Suppose that $f$ is an entire function of exponential type $\tau$, which is bounded by 1 on the real axis and is nonzero in the half-plane $\text{Im } z > k$. In the case $k = 0$, Boas showed that, if $\lim_{t \to +\infty} \log |f(it)|/t = 0$, then $|f'(x)| \leq \tau/2$ for all real $x$. The authors have already shown that, in the case $k < 0$, an improvement of this inequality for $f'$ is possible, under additional assumptions concerning the growth of $f'(z)$ and $e^{i\tau z} f(z)$ on the positive imaginary axis. Perhaps surprisingly, their estimate is sharp. The present paper extends their earlier results slightly.

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