

Mindfuck

by Arya Akhavan (June 2013)

Angles for R.I. = 1.580

118 + 24 girdles = 142 facets

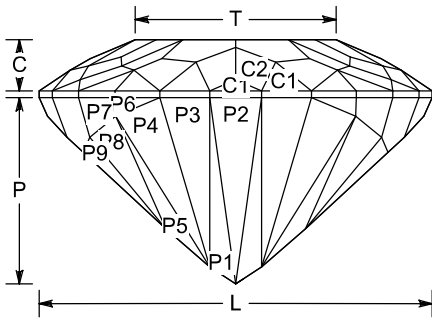
3-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.511$ $U/W = 0.506$

$P/W = 0.473$ $C/W = 0.130$

$Vol./W^3 = 0.216$



PAVILION

P1	43.15°	02-30-34-62-66-94	Cut to centerpoint.
P2	43.39°	96-32-64	Meet culet.
G1	90.00°	96-04-28-32-36-60-64-68-92	Meet P1, P2, G1
P3	43.90°	04-28-36-60-68-92	Meet P1, P2, G1, G2 (level girdle)
P4	43.91°	05-27-37-59-69-91	Meet P1, P3
P5	43.42°	06-26-38-58-70-90	Meet P1, P3, P4
G3	90.00°	08-24-40-56-72-88	Meet G2, P3, P4
P6	65.30°	08-24-40-56-72-88	Meet G2, P3, P4, G3 (level girdle)
P7	68.81°	12-20-44-52-76-84	Meet P4, P5, P6
G4	90.00°	12-20-44-52-76-84	Meet G3, P6, P7
P8	43.39°	07-25-39-57-71-89	Meet P4, P6, P7
P9	42.74°	08-24-40-56-72-88	Meet P5, P8
P10	69.24°	16-48-80	Meet P7, P8, P9
G5	90.00°	16-48-80	Meet G4, P7, P10

CROWN

C1	33.92°	96-04-08-12-16-20-24-28-32-36-40-44-48-52-56-60-64-68-72-76-80-84-88-92	Set girdle width.
C2	31.45°	01-31-33-63-65-95	Meet G1, G2, C1
C3	31.48°	07-25-39-57-71-89	Meet G2, G3, C1
C4	29.43°	14-18-46-50-78-82	Meet G4, G5, C1
C5	25.41°	16-48-80	Meet C1, C4
C6	24.11°	13-19-45-51-77-83	Meet C1, C3, C4
C7	22.79°	06-26-38-58-70-90	Meet C1, C2, C3
C8	23.07°	15-17-47-49-79-81	Meet C4, C5, C6
T	0.00°	Table	Meet C6, C7, C8

Yes, this is a REVERSE barion, squashing a triangle into a circle instead of vice versa! This design can be cut either by doing the full girdle first, or by following the meetpoint-style instructions, cutting girdle facets as listed. Works in materials from orthoclase to rutile (RI = 1.52 - 2.62) with no changes, but I prefer golden beryl.

Suggested size = 12-18 mm

C:\Users\ARYADE~1\Pictures\DESIGN~1\WORKSI~1\28MIND~1.GEM