ASTR410 Radio Astronomy: Midterm Exam

I pledge my honor that I have not given or received any unauthorized assistance on this examination.

-Official University Honor Pledge

What is meant by the brightness (or specific intensity) of a source?
What of the impossible lamplight in a sudden snowed-over land?
Or the brave-lit eyes of the sapling-girl leaning into the storm, towards the April she has written herself?

And what are the units for this quantity?
Can units of Jansky express the child's
astounding optical depth?
Can radians account for the crying sphere
that is her heart?

Assuming you witness her sway
Assuming everything about your observation
is right, is observable
both in day & at night
Can you now detect the source?

Possibly it is some parcel of kindness absorbed & emitted, or else

An imagination flaming quick then breathing in its own sure air

so gaining perfect stability

-Jenny Binckes Lee