2023 ANNUAL FACETING COMPETITION SCHEDULE



CONDITIONS DIAGRAMS & ENTRY FORM

Class AwardsSponsored by







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CONDITIONS, AWARDS, DIAGRAMS, ENTRY FORM.

CONDITIONS OF ENTRY:

- 1. Unless otherwise stated in these Conditions, this competition is staged for competitors in accordance with the Competition & Judging Manual No. 8, issued April 2015 by the Australian Federation of Lapidary & Allied Crafts Association (AFLACA).
- 2. This is a Level 3 competition as defined in the AFLACA Judging & Rules Manual on page 6. Copies of the Manual are available from the AFG Supplies Officer, whose address is shown on the supplies order form in Facet Talk. It is also available as a digital download on the AFLACA website.
- 3. This competition is conducted in three Divisions NOVICE, INTERMEDIATE & OPEN: NOVICE DIVISION entrants should carefully read Rule B4.2 on page 6 of the Manual. INTERMEDIATE DIVISION entrants should carefully read Rule B4.3 on page 7 of the Manual. OPEN DIVISION entrants should carefully read Rule B4.4 on page 7 of the Manual & SPECIAL CONDITIONS below.
- 4. Section numbers used in this competition reflect the numbers in the AFLACA Manual; e.g. In Section N.8A.1, N = Novice Division, 8A is Standard Round Brilliant with Continuous Girdle, as defined on page 44 of the Manual, 1 means the first section in Novice Division.
- 5. Competitors are permitted only one entry in each Section for which they are eligible. Competitors may enter one or more Sections up to the maximum allowed for their Division (Novice, Intermediate or Open)

6. There are NO ENTRY OR RETURN POSTAGE FEES for this competition.

- 7. The Competition Committee reserves the right to change the competition Division or Section of entries where it is deemed appropriate under the rules governing this competition. Competitors are urged to consult the AFLACA Manual and this Schedule before completing the official Entry Form in this Schedule.
- 8. Boxes containing entries must be clearly marked with the Section number in this Schedule, and with the name and colour of the gem material. The abbreviation MM is acceptable for man-made synthetic material. The entrant's name must NOT appear on the box, but MUST be enclosed separately for identification purposes.
- 9. Competitors are totally responsible for postage & insurance for their entries. (See clause 6.) All entries to be return posted will be by registered post. Overseas entrants should note: (1) Packages should be labelled "Lapidary Competition Entries to be returned to sender", with no reference to gemstones. (2) To minimize possible difficulties with Australian Customs, it is recommended that a copy of the competition entry form be included with the stones and only nominal value be placed on the customs declaration form which must be fixed to the package.
- 10. Where **Coloured** material is specified, it must be **obviously coloured in the cut stone**. Colour variations are not to be too wide from indicated colour. Clear means to see through, colourless means no colour.
- 11. The **minimum size** in all Sections is **7.0mm** on shortest axis of plan view when viewed from above. Stones up to and including 0.1mm below minimum size, as measured by the Judge, will be eligible. Stones which are more than 0.1mm below minimum size will be ineligible.
- 12. Entries, with official Entry Form must be received no later than 1/05/2023 to Competition Co-ordinater at P.O. Box 2154 McLaren Vale South Australia Australia. We recommend Australian entries be mailed no later than 15/04/2023. ALL inquires must only be made via the official e-mail: annualcomp@facetorsguild.com.au We recommend Overseas entries be mailed no later than 7/04/23 Entrants wanting confirmation of receipt of entries MUST enclose a stamped, self-addressed envelope with entries, or nominate an e-mail address on the entry form.
- 13. All entries will be displayed and results announced at the AFG Annual Seminar held in September 2023.
- 14. Judging sheets may be collected at noon on the Saturday of the Seminar.
- 15. Entries and medallions will be available for collection from 2.00pm on the Sunday of the Seminar. Entries and awards not being collected at the Seminar will be mailed to entrants by 31/10/2023.

SPECIAL CONDITIONS:

- A. All chosen designs have either been previously used in competitions or are known to have been successfully cut using instructions given. Please note the following:
- B. Angles are not judged and competitors may vary those supplied in this Schedule **PROVIDED** this does not change meet points or facet index. Entrants may vary cutting sequence if desired.
- C. All designs must be cut according to the diagram, i.e. the facet position, basic shape, direction of any spiral effect and meet points must conform to the diagram. However facet sizes may be altered slightly if necessary to achieve meet points.
- D. Girdle Thickness: A Girdle which, at its narrowest point, is more than a maximum of 5% of the total height of the stone from the Culet to the Table/Apex, as measured by the Judge with a Graticule Loupe, will lose all points for this feature. A tolerance of + 0.1mm will be allowed before points are deducted.
- E. Specified Size: For every 0.1mm or part thereof away from Specified Size, as measured across the shortest axis of outline shape. 1 point will be deducted from the maximum for this feature. However, a total tolerance of up to and including 0.1mm above or below Specified Size, as measured by the Judge, will be allowed before any points deduction.
- F. Minimum & Maximum Size: Shall be as indicated on the Schedule on page 6 and on all diagrams
- G. Entrants should only enter in the Division and Sections they are eligible for; Novice, Intermediate or Open. If an entrant has never won a First place in a Level 3 or 4 Competition they should start off in Novice and progress through as they gain experience to the higher Divisions when a First place is attained.

AWARD SECTIONS & CONDITIONS:

- Open Champion Quality Gem Rough Award Voucher for Gem Rough to the value of \$150 donated by a. Glenn Huntley of Quality Gem Rough. Entrant with the highest aggregate points score in Open Sections 1, 2, 3, 4.
- b. Intermediate Champion B R Gemstones Award Voucher for Gem Rough to the value of \$150 donated by Brian and Robyn Pepperrall of BR Gemstones. Entrant with highest aggregate points score in Intermediate Sections 1, 2, 3, 4 and 5
- c. Novice Champion Facetor Gemcuts. Voucher for Gem Rough to the value of \$100 donated by Brian and Liz Boyle of Gemcuts. Entrant with the highest aggregate points score for the best entries in Novice sections 1, 2, 3 4 and 5.

- d. Champion State Peter Collins Trophy (No Keeper): Aggregate of 2 Highest scores per State/Territory in each of Novice, Intermediate & Open Divisions, with a minimum of 3 entrants from a State or Territory contributing to the aggregate. AFG Sponsored
- e. Highest Scoring Entry Gold Medallion: Highest scoring entry in any Section or Division.

The selection/presentation of the above awards is subject to the approval being obtained/given by each donor prior to the competition.

AWARD CONDITIONS:

- Gold, Silver and Bronze medallions will be awarded to the First, Second and Third place getter in each section.
- Minimum Score for Placings apply: 70% Novice, 80% Intermediate, 90% Open.
- Should there be no stone that reaches the minimum set competition standard, the Competition Committee may declare no award be made.
- Novice or Intermediate Sections. Where a small number of entries are received in Novice or Intermediate Sections (even if only one entry), and if the standard of entry is high enough, a "SPECIAL AWARD" card will be awarded.

It is stressed that such SPECIAL AWARD is NOT REGARDED AS A FIRST PLACE, and thus does not affect the entrant's eligibility to enter the same Section in the future.

- **Open Sections:** Where a small number of entries are received in Open Sections (even if only one entry), and if the standard is high enough, the Competition Committee has discretion to award First Place. However, a SOLE winning entry under these conditions is still eligible for re-entry at the same Level, and endorsement to this effect MUST be Included on judging sheets and results sent to AFLACA Competition Results Recorder.
- Subject to the above, in the event of two or more entries gaining equal points in any of the first 3 places in a Section the following will apply:

If there are 3 or more equal 1sts - all 1sts receive awards and no 2nd or 3rd is awarded. If there are 2 equal 1sts – two 1sts receive awards, then only a 3rd is awarded (could be equal 3rds). If there is a 1st and 2 or more equal 2nd's – 1st and 2nd receive awards and no 3rd is awarded. If there is a 1st, 2nd and 2 or more equal 3rds – 1st and 2nd receive awards and all 3rds receive awards.

2023 AUSTRALIAN FACETORS' GUILD ANNUAL FACETING COMPETITION SCHEDULE

NOTE: this schedule includes diagrams of all cuts nominated in the Sections below

NOVICE	INTERMEDIATE	OPEN
Section N.8B.1 STANDARD BRILLIANT FACETED	Section I.8A.1 STANDARD BRILLIANT CONTINUOUS	Section 0.10.1 BRILLIANCE
GIRDLE	GIRDLE	MATERIAL: Any Coloured Synthetic Corundum
MATERIAL: Colourless Topaz	MATERIAL: Any Coloured Quartz	Minimum Size 7.0 mm across shortest axis of plan
Minimum Size 7.0 mm across shortest axis of plan view	Minimum Size 7.0 mm across shortest axis of plan view	view
Section N.9B.2 STANDARD SQUARE STEP CUT WITH	Section I.9A.2 OBLONG STEP CUT WITH	Section 0.10.2 MODIFIED ALTERNATOR CUT
CUT CORNERS	CUT CORNERS	MATERIAL: Any Light Coloured Cubic Zirconia
MATERIAL: Light Natural Smoky Quartz	MATERIAL: Light Coloured Amethyst	Minimum Size 7.0 mm across shortest axis of plan
Minimum Size 7.0 mm across shortest axis of plan view	Minimum Size 7.0 mm across shortest axis of plan view	view
Section N.10.3 SIX FOUR CUT	Section I.10.3 MIXED CUT	Section 0.10.3 ROYAL GEM
MATERIAL: Any Coloured Topaz	MATERIAL: Light Blue Synthetic Corundum	MATERIAL: Any Coloured Topaz
Minimum Size 7.0 mm across shortest axis of plan view	Minimum Size 7.0 mm across shortest axis of plan view	Minimum Size 7.0 mm across shortest axis of plan view
Section N.10.4 OCTAGONAL BRILLIANT	Section I.10.4 1.20 HEX OVAL.	Section 0.11.4 CUBE ILLUSION
MATERIAL: Colourless Quartz.	MATERIAL: Any Coloured Topaz	MATERIAL: Any Coloured Synthetic Corundum
Minimum Size 7.0 mm across shortest axis of plan view	Minimum Size 7.0 mm across shortest axis of plan view	Minimum Size 7.0 mm across shortest axis of plan view
Section N.11.5 APHEX	Section I.11.5 MOONGLOW	
MATERIAL: Colourless Cubic Zirconia	MATERIAL: Coloured Synthetic Corundum	
Minimum size 7.0mm across shortest axis of plan view	Minimum Size 7.0 mm across shortest axis of plan view	

Minimum size for all Section is 7.0mm across the shortest axis of the plan view. All Girdles are to be Maximum 5% of total height +0.1 mm.

Full size copies of this Schedule, complete with diagrams of all cuts, are available from the AFG Website: www.facetorsguild.com.au

2023 AFG ANNUAL FACETING COMPETITION

ENTRY FORM

(PLEASE PRINT CLEARLY)

NAME Miss, Mrs., Ms., Mr			
ADDRESS			
STATE	COUNTRY	POSTCODE	PHONE
E-mail Address			

NOVICE		INTERMEDIATE		OPEN	
	Material & Colour		Material & Colour		Material & Colour
Section N.8B.1		Section I.8A.1		Section 0.10.1	
Section N.9B.2		Section I.9A.2		Section O.10.2	
Section N.10.3		Section I.10.3		Section O.10.3	
Section N.10.4		Section I.10.4		Section 0.11.4	
Section N.11.5		Section I.11.5			

Notes for Entrants:

- 1. Decide which Section/s you are going to enter.
- 2. Write Name of Material & Colour in appropriate space for each Section entered.
- 3. Fill in the section below and send this form with your Entries to:

Competition Committee: P.O. Box 2154, McLaren Vale, South Australia, Australia, 5171.

To arrive not later than 1st May 2023

My entries will be collected at the Seminar.

My entries are to be returned to the address above.

I declare that my entries are all my own work, and have not previously won a first prize in any competition at the same Level or Division.

Official Use Only:		
Entry Form & Entries Received:	Entries Checked	
1 2 3 4 5 6 7 8 9 10	111213	14

2023 AUSTRALIAN FACETORS' GUILD ANNUAL COMPETITION SECTION N.8B.1 STANDARD ROUND BRILLIANT FACETED GIRDLE Material – Colourless Topaz Minimum Size: 7.0mm across shortest axis of plan view 73 Facets: 57 + 16; Meets: 57 (25 Pavilion + 32 Crown)









STANDARD ROUND BRILLIANT WITH FACETED GIRDLE

Angles for R.I. = 1.610 57 + 16 girdles = 73 facets 8-fold radial symmetry 96 index L/W = 1.000 T/W = 0.535 U/W = 0.535 P/W = 0.450 C/W = 0.188 Vol./W = 0.217

PAVILION

P1	44.00°	03-09-15-21-27-33-39-45-	Cut to TCP
		51-57-63-69-75-81-87-93	
G1	90.00°	03-09-15-21-27-33-39-45-	Set size
		51-57-63-69-75-81-87-93	
P2	42.00°	96-12-24-36-48-60-72-84	Meet P1, P1 at girdle, PCP
CR	OWN		
C1	44.00°	03-09-15-21-27-33-39-45-	Set girdle width
		51-57-63-69-75-81-87-93	
C2	39.00°	96-12-24-36-48-60-72-84	Meet, C1, C1 at girdle
C3	23.00°	06-18-30-42-54-66-78-90	Meet C1, C1, C2, C2
ТΟ.	00°	Table Meet	

2023 AUSTRALIAN FACETORS' GUILD ANNUAL COMPETITION SECTION N.9B.2 STANDARD SQUARE STEP CUT WITH CUT CORNERS Material – Light Smoky Quartz Minimum Size: 7.0mm across shortest axis of plan view 53 Facets: 45 + 8; Meets: 45 (21 Pavilion + 24 Crown)









STANDARD SQUARE STEP CUT WITH CUT CORNERS

Angles for R.I. = 1.540 Designer Unknown 45 + 8 girdles = 53 facets 4-fold radial symmetry 96 index L/W = 1.000 T/W = 0.553 U/W = 0.553 P/W = 0.505 C/W = 0.155 Vol./W³ = 0.312

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
G1	90.00°	96-24-48-72	Size stone, form girdle line
P4	44.00°	12-36-60-84	Meet P1, P2
P5	49.00°	12-36-60-84	Level girdle, meet P2, P3, G
G2	90.00°	12-36-60-84	Level Girdle, meet P3, P4, G
CR	OWN		
C1	50.00° 9	96-24-48-72	Set girdle thickness
C2	50.00° 1	2-36-60-84	Level, meet C1, G
C3	40.00° 9	6-24-48-72	Cut to estimate
C4	40.00° 1	2-36-60-84	Level, Meet C1, C2, C3
C5	25.00° 9	6-24-48-72	Cut to estimate
C6	25.00° 1	2-36-60-84	Level, meet C3, C4, C5
Т	0.00° Ta	ble	Cut to estimate, meet C5, C6

SECTION N.10.3 SIX FOUR CUT

Material: Any Coloured Topaz Minimum size: 7.0mm across shortest axis of plan view 27 Facets: 21 + 6; Meets 19 (9 Pavilion, 10 Crown)









SIX FOUR CUT

William G Movious Angles for R.I. = 1.61021 + 6 girdles = 27 facets 2-fold, mirror-image symmetry 96 index L/W = 1.155 T/W = 0.757 U/W = 0.757P/W = 0.452 C/W = 0.271Vol./W³ = 0.323

PAVILION

P1 47.00°	96-16-32-48-64-80
G1 90.00°	96-16-32-48-64-80
P2 39.00°	12-36-60-84

Cut to Temporary Centre Point Establish stone size and level girdle P1, G. Create Permanent Centre Point

C1	65.80°	96-48	Establish girdle thickness
C2	57.50°	16-32-64-80	Level Girdle
C3	43.00°	12-36-60-84	Meet C1, C2, G
Т	0.00°	Table	Cut to meet C1, C3, C3 and C3, C2, C3, C3

SECTION N.10.4 OCTAGONAL BRILLIANT

Material: Colourless Quartz

Minimum size: 7.0mm across shortest axis of plan view

49 Facets: 41 + 8; 19 Meets 33 (9 Pavilion, 24 Crown)









OCTAGONAL BILLIANT Designed by John Wren, Mt Waverley, Australia GCS/GemCad by C van der Pennen Angles for R.I. = 1.540 41 + 8 girdles = 49 facets 8-fold radial symmetry 96 Index L/W = 1.000 T/W = 0.574 U/W = 0.574 P/W = 0.427 C/W = 0.138 Vol./W³ = 0.188

PAVILION

P1 40.50°	96-12-24-36-48-60-72-84
G1 90.00°	06-18-30-42-54-66-78-90
P2 46.50°	06-18-30-42-54-66-78-90

Cut to Permanent Centre Point Establish stone size & level girdle Cut to meet Girdle

C1	50.20°	06-18-30-42-54-66-78-90	Establish girdle thickness & level
C2	33.00°	96-12-24-36-48-60-72-84	Meet C1, G1
C3	20.20°	06-18-30-42-54-66-78-90	Meet C1, C2
т	0.00°	Table	

2023 AUSTRALIAN FACETORS' GUILD ANNUAL COMPETITION SECTION N.11.5 APHEX Material – Colourless Synthetic Cubic Zirconia

Minimum Size: 7.0mm across shortest axis of plan view

36 Facets: 30 + 6; Meets: 20 (7 Pavilion + 13 Crown)









APHEX By Jeff Ford Angles for R.I. = 2.160 30 + 6 girdles = 36 facets 6-fold radial symmetry 96 index L/W = 1.155 P/W = 0.502 C/W = 0.227 Vol./W³ = 0.268

PAVILION

P1	49.00°	96-16-32-48-64-80
G1	90.00°	96-16-32-48-64-80
P2	41.00°	08-24-40-56-72-88

CROWN

C1	38.00°	96-16-32-48-64-80
C2	28.00°	08-24-40-56-72-88
C3	10.00°	08-24-40-56-72-88

Cut to TCP Set size Form PCP, Meet P1, G

Set girdle thickness Meet C1, G Meet C1, C2, form Apex 2023 AUSTRALIAN FACETORS' GUILD ANNUAL COMPETITION SECTION I.8A.1 STANDARD ROUND BRILLIANT CONTINUOUS GIRDLE Material – Any Coloured Quartz Minimum Size: 7.0mm across shortest axis of plan view 58 Facets: 57 + 1; Meets: 41 (17 Pavilion + 24 Crown)









STANDARD BRILLIANT CONTINUOUS GIRDLE

Angles for R.I. = 1.540 57 + 1 = 58 facets 8-fold radial symmetry 96 index L/W = 1.000 T/W = 0.535 U/W = 0.535 P/W = 0.450 C/W = 0.188 Vol./W³ = 0.217

PAVILION

P1	43.00°	03-09-15-21- 27-33-39-45-	Cut to TCP
		51-57-63-69-5-81-87-93	
G1	90.00°	Continuous girdle	Size Stone
P2	41.00°	96-12-24-36-48-60-72-84	Cut to meet P1, G. Form PCP.
CR	OWN		
C1	42.00°	03-09-15-21-27- 33-39-45-	Set girdle width
		51-57-63-69-75-81-87-93	
C2	35.00°	96-12-24-36-48-60-72-84	Meet C1, G
C3	19.00°	06-18-30-42-54-66-78-90	Meet C1, C2
Т	0.00°	Table	Meet C2, C3

2023 AUSTRALIAN FACETORS' GUILD ANNUAL COMPETITION SECTION I.9A.2 OBLONG STEP CUT WITH CUT CORNERS Material – Light Amethyst Minimum Size: 7.0mm across shortest axis of plan view 53 Facets: 45 + 8; Meets: 44 (20 Pavilion + 24 Crown)









OBLONG STEP CUT WITH CUT CORNERS

Angles for R.I. = 1.540 45 + 8 girdles = 53 facets 2-fold radial symmetry 96 index L/W = 1.500 T/W = 1.114 U/W = 0.614 H/W = 0.791 Vol./W³ = 0.663

PAVILION

P1	59.56°	96-48	Set width
P2	63.00°	24-72	Set length
G1	90.00°	24-72	Form level girdle
G2	90.00°	96-48	Form level girdle
P3	49.00°	96-48	Size by eye
P4	53.00°	24-72	Meet P1, P2 & P3
P5	38.95°	96-48	Size by eye
P6	43.00°	24-72	Meet P3, P4 & P5
P7	53.00°	12-36-60-84	Meet P3, P4, P5, P6
P8	63.00°	12-36-60-84	Meet P1, P3, P7
G3	90.00°	12-36-60-84	Cut to level girdle

C1	55.00°	96-48	Set girdle width
C2	55.00°	24-72	Level girdle
C3	55.00°	12-36-60-84	Level girdle
C4	42.00°	96-48	Size by eye
C5	42.00°	12-36-60-84	Meet C1, C3, C4
C6	42.00°	24-72	Meet C2, C3, C5
C7	26.00°	96-48	Size by eye
C8	26.00°	12-36-60-84	Meet C4, C5, C7
C9	26.00°	24-72	Meet C5, C6, C8
Т	0.00°	Table	Size by eye

SECTION I.10.3 MIXED CUT

Material: Light Blue Man Made Corundum Minimum size: 7.0mm across shortest axis of plan view 81 Facets: 69 + 12; 57 Meets (33 Pavilion, 24 Crown)









MIXED CUT by George Beard from Facet Talk 115, p32 Computer work by Rick Parker for A.F.G. Angles for R.I. = 1.760 69 + 12 girdles = 81 facets 12-fold, mirror-image symmetry 96 index L/W = 1.000 T/W = 0.572 U/W = 0.572 P/W = 0.574 C/W = 0.167 Vol./W³ = 0.289

PAVILION

P1	42.00° 0	4-12-20-28-36-44-	PCP
		52-60-68-76-84-92	
G s	90.00°	04-12-20-28-36-44-	Set stone size
		52-60-68-76-84-92	
P2	56.00°	04-12-20-28-36-44- 52-60-68-76-84-92	Leave a bit over half P1 looking from culet
P3	49.00°	96-24-48-72	Meet P1 P2
P4	66.00°	04-12-20-28-36-44-	Meet P2 P3
		52-60-68-76-84-92	

CROWN

C1	51.00° 04-12-20-28-36-44-		Set girdle width
		52-60-68-76-84-92	
C2	38.00°	96-24-48-72	Meet C1 G
C3	23.00°	04-12-20-28-36-44-	Meet C1 C2
		52-60-68-76-84-92	
Т (0.00°	Table	Meet C2 C3

Some of this stone is cut 'by eye' using estimations rather than a meet point sequence.

SECTION I.10.4 1.20 Hex Oval Material: Any Coloured Topaz Minimum size: 7.0mm across shortest axis of plan view 55 Facets: 43 + 12; 43 Meets (19 Pavilion, 24 Crown)









1.20 HEX OVAL

by Ian Baxter Angles for R.I. = 1.610 43 + 12 girdles = 55 facets 2-fold radial symmetry 96 index L/W = 1.200 T/W = 0.627 U/W = 0.524 P/W = 0.454 C/W = 0.161 Vol./W³ = 0.265

PAVILION			CROWN		
P1 39.29°	19-29-67-77	Cut to TCP	C1 44.37°	03-45-51-93	Set girdle width
P2 41.60°	10-38-58-86	Meet at TCP	C2 47.81°	10-38-58-86	Level girdle
P3 43.48°	03-45-51-93	Meet at TCP	C3 47.45°	19-29-67-77	Level girdle
G1 90.00°	19-29-67-77	Set size	C4 34.00°	96-48	Meet C1 at girdle
G2 90.00°	10-38-58-86	Level Girdle	C5 34.00°	15-33-63-81	Meet C2, C3 at girdle
G3 90.00°	03-45-51-93	Level Girdle	C6 15.00°	06-42-54-90	Meet C1, C2, C3, C4
P4 39.00°	13-35-61-83	Meet P1, P2 at girdle	C7 15.87°	24-72	Meet C3, C5
P5 42.21°	96-48	Meet P3, G and PCP	T 0.00°		Table

Cutting Notes: The girdle outline is formed by cutting steps 1-2-3 to a temporary centre point. Establish size while cutting Step 4, or if preferred step 6 of facets. Level girdle to finish the preform. Cut in steps 7 and 8 to complete the pavilion.

Design notes: the 1.20 - Hex Oval is a brilliant design. GemRay records an ISO output of 86.5% with the RI set at 1.76. The low overall height takes advantage of shallow rough and will assist where a shorter light path is beneficial. The given angles a suitable for material RIs from 1.62 to 2.16 & greater. The pavilion angles can be increased by 1%

2023 AUSTRALIAN FACETORS' GUILD LIMITED ANNUAL FACETING COMPETITION Section I.11.5 Moonglow Material – Coloured Synthetic Corundum Minimum Size: 7.0mm across shortest axis of plan view

88 Facets: 80 + 8; Meets: 50 (25 Pavilion, 25 Crown)





C 15.00°



MOONGLOW

by Henry Larson Angles for R.I. = 1.760 80 + 8 girdles = 88 facets 8-fold, mirror-image symmetry 96 index L/W = 1.000P/W = 0.438 C/W = 0.201 Vol. /W³ = 0.230

P/	PAVILION				
1	55.00°	96-12-24-36-48-60-72-84	Cut to TCP		
2	90.00°	96-12-24-36-48-60-72-84	Set size		
3	41.00°	03-09-15-21-27-33-39-45-	Meet 1, 2		
		51-57-63-69-75-81-87-93			
4	40.00°	04-08-16-20-28-32-40-44-	Meet 1, 2, 3		
		52-56-64-68-76-80-88-92			
5	39.00°	06-18-30-42-54-66-78-90	For PCP, meet 1, 2, 3, 4		
CF	ROWN				
A	43.00°	96-12-24-36-48-60-72-84	Set girdle thickness		
В	34.00°	03-09-15-21-27-33-39-45-	Meet 2, A		
		51-57-63-69-75-81-87-93			

SECTION 0.10.1 BRILLIANCE

Material: Any Coloured Synthetic Corundum Minimum size: 7.0mm across shortest axis of plan view 113 Facets: 97 + 16; 81 Meets (33 Pavilion, 48 Crown)









BRILLIANCE lan Baxter Angles for R.I. = 1.760 97 + 16 girdles = 113 facets 16-fold radial symmetry 96 index L/W = 1.000 T/W = 0.606 U/W = 0.606 P/W = 0.474 C/W = 0.147 Vol./W³ = 0.238

PAVILION

G1	90.00°	96-06-12-18-24-30-36-42-	Size
		48-54-60-66-72-78-84-90	
P1	42.00°	03-09-15-21-27-33-39-45-	Cut
		51-57-63-69-75-81-87-93	
P2	67.00°	96-06-12-18-24-30-36-42-	Loca
		48-54-60-66-72-78-84-90	
P3	40.50°	96-06-12-18-24-30-36-42-	P2, I
		48-54-60-66-72-78-84-90	
CR	OWN		
C1	43.50°	96-06-12-18-24-30-36-42-	Set g
		48-54-60-66-72-78-84-90	
C2	33.50°	96-06-12-18-24-30-36-42-	Cut
		48-54-60-66-72-78-84-90	
C3	23.50°	96-06-12-18-24-30-36-42-	Cut
		48-54-60-66-72-78-84-90	
Т	0.00°	Table	Cut

Size stone

Cut to TCP

Locate & level girdle

P2, Form PCP

Set girdle width

Cut to diagram

Cut to diagram

Cut to diagram

2023 AUSTRALIAN FACETORS' GUILD ANNUAL COMPETITION SECTION 0.10.2 Modified Alternator Cut Material: Any Light Coloured Cubic Zirconia Minimum size: 7.0mm across shortest axis of plan view 85 Facets: 77 + 8; 45 Meets (25 Pavilion, 20 Crown)





Cut to TCP Size Stone Cut to girdle

Meet P1 Meet P2





MODIFIED ALTERNATOR CUT Don Olson Angles for R.I. = 2.150 77 + 8 girdles = 85 facets 8-fold radial symmetry 96 index L/W = 1.000 T/W = 0.515 U/W = 0.515 P/W = 0.523 C/W = 0.220 Vol./W³ = 0.298

PAVILION	
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P1	53.00°	96-12-24-36-48-60-72-84
G1	90.00°	96-12-24-36-48-60-72-84
P2	47.00°	02-10-14-22-26-34-38-46-
		50-58-62-70-74-82-86-94
Р3	45.00°	96-12-24-36-48-60-72-84
P4	41.00°	05-07-17-19-29-31-41-43-
		53-55-65-67-77-79-89-91

C1	60.00°	96-12-24-36-48-60-72-84	Set Girdle width
C2	40.00°	06-18-30-42-54-66-78-90	Meet G
C3	30.00°	18-42-66-90	Meet C1
C4	30.00°	96-12-24-36-48-60-72-84	Meet C1, C2, C3
Т	0.00°	Table	Meet C2

2023 AUSTRALIAN FACETORS' GUILD ANNUAL COMPETITION SECTION 0.10.3 Royal Gem Material: Any Coloured Topaz Minimum size: 7.0mm across shortest axis of plan view 44 Facets: 38 + 6; 23 Meets (11 Pavilion, 12 Crown)





PRE-FORM

PF1 43.55° 12-36-60-84 Cut to TCP G1 90.00° 16-32-64-80 Set stone width

PAVILION

P1	45.20°	12-84	Meet at TCP, Cut
D2	13 53°	96	Moot at TCP
	40.00	30	Moot at TCP
FJ FJ	40.19	24-12	
Ρ4	38.65°	48	Meet at TCP
G2	90.00°	96	Meet P1. P2, G1
G3	90.00°	48	Meet G1, P4, P1
P5	65.25°	16-80	Meet P1, P2, G2,
			level girdle
P5	65.25°	32-64	Level girdle
P6	41.22°	18-78	Meet P1, P3, P5,
P7	40.05°	32-64	Meet P1, P3, P5,
			form PCP
P8	40.67°	05-91	Meet P1, P2, P5,
			girdle, PCP
P9	36.86°	45-51	Meet P1, P4, P5,
			airdle, PCP





Royal Gem by Wilf Ross Gemcad and sequence by Henk Prins. Angles for R.I. = 1.61038 + 6 girdles = 44 facets 2-fold, mirror-image symmetry 96 index L/W = 1.200 T/W = 0.787 U/W = 0.568P/W = 0.497 C/W = 0.165(G2 G3)/W = 1.200Vol. /W³ = 0.269(G2 G3)/W = 1.200Vol./W³ = 0.269

А	47.92°	96	Set girdle width
В	65.00°	16-32-64-80	Level girdle
С	45.60°	48	Level girdle
D	32.16°	05-91	Meet A, B at girdle
Е	37.28°	24-72	Meet B, B at girdle
F	39.29°	40-56	Meet B, C at girdle
G	29.50°	16-32-64-80	Meet C, F
Н	25.09°	96	Meet A, D
Т	0.00°		Table

2023 AUSTRALIAN FACETORS' GUILD ANNUAL COMPETITION SECTION 0.11.4 Cube Illusion Material: Any Coloured Corundum Minimum size: 7.0mm across shortest axis of plan view 51 Facets: 39 + 12; 41 Meets 41 (15 Pavilion, 26 Crown)









Cube Illusion Triangle by Robert W. Strickland 1995 Angles for R.I. = 1.760 39 + 12 girdles = 51 facets 3-fold, mirror-image symmetry 96 index L/W = 1.003 P/W = 0.412 C/W = 0.164 Vol./W³ = 0.169

PAVILION

1	44.37°	16-48-80	Cut PCP	
2	45.37°	14-18-46-50-78-82	Estimate depth, meet 1-2	
3	43.36°	10-22-42-54-74-86	Meet 1-2-3	
G1	90.00°	14-18-46-50-78-82	Meet G1-1-2	
G2	90.00°	10-22-42-54-74-86	Meet G1-2-3	
CROWN				
А	41.36°	14-18-46-50-78-82	Set girdle thickness	
В	34.04°	10-22-42-54-74-86	Level girdle	
С	33.97°	16-48-80 Meet	G1-A	
D	24.16°	11-21-43-53-75-85	Meet A-C	
Е	8.41°	16-48-80	Meet C-D, form PCP	