

**53<sup>rd</sup> GEMBOREE**

**2017**

**LITHGOW**



**Competition Conditions**

**And**

**Schedule**

## GEMBOREE 2017 COMPETITION ENTRY FORM

**Mail to: The Competition Committee,  
PO Box 60, Ourimbah NSW 2258  
Phone: (02) 4341 5277 or (02) 4393 6168**

Entry Form to arrive by **Saturday 11<sup>th</sup> February 2017** together with entry fees and stamped self-addressed envelope for return of official receipt.

Name:.....

Address:.....

State:..... Postcode:.....Phone:..... Mobile:.....

e-mail:..... Full name of Club:.....

Date of birth (Juniors only):.....Under 16 at 11<sup>th</sup> February 2017

No. of Entries: Flat fee of \$5.00: \$5.00

Will collect Entries: or Return (Registered) Postage: \$.....

Signed:.....Total Enclosed: \$.....

Please note all cheques to be made payable to: **Gem and Lapidary Council of NSW inc.**

Please note: It is recommended that all mail entries be sent Registered or Express Post.  
Entries in these sections must be the hands of the Competition Committee by **Saturday 11<sup>th</sup> February 2017**. Please show number of entries (1 or 2) below in nominated section.

O 1A.1	I 1A.2	N 1A.3	J 1A.4	O 1A.5	I 1A.6	N.1A.7	O 1B.1	I 1B.2	N 1B.3	J 1B.4
O 1B.5	N 1B.6	O 2A.1	I 2A.2	N 2A.3	O 2B.1	N 2B.2	O 3.1	I 3.2	N 3.3	J 3.4
O 3.5	N 3.6	J 3.7	O 4A.1	N 4A.2	O 4C.1	O 5C.1	N 5C.2	O 5D.1	N 5D.2	O 5E.1
N 5E.2	O 6.1	N 6.2	O 7A.1	N 7A.2	O 8A.1	I 8A.2	N 8A.3	O 8B.1	N 8B.2	O 9A.1
I 9B.1	N 9B.2	O 10.1	I 10.2	N 10.3	J 10.4	O 11.1	I 11.2	N 11.3	O 12A.1	N 12A.2
O 13.1	N 13.2	O 14.1	O 18A.1	I 18A.2	N 18A.3	O 18B.1	I 18B.2	N 18B.3	O 18B.4	O 18C.1
N 18C.2	O 18D.1	N 18D.2	O 18E.1	N 18E.2	J 18E.3	O 19A.1	N 19A.2	O 19B.1	O 19E.1	O 19F.1
O 19G.1	O 20A.1	N 20A.2	O 20E.1	O 21A.1	N 21A.2	O 21D.1	O 24A.1	N 24A.2	O 24C.1	N 24C.2
O 24D.1	O 25.1	I 25.2	N 25.3	J 25.4	O 26A.1	N 26A.2	O 26B.1	N 26B.2	O 27A.1	O 28B.1

**Entries in the sections below to be set ready for judging by 5pm Thursday 13<sup>th</sup> April 2017.**

Show number of entries (1 or 2) below in nominated section.

O 5A.1	O 5A.2	N 5A.3	J 5A.4	O 5B.1	N 5B.2	O 16.1	N 16.2	J 16.3	O 17.1	N 17.2
J 17.3	O 26C.1	N 26C.2	O 29B.1	O 32A.1	N 32A.2	O 32A.3	N 32A.4	J 32A.5	O 32B.1	N 32B.2
J 32B.3	O 34A.1	N 34A.2	J 34A.3	O 34A.4	N 34A.5	O 34B.1	N 34B.2	J 34B.3	O 34B.4	N 34B.5
J 34B.6	O 38B.1	O 40A.1								

### Competition Showcase Dimensions

O 29B.1		Width .....	Depth.....	Height.....	O 38B.1		Width.....	Depth.....	Height.....
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# GEMBOREE 2017 COMPETITION SCHEDULE AND CONDITIONS

## THIS IS A LEVEL 4 COMPETITION

### GENERAL CONDITIONS

- 1 This competition will be judged in accordance with the rules and definitions of the Competitor and 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.

Copies of the Manual can be obtained from the secretary of your State organization or can be purchased from the Competition Committee at a cost of \$6.00 plus \$3.50 postage - total \$9.50.

- 2 ENTRY FORMS, POSTAL ENTRIES and any enquiries relating to this competition should be sent to:

**The Competition Committee**  
**PO Box 60**  
**OURIMBAH NSW 2258**

Phone: Annette on 02 4341 5277 or  
Barbara on 02 4393 6168 & Mobile 0417 676 435

- 3 ENTRY FORMS for all sections must be received by the Competition Committee **by Saturday 11<sup>th</sup> February 2017** together with a flat entry fee of \$5 per competitor. Entries from overseas competitors will be free. A stamped self-addressed envelope must be sent with the entry form.
- 4 ENTRIES in sections 1 to 4, 5C, 5D, 5E, 6 to 14, 18 to 25, 26A, 26B, 27A and 28B will be judged before the GEMBOREE. They must be mailed to reach the Competition Committee **by Saturday 11<sup>th</sup> February 2017**. It is recommended that all mail entries be sent Registered or Express Post **Late entries will not be eligible for competition and will be returned.**
- 5 ENTRIES in sections 5A, 5B, 16, 17, 26C, 29 to 38 and 40, will be judged at the GEMBOREE. Entries must be delivered to the Competition Committee and set up between 2 pm and 5 pm on Thursday 13<sup>th</sup> April 2017.
- 6 The preferred method for the return of entries is to be stated on the entry form and, if necessary, sufficient money to cover this return must be included with the entry fee. Registered post is recommended.
- 7 Cheques and postal orders are to be made payable to Gem and Lapidary Council NSW Inc.
- 8 Competitors are advised to check their eligibility to enter a Novice or Intermediate section. If in doubt, their status can be verified by checking on the AFLACA Competition Winners List on the AFLACA website <http://aflaca.org.au/judging-rules/competitors/>
- 9 A maximum of two entries per person per section is allowed except for Showcase sections where only one entry per person is allowed.

The Competition Committee may transfer an entry into the correct Section if they are of the opinion that it has obviously been entered in the wrong section.

- 10 Overseas entrants are advised to include a copy of their entry form and clearly label their package 'Lapidary Competition Entries - to be returned'.  
It is suggested that a high monetary value should **not** be stated in any paperwork to avoid possible problems with Customs.
- 11 While every care will be taken, the GEMBOREE Committee will not accept any responsibility for any loss or damage of competitive or non-competitive entries / exhibits that may occur in transit or whilst in the possession of the GEMBOREE Committee.
- 12 Competitors are responsible for insurance of their entries while in transit and while in the possession of the GEMBOREE Committee.
- 13 Judging sheets will be available for collection from the Competition Office between 3.00 pm and 5.00 pm on Friday 14<sup>th</sup> and Saturday 15<sup>th</sup> April 2017. Judging sheets not collected then will be returned with the actual entries.
- 14 Entries must be collected between 3.30 pm and 5.00 pm on Monday 17<sup>th</sup> April 2017. Entries not collected at this time will be returned to the competitor in the manner specified on the entry form.

## **SPECIAL CONDITIONS**

- a. **SIZES and TOLERANCES:** Where an entry does not conform to the size conditions in this schedule or the Manual, it will be ruled ineligible. Where a minimum size hole is specified the measuring gauge must be at least 10mm thick.
- b. **Novelty Gemcraft, Section 17** – These sizes are not as specified in the manual, please refer to the schedule. Minimum size 50mm on the longest dimension excluding base and maximum size is 300mm including base.
- c. **Section O 40A-1 Miniature Showcase**

The Competition Committee will provide an A4 size area per competitor (in portrait mode). A space will be supplied within a showcase for the competitor to set up their display. The competitor will supply their own base but it must be A4 size. The base only is required, sides and top not allowed. The maximum height of display is 75mm including the base. A minimum of one item in each of at least 3 of the 14 categories is required. All other general showcase conditions still apply.  
To be judged as Showcase General – Unlit. (Refer to Section 29A)

## **COMPETITION SCHEDULE**

O = Open    I = Intermediate    N = Novice    J = Junior  
CS = Craftsmanship    AA = Aesthetic Appeal    PT = Perpetual Trophy  
AT = Annual Trophy    SC = Special Conditions

## SCHEDULE

### GROUPS 1 AND 2 CABOCHON CUTS

Minimum size - must not be able to be passed through a 15mm diameter hole. All cabochons MUST have a definite "Oval Shape". Unless otherwise specified in the schedule any Natural Lapidary Material can be used.

<b>Sect. No.</b>	<b>Description</b>		<b>Trophy</b>	<b>SC</b>
O 1A.1	Standard Cabochon	CS	PT-01, AT-21	a
I 1A.2	Standard Cabochon	CS		a
N 1A.3	Standard Cabochon	CS	PT-03	a
J 1A.4	Standard Cabochon	CS	AT-01, AT-15	a
O 1A.5	Standard Cabochon – Ribbonstone	AA	AT-07	a
I 1A.6	Standard Cabochon – Ribbonstone	AA		a
N 1A.7	Standard Cabochon – Ribbonstone	AA		a
O 1B.1	Fancy Cabochon - Agate	CS	PT-01	a
I 1B.2	Fancy Cabochon - Agate	CS	PT-02	a
N 1B.3	Fancy Cabochon - Agate	CS	PT-03	a
J 1B.4	Fancy Cabochon	CS	AT-01	a
O 1B.5	Fancy Cabochon – Obsidian (Rainbow, Snowflake or Mahogany ONLY)	AA	AT-27	a
N 1B.6	Fancy Cabochon – Obsidian (Rainbow, Snowflake or Mahogany ONLY)	AA		a
O 2A.1	Double Standard Cabochon	CS	AT-18	a
I 2A.2	Double Standard Cabochon	CS		a
N 2A.3	Double Standard Cabochon	CS	PT-03	a
O 2B.1	Double Fancy Cabochon	CS	PT-01	a
N 2B.2	Double Fancy Cabochon	CS		a

### GROUP 3 FREE FORM SECTIONS

**Sections 3.1 to 3.4** Minimum size - must not be able to be passed through 15mm diameter hole.

<b>Sect. No.</b>	<b>Description</b>		<b>Trophy</b>	<b>SC</b>
O 3.1	Free Form	CS	AT-27	a
I 3.2	Free Form	CS	PT-02	a
N 3.3	Free Form	CS		a
J 3.4	Free Form	CS	AT-01	a

**Sections 3.5 to 3.7** Minimum size - must not be able to be passed through 10mm diameter hole.

<b>Sect. No.</b>	<b>Description</b>		<b>Trophy</b>	<b>SC</b>
O 3.5	Free Form – Opal Solid	CS	AT-14	a
N 3.6	Free Form – Opal Solid	CS		a
J 3.7	Free Form – Opal Solid	CS	AT-01	a

## GROUP 4 OPAL SECTIONS

Minimum size - must not be able to be passed through a 10mm diameter hole.

<b>Sect. No.</b>	<b>Description</b>		<b>Trophy</b>	<b>SC</b>
O 4A.1	Opal Doublet – Flat top	CS	PT-01	a
N 4A.2	Opal Doublet – Flat top	CS		a
O 4C.1	Opal Triplet, Oval	CS		a

## GROUP 5 CARVING / CAMEO / INTAGLIO SECTIONS

<b>Sect. No.</b>	<b>Description</b>		<b>Trophy</b>	<b>SC</b>
O 5A.1	Carving – Fully 3-Dimensional Hardness under 5		AT-27	
O 5A.2	Carving – Fully 3-Dimensional Hardness 5 and above		AT-25	
N 5A.3	Carving – Fully 3-Dimensional Hardness under 5			
J 5A.4	Carving – Fully 3-Dimensional Any Hardness (MUST be of a “Known Form”)		AT-03	
O 5B.1	Carving - In Relief Any Hardness			
N 5B.2	Carving - In Relief Any Hardness			
O 5C.1	Cameo			
N 5C.2	Cameo			
O 5D.1	Intaglio			
N 5D.2	Intaglio			
O 5E.1	Carving not otherwise Specified in Group 5A to 5D			
N 5E.2	Carving not otherwise Specified in Group 5A to 5D			

## GROUP 6 SCRIMSHAW

<b>Sect. No.</b>	<b>Description</b>
O 6.1	Scrimshaw
N 6.2	Scrimshaw

## GROUP 7 SPHERE

Minimum size 30mm on the shortest dimension

<b>Sect. No.</b>	<b>Description</b>			<b>SC</b>
O 7A.1	Sphere	CS		
N 7A.2	Sphere	CS		

## GROUPS 8, 9, 10 AND 11 FACET CUTS

Sect. No.	Description	Trophy
O 8A.1	Standard Brilliant – Continuous Girdle Natural Australian Coloured Quartz	PT-01, AT-23
I 8A.2	Standard Brilliant – Continuous Girdle Topaz	PT-02
N 8A.3	Standard Brilliant – Continuous Girdle Natural Coloured Quartz	
O 8B.1	Standard Brilliant – Faceted Girdle Man Made Coloured Corundum	AT-16
N 8B.2	Standard Brilliant – Faceted Girdle Man Made Coloured Corundum	AT-22
O 9A.1	Standard Oblong Step Cut with Cut Corners Australian Labradorite	AT-23
I 9B.1	Standard Square Step Cut with Cut Corners Man Made Spinel	
N 9B.2	Standard Square Step Cut with Cut Corners Man Made Spinel	PT-03
O 10.1	Improved Simple Trillion, Amethyst	AT-16, AT-27
I 10.2	Mount Ida Barion for Quartz, Citrine	
N 10.3	Sakura 96, Natural Coloured Quartz	AT-22
J 10.4	Trilled, Any Natural Quartz	
O 11.1	Hard Roku, Natural Blue Topaz	AT-10, AT-16, AT-27
I 11.2	Shouga, Coloured Cubic Zirconia	
N 11.3	Apex Octagon, Coloured Cubic Zirconia	AT-22

## GROUP 12 TUMBLED STONES

Maximum size 40mm, minimum size - must not be able to be passed through a 15mm diameter circular hole.

Sect. No.	Description	Trophy	SC
O 12A.1	Tumbled Stones – Preformed Shape Group of 3 different materials	AT-27	a
N 12A.2	Tumbled Stones – Preformed Shape Group of 3 different materials		a

## GROUPS 13 AND 14 POLISHED FACES

Sect. No.	Description	Trophy
O 13.1	Polished Face – Flat Surface	CS AT-27
N 13.2	Polished Face – Flat Surface	CS
O 14.1	Polished Face – Curved Surface	AA



## GROUP 16 GEM TREES

Base **NOT** to exceed one third of overall height. (Paragraph D16.2 of the manual still applies)

Sect. No.	Description	SC
O 16.1	Gem Tree	a
N 16.2	Gem Tree	a
J 16.3	Gem Tree	a

## GROUP 17 NOVELTY GEMCRAFT

Minimum size 50mm on the longest dimension excluding base and maximum size is 300mm including base.

Sect. No.	Description	Trophy	SC
O 17.1	Novelty Gemcraft	AT-27	b
N 17.2	Novelty Gemcraft		b
J 17.3	Novelty Gemcraft		b

## GROUP 18 HAND FABRICATED AND WIRE WRAPPED JEWELLERY

Sect. No.	Description	Trophy
O 18A.1	Hand Fabricated Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	AT-02
I 18A.2	Hand Fabricated Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	
N 18A.3	Hand Fabricated Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	
O 18B.1	Hand Fabricated Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	AT-11, AT-27
I 18B.2	Hand Fabricated Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	
N 18B.3	Hand Fabricated Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	
O 18B.4	Hand Fabricated Jewellery <b>with</b> SOLID OPAL Item/s cut and set by entrant	AT-24
O 18C.1	Hand Fabricated Jewellery <b>with</b> Natural Fossil or Mineral Specimen/s set by entrant	AT-06
N 18C.2	Hand Fabricated Jewellery <b>with</b> Natural Fossil or Mineral Specimen/s set by entrant	
O 18D.1	Hand Fabricated Jewellery <b>with</b> Commercial Lapidary Item/s set by entrant	
N 18D.2	Hand Fabricated Jewellery <b>with</b> Commercial Lapidary Item/s set by entrant	
O 18E.1	Wire Wrapped Jewellery <b>with</b> Lapidary, Fossil or Mineral Item/s prepared and set by entrant	
N 18E.2	Wire Wrapped Jewellery <b>with</b> Lapidary, Fossil or Mineral Item/s prepared and set by entrant	AT-26
J 18E.3	Wire Wrapped Jewellery <b>with</b> Lapidary, Fossil or Mineral Item/s prepared and set by entrant	

## GROUP 19 CAST AND METAL CLAY JEWELLERY USING PATTERNS, MOULDS AND DIES MADE BY ENTRANT

Sect. No.	Description	
O 19A.1	Cast Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	AT-28
N 19A.2	Cast Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	AT-28
O 19B.1	Cast Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	AT-28
O 19E.1	<b>Metal Clay</b> Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	
O 19F.1	<b>Metal Clay</b> Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	
O 19G.1	<b>Metal Clay</b> Jewellery <b>with</b> Commercial Lapidary Item/s set by entrant	

## GROUP 20 CAST AND METAL CLAY JEWELLERY USING NATURAL OBJECTS AS PATTERNS

Sect. No.	Description	
O 20A.1	Cast Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	AT-28
N 20A.2	Cast Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	AT-28
O 20E.1	<b>Metal Clay</b> Jewellery not intended to include Lapidary, Fossil or Mineral Item/s	

## GROUP 21 CAST JEWELLERY USING COMMERCIAL WAX MODELS OR PATTERNS

Sect. No.	Description	
O 21A.1	Cast Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	AT-28
N 21A.2	Cast Jewellery <b>not</b> intended to include Lapidary, Fossil or Mineral Item/s	AT-28
O 21D.1	Cast Jewellery <b>with</b> Commercial Lapidary Item/s set by entrant	AT-28

## GROUP 24 ENAMELLED JEWELLERY IN HAND FABRICATED OR CAST SETTING

Sect. No.	Description	
O 24A.1	Enamelled Jewellery in Hand Fabricated Setting	
N 24A.2	Enamelled Jewellery in Hand Fabricated Setting	
O 24C.1	Enamelled Jewellery in Cast Setting using <b>Natural Objects as Patterns</b>	
N 24C.2	Enamelled Jewellery in Cast Setting Using <b>Natural Objects as Patterns</b>	
O 24D.1	Enamelled Jewellery in Cast Setting using <b>Commercial Wax Models or Patterns</b>	

## GROUP 25 COMMERCIAL MOUNT JEWELLERY

<b>Sect. No.</b>	<b>Description</b>	<b>Trophy</b>
O 25.1	Commercial Mount Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	
I 25.2	Commercial Mount Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	PT-02
N 25.3	Commercial Mount Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	PT-03
J 25.4	Commercial Mount Jewellery <b>with</b> Lapidary Item/s cut and set by entrant	AT-01

## GROUP 26 ENAMELLING SECTIONS

<b>Sect. No.</b>	<b>Description</b>	<b>Trophy</b>
O 26A.1	Enamelled Jewellery in Commercial Mount	
N 26A.2	Enamelled Jewellery in Commercial Mount	
O 26B.1	Enamelled Jewellery without Mount	
N 26B.2	Enamelled Jewellery without Mount	
O 26C.1	Enamelling Non Jewellery	AT-05
N 26C.2	Enamelling Non Jewellery	

## GROUP 27 METALCRAFT

<b>Sect. No.</b>	<b>Description</b>
O 27A.1	General Metalcraft not intended to include Lapidary, Fossil or Mineral items

## GROUP 28 METAL SHEET WORK

<b>Sect. No.</b>	<b>Description</b>
O 28B.1	Metal Sheet Work – Etched Pattern

## GROUP 29 SHOWCASES

<b>Sect. No.</b>	<b>Description</b>	<b>Trophy</b>
O 29B.1	Showcase General – LIT	AT-17

## GROUP 32 FOSSILS

<b>Sect. No.</b>	<b>Description</b>	<b>SC</b>
O 32A.1	Fossil Non Display – Any type Australian	
N 32A.2	Fossil Non Display – Any type Australian	
O 32A.3	Fossil Non Display – Any type Overseas	
N 32A.4	Fossil Non Display – Any type Overseas	
J 32A.5	Fossil Non Display – Any type Any Location	

Maximum plan size of whole group NOT to exceed 200 mm x 200 mm

O 32B.1	Fossil Non Display – Group of Three Mixed Australian	a
N 32B.2	Fossil Non Display – Group of Three Mixed Overseas	a
J 32B.3	Fossil Non Display – Group of Three Any Location	a

## GROUP 34 MINERALS NON DISPLAY

Maximum size allowable for Cabinet specimens 150 mm x 150 mm x 150 mm

<b>Sect. No.</b>	<b>Description</b>	<b>Trophy</b>	<b>SC</b>
O 34A.1	Mineral Non Display, Single Specimen Cabinet Size, Australian Specimen	AT-13	a
N 34A.2	Mineral Non Display, Single Specimen Cabinet Size, Australian Specimen	AT-12	a
J 34A.3	Mineral Non Display, Single Specimen Cabinet Size, Australian Specimen		a
O 34A.4	Mineral Non Display, Single Specimen Miniature Size, Overseas Specimen	AT-13	a
N 34A.5	Mineral Non Display, Single Specimen Miniature Size, Overseas Specimen	AT-12	a
O 34B.1	Mineral Non Display, Group of Three Miniature, Three different crystal systems	AT-13, AT-27	a
N 34B.2	Mineral Non Display, Group of Three Miniature, Three different crystal systems	AT-12	a
J 34B.3	Mineral Non Display, Group of Two Miniature, Two different crystal systems		a
O 34B.4	Mineral Non Display, Group of Three Crystal Clusters, Thumbnail, Australian Location/s	AT-09, AT-13	a
N 34B.5	Mineral Non Display, Group of Three Thumbnail, Any Location	AT-12	a
J 34B.6	Mineral Non Display, Group of Three Thumbnail, Any Location		a

## GROUP 37 MINERAL SHOWCASE

<b>Sect. No.</b>	<b>Description</b>	<b>Trophy</b>
O 38B.1	Mineral Showcase – Display – SOLO - LIT Copper Minerals	AT-20

## GROUP 40 MINIATURE SHOWCASE

Sect. No.	Description	SC
O 40A.1	Showcase General – UNLIT – Miniature Display	c

### **PERPETUAL TROPHIES**

#### **PT-04 Ray Powell**

##### CHAMPION CLUB

Donor Gem & Lapidary Council of NSW Inc.  
Club with highest aggregate score of members entries based on the following:  
20 points for each 1st placed entry (including 'Special Awards' given in place of 1st)  
15 points for each 2nd highest scoring entry  
10 points for each 3rd highest scoring entry  
5 points for each 4th highest scoring entry

### **ANNUAL TROPHIES**

#### **PT-01 Tom Jenkins**

##### OPEN CHAMPION LAPIDARY

Donor Victorian Gem Clubs Association Inc.  
Highest aggregate score of Entrant's best entry in each of the following FIVE (5) Open sections:

- O 1A.1 Standard Cabochon
- O 1B.1 Fancy Cabochon
- O 2B.1 Double Fancy Cabochon
- O 4A.1 Opal Doublet – Flat Top
- O 8A.1 Standard Brilliant - Continuous Girdle, Natural Australian Coloured Quartz

#### **PT-02 Harold Evans**

##### INTERMEDIATE CHAMPION LAPIDARY

Donor Victorian Gem Clubs Association Inc.  
Highest aggregate score of entrant's best entry in any 3 of the following 4 Intermediate sections:

- I 1B.2 Fancy Cabochon
- I 3.2 Freeform
- I 8A.2 Standard Brilliant - Continuous Girdle, Topaz
- I 25.2 Commercial Mount Jewellery

#### **PT-03 Norm Patison**

##### NOVICE CHAMPION LAPIDARY

Donor P. Murphy and T. Annear via AFLACA trophy fund.

Highest aggregate score of entrant's best entry in any 4 of the following 5 Novice sections:

- N 1A.3 Standard Cabochon
- N 1B.3 Fancy Cabochon
- N 2A.3 Double Standard Cabochon
- N 9B.2 Standard Square Step Cut with Cut Corners, Man made Coloured Spinel
- N 25.3 Commercial Mount Jewellery

### **ANNUAL TROPHIES**

#### **AT-01 Dorothy Caladine**

##### JUNIOR CHAMPION LAPIDARY

Donor Mrs. R. Sabella

Highest aggregate score of entrant's best entry in any 3 of the following 5 Junior sections.

- J 1A.4 Standard Cabochon
- J 1B.4 Fancy Cabochon
- J 3.4 Free Form – Any Material
- J 3.7 Free Form - Opal Solid
- J 25.4 Commercial Mount Jewellery

#### **AT-02 Kadesa Gem & Minerals**

Donor Kadesa Gem & Minerals

Winner of Section O 18A.1 Hand Fabricated Jewellery not intended to Include Lapidary, Fossil or Mineral Items

#### **AT-03 Dorothy Caladine**

Donor Mrs. R. Sabella

Entrant with highest individual score in Junior Carving section J 5A.4

**AT-04 The Crystal Habit Trophy**

Donor Peter Beckwith

*Best Mineral of Show*

Donor selects winner from ALL minerals on display whether competitive or non-competitive.

Dealers, companies or institutions are not eligible.

**AT-05 Val Annear**

Donor Victorian Gems Clubs Association Inc.

Winner of Section O 26C.1 Enamelling Non Jewellery

**AT-06 John S Ryding**

Donor Mrs J. Ryding via AFLACA Trophy Fund

Winner of Section O 18C.1 Hand Fabricated Jewellery with Natural Mineral or Fossil specimen(s) set by entrant.

**AT-07 Harry Miller**

Donor Mrs. D Miller via AFLACA Trophy Fund

Winner of Section O 1A.5 – Standard Cabochon Aesthetic Appeal

**AT-08 Earth Stones**

Donor Earth Stones – Mr. J. Mommers

*Best Fossil of Show*

Donor selects winner from ALL fossils on display whether competitive or non-competitive.

Dealers, companies or institutions are not eligible.

**AT-09 George Lude**

Donor Queensland Lapidary and Allied Crafts Clubs Association Inc.

Winner Section O 34B.4 Minerals Non Display Group of Three Crystal Clusters, Thumbnail, Australian Location.

**AT-10 Alex Amess**

Donor Victoria Gem Clubs Association Inc.

Winner of Facet Section O 11.1 Fancy Cut Hard Roku, Natural Blue Topaz

**AT-11 A & E Metal Merchants**

Donor A & E metal Merchants

Winner of Section O 18B.1 Hand fabricated Jewellery with Lapidary item/s cut and set by entrant

**AT-12 Jim Johnson**

Donor GMCASA via AFLACA Trophy fund

*Champion Novice Mineral Competitor*

Highest aggregate score of Entrant's best entry in any 3 Novice Mineral sections – including Showcase.

**AT-13 Broken Hill Centenary**

Donor AFLACA

*Champion Open Mineral Competitor*

Highest aggregate score of Entrant's best entry in a minimum of 3 Open Mineral sections

**AT-14 Ted Koller**

Donor Victoria Gem Clubs Association Inc.

Winner of Section O 3.5 Free Form OPAL SOLID Craftsmanship

**AT-15 Dazlyn Gems**

Donor Dazlyn Gems

Winner of Section J 1A.4 Standard Cabochon Craftsmanship

**AT-16 Peter Collins**

Donor Australian Facetors' Guild Ltd

*Champion Open Facetor*

Highest aggregate score of entrant's best entry in the following 3 Open Faceting Sections,

O 8B.1, O 10.1 & O 11.1. If tied, Entrant with highest point scoring entry will be the winner.

**AT-17 Arthur Roffey**

Donor Arthur Roffey  
Winner of Section O 29B.1 Showcase  
General Display –Lit

**AT-18 Boris Novic**

Donor Gem & Lapidary Council of NSW Inc.  
Winner of Section O 2A.1 Double Standard  
Cabochon Craftsmanship

**AT-19 Patrick C Murphy**

Donor Arthur Roffey  
Champion Junior Mineral Competitor  
Highest aggregate score of a Junior's best  
entry in a minimum of 3 Mineral sections  
Irrespective of Division  
Applies to all Mineral Sections O 34A.1 to J  
34B.6.

**AT-20 Cyril Kovac**

Donor Cyril Kovac  
Winner of Section O 38B.1 Mineral  
Showcase – Display SOLO – Lit - Copper

**AT-21 Brian Bown**

Donor Brian Bown  
Winner of Section O 1A.1 Standard  
Cabochon Craftsmanship

**AT-22 Jack Bushby**

Donor Southern Rockhounds  
*Champion Novice Facetor*  
Highest aggregate score of entrant's best  
entry in the following 3 Novice Faceting  
Sections,  
N 8B.2, N 10.3 and N 11.3. If tied, Entrant  
with highest point scoring entry will be the  
winner.

**AT-23 Dick Moppett**

Donor Gem & Lapidary Council of NSW Inc  
Highest aggregate score of entrant's best  
entry in sections O 8A.1 Open Standard  
Brilliant Continuous Girdle in Natural  
Australian Coloured Quartz and O 9A.1  
Standard Oblong Step Cut with Cut corners  
in Australian Labradorite.

**AT-24 Chas Totterdell**

Donor Gem & Lapidary Council of NSW Inc  
Winner of Section O 18B.4 Hand Fabricated  
Jewellery with SOLID OPAL Item/s cut and  
set by entrant

**AT-25 The Lapidary & Gem Club of Victoria**

Donor Victoria Gem Clubs Association Inc.  
Winner of Section O 5A.2 Carving Fully 3-  
Dimensional, Hardness 5 and above

**AT-26 Gold Coast School of Wirecraft**

Donor Paul Howard  
Highest scoring entry in Section N 18E.2

**AT-27 The Tony Annear OAM Memorial Trophy**

Donor AFLACA  
Highest aggregate score of entrant's best  
entry in the following 10 sections:  
O 1B.5 Fancy Cabochon, Obsidian, Aesthetic  
Appeal; O 3.1 Freeform; O 5A.1 Carving,  
Fully 3-Dimensional Hardness under 5 O  
10.1 Improved Simple Trillion, Amethyst O  
11.1 Hard Roku, Natural Blue Topaz; O  
12A.1 Tumbled Stones; Preformed Shape  
Group of 3 different materials; O 13.1  
Polished Face, Flat Surface; O 17.1 Novelty  
Gemcraft;  
O 18B.1 Hand Fabricated Jewellery with  
Lapidary Item/s cut and set by entrant;  
O 34B.1 Mineral Non Display, Group of  
Three, Miniature, Three different crystal  
systems.

**AT-28 Cast Jewellery Trophy**

Donor Queensland Gem Clubs Association  
Inc.  
The highest individual scoring entry in any of  
cast Jewellery sections. 19 A & B, 20 A, 21 A  
& D

## ***SPECIAL TROPHIES***

### **ST-01        GEMBOREE Senior Princess**

Donor Victoria Gem Clubs Association Inc.  
For selected Entrant chosen and crowned by  
GEMBOREE organisers

### **ST-02        GEMBOREE Junior Princess**

Donor Tasmania Lapidary and Mineral  
Association Inc.  
For selected Entrant chosen and crowned by  
GEMBOREE organisers

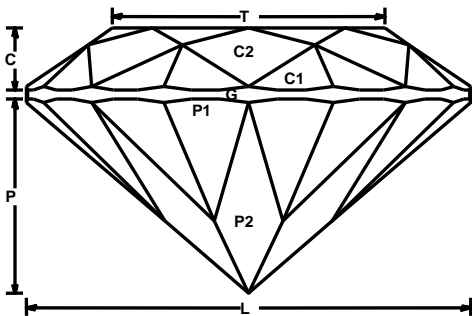
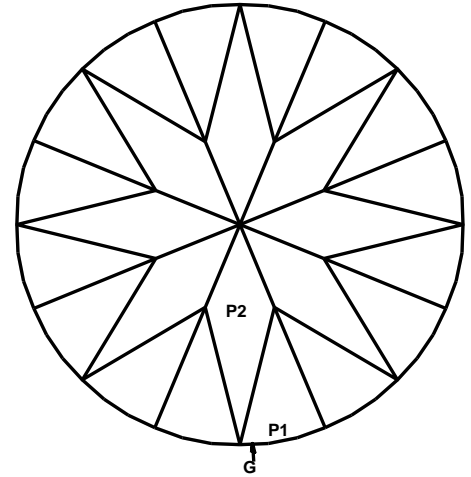
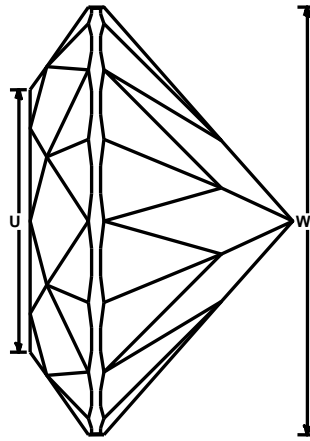
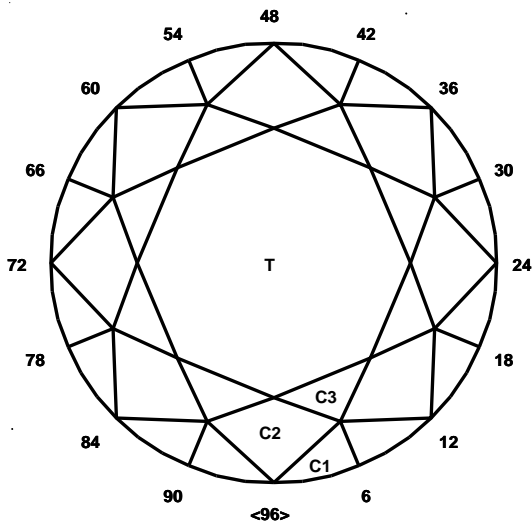
### **ST-03        Best Presented Trade Stand**

Donor Shepparton & District Gem Club  
Awarded to Commercial Dealer whose stand  
is judged 'Best Presented' by someone  
appointed by Donor or GEMBOREE  
Committee.



**SECTION: O.8A.1; N.8A.3 – STANDARD BRILLIANT with CONTINUOUS GIRDLE**  
**MATERIAL – NATURAL AUSTRALIAN COLOURED QUARTZ**

**FACETS - 58: MEETS - 41 (Crown - 24, Pavilion - 17)**



**Standard Round Brilliant with Continuous Girdle**

Angles for R.I. = 1.540  
 57 + 1 rolled girdle  
 8-fold, mirror-image symmetry  
 96 index  
 $L/W = 1.000$   $T/W = 0.516$   $U/W = 0.516$   
 $P/W = 0.476$   $C/W = 0.228$   
 $Vol. /W^3 = 0.260$

**PAVILION**

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

Create TCP

G 90.00°

Cut to size, "rolled girdle"

P2 41.00° 96-12-24-36-48-60-72-84

Meet, P1, G, form PCP

**CROWN**

C1 42.00° 03-09-15-21-27-33-39-45-  
 51-57-63-69-75-81-87-93

Set girdle thickness

C2 34.72° 96-12-24-36-48-60-72-84

Meet, C1, G

C3 19.61° 06-18-30-42-54-66-78-90

Meet, C1, C2

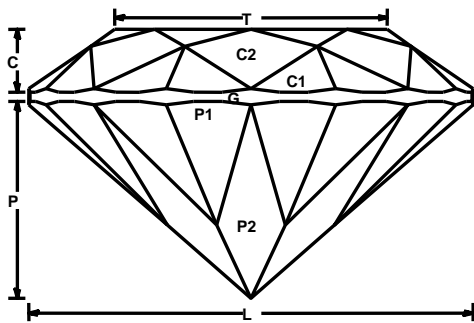
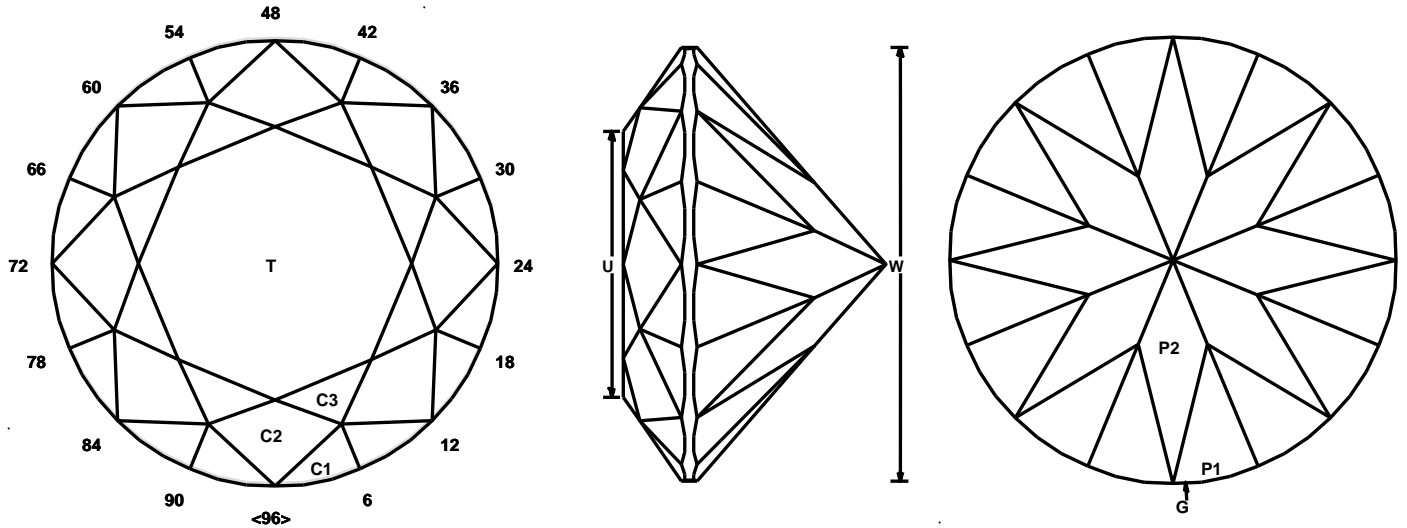
T 0.00° Table

Meet, C3, C2, C3

**SECTION: I.8A.2 – STANDARD BRILLIANT with CONTINUOUS GIRDL**

**MATERIAL – TOPAZ**

**FACETS - 58: MEETS - 41 (Crown - 24, Pavilion - 17)**



**Standard Round Brilliant with Continuous Girdle**

Angles for R.I. = 1.610

57 + 1 rolled girdle

8-fold, mirror-image symmetry

96 index

$L/W = 1.000$   $T/W = 0.516$   $U/W = 0.516$

$P/W = 0.476$   $C/W = 0.228$

$Vol. /W^3 = 0.260$

**PAVILION**

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

Create TCP

G 90.00°

Cut to size, "rolled girdle"

P2 41.00° 96-12-24-36-48-60-72-84

Meet, P1, G, form PCP

**CROWN**

C1 44.81° 03-09-15-21-27-33-39-45-  
51-57-63-69-75-81-87-93

Set girdle thickness

C2 39.00° 96-12-24-36-48-60-72-84

Meet, C1, G

C3 23.49° 06-18-30-42-54-66-78-90

Meet, C1, C2

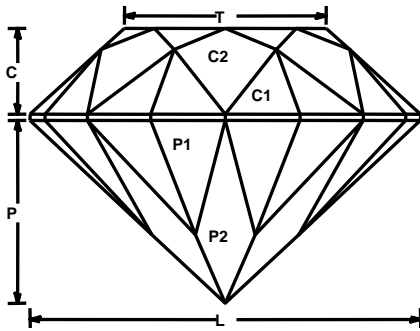
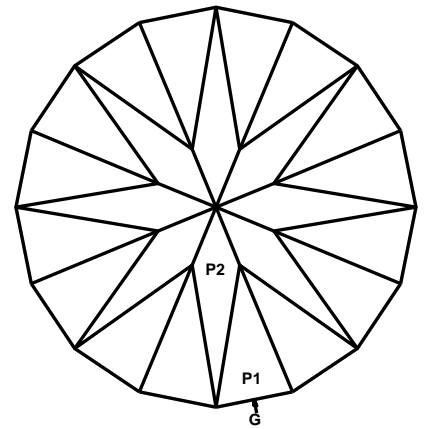
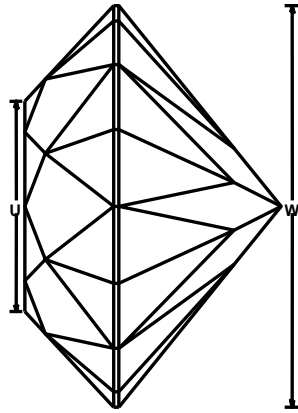
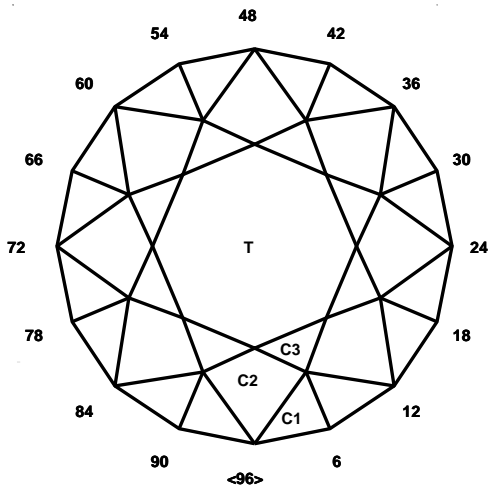
T 0.00° Table

Meet, C3, C2, C3

**SECTION: O.8B.1; N.8B.2 – STANDARD BRILLIANT WITH FACETED GIRDLER**

**MATERIAL – MM COLOURED CORUNDUM**

**FACETS - 73: MEETS - 57 (Crown - 32, Pavilion - 25)**



**STANDARD BRILLIANT WITH FACETED GIRDLER**

Angles for R.I. = 1.760  
 57 + 16 girdles = 73 facets  
 8-fold, mirror-image symmetry  
 96 index  
 $L/W = 1.000$   $T/W = 0.516$   
 $P/W = 0.466$   $C/W = 0.218$   
 $Vol. /W^3 = 0.240$

**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	Outline girdle
P2	41.00°	96-12-24-36-48-60-72-84	Cut to meet P1 - G

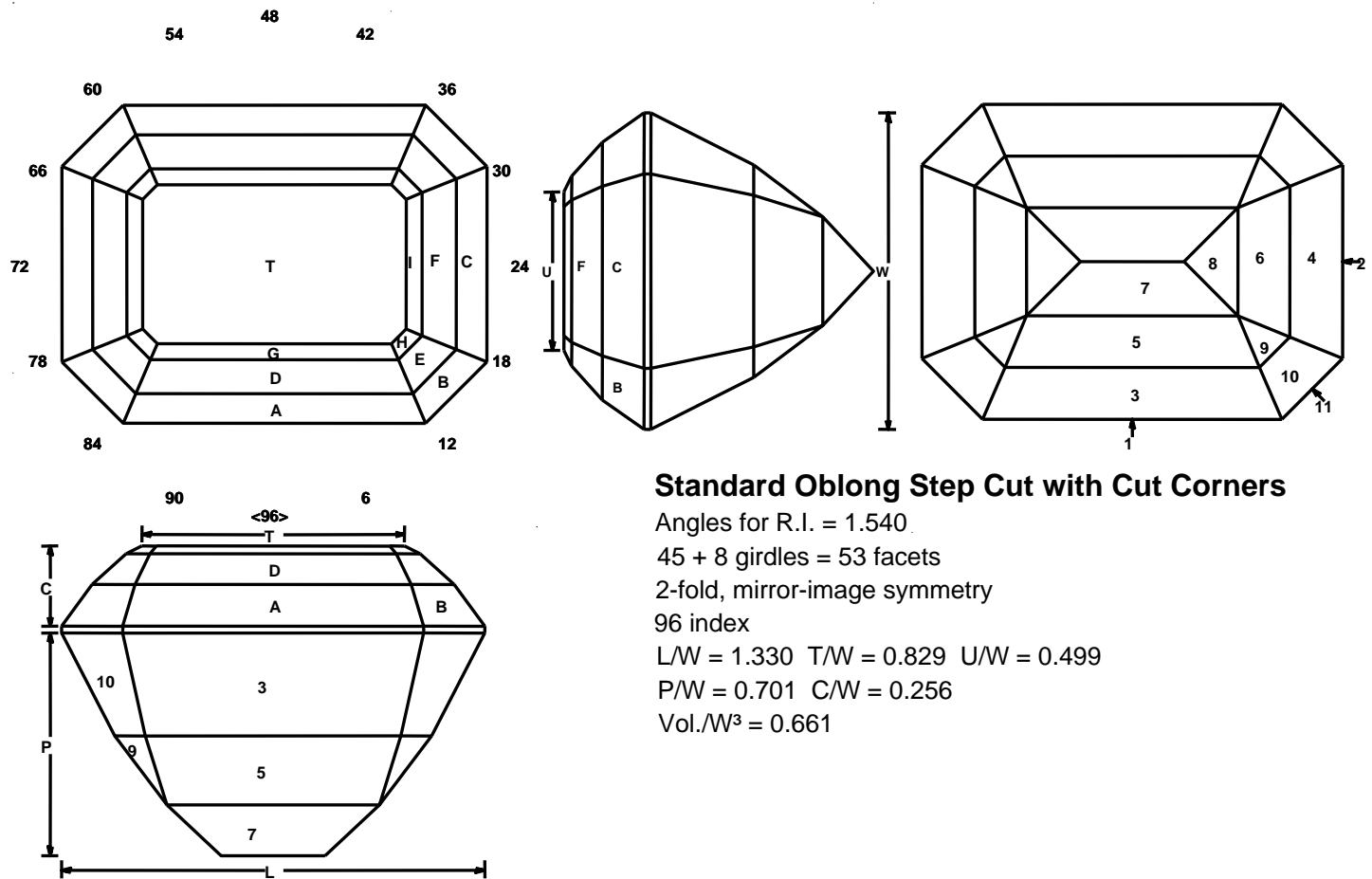
**CROWN**

C1	48.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	Set girdle width
C2	43.00°	96-12-24-36-48-60-72-84	Cut to meet C1 – G
C3	27.00°	06-18-30-42-54-66-78-90	Cut to meet C1 - C2
T	0.00°	Table	Cut to meet C3 - C2 - C3

# SECTION: O.9A.1 - STANDARD OBLONG STEP CUT WITH CUT CORNERS

MATERIAL – AUSTRALIAN LABRADORITE

FACETS - 53: MEETS - 44 (Crown - 24, Pavilion - 20)



## Standard Oblong Step Cut with Cut Corners

Angles for R.I. = 1.540

45 + 8 girdles = 53 facets

2-fold, mirror-image symmetry

96 index

$L/W = 1.330$   $T/W = 0.829$   $U/W = 0.499$

$P/W = 0.701$   $C/W = 0.256$

$Vol./W^3 = 0.661$

### PAVILION

1	90.00°	96-48	Size to Width
2	90.00°	24-72	Size to Length
3	63.00°	96-48	Locate girdle
4	63.00°	24-72	Level girdle, MP 1-2-3
5	53.00°	96-48	Cut as required
6	53.00°	24-72	MP 3-4-5
7	43.00°	96-48	Cut as required
8	43.00°	24-72	MP 5-6-7
9	53.00°	12-36-60-84	MP 5-6-7-8
10	63.00°	12-36-60-84	MP 3-5-9
11	90.00°	12-36-60-84	MP 1-3-10-2, level girdle

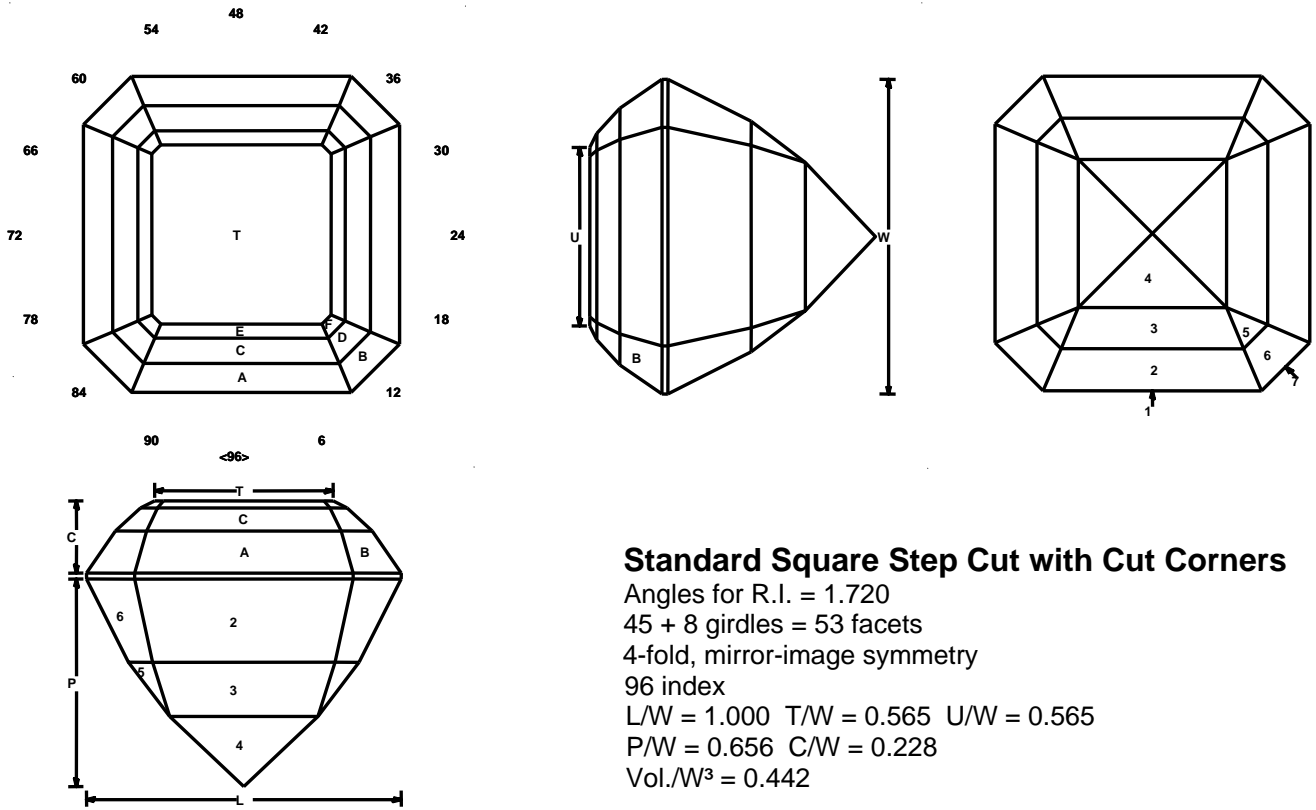
### CROWN

A	55.00°	96-48	Set girdle thickness
B	55.00°	12-36-60-84	Level girdle
C	55.00°	24-72	Level girdle
D	42.00°	96-48	Cut as required
E	42.00°	12-36-60-84	Level 2nd tier
F	42.00°	24-72	Level 2nd tier
G	27.00°	96-48	Cut as required
H	27.00°	12-36-60-84	Level 3rd tier
I	27.00°	24-72	Level 3rd tier
T	0.00°	Table	Cut as required to set 3rd tier & table

**SECTION: I.9B.1, N.9B.2, STANDARD SQUARE STEP CUT WITH CUT CORNERS**

**MATERIAL – MM SPINEL**

**FACETS - 53: MEETS - 45 (Crown - 24, Pavilion - 21)**



**Standard Square Step Cut with Cut Corners**

Angles for R.I. = 1.720  
 45 + 8 girdles = 53 facets  
 4-fold, mirror-image symmetry  
 96 index  
 $L/W = 1.000$   $T/W = 0.565$   $U/W = 0.565$   
 $P/W = 0.656$   $C/W = 0.228$   
 $Vol./W^3 = 0.442$

**PAVILION**

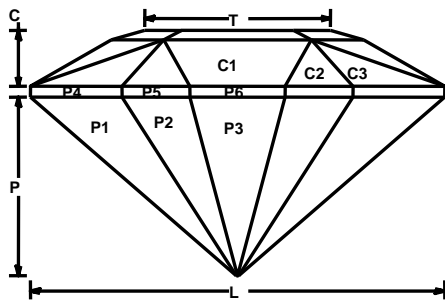
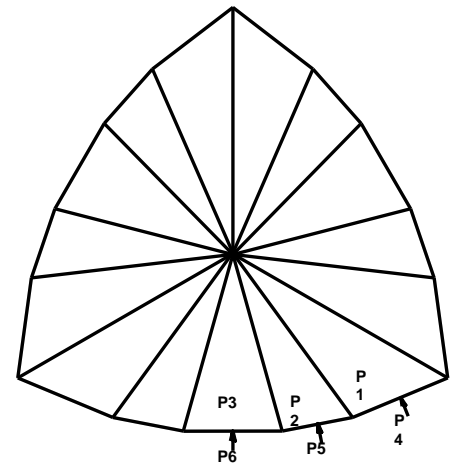
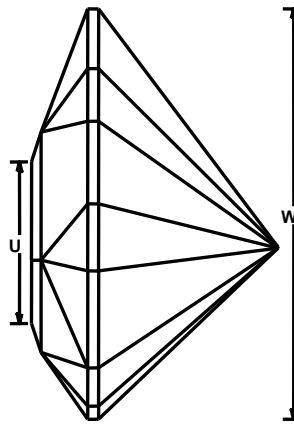
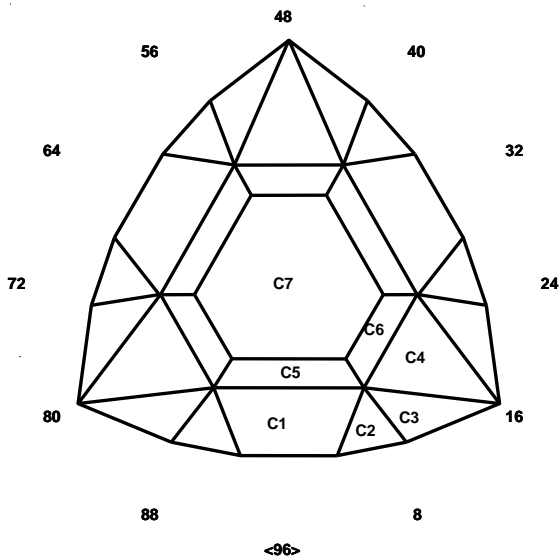
**CROWN**

PAVILION			CROWN				
1	90.00°	96-24-48-72	ECED, set size	A	55.00°	96-24-48-72	Set girdle thickness
2	63.00°	96-24-48-72	Locate girdle	B	55.00°	12-36-60-84	Level girdle thickness
3	53.00°	96-24-48-72	Cut as required	C	42.00°	96-24-48-72	Cut as required
4	43.00°	96-24-48-72	Cut as required to PCP	D	42.00°	12-36-60-84	Meet A - B - C level tier
5	53.00°	12-36-60-84	Meet 3 - 4	E	26.60°	96-24-48-72	Cut as required
6	63.00°	12-36-60-84	Meet 2 - 3 - 5, level tier	F	26.60°	12-36-60-84	Meet C - D - E level tier
7	90.00°	12-36-60-84	Meet 1 - 2 - 6 level girdle	T	0.00°	Table	Cut as required

**SECTION: O.10.1 – IMPROVED SIMPLE TRILLION**

**MATERIAL – AMETHYST**

**FACETS - 55: MEETS - 37 (Crown - 21, Pavilion - 16)**



**IMPROVED SIMPLE TRILLION**

by Jim Perkins

Angles for R.I. = 1.540

40 + 15 girdles = 55 facets

3-fold, mirror-image symmetry

96 index

$L/W = 1.010$   $T/W = 0.453$   $U/W = 0.392$

$P/W = 0.438$   $C/W = 0.137$

$Vol./W^3 = 0.177$

**PAVILION**

P1	43.40°	06-26-38-58-70-90	Create PCP
P2	45.40°	03-29-35-61-67-93	Meet at PCP
P3	46.40°	96-32-64	Meet at PCP
P4	90.00°	06-26-38-58-70-90	Close corners, level girdle.
P5	90.00°	03-29-35-61-67-93	MP, P1, P4
P6	90.00°	96-32-64	MP, P2, P5

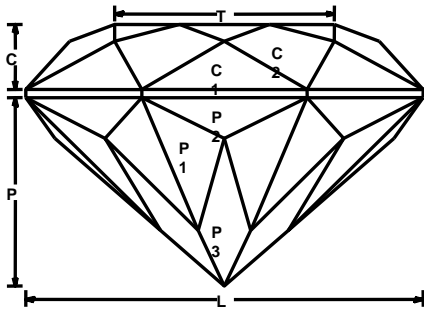
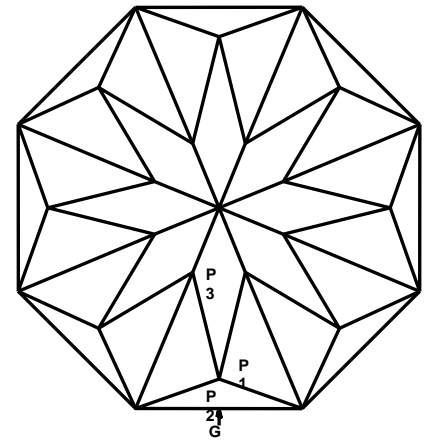
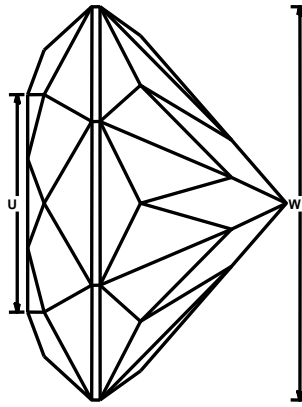
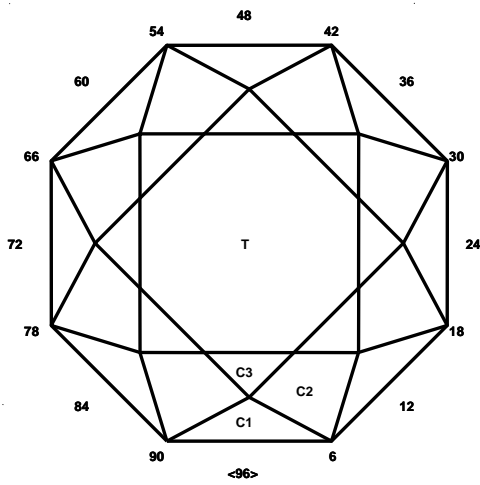
**CROWN**

C1	35.00°	96-32-64	Set girdle thickness
C2	37.70°	03-29-35-61-67-93	MP C1, P6 level girdle
C3	35.50°	06-26-38-58-70-90	MP C2, P5, level girdle
C4	20.70°	16-48-80	MP C3, P4
C5	17.70°	96-32-64	MP, C1, C2
C6	17.70°	16-48-80	MP C3, C4
C7	0.00°	Table	Cut to size

**SECTION: I.10.2 – MOUNT IDA BARION FOR QUARTZ**

**MATERIAL – CITRINE**

**FACETS - 65: MEETS - 49 (Crown - 24, Pavilion - 25)**



**Mount Ida Barion for Quartz**

by Jim Perkins 2012

Angles for R.I. = 1.540

57 + 8 girdles = 65 facets

8-fold radial symmetry

96 index

$L/W = 1.000$   $T/W = 0.553$   $U/W = 0.553$

$P/W = 0.476$   $C/W = 0.163$

$Vol./W^3 = 0.252$

**PAVILION**

P1	43.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	Create TCP
G	90.00°	96-12-24-36-48-60-72-84	Set size
P2	55.00°	96-12-24-36-48-60-72-84	Meet P1, G
P3	41.00°	96-12-24-36-48-60-72-84	Form PCP meet P1, P2

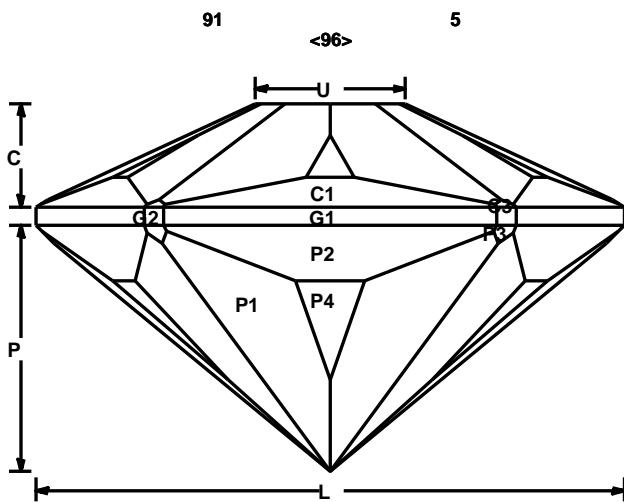
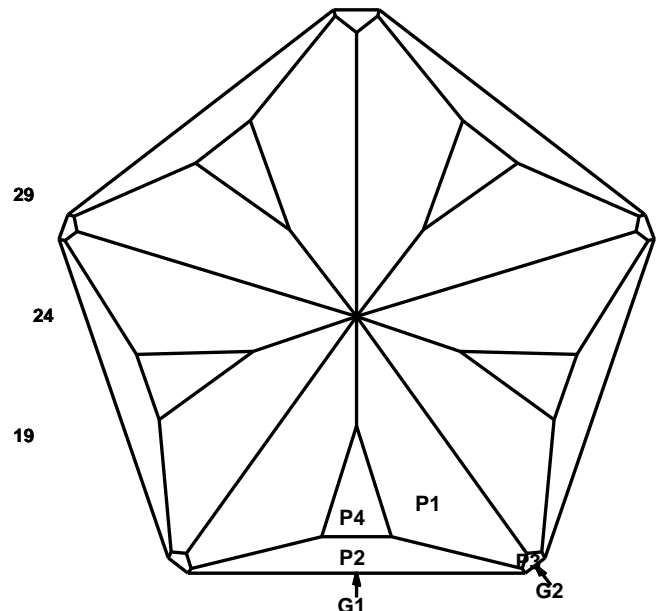
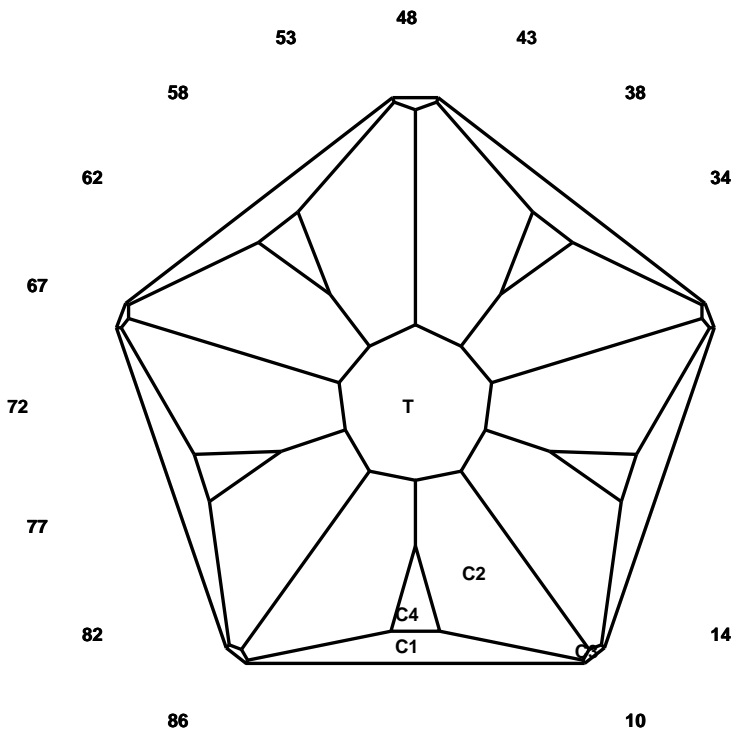
**CROWN**

C1	48.00°	96-12-24-36-48-60-72-84	Set girdle thickness
C2	34.00°	06-18-30-42-54-66-78-90	Meet C1, G
C3	20.00°	96-12-24-36-48-60-72-84	Meet C1, C2
T	0.00°	Table	Meet C2, C3

**SECTION: N.10.3 – SAKURA 96**

**MATERIAL – NATURAL COLOURED QUARTZ**

**FACETS – 61: MEETS – 21 (Crown - 10, Pavilion - 11)**



**Sakura 96**

Marco Voltolini

Angles for R.I. = 1.540

51 + 10 girdles = 61 facets

5-fold, mirror-image symmetry

96 index

L/W = 1.056 T/W = 0.275 U/W = 0.270

P/W = 0.444 C/W = 0.186

Vol./W<sup>3</sup> = 0.214

**PAVILION**

G1	90.00°	96-19-38-58-77	Cut a pentagonal prism, be precise
G2	90.00°	10-29-48-67-86	Cut the edge of the pentagon a little....
P1	41.00°	03-16-22-35-41-55-61-74-80-93	CTP
P2	57.21°	96-19-38-58-77	Set girdle, cut to virtual meetpoint with P1
P3	52.00°	10-29-48-67-86	Be careful to cut these...
P4	42.15°	96-19-38-58-77	Cut to look good

**CROWN**

C1	43.71°	96-19-38-58-77	Set girdle width
C2	26.00°	03-16-22-35-41-55-61-74-80-93	Virtual meetpoint with C1...
C3	43.71°	10-29-48-67-86	Cut these small facets to meet the girdle
C4	26.85°	96-19-38-58-77	Cut to look good, be careful to let enough room for the table
T	0.00°	Table	Cut a small table

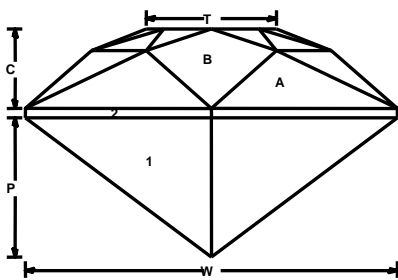
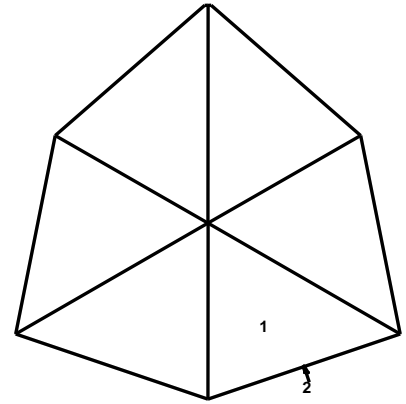
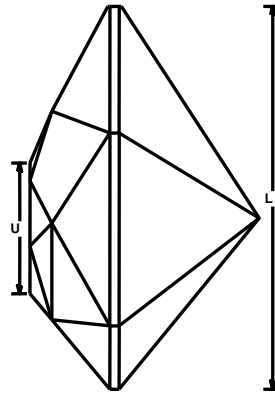
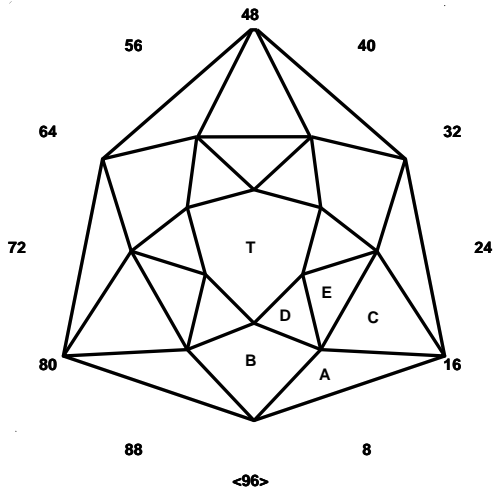
This information is courtesy of <http://gemologyproject.com/> The Gemology Project



**SECTION: J.10.4 - TRILLED**

**MATERIAL – ANY NATURAL QUARTZ**

**FACETS - 34: MEETS - 25 (Crown - 18, Pavilion - 7)**



**Trilled**

by Marco Voltolini  
 Angles for R.I. = 1.540  
 28 + 6 girdles = 34 facets  
 3-fold, mirror-image symmetry  
 96 index  
 $L/W = 1.027$   $T/W = 0.352$   $U/W = 0.352$   
 $P/W = 0.377$   $C/W = 0.214$   
 $Vol./W^3 = 0.189$

**PAVILION**

1	41.00°	05-27-37-59-69-91	Create TCP
2	90.00°	05-27-37-59-69-91	Set stone size

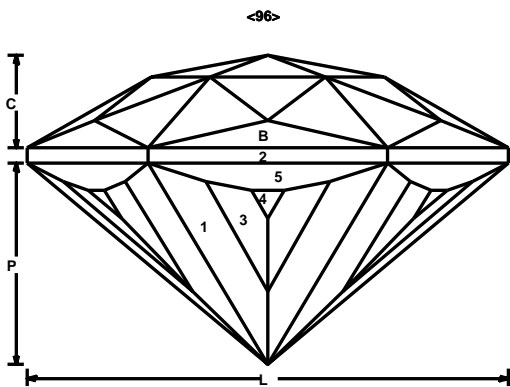
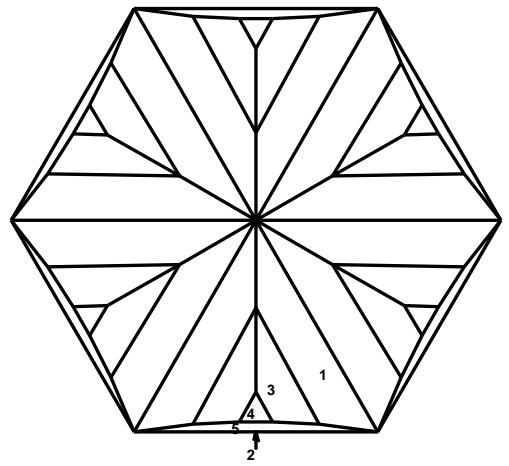
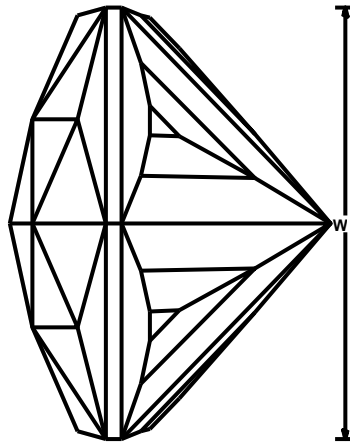
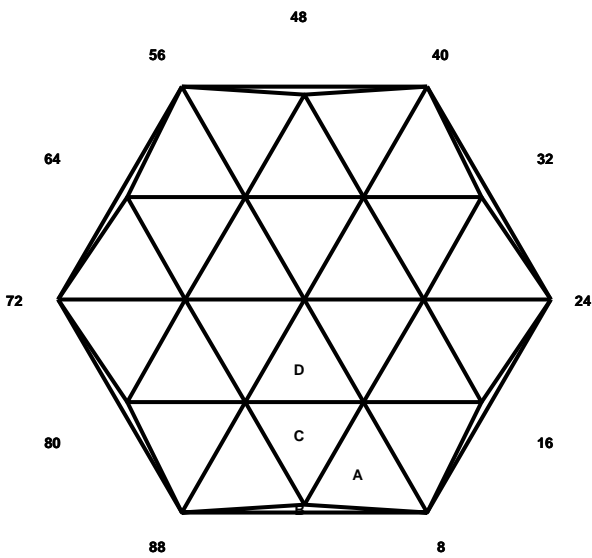
**CROWN**

A	52.43°	05-27-37-59-69-91	Set girdle thickness
B	40.00°	96-32-64	Meet 2, A
C	28.24°	16-48-80	Meet 2, A
D	18.73°	12-20-44-52-76-84	Meet A, B, C
E	22.87°	16-48-80	Meet A, B, C, D
T	0.00°	Table	Meet B, D & D, E

**SECTION: O.11.1 – HARD ROKU**

**MATERIAL – NATURAL BLUE TOPAZ**

**FACETS - 72: MEETS - 32 (Crown - 19, Pavilion - 13)**



**Hard Roku**

Marco Voltolini

Angles for R.I. = 1.610

66 + 6 girdles = 72 facets

6-fold, mirror-image symmetry

96 index

L/W = 1.155

P/W = 0.485 C/W = 0.222

Vol. /W<sup>3</sup> = 0.287

**PAVILION**

1	41.00°	04-12-20-28-36-44-52-60-68-76-84-92	Centerpoint
2	90.00°	96-16-32-48-64-80	Set stone size
3	42.17°	02-14-18-30-34-46-50-62-66-78-82-94	No meets (cut even "steps")
4	44.00°	96-16-32-48-64-80	No meets
5	69.34°	96-16-32-48-64-80	Level girdle

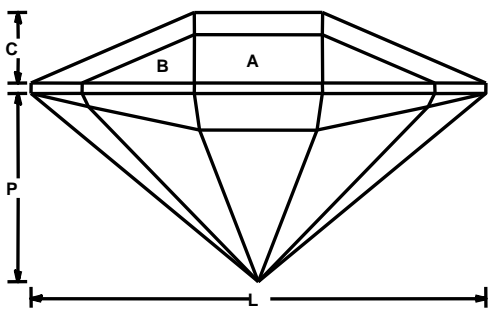
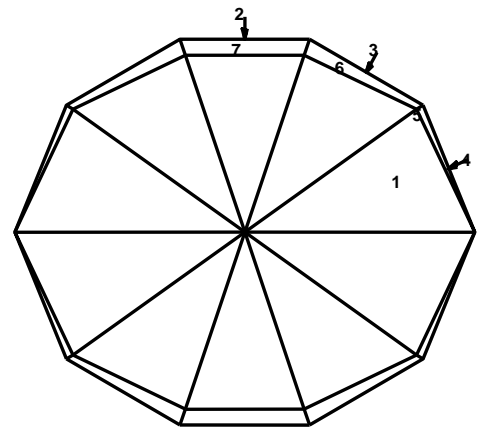
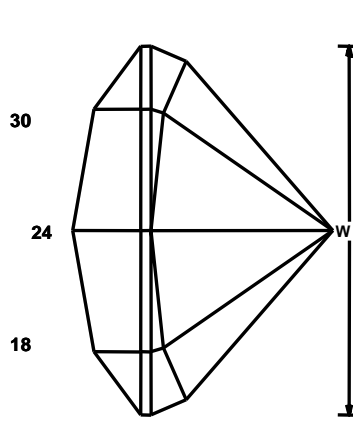
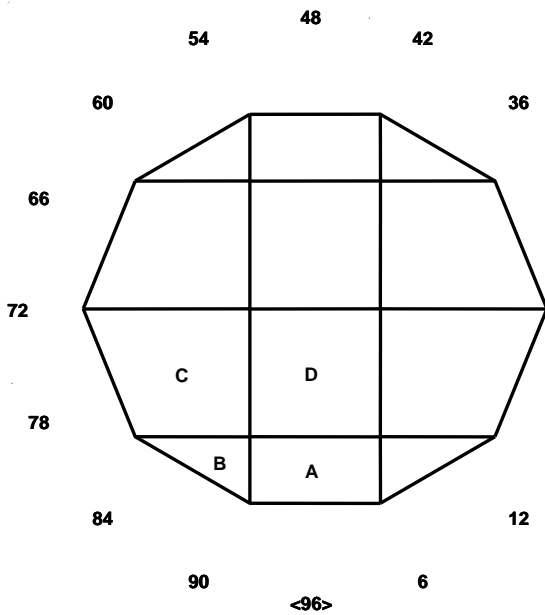
**CROWN**

A	30.00°	05-11-21-27-37-43-53-59-69-75-85-91	Set girdle thickness
B	73.62°	96-16-32-48-64-80	Level girdle
C	23.67°	96-16-32-48-64-80	Meet B
D	12.36°	96-16-32-48-64-80	Meet A

SECTION: I.11.2 – SHOUGA

MATERIAL – COLOURED CUBIC ZIRCONIA

FACETS - 42: MEETS - 35 (Crown - 16, Pavilion - 19)



**Shouga**

by Marco Voltolini

Angles for R.I. = 2.160

32 + 10 girdles = 42 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.199 P/W = 0.493 C/W = 0.185

Vol./W<sup>3</sup> = 0.278

PAVILION

1	41.00°	96-10-19-29-38-48-58-67-77-86
2	90.00°	96-48
3	90.00°	08-40-56-88
4	90.00°	18-30-66-78
5	64.20°	18-30-66-78
6	65.67°	08-40-56-88
7	66.42°	96-48

CROWN

A	36.73°	96-48
B	40.75°	08-40-56-88
C	25.00°	18-30-66-78
D	10.12°	96-48

Create centerpoint

Set stone size. Cut OMNI

The barion "wings": level girdle

Set girdle thickness

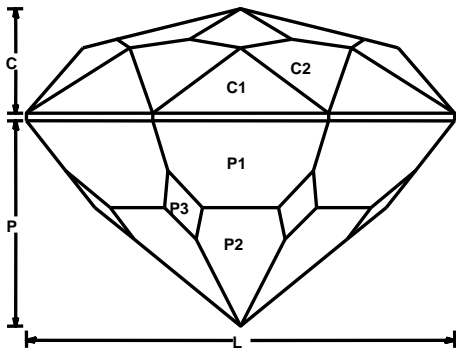
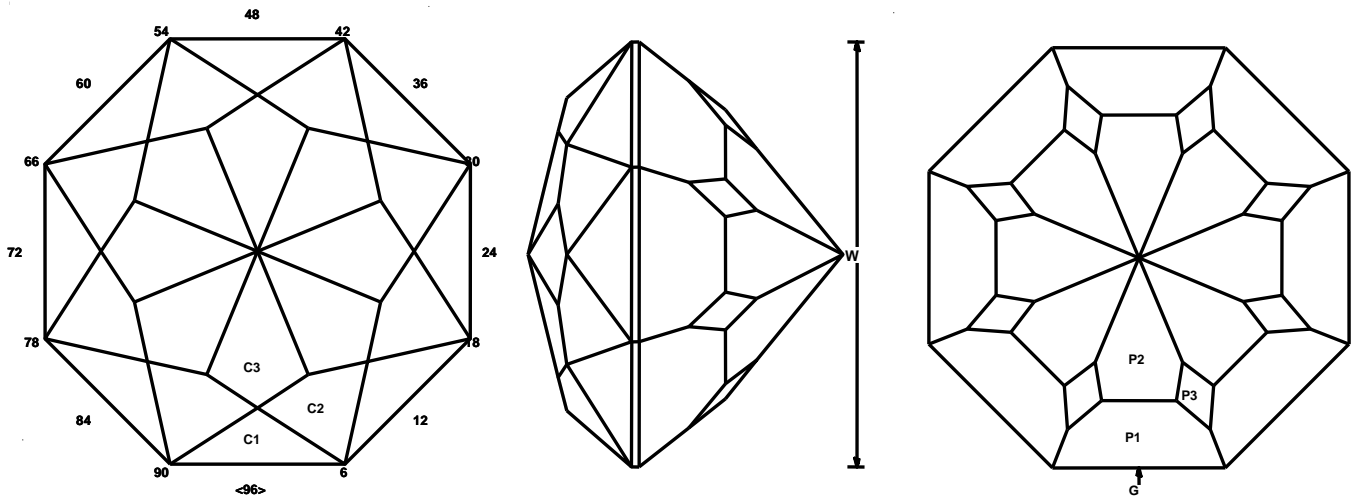
Level girdle

Meet B

**SECTION: N.11.3 – APEX OCTAGON**

**MATERIAL – COLOURED CUBIC ZIRCONIA**

**FACETS - 56: MEETS - 26 (Crown - 17, Pavilion - 9)**



**APEX OCTAGON**

by Sammy Fangrath (1984)

Angles for R.I. = 2.160

48 + 8 girdles = 56 facets

8-fold, mirror-image symmetry

96 index

$L/W = 1.000$   $P/W = 0.479$   $C/W = 0.243$

$Vol./W^3 = 0.277$

**PAVILION**

P1	52.00°	96-12-24-36-48-60-72-84	Create TCP
G	90.00°	96-12-24-36-48-60-72-84	Set size
P2	39.00°	96-12-24-36-48-60-72-84	Form level & PCP
P3	43.00°	06-18-30-42-54-66-78-90	Create floating facets as required

**CROWN**

C1	49.00°	96-12-24-36-48-60-72-84	Set girdle thickness
C2	37.00°	06-18-30-42-54-66-78-90	Meet C1, G
C3	14.00°	96-12-24-36-48-60-72-84	Meet C1, C2, form crown culet