

Staggered Curtains

by Loren Brown, RSA Gems (c) 2018

Angles for R.I. = 1.580

153 + 16 girdles = 169 facets

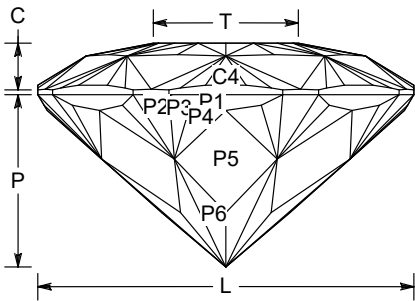
8-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.386 U/W = 0.386

P/W = 0.457 C/W = 0.124

Vol./W³ = 0.210



PAVILION

G1	90.00°	96-12-24-36-48-60-72-84	equilateral octagon
G2	90.00°	06-18-30-42-54-66-78-90	cut corners, result ~1/3 of resultant G1
P1	58.86°	96-12-24-36-48-60-72-84	establish and level girdle
P2	46.41°	06-18-30-42-54-66-78-90	establish and level girdle
P3	45.21°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	meet G1, G2, P2, pinching off P2 above
P4	43.61°	01-11-13-23-25-35-37-47-49-59-61-71-73-83-85-95	meet P2, P3
P5	41.72°	96-12-24-36-48-60-72-84	meet P2, P3, P4 on both sides
P6	40.23°	01-11-13-23-25-35-37-47-49-59-61-71-73-83-85-95	meet P2 establishing CP

CROWN

C1	26.60°	06-18-30-42-54-66-78-90	establish girdle thickness and level
C2	29.62°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	
C3	27.91°	05-07-17-19-29-31-41-43-53-55-65-67-77-79-89-91	
C4	31.13°	96-12-24-36-48-60-72-84	
C5	11.94°	05-07-17-19-29-31-41-43-53-55-65-67-77-79-89-91	
	10.89°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	
T	0.00°	Table	

This has some very challenging meet points on both the pavilion and crown. Optimized for Beryl, should be better in higher RI materials. Scale it for lower RIs (sunstone, quartz, etc.)

C:\Users\Loren Brown\Documents\Rounds\Staggered Curtains.gem