



**INTERNATIONAL INDIVIDUAL FACETING  
CHAMPIONSHIP**

and

**INTERNATIONAL FACETING TEAMS COMPETITION**

**2024**

**SCHEDULE and DESIGNS**

# **2024 INTERNATIONAL INDIVIDUAL FACETING CHAMPIONSHIP**

**AND**

## **2024 INTERNATIONAL FACETING TEAMS CHALLENGE**

### **Introduction**

The International Faceting Challenge, sponsored by the Australian Facetors' Guild Limited, is a two-part competition open to all experienced Facetors from around the world.

The primary competition is the Individual Faceting Championship where each entrant shall cut ALL 3 stones specified in this schedule with the scores contributing to their final count.

The International Faceting Teams Challenge consists of entries from countries or regions that have sufficient entrants to make up a 4 member team from the Individual Faceting Championship.

### **IFC 2024 AUSTRALIAN CO-ORDINATOR**

The Australian contact for all matters pertaining to the Championship & Challenge is:

IFC Competition  
Att Reginald Hall  
Parcel Locker 10139 62435  
340 High Street  
Melton 3337  
AUSTRALIA

E-mail address: [comp-cord@facetorsguild.com.au](mailto:comp-cord@facetorsguild.com.au)

**A. BOTH COMPETITIONS: ORGANISATIONAL ASPECTS**

- A1. Every effort is made to ensure that this Competition Schedule is available to potential entrants at least 12 months prior to the competition and will only be available for viewing and download from the Australian Facetor's Guild Website:

**[www.facetorsguild.com.au](http://www.facetorsguild.com.au)**

**A2. THERE ARE NO ENTRY FEES OR RETURN POSTAGE FEES**

- A3. Entrants shall mail their stones by airmail to the address given on the entry form. It is strongly suggested that overseas entrants label their packages "Lapidary Competition Entries to be returned", **with no reference to gemstones**. To minimise possible difficulties with Australian Customs, it is recommended that entrants include a copy of their entry form with their stones, and put a **nominal** value on the customs declaration forms which must be fixed to the package.
- A4. Insurance, packaging, full postage to Australia is the responsibility of each competitor. Each stone must be labelled with the Section Number, material name, size of stone, colour, cut and, if possible, accurate carat weight in individual screw lid containers within the whole package.

**A5. The closing date for entries is:**

**5th January 2024**

- A6. Results of these competitions will be announced, and all entries will be displayed at the Australian National Gem and Mineral Show, **29 March to 1 April, 2024 in Willunga, Sth. Australia, during the 2024 GEMBOREE®**.
- A7. Entries together with judging sheets will be carefully repacked and returned as indicated on the entry form as soon as possible after the conclusion of the 2024 GEMBOREE®.
- A8. The Committee will exercise every possible care of the stone entries, but it cannot be held responsible for any loss or damage during transportation, judging, displaying or storage.

## **Schedule and Conditions**

### **B. 2024 INTERNATIONAL INDIVIDUAL FACETING CHAMPIONSHIP**

- B1. The Individual Faceting Championship shall be contested every two years.
- B2. All entrants are eligible for this competition, irrespective of whether or not they are members of a faceting guild or club. Membership of the Australian Facetors' Guild Limited is not a prerequisite for entry.
- B3. An entry will comprise and be scored for ALL 3 sections by an entrant.
- B4. The individual winner will be the entrant with the highest aggregate points for their three stones.

### **C. 2024 INTERNATIONAL FACETING CHALLENGE: TEAM COMPETITION**

- C1. All entrants in the Individual Faceting Championship are eligible for the Team Competition.
- C2. The four entrants from each country/region who obtain the highest points for their three highest scoring stones will constitute the team for their country/region and their points will be totalled. The highest total of these combined points will determine the winning country/region.
- C3. The Challenge Cup, which is a perpetual trophy, will remain the property of the Australian Facetors' Guild Limited. The cup will be contested simultaneously with the Individual Faceting Championship.
- C4. The Challenge Cup will remain with the Australian Facetors' Guild regardless of the winner of the cup. The responsibility for security of the Challenge Cup will therefore be the duty of the Australian Facetors' Guild Limited.
- C5. The Australian Facetors' Guild will make the Challenge Cup available bi-ennially, for display at the Australian Federation of Lapidary and Allied Crafts Associations' National Gem and Mineral Show held at Easter, for formal presentation to a representative of the winning country/region. (This Australian Gem and Mineral Show is held annually and is known as the GEMBOREE®).
- C6. The Challenge will be conducted by the Australian Facetors' Guild Limited. The IFC will be financed by the AFG, and by donations from interested overseas guilds, and from any interested individuals.
- C7. To enable entrants from countries without teams to be involved in the team competition the top four entrants from other countries will be called 'the rest of the world team'.

### **D. AWARDS**

- D1. Gold and Silver medallions shall be awarded for first and second place in the Individual competition as well as for members of the first and second place in the Teams competition.  
The winning team members will also be recognised by their names being added to the perpetual trophy for that year of the Challenge.

## E. BOTH COMPETITIONS. TECHNICAL ASPECTS

- E1. The cuts chosen for this Competition are considered to be of a technical nature to test the abilities of entrants. Facetors around the world are invited to nominate designs for future selection, provided those designs include a computer-generated diagram, instructions and photographic evidence to verify the design. The Challenge committee cannot assume responsibility for the stones submitted with the designs, but every possible care will be taken of them while they are in the Committee's possession. After selections have been made, stones will be returned at the nominator's expense.
- E2. The angles provided with the designs in this schedule are for guidance only. Entrants may vary the angles only slightly to achieve meet points if necessary, provided the original **plan view** of the shapes and arrangements of facets, meet points, and the table area of the design **is not changed** in any detectable manner. If the shape or arrangements of facets has in any way been noticeably altered, including rotational facing facets, the entry will be disqualified, resulting in disqualification of the entrant; i.e. **the stone must be identical to the design in the schedule**. As can be seen from the Points Allocation, angles are not measured during judging.
- E3. Magnification for judging will be with a 10X Triplet Aplanatic Loupe.
- E4. **Girdle Thickness will be calculated at a maximum of 5% of Total Height for all designs OR as specified on the diagram** and measured by the Judge using a 10x Graticule Loupe.
- E5. All stones will be judged under lighting having a maximum equivalent to a single 25 – 40W Clear Incandescent Lamp or 28W Energy Saving Halogen Globe.
- E6. **AN ENTRY IS COMPULSORY IN ALL THREE SECTIONS**
- E7. A completed entry form constitutes acceptance of this Schedule and Conditions, and is an agreement to comply with them.
- E8. No person is permitted to act as Judge, Judge's Assistant, Steward, Observer, or in any way to assist with the judging of any Section of which he/she or members of his/her immediate family are entrants. Members of the organising committee may compete in the competition but are subject to the restrictions stated in this clause.
- E9. (Protests). If an entrant believes that one or more of their stones has not been scored correctly, they may lodge an appeal to the IFC Committee setting out the precise details of their complaint. The appeal, which must be in writing, should be lodged as soon as possible but **must be submitted by 31/5/2024**.
- E10. (Protests). The stone/stones in question along with a copy of the original judging sheet must be returned to the IFC Committee in Australia and must be accompanied by the written appeal to the IFC Committee. The entrant must pay any freight and insurance.
- E11. (Protests). The IFC Committee will refer the appeal (and hand over the stone/stones) to the Judging and Rules (J&R) Committee of the Australian Facetors' Guild Limited for adjudication.  
The adjudication will be made as near as possible under the same conditions that applied in the original judging. (e.g. magnification, lighting).

- E12. (Protests). The J&R Committee shall adjudicate on the appeal as soon as possible. None of the J&R Committee members shall be members of the IFC Committee. They shall not have been involved in the original judging and shall not be related to the appellant.
- E13. (Protests). The decision of the Judging and Rules (J&R) Committee shall be **FINAL** and no further correspondence shall be entered into.

## **CONDITIONS FOR COMPETITION**

### **METHOD OF JUDGING**

- F1. This Competition is held in accordance with this schedule and conditions within.
- F2. Each entry is not judged against its competitors, but is assessed against an established standard and the Judging Sheet Features. The resulting score is the measurement of excellence achieved, or how nearly it reaches the standard.
- F3. The conditions and definitions of this Schedule should be interpreted sensibly and in all cases where there is doubt, the Competitor shall be given the benefit.
- F4. All entries in an individual Section will be judged by the one Judge.
- F5. No person is permitted to act as Judge, Judge's Assistant, Steward, or in any way assist with the judging of any Section of which he/she or members of his/her immediate family are entrants.
- F6. No person, other than Judges, Assistants or Stewards, is permitted in the vicinity of exhibits whilst judging is in progress.
- F7. No one, including Assistants and Stewards, is permitted to influence Judges in the execution of their duty.
- F8. Only the Competition Committee can rule ineligible an entry or an item which is part of an entry. The reason for ruling an item ineligible must be written on the judging sheet and signed by the Competition Committee.

However, JUDGES MUST CONSULT WITH COMPETITION COMMITTEE if they consider an entry or part of an entry is ineligible

- F9. Entries will be judged by eye or at the specified magnification as given for each Competition Section.(item E3 & E4)
- F10. Entries will be judged under the lighting conditions specified within this schedule. (item E5)
- F11. Entries will be judged on the judging features set out on the sample Points Allocation Sheets given for each Section in this Schedule.

## **JUDGE RESPONSIBILITIES**

- F12. Judges shall assess each judging feature applicable to the Section being judged and award points according to how near to the standard it reaches.
- F13. Judges shall assess all entries in a Section at the magnification specified in this Schedule.
- F14. Judges are not required to total up points on judging sheets. This is the responsibility of the Competition Committee.
- F15. Judges do not rule on eligibility - this is the Competition Committee's responsibility. However, should a Judge suspect an entry is not eligible, or they are uncertain on any interpretation of the rules and conditions, they **MUST** refer the matter to the Competition Committee for a ruling.
- F16. Judges should, whenever possible, give constructive comments on the work judged and be prepared to discuss rulings and interpretations with Competitors.
- F17. When an entry has been ruled ineligible, the Judge shall judge the entry if so requested by the Competition Committee, in the interests of helping the competitor. However, the points will not be displayed or recorded and the entry will not be eligible for any awards. The Competition Committee **MUST** write on the judging sheet **INELIGIBLE** and give reasons for the ruling.

## **COMMENTS FROM THE COMPETITION COMMITTEE**

### **Angles.**

The designs included in this Schedule are the latest computer - generated diagrams. The angles given are for materials selected by the designer. Competitors are expected, where necessary, to convert the design angles given to angles suitable for the nominated material. The Committee does not guarantee either the precision of the angles given or the listed sequences for cutting.

### **Size.**

Entrants should be careful to ensure that the size of their stones conforms to the Schedule and diagram. Please read the Schedule carefully.

It is strongly recommended that the material chosen be of a light colour. See next note.

### **Visual Effect**

The following feature now applies:-

As of 2014 the Optical Penalty has been removed from the points allocation and Visual Effect included to take its place. This is to allow our judges to use the judging criteria that they use in all Australian competitions so as not to cause confusion.

The cutting of a stone with inferior optical properties - "windows", "fish eyes", "nail heads", "bowties", "dark facets" or overall dullness cannot be ignored, and such cutting will be penalised.

This will be done by subtracting points from the Visual effect allocation depending on the degree of effect on the stone as observed by the Judge.

Dull stones, resulting from incorrect angles or poor selection of dark rough material, will be similarly treated.

Raytrace patterns are not used in the judging process, but may be used to assist the Committee in selecting designs which, if cut correctly, will produce bright, attractive stones.

## **2024 INTERNATIONAL FACETING CHALLENGE SECTIONS**

**Entry is COMPULSORY in ALL 3 sections detailed below.**

### **SECTION A**

#### **Eureka Diamond**

Material - to be cut in Colourless Topaz

Minimum Size 10.0 mm - 0.1 mm (measured along Longest axis of plan view.)

### **SECTION B**

#### **FVS 141, The Eagle-Eye Cut**

Material - to be cut in Coloured CZ

Minimum Size 10.0 mm - 0.1 mm (measured along Longest axis of plan view.)

### **SECTION C**

#### **Southern Cross**

Material - to be cut in Coloured Quartz – Natural or MM

Minimum Size 10.0 mm - 0.1 mm (measured along Longest axis of plan view)



# JUDGING POINTS ALLOCATION

**SECTIONS A, B & C** These are all Modified Cuts and will be judged under the following set of points using the Judging Sheet shown below.

## Section 10 - MODIFIED STANDARD CUTS

JUDGE ..... SECTION No. ....

ENTRY No. ....

DESCRIPTION ..... SIZE .....

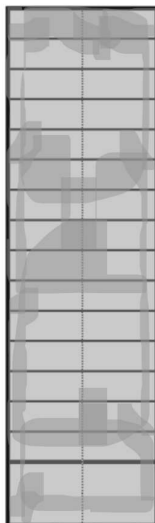
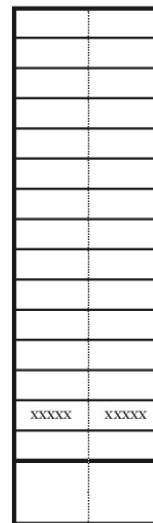
HEIGHT ..... Max GIRDLE WIDTH ..... DIAGONAL .....

No. of Facets ..... No. of Meets .....

**\*Competition Committee to indicate whichever is applicable**

**\*Continuous Girdle**

**\*Faceted Girdle**

	6	Visual Effect .....	6	
	4	Outline of Girdle .....	5	
	3	Table Parallel to Girdle Plane .....	3	
	16	Meets Pointing Up .....	19	
	13	Facets Uniform .....	15	
	6	Facet Edges Sharp .....	6	
	6	Facet Surfaces True .....	6	
	10	Scratches .....	10	
	10	Polish .....	10	
	7	Chips .....	7	
	4	Flaws .....	4	
	3	Girdle Uniform .....	5	
	3	Girdle Too Wide .....	3	
	8	Orientation of Crown & Pavilion Facets ...	0	XXXXX XXXXX
1	Foreign Surface Material .....	1		
100	TOTAL POSSIBLE	100		

JUDGE COMMENTS .....

.....

.....

.....

.....

JUDGE SIGNATURE ..... DATE .....

# INTERNATIONAL FACETING CHALLENGE 2024

## OFFICIAL ENTRY FORM

This Form **AND** Entries must reach the Competition Committee by the **5th January, 2024** at the following address:

IFC Competition  
Att Reginald Hall  
Parcel Locker 10139 62435  
340 High Street  
Melton 3337  
AUSTRALIA

### (Please Print Clearly)

Name .....

Address .....

City .....STATE.....

COUNTRY .....Post (Zip) Code .....

Telephone Number .....

E-mail Address (important).....

My entries will be collected at the GEMBOREE® :

**OR**

Return postage by REGISTERED POST :

I have read and agree to follow and abide by the rules of this competition and hereby state the stones entered by me are my own work.

**I understand that failure to abide by these rules may lead to disqualification of my entries.**

Signed: ..... Date: ...../...../.....

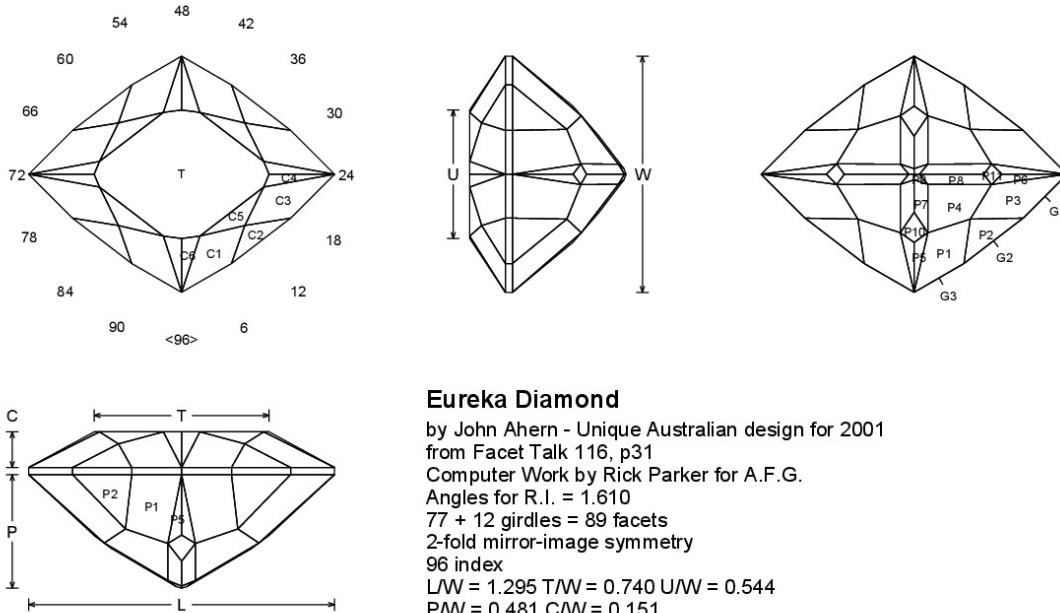
# INTERNATIONAL FACETING CHALLENGE 2024

## Section A Eureka Diamond

Material Colourless Topaz

Minimum Size 10.0 mm - 0.1mm Measured Along Longest Axis of Outline Plan

Facets: 77 + 12 Girdles; Meets: 53 (Crown – 24, Pavilion – 29)



### Eureka Diamond

by John Ahern - Unique Australian design for 2001  
 from Facet Talk 116, p31  
 Computer Work by Rick Parker for A.F.G.  
 Angles for R.I. = 1.610  
 77 + 12 girdles = 89 facets  
 2-fold mirror-image symmetry  
 96 index  
 $L/W = 1.295$   $T/W = 0.740$   $U/W = 0.544$   
 $P/W = 0.481$   $C/W = 0.151$   
 $Vol./W^3 = 0.243$

### Pavilion

PF1	43.40	{12-36-60-84}	
PF2	45.00	{08-40-56-88}	
PF3	45.30	{10-38-58-86}	
G1	90.00	12-36-60-84	set stone length
G2	90.00	10-38-58-86	level girdle
G3	90.00	08-40-56-88	level girdle
P1	57.00	08-40-56-88	set pavilion depth
P2	60.00	10-38-58-86	level girdle
P3	56.00	12-36-60-84	level girdle
P4	44.00	10-38-58-86	meet P1 P2 P3
P5	51.00	03-45-51-93	meet @ girdle
P6	43.50	21-27-69-75	meet @ girdle
P7	38.00	03-45-51-93	meet P1 P4 P5
P8	31.00	21-27-69-75	meet P3 P4 P6
P9	25.00	10-38-58-86	meet P4 P7 P8, PCP
P10	41.00	96-48	meet P1 P4 P5 P7
P11	36.80	24-72	meet P3 P4 P6 P8

### Crown

C1	42.00	08-40-56-88	set girdle width
C2	47.00	10-38-58-86	level girdle
C3	41.00	12-36-60-84	level girdle
C4	30.50	18-30-66-78	meet @ girdle
C5	32.30	10-38-58-86	meet C1 C2 C3
T	0.00	Table	meet C3 C4 C5
C6	33.73	02-46-50-94	meet C1 C5 T & @ girdle - cheat angle to suit

Preform added by Henk Prins 2017.

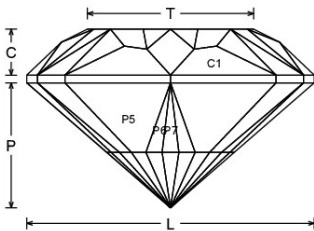
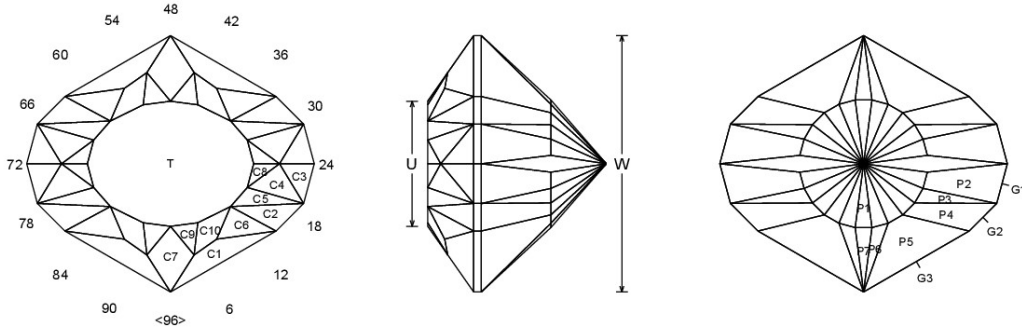
# INTERNATIONAL FACETING CHALLENGE 2024

## Section B FVS 141, The Eagle-Eye Cut

Material Coloured CZ

Minimum Size 10.0 mm - 0.1mm Measured Along Longest Axis of Outline Plan

Facets: 97 + 12 Girdles; Meets: 61 (Crown – 28, Pavilion – 33)



### FVS 141, The Eagle-Eye Cut

by Fred Van Sant  
 from Facet Talk 68, p35  
 Computer Work by Rick Parker for A.F.G.  
 Angles for R.I. = 2.150  
 97 + 12 girdles = 109 facets  
 2-fold mirror-image symmetry  
 96 index  
 $L/W = 1.121$   $T/W = 0.649$   $U/W = 0.488$   
 $P/W = 0.487$   $C/W = 0.179$   
 $Vol./W^3 = 0.242$

#### Pavilion

PF1	41.00	{08-40-56-88}	
PF2	38.30	{12-36-60-84}	
PF3	34.80	{20-28-68-76}	
G1	90.00	20-28-68-76	set stone length
G2	90.00	12-36-60-84	level girdle
G3	90.00	08-40-56-88	level girdle
P1	41.00	96-04-08-12-16-20-24-28-32-36-40-44-48-52-56-60-64-68-72-76-80-84-88-92	PCP
P2	42.80	20-28-68-76	level girdle
P3	44.26	16-32-64-80	meet P2 @ G & P1 P2 - NOTE 1
P4	49.96	12-36-60-84	meet P2 P3 @ G & P1 P3 - NOTE 1
P5	55.81	08-40-56-88	meet P4 @ G & P1 P4 - NOTE 1
P6	49.18	04-44-52-92	meet P5 @ G & P1 P5 - NOTE 1
P7	47.18	96-48	meet P5 P6 @ G & P1 P6 - NOTE 1

#### Crown

C1	52.00	08-40-56-88	set girdle width
C2	42.90	12-36-60-84	level girdle
C3	44.50	20-28-68-76	level girdle
C4	39.00	16-32-64-80	meet C2 C3 @ G
C5	41.00	13-35-61-83	meet C2 C3 C4 @ G
C6	44.30	10-38-58-86	meet C1 C2 @ G
C7	35.00	96-48	meet C1 @ G
T	0.00	Table	meet C2 C5 C6
C8	27.47	20-28-68-76	meet C3 C4 & C4 C5 T - NOTE 1
C9	32.50	02-46-50-94	meet C7 T
C10	36.31	07-41-55-89	meet C1 C7 C9 & C2 C5 C6 T - NOTE 1

NOTE 1: Cheat angle to achieve both meet points.

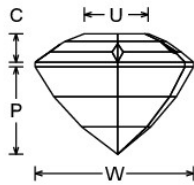
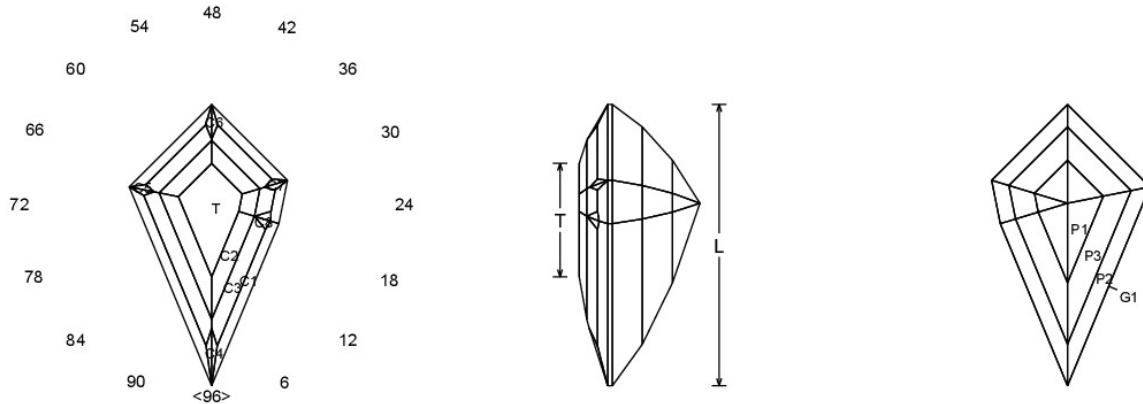
# INTERNATIONAL FACETING CHALLENGE 2024

## Section C Southern Cross

**Material Coloured Quartz – Natural or MM**

**Minimum Size 10.0 mm - 0.1mm Measured Along Longest Axis of Outline Plan**

**Facets: 41 + 5 Girdles; Meets: 36 (Crown – 20, Pavilion – 16)**



### Southern Cross

by Peter Stringfellow - Unique Australian design for 2001

from Facet Talk 116, p19

Computer Work by Rick Parker for A.F.G.

Angles for R.I. = 1.540

41 + 5 girdles = 46 facets

96 index

$L/W = 1.778$   $T/W = 0.717$   $U/W = 0.403$

$P/W = 0.553$   $C/W = 0.180$

$Vol./W^3 = 0.338$

### Pavilion

P1	42.00	18-36-60-75-78
G1	90.00	18-36-60-75-78
P2	62.00	18-36-60-75-78
P3	52.00	18-36-60-75-78

### PCP

cut outline shape and level girdle  
set pavilion depth  
cut to achieve 3 equal tiers

### Crown

C1	45.00	18-21-36-60-78
T	0.00	Table
C2	25.00	18-21-36-60-78
C3	35.00	18-21-36-60-78
C4	30.00	15-81
C5	36.00	65-73
C6	33.00	41-55
C7	37.00	26-31
C8	36.00	19-20

set girdle width  
set crown height  
set table size  
cut to achieve 3 equal tiers  
Star Alpha - meet @ girdle  
Star Beta - meet @ girdle  
Star Gamma - meet @ girdle  
Star Delta - meet @ girdle  
Star Epsilon - meet C2 C3

### IMPORTANT NOTE

To be eligible this Entry must be cut as shown.

Mirror image Entries will not be eligible.