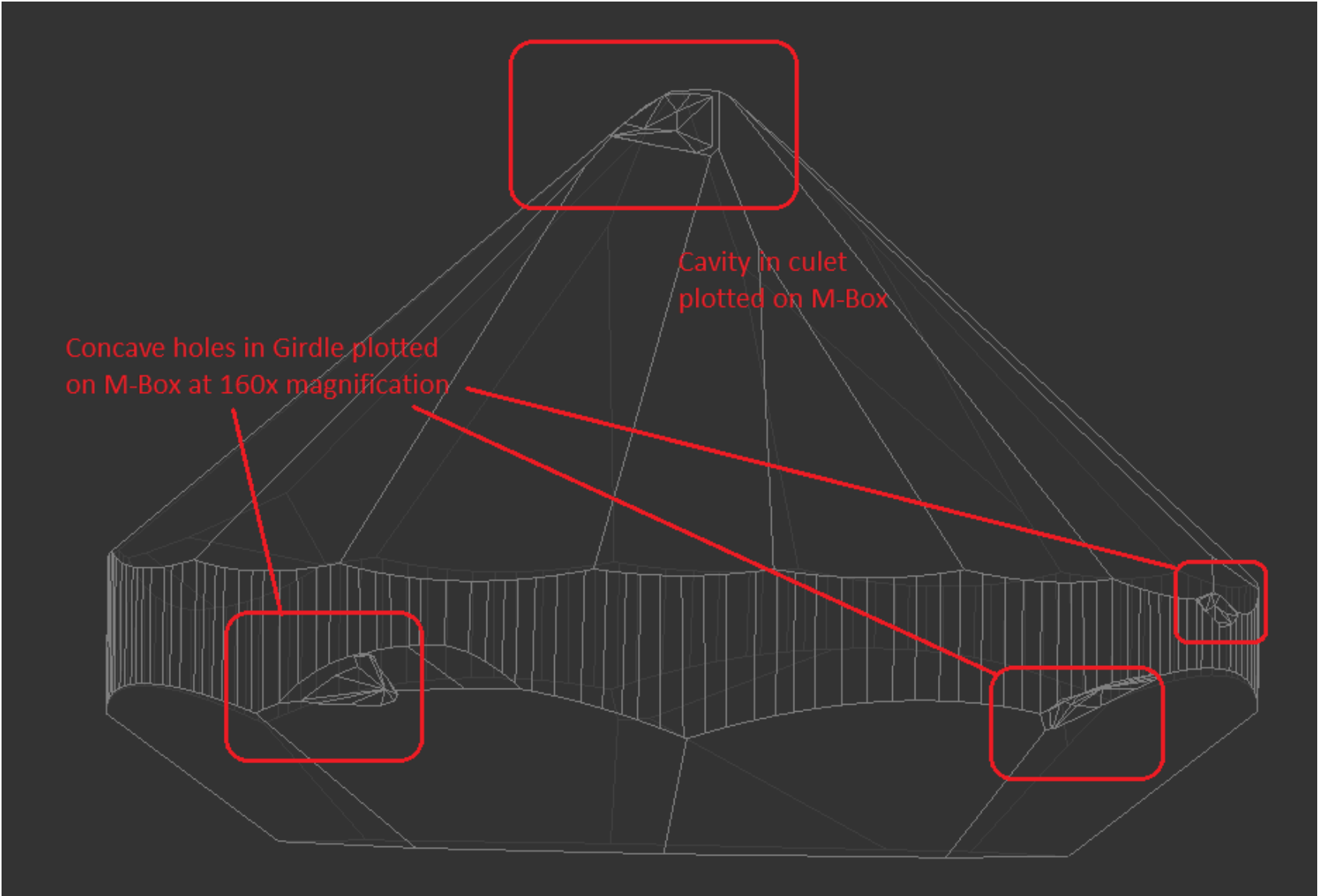


Automatic Asymmetric Smart
Recut – Blocked stone with
cavities in Girdle

1.289 Ct

3D Model with cavities plotted on M-Box



Standard Symmetric solution – 1.0625 Ct – 13788 \$

delete

#	Price	Cutting	Mass	Yield	Clarity	Col	Gr	Cut	Sym	
Active scan			1.2887							
<input type="checkbox"/>	4	13918\$	Brilliant	1.0703	83.03%	VVS1	F	EX	EX	EX
<input type="checkbox"/>	8	13918\$	Brilliant	1.0701	83.03%	VVS1	F	EX	EX	EX
<input type="checkbox"/>	7	13788\$	Brilliant	1.0674	82.25%	VVS1	F	EX	EX	EX
<input checked="" type="checkbox"/>	1	13788\$	Brilliant	1.0625	82.25%	VVS1	F	EX	EX	EX
<input type="checkbox"/>	2	13398\$	Brilliant	1.0349	79.93%	VVS1	F	EX	EX	EX

▼ Solution

1	cutting:	Brilliant	Mass:	1.0625 ct
<input type="checkbox"/>	Price:	13 788 \$	Clarity:	VVS1
	Discount:	<u>0.00 %</u>	Color:	F
	PPC:	13008 \$/ct	Grade:	EX

▼ Inclusions

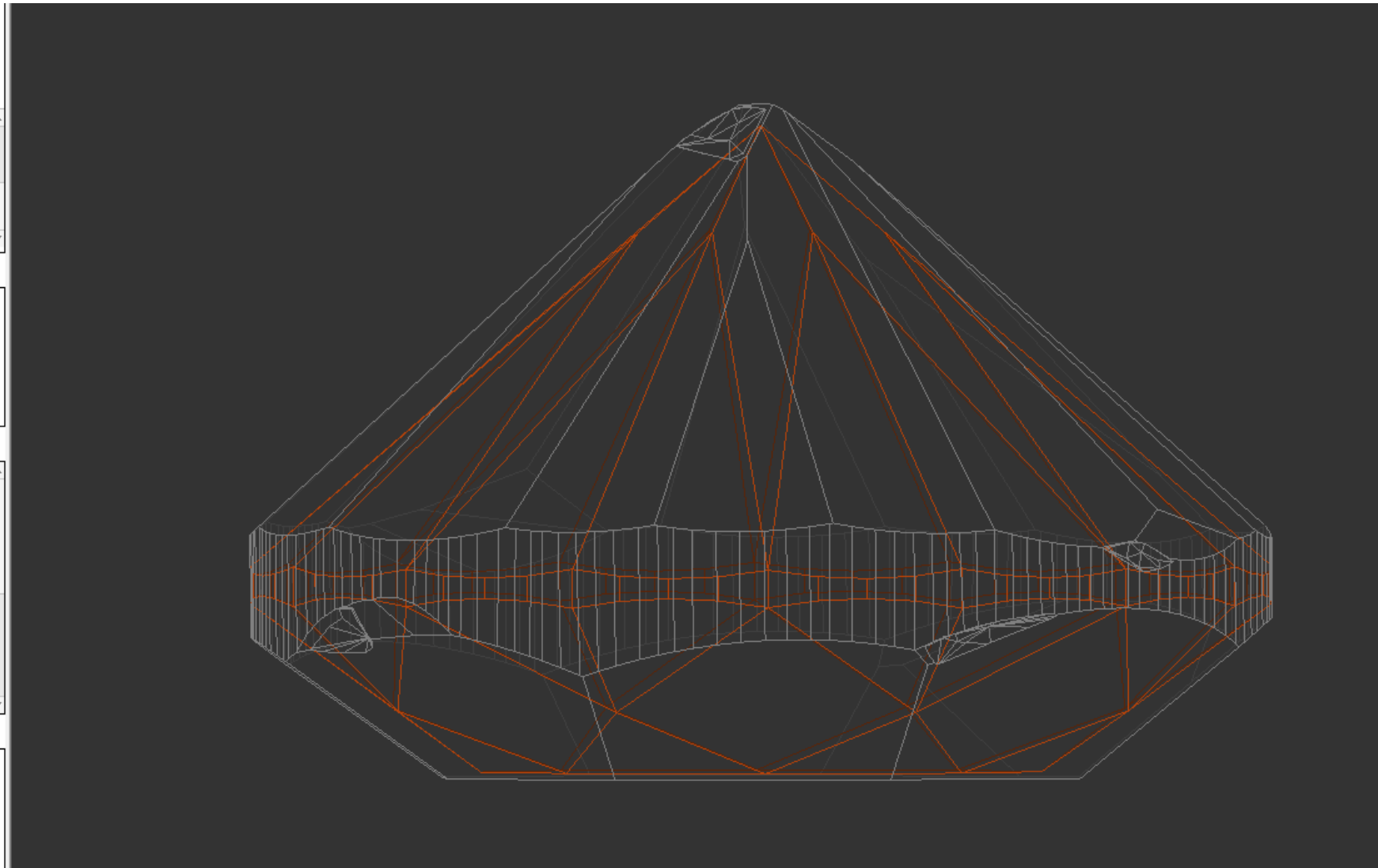
Auxiliary Point 1	●	VS2	▼
Auxiliary Point 1	●	VS2	▼
Auxiliary Point 1	●	VS2	▼
Auxiliary Point 1	●	VS2	▼
Auxiliary Point 2	●	VS2	▼
Auxiliary Point 2	●	VS2	▼
Auxiliary Point 2	●	VS2	▼
Auxiliary Point 2	●	VS2	▼
Auxiliary Point 3	●	VS2	▼

▼ Active Appraiser and Pricelist

Appraiser: MyGIA | GIA Facetware + MyGIA

Profile: kg+gia+hrd Show Editor

Pricelist: LEXUS_PRICE_09MARCH_2012



GIA Facetware grade estimation with rendered image of future polish

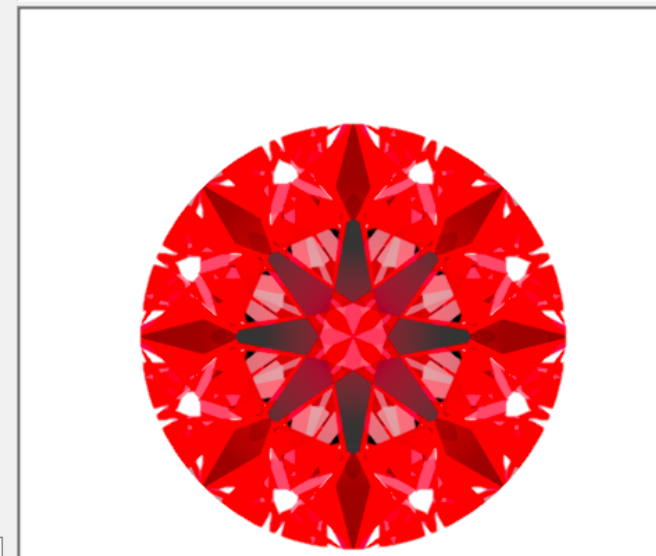
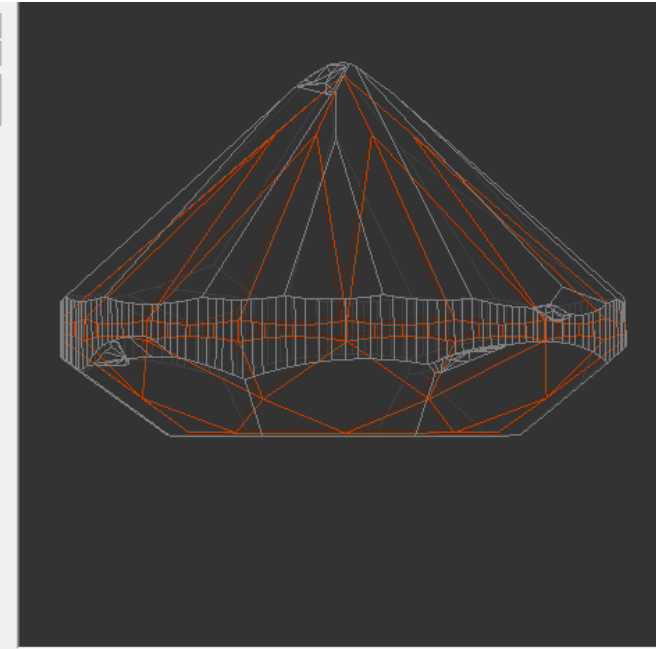
Choose polish quality:

Choose rounding rules for calculations:
 GIA Rounding Rules (recommended)
 Math Rounding Rules

FAQ
 Limitations
 Export to MS Word

Parameters	Measured value			Rounded value	Estimated Cut Grade	Estimated Symmetry Grade	Estimated Polish Grade
	Min	Max	Dev				
Shape	-	-	-	Brilliant	-	-	-
Estimated Weight (Ct)	-	-	-	1.0625	-	-	-
Diameter (mm)	6.46	6.49	0.03	6.47	-	EX	-
Table Size (%)	54.9	55.1	0.2	55.0	55	EX	-
Crown Angle (°)	36.20	36.20	0.00	36.20	36.0	EX	-
Pavilion Angle (°)	40.80	40.90	0.10	40.85	40.8	EX	-
Star Length (%)	54.4	54.4	0.0	54.4	55	EX	-
Lower Half (%)	74.0	74.0	0.0	74.0	75	EX	-
Girdle Bezel Thickness (%)	3.66	3.66	0.00	3.66	3.5	EX	-
Star Angle (°)	24.5	24.5	0.0	24.5	24.5	EX	-
Upper Angle (°)	43.1	43.2	0.1	43.2	43.2	EX	-
Lower Angle (°)	42.1	42.1	0.0	42.1	42.1	EX	-
Girdle Valley Minimum (%) *	-	-	-	1.98	MED	EX	-
Girdle Valley Maximum (%) *	-	-	-	2.02	MED	EX	-
Culet Size (%) *	-	-	-	0.00	NON	EX	-
Crown Height (%)	16.50	16.50	0.00	16.50	16.5	EX	-
Pavilion Depth (%)	43.25	43.25	0.00	43.25	43.5	EX	-
Total Depth (%)	-	-	-	63.41	63.4	-	-
Table offset (%)	-	-	-	0.000	-	EX	-
Culet offset (%)	-	-	-	0.000	-	EX	-
Table-Culet (%)	-	-	-	0.000	-	EX	-
Crown Painting (°)	0.00	0.45	0.45	0.23	0.2	EX	-
Pavilion Painting (°)	0.00	0.45	0.45	0.23	0.2	EX	-
Sum Painting (°)	-	-	-	0.46	0.4	EX	-
Junction Twist (°)	0.00	0.00	-	-	-	-	-
Twist (°)	0.00	0.00	-	-	-	-	-
Radius roundness by OctoNus	for window size 15°:			0.15	-	EX	-
	for window size 30°:			0.27	-	EX	-
	for window size 45°:			0.31	-	EX	EX
	for window size 90°:			0.31	-	EX	-
Table edge (%)	21.04	21.04	0.00	21.04	-	-	-
Virtual table edge (%)	21.04	21.04	0.00	21.04	-	-	-
Table edge junction (%)	0.00	0.00	0.00	0.00	-	-	-
Table angle (°)	134.6	135.4	0.9	135.0	-	-	-
Bezel width (%)	29.41	29.95	0.54	29.68	-	-	-
Estimated Intermediate GIA Cut Grade:					EX	EX	EX
Estimated Final GIA Cut Grade:						EX	

Report generated successfully



Auto Asymmetric Solution - 1.0785 Ct - \$ 14048

Active scan	1.2887
<input type="checkbox"/> 10	● 14048\$ Brilliant 1.0792 83.81% VVS1 F EX EX EX
<input checked="" type="checkbox"/> 9	● 14048\$ Brilliant 1.0785 83.81% VVS1 F EX EX EX
<input type="checkbox"/> 6	● 13918\$ Brilliant 1.0738 83.03% VVS1 F EX EX EX
<input type="checkbox"/> 3	● 13918\$ Brilliant 1.0733 83.03% VVS1 F EX EX EX
<input type="checkbox"/> 5	● 13918\$ Brilliant 1.0733 83.03% VVS1 F EX EX EX

▼ Solution

9	cutting: Brilliant	Mass: 1.0785 ct
<input checked="" type="checkbox"/>	Price: 14 048 \$	Clarity: VVS1
	Discount: -10.00 %	Color: F
	PPC: 13008 \$/ct	Grade: EX

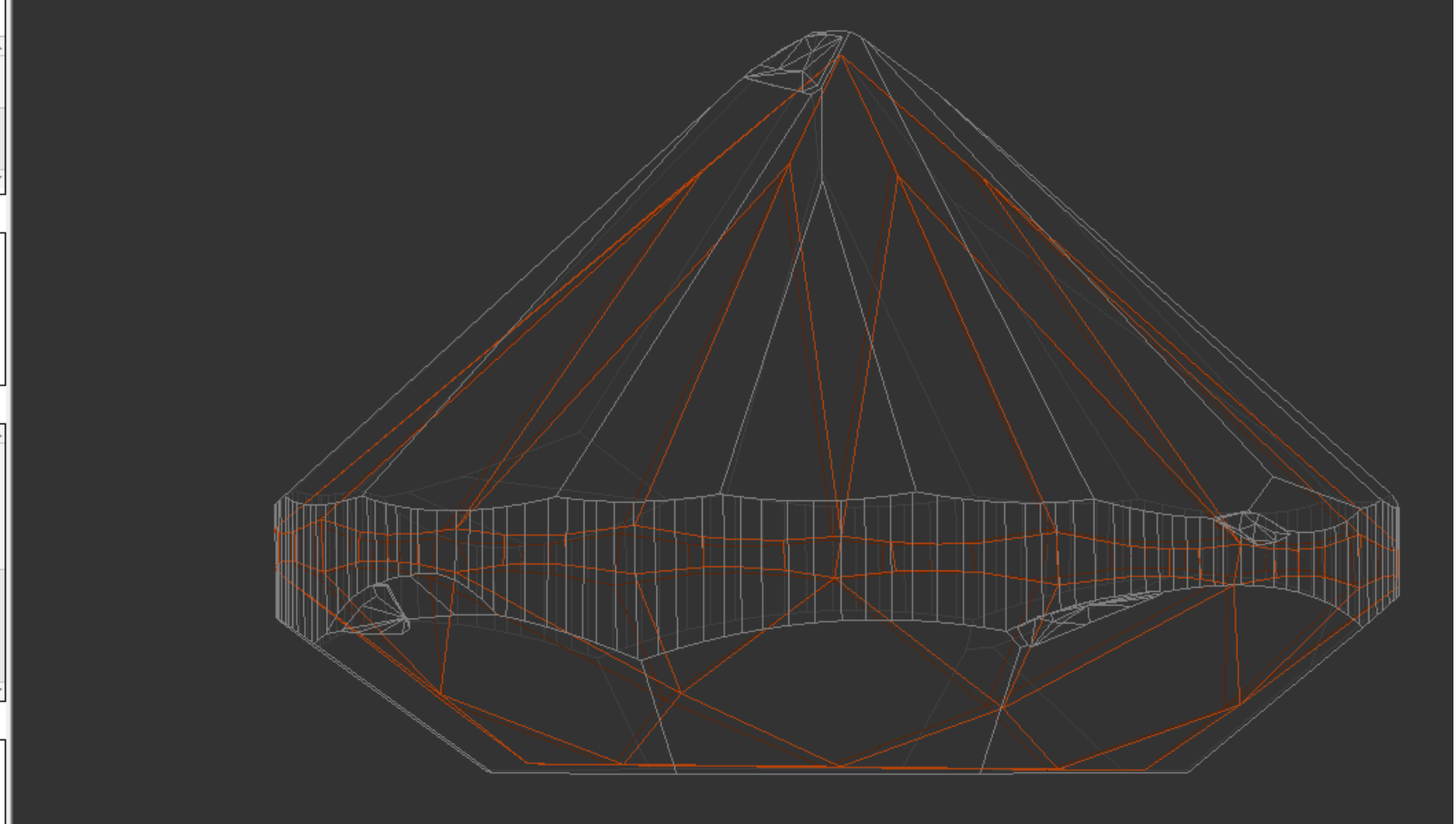
▼ Inclusions

Auxiliary Point 1	●	VS2	▼
Auxiliary Point 1	●	VS2	▼
Auxiliary Point 1	●	VS2	▼
Auxiliary Point 1	●	VS2	▼
Auxiliary Point 2	●	VS2	▼
Auxiliary Point 2	●	VS2	▼
Auxiliary Point 2	●	VS2	▼
Auxiliary Point 2	●	VS2	▼
Auxiliary Point 3	●	VS2	▼

▼ Active Appraiser and Pricelist

Appraiser: MyGIA | GIA Facetware + MyGIA

Profile: kg+gia+hrd



GIA Facetware grade estimation with rendered image of future polish

▼ Plans & Scans

delete

#	Price	Cutting	Mass	Yield	Clarity	Col	Gr	Cut	Sym
<input type="checkbox"/> Active scan	1.2887								
<input type="checkbox"/> 10	14048\$	Brilliant	1.0792	83.81%	VVS1	F	EX	EX	EX
<input checked="" type="checkbox"/> 9	14048\$	Brilliant	1.0785	83.81%	VVS1	F	EX	EX	EX
<input type="checkbox"/> 6	13918\$	Brilliant	1.0738	83.03%	VVS1	F	EX	EX	EX
<input type="checkbox"/> 3	13918\$	Brilliant	1.0733	83.03%	VVS1	F	EX	EX	EX
<input type="checkbox"/> 5	13918\$	Brilliant	1.0733	83.03%	VVS1	F	EX	EX	EX

▼ Solution

9 cutting: Brilliant Mass: 1.0785 ct

Price: 14 048 \$ Clarity: VVS1

Discount: -10.00 % Color: F

PPC: 13008 \$/ct Grade: EX

▼ Inclusions

Auxiliary Point	Inclusion	Grade
Auxiliary Point 1	●	VS2
Auxiliary Point 1	●	VS2
Auxiliary Point 1	●	VS2
Auxiliary Point 1	●	VS2
Auxiliary Point 2	●	VS2
Auxiliary Point 2	●	VS2
Auxiliary Point 2	●	VS2
Auxiliary Point 2	●	VS2
Auxiliary Point 3	●	VS2

▼ Active Appraiser and Pricelist

Appraiser: MyGIA | GIA Facetware + MyGIA

Profile: kg+gia+hrd Show Editor

Pricelist: LEXUS_PRICE_09MARCH_2012

Select algorithm and diamonds for allocation.

Algorithm 06. Semicut (final)

Cutting list: Brilliant

grade of 1st diam: EX

Brilliant

Choose polish quality: EX

Choose rounding rules for calculations:

GIA Rounding Rules (recommended)

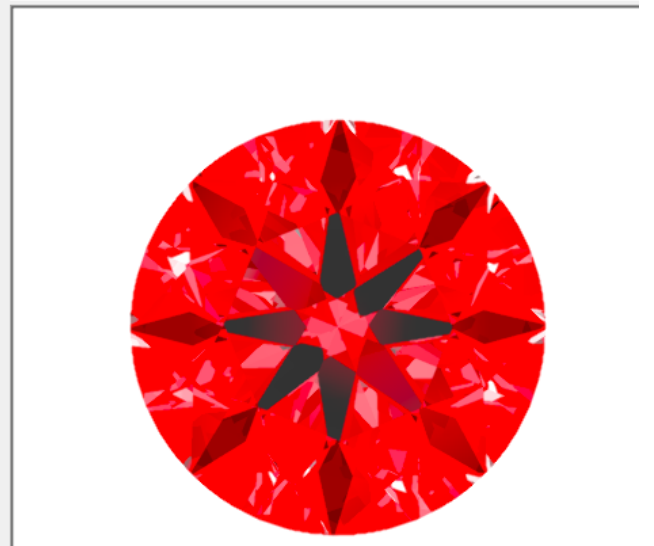
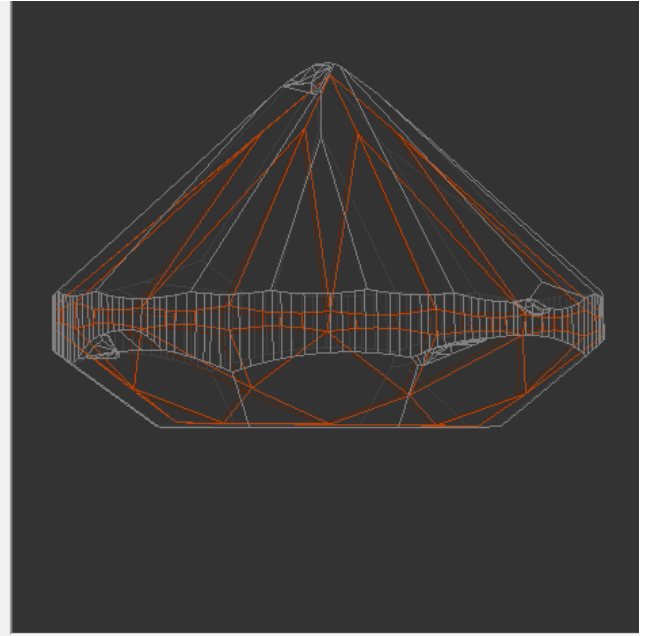
Math Rounding Rules

Parameters	Measured value				Rounded value	Estimated Cut Grade	Estimated Symmetry Grade	Estimated Polish Grade
	Min	Max	Dev	Avg				
Shape	-	-	-	-	Brilliant	-	-	-
Estimated Weight (Ct)	-	-	-	1.0785	-	-	-	-
Diameter (mm)	6.47	6.50	0.03	6.48	-	EX	-	-
Table Size (%)	54.3	55.3	1.0	54.9	55	EX	-	-
Crown Angle (°)	36.50	37.50	1.00	36.66	36.5	EX	-	-
Pavilion Angle (°)	40.40	41.00	0.60	40.68	40.6	EX	-	-
Star Length (%)	49.5	53.7	4.2	51.6	50	EX	-	-
Lower Half (%)	73.1	75.6	2.5	74.0	75	EX	-	-
Girdle Bezel Thickness (%)	3.39	3.86	0.46	3.64	3.5	EX	-	-
Star Angle (°)	23.7	25.5	1.8	24.4	24.4	EX	-	-
Upper Angle (°)	42.2	43.7	1.5	42.9	42.9	EX	-	-
Lower Angle (°)	41.2	42.0	0.8	41.6	41.6	EX	-	-
Girdle Valley Minimum (%) *	-	-	-	2.22	STK	EX	-	-
Girdle Valley Maximum (%) *	-	-	-	2.53	STK	EX	-	-
Culet Size (%) *	-	-	-	0.00	NON	EX	-	-
Crown Height (%)	16.52	17.49	0.97	16.84	17.0	EX	-	-
Pavilion Depth (%)	42.60	43.43	0.83	43.00	43.0	EX	-	-
Total Depth (%)	-	-	-	63.48	63.5	-	-	-
Table offset (%)	-	-	-	0.093	-	EX	-	-
Culet offset (%)	-	-	-	0.170	-	EX	-	-
Table-Culet (%)	-	-	-	0.247	-	EX	-	-
Crown Painting (°)	-0.16	1.78	1.94	0.61	0.6	EX	-	-
Pavilion Painting (°)	1.87	3.02	1.15	2.50	2.5	EX	-	-
Sum Painting (°)	-	-	-	3.11	3.1	EX	-	-
Junction Twist (°)	-1.00	1.00	-	-	-	-	-	-
Twist (°)	0.03	1.67	-	-	-	-	-	-
Radius roundness by OctoNus	for window size 15°: 0.19				-	EX	-	-
	for window size 30°: 0.22				-	EX	EX	-
	for window size 45°: 0.24				-	EX	EX	-
	for window size 90°: 0.28				-	EX	EX	-
Table edge (%)	20.44	21.43	1.00	20.99	-	-	-	-
Virtual table edge (%)	20.44	21.43	1.00	20.99	-	-	-	-
Table edge junction (%)	0.00	0.00	0.00	0.00	-	-	-	-
Table angle (°)	134.5	135.5	1.0	135.0	-	-	-	-
Bezel width (%)	28.68	29.67	0.99	29.16	-	-	-	-

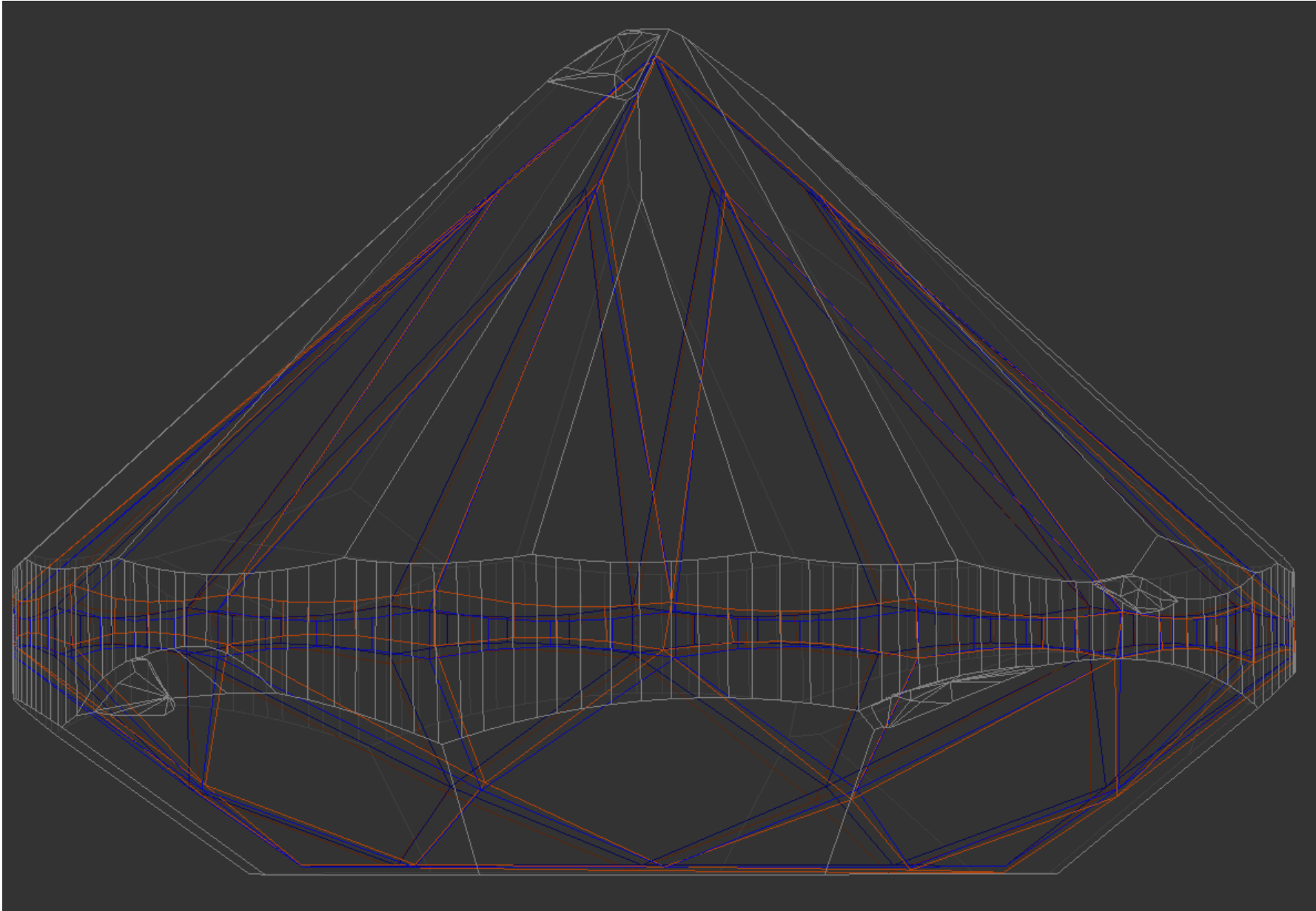
Estimated Intermediate GIA Cut Grade: EX EX EX

Estimated Final GIA Cut Grade: EX EX EX

Report generated successfully



Gain – Weight of 0.016 Ct / Value of \$ 260 (1.9%)



Compare report – 1.0625 with 1.0785

COMPARATIVE REPORT FOR BRILLIANT

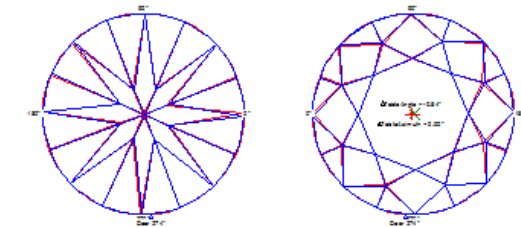
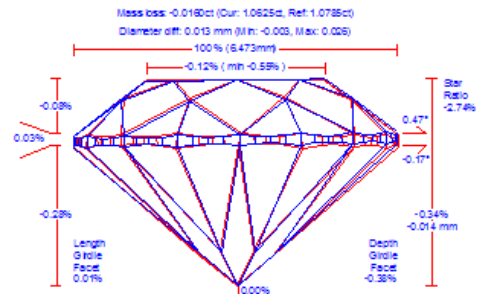
Polished Brilliant 22.9.2015

Current model: 1
Reference model: 9
Report type: Comparative (Reference - Current), Frozen

Expert name: N/A
 ΔReal weight, ct: N/A
 ΔCalculated weight, 0.02, 0.0160
 ΔSpread: -0.01 ct, -1.00 %
 ΔAGS Spread: -0.01 ct, -0.98 %

ΔRatio (L/W)	ΔMinimum Diameter	ΔMaximum Diameter	ΔTotal height
-0.001	0.013 mm	0.008 mm	-0.014 mm

ΔCrown height	ΔPavilion depth	ΔTable	ΔCulet	ΔGirdle	
				Bezel	Valley
-0.003 mm	-0.013 mm	-0.001 mm	0.000 mm	0.002 mm	0.025 mm



— Current cutting
 — Reference cutting
 + Current culet center
 × Current table center

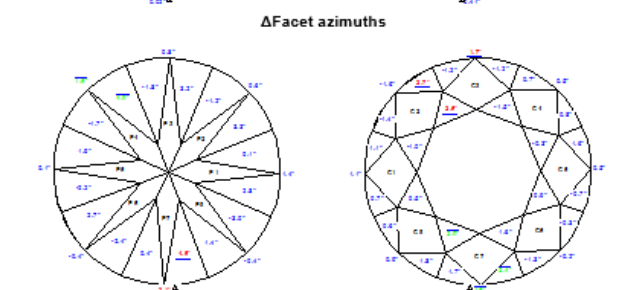
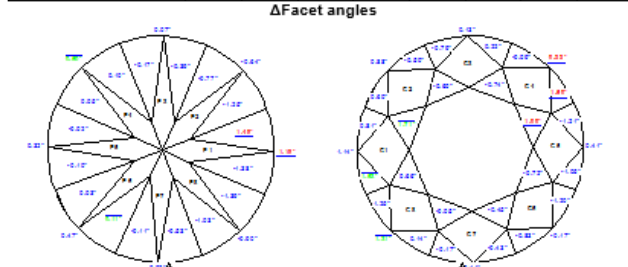
Circles indicate reference culet and table centers
 Circles diameters are: 9.8%, 4.8%, 2.4%, 1.2%

Table center offset: 0.012 mm 0.19 %
 Culet center offset: 0.033 mm 0.51 %

Parameter	Avg	Min	Max	Dev
ΔDiameter, mm	0.013	-0.003	0.026	
ΔCrown angle, °	0.47	-0.33	1.31	1.64
ΔPavilion angle, °	-0.17	-1.19	0.50	1.89
ΔTotal height, %	-0.34			
ΔCrown height, %	-0.08	-0.78	0.76	1.54
ΔCrown height bone, %	-0.18	-0.95	0.77	1.72
ΔPavilion depth, %	-0.28	-1.34	0.38	1.72
ΔPavilion depth bone, %	-0.95	-1.98	-0.18	1.80
ΔTable, %	-0.12	-0.55	0.43	0.98
ΔCulet, %	0.00	0.00	0.00	0.00
ΔGirdle Bezel, %	0.03	-0.22	0.25	0.46
ΔGirdle Bone, %	0.79	0.51	0.95	0.44
ΔGirdle Valley, %	0.38	0.26	0.56	0.30
ΔStar:		-4.94:	-0.55:	4.39
ΔUpper ratio, %	2.74	0.55	4.94	
ΔStar angle, °	-0.15	-1.00	1.71	2.70
ΔUpper girdle angle, °	-0.20	-1.50	1.53	3.03
ΔLength girdle facet, %	0.01	-0.04	1.59	2.53
ΔLower girdle angle / ΔHalves angle, °	-0.52	-1.49	0.11	1.80
ΔCrown height, mm	-0.003	-0.049	0.051	0.100
ΔPavilion height, mm	-0.013	-0.081	0.030	0.111
ΔTable, mm	-0.001	-0.029	0.035	0.064
ΔCulet, mm	0.000	0.000	0.000	0.000
ΔGirdle Bezel, mm	0.002	-0.014	0.016	0.030

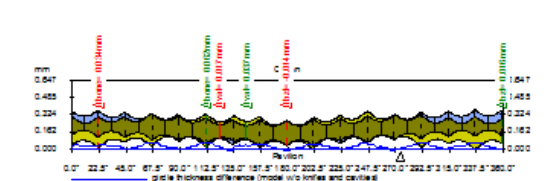
Measurement as per OctoNus theory:

	Avg	Min	Max	Dev	1	2	3	4
ΔCrown angle, °	0.47	0.27	0.78	0.51	0.78	0.36	0.27	0.49
ΔPavilion angle, °	-0.17	-0.44	0.04	0.48	-0.44	-0.08	0.04	-0.20

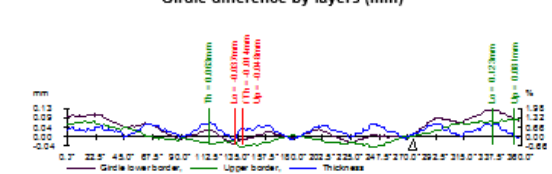


1	2	3	4	5	6	7	8
0.016	0.001	0.018	0.008				
1.14	0.88	0.13	-0.33	0.41	-0.17	0.41	1.31
-1.19	-0.64	0.07	0.50	0.32	0.47	0.02	-0.90
0.76	0.36	-0.47	-0.78	-0.16	-0.89	-0.29	0.65
0.76	-0.24	-0.73	-0.89	-0.50	-0.95	0.16	0.77
-1.34	-0.75	0.09	0.38	0.05	0.34	0.06	-1.09
-1.61	-0.96	-0.56	-0.39	-0.55	-0.18	-1.37	-1.98
-0.55	-0.18	0.43	-0.17				
0.25	0.05	0.04	0.07	-0.22	0.01	-0.11	0.10
0.51	0.86	0.95	0.74	0.72	0.80	0.87	0.87
0.49	0.48	0.37	0.42	0.29	0.26	0.56	0.28
0.28	0.42	0.38	0.37	0.35	0.38	0.46	0.34
-0.55:	-4.70:	-0.79:	-4.94:	-4.92:	-0.74:	-4.70:	-0.60:
0.55	4.70	0.79	4.94	4.92	0.74	4.70	0.60
1.71	-0.60	-0.74	-1.00	-0.72	-0.45	-0.05	0.68
0.81	0.60	-0.50	-0.79	0.22	-0.09	-1.50	-1.21
-1.05	-1.20	-0.83	-0.43	-0.17	0.14	1.25	1.53
1.59	1.59	-0.92	-0.92	-0.94	-0.94	1.55	1.55
1.55	1.55	-0.93	-0.93	-0.92	-0.92	-0.90	-0.90
-1.49	-1.25	-0.77	-0.39	-0.17	0.10	0.05	-0.02
-0.10	0.03	0.11	-0.11	-0.53	-1.03	-1.39	-1.38
0.051	0.025	-0.028	-0.049	-0.008	-0.042	-0.017	0.044
-0.081	-0.043	0.011	0.030	0.008	0.027	0.009	-0.085
-0.029	-0.005	0.035	-0.004				
0.016	0.004	0.003	0.005	-0.014	0.001	-0.006	0.007

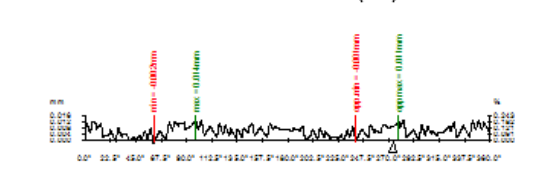
Girdle difference (mm)



Girdle difference by layers (mm)



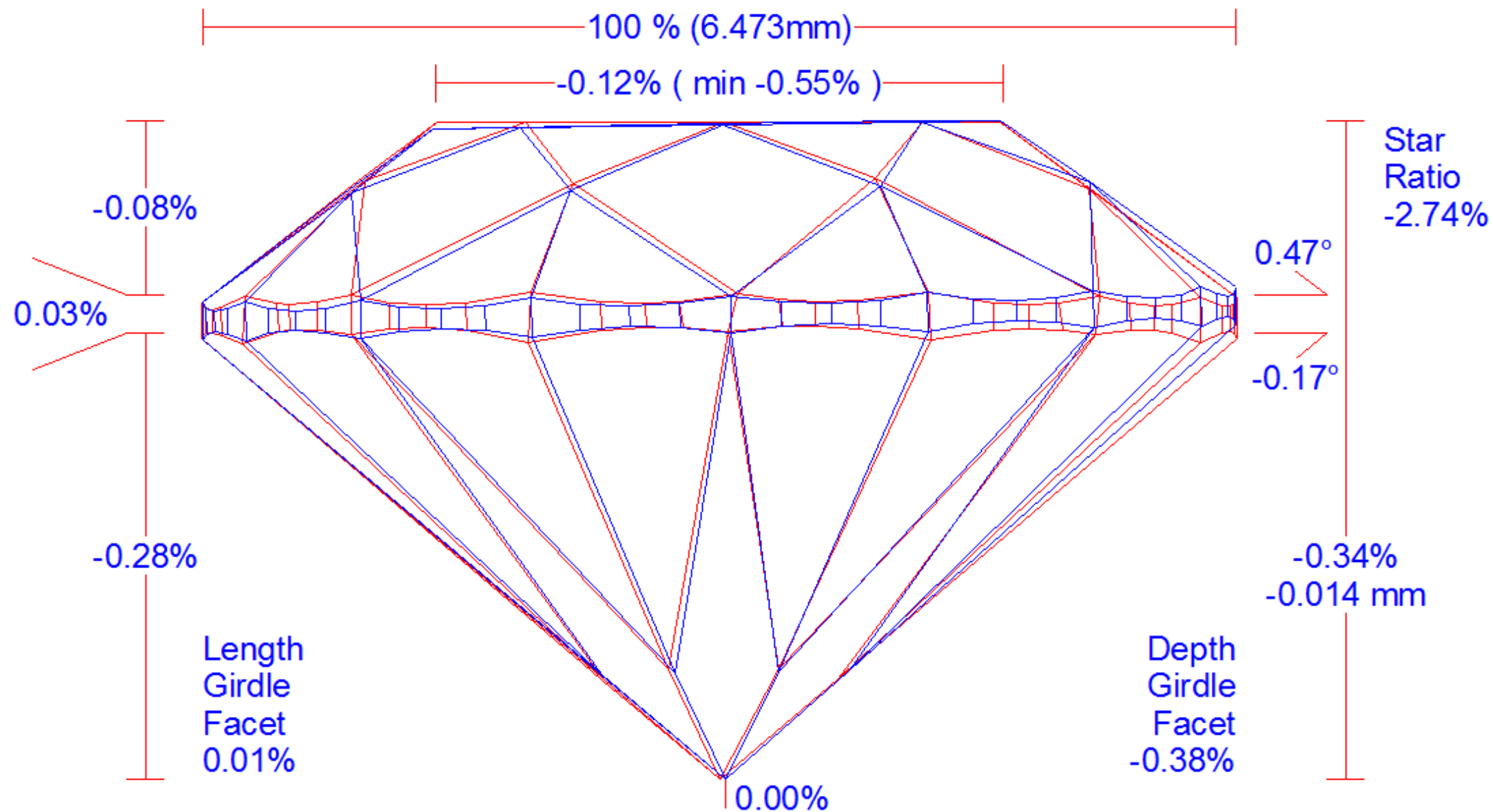
Radius-vector difference (mm)



Reference girdle (yellow)
 Current girdle (blue)

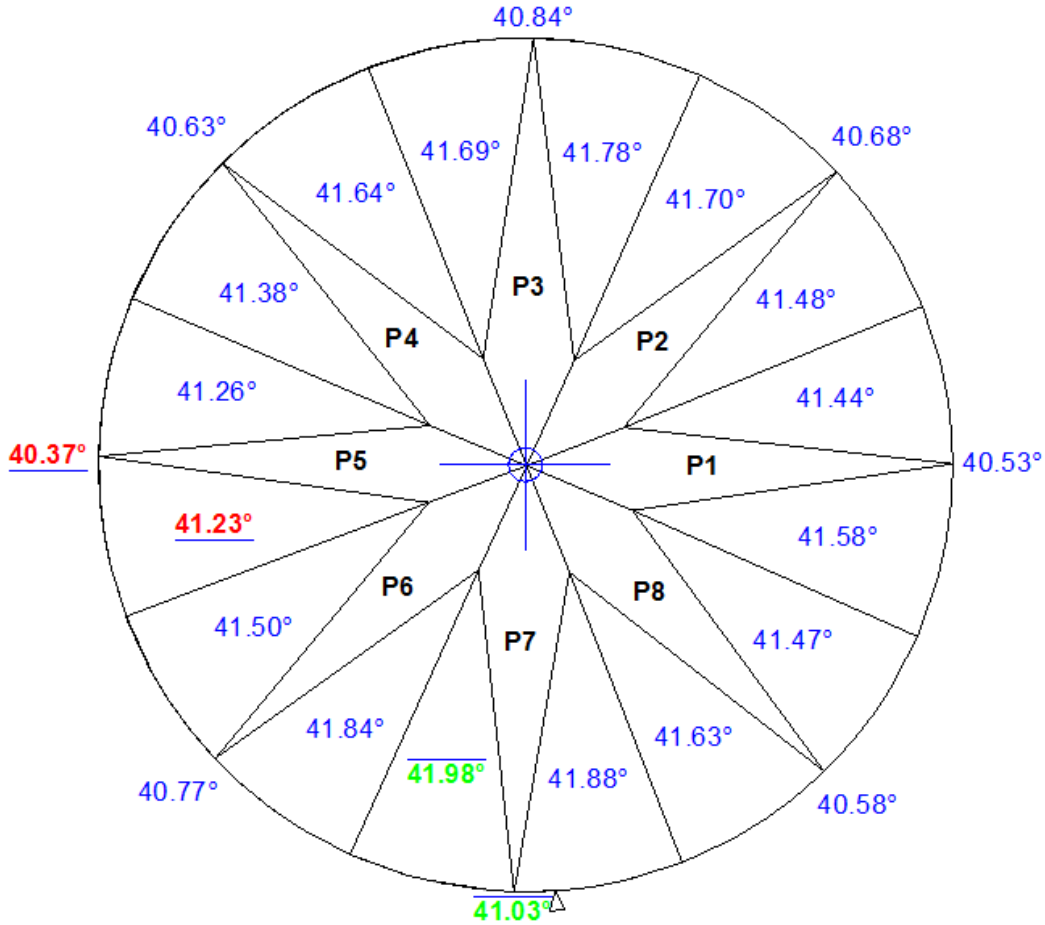
Mass loss: -0.0160ct (Cur: 1.0625ct, Ref: 1.0785ct)

Diameter diff: 0.013 mm (Min: -0.003, Max: 0.026)

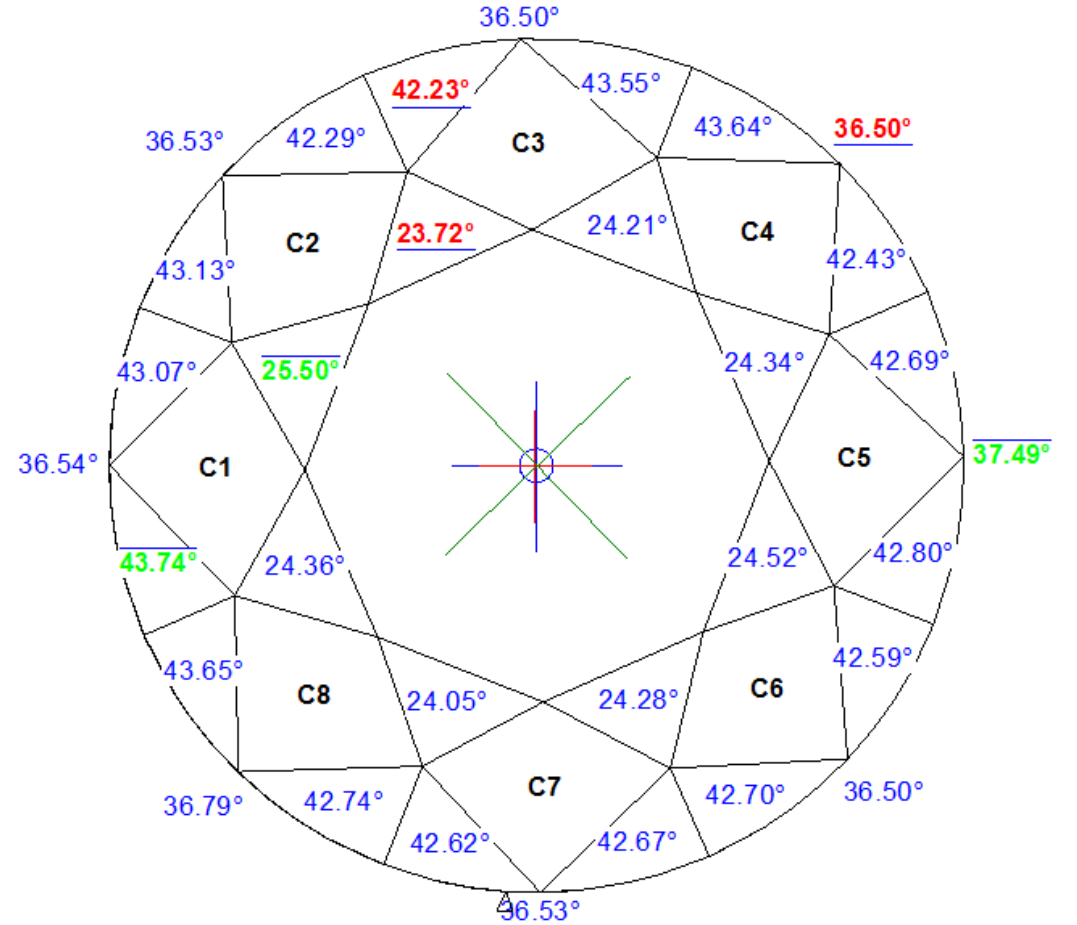


Asymmetric Solution of 1.0785 Ct

Pavilion main facets slope angles.
Invisible edges are drawn taking refraction into account

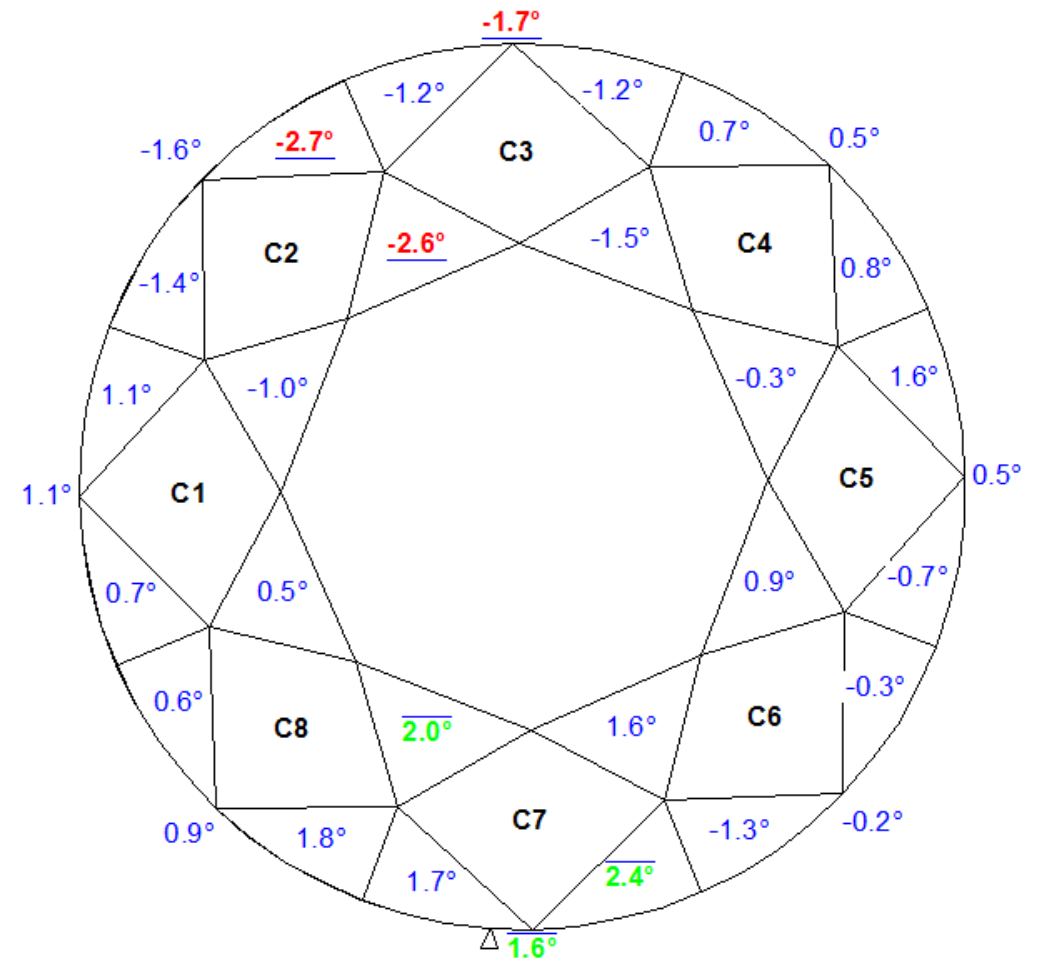
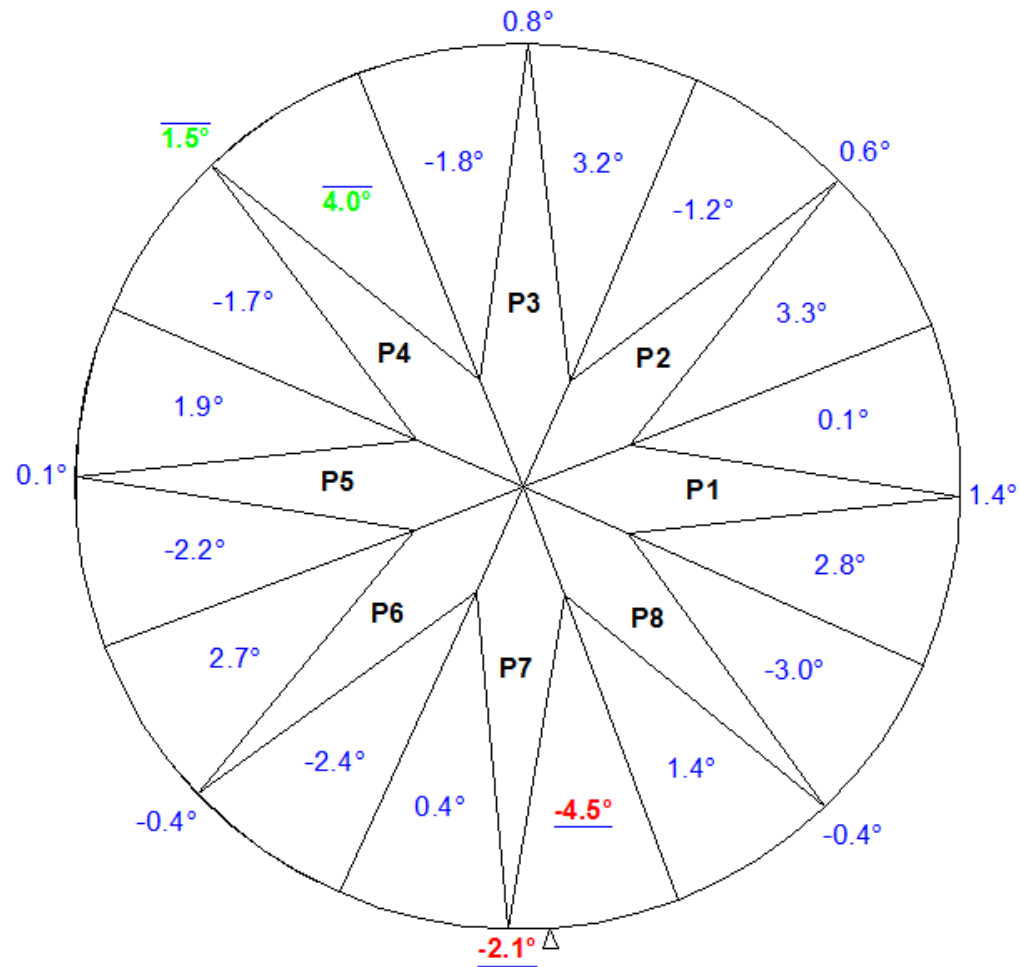


Crown main facets slope angles.
Invisible edges are drawn taking refraction into account



Asymmetric Solution of 1.0785 Ct

Δ Facet azimuths



Compare report – guiding polisher to achieve final sol.

TARGET REPORT FOR BRILLIANT

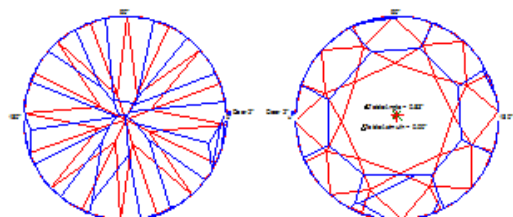
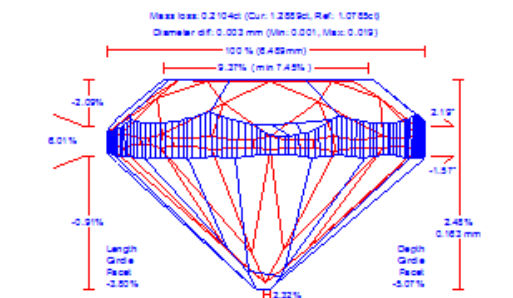
Semi-Polished Brilliant 22.9.2015

Current model: Active scan
Reference model: 9
Report type: Target (Current - Reference), Frozen

Expert name: N/A
ΔReal weight, ct: N/A
ΔCalculated weight: 0.21, 0.2104
ΔSpread: -0.21 ct, -20.56 %
ΔAGS Spread: N/A ct, N/A %

ΔRatio (L/W)	ΔMinimum Diameter	ΔMaximum Diameter	ΔTotal height
-0.001	0.008 mm	0.000 mm	0.163 mm

ΔCrown height	ΔPavilion depth	ΔTable	ΔCulet	ΔGirdle		
				Bezel	Bone	Valley
-0.135 mm	-0.050 mm	0.609 mm	0.151 mm	0.390 mm	0.443 mm	0.488 mm



Legend:
— Current cutting
— Reference cutting
+ Current culet center
x Current table center

Circles indicate reference culet and table centers
Circles diameters are: 9.6%, 4.8%, 2.4%, 1.2%

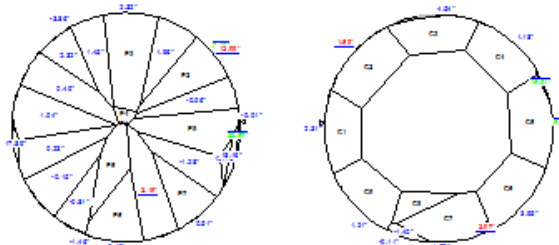
Table center offset: 0.057 mm 0.87 %
Culet center offset: 0.047 mm 0.73 %

Parameter	Avg	Min	Max	Dev
ΔDiameter,mm	0.003	0.001	0.019	
ΔCrown angle,°	2.19	-1.53	5.63	7.17
ΔPavilion angle,°	-1.57	-12.08	2.49	14.57
ΔTotal height,%	2.48			
ΔCrown height,%	-2.09	-3.83	0.43	4.26
ΔCrown height bone,%	-3.95	-6.87	-0.41	6.26
ΔPavilion depth,%	-0.79	-1.80	0.03	1.83
ΔPavilion depth bone,%	-0.84	-1.50	0.58	2.07
ΔTable,%	9.37	7.45	11.59	4.13
ΔCulet,%	2.32	0.88	3.35	2.47
ΔGirdle Bezel,%	6.01	1.97	8.43	6.46
ΔGirdle Bone,%	6.82	4.43	9.36	4.93
ΔGirdle Valley,%	7.52	2.89	11.55	8.66
ΔStar:	N/A	N/A	N/A	N/A
ΔUpper ratio,%	N/A	N/A	N/A	N/A
ΔStar angle,°	N/A	N/A	N/A	N/A
ΔUpper girdle angle,°	3.95	-2.07	15.31	17.38
ΔLength girdle facet,%	-3.80	-52.99	22.19	75.18
ΔLower girdle angle / ΔHalves angle,°	4.92	-2.19	22.57	24.75
ΔCrown height,mm	-0.135	-0.248	0.029	0.277
ΔPavilion height,mm	-0.058	-0.125	0.009	0.134
ΔTable,mm	0.609	0.485	0.753	0.268
ΔCulet,mm	0.151	0.057	0.217	0.180
ΔGirdle Bezel,mm	0.390	0.128	0.547	0.419

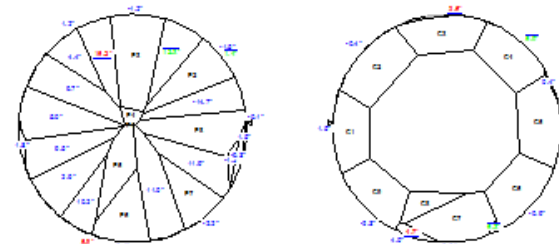
Measurement as per OctoNus theory:

	Avg	Min	Max	Dev	1	2	3	4
ΔCrown angle,°	2.74	1.21	3.97	2.76	3.97	1.21	3.06	N/A
ΔPavilion angle,°	-0.86	-2.66	0.94	3.60	0.94	-2.66	N/A	N/A

ΔFacet angles

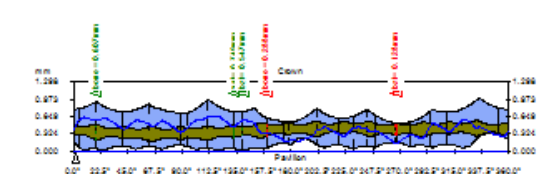


ΔFacet azimuths

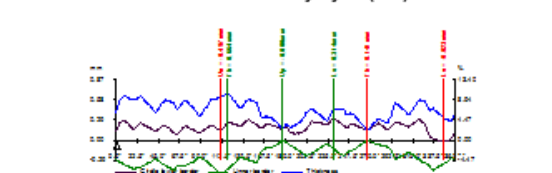


1	2	3	4	5	6	7	8
-0.005	-0.008	N/A	N/A				
2.31	-1.53	4.54	1.18	5.63	3.95	1.57	-0.11
-12.08	2.49	2.32	-3.86	-1.46	-0.45	0.51	-0.01
-3.39	-3.21	-2.73	-2.99	0.25	-1.03	-0.32	-3.29
-5.74	-5.31	-6.87	-3.80	-0.41	-3.95	-3.80	-2.17
-1.27	-0.56	-0.19	-1.49	-0.77	0.70	-0.41	-1.72
-1.24	-0.65	-0.99	-1.50	-0.54	0.58	-0.33	-0.44
11.59	7.45	7.62	10.82				
7.46	6.31	5.89	7.78	3.18	5.78	1.98	6.30
9.36	7.67	9.33	6.95	4.43	6.05	6.04	4.74
4.85	N/A	N/A	N/A	N/A	N/A	7.56	6.98
8.50	6.66	3.74	5.38	7.10	3.18	4.71	6.87
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-1.40	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	15.31	-2.07
N/A	N/A	6.78	-12.68	22.19	20.87	N/A	20.17
8.30	N/A	N/A	N/A	N/A	-52.99	-43.05	N/A
-0.06	1.96	1.45	2.32	0.49	1.04	17.89	0.23
-0.15	-0.81	-2.19	-1.28	12.16	18.16	22.67	N/A
-0.220	-0.208	-0.177	-0.194	0.016	-0.066	-0.020	-0.213
-0.110	-0.035	-0.011	-0.125	0.000	-0.080	0.009	-0.109
0.753	0.485	0.496	0.703				
0.484	0.409	0.382	0.505	0.206	0.375	0.128	0.409

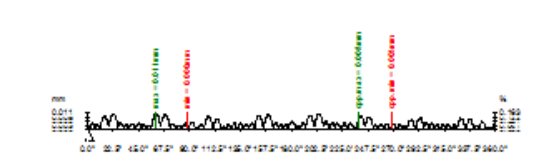
Girdle difference (mm)



Girdle difference by layers (mm)



Radius-vector difference (mm)



Legend:
Reference girdle (Yellow)
Current girdle (Blue)