Table 2. Data and formulae for the off-orientation tantalum crystal at 25°C. Direction cosines are: $\ell = .7752$; $m = .6279$; $n = .0697$. Orientation functions are: $\Gamma = \ell^2m^2+m^2n^2+n^2\ell^2$; $\alpha = 2n^2(\ell^4+\ell^2m^2+m^4)/(\ell^2+m^2)$; $\beta = 2\ell^2m^2/(\ell^2+m^2)$. Notation used is $C = C_{44}$ and $C' = (C_{11} - C_{12})/2$.

	Formula	Working Expression	Value (10^3kbar)	Transit Time, T Observed (μs)
C'_{11}	$C_{11} - 4\Gamma(C'-C)$	$C_{11} - (.9668)(C'-C)$	2.900	9.081
C'_{55}	$C + 2\alpha(C'-C)$	$(.9853)C + (.0147)C'$	.814	17.208
C'_{66}	$C + 2\beta(C'-C)$	$(.0478)C + (.9522)C'$	.532	20.846