

BULLET COMPETITION

In our issue #51 of September/October 2003, Jim Finlayson, the proprietor of **AGATEWARE** proposed and sponsored a mini competition for the **UKFCG** for the best "Bullet" design, and one which would exceed 70% ISO brightness.

The deadline set was for the end of November 2003, and the winner was Tim Smith, announced in Faceters' Stonechat of January 2004 (#53). Tim achieved an ISO brightness of 80.1%

This competition sparked the interest of the members of the Columbia Willamette Faceters Guild, and in their newsletter **FACETS** of January 2004 they also ran the same mini competition for their members and a deadline of the end of April was set. In their subsequent newsletter of May 2004 it was announced that their winner was Wilf Ross.

Our congratulations go out to Wilf Ross for a very nice pleasing design, and it is with great pleasure that we reproduce it here.

However, as there was no ISO brightness diagram accompanying the design, as editor of the newsletter I requested Jim Finlayson to

produce one and to offer comment on the design so that comparison could be made between Wilf's design and that of Tim Smith. His response, in a "Letter to the Editor" appears at the foot of this page.

WINNER OF CWFG "FACETS" MINI CONTEST

HERALDIC.GEM
 By Wilf Ross (Jan '04)
 Angles for R.I. = 1.76
 53 facets + 12 facets on girdle = 65
 1-fold, mirror-image symmetry
 96 index
 L/W = 1.337 T/W = 0.691 T/L = 0.518
 P/W = 0.462 C/W = 0.118
 H/W = (P+C)/W+0.02 = 0.600
 P/H = 0.770 C/H = 0.196
 Vol./W³ = 0.248
 ISO Brightness = 82.0%

PAVILION			CROWN		
1	40.04	12-36-60-84	1	33.64	42-54
2	44.44	42-54 To TCP	2	40.06	26-70
3	43.97	26-70 To TCP	3	39.24	21-75
4	44.29	21-75 To TCP	4	38.08	18-78
5	43.73	18-78 To TCP	5	37.26	14-82
6	41.87	14-82 To TCP	6	35.53	12-84
7	90.00	26-70	7	32.00	24-72
8	90.00	21-75	8	32.00	16-80
9	90.00	18-78	9	28.13	43-53
10	90.00	14-82	10	23.68	46-50
11	90.00	12-84	11	20.55	20-76
12	90.00	42-54	12	19.56	07-89
13	41.62	45-53	13	15.38	10-86
14	40.72	39-57	14	12.98	32-64
15	41.19	28-68	15	0.00	Table
16	42.84	23-73			
17	41.68	16-80			
18	36.00	10-86			

LETTER TO THE EDITOR

Dear Keith,
 As requested I have worked out the ISO brightness for Wilf Ross's HERALDIC.Gem (ref. FACETS May 2004 - page 7 "The winner of the mini contest").

The ISO brightness comes out at 82.0%, with RI = 1.76. However you will not be able to make a direct comparison with Tim Smith's design (winner of the UKFCG mini contest) as the two

designs are quite different.

Tim was constrained to work with a specific (Bullet) preform and Quartz with an RI of 1.54. Wilf has designed a shield shape using an RI of 1.76, so Tim is at a fair disadvantage with respect to brightness potential.

I hope that this is of some use to you.

Regards, Jim.