

SEATTLE FACETOR DESIGN  
 FEBRUARY 1976

PREFORMING CHART FOR TRUE ELLIPSE -- 72 INDEX CENTERPOINT ANGLE METHOD

		Ellipse Size (mm)				
		5 x 7	6 x 7	5 x 6	4 x 5	6 x 8
		10 x 14	12 x 14	10 x 12	8 x 10	12 x 16
		15 x 21	18 x 21	15 x 18	12 x 15	18 x 24
		20 x 28	24 x 28	20 x 24	16 x 20	24 x 32
		25 x 35	30 x 35	25 x 30	20 x 25	30 x 40
INDEX SETTING						
36 - 72		54.5	49.4	50.2	51.3	51.2
M	04 - 32 - 40 - 68	53.0	48.8	49.5	50.4	50.0
A	10 - 26 - 46 - 62	48.2	46.7	46.9	47.3	45.9
I	18 - 54	45.0	45.0	45.0	45.0	43.0
N						
B	01 - 35 - 37 - 71	54.4	49.4	50.1	51.3	52.6
R	03 - 33 - 39 - 69	53.6	49.1	49.8	50.8	51.0
E	05 - 31 - 41 - 67	52.3	48.5	49.1	50.0	50.9
A	09 - 27 - 45 - 63	49.0	47.0	47.4	47.8	48.0
K	12 - 24 - 48 - 60	46.9	46.0	46.1	46.4	46.2
S	16 - 20 - 52 - 56	45.2	45.1	45.1	45.2	44.7

Angles shown in the table are elevation angles chosen so that no cheater adjustment should be necessary when the final break facets are cut. Only the "break" facets need be cut for the preform outline. All stones with the same ellipse (L/W) proportions can be cut with the same angles and settings

Based on calculations made by R. H. Long