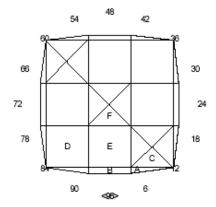
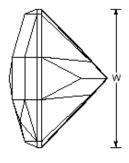
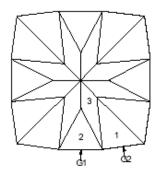
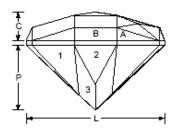
Original Gem Faceting Designs and Certificate of Design Program by John Bailey

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





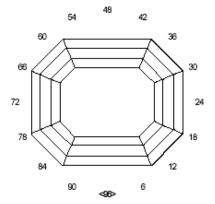


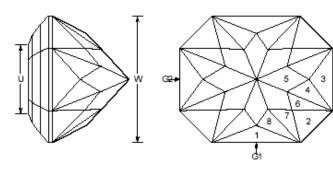


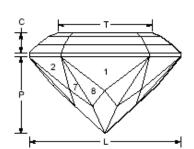
Tic Tac Top
by John Bailey, 2004
Angles for R.I. = 1.540
50 + 12 girdles = 62 facets
2-fold, mirror-image symmetry
96 index
L/W = 1.000
P/W = 0.475 C/W = 0.205
Vol./W³ = 0.289

PAVILION						
1	43.00°	02-22-26-46- 50-70-74-94	CTP			
2	43.90°	96-24-48-72	CTP			
G1	90.00°	96-24-48-72	Calibrate size			
G2	90.00°	02-22-26-46- 50-70-74-94	Even girdle			
3	43.00°	01-23-25-47- 49-71-73-95	Meet 1, 2, G1, G2			
CROV	٧N					
Α	66.40°	02-22-26-46- 50-70-74-94	Set girdle thickness			
В	66.20°	96-24-48-72	Even girdle			
C	31.00°	08-16-56-64	Meet A, G1			
D	23.00°	36-84	Meet A, G1			
Е	16.70°	96-24-48-72	Meet A, B, C and A, B, D			
F	8.00° 17.25°	96-24-48-72 04-20-52-68	Meet D, E			

If cutting concave mains, cut on index of 3, reduce main angle by \sim 1 degree. E:\Dvue2\tictactop.gem







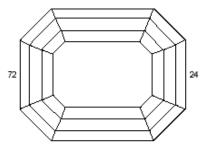
ECED meetpoint Radiant 1.20

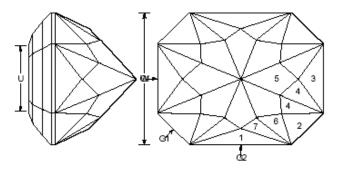
by John Bailey, 2004
Angles for R.I. = 1.540
57 + 8 girdles = 65 facets
2-fold, mirror-image symmetry
96 index
L/W = 1.200 T/W = 0.745 U/W = 0.546
P/W = 0.606 C/W = 0.154
Vol./W³ = 0.397

PAVIL	ION			CROWN	
G1	90.00°	96-48	Set width (calibrate)	42.00°	96-48
G2	90.00°	12-24-36-60- 72-84	Set length (calibrate) ECED	42.00°	12-24-36-60- 72-84
1	63.00°	96-48	Locate girdle	37.00° 37.00°	96-48 12-24-36-60-
2	48.70°	12-36-60-84	Level girdle	37.00	72-84
3	49.90°	24-72	Level girdle	20.00°	96-48
4	45.50°	22-26-70-74	Meet 2, 3, girdle	20.00°	12-24-36-60-
5	43.00°	96-12-24-36- 48-60-72-84	Meeet 3, 4 and CTP	0.00°	72-84 Table
6	45.50°	14-34-62-82	Meet 2, 3, 4, girdle		
7	46.80°	10-38-58-86	Meet 2, 5, 6 and 1, 2, girdle		
8	50.28°	04-44-52-92	Meet 1, 5 and 1, 2, 7, girdle		

E:\Dvue2\MyGems\MyRad120.gem

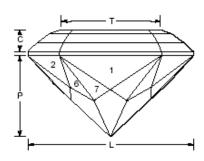






84 <98> 12

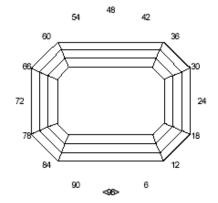
ECED meetpoint Radiant 1.25

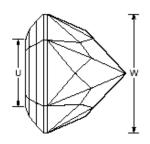


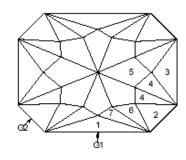
by John Bailey, 2004
Angles for R.I. = 1.540
57 + 8 girdles = 65 facets
2-fold, mirror-image symmetry
96 index
L/W = 1.250 T/W = 0.748 U/W = 0.498
P/W = 0.611 C/W = 0.167
Vol./W^a = 0.423

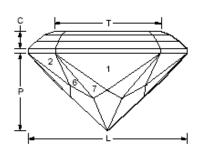
PAVIL	ION			CROWN	
G2	90.00°	96-48	Set width (calibrate)	42.00°	96-48
G1	90.00°	12-24-36-60- 72-84	Set length (calibrate) ECED	42.00°	12-24-36-60- 72-84
1	64.70°	96-48	Locate girdle	37.00°	96-48
			•	37.00°	12-24-36-60-
2	46.60°	12-36-60-84	Even girdle		72-84
3	47.20°	24-72	Even girdle	20.00°	96-48
4	44.80°	13-23-25-35- 61-71-73-83	Meet 2, 3, Girdle	20.00°	12-24-36-60- 72-84
5	43.00°	96-12-24-36- 48-60-72-84	Meet 3, 4 - CTP	0.00°	Table
6	45.73°	11-37-59-85	Meet 2, 4, 5 and 1, 2, girdle		
7	53.00°	03-45-51-93	Meet 1, 5 and 1, 2, 6, girdle		

E:\Dvue2\MyGems\MyRad125.gem







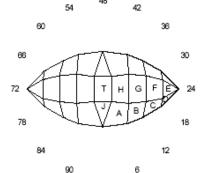


ECED meetpoint Radiant 1.33

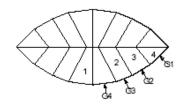
by John Bailey, 2004
Angles for R.I. = 1.540
57 + 8 girdles = 65 facets
2-fold, mirror-image symmetry
96 index
L/W = 1.330 T/W = 0.895 U/W = 0.565
P/W = 0.650 C/W = 0.145
Vol./W³ = 0.478

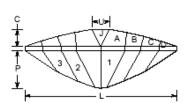
PAVIL	ION			CROWN	
G1	90.00°	96-48	Set width (calibrate)	42.00°	96-48
G2	90.00°	12-24-36-60- 72-84	Set length (calibrate) ECED	42.00°	12-24-36-60- 72-84
1	66.30°	96-48	Locate girdle	37.00° 37.00°	96-48 12-24-36-60-
2	46.30°	12-36-60-84	Level girdle	37.00	72-84
3	47.00°	24-72	Level girdle	20.00°	96-48
4	44.70°	13-23-25-35- 61-71-73-83	Meet 2,3, girdle	20.00°	12-24-36-60- 72-84
5	43.00°	96-12-24-36- 48-60-72-84	Meet 3, 4, CTP	0.00°	Table
6	45.77°	11-37-59-85	Meet 2, 4, 5, and 1, 2, girdle		
7	54.71°	03-45-51-93	Meet 1, 5, and 1, 2, 6, girdle		

E:\Dvue2\MyGems\MyRad133.gem







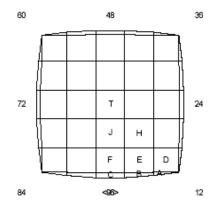


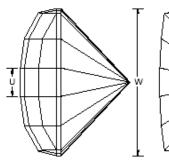
BugBody

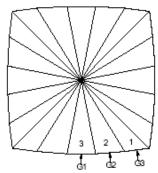
by John Bailey, 2004
Angles for R.I. = 1.540
43 + 16 girdles = 59 facets
2-fold, mirror-image symmetry
96 index
L/W = 1.995 T/W = 0.333 U/W = 0.233
P/W = 0.496 C/W = 0.227
Vol./W^a = 0.470

PREFORM		CROWN					
P1	35.10°	12-36-60-84	CTP	Α	35.80°	02-46-50-94	Set girdle thickness
P2	40.30°	08-40-56-88	CTP	В	38.50°	06-42-54-90	Even girdle
P3	42.30°	06-42-54-90	CTP	С	41.50°	08-40-56-88	Even girdle
P4	45.00°	02-46-50-94	CTP	D	50.00°	12-36-60-84	Even girdle
G1	90.00°	12-36-60-84	Calibrate length	E	19.00°	24-72	Meet D, G1
G2	90.00°	08-40-56-88	Even girdle	F	16.00°	24-72	Meet C, D, E
G3	90.00°	06-42-54-90	Even girdle	G	13.00°	24-72	Meet B, C, F
G4	90.00°	02-46-50-94	Even girdle	Н	10.00°	24-72	Meet A, B, G
PAVIL	JON			J	34.30°	96-48	Meet A, G4
1	45.00°	50-94	Cut small keel	Т	0.00°	Table	Meet A, J, H
2	43.30°	06-42-54-90	Meet 1, G4, G3				
3	43.00°	08-40-56-88	Meet 2, G3, G2				
4	42.80°	12-36-60-84	Meet 3, G2, G1				

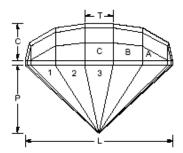
For designs that use a Marquis stone as the body of a bug. E:\Dvue2\MyGems\bugbody.gem







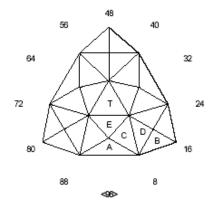
Gimme Five

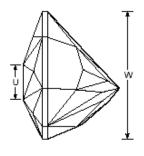


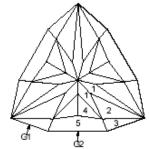
by John Bailey, 2004
Angles for R.I. = 1.540
65 + 20 girdles = 85 facets
4-fold, mirror-image symmetry
96 index
L/W = 1.000 T/W = 0.192 U/W = 0.192
P/W = 0.466 C/W = 0.246
Vol./W³ = 0.337

PAVILION			CROWN				
1	41.80°	02-22-26-46- 50-70-74-94	CTP	Α	76.70°	02-22-26-46- 50-70-74-94	Set girdle thickness.
2	42.70°	01-23-25-47- 49-71-73-95	CTP	В	76.60°	01-23-25-47- 49-71-73-95	Even girdle.
3	43.00°	96-24-48-72	CTP	С	76.60°	96-24-48-72	Even girdle.
G1	90.00°	96-24-48-72	Calibrate size.	D	38.00°	12-36-60-84	Meet A, G1.
G2	90.00°	01-23-25-47- 49-71-73-95	Even girdle.	E	29.80°	04-20-28-44- 52-68-76-92	Meet A, B, D.
СЗ	90.00°	02-22-26-46-	Even girdle.	F	28.90°	96-24-48-72	Meet B, C, E.
		50-70-74-94		Н	12.00°	12-36-60-84	Meet D, E.
				J	8.60°	96-24-48-72	Meet E, F, H.
				Т	0.00°	Table	Meet H. J.

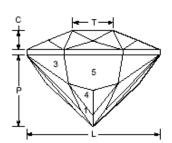
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Tom's Hopscotch Triangle

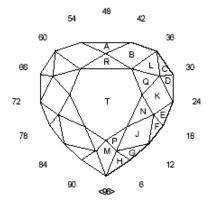


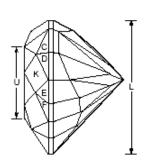
by John Bailey, 2003 Angles for R.I. = 1.540 55 + 9 girdles = 64 facets 3-fold, mirror-image symmetry 96 index L/W = 1.041 T/W = 0.317 U/W = 0.275 P/W = 0.561 C/W = 0.152 Vol./W³ = 0.236

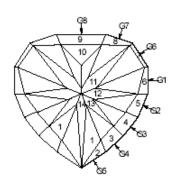
PAYLION

1	43.00°	07-16-25-39-48-57- 71-80-89	CTP
		7 1-00-09	
G1	90.00°	05-27-37-59-69-91	Establish comers
2	44.70°	12-20-44-52-76-84	Meet 1, G1
3	65.80°	05-27-37-59-69-91	Meet 1, 2, G1
4	48.00°	02-30-34-62-66-94	Meet 1, 2, 3
5	67.30°	96-32-64	Meet 1, 2, 3, 4
G2	90.00°	96-32-64	Even girdle - Meet 3, 5
CRO\	۸N		
Α	28.50°	96-32-64	Set girdle width
В	27.30°	05-27-37-59-69-91	Even girdle
C	26.00°	01-31-33-63-65-95	Meet A, B, G1, G2
D	25.70°	04-28-36-60-68-92	Meet A, B, C
Ε	24.60°	96-32-64	Meet A, C, and C, D
Т	0.00°	Table	Meet C, D, E

In loving memory of Dr. Tom Walker 01/10/1934 - 04/29/2003 E:\Dvue2\MyGems\HOPSCOCH.GEM









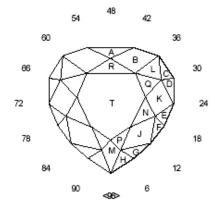
Trish's Omni Heart

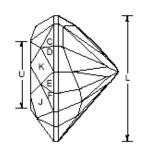
by John Bailey, 2003
(Happy Anniversary, Trish)
Angles for R.I. = 1.540
69 + 15 girdles = 84 facets
1-fold, mirror-image symmetry
96 index
L/W = 1.009 T/W = 0.548 U/W = 0.537
P/W = 0.525 C/W = 0.180
Vol./W^a = 0.271

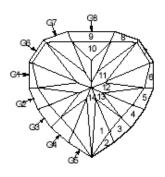
PAVIL	PAVILION					
1	44.30°	03-09-15-21- 27-33-39-45- 51-57-63-69- 75-81-87-93	CTP as in SRB			
G1	90.00°	24-72	Establish size			
Œ	90.00°	18-78	Meet 1, G1 - OMNI			
G3	90.00°	14-82	Meet 1, G2 - OMNI			
G4	90.00°	11-85	Meet 1, G3 - OMNI			
G5	90.00°	09-87	Meet 1, G4 - OMNI			
G6	90.00°	33-63	Meet 1, G1 - OMNI			
G7	90.00°	43-53	Meet 1, G6 - OMNI			
G8	90.00°	48	Meet 1, G7 - OMNI			
2	61.70°	09-87	Meet 1, G5 - Start level girdle			
3	62.60°	11-85	Meet 1, G4, G5 - Even girdle			
4	62.80°	14-82	Meet 1, G3, G4 - Even girdle			
5	62.00°	18-78	Meet 1, G2, G3 - Even girdle			
6	60.10°	24-72	Meet 1, G1, G2 - Even girdle			
7	58.50°	33-63	Meet 1, G1, G6 - Even girdle			
8	60.60°	43-53	Meet 1, G6, G7 - Even girdle			
9	62.50°	48	Meet 1, G7, G8 - Even girdle			
10	49.00°	48	Meet 1, 8, 9			
11	43.00°	36-60	Meet 1, 7, 8			
12	43.00°	24-72	Meet 1, 5, 6 and culet point			
13	43.00°	12-84	Meet 1, 3, 4 and culet point			
14	43.30°	96	Meet 1, 2, G5 and culet point			

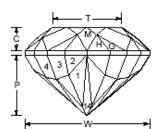
CROWN					
Α	57.20°	48	Set girdle thickness		
Е	43.40°	43-53	Even girdle		
C	46.60°	33-63	Even girdle		
С	44.30°	24-72	Even girdle		
Е	47.00°	18-78	Even girdle		
F	44.40°	14-82	Even girdle		
G	47.00°	11-85	Even girdle		
Н	48.40°	09-87	Even girdle		
J	41.00°	13-83	Meet F, G, Girdle		
ĸ	38.00°	22-74	Meet D, E, Girdle		
L	38.00°	36-60	Meet B, C, Girdle		
N	34.10°	96	Meet H, Girdle		
N	29.70°	17-79	Meet E, F, J, K		
F	26.30°	09-87	Meet G, H, J, M		
C	26.40°	30-6€	Meet C, D, K, L		
1	0.00°	Table	Meet M, P and J, N, P and K, N, Q and B, L, Q		
R	21.62°	48	Meet B, L, Q, T		

NOTE: Easier / faster than it looks - performs well. E\Dvue2\MyGems\TrishsHeart154.gem









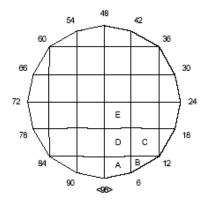
Trish's Omni Heart

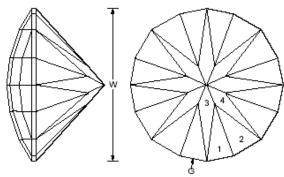
by John Bailey, 2003 (Happy Anniversary, Trish) Angles for R.I. = 1.620 69 + 15 girdles = 84 facets 1-fold, mirror-image symmetry 96 index L/W = 1.009 T/W = 0.549 U/W = 0.539 P/W = 0.489 C/W = 0.193 Vol./W³ = 0.262

PAVILION					
	1	42.30°	03-09-15-21- 27-33-39-45- 51-57-63-69- 75-81-87-93	CTP as in SRB	
	G1	90.00°	24-72	Establish size	
	$^{\odot}$	90.00°	18-78	Meet 1, G1 - OMNI	
	G3	90.00°	14-82	Meet 1, G2 - OMNI	
	G4	90.00°	11-85	Meet 1, G3 - OMNI	
	G5	90.00°	09-87	Meet 1, G4 - OMNI	
	G 6	90.00°	33-63	Meet 1, G1 - OMNI	
	G7	90.00°	43-53	Meet 1, G6 - OMNI	
	G8	90.00°	48	Meet 1, G7 - OMNI	
	2	60.00°	09-87	Meet 1, G5 - Start level girdle	
	3	60.90°	11-85	Meet 1, G4, G5 - Even girdle	
	4	61.10°	14-82	Meet 1, G3, G4 - Even girdle	
	5	60.30°	18-78	Meet 1, G2, G3 - Even girdle	
	6	58.30°	24-72	Meet 1, G1, G2 - Even girdle	
	7	56.70°	33-63	Meet 1, G1, G6 - Even girdle	
	8	59.00°	43-53	Meet 1, G6, G7 - Even girdle	
	9	60.80°	48	Meet 1, G7, G8 - Even girdle	
	10	47.00°	48	Meet 1, 8, 9	
	11	41.00°	36-60	Meet 8, 9, 10	
	12	41.00°	24-72	Meet 1, 7, 8 and culet point	
	13	41.00°	12-84	Meet 1, 5, 6 and culet point	
	14	41.30°	96	Meet 1, 2, G5 and culet point	

CROWN 59.00° Set girdle thickness Even girdle Е 45.40° 43-53 С 48.60° 33-63 Even girdle С 46.30° 24-72 Even girdle Ε 49.00° Even girdle F 14-82 Even girdle 46.40° G 49.00° 11-85 Even girdle Even girdle 50.40° 09-87 Meet F, G, Girdle Meet D, E, Girdle 43.00° 13-83 22-74 40.00° 40.00° 36-60 Meet B, C, Girdle Meet H, Girdle N 36.00° 96 Ν 31.50° 17-79 Meet E, F, J, K Meet G, H, J, M F 28.00° 09-87 C 28.00° 30-6€ Meet C, D, K, L 0.00° Table Meet M, P and J, N, P and K, N, Q and B, Ĺ, Q 22.90° 48 Meet B, L, Q, T

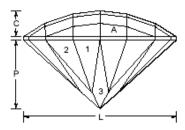
NOTE: Easier / faster than it looks - performs well. E:\Dvue2MyGems\TrishsHeart162.gem





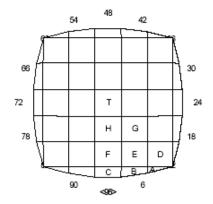
Meet me at 8:00

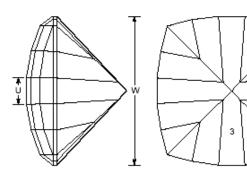
by John Bailey, 2003
Angles for R.I. = 1.540
56 + 16 girdles = 72 facets
4-fold, mirror-image symmetry
96 index
L/W = 1.000
P/W = 0.450 C/W = 0.168
Vol./W³ = 0.198



PAVI	LION		
G	90.00°	03-08-16-21- 27-32-40-45- 51-56-64-69- 75-80-88-93	Cut even girdle
1	43.40°	03-21-27-45- 51-69-75-93	CTP
2	43.60°	08-16-32-40- 56-64-80-88	Cut even girdle
3	42.00°	96-24-48-72	Meet girdle
4	41.60°	12-36-60-84	Meet girdle
CRO	WN		
Α	31.30°	03-21-27-45- 51-69-75-93	Set girdle width
В	34.50°	08-16-32-40- 56-64-80-88	Even girdle
С	25.90°	12-36-60-84	Meet girdle
D	20.00°	05-19-29-43- 53-67-77-91	Meet A, B, C
Ε	9.30°	12-36-60-84	Meet C. D

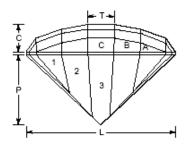
From FVS-338 (64 index) - Straight lines on a 96 index. With deference and gratitude to the late, great Fred Van Sant. E:\Dvue2\MyGems\WeetAt8.gem





ReCheck for Quartz

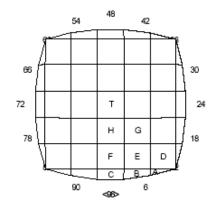
by John Bailey, 2003
Angles for R.I. = 1.540
65 + 20 girdles = 85 facets
4-fold, mirror-image symmetry
96 index
L/W = 1.000 T/W = 0.181 U/W = 0.181
P/W = 0.466 C/W = 0.180
Vol./W³ = 0.261

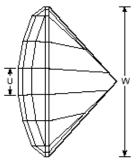


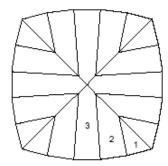
PREFO	PREFORM				CROWN			
1	43.00°	04-20-28-44- 52-68-76-92	CTP	Α	54.60°	04-20-28-44- 52-68-76-92	Set girdle thickness	
PF-1	44.20°	02-22-26-46- 50-70-74-94	CTP	В	53.80°	02-22-26-46- 50-70-74-94	Even girdle	
PF-2	44.60°	96-24-48-72	CTP	С	53.40°	96-24-48-72	Even girdle	
G1	90.00°	96-24-48-72	Calibrate size	D	26.80°	12-36-60-84	Meet A, G3	
G2	90.00°	02-22-26-46- 50-70-74-94	Even girdle	E	21.70°	07-17-31-41- 55-65-79-89	Meet A, B, D	
G3	90.00°	04-20-28-44-	Even girdle	F	19.60°	96-24-48-72	Meet B, C, E	
		52-68-76-92		G	14.00°	12-36-60-84	Meet D, E	
PAVILION				Н	10.00°	96-24-48-72	Meet E, F, G	
2	43.00°	02-22-26-46- 50-70-74-94	Meet 1, G2, G3	Т	0.00°	Table	Meet G, H	
3	43.00°	96-24-48-72	Meet 2, G1, G2					

Note: Revised 2005

E:\Dvue2\MyGems\ReChk154.gem

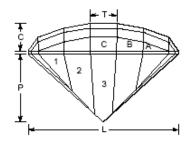






ReCheck for Sapphire

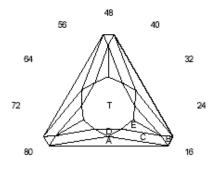
by John Bailey, 2003
Angles for R.I. = 1.760
65 + 20 girdles = 85 facets
4-fold, mirror-image symmetry
96 index
L/W = 1.000 T/W = 0.181 U/W = 0.181
P/W = 0.450 C/W = 0.180
Vol./W^a = 0.256



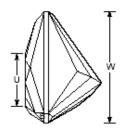
PREFORM				CROWN			
1	42.00°	04-20-28-44- 52-68-76-92	CTP	Α	54.60°	04-20-28-44- 52-68-76-92	Set girdle thickness
PF-1	43.20°	02-22-26-46- 50-70-74-94	CTP	В	53.80°	02-22-26-46- 50-70-74-94	Even girdle
PF-2	43.60°	96-24-48-72	CTP	С	53.40°	96-24-48-72	Even girdle
G1	90.00°	96-24-48-72	Calibrate size	D	26.80°	12-36-60-84	Meet A, G3
G2	90.00°	02-22-26-46- 50-70-74-94	Even girdle	Е	21.70°	07-17-31-41- 55-65-79-89	Meet A, B, D
СЗ	90.00°	04-20-28-44-	Even girdle	F	19.60°	96-24-48-72	Meet B, C, E
		52-68-76-92		G	14.00°	12-36-60-84	Meet D, E
PAVILIC	NC			Н	10.00°	96-24-48-72	Meet E, F, G
2	42.00°	02-22-26-46- 50-70-74-94	Meet 1, G2, G3	T	0.00°	Table	Meet G, H
3	42.00°	96-24-48-72	Meet 2, G1, G2				

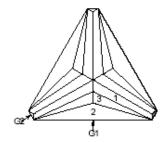
Note: Revised 2005

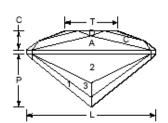
E:\Dvue2\MyGems\ReChk176.gem



8







88

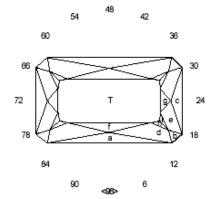
Hari-Peri

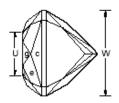
by John Bailey, 2003 Angles for R.I. = 1.670 40 + 6 girdles = 46 facets 3-fold, mirror-image symmetry 96 index L/W = 1.155 T/W = 0.478 U/W = 0.465 P/W = 0.477 C/W = 0.172 Vol./W³ = 0.217

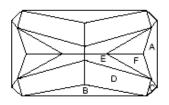
PAVILION

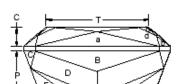
1	43.00°	05-27-37-59-69-91	CTP
G1	90.00°	96-32-64	Fix Size
G2	90.00°	16-48-80	Cut comers
2	60.00°	96-32-64	Meet 1, G1, G2
3	50.00°	02-30-34-62-66-94	Meet 1, 2, G1, G2
4	60.00°	16-48-80	Meet 1, 2, 3, G1, G2
CROV	۸N		
Α	57.00°	96-32-64	Set girdle width
В	40.00°	16-48-80	Even girdle
С	40.00°	02-30-34-62-66-94	Meet A, B, Girdle
D	33.00°	96-32-64	Meet A, C
E	19.00°	10-22-42-54-74-86	Meet B, C
T	0.00°	Table	Meet C, D, E

You can CAM preform a 25 i 0; a 15 i 16, though not critical. E:\Dvue2\MyGems\HARIPERI.GEM







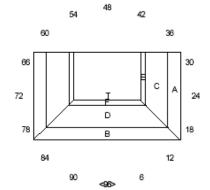


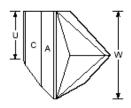
Green #3 for closed C Tourmaline

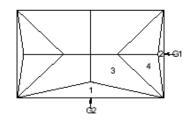
by John Bailey, 2003
Angles for R.I. = 1.630
49 + 8 girdles = 57 facets
2-fold, mirror-image symmetry
96 index
L/W = 1.708 T/W = 1.200 U/W = 0.518
P/W = 0.600 C/W = 0.218
Vol./W^a = 0.803

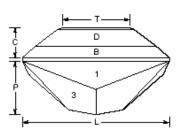
PAVI	LION		
	90.00°	24-72	
	90.00°	96-48	
Α	70.00°	24-72	Cut end facet
В	60.00°	96-48	Cut to blade.
С	60.00°	11-37-59-85	Meet A, B to set comer symmetry.
	90.00°	11-37-59-85	
D	46.00°	02-46-50-94	Meet B, C.
Ε	42.00°	03-45-51-93	Meet tip of C.
F	40.00°	04-44-52-92	Meet tip of C.
CRO\	ΛN		
а	55.00°	96-48	Cut even girdle
b	43.00°	11-37-59-85	Cut even girdle
С	44.00°	24-72	Cut even girdle.
d	39.00°	02-46-50-94	Meet girdle, a, b
е	39.00°	23-25-71-73	Meet girdle, b, c
1	20.00°	96-48	Meet a, d
g	36.78°	24-72	Meet e, c
h	36.00°	03-45-51-93	meet tip of b
i	36.00°	22-26-70-74	Meet tip of b.
T	0.00°	Table	Meet d, f, h and e, g, i.

E:\Dvue2\MyGems\GREEN3.GEM









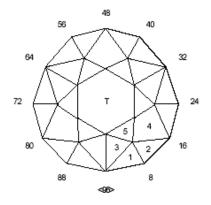
CatManToo

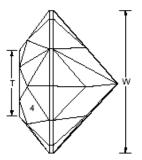
by John Bailey, 2004
Angles for R.I. = 1.540
21 + 4 girdles = 25 facets
2-fold, mirror-image symmetry
96 index
L/W = 1.663 T/W = 0.761 U/W = 0.549
P/W = 0.609 C/W = 0.341
Vol./W^a = 0.846

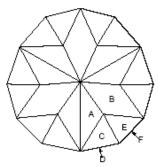
PAVII	
PAVII	עונאו

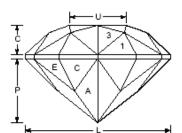
G1	90.00°	24-72	Set finished stone width
G2	90.00°	96-48	Set fnished stone length
1	60.00°	96	Set girdle location
2	65.00°	24-72	Even girdle
3	43.00°	03-45-51-93	Meet G1, G2, 1, 2
4	42.00°	21-27-69-75	Meet 1, 2, 3, G1, G2
CRO\	۸N		
Α	42.00°	24-72	Set girdle width (both stones)
В	42.00°	96	Even girdle (both stones)
С	37.00°	24-72	Set mains width (both stones)
D	37.00°	96	Meet A, B, C (both stones)
Т	0.00°	Table	Cut table (both stones)
E	20.00°	24-72	Set star width (both stones)
F	20.00°	96	Even star facets (both stones)

Designed to fill a 12 x 10 ring setting with reduced pavilion depth. Cut a matched pair of these 10 x 6 mm. E:\Dvue2\MyGems\CatManToo.gem









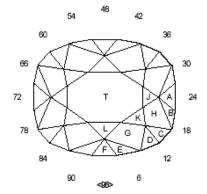
Lucky Lois

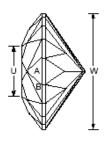
by John Bailey, 2004
Angles for R.I. = 1.540
49 + 12 girdles = 61 facets
3-fold, mirror-image symmetry
96 index
L/W = 1.019 T/W = 0.458 U/W = 0.396
P/W = 0.447 C/W = 0.207
Vol./W^a = 0.235

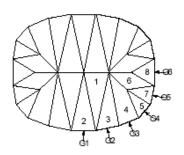
PAM	

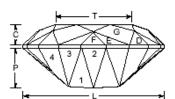
Α	42.70°	01-31-33-63-65-95	Cut to point.
В	41.00°	16-48-80	Meet at culet.
С	45.80°	03-29-35-61-67-93	Set diameter.
D	90.00°	03-29-35-61-67-93	Meet A, C.
Е	45.70°	12-20-44-52-76-84	Meet A, B, C.
F	90.00°	12-20-44-52-76-84	Cut even girdle.
CRO	WN		
1	43.40°	03-29-35-61-67-93	Set girdle width.
2	43.00°	12-20-44-52-76-84	Cut even girdle.
3	38.90°	01-31-33-63-65-95	Meet 1, girdle.
4	36.00°	16-48-80	Meet 2, girdle.
5	21.00°	08-24-40-56-72-88	Meet 1, 2, 3, 4.
T	0.00°	Table	Meet 3, 5, and 4, 5.

For Mom - Happy Mother's Day, 2004 C:\Dvue2\MyGems\2submit\LL.gem







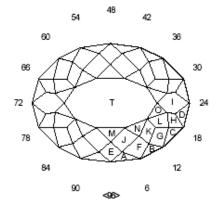


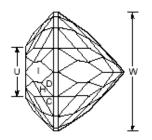
Custom Cushion

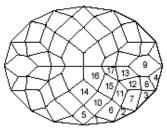
by John Bailey, 2003
Angles for R.I. = 2.000
65 + 20 girdles = 85 facets
2-fold, mirror-image symmetry
96 index
L/W = 1.211 T/W = 0.655 U/W = 0.432
P/W = 0.344 C/W = 0.175
Vol./W³ = 0.282

PAVIL	NOL			CRON	MΝ		
1	34.00°	02-46-50-94	CTP	Д	41.80°	24-72	Even girdle
G1	90.00°	96-48	Fix Width	В	38.00°	21-27-69-75	Even girdle
2	34.50°	96-48	Meet 1 at culet	С	33.20°	13-35-61-83	Even girdle
3	34.70°	03-45-51-93	Meet 2, G1	D	34.00°	06-42-54-90	Even girdle
G2	90.00°	03-45-51-93	Meet 2, 3, G1	E	34.80°	03-45-51-93	Even girdle
4	35.30°	06-42-54-90	Meet G2, 3	F	38.20°	96-48	Even girdle
ങ	90.00°	06-42-54-90	Meet G2, 3, 4	G	32.00°	04-44-52-92	Meet D, E, girdle
5	38.30°	13-35-61-83	Meet G3, 4	Н	30.00°	17-31-65-79	Meet B, C, girdle
6	39.10°	22-26-70-74	Meet 1, 3, 4	J	19.00°	24-72	Meet A, B
7	39.70°	21-27-69-75	Meet4, 5, 6, and 4, 5, G4	K	20.00°	09-39-57-87	Meet C, D, G, H
G4	90.00°	13-35-61-83	Meet G3, 4, 5	L	24.00°	96-48	Meet E, F, G
G5	90.00°	21-27-69-75	Meet G4, 5, 7	Т	0.00°	Table	
G6	90.00°	24-72	Meet G5, 6, 7				
8	41.00°	24-72	Meet G5, G6, 6, 7				

Angles for RI=2. This stone was custom-designed to fit an existing setting of shallow depth and odd size. Hence, the odd specifications. Original material was Jewel-Lite (RI \sim 2). C:\Dvue2\MyGems\2submit\CC.gem







Sexy Native 1.33

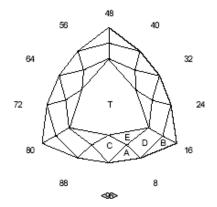
angles for Spodumene by John Bailey 01/25/2004 Angles for R.I. = 1.670 117 + 16 girdles = 133 facets 2-fold, mirror-image symmetry 96 index L/W = 1.329 T/W = 0.784 U/W = 0.419

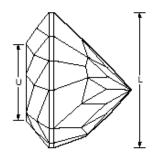
L/W = 1.329 T/W = 0.784 U/W = 0.419 P/W = 0.556 C/W = 0.241 Vol./W³ = 0.443

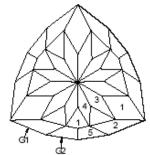
PAVILI	PAMLION				
	90.00°	20-28-68-76			
	90.00°	12-36-60-84			
	90.00°	07-41-55-89			
	90.00°	02-46-50-94			
1	60.30°	02-46-50-94			
2	60.30°	07-41-55-89			
3	60.30°	12-36-60-84			
4	60.30°	20-28-68-76			
5	55.80°	96-48			
6	54.10°	04-44-52-92			
7	55.10°	10-38-58-86			
8	55.10°	16-32-64-80			
9	53.10°	24-72			
10	51.00°	03-45-51-93			
11	50.00°	08-40-56-88			
12	49.10°	13-35-61-83			
13	44.50°	15-33-63-81			
14	44.00°	96-48			
15	46.00°	06-42-54-90			
16	40.00°	02-46-50-94			
17	40.00°	12-36-60-84			

CROV	MN	
Д	48.90°	02-46-50-94
В	48.90°	07-41-55-89
С	48.90°	12-36-60-84
D	48.90°	20-28-68-76
E	43.90°	96-48
F	42.10°	04-44-52-92
G	43.30°	10-38-58-86
Н	43.30°	16-32-64-80
1	41.50°	24-72
J	39.00°	03-45-51-93
K	38.20°	08-40-56-88
L	37.30°	13-35-61-83
N	32.30°	96-48
N	34.00°	06-42-54-90
С	32.30°	15-33-63-81
Т	0.00°	Table

CAM Preform using i2-a20; i7-a18.8; i12-a17.4; i20-a15.7 (ctp, then girdle) C:\Dvue2\SexyNative.gem

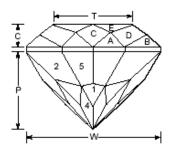






Amethyst Shield

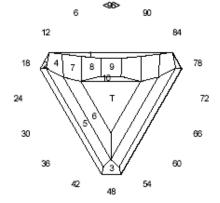
12 main barion cushion triangle by John Bailey, 2003 Angles for R.I. = 1.540 64 + 12 girdles = 76 facets 3-fold, mirror-image symmetry 96 index L/W = 1.007 T/W = 0.591 U/W = 0.570 P/W = 0.579 C/W = 0.170 Vol./W³ = 0.277

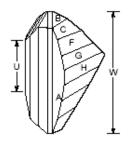


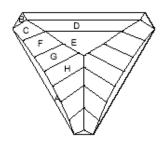
PAVILION

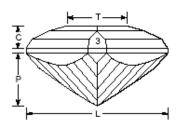
1	I	46.50°	96-08-16-24-32-40-	CTP - 12-fold
			48-56-64-72-80-88	
(31	90.00°	06-26-38-58-70-90	Establish comers
2	2	65.60°	06-26-38-58-70-90	Fix girdle location
3	3	43.30°	12-20-44-52-76-84	Meet 1, 2 - CTP
4	1	43.00°	04-28-36-60-68-92	Meet 1, 2 and Culet
5	5	71.70°	02-30-34-62-66-94	Meet 1, 2, 4
(32	90.00°	02-30-34-62-66-94	Even girdle
CI	ROW	N		
1	4	44.50°	02-30-34-62-66-94	Set girdle thickness
E	3	45.00°	06-26-38-58-70-90	Even girdle
(2	40.30°	96-32-64	Meet A, G2
[2	41.00°	05-27-37-59-69-91	Meet A, B, G1, G2
E		32.00°	03-29-35-61-67-93	Meet A, C, D
٦	ſ	0.00°	Table	Meet C, E

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Mixtress Gem

by John Bailey, 2001 Angles for R.I. = 1.540 41 + 6 girdles = 47 facets 1-fold, mirror-image symmetry 96 index L/W = 1.155 T/W = 0.485 U/W = 0.420 P/W = 0.429 C/W = 0.186 Vol./W³ = 0.232

PAVIL	NOL			CROV	MΝ		
	90.00°	96-32-64		1	60.00°	96-32-64	Cut even girdle.
	90.00°	16-48-80		2	63.00°	16-80	Cut even girdle.
A	65.00°	96-32-64	Cut even girdle.	3	50.00°	48	Cut even girdle.
В	65.00°	16-48-80	Cut even girdle.	4	32.80°	04-92	Meet girdle, 1, & 2.
С	44.00°	29-35-61-67	Meet A & B.	5	40.00°	32-64	Meet 2, 4.
D	49.00°	96	Meet C & B.	6	20.00°	32-64	Meet 3, 5.
E	44.00°	96	Meet D & C.	7	32.50°	03-93	Meet 4, 5, 6.
F	44.00°	30-34-62-66	Meet D, E, E.	8	32.20°	02-94	Make 7 same width as 4.
G	44.00°	31-33-63-65	3/5 of E face.	9	32.00°	96	Divide faces 8 into 3rds.
Н	44.00°	32-64	Divide faces G into 3rds.	Т	0.00°	Table	Meet 6, 7, 8,
				10	17.50°	96	(optional face) Meet 6, 7, 8.

Voted "One of the 12 best new designs of 2001" (CWFG)
Preform at 35° on 96 and 23° on 48.
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