

MATERIAL: 25 Aluminum							
WAFER: Solid, Unconfined							
ANVIL LUBRICANT: Molybdenum Disulphide							
D/H = 4.0				D/H = 4.0			
FORCE (Kips)	DIA. (in)	$\sigma_f/\sigma_0$	R/R <sub>0</sub>	FORCE (Kips)	DIA. (in)	$\sigma_f/\sigma_0$	R/R <sub>0</sub>
0	0.500	0	1.000	0	1.250	0	1.000
2.55	0.503	1.23	1.006	13.5	1.255	1.04	1.004
2.94	0.507	1.39	1.014	16.0	1.256	1.23	1.005
3.34	0.511	1.55	1.022	18.5	1.262	1.41	1.009
3.73	0.516	1.70	1.032	20.9	1.267	1.57	1.013
4.12	0.529	1.80	1.058	23.4	1.288	1.71	1.030
4.51	0.541	1.88	1.082	25.8	1.321	1.87	1.057
4.91	0.552	1.95	1.104	28.3	1.345	1.91	1.076
5.30	0.560	2.06	1.120	33.2	1.409	2.03	1.127
5.69	0.573	2.11	1.146	35.7	1.435	2.10	1.148
				38.1	1.458	2.18	1.166

TABLE 7 EXPERIMENTAL DATA FOR COMPRESSION OF SOLID, UNCONFINED 2S ALUMINUM WAFERS