

Four Star

96 Index Gear
Angles for RI=1.7+

Crown: . Angle	Indices
1. 4 at 43.06°	96,24,48,72.
2. 8 at 35.00°	4,20,28,44,52,68,76,92.
3. 4 at 40.75°	12,36,60,84.
4. 8 at 33.91°	2,22,26,46,50,70,74,94.
5. 8 at 34.59°	9,15,33,39,57,63,81,87.
6. 4 at 26.16°	12,36,60,84.
7. 8 at 25.27°	5,19,29,43,53,67,77,91.
8. 8 at 27.71°	1,23,25,47,49,71,73,95.
9. 4 at 23.12°	12,36,60,84. (cut last)
10. 8 at 22.54°	4,20,28,44,52,68,76,92.

Shape = Antique Square
Table Area = 25.1 %
T/W = .5325
C/W = .1454
P/W = .4776
H/W = .6430
A/W = .34108
B/W = .17054
E/W = .17054

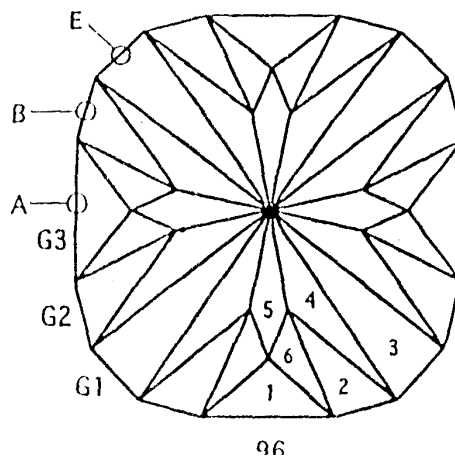
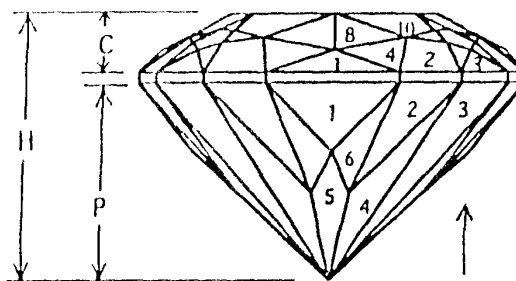
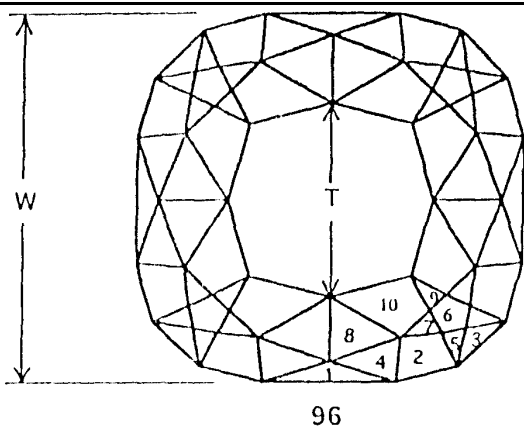
Preform by measuring A/W, B/W, E/W.
Girdle length A is twice as long as B or E.
OR

Pavilion Cutting Instructions (meetpoint):

1. Cut set 4 to PCP.
2. Cut sets 3 and 5 to meet PCP.
3. Cut four at 90° to set stone size (G1).
4. Cut set 2 to meet 3-4-G1.
5. Cut 8 at 90° to meet 3-4-G1, on set 2 indices (G2).
6. Cut set 6 to meet 2-4-5.
7. Cut four at 90° to meet 2-6-G2 (G3).
8. Cut set 1 to fit.

Pavilion:	Indices
1. 4 at 49.65°	96,24,48,72.
2. 8 at 43.59°	4,20,28,44,52,68,76,92.
3. 4 at 40.49°	12,36,60,84.
4. 8 at 41.00°	6,18,30,42,54,66,78,90.
5. 4 at 41.00°	96,24,48,72.
6. 8 at 44.00°	3,21,27,45,51,69,75,93.

Designed by Fred Van Sant
May 2001



SECTION A STONE DESIGN FOR 2003 NORTH AMERICAN FACETING CHALLENGE

The stone is to be cut in SYNTHETIC SPINEL, clear or any color.

STONE WIDTH to be 10mm. There will be an allowed margin of 0.1mm + or - without deduction. Three 100% errors will be deducted if the width is outside of the margin.

GIRDLE THICKNESS to be 0.3mm + or - 0.1mm without deduction.

Girdle will be polished and judged under the same categories on the score sheet as all other facets. Two other categories are specifically designated for the girdle alone. They are GIRDLE THICKNESS and GIRDLE UNIFORM. §