



Square Brilliant by Wayne Emery

Generic design, not original
 Angles for R.I. = 1.830
 57 + 8 girdles = 65 facets
 4-fold mirror-image symmetry
 96 index
 $L/W = 1.000$ $T/W = 0.561$ $U/W = 0.561$
 $P/W = 0.556$ $C/W = 0.158$
 $Vol./W^3 = 0.340$

Pavilion

1	42.00	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	TCP
2	90.00	96-24-48-72	Cut to size
3	90.00	12-36-60-84	Cut to desired width
4	70.00	96-24-48-72	GMP
5	42.78	12-36-60-84	GMP
6	40.80	06-18-30-42-54-66-78-90	MP 4, 1, 1 make new PCP

Crown

A	42.00	96-24-48-72	Start level girdle of right width
B	34.00	96-24-48-72	Continue floating facet with sizing A
C	25.00	96-24-48-72	Size width of B to be about A vertical view
D	0.00	Table	Set table to make C about 1/3 width of B
E	40.00	12-36-60-84	GMP at 1, 2, A complete level girdle
F	32.00	12-36-60-84	MP E, A, B
G	23.00	12-36-60-84	MP F, B, C

Good for any RI, except for quartz and beryl. For beryl raise pavilion angles 1 degree, for quartz 1.5 -2 degrees.