

Thank You Fred Barion Cushion

designed by Dan Clayton copyright 2004

Crown and pavilion mix and match

For Fred Van Sant's contributions to faceting

Angles for R.I. = 1.650

85 + 16 girdles = 101 facets

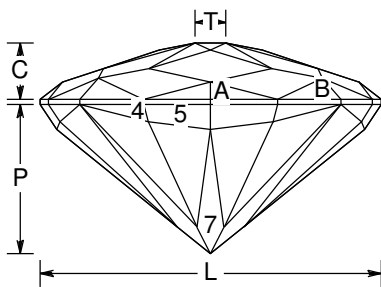
4-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.091 U/W = 0.091

P/W = 0.437 C/W = 0.166

Vol./W³ = 0.209



PAVILION

1	40.00°	03-09-15-21- 27-33-39-45- 51-57-63-69- 75-81-87-93	Cut to centerpoint
2	90.00°	02-22-26-46- 50-70-74-94	Set stone size
3	90.00°	07-17-31-41- 55-65-79-89	Set stone shape
4	55.95°	07-17-31-41- 55-65-79-89	Meet 1-1-3 at corner
5	56.79°	02-22-26-46- 50-70-74-94	Level girdle
6	38.94°	12-36-60-84	Girdle Meetpoint and new PCP
7	38.83°	96-24-48-72	Meet PCP and break facets

CROWN

A	38.37°	02-22-26-46- 50-70-74-94	Set girdle thickness
B	40.35°	07-17-31-41- 55-65-79-89	Level girdle
C	30.00°	04-20-28-44- 52-68-76-92	Girdle meetpoint
D	14.55°	12-36-60-84	Meet C-B-B-C
E	18.39°	96-24-48-72	Meet C-A-A-C
F	13.87°	06-18-30-42- 54-66-78-90	Meet E-C-D
G	10.63°	96-24-48-72	Meet F-E-F
H	0.00°	Table	Meet F-D-F

I think the very small table helps with the "dark center" in many apex designs. A special thank you to Fred's memory.

Y:\gemcad\tyfred3.asc