

A COLLECTION OF MY BEST  
**GEMSTONE FACETING**  
**DESIGNS**      VOLUME 1

HIGH REFRACTIVE INDEX  
SUPPLEMENT

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# Foreword

If you are reading this you have most likely purchased a copy of my book 'A collection of my best Gemstone Faceting Designs Volume 1'. Thank you for purchasing my book. I hope you are enjoying cutting my designs.

You will notice in my designs book volume 1, the recommend refractive index (RI) ranges have a maximum of 2.16. This was largely due to me only cutting materials with an RI below 2.16 and it does not reflect the true range of RI the designs are suit for.

After receiving questions about the designs and how suitable they would be to cut using higher RI materials I have checked the optimization of each design up to a maximum RI of 2.45. The majority of the designs will work well with no angle changes. The remaining designs I have now optimized to suit a higher RI range.

In the following supplement I have presented each design with: a rendering at  $RI = 2.30$ , new angles where applicable and a new recommend RI range. All renderings are using 10 degrees of head shadow.

I hope you find this supplement helpful and enjoy cutting some of my designs in high RI materials.

If you have any questions, you can contact me at [facetingdesigns@gmail.com](mailto:facetingdesigns@gmail.com).

# Frosted Designs

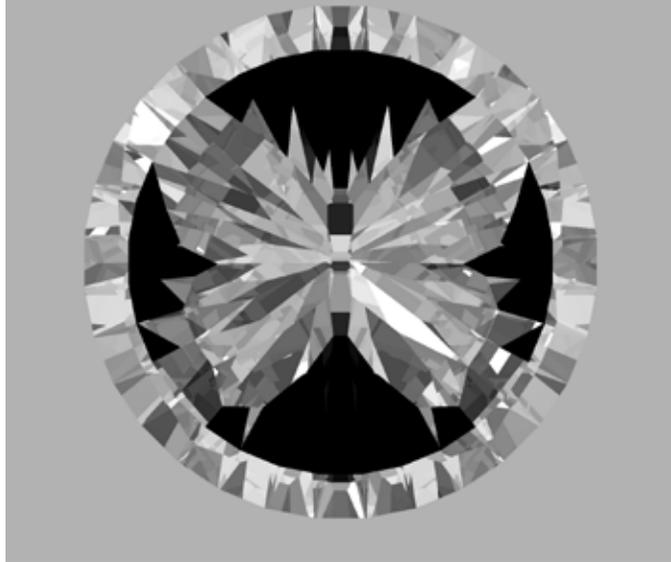
# Butterfly

AIB001

Andrew Brown - May 2019

Design Information	
Pavilion facets	65
Girdle facets	32
Crown facets	32+1
Total facets	130
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.40
L/W = 1.000	T/W = 0.829
U/W = 0.829	P/W = 0.451
C/W = 0.073	V/W <sup>3</sup> = 0.197

RI = 2.30 rendered without frosting



Comment:

Cut with no changes to angles upto RI 2.40

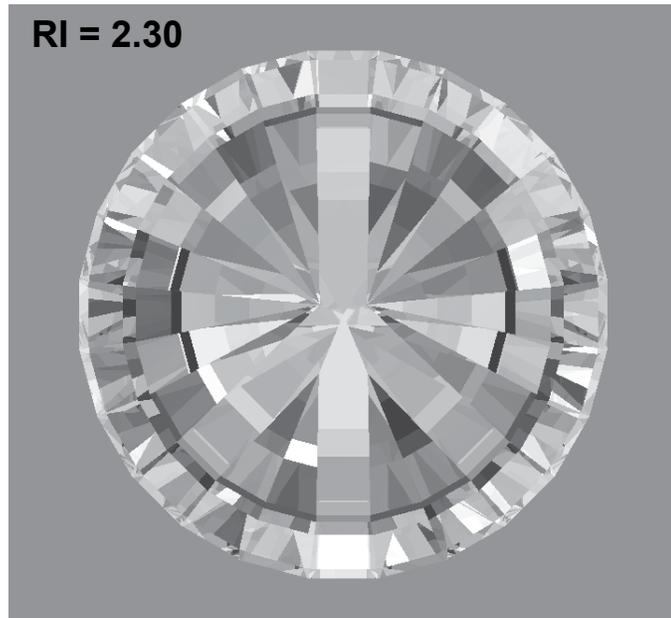
# Peace

AIB002

Andrew Brown - May 2019

Design Information	
Pavilion facets	48
Girdle facets	24
Crown facets	24+1
Total facets	97
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.40
L/W = 1.000	T/W = 0.836
U/W = 0.836	P/W = 0.446
C/W = 0.070	V/W <sup>3</sup> = 0.191

RI = 2.30



Comment:

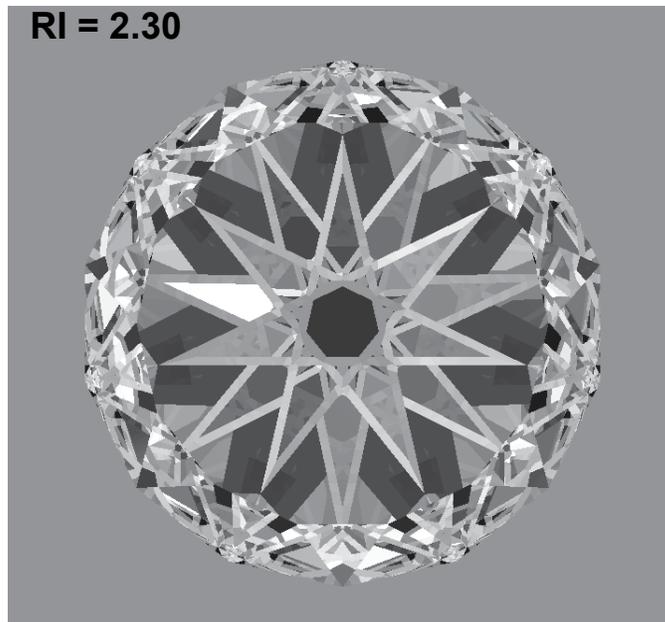
Cut with no changes to angles upto RI 2.40

# Faerie Star

AIB003

Andrew Brown - May 2019

Design Information	
Pavilion facets	71
Girdle facets	14
Crown facets	28+1
Total facets	114
Index gear	84
Symmetry	7-fold mirror image
RI range	1.54 to 2.40
L/W = 1.00	T/W = 0.798
U/W = 0.778	P/W = 0.483
C/W = 0.106	V/W <sup>3</sup> = 0.257



Comment:

Cut with no changes to angles upto RI 2.40

# Elven Star

AIB004

Andrew Brown - May 2019

Design Information	
Pavilion facets	70
Girdle facets	21
Crown facets	21+1
Total facets	113
Index gear	84
Symmetry	7-fold mirror image
RI range	1.54 to 2.40
L/W = 1.003	T/W = 0.760
U/W = 0.753	P/W = 0.517
C/W = 0.072	V/W <sup>3</sup> = 0.208



Comment:

Cut with no changes to angles upto RI 2.40

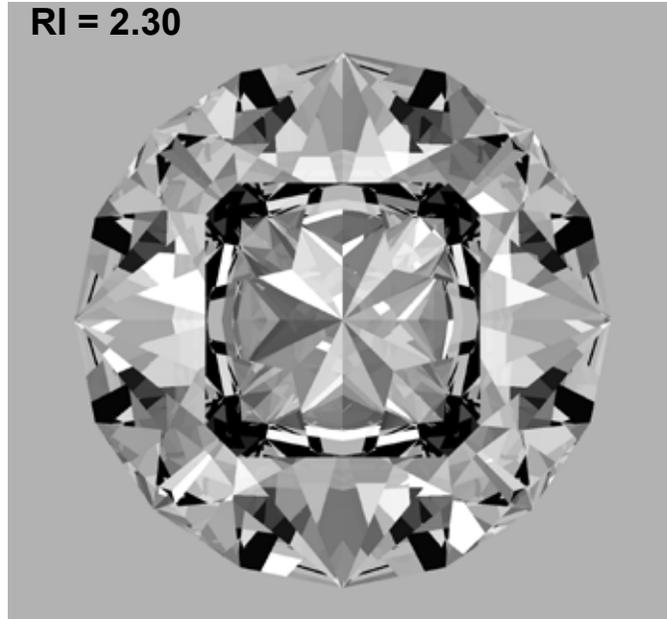
# Round Designs

# Longhorns

AIB005

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	16
Crown facets	32+1
Total facets	73
Index gear	96
Symmetry	4-fold radial
RI range	1.61 to 2.35
L/W = 1.000	T/W = 0.513
U/W = 0.513	P/W = 0.468
C/W = 0.163	V/W <sup>3</sup> = 0.225



**Comment:**

New angles for RI 2.16 to 2.35

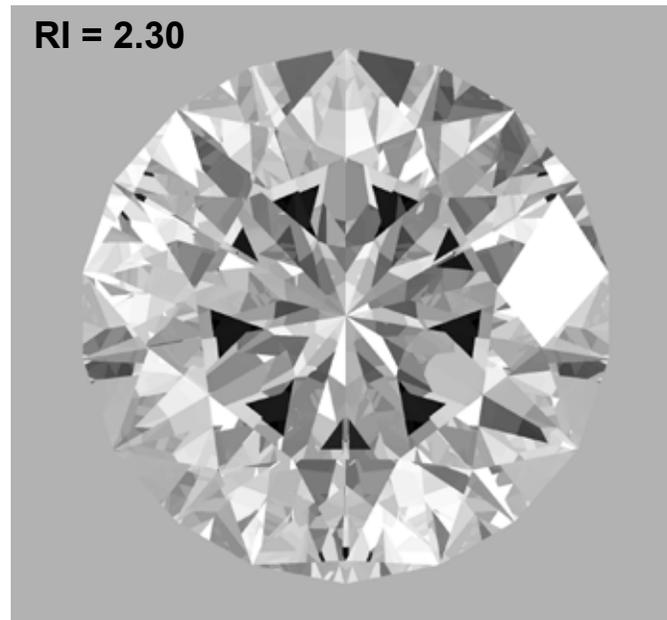
P1	37.19°	C1	42.74°
P2	46.70°	C2	49.00°
P3	36.44°	C3	43.50°
		C4	36.57°
		C5	35.04°

# Tristar Brilliance

AIB006

Andrew Brown - May 2019

Design Information	
Pavilion facets	27
Girdle facets	18
Crown facets	36+1
Total facets	82
Index gear	96
Symmetry	3-fold mirror image
RI range	1.61 to 2.45
L/W = 1.020	T/W = 0.575
U/W = 0.575	P/W = 0.478
C/W = 0.142	V/W <sup>3</sup> = 0.220



**Comment:**

New angles for RI 2.16 to 2.45

Very small change to pavilion angles

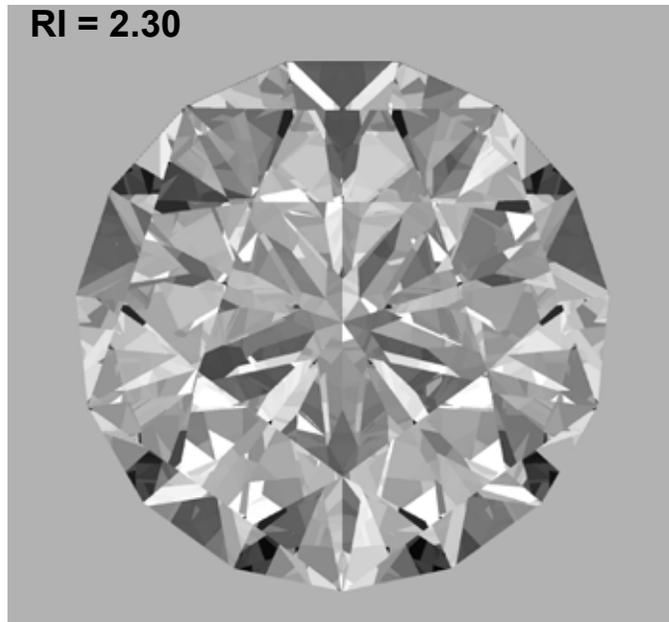
P1	44.47°
P2	43.04°

# Around Oddity

AIB007

Andrew Brown - May 2019

Design Information	
Pavilion facets	20
Girdle facets	15
Crown facets	25+1
Total facets	61
Index gear	120
Symmetry	5-fold mirror image
RI range	1.54 to 2.45
L/W = 1.006	T/W = 0.545
U/W = 0.518	P/W = 0.463
C/W = 0.134	V/W <sup>3</sup> = 0.219



Comment:

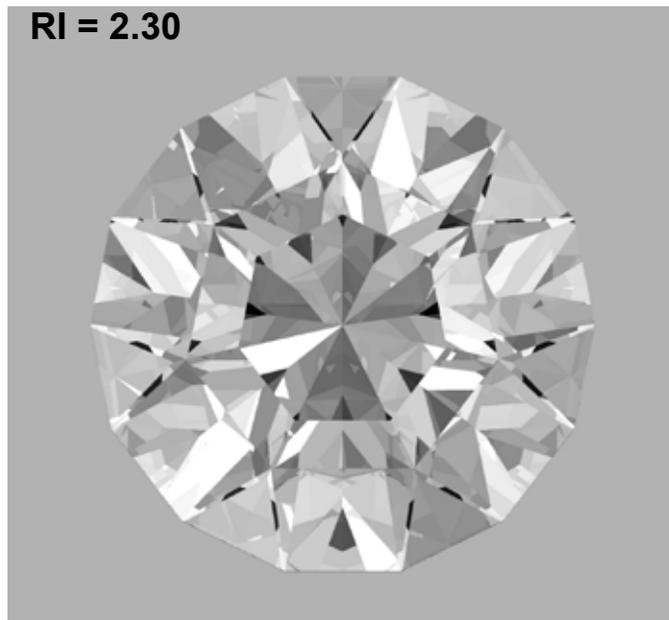
Cut with no changes to angles upto RI 2.45

# Seven Steps

AIB008

Andrew Brown - May 2019

Design Information	
Pavilion facets	14
Girdle facets	14
Crown facets	21+1
Total facets	50
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.020	T/W = 0.421
U/W = 0.453	P/W = 0.453
C/W = 0.143	V/W <sup>3</sup> = 0.212



Comment:

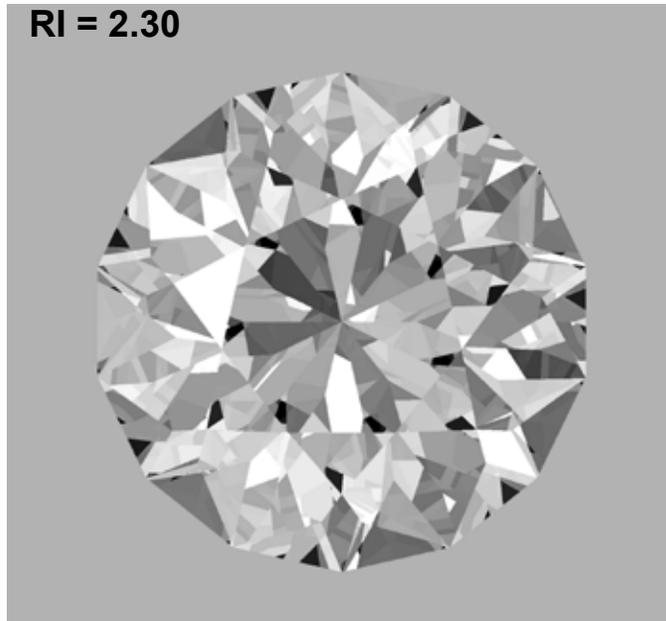
Cut with no changes to angles upto RI 2.45.

# Easy Seven

AIB009

Andrew Brown - May 2019

Design Information	
Pavilion facets	14
Girdle facets	14
Crown facets	35+1
Total facets	64
Index gear	84
Symmetry	7-fold mirror image
RI range	1.54 to 2.45
L/W = 1.026	T/W = 0.492
U/W = 0.479	P/W = 0.466
C/W = 0.160	V/W <sup>3</sup> = 0.227



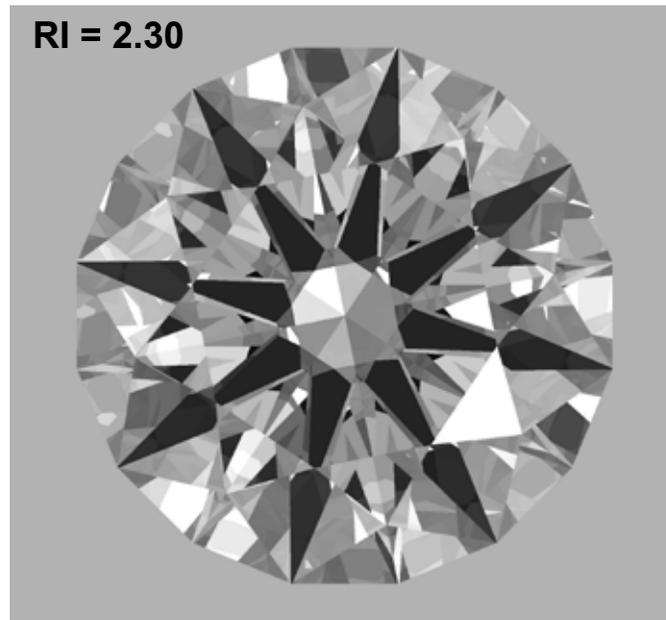
**Comment:**  
Cut with no changes to angles upto RI 2.45.

# Broken Hearts

AIB010

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	16
Crown facets	32+1
Total facets	73
Index gear	96
Symmetry	8-fold radial
RI range	1.65 to 2.45
L/W = 1.000	T/W = 0.569
U/W = 0.569	P/W = 0.445
C/W = 0.177	V/W <sup>3</sup> = 0.229



**Comment:**  
New angles for RI 2.16 to 2.45

P1	42.00°	C1	41.63°
P2	40.80°	C2	34.40°
		C3	22.30°

# Supernova

AIB011

Andrew Brown - May 2019

Design Information	
Pavilion facets	36
Girdle facets	12
Crown facets	54+1
Total facets	103
Index gear	96
Symmetry	3-fold mirror image
RI range	1.61 to 2.40
L/W = 1.000	T/W = 0.586
U/W = 0.555	P/W = 0.571
C/W = 0.150	V/W <sup>3</sup> = 0.282



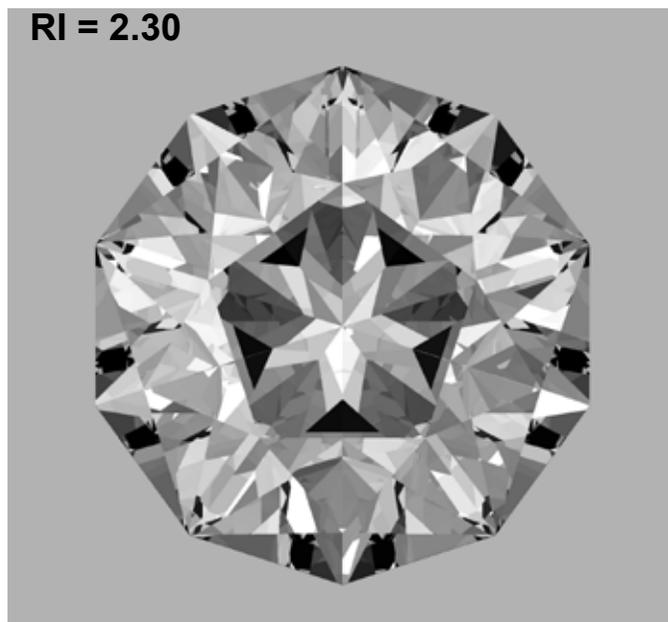
Comment:  
Cut with no changes to angles upto RI 2.40

# Depentastar

AIB012

Andrew Brown - May 2019

Design Information	
Pavilion facets	15
Girdle facets	10
Crown facets	25+1
Total facets	51
Index gear	120
Symmetry	5-fold mirror image
RI range	1.70 to 2.45
L/W = 1.051	T/W = 0.543
U/W = 0.516	P/W = 0.457
C/W = 0.149	V/W <sup>3</sup> = 0.237



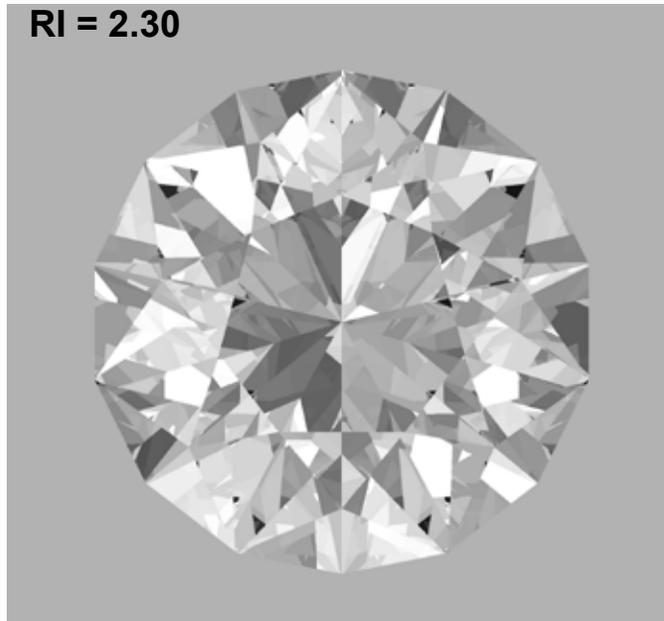
Comment:  
Cut with no changes to angles upto RI 2.45

# Standard Seven 96

AIB013

Andrew Brown - May 2019

Design Information	
Pavilion facets	21
Girdle facets	14
Crown facets	28+1
Total facets	64
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.020	T/W = 0.497
U/W = 0.480	P/W = 0.475
C/W = 0.135	V/W <sup>3</sup> = 0.221



Comment:

Cut with no changes to angles upto RI 2.45

# Warp Speed

AIB014

Andrew Brown - May 2019

Design Information	
Pavilion facets	33
Girdle facets	12
Crown facets	12+1
Total facets	67
Index gear	96
Symmetry	3-fold mirror image
RI range	1.54 to 2.45
L/W = 1.000	T/W = 0.677
U/W = 0.586	P/W = 0.565
C/W = 0.115	V/W <sup>3</sup> = 0.238



Comment:

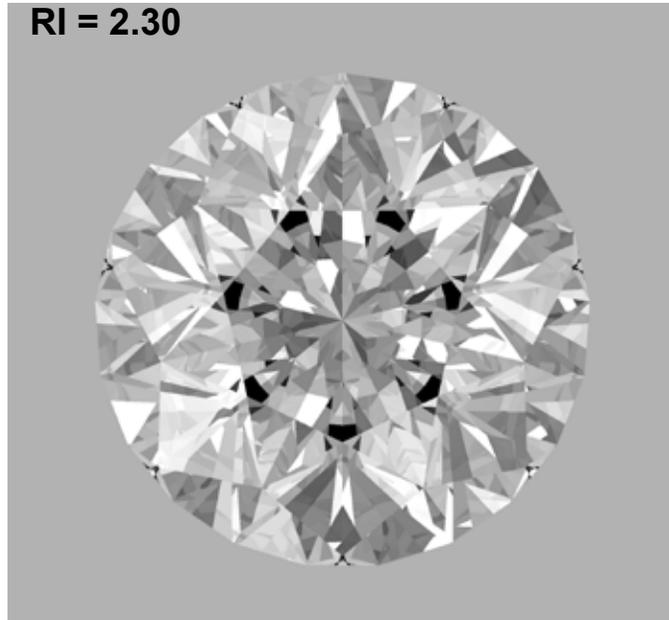
Cut with no changes to angles upto RI 2.45

# Twenty One Seven

AIB015

Andrew Brown - May 2019

Design Information	
Pavilion facets	28
Girdle facets	21
Crown facets	35+1
Total facets	85
Index gear	84
Symmetry	7-fold radial
RI range	1.54 to 2.45
L/W = 1.003	T/W = 0.482
U/W = 0.470	P/W = 0.462
C/W = 0.150	V/W <sup>3</sup> = 0.222



**Comment:**  
Cut with no changes to angles upto RI 2.45

# Trifectancy

AIB016

Andrew Brown - May 2019

Design Information	
Pavilion facets	27
Girdle facets	12
Crown facets	24+1
Total facets	64
Index gear	96
Symmetry	6-fold radial
RI range	1.61 to 2.45
L/W = 1.000	T/W = 0.464
U/W = 0.464	P/W = 0.466
C/W = 0.145	V/W <sup>3</sup> = 0.216



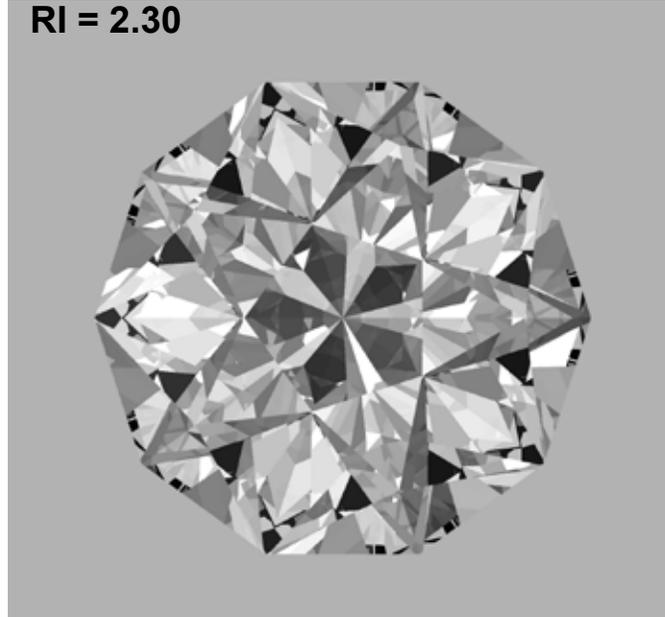
**Comment:**  
Cut with no changes to angles upto RI 2.45

# Decadence

AIB017

Andrew Brown - May 2019

Design Information	
Pavilion facets	20
Girdle facets	10
Crown facets	20+1
Total facets	51
Index gear	120
Symmetry	6-fold radial
RI range	1.54 to 2.45
L/W = 1.051	T/W = 0.396
U/W = 0.0.377	P/W = 0.468
C/W = 0.183	V/W <sup>3</sup> = 0.244



Comment:

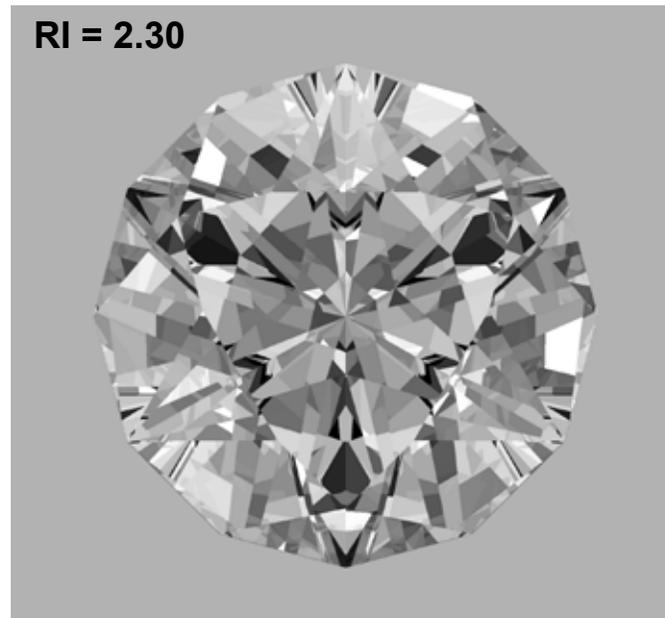
Cut with no changes to angles upto RI 2.45

# Fractal Flow

AIB018

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	12
Crown facets	15+1
Total facets	52
Index gear	96
Symmetry	3-fold radial
RI range	1.54 to 2.35
L/W = 1.000	T/W = 0.667
U/W = 0.627	P/W = 0.541



Comment:

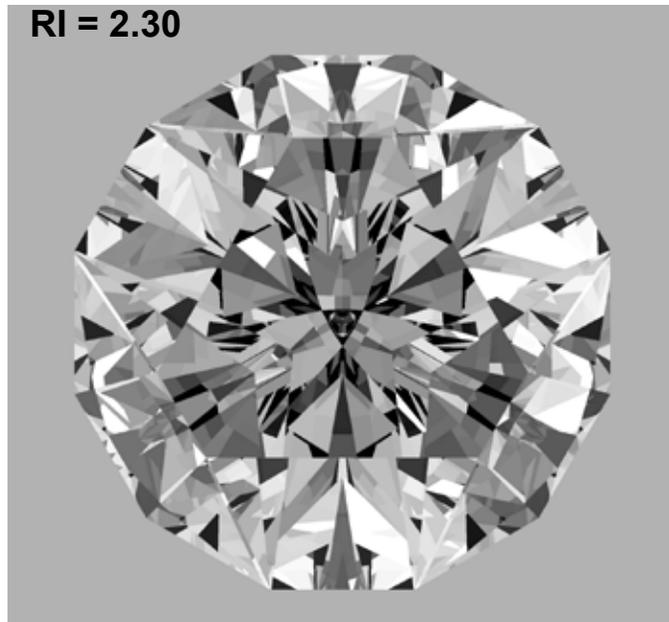
Cut with no changes to angles upto RI 2.35

# Thermal Uplift

AIB019

Andrew Brown - May 2019

Design Information	
Pavilion facets	27
Girdle facets	12
Crown facets	12+1
Total facets	52
Index gear	96
Symmetry	3-fold mirror
RI range	1.54 to 2.45
L/W = 1.000	T/W = 0.691
U/W = 0.599	P/W = 0.474
C/W = 0.108	V/W <sup>3</sup> = 0.226



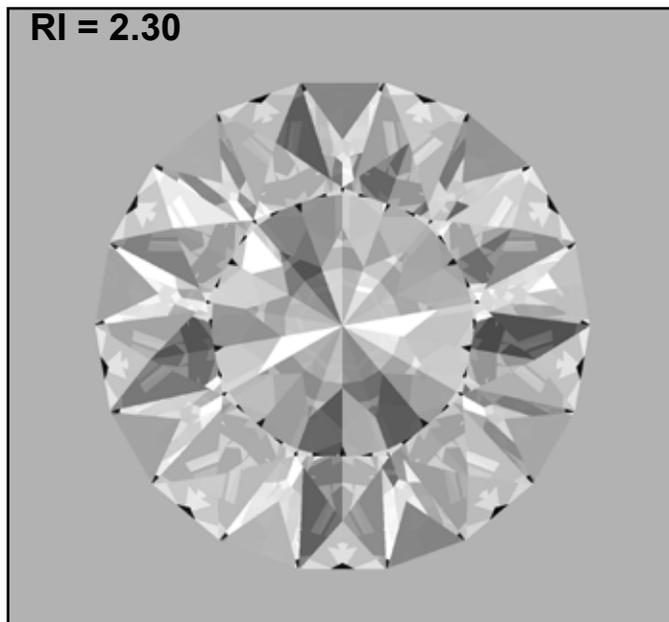
**Comment:**  
Cut with no changes to angles upto RI 2.45

# Simplicity

AIB020

Andrew Brown - May 2019

Design Information	
Pavilion facets	18
Girdle facets	18
Crown facets	27+1
Total facets	64
Index gear	72
Symmetry	9-fold mirror image
RI range	1.54 to 2.35
L/W = 1.015	T/W = 0.560
U/W = 0.551	P/W = 0.491
C/W = 0.121	V/W <sup>3</sup> = 0.217



**Comment:**  
Cut with no changes to angles upto RI 2.35

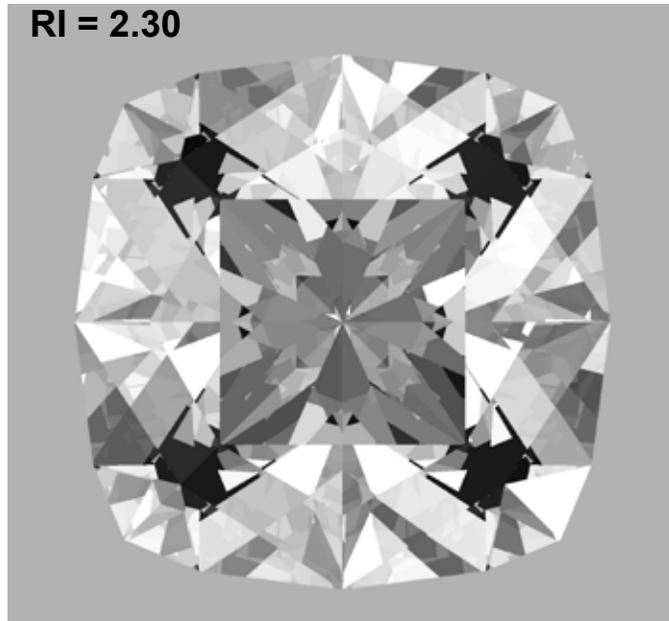
# Square Designs

# Neon Lights

AIB021

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	16
Crown facets	28+1
Total facets	69
Index gear	96
Symmetry	2-fold mirror image
RI range	1.54 to 2.35
L/W = 1.000	T/W = 0.476
U/W = 0.470	P/W = 0.470
C/W = 0.158	V/W <sup>3</sup> = 0.238



RI = 2.30

**Comment:**  
New angles for RI 2.16 to 2.35

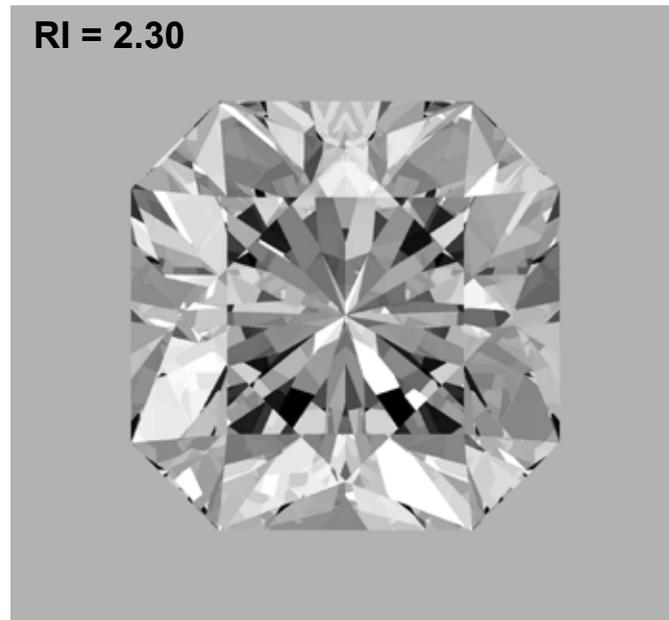
- C1 31.94°
- C2 35.56°
- C3 28.78°
- C4 25.93°

# Classic Fusion

AIB022

Andrew Brown - May 2019

Design Information	
Pavilion facets	26
Girdle facets	8
Crown facets	24+1
Total facets	59
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.000	T/W = 0.553
U/W = 0.553	P/W = 0.552
C/W = 0.154	V/W <sup>3</sup> = 0.305



RI = 2.30

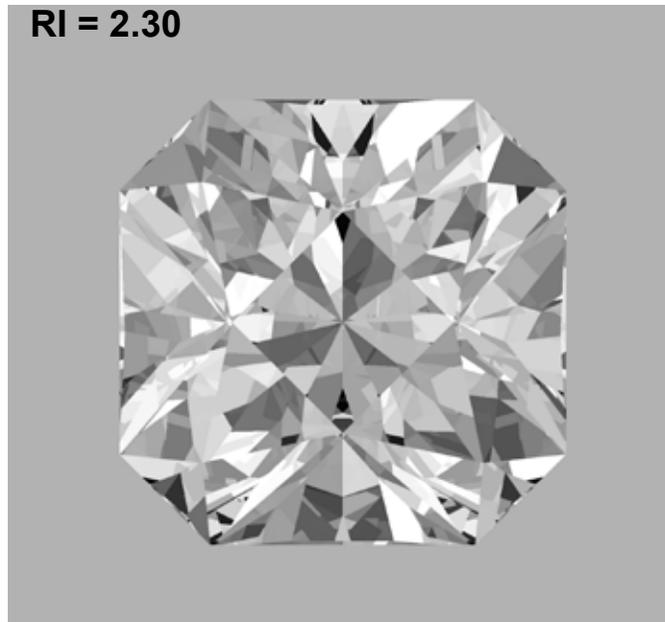
**Comment:**  
Cut with no changes to angles upto RI 2.45

# Fusion 49

AIB023

Andrew Brown - May 2019

Design Information	
Pavilion facets	22
Girdle facets	8
Crown facets	20+1
Total facets	51
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.000	T/W = 0.496
U/W = 0.496	P/W = 0.560
C/W = 0.164	V/W <sup>3</sup> = 0.303



Comment:

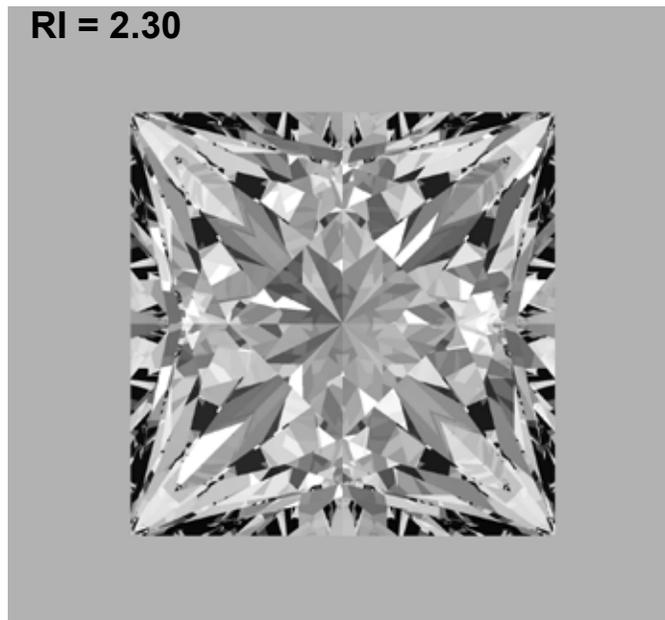
Cut with no changes to angles upto RI 2.45

# Quadraoptic Weave

AIB024

Andrew Brown - May 2019

Design Information	
Pavilion facets	20
Girdle facets	4
Crown facets	20+1
Total facets	45
Index gear	96
Symmetry	4-fold mirror image
RI range	1.65 to 2.45
L/W = 1.000	T/W = 0.539
U/W = 0.539	P/W = 0.575
C/W = 0.172	V/W <sup>3</sup> = 0.365



Comment:

Cut with no changes to angles upto RI 2.45

# Pirate Treasure

AIB025

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	8
Crown facets	16+1
Total facets	49
Index gear	96
Symmetry	4-fold mirror image
RI range	1.54 to 2.45
L/W = 1.000	T/W = 0.482
U/W = 0.482	P/W = 0.549
C/W = 0.155	V/W <sup>3</sup> = 0.308



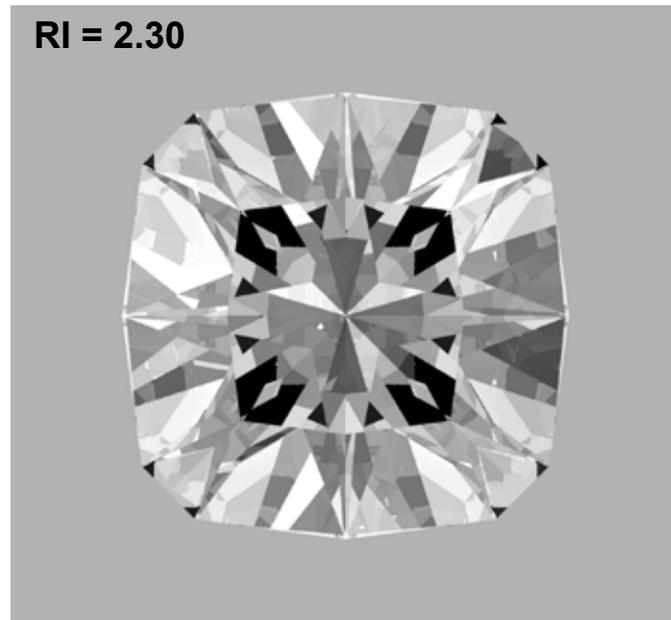
**Comment:**  
Cut with no changes to angles upto RI 2.45

# Breezy Cushion

AIB026

Andrew Brown - May 2019

Design Information	
Pavilion facets	28
Girdle facets	12
Crown facets	12+1
Total facets	53
Index gear	96
Symmetry	4-fold mirror image
RI range	1.54 to 2.45
L/W = 1.000	T/W = 0.531
U/W = 0.531	P/W = 0.508
C/W = 0.129	V/W <sup>3</sup> = 0.237



**Comment:**  
Cut with no changes to angles upto RI 2.45

# Birthday Box

AIB027

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	8
Crown facets	20+1
Total facets	53
Index gear	96
Symmetry	4-fold mirror image
RI range	1.70 to 2.45
L/W = 1.000	T/W = 0.540
U/W = 0.540	P/W = 0.567
C/W = 0.201	V/W <sup>3</sup> = 0.358

RI = 2.30



## Comment:

Cut with no changes to angles upto RI 2.45

# Heart Designs

# Heartbeat

AIB032

Andrew Brown - May 2019

Design Information	
Pavilion facets	26
Girdle facets	15
Crown facets	22+1
Total facets	64
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.018	T/W = 0.630
U/W = 0.587	P/W = 0.471
C/W = 0.117	V/W <sup>3</sup> = 0.203



## Comment:

Cut with no changes to angles upto RI 2.45

# Soul Rhythm

AIB033

Andrew Brown - May 2019

Design Information	
Pavilion facets	29
Girdle facets	15
Crown facets	25+1
Total facets	70
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.018	T/W = 0.609
U/W = 0.609	P/W = 0.505
C/W = 0.110	V/W <sup>3</sup> = 0.198



## Comment:

Cut with no changes to angles upto RI 2.45

# Trillion Designs

# Cosmic Mix

AIB028

Andrew Brown - May 2019

Design Information	
Pavilion facets	27
Girdle facets	15
Crown facets	21+1
Total facets	64
Index gear	96
Symmetry	3-fold mirror image
RI range	1.54 to 2.45
L/W = 1.015	T/W = 0.624
U/W = 0.581	P/W = 0.466
C/W = 0.116	V/W <sup>3</sup> = 0.195

RI = 2.30



Comment:

Cut with no changes to angles upto RI 2.45

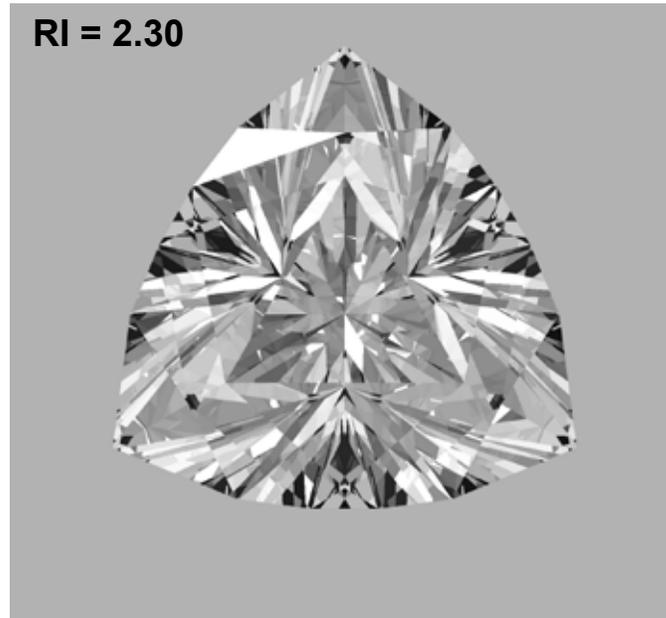
# Time Portal

AIB029

Andrew Brown - May 2019

Design Information	
Pavilion facets	21
Girdle facets	15
Crown facets	24+1
Total facets	61
Index gear	96
Symmetry	3-fold mirror image
RI range	1.54 to 2.45
L/W = 1.002	T/W = 0.516
U/W = 0.447	P/W = 0.496
C/W = 0.126	V/W <sup>3</sup> = 0.180

RI = 2.30



Comment:

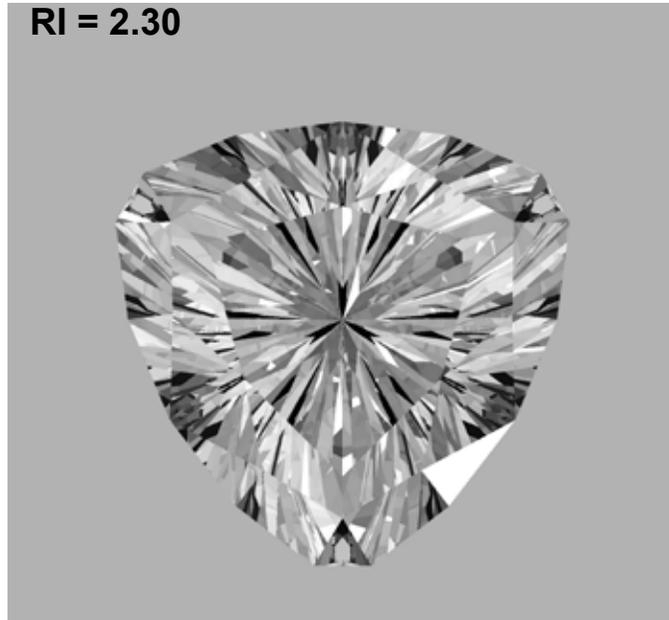
Cut with no changes to angles upto RI 2.45

# Tristar Impact

AIB030

Andrew Brown - May 2019

Design Information	
Pavilion facets	30
Girdle facets	15
Crown facets	24+1
Total facets	70
Index gear	96
Symmetry	3-fold mirror image
RI range	1.54 to 2.45
L/W = 1.021	T/W = 0609
U/W = 0.609	P/W = 0.505
C/W = 0.110	V/W <sup>3</sup> = 0.200



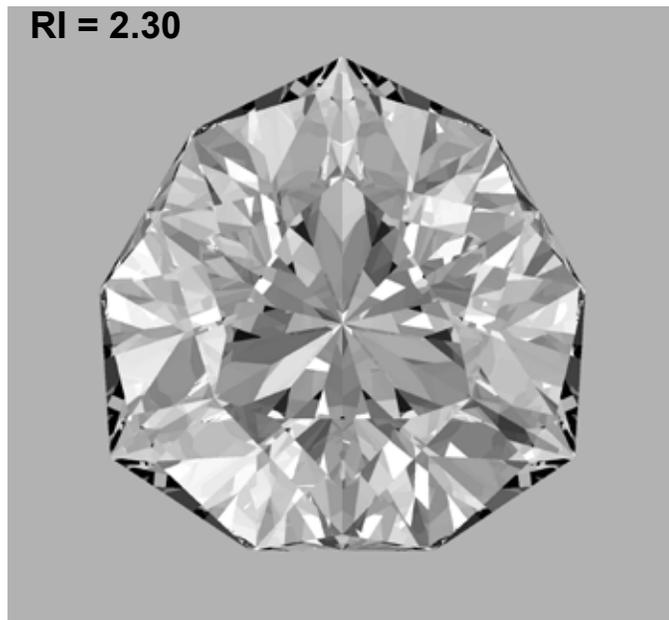
**Comment:**  
Cut with no changes to angles upto RI 2.45

# Eternal Protection

AIB031

Andrew Brown - May 2019

Design Information	
Pavilion facets	36
Girdle facets	9
Crown facets	27+1
Total facets	73
Index gear	96
Symmetry	3-fold mirror image
RI range	1.54 to 2.45
L/W = 1.019	T/W = 0.529
U/W = 0.501	P/W = 0.519
C/W = 0.144	V/W <sup>3</sup> = 0.249



**Comment:**  
Cut with no changes to angles upto RI 2.45

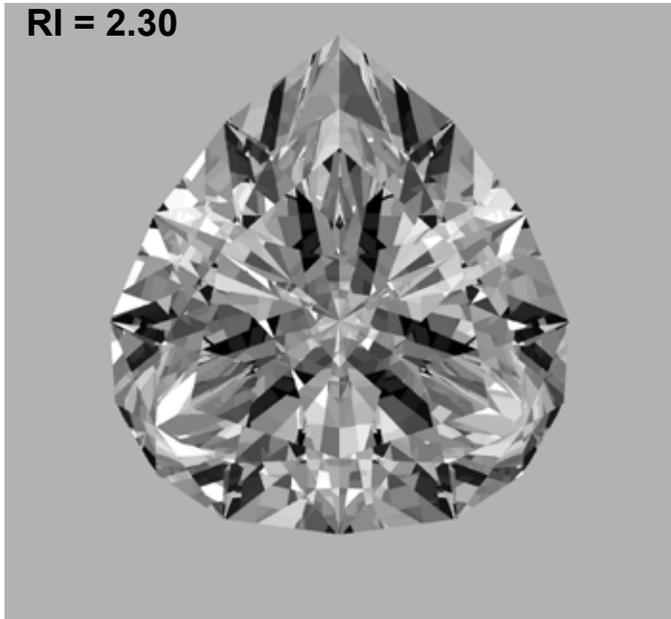
# Pear Designs

# Sweet Strawberry

AIB034

Andrew Brown - May 2019

Design Information	
Pavilion facets	28
Girdle facets	14
Crown facets	24+1
Total facets	67
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.060	T/W = 0.677
U/W = 0.653	P/W = 0.489
C/W = 0.124	V/W <sup>3</sup> = 0.222



Comment:

Cut with no changes to angles upto RI 2.45

# Light Bulb

AIB035

Andrew Brown - May 2019

Design Information	
Pavilion facets	26
Girdle facets	14
Crown facets	25+1
Total facets	66
Index gear	96
Symmetry	1-fold mirror image
RI range	1.70 to 2.45
L/W = 1.315	T/W = 0.763
U/W = 0.503	P/W = 0.523
C/W = 0.116	V/W <sup>3</sup> = 0.292



Comment:

Cut with angles for 2.16 upto RI 2.45

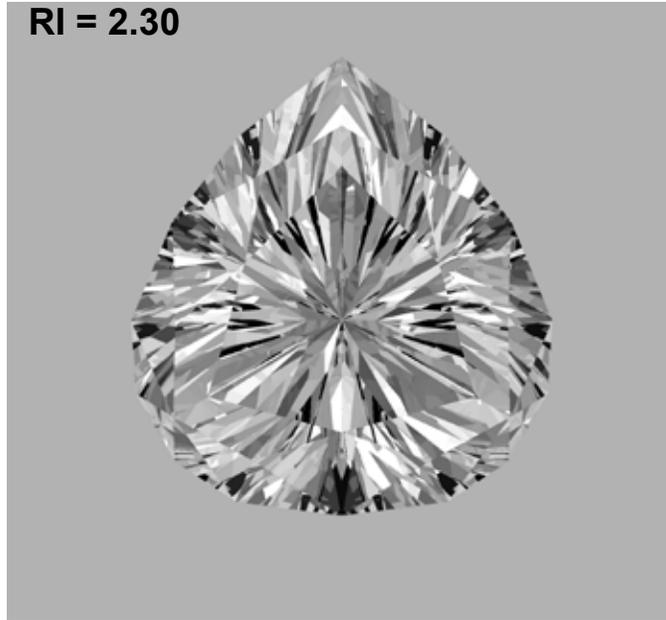
# Starry Starry Pear

AIB036

Andrew Brown - May 2019

Design Information	
Pavilion facets	31
Girdle facets	14
Crown facets	27+1
Total facets	73
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.089	T/W = 0.632
U/W = 0.632	P/W = 0.546
C/W = 0.114	V/W <sup>3</sup> = 0.230

RI = 2.30



## Comment:

Cut with no changes to angles upto RI 2.45

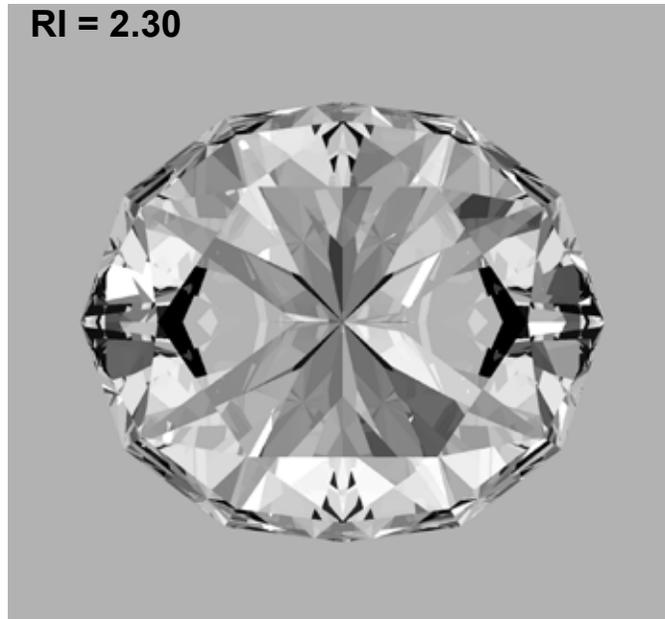
# Oval Designs

# Xoval 1.19

AIB037

Andrew Brown - May 2019

Design Information	
Pavilion facets	28
Girdle facets	12
Crown facets	30+1
Total facets	71
Index gear	96
Symmetry	2-fold mirror image
RI range	1.54 to 2.45
L/W = 1.192	T/W = 0.841
U/W = 0.614	P/W = 0.574
C/W = 0.136	V/W <sup>3</sup> = 0.315



Comment:

Cut with no changes to angles upto RI 2.45

# Stepovaler 1.23

AIB038

Andrew Brown - May 2019

Design Information	
Pavilion facets	44
Girdle facets	16
Crown facets	32+1
Total facets	93
Index gear	96
Symmetry	2-fold mirror image
RI range	1.70 to 2.35
L/W = 1.234	T/W = 0.802
U/W = 0.579	P/W = 0.566
C/W = 0.161	V/W <sup>3</sup> = 0.330



Comment:

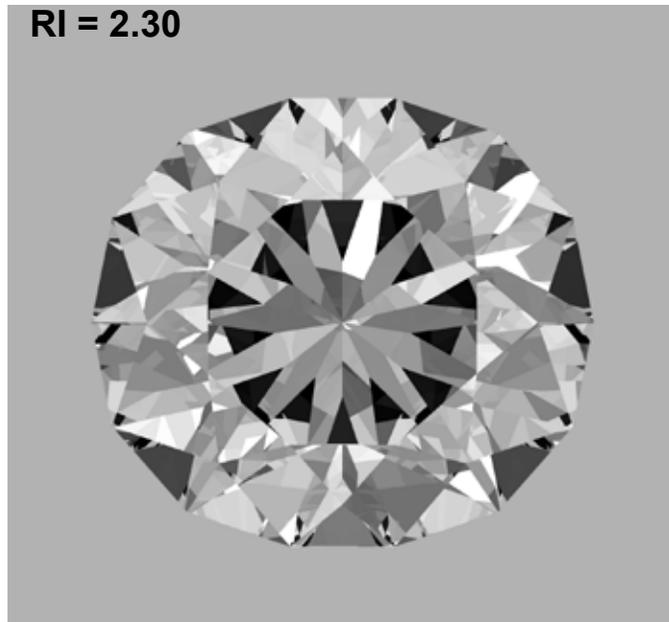
Cut with no changes to angles upto RI 2.35

# Fusion Seven Oval 1.12

AIB039

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	14
Crown facets	30+1
Total facets	69
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.118	T/W = 0.598
U/W = 0.547	P/W = 0.527
C/W = 0.163	V/W <sup>3</sup> = 0.291



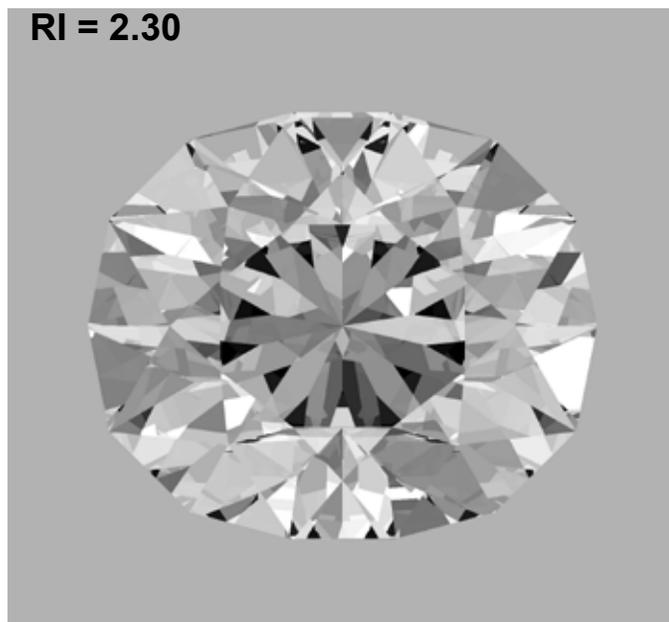
**Comment:**  
Cut with no changes to angles upto RI 2.45

# Fusion Seven Oval 1.19

AIB040

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	14
Crown facets	30+1
Total facets	69
Index gear	96
Symmetry	1-fold mirror
RI range	1.54 to 2.45
L/W = 1.190	T/W = 0.572
U/W = 0.473	P/W = 0.563
C/W = 0.170	V/W <sup>3</sup> = 0.334



**Comment:**  
Cut with no changes to angles upto RI 2.45

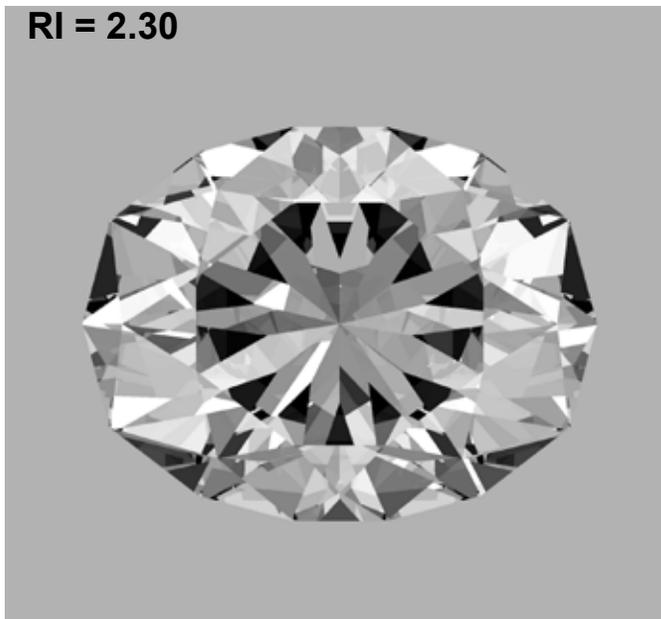
# Fusion Seven Oval 1.30

AIB041

Andrew Brown - May 2019

Design Information	
Pavilion facets	28
Girdle facets	14
Crown facets	30+1
Total facets	73
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.304	T/W = 0.727
U/W = 0.616	P/W = 0.618
C/W = 0.143	V/W <sup>3</sup> = 0.376

RI = 2.30



Comment:

Cut with no changes to angles upto RI 2.45

# Fusion Seven Oval 1.43

AIB042

Andrew Brown - May 2019

Design Information	
Pavilion facets	28
Girdle facets	14
Crown facets	24+1
Total facets	67
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.428	T/W = 0.766
U/W = 0.492	P/W = 0.669
C/W = 0.177	V/W <sup>3</sup> = 0.460

RI = 2.30



Comment:

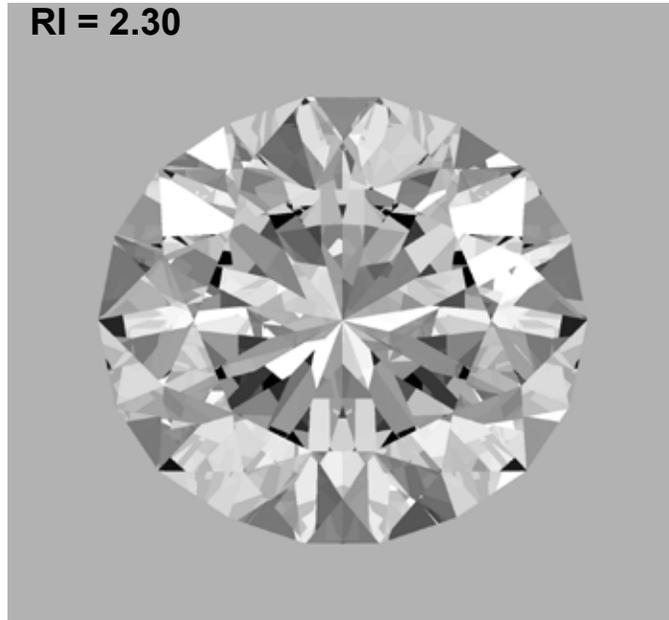
Cut with no changes to angles upto RI 2.45

# Fusion Nine Oval 1.10

AIB043

Andrew Brown - May 2019

Design Information	
Pavilion facets	32
Girdle facets	18
Crown facets	38+1
Total facets	89
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.093	T/W = 0.664
U/W = 0.588	P/W = 0.506
C/W = 0.152	V/W <sup>3</sup> = 0.376



**Comment:**  
Cut with no changes to angles upto RI 2.45

# Fusion Nine Oval 1.18

AIB044

Andrew Brown - May 2019

Design Information	
Pavilion facets	32
Girdle facets	18
Crown facets	32+1
Total facets	83
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.175	T/W = 0.699
U/W = 0.559	P/W = 0.528
C/W = 0.147	V/W <sup>3</sup> = 0.301



**Comment:**  
Cut with no changes to angles upto RI 2.45

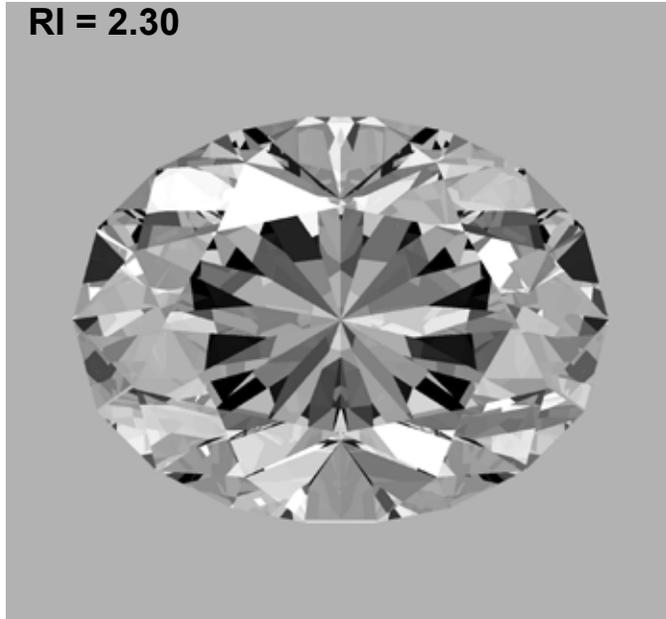
# Fusion Nine Oval 1.32

AIB045

Andrew Brown - May 2019

Design Information	
Pavilion facets	36
Girdle facets	18
Crown facets	32+1
Total facets	87
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.319	T/W = 0.861
U/W = 0.558	P/W = 0.621
C/W = 0.157	V/W <sup>3</sup> = 0.383

RI = 2.30



Comment:

Cut with no changes to angles upto RI 2.45

# Fusion Nine Oval 1.42

AIB046

Andrew Brown - May 2019

Design Information	
Pavilion facets	36
Girdle facets	18
Crown facets	32+1
Total facets	87
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.421	T/W = 0.862
U/W = 0.620	P/W = 0.642
C/W = 0.157	V/W <sup>3</sup> = 0.440

RI = 2.30



Comment:

Cut with no changes to angles upto RI 2.45

# Rectangular Designs

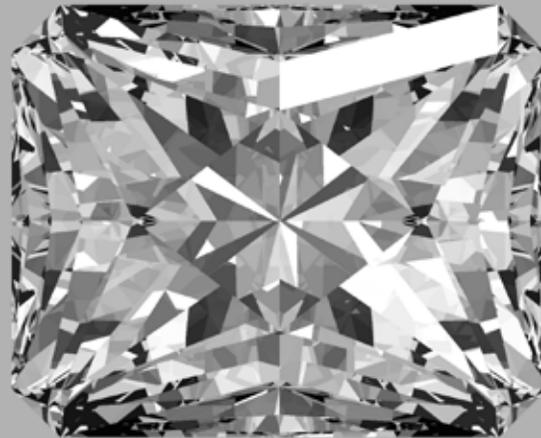
# Timeless Gift

AIB047

Andrew Brown - May 2019

Design Information	
Pavilion facets	32
Girdle facets	8
Crown facets	20+1
Total facets	61
Index gear	96
Symmetry	2-fold mirror image
RI range	1.65 to 2.45
L/W = 1.237	T/W = 0.665
U/W = 0.510	P/W = 0.653
C/W = 0.179	V/W <sup>3</sup> = 0.482

RI = 2.30



Comment:

Cut with no changes to angles upto RI 2.45

# Lace Pillow

AIB048

Andrew Brown - May 2019

Design Information	
Pavilion facets	30
Girdle facets	12
Crown facets	36+1
Total facets	79
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.163	T/W = 0.658
U/W = 0.458	P/W = 0.623
C/W = 0.166	V/W <sup>3</sup> = 0.403

RI = 2.30



Comment:

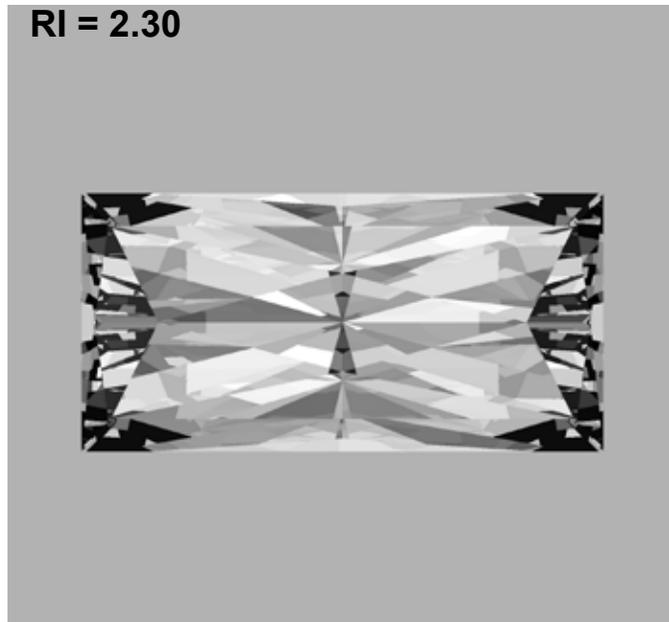
Cut with no changes to angles upto RI 2.45

# Starlight Divide

AIB049

Andrew Brown - May 2019

Design Information	
Pavilion facets	16
Girdle facets	4
Crown facets	16+1
Total facets	37
Index gear	96
Symmetry	2-fold mirror image
RI range	1.54 to 2.45
L/W = 2.015	T/W = 0.423
U/W = 0.381	P/W = 0.597
C/W = 0.196	V/W <sup>3</sup> = 0.909



**Comment:**  
Cut with no changes to angles upto RI 2.45

# Sweet Dreams

AIB050

Andrew Brown - May 2019

Design Information	
Pavilion facets	30
Girdle facets	12
Crown facets	28+1
Total facets	71
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.163	T/W = 0.724
U/W = 0.551	P/W = 0.618
C/W = 0.148	V/W <sup>3</sup> = 0.392



**Comment:**  
Cut with no changes to angles upto RI 2.45

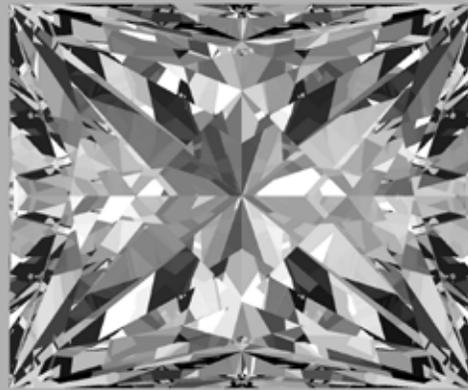
# Magic Carpet

AIB051

Andrew Brown - May 2019

Design Information	
Pavilion facets	20
Girdle facets	4
Crown facets	20+1
Total facets	45
Index gear	96
Symmetry	2-fold mirror image
RI range	1.65 to 2.45
L/W = 1.210	T/W = 0.550
U/W = 0.550	P/W = 0.649
C/W = 0.183	V/W <sup>3</sup> = 0.484

RI = 2.30



Comment:

Cut with no changes to angles upto RI 2.45

# Easy Fusion Rect Cushion

AIB052

Andrew Brown - May 2019

Design Information	
Pavilion facets	20
Girdle facets	12
Crown facets	24+1
Total facets	57
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.212	T/W = 0.632
U/W = 0.440	P/W = 0.565
C/W = 0.170	V/W <sup>3</sup> = 0.366

RI = 2.30



Comment:

Cut with no changes to angles upto RI 2.45

# Hexagonal Designs

# Hexamesh

AIB053

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	6
Crown facets	12+1
Total facets	43
Index gear	96
Symmetry	3-fold mirror image
RI range	1.54 to 2.40
L/W = 1.155	T/W = 0.683
U/W = 0.591	P/W = 0.572
C/W = 0.142	V/W <sup>3</sup> = 0.307



Comment:

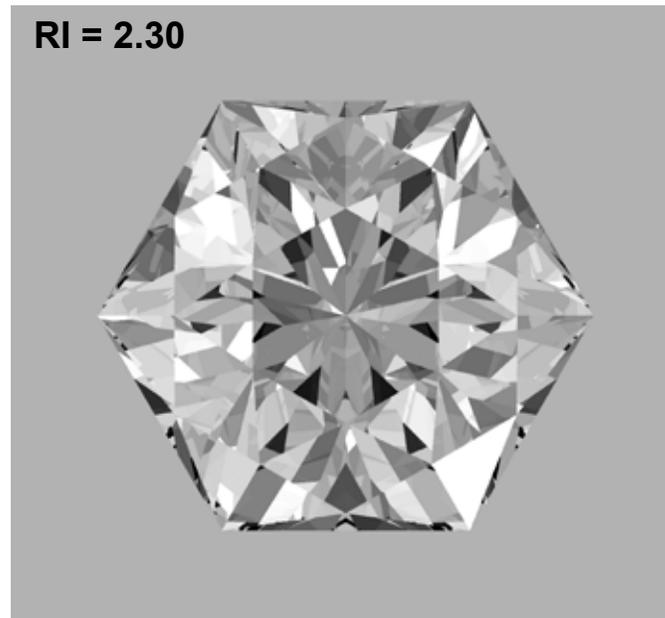
Cut with no changes to angles upto RI 2.40

# Hexafusion Seven

AIB054

Andrew Brown - May 2019

Design Information	
Pavilion facets	20
Girdle facets	6
Crown facets	30+1
Total facets	57
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.155	T/W = 0.500
U/W = 0.433	P/W = 0.535
C/W = 0.175	V/W <sup>3</sup> = 0.309



Comment:

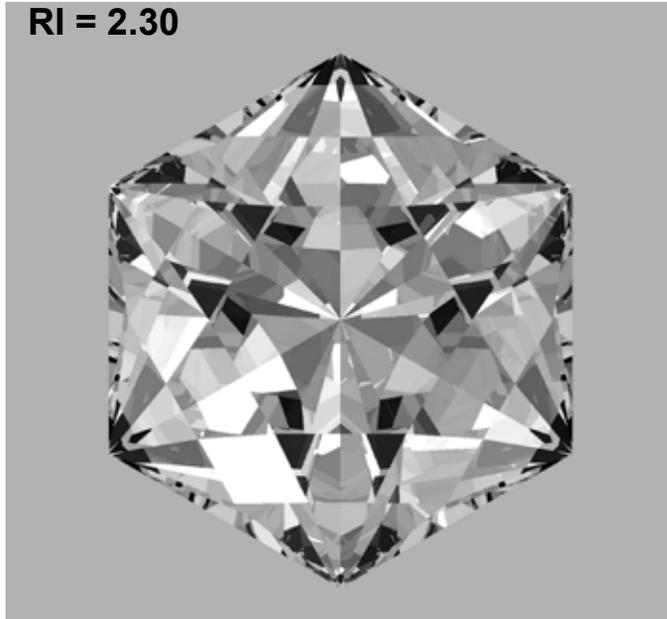
Cut with no changes to angles upto RI 2.45

# Trivergence

AIB055

Andrew Brown - May 2019

Design Information	
Pavilion facets	18
Girdle facets	6
Crown facets	36+1
Total facets	61
Index gear	96
Symmetry	3-fold mirror image
RI range	1.76 to 2.45
L/W = 1.155	T/W = 0.567
U/W = 0.491	P/W = 0.464
C/W = 0.131	V/W <sup>3</sup> = 0.245



## Comment:

Cut with no changes to angles upto RI 2.45

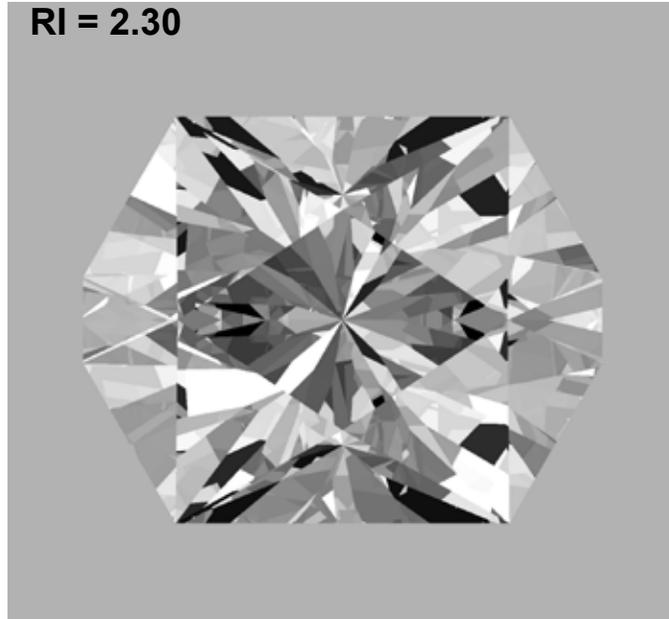
# Other Designs

# Diamond Nine

AIB056

Andrew Brown - May 2019

Design Information	
Pavilion facets	24
Girdle facets	8
Crown facets	12+1
Total facets	45
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.276	T/W = 0.811
U/W = 0.542	P/W = 0.587
C/W = 0.171	V/W <sup>3</sup> = 0.398



**Comment:**

Cut with no changes to angles upto RI 2.45

# Stargazing

AIB057

Andrew Brown - May 2019

Design Information	
Pavilion facets	34
Girdle facets	18
Crown facets	18+1
Total facets	71
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.298	T/W = 0.825
U/W = 0.500	P/W = 0.609
C/W = 0.131	V/W <sup>3</sup> = 0.317



**Comment:**

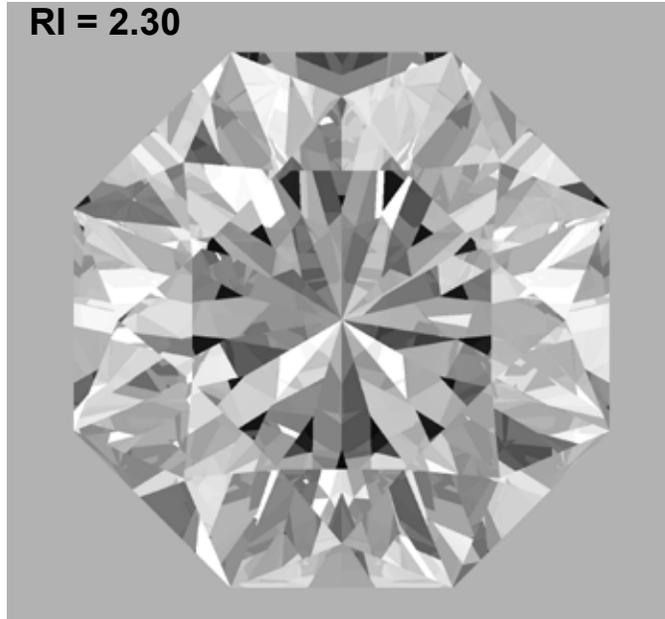
Cut with no changes to angles upto RI 2.45

# Octafusion Nine

AIB058

Andrew Brown - May 2019

Design Information	
Pavilion facets	26
Girdle facets	8
Crown facets	32+1
Total facets	67
Index gear	96
Symmetry	1-fold mirror image
RI range	1.54 to 2.45
L/W = 1.00	T/W = 0.558
U/W = 0.558	P/W = 0.520
C/W = 0.106	V/W <sup>3</sup> = 0.245



## Comment:

Cut with no changes to angles upto RI 2.45