



Sultana CAM Preform

by Ernie Hawes

CAM Preform created by Jeff Theesfeld

Angles for R.I. = 1.650

16 + 16 girdles = 32 facets

1-fold, mirror-image symmetry

96 index

L/W = 1.101

C/W = 0.304

Vol./W³ = 0.698

PREFORM

A	30.00°	21-75	Cut to CAM TCP established as described below
B	28.97°	28-68	Cut to CAM TCP
C	31.38°	36-60	Cut to CAM TCP
D	34.28°	42-54	Cut to CAM TCP
E	35.62°	46-50	Cut to CAM TCP
F	31.42°	16-80	Cut to CAM TCP
G	31.87°	11-85	Cut to CAM TCP
H	30.68°	07-89	Cut to CAM TCP
g1	90.00°	46-50	Estimate girdle depth and level with E
g2	90.00°	42-54	Meet E and g1, level girdle
g3	90.00°	36-60	Meet D and g2, level girdle
g4	90.00°	28-68	Meet C and g3, level girdle
g5	90.00°	21-75	Meet B and g4, level girdle
g6	90.00°	16-80	Meet A and g5, level girdle
g7	90.00°	11-85	Meet F and g6, level girdle
g8	90.00°	07-89	Meet H and g7, level girdle, take to 8,000 grit min.

Start this gem by cutting in four facets at Index settings 12, 36, 60 and 84 at 24 degrees in order to create an exact TCP in line with the dop centerline.

Then proceed to the sequence listed

C:\Users\205605\Documents\JT Work\Gems and Minerals\GemCad\GemCad Designs\NMFG Designs\Ernie Hawes [