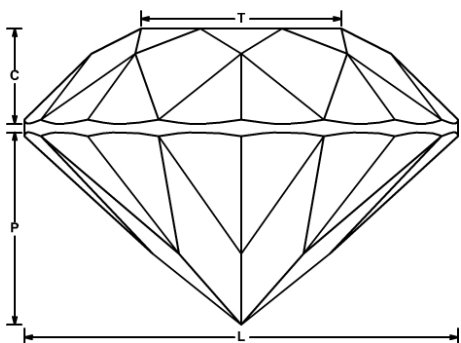
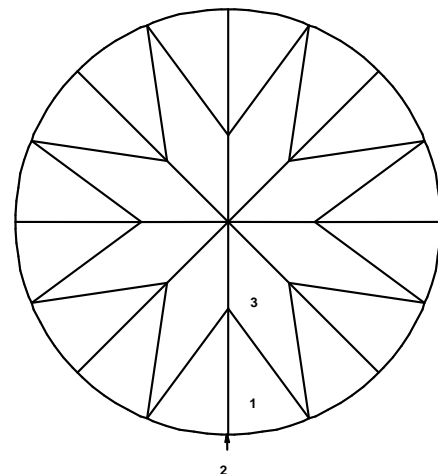
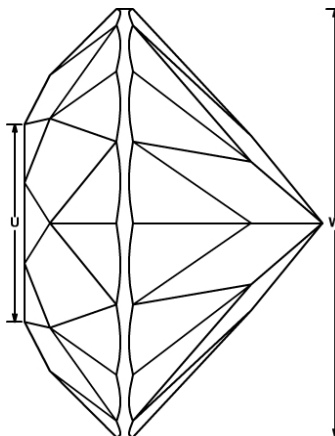
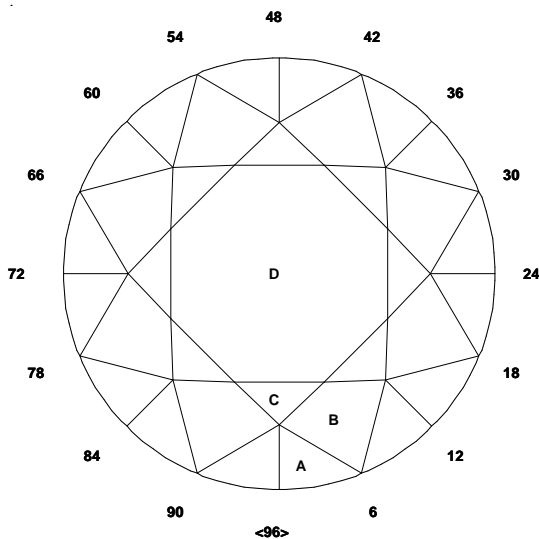


OPEN SECTION O.8A.1 – STANDARD ROUND BRILLIANT WITH CONTINUOUS GIRDL
INTERMEDIATE SECTION I.8A.2 – STANDARD ROUND BRILLIANT WITH CONTINUOUS GIRDL
NOVICE SECTION N.8A.3 – STANDARD ROUND BRILLIANT WITH CONTINUOUS GIRDL
JUNIOR SECTION J.8A.4 – STANDARD ROUND BRILLIANT WITH CONTINUOUS GIRDL

MATERIAL – COLOURED QUARTZ

SPECIFIED SIZE – 8mm

FACETS - 58 (57 + 1 Girdle): MEETS - 41 (Crown - 24, Pavilion - 17)



Standard Round Brilliant (with Continuous Girdle)

To be cut in coloured Quartz

Angles for R.I. = 1.540

57 + rolled girdle

8-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.602$ $U/W = 0.602$

$P/W = 0.435$ $C/W = 0.139$

$Vol. /W^3 = 0.209$

PAVILION

1	43.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93
2	90.00°	Continuous
3	41.00°	06-18-30-42-54-66-78-90

Cut to TCP

Set Girdle

Cut to girdle line, form PCP

CROWN

A	40.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93
B	35.00°	06-18-30-42-54-66-78-90
C	20.00°	96-12-24-36-48-60-72-84
D	0.00°	Table

Set girdle thickness

Cut to girdle line

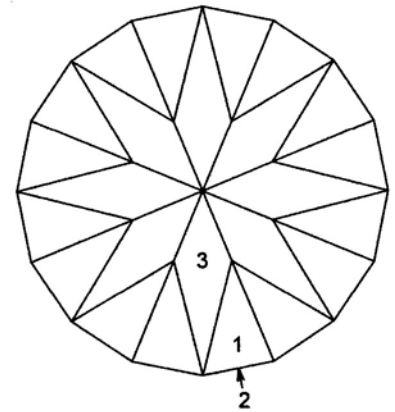
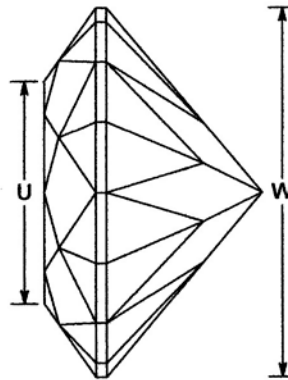
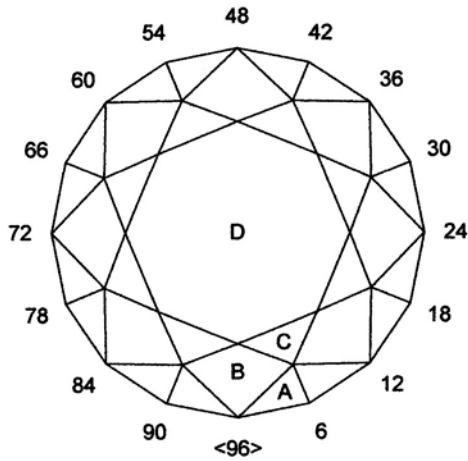
Cut to meet A & B

Cut to meet B & C

OPEN SECTION O.8B.1 – STANDARD ROUND BRILLIANT WITH FACETED GIRDLE
 INTERMEDIATE SECTION I.8B.2 – STANDARD ROUND BRILLIANT WITH FACETED GIRDLE
 NOVICE SECTION N.8B.3 STANDARD ROUND BRILLIANT WITH FACETED GIRDLE

MATERIAL- COLOURLESS TOPAZ

FACETS – 58 : MEETS – 57 (Crown – 32, Pavilion – 25)



STANDARD ROUND BRILLIANT - Faceted girdle

Meets = 57 (crown 32 Pavilion 25)

Angles for R.I. = 1.610

57 + 16 girdles = 73 facets

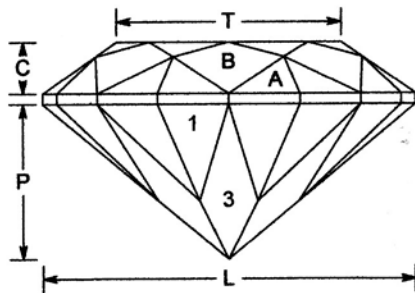
8-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.602$ $U/W = 0.602$

$P/W = 0.420$ $C/W = 0.139$

$Vol./W^3 = 0.205$



PAVILION

1	42.00°	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	Cut to TCP
2	90.00°	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	Set size of stone
3	40.00°	96-12-24-36-48-60-72-84	Meet 1, 2 at girdle

CROWN

A	42.00°	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	Set girdle width
B	35.00°	96-12-24-36-48-60-72-84	Meet A at girdle
C	20.00°	06-18-30-42-54-66-78-90	Meet A, B
D	0.00°	Table	Meet B, C

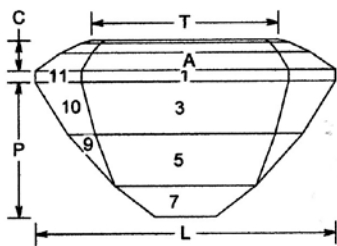
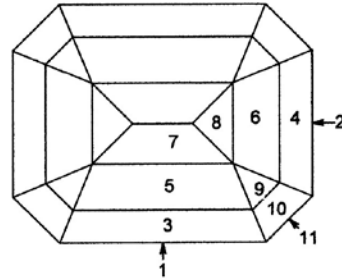
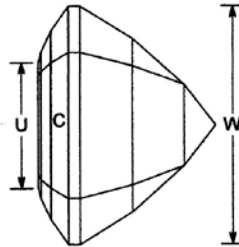
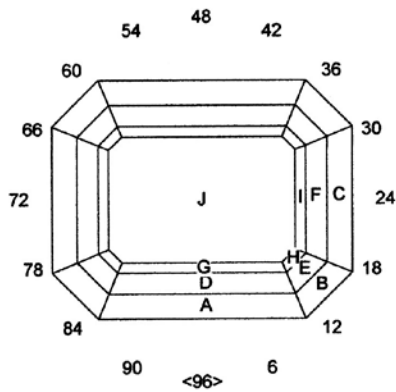
OPEN SECTION O.9A.1 – STANDARD OBLONG STEPCUT WITH CUT CORNERS

INTERMEDIATE SECTION I.9A.2 – STANDARD OBLONG STEPCUT WITH CUT CORNERS

MATERIAL- Colourless Topaz

SPECIFIED SIZE 10 by 8 mm

FACETS – 53 : MEETS – 44 (Crown – 24, Pavilion – 20)



STANDARD OBLONG STEPCUT/CUT CORNERS

Meets = 44 (Crown 24 Pavilion 20)

Angles for R.I. = 1.760

45 + 8 girdles = 53 facets

2-fold, mirror-image symmetry

96 index

$L/W = 1.250$ $T/W = 0.776$ $U/W = 0.526$

$P/W = 0.567$ $C/W = 0.127$

$Vol./W^3 = 0.463$

PAVILION

1	90.00°	96-48
2	90.00°	24-72
3	58.09°	96-48
4	58.09°	24-72
5	47.98°	96-48
6	47.98°	24-72
7	38.00°	96-48
8	38.00°	24-72
9	47.98°	12-36-60-84
10	58.09°	12-36-60-84
11	90.00°	12-36-60-84

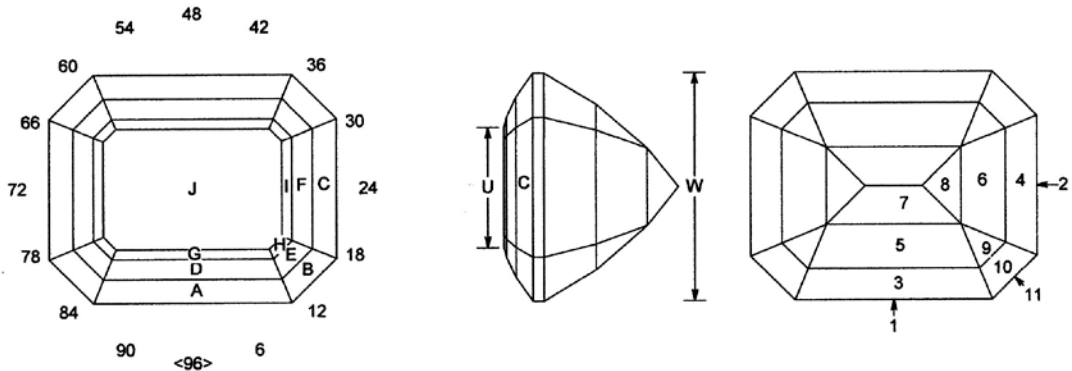
CROWN

A	35.00°	96-48
B	35.00°	12-36-60-84
C	35.00°	24-72
D	25.00°	96-48
E	25.00°	12-36-60-84
F	25.00°	24-72
G	15.00°	96-48
H	15.00°	12-36-60-84
I	15.00°	24-72
J	0.00°	Table

NOVICE SECTION N.9A.3 – STANDARD OBLONG STEPCUT WITH CUT CORNERS
JUNIOR SECTION J.9A.4 – STANDARD OBLONG STEPCUT WITH CUT CORNERS

MATERIAL- Coloured C. ZIRCONIA

FACETS – 53 : MEETS – 44 (Crown – 24, Pavilion – 20)



STANDARD OBLONG STEPCUT/CUT CORNERS

Meets = 44 (Crown 24 Pavilion 20)

Angles for R.I. = 2.160

45 + 8 girdles = 53 facets

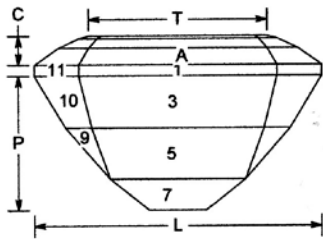
2-fold, mirror-image symmetry

96 index

$L/W = 1.250$ $T/W = 0.776$ $U/W = 0.526$

$P/W = 0.588$ $C/W = 0.127$

$Vol./W^3 = 0.474$



PAVILION

1	90.00°	96-48
2	90.00°	24-72
3	59.00°	96-48
4	59.00°	24-72
5	49.00°	96-48
6	49.00°	24-72
7	39.00°	96-48
8	39.00°	24-72
9	49.00°	12-36-60-84
10	59.00°	12-36-60-84
11	90.00°	12-36-60-84

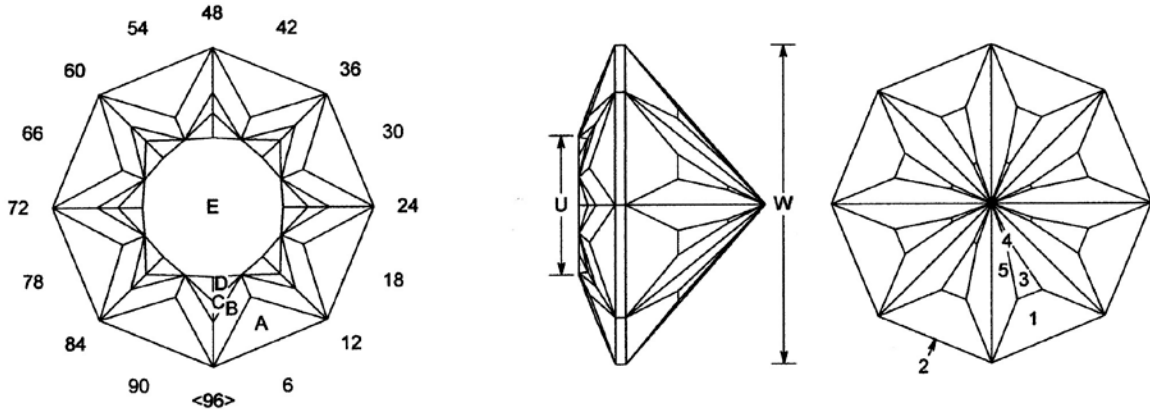
CROWN

A	35.00°	96-48
B	35.00°	12-36-60-84
C	35.00°	24-72
D	25.00°	96-48
E	25.00°	12-36-60-84
F	25.00°	24-72
G	15.00°	96-48
H	15.00°	12-36-60-84
I	15.00°	24-72
J	0.00°	Table

OPEN SECTION O 10.1 Flower

Material- Coloured MM Spinel

FACETS – 105 : MEETS – 41 (Crown – 32, Pavilion – 9)



FLOWER by IRENE WHITHAM

Computer work by John Wren
Meets 41 (Crown 32 Pavilion 9)

Angles for R.I. = 1.720

97 + 8 girdles = 105 facets

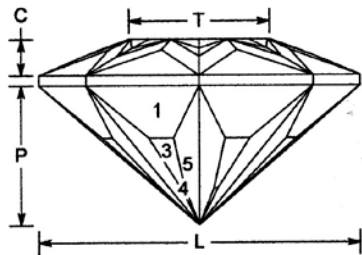
8-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.436 U/W = 0.436

P/W = 0.437 C/W = 0.113

Vol./W³ = 0.178



PAVILION

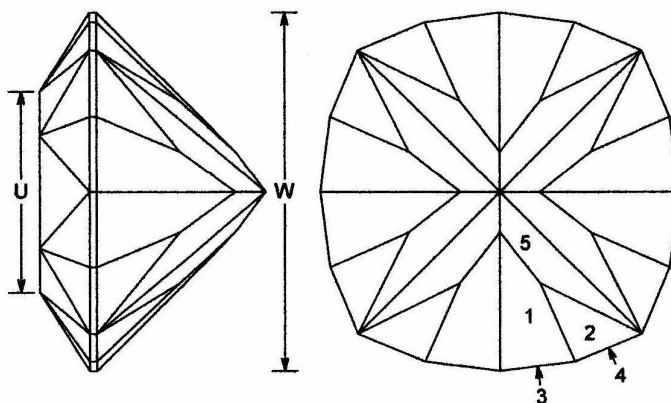
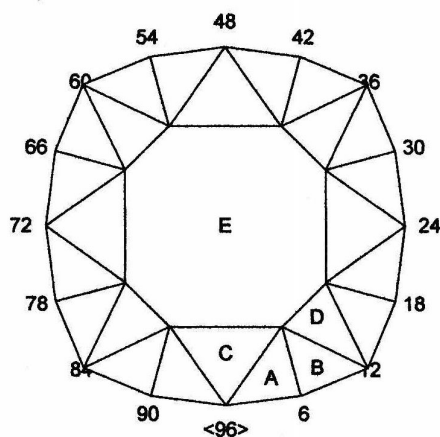
1	47.10°	06-18-30-42-54-66-78-90	Cut to TCP
2	90.00°	06-18-30-42-54-66-78-90	Set size of stone
3	41.90°	06-18-30-42-54-66-78-90	New TCP Making 1 1/3 of Culet
4	40.80°	06-18-30-42-54-66-78-90	New PCP making 3 2/3 of Culet
5	41.40°	02-10-14-22-26-34-38-46-50-58-62-70-74-82-86-94	Meet 1,2 And PCP

CROWN

A	27.00°	06-18-30-42-54-66-78-90	Set Girdle thickness
B	23.90°	04-08-16-20-28-32-40-44-52-56-64-68-76-80-88-92	Meet A at girdle
C	21.50°	02-10-14-22-26-34-38-46-50-58-62-70-74-82-86-94	Cut as design
D	19.90°	01-11-13-23-25-35-37-47-49-59-61-71-73-83-85-95	Cut as Design
E	0.00°	Table	Meet 3 and 4

]INTERMEDIATE SECTION I 10.2 Round Cushion

Material- MM Corundum



A Round Cushion by Charles Covill

Angles for R.I. = 1.760

49 + 16 girdles = 65 facets

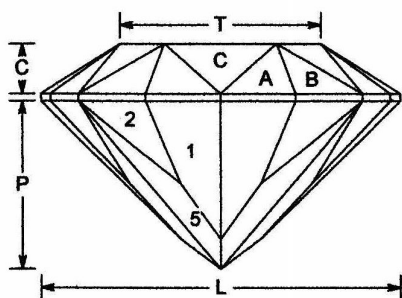
4-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.559 U/W = 0.559

P/W = 0.469 C/W = 0.139

Vol./W³ = 0.227



PAVILION

1	45.00°	02-22-26-46- 50-70-74-94	Cut to form TCP
2	43.83°	06-18-30-42- 54-66-78-90	Cut to meet TCP
3	90.00°	02-22-26-46- 50-70-74-94	Size stone
4	90.00°	06-18-30-42- 54-66-78-90	Level girdle
5	41.00°	08-16-32-40- 56-64-80-88	Meet 2 - 4 - 5, form PCP

CROWN

A	35.00°	02-22-26-46- 50-70-74-94	Set girdle thickness
B	35.00°	06-18-30-42- 54-66-78-90	Level girdle
C	32.21°	96-24-48-72	Meet A - 3
D	29.00°	12-36-60-84	Meet B - 4 - B
E	0.00°	Table	Meet A - B - C - D

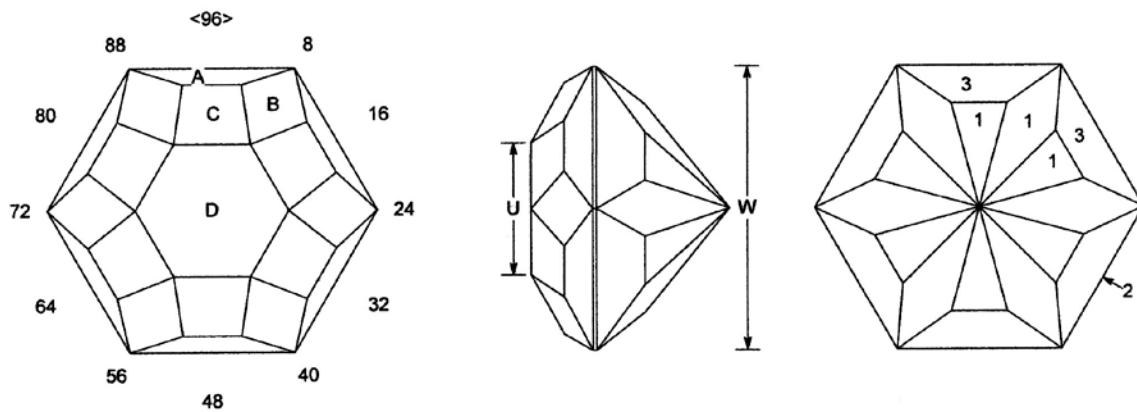
NOVICE SECTION N 10.3 Hexa Brilliant 2

Material- Colourless Topaz

JUNIOR SECTION J 10.4 Hexa Brilliant 2

Material- Colourless Topaz

FACETS – 43 : MEETS – 19 (Crown – 12, Pavilion – 7)



Hexa Brilliant #2 by Charles Covill

Meets 19 (Crown 12 Pavilion 7)

Angles for R.I. = 1.610

37 + 6 girdles = 43 facets

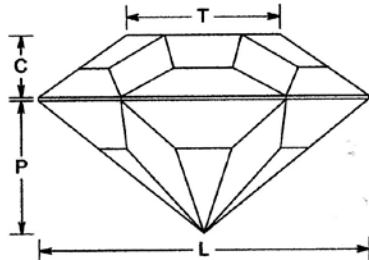
6-fold radial symmetry

96 index

L/W = 1.155 T/W = 0.536 U/W = 0.464

P/W = 0.468 C/W = 0.216

Vol./W³ = 0.284



PAVILION

1	39.00°	96-08-16-24-32-40-48-56-64-72-80-88	Cut to PCP
2	90.00°	96-16-32-48-64-80	Set size of stone
3	52.00°	96-16-32-48-64-80	Meet 1,2

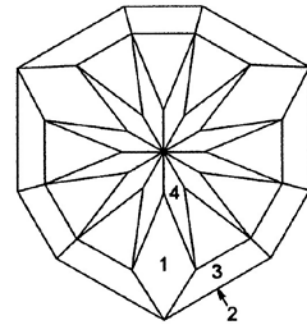
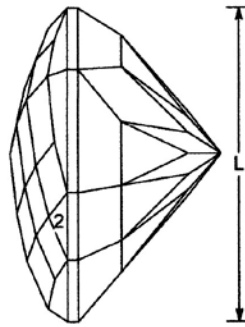
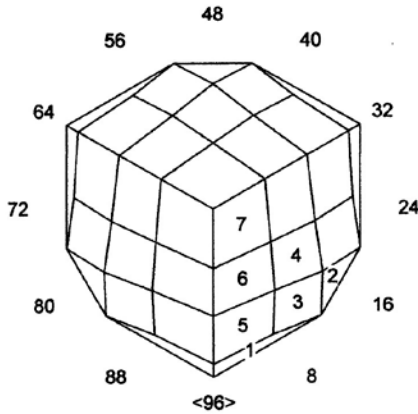
CROWN

A	60.00°	96-16-32-48-64-80	Set Girdle width
B	35.00°	08-24-40-56-72-88	Meet A,2
C	29.00°	96-16-32-48-64-80	Set C 1/3 of A
D	0.00°	Table	Meet B,C

OPEN SECTION O 11.1 SIGNET

Material- M/M Corundum

FACETS – 75 : MEETS – 53 (Crown – 31, Pavilion – 22)



SIGNET by Wilf Ross

Meets = 53 (Crown 31 Pavilion 22)

Angles for R.I. = 1.540

66 + 9 girdles = 75 facets

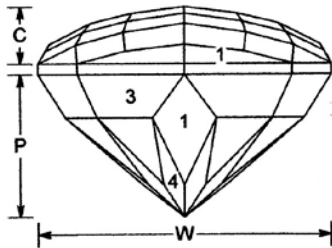
3-fold, mirror-image symmetry

96 index

L/W = 1.077

P/W = 0.489 C/W = 0.195

Vol./W³ = 0.279



PAVILION

1	40.98°	96-08-16-24-32-40-48-56-64-72-80-88	Cut to TCP
2	90.00°	08-16-24-40-48-56-72-80-88	Meet 1 and Set shape
3	57.76°	08-16-24-40-48-56-72-80-88	Meet 2
4	39.00°	04-12-20-28-36-44-52-60-68-76-84-92	Meet 1, 3

CROWN

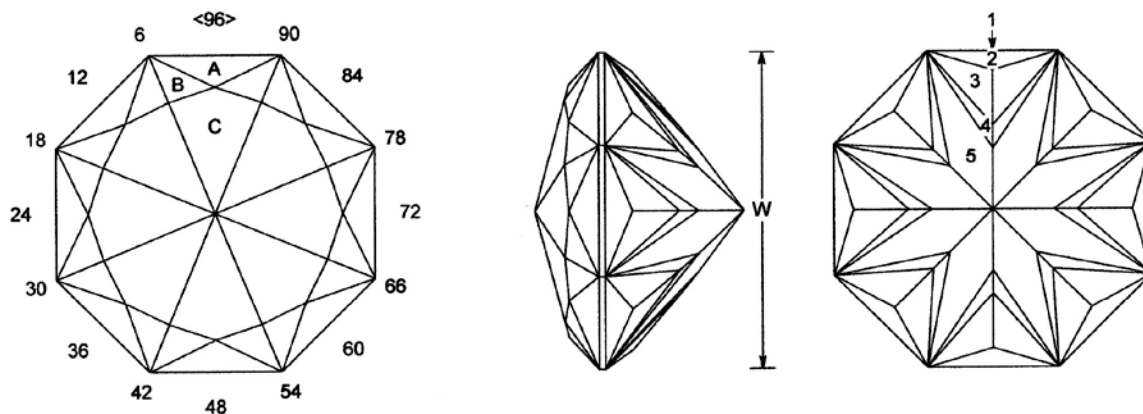
1	60.00°	08-24-40-56-72-88	Set Girdle thickness
2	42.34°	16-48-80	Meet 1 level girdle
3	32.00°	12-20-44-52-76-84	Meet 1,2 at girdle
4	21.76°	16-48-80	Meet 2, 3
5	28.86°	10-22-42-54-74-86	3 and 5 to be equal width
6	17.50°	13-19-45-51-77-83	meet 3, 4, 5
7	12.50°	16-48-80	Meet 4, 6

INTERMEDIAT SECTION I 11.2 Moonglow

NOVICE SECTION N 11.3 Moonglow

Material- Natural Amethyst

FACETS – 88 : MEETS – 50 (Crown – 25, Pavilion – 25)



MOONGLOW By Henry Larson

Meets = 50 (Crown 25 Pavilion 25)

Angles for R.I. = 1.540

80 + 8 girdles = 88 facets

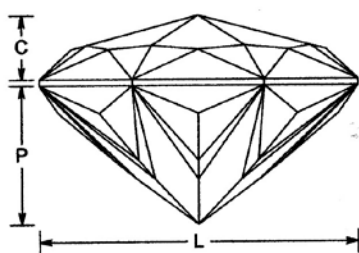
8-fold, mirror-image symmetry

96 index

L/W = 1.000

P/W = 0.438 C/W = 0.201

Vol./W³ = 0.230



PAVILION

1	90.00°	96-12-24-36-48-60-72-84	Set shape
2	55.00°	96-12-24-36-48-60-72-84	Level girdle
3	41.00°	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	meet 1 at girdle
4	40.00°	04-08-16-20-28-32-40-44- 52-56-64-68-76-80-88-92	meet 1 at girdle
5	39.00°	06-18-30-42-54-66-78-90	meet 1 at girdle

CROWN

A	43.00°	96-12-24-36-48-60-72-84	Set girdle width
B	34.00°	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	meet a at girdle
C	15.00°	96-12-24-36-48-60-72-84	meet A, B