Barion Sunstone Hex

By Bruce White 9-29-2010
Angles for R.I. = 1.540
55 + 12 girdles = 67 facets
6-fold, mirror-image symmetry
96 index
L/W = 1.093 T/W = 0.618 U/W = 0.535
P/W = 0.542 C/W = 0.230
Vol./W³ = 0.333

PAVILION

1	47.05°	08-24-40-56-72-88	Cut to center point
2	46.82°	05-11-21-27-37-43-53-59-69-75-85-91	Cut to center point
3-g1	90.00°	08-24-40-56-72-88	Set stone width
4-g2	90.00°	96-16-32-48-64-80	Set stone width
5	66.03°	96-16-32-48-64-80	Cut to meet 1-2 at girdle
6	42.50°	96-16-32-48-64-80	cut to meet 5 at apex, tip of 1-2 and new center point

CROWN

A	50.00°	96-16-32-48-64-80	Set girdle width
B	53.00°	08-24-40-56-72-88	Level girdle
C	40.00°	96-16-32-48-64-80	Cut to A-B-A
D	30.00°	96-16-32-48-64-80	Cut to leave C about 50% width of A
T	0.00°	Table	Cut table to leave D as only slight break facet

All but the last two sequesces are meet point. D and T are cut by eye. I haven't had a chance to cut this one yet but I'm guessing it will be great for smaller (5-8mm) Sunstone with those red or green colored centers.
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