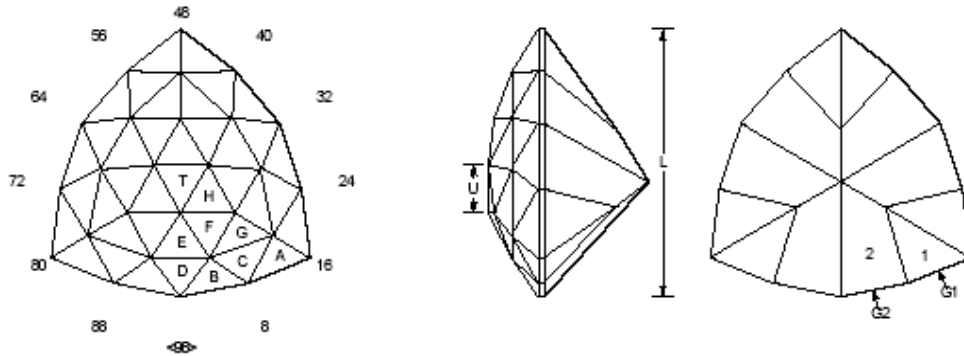


Original Gem Faceting Designs and Certificate of Design Program by John Bailey

<http://www.gemstoneartist.com/Default.asp>
Visit this site for more designs and updates!



Julia's Joy 365

by John Bailey, 2006

Angles for R.I. = 1.540

52 + 12 girdles = 64 facets

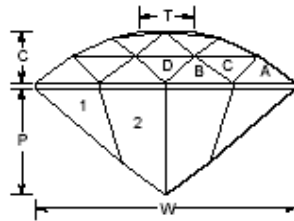
3-fold, mirror-image symmetry

96 index

L/W = 1.017 T/W = 0.209 U/W = 0.181

P/W = 0.402 C/W = 0.193

Vol./W³ = 0.180



PAVILION

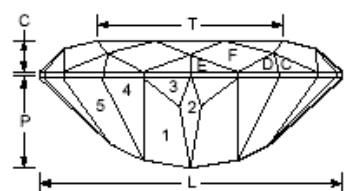
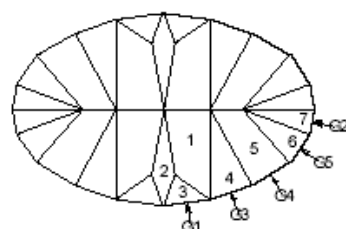
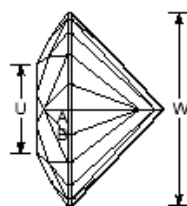
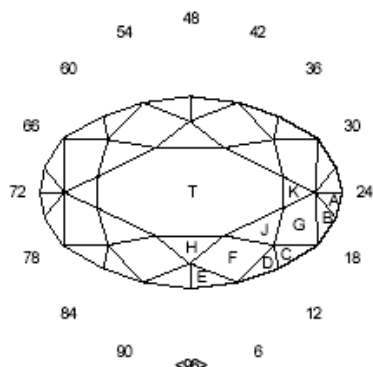
1	43.00°	06-26-38-58-70-90	CTP - & CAM idx 3 @ 44.7°
G1	90.00°	06-26-38-58-70-90	
G2	90.00°	03-29-35-61-67-93	
2	43.00°	03-29-35-61-67-93	Recut from CAM

CROWN

A	38.10°	06-26-38-58-70-90	Set girdle thickness
B	39.20°	03-29-35-61-67-93	Even Girdle
C	36.00°	05-27-37-59-69-91	Meet A, B, Girdle
D	34.20°	96-32-64	Meet B, Girdle
E	28.30°	96-32-64	Meet B, C, D
F	25.30°	04-28-36-60-68-92	Meet B, C, D, E
G	26.80°	05-27-37-59-69-91	Meet B, C, D, E and A, C
T	0.00°	Table	Meet E, G, H
H	7.86°	16-48-80	Meet F, G

COS Brightness = 70.1

E:\Dvue2\MyGems\JJ365.gem



Canoe Oval

by John Bailey, 2006

Angles for R.I. = 1.650

63 + 20 girdles = 83 facets

2-fold, mirror-image symmetry

96 index

$L/W = 1.570$ $T/W = 0.964$ $U/W = 0.460$

$P/W = 0.473$ $C/W = 0.166$

$Vol./W^3 = 0.377$

PAVILION

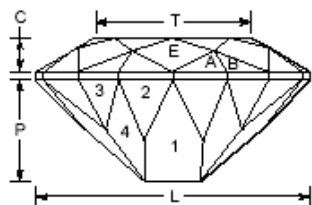
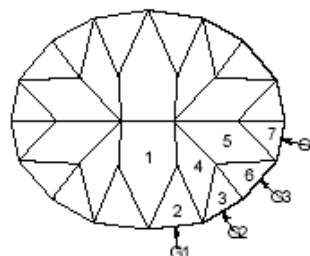
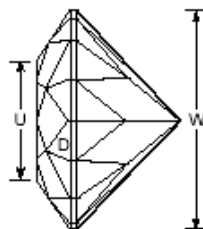
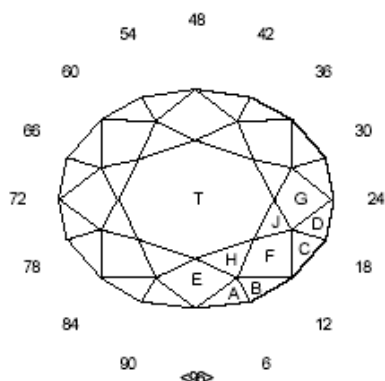
1	43.00°	03-45-51-93	CTP
G1	90.00°	02-46-50-94	Calibrate width
2	43.40°	96-48	Meet Culet, Girdle
3	45.00°	02-46-50-94	Meet 1, 2, Girdle
4	44.00°	05-43-53-91	Meet 1, 3, Girdle
5	43.60°	08-40-56-88	Meet 1, 4
G2	90.00°	21-27-69-75	Calibrate LW = 1.57
G3	90.00°	05-43-53-91	Meet 1, 3, 4, G1
G4	90.00°	08-40-56-88	Meet 4, 5, G2
G5	90.00°	15-33-63-81	
6	44.00°	15-33-63-81	Meet 5, G4, G5
7	43.60°	21-27-69-75	Meet 5, 6, and 6, G2, G5

CROWN

A	44.00°	21-27-69-75	Set Girdle thickness
B	38.10°	15-33-63-81	Even Girdle
C	41.20°	08-40-56-88	Even Girdle
D	40.00°	05-43-53-91	Even Girdle
E	37.00°	02-46-50-94	Even Girdle
F	34.00°	03-45-51-93	Meet D, E, Girdle
G	32.00°	12-36-60-84	Meet B, C, Girdle
H	26.40°	96-48	Meet E, F
J	22.60°	07-41-55-88	Meet C, D, F, G
T	0.00°	Table	Meet F, H, J
K	13.00°	24-72	Meet A, B, G and G, J, T

COS Brightness = 49.7

E:\Dvue2\MyGems\Canoe.gem



Keel Oval

by John Bailey, 2006

Angles for R.I. = 1.540

59 + 16 girdles = 75 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.247 T/W = 0.706 U/W = 0.542

P/W = 0.466 C/W = 0.153

Vol./W³ = 0.303

PAVLION

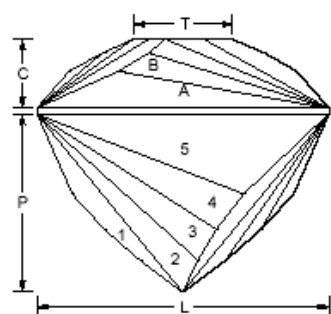
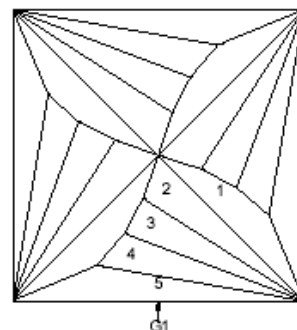
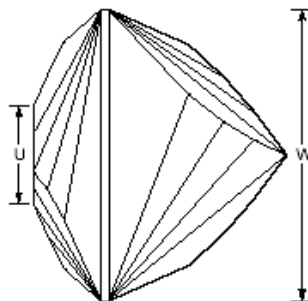
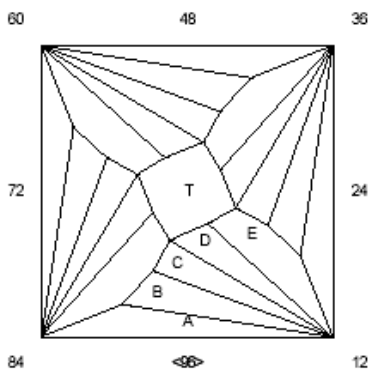
1	43.00°	96-48	Locate Culet keel
G1	90.00°	02-46-50-94	Calibrate width
2	45.00°	02-46-50-94	Meet 1, Girdle
3	48.30°	08-40-56-88	Meet 1, 2
4	44.00°	05-43-53-91	Meet 2, 3, Girdle
5	43.10°	17-31-65-79	Meet 1, 4
6	48.70°	13-35-61-83	Meet 3, 4, 5
G2	90.00°	08-40-56-88	
G3	90.00°	13-35-61-83	
G4	90.00°	21-27-69-75	
7	47.00°	21-27-69-75	Meet 5, 6, Girdle

CROWN

A	39.00°	02-46-50-94	Set Girdle width
B	37.00°	08-40-56-88	Even Girdle
C	37.00°	13-35-61-83	Even Girdle
D	34.20°	21-27-69-75	Even Girdle
E	33.70°	96-48	Meet A, Girdle
F	32.00°	10-38-58-86	Meet B, C, Girdle
G	29.50°	24-72	Meet D, Girdle
H	22.00°	05-43-53-91	Meet A, B, E, F
J	18.60°	17-31-65-79	Meet C, D, F, G
T	0.00°	Table	

COS Brightness = 53.4

E:\Dvue2\MyGems\KeelOval.gem



Robert's Qwix

by John Bailey, 2006

Angles for R.I. = 1.540

41 + 4 girdles = 45 facets

4-fold radial symmetry

96 index

L/W = 1.000 T/W = 0.338 U/W = 0.338

P/W = 0.609 C/W = 0.234

Vol./W³ = 0.399

PAVILION

1	41.30°	09-33-57-81	CTP
2	43.00°	06-30-54-78	Meet Culet
G1	90.00°	96-24-48-72	Preform, Meet 1, 2, at corner
3	46.00°	04-28-52-76	Meet 1, 2, Girdle
4	52.00°	02-26-50-74	Meet 1, 2, 3, Girdle
5	66.00°	96-24-48-72	Meet corners

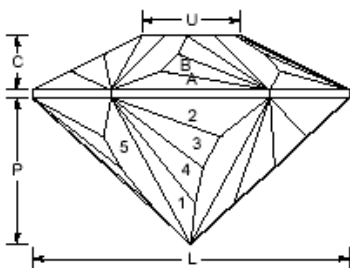
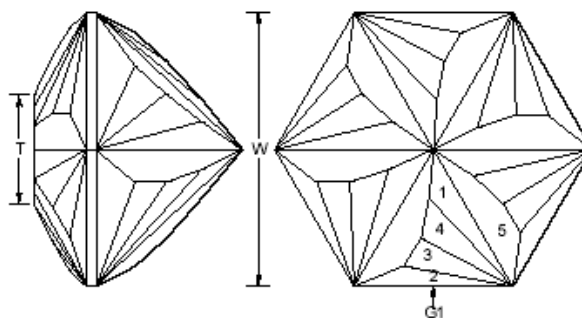
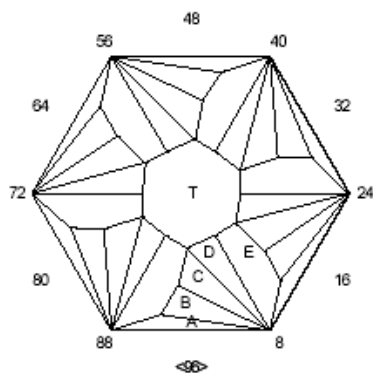
CROWN

A	49.20°	96-24-48-72	Set Girdle width
B	32.00°	02-26-50-74	Meet A, Girdle
C	26.70°	04-28-52-76	Meet A, B, Girdle
D	24.20°	06-30-54-78	Meet A, B, C, Girdle
E	23.10°	08-32-56-80	Meet A, B, C, D, Girdle
T	0.00°	Table	Meet C, D, E

COS Brightness = 60.5

in fond memory of Robert Griffith

E:\Dvue2\MyGems\Qwix.gem



Ken's Kwik Swix

by John Bailey, 2006

Angles for R.I. = 1.540

61 + 6 girdles = 67 facets

6-fold radial symmetry

96 index

L/W = 1.155 T/W = 0.395 U/W = 0.356

P/W = 0.534 C/W = 0.195

Vol./W³ = 0.296

PAVILION

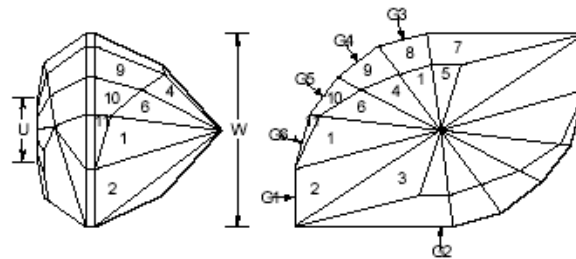
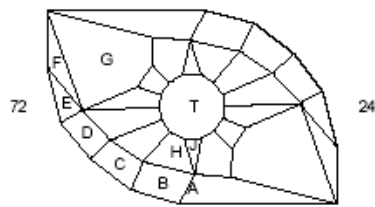
1	43.00°	06-22-38-54-70-86	CTP
G1	90.00°	96-16-32-48-64-80	Preform
4	44.70°	04-20-36-52-68-84	Meet 1, 2, 3, Girdle
3	49.30°	02-18-34-50-66-82	Meet 1, 2, Girdle
2	63.00°	96-16-32-48-64-80	Meet 1, G1
5	42.75°	08-24-40-56-72-88	Meet 1, 2, 3, 4, Girdle & Culet

CROWN

A	50.00°	96-16-32-48-64-80	Set Girdle width
B	32.00°	02-18-34-50-66-82	Meet A, Girdle
C	27.70°	04-20-36-52-68-84	Meet A, B, Girdle
D	26.20°	06-22-38-54-70-86	Meet A, B, C, Girdle
E	26.00°	08-24-40-56-72-88	Meet A, B, C, D, Girdle
T	0.00°	Table	Meet C, D, E

COS Brightness = 64.4

E:\Dvue2\MyGems\Swix.gem



Right Eye

by John Bailey, 2006

Angles for R.I. = 1.540

53 + 12 girdles = 65 facets

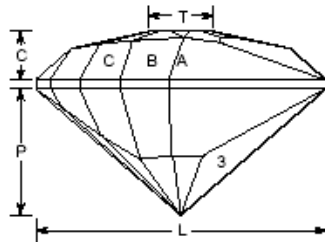
2-fold radial symmetry

96 index

L/W = 1.505 T/W = 0.337 U/W = 0.329

P/W = 0.655 C/W = 0.251

Vol./W³ = 0.567



PAVILION

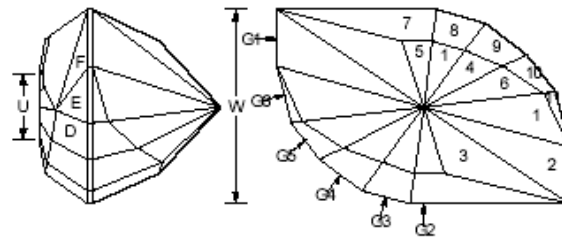
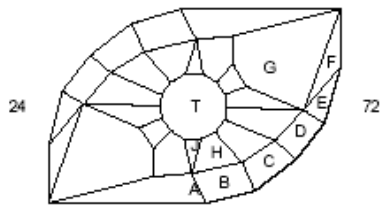
1	42.30°	03-22-51-70	CTP
2	41.00°	24-72	CAM
3	41.10°	42-90	CAM
4	42.00°	16-64	CAM
5	42.50°	96-48	CAM
6	42.60°	20-68	CAM
G1	90.00°	24-72	Calibrate length
G2	90.00°	96-48	Meet 2, 3, G1
G3	90.00°	04-52	Meet 1, 5, G1
G4	90.00°	10-58	Meet 1, 4, G3
G5	90.00°	14-62	Meet 4, 6, G4
G6	90.00°	20-68	Meet 1, 6, G5 & 1, 2, G1
7	65.00°	96-48	Meet 2, 3, Girdle
8	65.00°	04-52	Even Girdle, Meet 1, 5, 7
9	63.40°	10-58	Even Girdle, Meet 1, 4, 8
10	61.40°	14-62	Even Girdle, Meet 4, 6, 9
11	57.90°	20-68	Meet 1, 6, 10 & 1, 2, G1

CROWN

A	55.00°	96-48	Set Girdle width
B	52.40°	44-92	Even Girdle
C	52.80°	38-86	Even Girdle
D	52.40°	34-82	Even Girdle
E	52.90°	28-76	Even Girdle
F	40.90°	24-72	Even Girdle
G	20.00°	15-63	Meet A, F, Girdle
H	13.00°	08-15-22-27-33-41-56-63-70-75-81-89	CTP - Meets per diagram
J	10.00°	96-48	
T	0.00°	Table	H & J same width @ Table

COS Brightness = 56.4

E:\Dvue2\MyGems\EyeRight.gem



Left Eye

by John Bailey, 2006

Angles for R.I. = 1.540

53 + 12 girdles = 65 facets

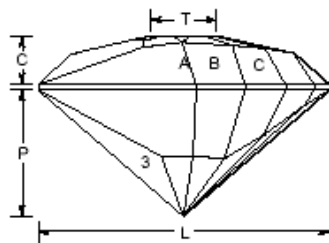
2-fold radial symmetry

96 index

L/W = 1.505 T/W = 0.345 U/W = 0.338

P/W = 0.655 C/W = 0.251

Vol./W³ = 0.542



PAVILION

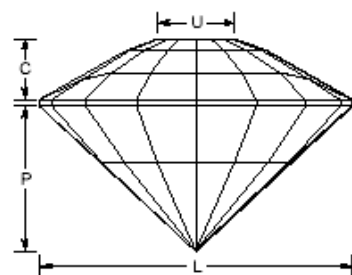
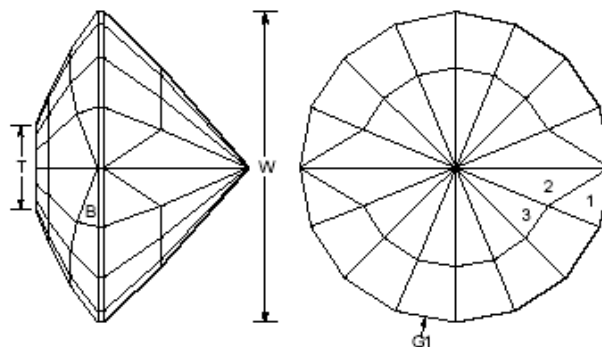
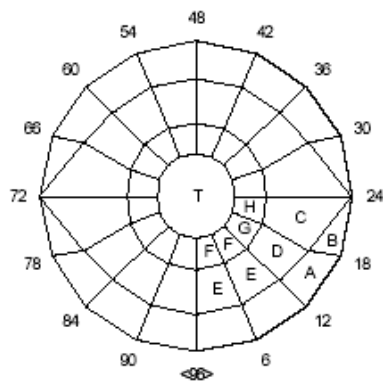
1	42.30°	03-22-51-70	CTP
2	41.00°	24-72	CAM
3	41.10°	42-90	CAM
4	42.00°	16-64	CAM
5	42.50°	96-48	CAM
6	42.60°	20-68	CAM
G1	90.00°	24-72	Calibrate length
G2	90.00°	96-48	Meet 2, 3, G1
G3	90.00°	04-52	Meet 1, 5, G1
G4	90.00°	10-58	Meet 1, 4, G3
G5	90.00°	14-62	Meet 4, 6, G4
G6	90.00°	20-68	Meet 1, 6, G5 & 1, 2, G1
7	65.00°	96-48	Meet 2, 3, Girdle
8	65.00°	04-52	Even Girdle, Meet 1, 5, 7
9	63.40°	10-58	Even Girdle, Meet 1, 4, 8
10	61.40°	14-62	Even Girdle, Meet 4, 6, 9
11	57.90°	20-68	Meet 1, 6, 10 & 1, 2, G1

CROWN

A	55.00°	96-48	Set Girdle width
B	52.40°	44-92	Even Girdle
C	52.80°	38-86	Even Girdle
D	52.40°	34-82	Even Girdle
E	52.90°	28-76	Even Girdle
F	40.90°	24-72	Even Girdle
G	20.00°	15-63	Meet A, F, Girdle
H	13.00°	08-15-22-27-33-41-56-63-70-75-81-89	CTP - Meets per diagram
J	10.00°	96-48	Meet A, B, H
T	0.00°	Table	H & J same width at Table

COS Brightness = 56.4

E:\Dvue2\MyGems\EyeLeft.gem



Gaijin

by John Bailey, 2006

Angles for R.I. = 1.540

81 + 16 girdles = 97 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.272 U/W = 0.247

P/W = 0.465 C/W = 0.194

Vol./W³ = 0.217

PAVILION

1	46.00°	03-09-15-21- 27-33-39-45- 51-57-63-69- 75-81-87-93	CTP
G1	90.00°	03-09-15-21- 27-33-39-45- 51-57-63-69- 75-81-87-93	Calibrate Size
2	43.00°	23-25-71-73	Meet 1, Girdle
3	42.00°	03-09-15-33- 39-45-51-57- 63-81-87-93	Meet 1, 2 and Culet

CROWN

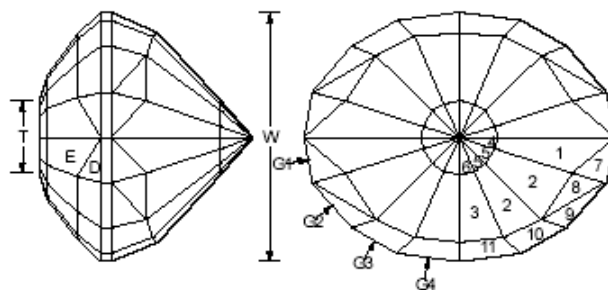
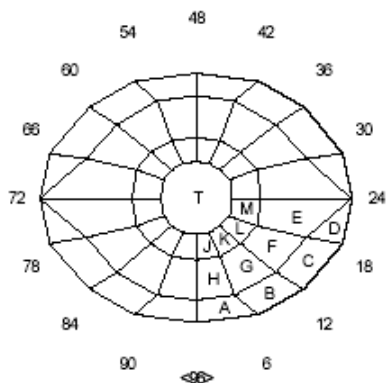
A	35.40°	03-09-15-33- 39-45-51-57- 63-81-87-93	Set Girdle thickness
B	33.00°	21-27-69-75	Even Girdle
C	30.00°	22-26-70-74	Meet B, Girdle
D	28.00°	16-32-64-80	Meet A, B, C
E	28.00°	03-09-39-45- 51-57-87-93	Meet A, D
F	20.00°	03-09-39-45- 51-57-87-93	Divide width of E in half
G	20.00°	16-32-64-80	Meet D, E, F
H	20.00°	22-26-70-74	Meet C, D, G
T	0.00°	Table	

Fast and easy eyeball.

You can chop a flat culet if you like.

COS Brightness = 57.6

E:\Dvue2\MyGems\Gaijin.gem



Private Eye

by John Bailey, 2006

Angles for R.I. = 1.540

101 + 16 girdles = 117 facets

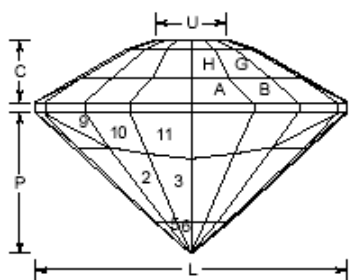
2-fold, mirror-image symmetry

96 index

L/W = 1.247 T/W = 0.292 U/W = 0.282

P/W = 0.567 C/W = 0.251

Vol.W³ = 0.374



PAVILION

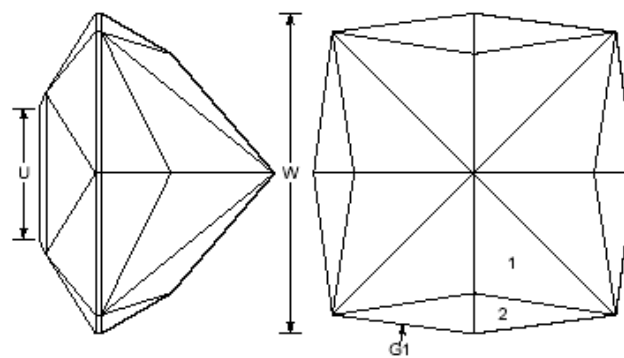
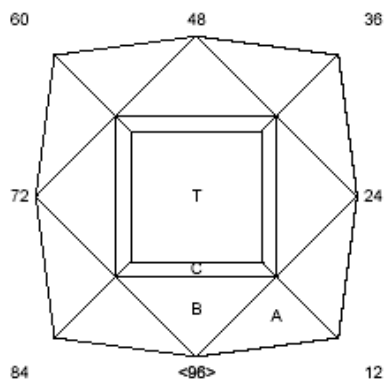
1	43.00°	22-26-70-74	CTP
2	43.70°	09-15-33-39- 57-63-81-87	Meet Culet
3	43.90°	03-45-51-93	Meet Culet
4	41.00°	22-26-70-74	CTP
5	41.70°	09-15-33-39- 57-63-81-87	Meet Culet
6	41.90°	03-45-51-93	Meet Culet
7	45.20°	21-27-69-75	Locate end
8	46.50°	15-33-63-81	Meet 1, 2, 7
9	55.40°	13-35-61-83	Meet 2, 2, 8
10	60.50°	08-40-56-88	Meet 2, 8, 9
11	65.80°	02-46-50-94	Meet 2, 3, 10
G1	90.00°	21-27-69-75	Establish end
G2	90.00°	13-35-61-83	Even Girdle
G3	90.00°	08-40-56-88	Even Girdle
G4	90.00°	02-46-50-94	Even Girdle

CROWN

A	47.00°	02-46-50-94	Set Girdle thickness
B	40.00°	08-40-56-88	Even Girdle
C	37.00°	13-35-61-83	Even Girdle
D	32.50°	21-27-69-75	Even Girdle
E	30.50°	22-26-70-74	Meet D, Girdle
F	33.80°	13-35-61-83	Meet C, D, E
G	35.70°	08-40-56-88	Meet B, C, F
H	36.00°	02-46-50-94	Meet A, B, G
J	20.50°	02-46-50-94	Divide H in half
K	19.50°	08-40-56-88	Meet G, H, J
L	18.50°	13-35-61-83	Meet F, G, K
N	17.80°	22-26-70-74	Meet E, F, L
T	0.00°	Table	

COS Brightness = 46.4

E:\Dvue2\MyGems\PrivateEye.gem



FSC-04 (Fast Square Cushion Four)

by John Bailey, 2006

Angles for R.I. = 1.540

33 + 8 girdles = 41 facets

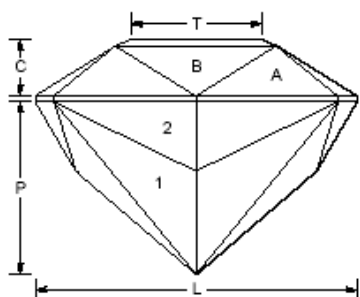
4-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.407 U/W = 0.407

P/W = 0.538 C/W = 0.177

Vol./W³ = 0.288



PAVILION

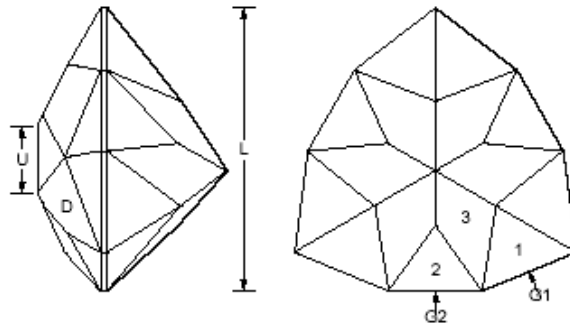
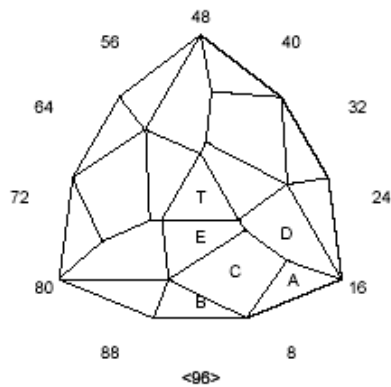
G1	90.00°	02-22-26-46-50-70-74-94	Preform shape
1	43.00°	06-18-30-42-54-66-78-90	CTP
2	60.00°	02-22-26-46-50-70-74-94	Meet 1, Girdle

CROWN

A	36.00°	02-22-26-46-50-70-74-94	Set Girdle thickness
B	32.00°	96-24-48-72	Meet A, Girdle
C	24.00°	96-24-48-72	Meet A, B
T	0.00°	Table	Set width of C

COS Brightness = 58.2 @ RI = 1.54

E:\Dvue2\MyGems\FSC-04.gem



TACA Triangle

by John Bailey, 2006

Angles for R.I. = 1.540

34 + 9 girdles = 43 facets

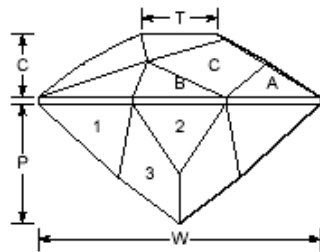
3-fold radial symmetry

96 index

L/W = 1.004 TW = 0.273 U/W = 0.237

P/W = 0.425 C/W = 0.223

Vol./W³ = 0.198



PAVILION

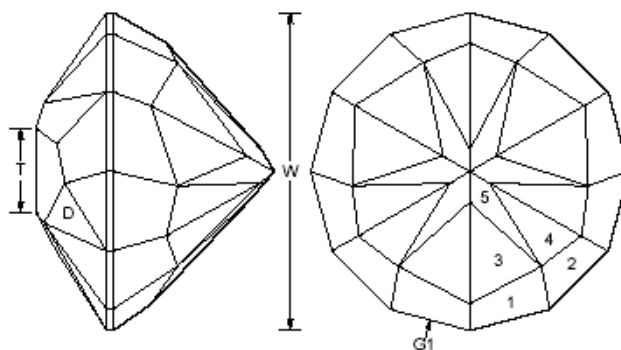
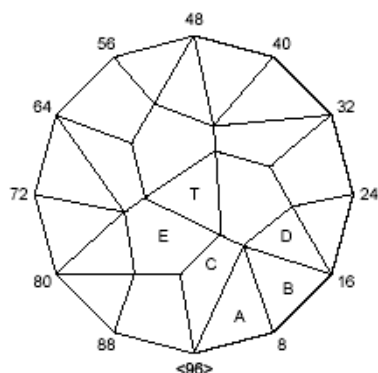
1	45.00°	06-26-38-58-70-90	CTP
2	47.00°	96-32-64	Meet Culet CAM
G1	90.00°	06-26-38-58-70-90	Establish corners
G2	90.00°	96-32-64	Even Girdle
3	43.00°	04-28-36-60-68-92	Meet 1, 2, Girdle

CROWN

A	40.90°	06-26-38-58-70-90	Set Girdle thickness
B	42.90°	96-32-64	Even Girdle
C	34.00°	03-35-67	Meet A, B, Girdle
D	30.70°	23-55-87	Meet A, Girdle
E	24.50°	96-32-64	Meet A, B, C, D
T	0.00°	Table	Meet D, E

COS Brightness = 70.2 @ RI = 1.54

E:\Dvue2\MyGems\TecaTri.gem



Teca 12

by John Bailey, 2006

Angles for R.I. = 1.760

52 + 12 girdles = 64 facets

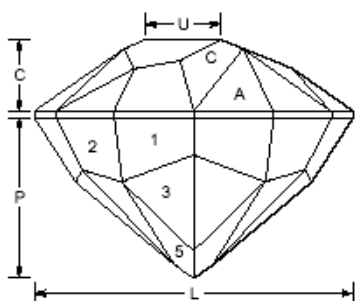
3-fold radial symmetry

96 index

L/W = 1.000 T/W = 0.264 U/W = 0.238

P/W = 0.506 C/W = 0.224

Vol./W³ = 0.250



PAVILION

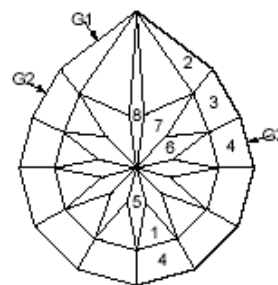
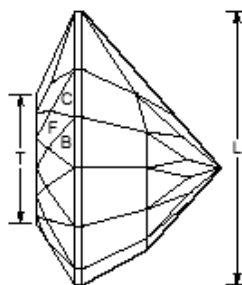
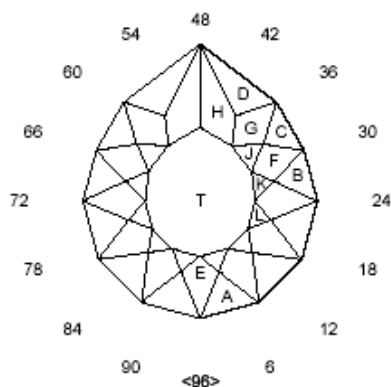
G1	90.00°	04-12-20-28-36-44-52-60-68-76-84-92	Preform 12 sides
1	56.00°	04-28-36-60-68-92	Locate Girdle
2	60.80°	12-20-44-52-76-84	Even Girdle
3	43.50°	02-30-34-62-66-94	2/3 to 3/4 between Girdle and Culet
4	42.00°	14-18-46-50-78-82	Meet 1, 2, 3
5	42.00°	03-29-35-61-67-93	Meet 1, 2, 3, 4

CROWN

A	34.50°	04-28-36-60-68-92	Set girdle thickness
B	37.30°	12-20-44-52-76-84	Even Girdle
C	32.00°	02-34-66	Meet A, Girdle
D	34.20°	18-50-82	Meet B, Girdle
E	21.60°	25-57-89	Meet A, B, D
T	0.00°	Table	Meet C, E

COS Brightness = 71.1 @ 1.76

E:\Dvue2\MyGems\Teca12.gem



Prickly Pear OMNI

by John Bailey, 2006

Angles for R.I. = 1.540

72 + 12 girdles = 84 facets

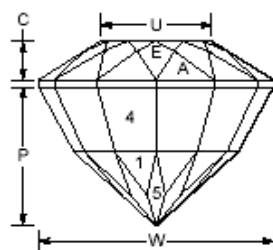
1-fold, mirror-image symmetry

96 index

L/W = 1.170 T/W = 0.550 U/W = 0.471

P/W = 0.591 C/W = 0.165

Vol./W³ = 0.306



PAVILION

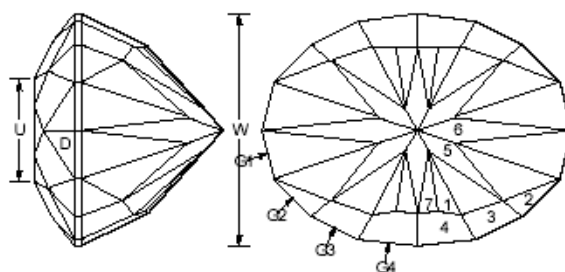
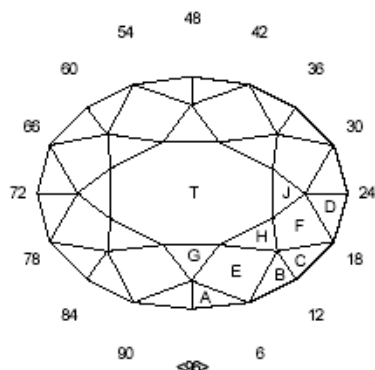
1	44.50°	04-12-20-28-34-42-54-62-68-76-84-92	CTP
G1	90.00°	38-58	Define point of pear
G2	90.00°	32-64	OMNI
G3	90.00°	04-12-20-28-68-76-84-92	OMNI
2	60.00°	38-58	Meet 1, G1
3	61.90°	32-64	Even Girdle
4	62.30°	04-12-20-28-68-76-84-92	Even Girdle
5	42.00°	96-08-16-24-72-80-88	Meet 1, 4
6	42.50°	32-64	Meet 1, 3, 4 and Culet
7	42.80°	41-55	Meet 1, 2, 3 and Culet
8	41.40°	48	Meet 1, 2, Girdle and Culet

CROWN

A	36.00°	04-12-20-76-84-92	Set girdle width
B	36.40°	28-68	Even Girdle
C	37.00°	32-64	Even Girdle
D	34.00°	38-58	Even Girdle
E	32.00°	96-08-16-24-72-80-88	Meet A, Girdle
F	34.50°	30-66	Meet B, C, Girdle
G	32.00°	36-60	Meet C, D, Girdle
H	28.20°	40-56	Meet D, Girdle
J	29.40°	34-62	Meet C, F, G
K	29.00°	26-70	Meet B, E, F
L	26.00°	04-12-20-76-84-92	Meet A, E
T	0.00°	Table	

COS Brightness = 61.6 @ 1.54 RI

E:\Dvue2\MyGems\ppOmni.gem



OMNI Oval 1.33

(The Indigo Oval)

by John Bailey, 2006

Angles for R.I. = 1.540

73 + 16 girdles = 89 facets

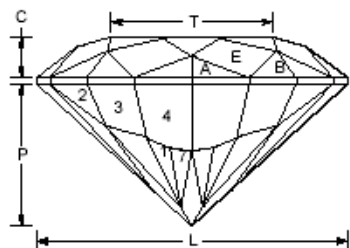
2-fold, mirror-image symmetry

96 index

L/W = 1.332 T/W = 0.695 U/W = 0.439

P/W = 0.610 C/W = 0.170

Vol./W³ = 0.383



PAVILION

1	44.30°	06-09-18-20- 28-30-39-42- 54-57-66-68- 76-78-87-90	CTP
G1	90.00°	20-28-68-76	Calibrate length
G2	90.00°	12-36-60-84	OMNI
G3	90.00°	07-41-55-89	OMNI
G4	90.00°	02-46-50-94	OMNI
2	60.30°	12-36-60-84	Meet 1, G1, G2
3	62.40°	07-41-55-89	Even Girdle
4	63.90°	02-46-50-94	Even Girdle
5	42.00°	96-15-33-48- 63-81	Meet Culet
6	42.50°	24-72	Meet 1, G1 and Culet
7	43.60°	03-45-51-93	Optional - Meet 1, 5, 6 and 4

CROWN

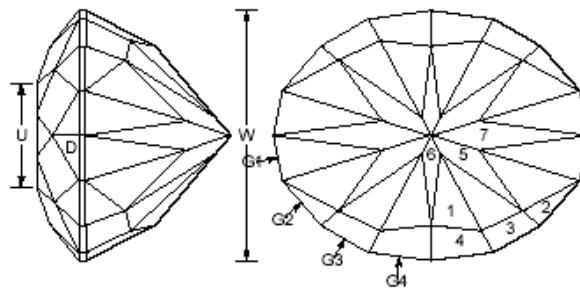
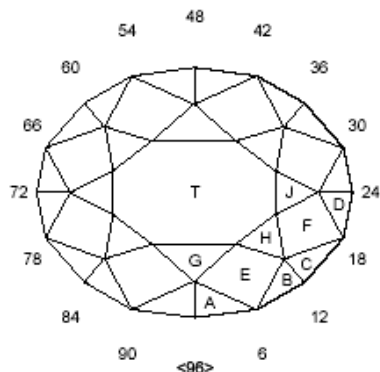
A	38.00°	02-46-50-94	Set girdle thickness
B	38.00°	07-41-55-89	Even Girdle
C	38.00°	12-36-60-84	Even Girdle
D	38.00°	20-28-68-76	Even Girdle
F	31.80°	15-33-63-81	Meet C, D, Girdle
E	32.00°	04-44-52-92	Meet A, B, Girdle
G	25.60°	96-48	Meet A, E
H	23.00°	07-41-55-89	Meet B, C, E, F
J	14.10°	24-72	Meet D, F
T	0.00°	Table	

Good for RI 1.54 and up

COS Brightness = 56.6 @ 1.54 and 69.9 @ 1.76

First cut in Oregon Sunstone as featured on the Travel Channel

E:\Dvue2\MyGems\OO-133.gem



OMNI Oval 1.26

by John Bailey, 2006

Angles for R.I. = 1.540

69 + 16 girdles = 85 facets

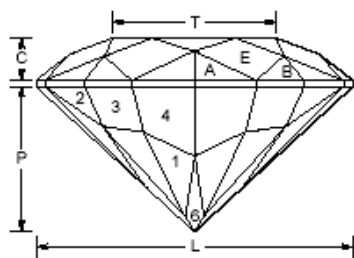
2-fold, mirror-image symmetry

96 index

L/W = 1.260 T/W = 0.649 U/W = 0.415

P/W = 0.580 C/W = 0.170

Vol./W³ = 0.348



PAVILION

1	44.00°	06-09-18-21-27-30-39-42-54-57-66-69-75-78-87-90	CTP
G1	90.00°	21-27-69-75	Calibrate length
G2	90.00°	13-35-61-83	OMNI
G3	90.00°	08-40-56-88	OMNI
G4	90.00°	02-46-50-94	OMNI
2	60.00°	13-35-61-83	Meet 1, G1, G2
3	61.60°	08-40-56-88	Even Girdle
4	63.10°	02-46-50-94	Even Girdle
5	42.00°	16-32-64-80	Meet 1, 2, 3
6	40.20°	96-48	Meet 1, 4, and Culet
7	42.67°	24-72	Meet 1, Girdle and Culet

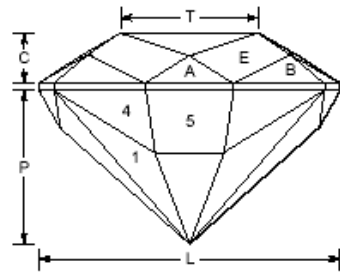
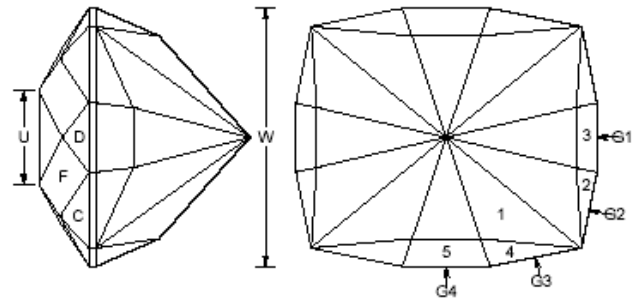
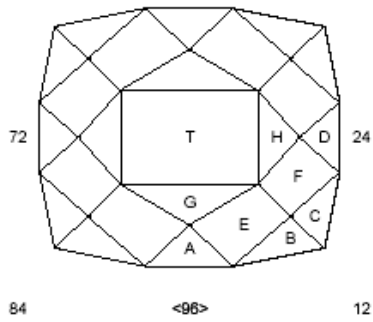
CROWN

A	39.00°	02-46-50-94	Set girdle thickness
B	39.00°	08-40-56-88	Even Girdle
C	39.00°	13-35-61-83	Even Girdle
D	39.00°	21-27-69-75	Even Girdle
E	32.00°	05-43-53-91	Meet A, B, Girdle
F	31.30°	16-32-64-80	Meet C, D, Girdle
G	20.00°	96-48	Meet A, E
H	24.00°	10-38-58-86	Meet B, C, E, F
J	20.50°	24-72	Meet D, F
T	0.00°	Table	

Good for RI 1.54 and up

COS Brightness = 55.2 @ 1.54 and 70.8 @ 1.76

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OMNI Cushion Two

by John Bailey, 2006

Angles for R.I. = 1.540

49 + 12 girdles = 61 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.164 T/W = 0.534 U/W = 0.363

P/W = 0.594 C/W = 0.195

Vol./W³ = 0.395

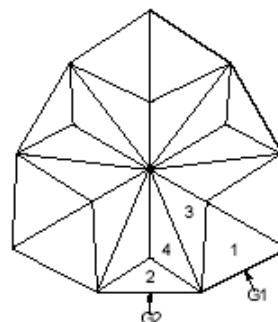
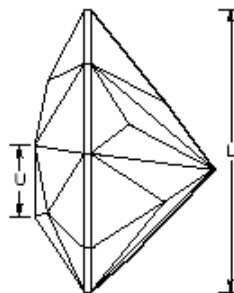
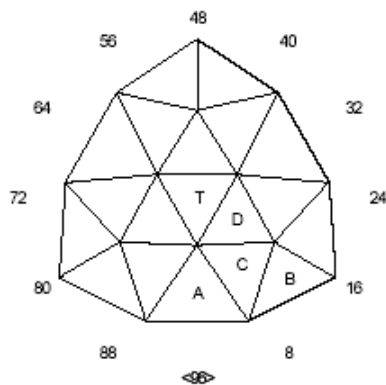
PAVILION

1	42.00°	96-10-17-24-31-38-48-58-65-72-79-86	CTP
G1	90.00°	24-72	Calibrate length
G2	90.00°	21-27-69-75	OMNI
G3	90.00°	03-45-51-93	OMNI
G4	90.00°	96-48	OMNI
2	60.00°	21-27-69-75	Meet 1, Girdle corner
3	60.60°	24-72	Meet 2, G1, G2 and 1, 2
4	65.00°	03-45-51-93	Meet 1, Girdle corner
5	66.00°	96-48	Meet 4, G3, G4 and 1, 4

CROWN

A	33.70°	96-48	Set girdle thickness
B	37.30°	03-45-51-93	Even girdle
C	36.00°	21-27-69-75	Even girdle
D	33.40°	24-72	Even girdle
E	32.00°	01-47-49-95	Meet A, B, Girdle
F	32.00°	23-25-71-73	Meet C, D, Girdle
G	29.00°	96-48	Meet A, E
H	30.00°	24-72	Meet D, F
T	0.00°	Table	Meet E, F, G, H

Good for RI from 1.54 and up
 COS Brightness = 77.8 @ 1.54
 E:\Dvue2\MyGems\OC-02.gem



Trish's Triumph 35

by John Bailey, 2006

Angles for R.I. = 1.540

40 + 9 girdles = 49 facets

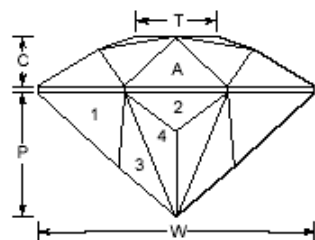
3-fold, mirror-image symmetry

96 index

L/W = 1.020 T/W = 0.290 U/W = 0.251

P/W = 0.448 C/W = 0.178

Vol./W³ = 0.198



PAVILION

G1	90.00°	07-25-39-57-71-89	Locate Corners
G2	90.00°	96-32-64	Complete preform 18 on 7, 19.4 on 0
1	44.00°	07-25-39-57-71-89	CTP
2	49.00°	96-32-64	Even Girdle
3	43.00°	06-26-38-58-70-90	Meet 1, 2, Girdle
4	44.00°	02-30-34-62-66-94	Meet Culet

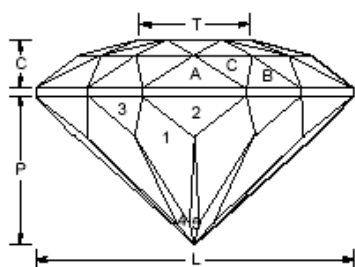
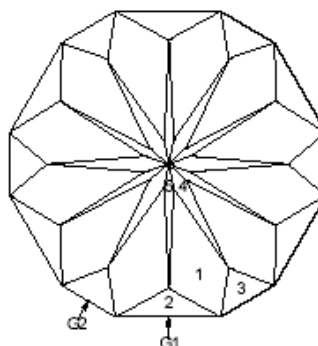
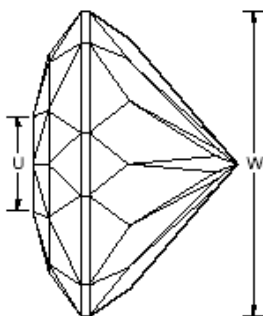
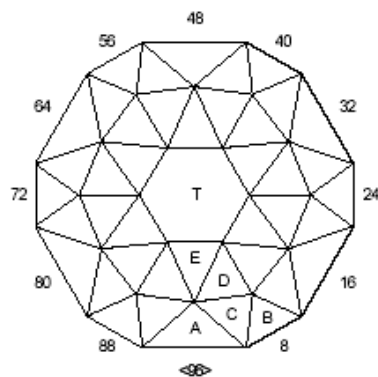
CROWN

A	32.90°	96-32-64	Set girdle width
B	31.80°	07-25-39-57-71-89	Even Girdle
C	29.00°	05-27-37-59-69-91	Meet A, B, Girdle
D	11.00°	16-48-80	Meet B, C
T	0.00°	Table	Meet A, C, D

COS Brightness = 63

CAM Preform 18° on 7; 19.4° on 0

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Six 35

by John Bailey, 2006

Angles for R.I. = 1.540

79 + 12 girdles = 91 facets

6-fold, mirror-image symmetry

96 index

L/W = 1.036 T/W = 0.357 U/W = 0.309

P/W = 0.487 C/W = 0.156

Vol./W³ = 0.241

PAVLION

G1	90.00°	96-16-32-48-64-80	Calibrate Size - Preform CAM 18.6 CTP
G2	90.00°	08-24-40-56-72-88	Preform CAM 18 CTP
1	43.00°	05-11-21-27-37-43-53-59-69-75-85-91	CTP
2	55.00°	96-16-32-48-64-80	Locate Girdle
3	46.80°	08-24-40-56-72-88	Even Girdle
4	42.00°	08-24-40-56-72-88	Meet 1, 3
5	41.00°	96-16-32-48-64-80	Meet 1, 2

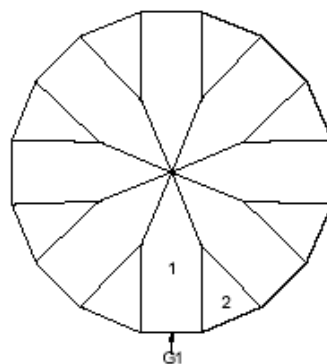
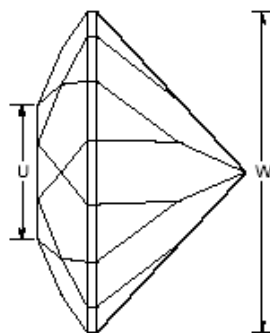
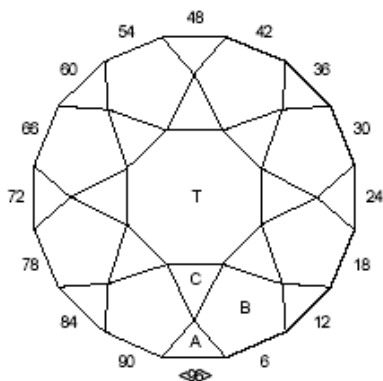
CROWN

A	35.50°	96-16-32-48-64-80	Set girdle width
B	37.00°	08-24-40-56-72-88	Even Girdle
C	32.00°	02-14-18-30-34-46-50-62-66-78-82-94	Meet A, B, Girdle
D	15.50°	02-14-18-30-34-46-50-62-66-78-82-94	Meet A, C and A, B
E	14.50°	96-16-32-48-64-80	Meet A, C, D
T	0.00°	Table	Meet D, E

COS Brightness = 61.4

CAM Preform 18° on 8 and 18.6° on 0

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Short Round 835

by John Bailey, 2006

Angles for R.I. = 1.540

41 + 16 girdles = 57 facets

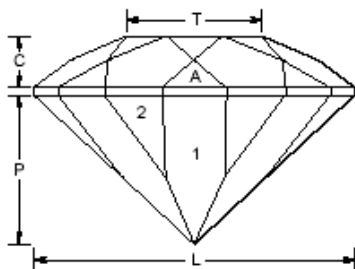
8-fold radial symmetry

96 index

L/W = 1.000 T/W = 0.420 U/W = 0.420

P/W = 0.466 C/W = 0.158

Vol./W³ = 0.219



PAVILION

G1	90.00°	96-06-12-18-24-30-36-42-48-54-60-66-72-78-84-90
1	43.00°	96-12-24-36-48-60-72-84
2	45.00°	06-18-30-42-54-66-78-90

Preform & Calibrate

CTP

Meet 1, Girdle

CROWN

A	36.00°	96-12-24-36-48-60-72-84
B	30.00°	06-18-30-42-54-66-78-90
C	23.00°	96-12-24-36-48-60-72-84
T	0.00°	Table

Set girdle width

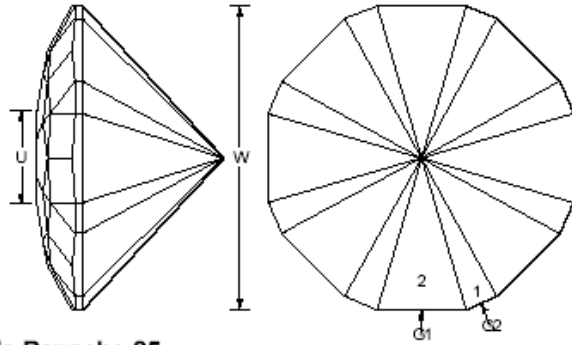
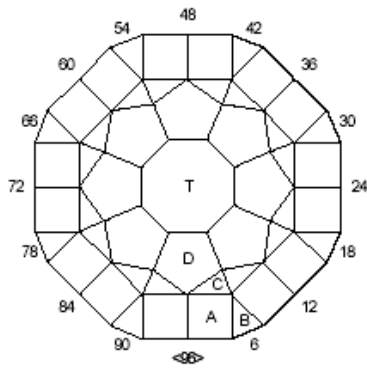
Even Girdle

Meet A, B

Meet B, C

COS Brightness = 46

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Pam's Panache 85

by John Bailey, 2006

Angles for R.I. = 1.540

65 + 16 girdles = 81 facets

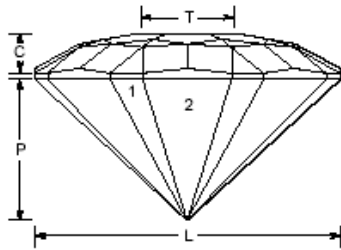
8-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.308 U/W = 0.308

P/W = 0.466 C/W = 0.131

Vol./W³ = 0.210



PAVILION

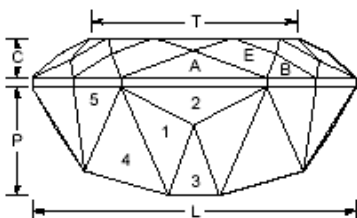
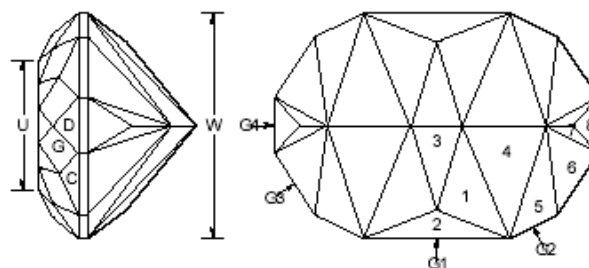
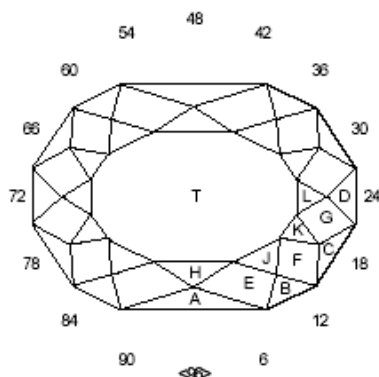
1	42.00°	06-18-30-42-54-66-78-90	CTP
2	43.00°	96-12-24-36-48-60-72-84	Meet Culet
G1	90.00°	96-12-24-36-48-60-72-84	Calibrate Size
G2	90.00°	06-18-30-42-54-66-78-90	Even Girdle

CROWN

A	30.20°	02-10-14-22-26-34-38-46-50-58-62-70-74-82-86-94	Set Girdle width
B	32.00°	06-18-30-42-54-66-78-90	Even Girdle
C	16.20°	04-08-16-20-28-32-40-44-52-56-64-68-76-80-88-92	Meet A, B
D	10.00°	96-12-24-36-48-60-72-84	Meet A, C
T	0.00°	Table	Make pentagons

COS Brightness = 77.1

E:\Dvue2\MyGems\New Folder\PP85.gem



Houseki II

by John Bailey, 2005

Angles for R.I. = 1.620

63 + 12 girdles = 75 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.437 T/W = 0.911 U/W = 0.580

P/W = 0.484 C/W = 0.180

Vol./W³ = 0.452

PAVILION

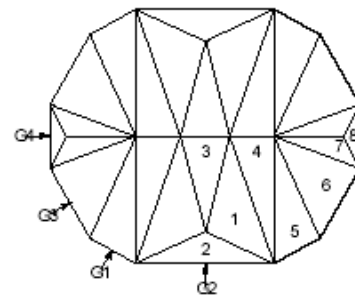
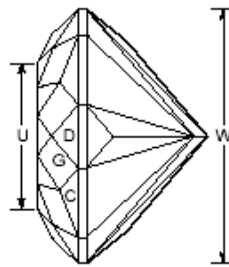
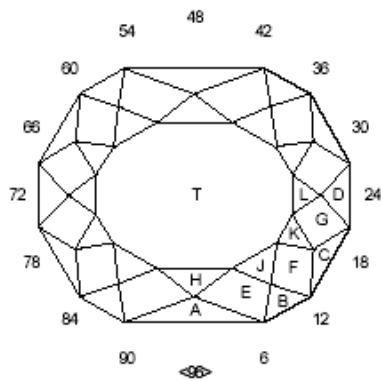
G1	90.00°	96-48	Calibrate width
G2	90.00°	07-41-55-89	Meet A, B, G1
1	42.30°	03-45-51-93	Meet G1, G2 - CTP
2	53.50°	96-48	Meet 1, G1, G2
3	40.00°	96-48	Meet 1, 2
4	41.80°	05-43-53-91	Meet 1, 2, G1, G2
5	45.00°	07-41-55-89	Meet 1, 2, 4, G1, G2
6	55.20°	15-33-63-81	Meet 4, 5
7	56.80°	22-26-70-74	Meet 4, 5, 6
G3	90.00°	15-33-63-81	Meet 5, 6, G2
G4	90.00°	24-72	Meet 6, 7
8	60.00°	24-72	Meet 5, 6, G3, G4

CROWN

A	51.30°	96-48	Set girdle width
B	42.30°	07-41-55-89	Even girdle
C	43.00°	15-33-63-81	Even girdle
D	41.50°	24-72	Even girdle
E	37.40°	03-45-51-93	Meet A, B, Girdle
F	35.00°	12-36-60-84	Meet B, C, Girdle
G	34.60°	18-30-66-78	Meet C, D, Girdle
H	27.40°	96-48	Meet A, E
J	27.60°	07-41-55-89	Meet B, E, F
K	31.90°	15-33-63-81	Meet C, F, G
L	25.70°	24-72	Meet D, G
T	0.00°	Table	

Use preform hc2-pre

E:\Dvue2\MyGems\Houseki2.gem



Houseki Cushion

by John Bailey, 2005

Angles for R.I. = 1.620

63 + 12 girdles = 75 facets

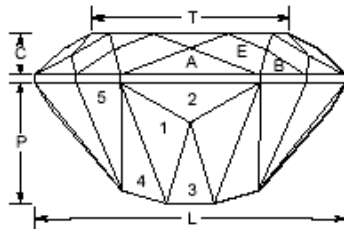
2-fold, mirror-image symmetry

96 index

L/W = 1.215 T/W = 0.767 U/W = 0.576

P/W = 0.473 C/W = 0.163

Vol./W³ = 0.342



PAVILION

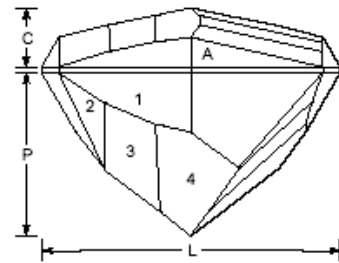
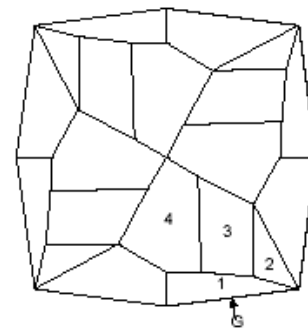
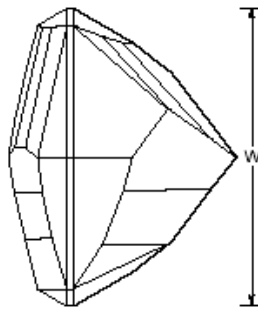
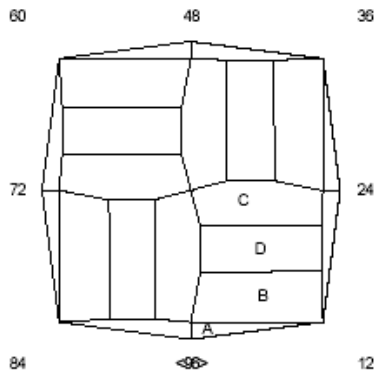
G1	90.00°	08-40-56-88	
G2	90.00°	96-48	
1	42.00°	03-45-51-93	Meet A, B, G1, G2 of preform
2	51.70°	96-48	Meet 1, G1, G2
3	40.00°	96-48	Meet 1, 2
4	41.70°	05-43-53-91	Meet 1, G1, G2
5	44.20°	08-40-56-88	Meet 1, 2, 4, G1, G2
6	49.90°	16-32-64-80	Meet 4, 5
7	49.60°	20-28-68-76	Meet 4, 5, 6
G3	90.00°	16-32-64-80	Meet 5, 6, G1
G4	90.00°	24-72	Meet 6, 7, G3
8	60.00°	24-72	Meet 6, 7, G3, G4

CROWN

A	46.60°	96-48	Fix girdle width
B	40.60°	08-40-56-88	Even girdle
C	43.80°	16-32-64-80	Even girdle
D	43.00°	24-72	Even girdle
E	35.00°	03-45-51-93	Meet A, B, Girdle
F	34.60°	13-35-61-83	Meet B, C, Girdle
G	35.60°	19-29-67-77	Meet C, D, Girdle
H	26.90°	96-48	Meet A, E
J	26.00°	08-40-56-88	Meet B, E, F
K	32.00°	16-32-64-80	Meet C, F, G
L	27.40°	24-72	Meet G, D
T	0.00°	Table	

use preform hc-pre.gem

E:\Dvue2\MyGems\Houseki.gem



Monkey's Fist #2

by John Bailey, 2005

Angles for R.I. = 1.540

40 + 8 girdles = 48 facets

4-fold radial symmetry

96 index

L/W = 1.000

P/W = 0.545 C/W = 0.198

Vol./W³ = 0.300

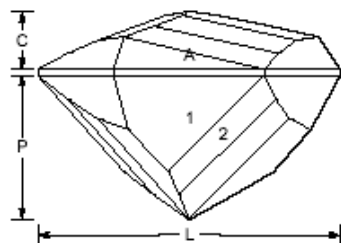
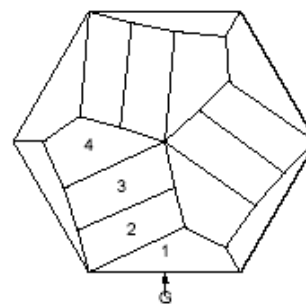
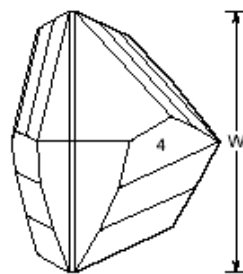
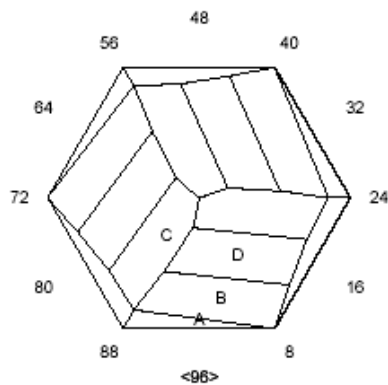
PAVILION

1	60.00°	02-22-26-46- 50-70-74-94	CTP or even depth
G	90.00°	02-22-26-46- 50-70-74-94	Even girdle
2	45.00°	07-31-55-79	Meet 1, G
3	43.50°	05-29-53-77	Meet 1, 2
4	43.00°	04-28-52-76	

CROWN

A	60.00°	02-22-26-46- 50-70-74-94	Even girdle
B	20.30°	10-34-58-82	Meet A, G
C	14.50°	16-40-64-88	Meet A, B
D	17.60°	12-36-60-84	Divide B, C, D into even thirds

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Delirious

by John Bailey, 2005

Angles for R.I. = 1.540

30 + 6 girdles = 36 facets

3-fold radial symmetry

96 index

L/W = 1.155

P/W = 0.552 C/W = 0.221

Vol./W³ = 0.325

PAVILION

1	65.00°	96-16-32-48-64-80	CTP or even depth
G	90.00°	96-16-32-48-64-80	Calibrate size
2	44.90°	21-53-85	Meet 1, G
3	44.10°	20-52-84	
4	43.00°	18-50-82	Meet @ culet

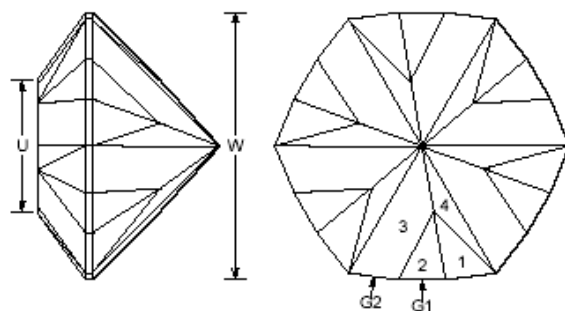
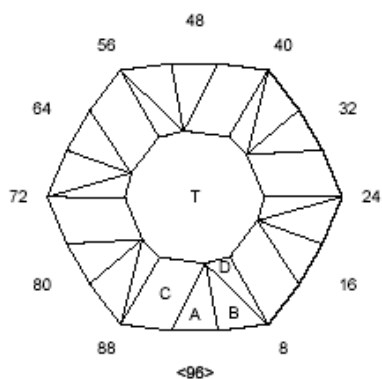
CROWN

A	60.00°	96-16-32-48-64-80	Even girdle
B	24.40°	06-38-70	Meet A, G
C	14.80°	13-45-77	Meet A, B
D	22.10°	07-39-71	Divide B, C, D evenly

2005 Member's Choice Design Award

COS Brightness = 44

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Turbinator

by John Bailey, 2005

Angles for R.I. = 1.540

49 + 18 girdles = 67 facets

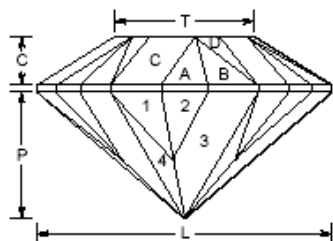
6-fold radial symmetry

96 index

L/W = 1.098 T/W = 0.519 U/W = 0.496

P/W = 0.472 C/W = 0.180

Vol./W³ = 0.241



PAVILION

1	44.20°	02-18-34-50-66-82	CTP
2	44.60°	96-16-32-48-64-80	CAM - Meet at culet
G1	90.00°	96-16-32-48-64-80	Calibrate size
G2	90.00°	02-14-18-30-34-46-50-62-66-78-82-94	Even girdle
3	43.00°	14-30-46-62-78-94	Meet 2, G1, G2 - new culet
4	41.70°	04-20-36-52-68-84	Meet 1, G2 and meet at culet

CROWN

A	35.50°	96-16-32-48-64-80	Set girdle width
B	35.10°	02-18-34-50-66-82	Even girdle
C	34.00°	14-30-46-62-78-94	Even girdle
D	32.70°	04-20-36-52-68-84	Meet girdle
T	0.00°	Table	Meet A, B, C, D

2005 Member's Choice Design Award

COS Brightness = 49.5

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