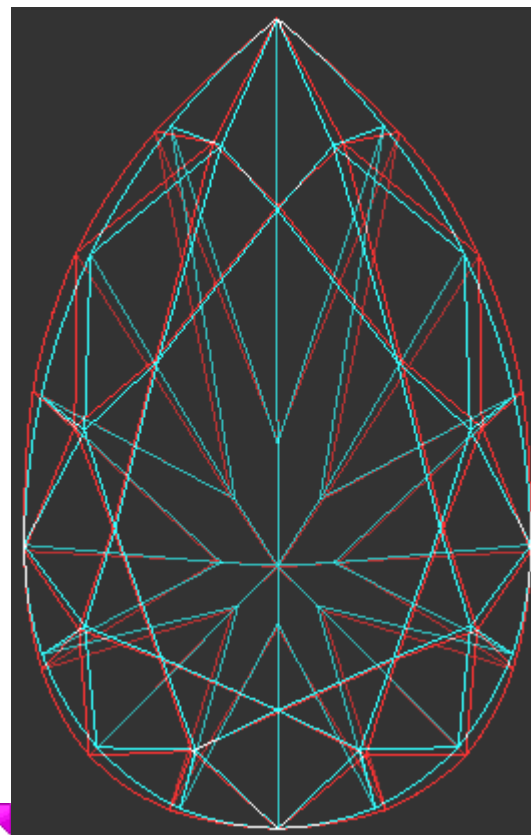
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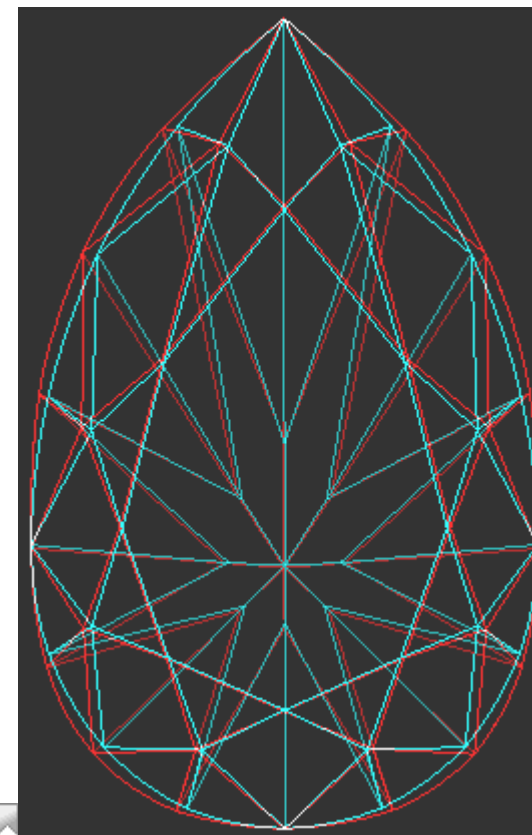
1.0662 Ct



1.0716 Ct



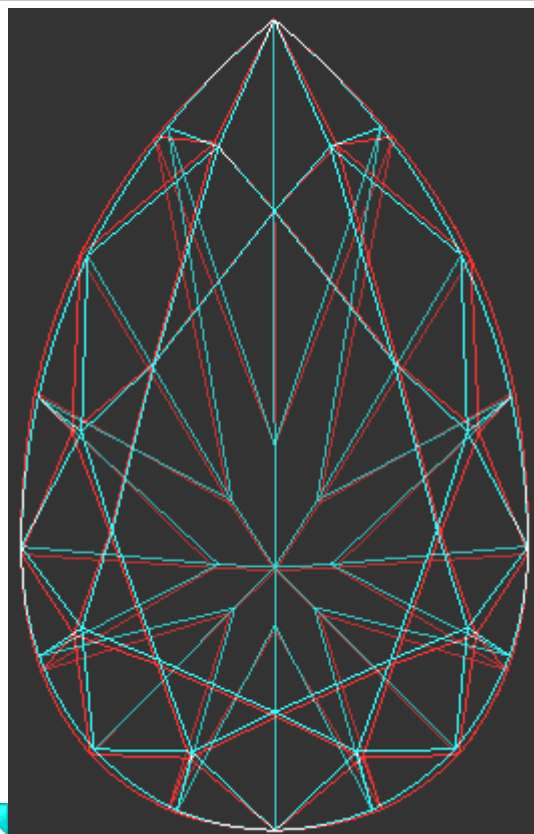
1.0789 Ct



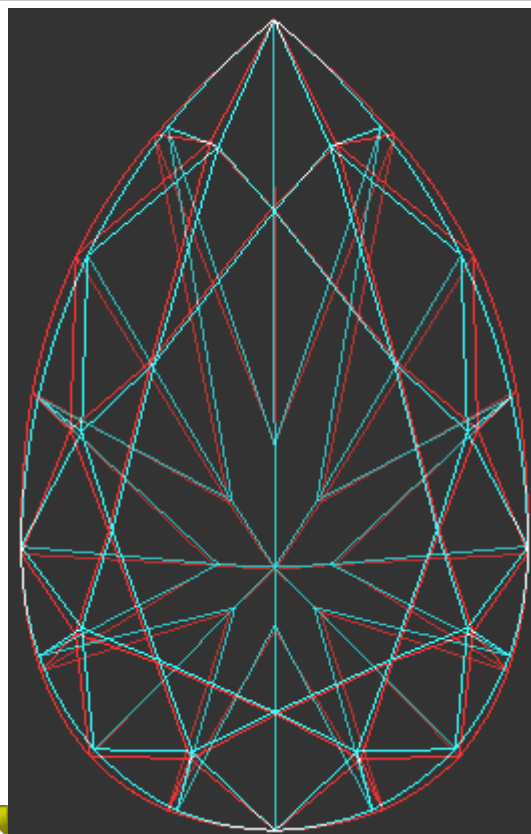
TBD

1.0820 Ct

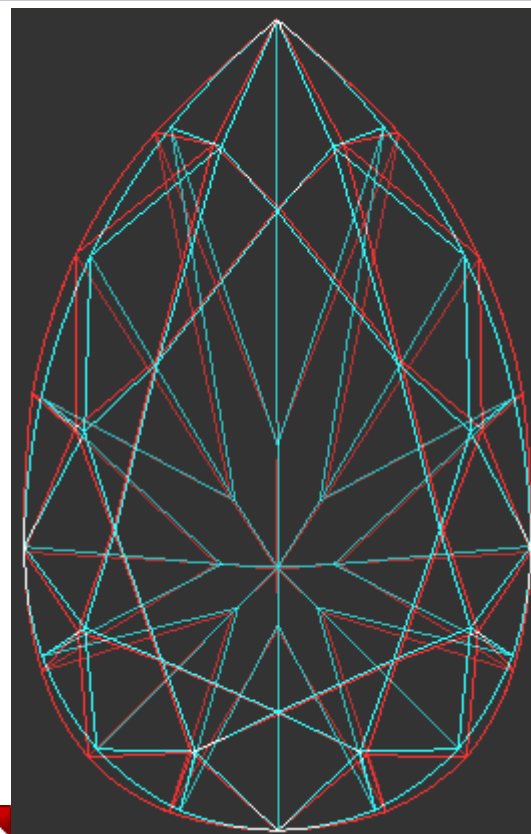
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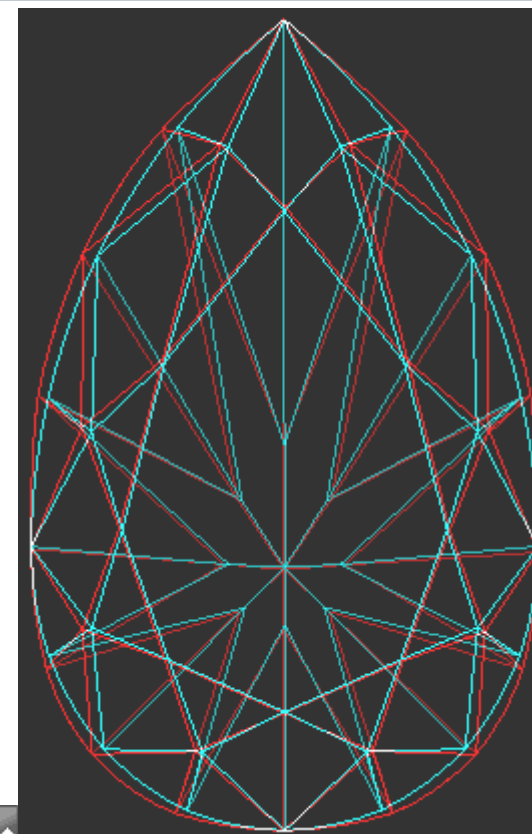
1.0662 Ct



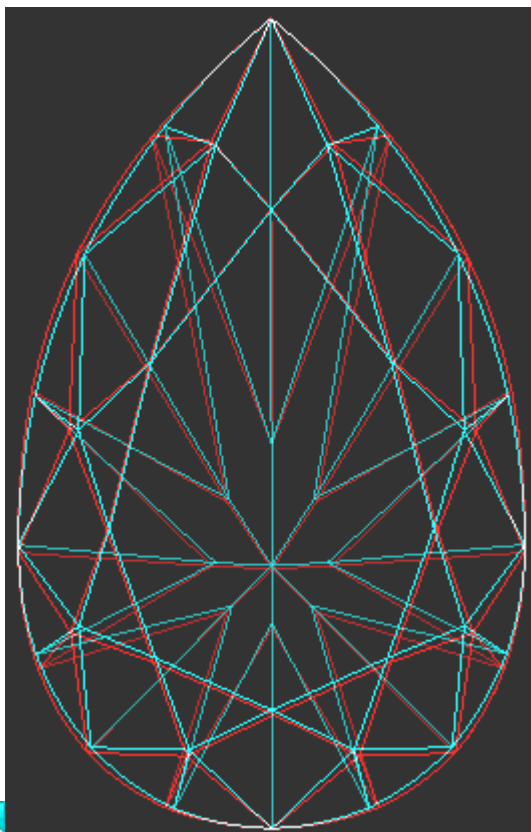
1.0716 Ct



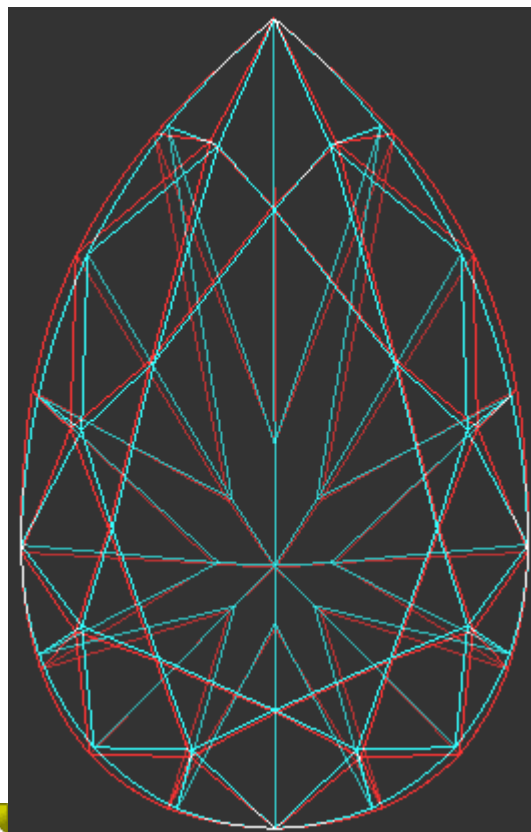
1.0793 Ct



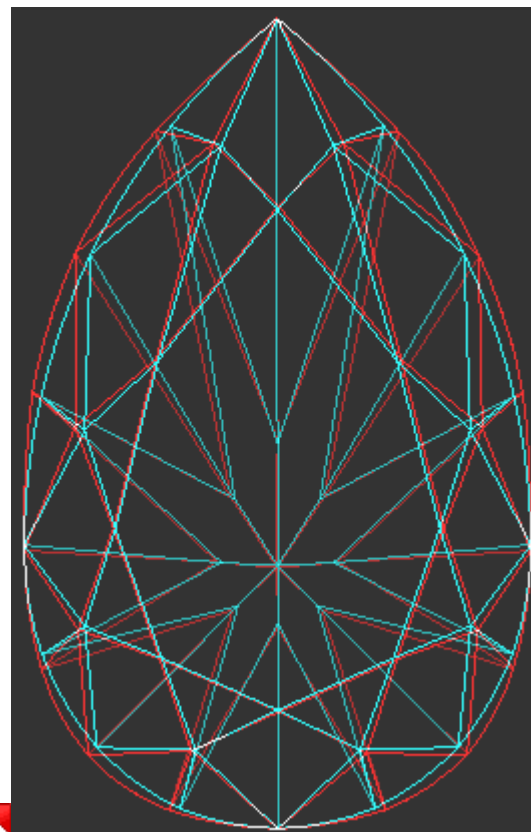
1.0835 Ct



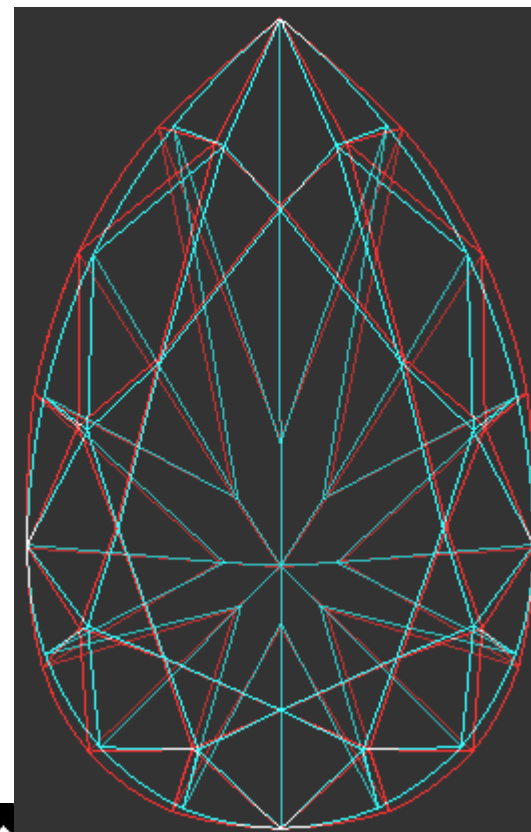
1.0662 Ct



1.0716 Ct



1.0793 Ct



1.0838 Ct