



Molniya

Shifter55 -
 Angles for R.I. = 1.540
 38 + 12 girdles = 50 facets
 1-fold mirror-image symmetry
 96 index
 $L/W = 1.243$ $T/W = 0.598$ $U/W = 0.534$
 $P/W = 0.446$ $C/W = 0.175$
 $Vol./W^3 = 0.243$

Pavilion

P1	43.00	14-23-42-54-73-82
P2	44.90	16-20-45-51-76-80
G1	90.00	14-23-42-54-73-82
G2	90.00	16-20-45-51-76-80

Cut to CTP
 Cut to CTP
 Define stone size
 Level girdle

Crown

C1	39.62	14-82
C2	44.74	16-20-45-51-76-80
C3	43.78	23-42-54-73
C4	40.19	15-81
C5	41.00	21-44-52-75
C6	28.12	10-86
C7	31.01	17-79
C8	12.06	31-65
T	0.00	Table
C9	26.10	48

Define girdle width, make sure facets are parallell with pavilion!
 Level girdle
 Level girdle
 Meet girdle, cuts VERY FAST
 Meet girdle, cuts fast
 Meet girdle on the tip
 Meet C2,C4,C6
 Meet C3,C7
 Table facet
 Meet C2,C8. Adjust to fit if table is not perfect.

This is a long trilliant that was the result of experimenting with biasing indices to produce different L/Ws. The single set of pavilion tiers should make this forgiving to cut, and it is intended for quartz tips with a single large facet and offcuts too triangular to fit a pear. Cuts in RIs 1.54-2.14 with no changes.