Leading Arm Sightlines 2.00 Si II, N=20 Si III, N=14 Si IV, N=4 1.75 Si II-IV K-S D=0.45000, p=0.38902 Si II-III K-S D=0.35000, p=0.21130 fraction of components Si III-IV K-S D=0.35714, p=0.71942 1.50 1.25 1.00 0.75 0.50 0.25 0.00 12.00 12.25 12.50 12.75 13.00 13.25 13.50 13.75 14.00 14.25 Column Density $[log(N/cm^{-2})]$