



GEMKHANA 2023

COMPETITION SCHEDULE AND CONDITIONS

GEMKHANA 2023 – COMPETITION SCHEDULE AND CONDITIONS

GENERAL CONDITIONS

1. This is a Level 3 Competition and will be judged in accordance with the rules and definitions of the ***Competitor & Judging Manual for Lapidary and Allied Competitions Issue no. 8 April 2015***. (referred to in this Schedule as the Manual), unless otherwise stated in this Schedule.
2. All competitors are advised to familiarise themselves with all the “Conditions for Competitors” in the Manual (particularly pages 5 to 13)
3. Competitors should be aware of, or check their eligibility to enter a Novice or Intermediate Division either by: -
 - Reading Section B4 of the manual (pages 6 & 7) relating to Competition Divisions, or by
 - checking the updated results list on the AFLACA website (<http://aflaca.org.au>)
4. Enquiries, correspondence and ALL POSTAL ENTRIES relating to this Competition should be directed to:

GEMKHANA Competition Committee 2023

P.O. Box 188

Orange NSW

2800

Phone enquiries to Kathy Selwood: 0437 917 074

5. Maximum number of entries allowed is two (2) per person per section except for Showcase Sections where only one entry per person is allowed.
6. It is the Competitor’s responsibility to ensure that their entries are entered in the correct section and that the sections are correctly marked on the Entry Form. If in doubt ring the Competition Committee.

However, the Competition Committee may transfer an entry into another section if they are of the opinion that it has obviously been enter in the incorrect section.

7. Entry Fees: - \$1.00 per entry for the first 10 entries, thereafter free.
(Payable by cheque or money order to Gem & Lapidary Council of NSW Inc)
8. All entries not being collected in person at the GEMKHANA must be accompanied by the **cost of return** post or **pre-paid post bag** included with the entry form (see Page 13).
9. While every care will be taken, the GEMKHANA 2023 Committee will not accept any responsibility for the loss or damage of any entries or exhibits that may occur in transit or whilst in the possession of the GEMKHANA 2023 committee.
10. Competitors and exhibitors are responsible for the insurance of their entries or exhibits while in transit, and whilst in the possession of the GEMKHANA 2023 Committee.

11. How to enter the Competition – Sections 1 to 4, 8 to 13 and 18 to 26

- a. Package up your entries to cushion them from damage whilst in transit – also see SC3.
- b. Fill out an official entry form – see page 13 of this Schedule.
- c. If you want acknowledgement of receipt of your entries, include a stamped, self-addressed envelope.
- d. Organise a cheque or money order payable to the Gem & Lapidary Council of NSW Inc for the entry fees (and return express postage if you are not collecting the entries in person at the GEMKHANA.
- e. Submit your Entries + Entry Form + All fees to the Competition Committee. This can either be:
 - By Express post to
GEMKHANA 2023 Committee
P.O. Box 188 Orange
NSW 2800

They must be received by Friday 18th August 2023

- By hand delivery to
Kathy Selwood,
At Parramatta/Holroyd Lapidary
Club, Fullagar Rd,
Wentworthville

Between 12 noon and 2.00pm on Wednesday 23rd August 2023

NOTE that late entries will not be eligible for competition and will be returned.

12. How to Enter the Competition – Sections 5, 16, 17, 29, 32, 34 and showcases

- a. Send your Entry Form and All Entry Fees to **arrive by Friday 18th August 2023** to:-
GEMKHANA 2023 Competition Committee
P.O. Box 188 Orange
NSW 2800
- b. Hand deliver the entries to the Competition committee in the Competition Hall **at the GEMKHANA 2023 VENUE between 1pm and 5pm on Friday 22nd September 2023**
- c. Note that entries in Sections 29, 32 & 34 must be set up and ready in the Exhibition Hall by **5.00pm Friday 22nd September 2023**

13. Judging, Judging Sheets and Entry Pickup

- a. Entries in Sections 1 to 4, 8 to 13, 18 to 26 will be judged prior to the GEMKHANA.
- b. Entries in Sections 5, 16, 17, 29, 32, and 34 will be judged at the GEMKHANA.
- c. Judging Sheets may be collected from the Competition Office between 10am and 12 noon on **Sunday 24th September 2023**
- d. Entries may be collected between 6pm and 7pm on **Sunday 24th September 2023**
- e. Entries not collected will be returned to the competitor in the manner specified on the entry form together with the applicable judging sheets.

14 SPECIAL CONDITIONS (SC)

SCI – Sizes and Tolerances

Where an entry does not conform to the size conditions in this Schedule or the Manual it will be ruled ineligible and not judged. Refer to section definitions in the Schedule and the Manual for allowable tolerances.

SC2 – Carving (Section 5)

Each entry must have a label which best describes the exhibit for the viewer's interest including the material used. These labels will not be judged.

SC3 - Facet Entries (Section 8 to 11)

- a. All chosen designs have either been previously used in competitions or have been successfully test cut using instructions given
- b. **ALL** Facets are **FLAT**, any entry with Concave or Curved facets (except Section 8A continuous girdle) will be disqualified and will NOT be judged.
- c. **Minimum size** is 6mm measured across shortest axis of outline shape at the girdle, or as indicated on design sheet.
- d. Each faceted stone must be entered in a display box and this box must contain a label which contains only the following details:
 - Section Number
 - Material used
 - Colour of material
 - Size

SC4 – Tumbled Stones (Section 12A)

Please read page 19 (D2.2) and page 55 (D12.1) of the Manual for definition of this section.

SC5 – Jewellery (Sections 18 – 26)

Competitors should carefully read Part E of the Manual in relation to all Jewellery Sections.

15 TROPHIES AND MEDALLIONS

1. Medallions and prize cards will be awarded for 1st, 2nd, and 3rd placed entries. Highly Commended will receive a prize card only.
2. At the Committee's discretion, where there are insufficient entries in a Novice or Intermediate Sections, a Special Award May be nominated and such an award will not exclude a competitor from entering the same section in future competitions.
3. To be eligible in winning a 'Dick Moppett Trophy: in faceting, entries must achieve a minimum of 70 points for Novice and 90 points for Open.
4. Annual Trophies may be awarded in the following categories: -

SPECIAL ONE-OFF TROPHIES

Donated by Gem & Lapidary Council of NSW

Section N-1A.3 Novice Standard Cabochon -C/S-Highest Score

Section O-13.1 Open Polished Face-Flat Surface-Highest Score

Section N-19A.2 Novice Cast Jewellery not intended to include
Lapidary, Fossil or Mineral Item/s-Highest Score

THE JOAN BALL TROPHIES

Section O-26B.1 Open Enamelled Jewellery without Mount
-Highest Score

Section O-17.1 Open Novelty Gemcraft-Highest Score

THE ALAN COULTON TROPHY

Section O-20A.1 Open Cast Jewellery using Natural Objects as Patterns
-Highest Score

5. Perpetual Trophies may be awarded for the following :-

THE BORIS NOVIC TROPHY

Section O-2A.1 The competitor with the highest score in Section O-2A.1 Double Standard Cabochon – C/S

THE DICK MOPPETT TROPHY – NOVICE

Sections N-8B.3 & N-9B.3 For the Novice competitor with the highest aggregate point for two (2) faceted stones - one shall be **STANDARD BRILLIANT** and the other a **STANDARD STEP CUT**. Note that each entry must achieve a minimum standard of **70 points**.

THE DICK MOPPETT TROPHY – OPEN

Sections O-8B.1 & O-9B.1 For the Open Competitor with the highest aggregate points for two (2) faceted stones – one shall be **STANDARD BRILLIANT** and the other a **STANDARD STEP CUT**. Note that each entry must achieve a minimum standard of **90 points**.

THE ARTHUR ROFFEY TROPHY for “BEST MINERAL IN SHOW”

(As selected by the donor)

THE FRANK LANDER TROPHY for MOST SUCCESSFUL COMPETITOR

Points are awarded as:- 1st place – 6 points 2nd place – 4 points 3rd place – 2 points .
Highly Commended = 1 point. Special Award – 6 points

THE FRANK HALL TROPHY for MOST SUCCESSFUL CLUB

Points awarded as:- 1st place – 6 points, 2nd place – 4 points, 3rd place – 2 points.
Highly commended – 1-point, Special award – 6 points. Entries within 75% of the winning entry's score – 1 point.

GEMKHANA 2023 – COMPEITION SCHEDULE AND CONDITIONS

Judging will be in accordance with the AFLACA Competition and Judging Manual Issue No. 8

O= Open I = Intermediate N = Novice J = Junior TR = Trophy

C/S = Craftsmanship A/A = Aesthetic Appeal SC = Special Condition Applies

Standard Cabochon – Must not pass through a 15mm hole (SCI)

O-1A.1	Standard Cabochon	C/S – Any Material	
I-1A.2	Standard Cabochon	C/S – Any Material	
N-1A.3	Standard Cabochon	C/S – Any Material	TR
J-1A.4	Standard Cabochon	C/S - Any Material	
O-1A.5	Standard Cabochon	A/A Mookaite	
I-1A.6	Standard Cabochon	A/A Mookaite	
N-1A.7	Standard Cabochon	A/A Mookaite	
J-1A.8	Standard Cabochon	A/A Mookaite	

Fancy Cabochon – Minimum Dimension to be not less than 30mm on the longest Dimension across the outline shape (SCI)

O-1B.1	Fancy Cabochon	C/S – Pet Wood
I-1B.2	Fancy Cabochon	C/S – Pet Wood
N-1B.3	Fancy Cabochon	C/S – Pet Wood
J-1B.4	Fancy Cabochon	C/S – Any Material
O-1B.5	Fancy Cabochon	A/A – Any Material
I-1B.6	Fancy Cabochon	A/A – Any Material
N-1B.7	Fancy Cabochon	A/A – Any Material
J-1B.8	Fancy Cabochon	A/A – Any Material

Double Standard Cabochon - must not pass through a 15mm hole (SCI)

O-2A.1	Double Standard Cabochon	C/S – Any material	TR
I-2A.2	Double Standard Cabochon	C/S – Any material	
N-2A.3	Double Standard Cabochon	C/S – Any material	

Double Fancy Cabochon – Must not pass through a 15 mm hole (SCI)

O-2B.1	Double Fancy Cabochon	C/S – Any Material
I-2B.2	Double Fancy Cabochon	C/S – Any Material
N-2B.3	Double Fancy Cabochon	C/S – Any Material

Freeform – Must not pass through 15mm hole (SCI)

O-3.1	Freeform	C/S – Any Material
I-3.2	Freeform	C/S – Any Material
N-3.3	Freeform	C/S – Any Material
J-3.4	Freeform	C/S – Any Material

Freeform – Must not pass through 10mm hole (SCI)

O-3.5	Freeform	C/S – Opal Solid
N-3.6	Freeform	C/S – Opal Solid

Opal Doublets- Must not pass through 10mm hole (SCI)

O-4A	Opal Doublet – Flat Top
O-4B	Opal Doublet – Domed Top

Carving – Hardness under 4 – Minimum size 50mm on the longest dimension (excluding base or mount) – Maximum size 300mm (including base of mount) (SCI and SC2)

O-5A.1	Carving – 3 dimensional
N-5A.2	Carving – 3 dimensional

Carving – Any Hardness – Minimum size 50mm on the longest dimension (excluding base or mount) Maximum size 300mm (including base or mount) (SC1 and SC2)

O-5B.1	Carving – in relief
N-5B.2	Carving – in relief

Carving – any hardness – minimum size 50 mm on the longest dimension (excluding base or mount) – maximum size 300mm (including base or mount) (SCI and SC2)

O-5E.1	Carving not otherwise specified in Groups 5A to 5D
N-5E.2	Carving not otherwise specified in Groups 5A to 5D

Facet Cuts – Minimum size 6mm on shortest axis of outline shape – Groups 8, 9, 10 and 11 – (SC1 and SC3)

O-8B.1 I-8B.2 N-8B.3	Standard Round Brilliant with Faceted Girdle	Labradorite	TR
O-9B.1 I-9B.2 N-9B.3	Standard Square Step Cut with Cut corners	Colourless Quartz	TR
O-10.1	Modified Standard Cut – DFW Pendoleque	MM Coloured MM Corundum	
I-10.2	Modified Standard Cut – Smithsonian Bar Pixel Variation	Yellow Cubic Zirconia	
N-10.3	Modified Standard Cut – Superimposition R	MM Coloured Corundum	
O-11.1	Fancy Cut – 12 Main Shield Brilliant No 8	MM Coloured Corundum	
I-11.2	Fancy Cut – Easy Barion Scissor Crown Apex	Coloured Cubic Zirconia	
N-11.3	Fancy Cut – Mini Cube Illusion Triangle	Coloured Cubic Zirconia	

Tumbled Stones – must not be able to pass through a 15mm diameter hole (SC4)

O-12A.1	Tumbled Stones – Preformed Shape	Group of 3- different materials
N-12A.2	Tumbled Stones – Preformed Shape	Group of 3 – Any material
O-12B.1	Tumbled Stones- Natural Shape	Group of 3- Any material
N-12B.2	Tumbled Stones- Natural Shape	Group of 3- Any Material

Polished Face – Minimum size 50mm across shortest axis – Maximum size 300mm on any dimension

O-13.1	Polished Flat Surface	C/S	TR
N-13.2	Polished Flat Surface	C/S	
J-13.3	Polished Flat Surface	C/S	
O-14.1	Polished Curved Surface	A/A	
N-14.2	Polished Curved Surface	A/A	
J-14.3	Polished Curved Surface	A/A	

Gem Trees - must fit in 300mm cube but must not fit in a 150mm cube (SC1)

O-16.1	Gem Tree
N-16.2	Gem Tree

Novelty Gemcraft – Minimum size 50mm on the longest dimension excluding base (SC1)

O-17.1	Novelty Gem craft	TR
N-17.2	Novelty Gem craft	

Hand Fabricated and Wire Wrapped Jewellery (SC5)

O-18A.1	Hand Fabricated Jewellery	NOT intended to include Lapidary, Fossil or Mineral Specimen (s)	
I-18A.2	Hand Fabricated Jewellery –	NOT intended to include Lapidary, Fossil or Mineral Specimen (s)	
N-18A.3	Hand Fabricated Jewellery –	NOT intended to include Lapidary, Fossil or Mineral Specimen (s)	
O-18B.1	Hand Fabricated Jewellery--	WITH lapidary Item (s) cut and set by entrant	
I-18B.2	Hand Fabricated Jewellery –	WITH lapidary item(s) cut and set by entrant	
N-18B.3	Hand Fabricated Jewellery –	WITH lapidary item(s) cut and set by entrant	
O-18E.1	Wire Wrapped Jewellery-	WITH Lapidary, Fossil or Mineral Items(s) prepared/ set by entrant	
N-18E.2	Wire Wrapped Jewellery	WITH Lapidary. Fossil or Mineral Item (s) prepared/ Set by entrant	

Cast Jewellery – using Patterns, mould or Dies MADE BY ENTRANT (SC5)

O-19A.1	Cast Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s)	
N-19A.2	Cast Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s)	TR

Metal Clay Jewellery – using Patterns, Moulds or Dies MADE BY ENTRANT(SC5)

O-19E.1	Metal Clay Jewellery	NOT intended to include Lapidary, Fossil or Mineral Item(s)	
N-19E.2	Metal Clay Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s)	

Cast Jewellery – using Natural Objects as Patterns (SC5)

O-20A.1	Cast Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s)	TR
N-20A.2	Cast Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s)	

Metal Clay Jewellery – using natural Object as Patterns (SC5)

O-20E.1	Metal Clay Jewellery	NOT intended to include lapidary, fossils or minerals	
N-20E.2	Metal Clay Jewellery	NOT intended to include lapidary, fossils or minerals	

Cast Jewellery – using Commercial Wax Models or Patterns (SC5)

O-21B.1 Cast Jewellery **WITH** Lapidary Item(s) Cut and Set by Entrant
N-21B.2 Cast Jewellery **WITH** Lapidary Item(s) Cut and Set by Entrant

Metal Clay Jewellery – using Commercial Wax Models or Patterns (SC5)

O-21G.1 Metal Clay Jewellery **WITH** Commercial Lapidary Item(s) set by Entrant
N-21G.2 Metal Clay Jewellery **WITH** Commercial Lapidary Item(s) set by Entrant

Combined Jewellery – with Lapidary Items cut and set by Entrant (SC5)

O-23B.1 Combined Jewellery **WITH** lapidary items cut & set by Entrant

Enamelled Jewellery in Hand Fabricated Setting (SC5)

O-24A.1 Enamelled Jewellery in hand fabricated setting
N-24A.2 Enamelled Jewellery in hand fabricated setting

Commercial Mount Jewellery (SC5)

O-25.1 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant
I-25.2 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant
N-25.3 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant

Enamelling Sections (SC5)

O-26A.1 Enamelled Jewellery in Commercial Mount
N-26A.2 Enamelled Jewellery in Commercial Mount
O-26B.1 Enamelled Jewellery without Mount **TR**
N-26B.2 Enamelled Jewellery without Mount
O-26C.1 Enamelling – non-Jewellery
N-26C.2 Enamelling – non-Jewellery

Showcases

O-29B.1 Showcase General – LIT

Fossils

O-32A.1 Fossils Non-Display – Any Locality

N-32A.2 Fossils Non-Display Any locality

O-32B.1 Fossils Non-Display Group of 3 Invertebrates

N-32B.2 Fossils Non-Display Group of 3 Invertebrates

Minerals

O-34A.1 Mineral Non-Display Single Specimen Any Locality Cabinet Size

N-34A.2 Mineral Non-Display Single Specimen Any Locality Cabinet Size

O-34A-3 Mineral Non-Display Single Specimen Any Locality Miniature

N.34A.4 Mineral Non-Display Single Specimen Any Locality Miniature

O-34B.1 Mineral Non -Display Group of Three Any Locality Thumbnail

N-34B.2 Mineral Non -Display Group of Three Any Locality Thumbnail

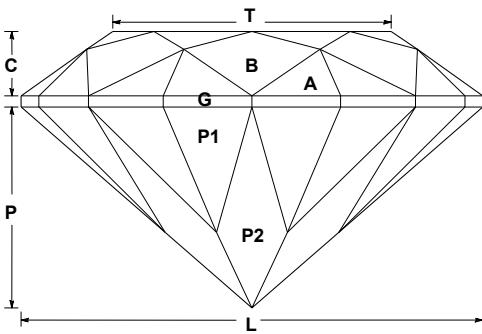
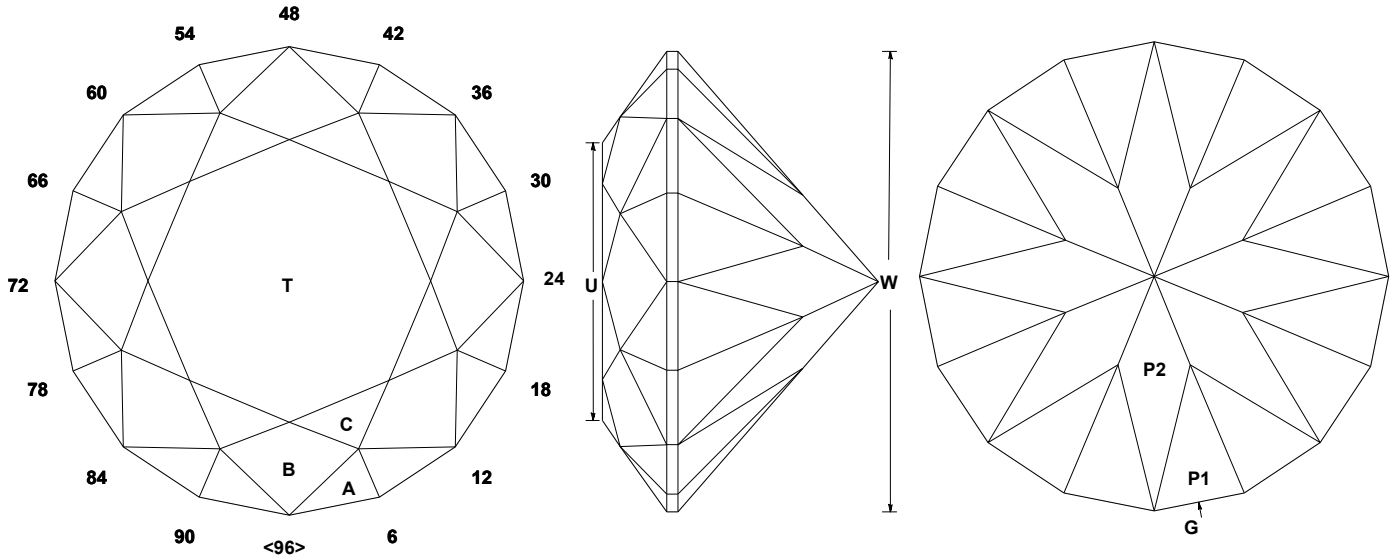
2023 GEMKHANA

Section: O-8B.1, I-8B.2, N-8B.3, Standard Round Brilliant with Faceted Girdle

Material: Labradorite

Facets: 57 + 16 girdles =73 (Crown=33 Pavilion=24)

Meets: 57 (Crown =32 Pavilion=25)



Standard Brilliant with Faceted Girdle

Angles for R.I. = 1.54

57 + 16 girdles = 73 facets

8-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.602$ $U/W = 0.602$

$P/W = 0.435$ $C/W = 0.139$

$Vol. /W^3 = 0.206$

PAVILION

P1 43.00° 03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93

Cut to TCP

G 90.00° 03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93

Set size

P2 41.00° 96-12-24-36-48-60-72-84

Form PCP, meet P1, G

CROWN

A 42.00° 03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93

Set girdle thickness

B 35.00° 96-12-24-36-48-60-72-84

Cut to meet A, G

C 20.00° 06-18-30-42-54-66-78-90

Cut to meet A, B

T 0.00° Table

Cut to meet B, C

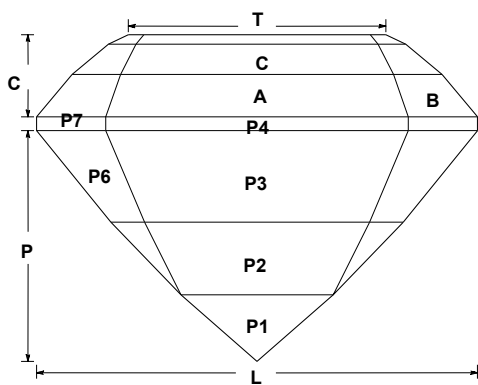
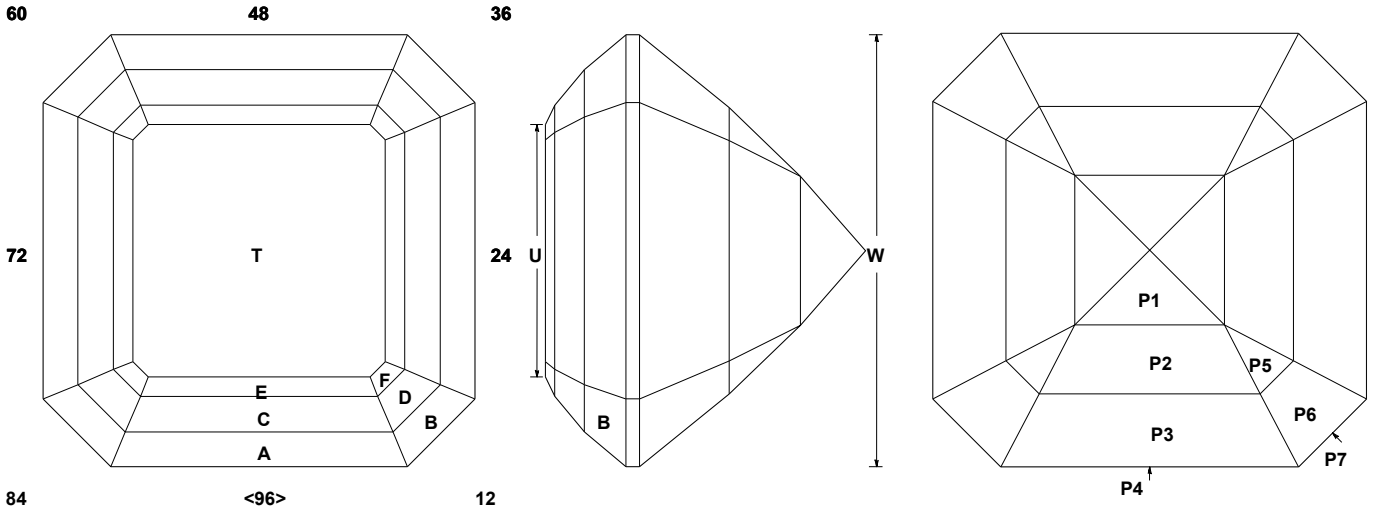
2023 GEMKHANA

Section: O-9B.1, I-9B.2, N-9B.3, Standard Square Cut with Cut Corners

Material: Colourless Quartz

Facets: 45 + 8 girdles = 53 (Crown=25 Pavilion=20)

Meets: 45 (Crown =24 Pavilion=21)



Standard Square Step Cut with Cut Corners

Plan view ratios: Pav. 2:2:2, Cr. 2:2:1

Angles for R.I. = 1.540

45 + 8 girdles = 53 facets

4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.584$ $U/W = 0.584$

$P/W = 0.523$ $C/W = 0.186$

$Vol. /W^3 = 0.342$

PAVILION

P1	41.00°	96-24-48-72	Set PCP
P2	46.00°	96-24-48-72	Cut to estimate
P3	51.00°	96-24-48-72	Cut to estimate
P4	90.00°	96-24-48-72	Set size, form girdle line
P5	44.00°	12-36-60-84	Meet P1, P2,
P6	49.00°	12-36-60-84	Level, meet P2, P3, P5
P7	90.00°	12-36-60-84	Level girdle, meet P3, P4, P6

CROWN

A	50.00°	96-24-48-72	Set girdle thickness
B	50.00°	12-36-60-84	Level, meet A, P4, P7
C	40.00°	96-24-48-72	Cut to estimate
D	40.00°	12-36-60-84	Level, meet A, B, C
E	25.00°	96-24-48-72	Cut to estimate
F	25.00°	12-36-60-84	Level, meet C, D, E
T	0.00°	Table	Cut to estimate, Meet E, F

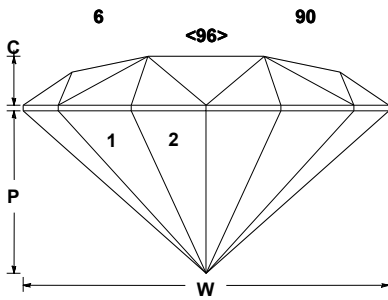
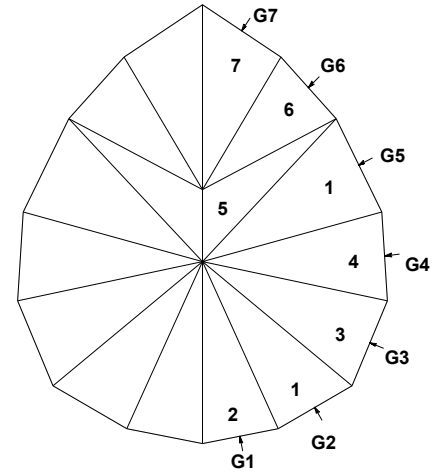
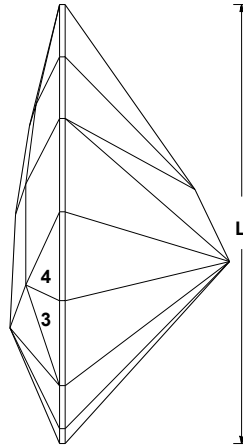
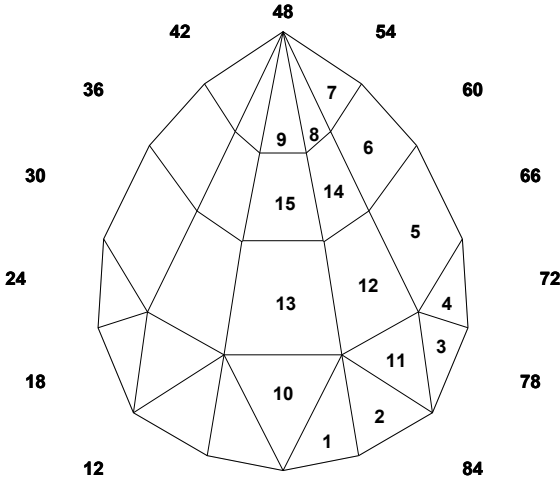
2023 GEMKHANA

Section: O-10.1 DFW Pendeloque

Material: Any Coloured MM Corundum

Facets: 42 + 14 girdles =56 (Crown=26 Pavilion=16)

Meets: 42 (Crown =26 Pavilion=16)



DFW Pendeloque

Strickland, Robert W.

Angles for R.I. = 1.760

42 + 14 girdles = 56 facets

1-fold, mirror-image symmetry

96 index

$L/W = 1.189$

$P/W = 0.445$ $C/W = 0.135$

$Vol. /W^3 = 0.202$

PAVILION

1	42.03°	31-65	Create PCP
1	42.03°	08-88	Cut to PCP
2	42.63°	03-93	Meet P1-PCP
3	41.52°	18-78	Meet P1-P2-at PCP
5	40.89°	33-63	Meet P1-P2-P3-P4- at PCP
G1	90.00°	03-93	
G2	90.00°	08-88	
G3	90.00°	18-78	
4	42.13°	25-71	Meet P1-P2-P3-at PCP
G4	90.00°	25-71	
G5	90.00°	31-65	
6	41.52°	35-61	Meet P1-P5-girdle
G6	90.00°	35-61	Level girdle
7	40.14°	39-57	
G7	90.00°	39-57	Level girdle

CROWN

1	26.14°	03-93	Match pavilion
2	27.67°	08-88	Level girdle
3	33.33°	18-78	Level girdle
4	35.15°	25-71	Level girdle
5	25.40°	31-65	Level girdle
6	23.29°	35-61	Level girdle
7	22.51°	39-57	Level girdle
8	14.25°	46-50	Meet C7-C7-girdle
9	13.79°	48	Meet C7-C8-C8-C7-girdle
10	23.37°	96	Meet C1-C1-girdle
11	25.02°	14-82	Meet C2-C3-girdle
12	10.34°	31-65	Meet C1-C2-C10-C11
13	3.11°	48	Meet C1-C2-C10-C11-C12
14	11.43°	40-56	Meet C6-C7-C8
15	8.86°	48	Meet C8-c9-C8-C14

(Great cut for shallow material)

2023 GEMKHANA

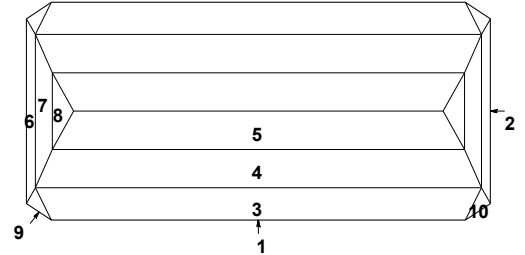
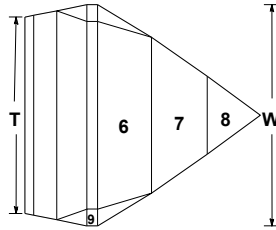
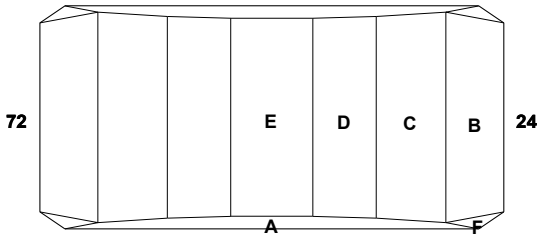
Section: I-10.2 Smithsonian Bar Pixel Variation

Material: Yellow Cubic Zirconia

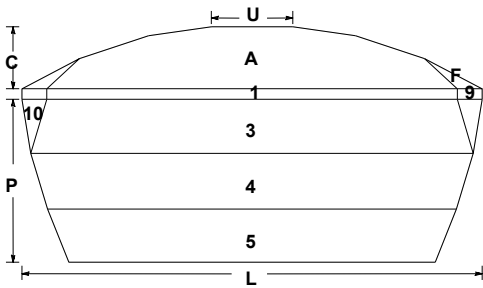
Facets: 29 + 8 girdles = 37 (Crown=13 Pavilion=16)

Meets: 28 (Crown =12 Pavilion=16)

60 48 36



84 <96> 12



Smithsonian Bar Pixel Variation

Original by Jeff Graham,

Modified with End Facets 6, 7 & 8 Paul Sabolta 2022

Angles for R.I. = 2.160

29 + 8 girdles = 37 facets

2-fold, mirror-image symmetry

96 index

$L/W = 2.000$ $T/W = 0.882$ $U/W = 0.370$

$P/W = 0.733$ $C/W = 0.279$

$Vol. /W^3 = 1.224$

PAVILION

- 1 90.00° 96-48 Set Width
- 2 90.00° 24-72 Set Length
- 3 58.05° 96-48 Estimate ratio 2 : 2 : 2
- 4 55.55° 96-48 Estimate ratio 2 : 2 : 2
- 5 53.59° 96-48 Estimate ratio 2 : 2 : 2
- 6 80.18° 24-72 Level Girdle
- 7 74.11° 24-72 Level Tier
- 8 68.00° 24-72 Level Tier

CROWN

- A 78.09° 96-48 Set Girdle thickness
- B 28.17° 24-72 Level Girdle
- C 17.97° 24-72 Estimate Ratio 2 : 2 : 2 : 2
- D 8.00° 24-72 Estimate Ratio 2 : 2 : 2 : 2
- E 0.00° Table Estimate Ratio 2 : 2 : 2 : 2

CORNERS

- F 52.94° 09-39-57-87 Cut corner to meet A,B,C
- 9 90.00° 09-39-57-87 Cut Girdle Corner
- 10 70.53° 09-39-57-87 Cut Corner to meet 3,4,6,7, level girdle

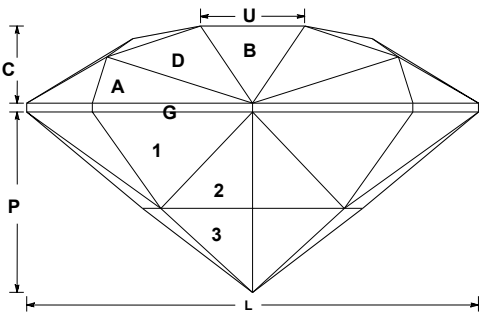
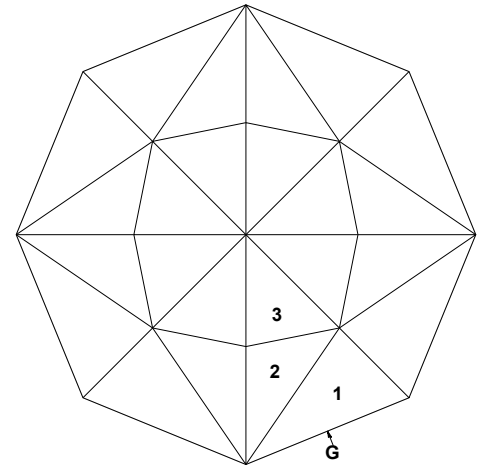
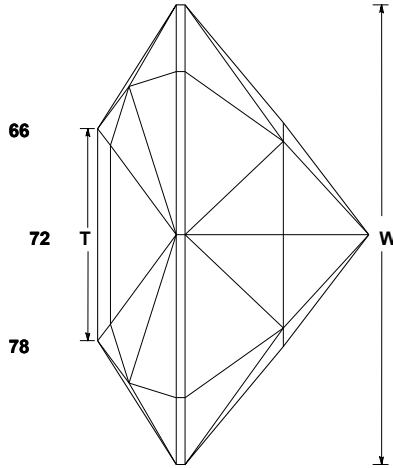
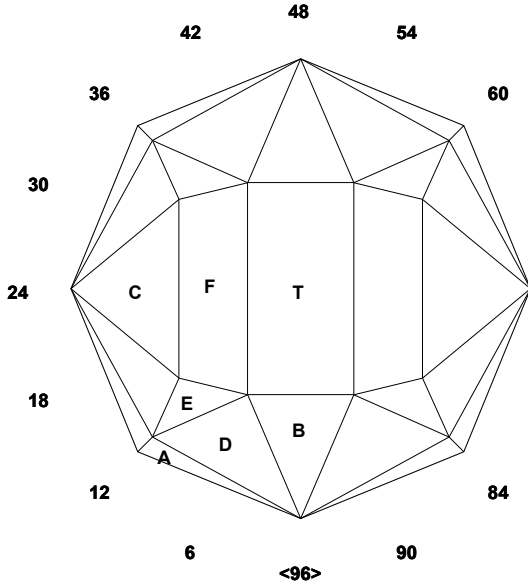
2023 GEMKHANA

Section: N-10.3 Superimposition R

Material: Any Coloured MM Corundum

Facets: 51 + 8 girdles = 59 (Crown=27 Pavilion=24)

Meets: 37 (Crown =20 Pavilion=17)



SUPERIMPOSITION R

by: Merle A Reinikka

Angles for R.I. = 1.760

51 + 8 girdles = 59 facets

8-fold radial symmetry

96 index

$L/W = 1.000$ $T/W = 0.459$ $U/W = 0.231$

$P/W = 0.398$ $C/W = 0.170$

$Vol. /W^3 = 0.199$

PAVILION

1	47.00°	06-18-30-42-54-66-78-90	Cut to TCP
G	90.00°	06-18-30-42-54-66-78-90	Cut to size
2	40.00°	03-21-27-45-51-69-75-93	Meet 1-G-G-1
3	38.00°	03-21-27-45-51-69-75-93	Meet 2-1-1-2, PCP

CROWN

A	68.00°	06-18-30-42-54-66-78-90	Set girdle thickness
B	32.21°	96-48	Meet A-G-G-A
C	31.50°	24-72	Meet A-G-G-A
D	33.00°	01-23-25-47-49-71-73-95	Meet B-A-G-G-A
E	18.00°	12-36-60-84	Meet D-A-A-D
F	10.00°	24-72	Meet E-D-C
T	0.00°	Table	Meet B-D-E-F

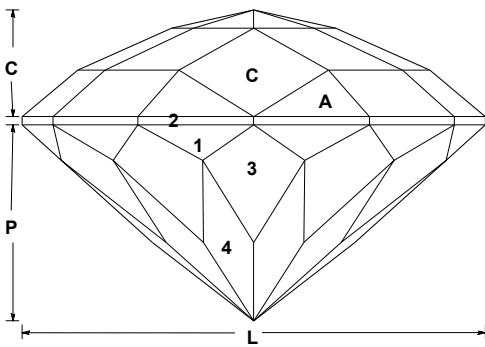
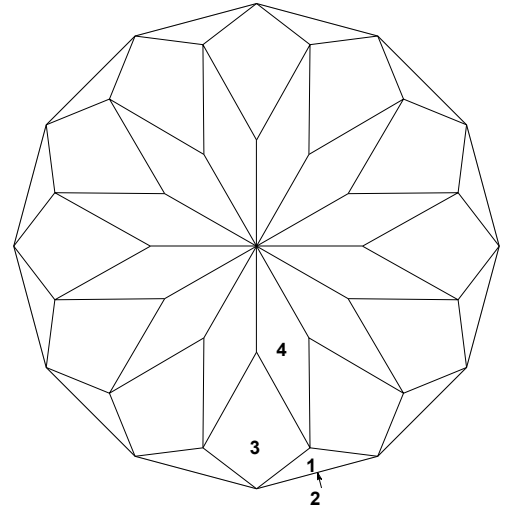
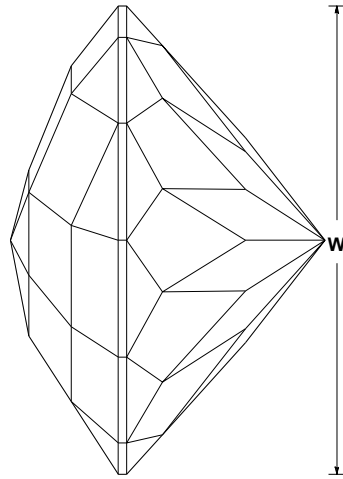
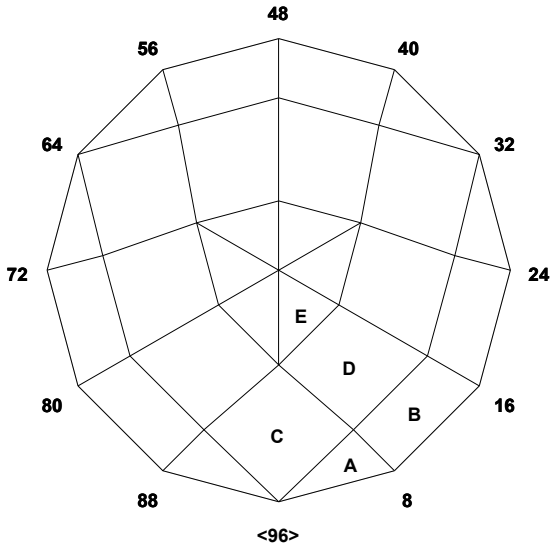
2023 GEMKHANA

Section: O-11.1 12 Main Shield Brilliant No 8

Material: Any Coloured MM Corundum

Facets: 63 + 12 girdles =75 (Crown=27 Pavilion=36)

Meets: 53 (Crown =28 Pavilion=25)



12 Main Shield Brilliant No 8

By Evan A Williams

Angles for R.I. = 1.760

63 + 12 girdles = 75 facets

3-fold, mirror-image symmetry

96 index

L/W = 1.000

P/W = 0.424 C/W = 0.230

Vol. /W³ = 0.209

PAVILION

1	55.00°	04-12-20-28-36-44-52-60-68-76-84-92	Cut TCP
2	90.00°	04-12-20-28-36-44-52-60-68-76-84-92	Set outline size
3	42.00°	96-08-16-24-32-40-48-56-64-72-80-88	Cut to meet at 1, 2
4	39.00°	04-12-20-28-36-44-52-60-68-76-84-92	Cut to meet at 1, 3 & form Pavilion PCP

CROWN

A	43.00°	04-28-36-60-68-92	Set girdle width
B	39.00°	12-20-44-52-76-84	Level girdle width
C	33.00°	96-32-64	Cut to meet at 2, A
D	23.00°	12-20-44-52-76-84	Cut to meet at A, B, C
E	15.00°	12-20-44-52-76-84	Cut to meet at C, D & form Crown PCP

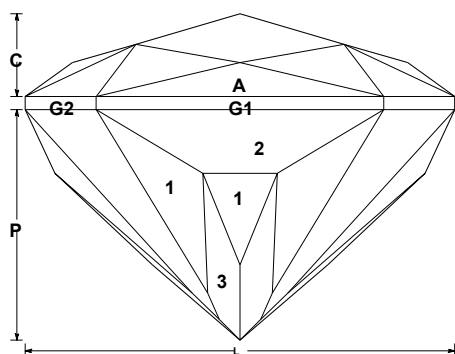
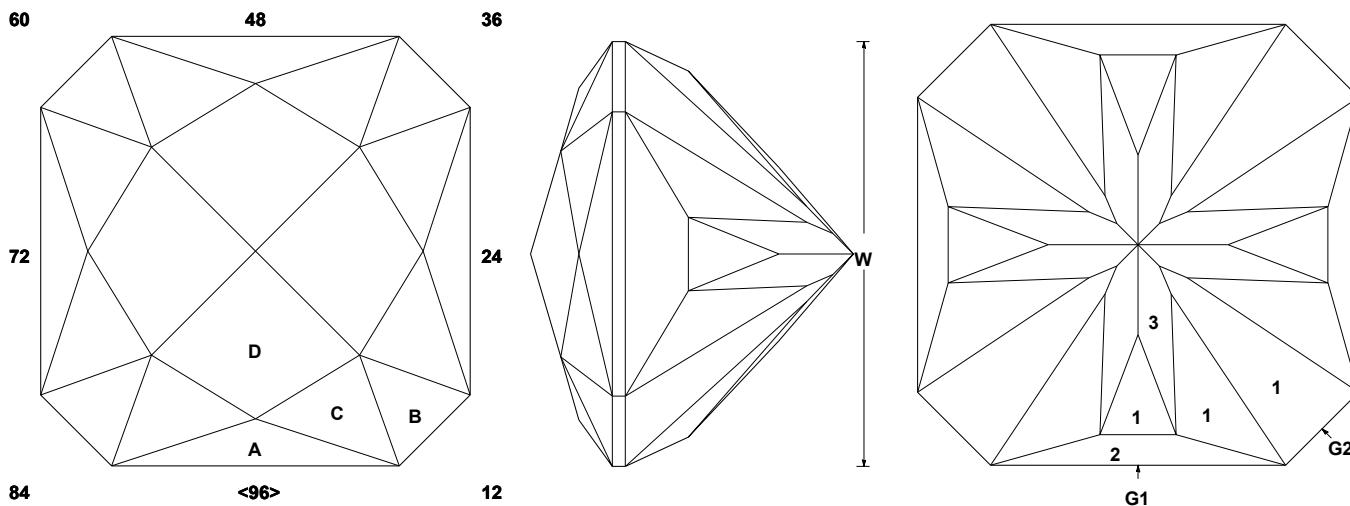
2023 GEMKHANA

Section: I-11.2 Easy Barion Scissor Crown Apex

Material: Any Coloured Cubic Zirconia

Facets: 48 + 8 girdles = 56 (Crown=20 Pavilion=28)

Meets: 34 (Crown =17 Pavilion=17)



EASY BARION SCISSOR CROWN APEX

Robert H. Long

Angles for R.I. = 2.160

48 + 8 girdles = 56 facets

4-fold, mirror-image symmetry

96 index

L/W = 1.000

P/W = 0.537 C/W = 0.192

Vol. /W³ = 0.300

PAVILION

1 43.00° 96-06-12-18-24-30-36-42-48-54-60-66-72-78-84-90

G1 90.00° 96-24-48-72

G2 90.00° 12-36-60-84

2 65.00° 96-24-48-72

3 41.50° 03-21-27-45-51-69-75-93

CROWN

A 35.00° 96-24-48-72

B 26.00° 12-36-60-84

C 24.00° 03-21-27-45-51-69-75-93

D 16.37° 96-24-48-72

Cut to TCP

Set size

Meet 1-1-G1

Level girdle

Meet 1-2-1

Set girdle thickness

Level girdle

Meet A-B at girdle

Meet C-B-C and C-A-C

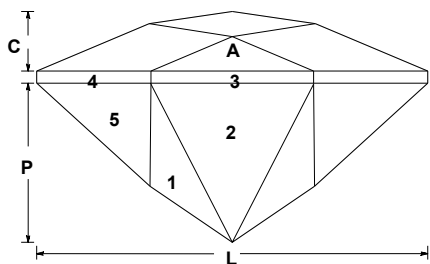
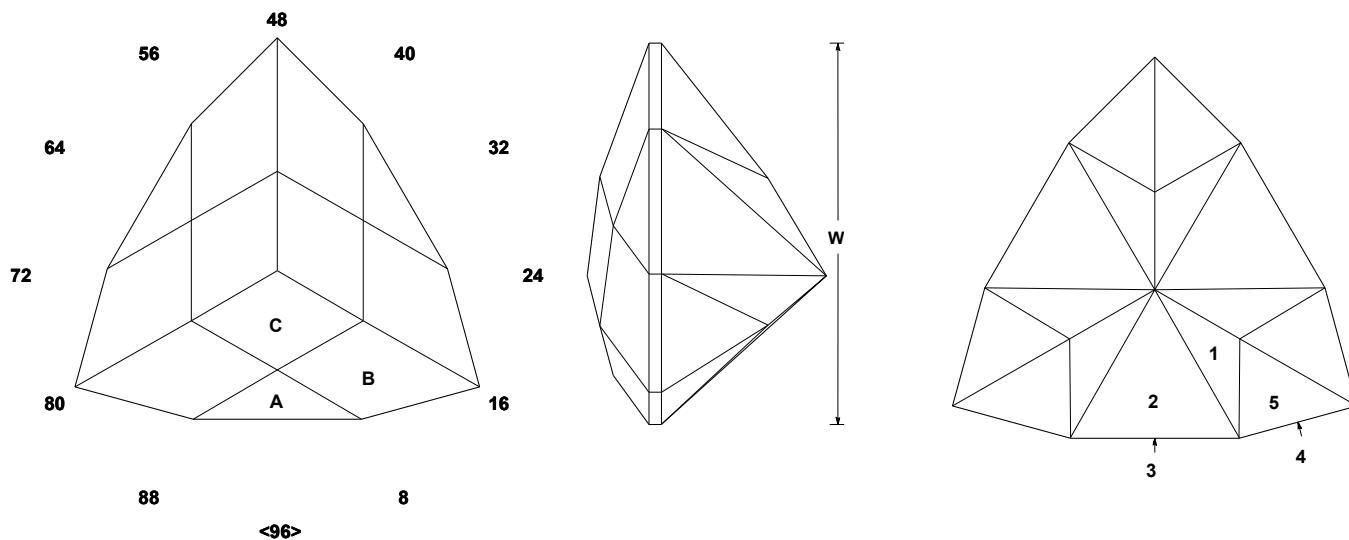
2023 GEMKHANA

Section: N-11.3 Mini Cube Illusion Triangle

Material: Any Coloured Cubic Zirconia

Facets: 27 + 9 girdles = 36 (Crown=12 Pavilion=15)

Meets: 28 (Crown =15 Pavilion=13)



Mini Cube Illusion Triangle

by Robert W. Strickland

Angles for R.I. = 2.160

27 + 9 girdles = 36 facets

3-fold, mirror-image symmetry

96 index

$L/W = 1.059$

$P/W = 0.431$ $C/W = 0.163$

$Vol. /W^3 = 0.171$

PAVILION

1	47.00°	01-31-33-63-65-95	Form PCP
2	47.98°	96-32-64	Meet PCP
3	90.00°	96-32-64	Set size, meet 1-2
4	90.00°	04-28-36-60-68-92	Level, meet 1-2-3
5	47.98°	04-28-36-60-68-92	Level girdle, meet 1-2-3-4

CROWN

A	36.21°	96-32-64	Set girdle thickness
B	27.37°	04-28-36-60-68-92	Meet A-3-4
C	15.00°	96-32-64	Meet A-B form Apex