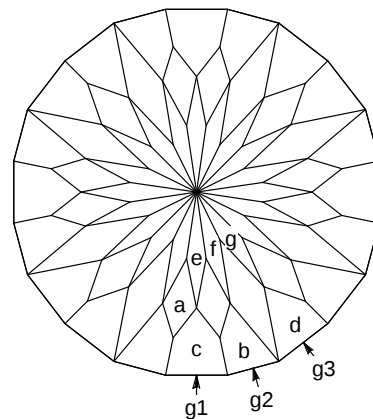
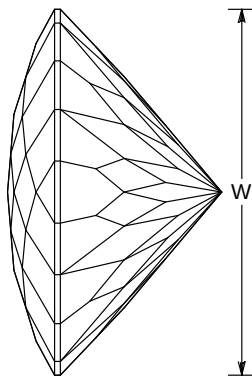
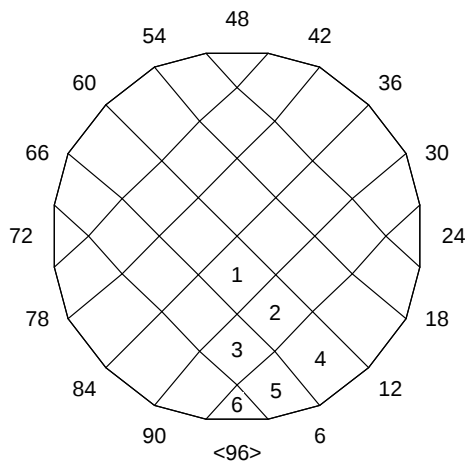


Checker blossom

By Jón Olaf Svane, 22. march 2003

This cut came about only because I wanted to do a checkerboard design.
I optimized it for Quartz - my favourite material.

Angles for R.I. = 1.540

96 + 20 girdles = 116 facets

4-fold, mirror-image symmetry

96 index

L/W = 1.000

P/W = 0.442 C/W = 0.129

Vol./W³ = 0.186

PAVILION

a	41.10°	02-07-12-17- 22-26-31-36- 41-46-50-55- 60-65-70-74- 79-84-89-94	Form TCP
b	43.09°	04-20-28-44- 52-68-76-92	Just cut it.
c	43.66°	96-24-48-72	Meet a-b
d	43.21°	10-14-34-38- 58-62-82-86	Meet b-a
e	40.10°	96-24-48-72	Meet a-c-a and form PCP
f	39.97°	04-20-28-44- 52-68-76-92	Meet a-b-a and PCP
g	39.98°	10-14-34-38- 58-62-82-86	Meet a-d-a and PCP
g1	90.00°	96-24-48-72	Fill width of c
g2	90.00°	04-20-28-44- 52-68-76-92	Meet a-b-g1
g3	90.00°	10-14-34-38- 58-62-82-86	Meet a-b-g2

CROWN

1	4.80°	96-24-48-72	Forming PCP
2	12.70°	08-16-32-40- 56-64-80-88	Making 1 equal and square
3	17.16°	96-24-48-72	Meet 2-1-2
4	22.52°	10-14-34-38- 58-62-82-86	Make 2 equal and square
5	24.55°	04-20-28-44- 52-68-76-92	meet 3-2-4 and make 3 equal and square
6	28.77°	96-24-48-72	Meet 5-3-5

With ISO-brightness around 93-96 % this is pretty nice. Tilt performance is also good.

BOGX-score is 366.5.

D:\Jón Olaf Svane\Nojfalo\facet\dotgem\checkerblossom.gem