

Curtains12

Loren Brown, RSA Gems, (c) 2018

Angles for R.I. = 1.690

205 + 24 girdles = 229 facets

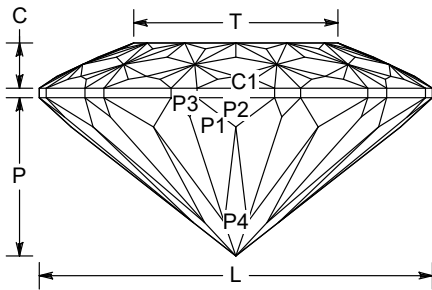
12-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.520$ $U/W = 0.520$

$P/W = 0.402$ $C/W = 0.115$

$Vol./W^3 = 0.187$



PAVILION

P1	38.58°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78-82-86-90-94	cut to TCP
G1	90.00°	96-08-16-24-32-40-48-56-64-72-80-88	
G2	90.00°	04-12-20-28-36-44-52-60-68-76-84-92	cut about 1/3 length of resulting G1
P2	42.55°	96-08-16-24-32-40-48-56-64-72-80-88	level girdle
P3	40.48°	04-12-20-28-36-44-52-60-68-76-84-92	level girdle, meet G1, G2, P2 on both sides
P4	38.00°	96-08-16-24-32-40-48-56-64-72-80-88	meet P2

CROWN

C1	33.49°	96-08-16-24-32-40-48-56-64-72-80-88	establish girdle thickness
C2	29.86°	04-12-20-28-36-44-52-60-68-76-84-92	level girdle, meet C1, G1, G2
C3	29.04°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78-82-86-90-94	Meet C1, C2, G1, G2, pinch off C2
C4	27.58°	01-07-09-15-17-23-25-31-33-39-41-47-49-55-57-63-65-71-73-79-81-87-89-95	pinch off C3 at C2
C5	25.00°	96-08-16-24-32-40-48-56-64-72-80-88	meet C1, C4, meet C2, C3, C4
C6	20.91°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78-82-86-90-94	meet C2, C3, C4, C5
C7	21.74°	01-07-09-15-17-23-25-31-33-39-41-47-49-55-57-63-65-71-73-79-81-87-89-95	meet C2, C3, C4, C5, C6
T	0.00°	Table	
S1	17.15°	04-12-20-28-36-44-52-60-68-76-84-92	star facets meet each other at C6, C7, T

An extension of the curtains idea to 12-fold symmetry. Best for large stones > 15 mm

Many difficult meetpoints in this design. Better in higher RI materials (tanzanite, garnet, corundum, sphene) but can be done in quartz and beryl with deeper pavilions.

C:\Users\Loren Brown\Documents\Rounds\Curtains 12.gem