

## TRUE ELLIPSE ... PREFORMING INSTRUCTIONS BY THE MICROMETER HEIGHT ADJUSTMENT METHOD

Table 96-4 MICROMETER HEIGHT ADJUSTMENT FOR 96 INDEX

Ellipse Size (mm)	5 x 7	10 x 14	15 x 21	20 x 28	25 x 35
Width (inches)	0.1969	0.3937	0.5906	0.7874	0.9843
INDEX SETTING					
48 - - - 96	0.0000	0.0000	0.0000	0.0000	0.0000
01 - 47 - 49 - 95	0.0002	0.0004	0.0006	0.0008	0.0010
02 - 46 - 50 - 94	0.0008	0.0016	0.0024	0.0032	0.0040
03 - 45 - 51 - 93	0.0018	0.0036	0.0054	0.0072	0.0090
04 - 44 - 52 - 92	0.0031	0.0062	0.0093	0.0124	0.0155
05 - 43 - 53 - 91	0.0048	0.0095	0.0143	0.0191	0.0238
06 - 42 - 54 - 90	0.0067	0.0134	0.0201	0.0268	0.0335
07 - 41 - 55 - 89	0.0088	0.0177	0.0265	0.0353	0.0442
08 - 40 - 56 - 88	0.0112	0.0224	0.0336	0.0448	0.0560
09 - 39 - 57 - 87	0.0136	0.0273	0.0409	0.0545	0.0682
10 - 38 - 58 - 86	0.0162	0.0324	0.0486	0.0648	0.0810
11 - 37 - 59 - 85	0.0188	0.0375	0.0563	0.0751	0.0928
12 - 36 - 60 - 84	0.0213	0.0426	0.0639	0.0852	0.1035
13 - 35 - 61 - 83	0.0238	0.0476	0.0714	0.0952	0.1170
14 - 34 - 62 - 82	0.0262	0.0525	0.0787	0.1049	0.1312
15 - 33 - 63 - 81	0.0285	0.0571	0.0856	0.1141	0.1427
16 - 32 - 64 - 80	0.0307	0.0613	0.0920	0.1227	0.1533
17 - 31 - 65 - 79	0.0326	0.0651	0.0978	0.1304	0.1630
18 - 30 - 66 - 78	0.0343	0.0687	0.1030	0.1373	0.1717
19 - 29 - 67 - 77	0.0353	0.0717	0.1075	0.1433	0.1792
20 - 28 - 68 - 76	0.0371	0.0742	0.1113	0.1484	0.1855
21 - 27 - 69 - 75	0.0381	0.0762	0.1143	0.1524	0.1905
22 - 26 - 70 - 74	0.0388	0.0776	0.1164	0.1552	0.1940
23 - 25 - 71 - 73	0.0392	0.0785	0.1177	0.1569	0.1962
24 - - - 72	0.0394	0.0787	0.1181	0.1575	0.1969

## General Instructions:

First cut alternately at 96 and 48 until the desired width is attained. Note the micrometer setting (in inches). Select the column in the Table which most nearly meets the proportions and size of the stone you want to cut. Then move the index to the next setting and raise the faceting head by the appropriate amount (height adjustment from the Table, inches) before cutting the facet. Continue cutting at 90 degrees until the complete outline is preformed.

