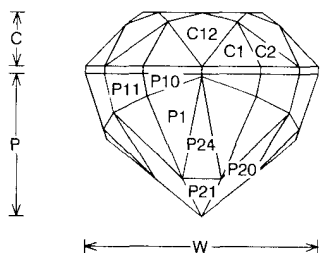


Utopia (UTOPIA.JRG)  
 By Jeff R. Graham  
 Copyright 2001  
 84.8% Light Return  
 Angles for R.I. = 1.62  
 77 facets + 16 facets on girdle = 93  
 1-fold, mirror-image symmetry  
 96 index  
 L/W = 1.436 T/W = 0.677 T/L = 0.472  
 P/W = 0.606 C/W = 0.228  
 H/W = (P+C)/W+0.02 = 0.855  
 P/H = 0.710 C/H = 0.267  
 Vol./W^3 = 0.452

**NOTE:** The pavilion point may need tweaking in on a very large stone. There is an extremely minute chisel point (P19) that will not be apparent in most stones. Cut pavilion to center point.



PAVILION		
P1	41.95	03-09-15-21-27-33-39-45 Cut to center point 51-57-63-69-75-81-87-93
P2(G)	90.00	06-90 Cut L/W=1.436...
P3(G)	90.00	12-84 Cut to meet P1.
P4(G)	90.00	19-77 Cut to meet P1.
P5(G)	90.00	24-72 Cut to meet P1.
P6(G)	90.00	28-68 Cut to meet P1.
P7(G)	90.00	32-64 Cut to meet P1.
P8(G)	90.00	34-62 Cut to meet P1.
P9(G)	90.00	37-59 Cut to meet P1.
P10	63.44	06-90 Cut to make girdle, meet tip, P1.
P11	65.21	12-84 Cut to meet P10, P1.
P12	70.13	19-77 Cut to meet P11, P1.
P13	71.22	24-72 Cut to meet P12, P1.
P14	71.82	28-68 Cut to meet P13, P1.
P15	71.82	32-64 Cut to meet P14, P1.
P16	71.37	34-62 Cut to meet P15, P1.
P17	69.77	37-59 Cut to meet P16, P1.
P18	39.00	36-60 Cut to meet breaks.
P19	39.00	24-72 Cut to meet breaks.
P20	39.95	12-84 Cut to meet breaks.
P21	40.35	96 Cut to center point, meet P20.
P22	39.00	48 Cut to center point, meet P18.
P23	41.33	46-50 Cut to meet P22, girdle.
P24	40.45	96 Cut to meet girdle, P20, P21.

CROWN		
C1-C8	46.00	06-12-19-24-28-32-34-37 59-62-64-68-72-77-84-90
C9	44.18	33-63
C10	42.58	26-70
C11	39.75	16-80
C12	36.07	96
C13	30.59	48
C14	14.61	42-54
C15	31.76	29-67
C16	26.60	20-76
C17	17.88	08-88
C18	17.23	48
T	0.00	Table

Cut to meet girdle.  
 Cut to meet girdle.  
 Cut to meet girdle.  
 Cut to meet girdle.  
 Cut to meet girdle.  
 cut to meet C7, C8.  
 Cut to meet C5, C6.  
 Cut to meet C3, C4.  
 Cut to meet C1, C2.  
 Cut to meet C13, C14...  
 Cut to meet every thing...

**MASTERS STONE DESIGN FOR USFG 2002 SINGLE STONE COMPETITION**

The stone is to be cut in TOPAZ, clear or any color (it can be irradiated).

STONE WIDTH to be 8mm to 11mm. 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. §