Corrigendum

Equation (76) contains a sign error. The third line of this equation should begin with a minus sign, not a plus sign. That is, Eq. (76) should read

$$\frac{d\Psi}{ds} = \ldots - \frac{\mu(1-\mu^2)^{1/2}}{h_w} \ldots .$$

As stated in the introduction to the paper, the motivation for this work was to obtain an explicit form for the streaming operator in the transport equation, which could be used to compute curvature effects in an asymptotic analysis leading to diffusion theory. This sign error was discovered while performing this analysis. The complete, corrected, Eq. (76) can be found in the following reference: F. Malvagi and G. C. Pomraning, "Initial and Boundary Conditions for Diffusive Linear Transport Problems," submitted to *J. Math. Phys.*