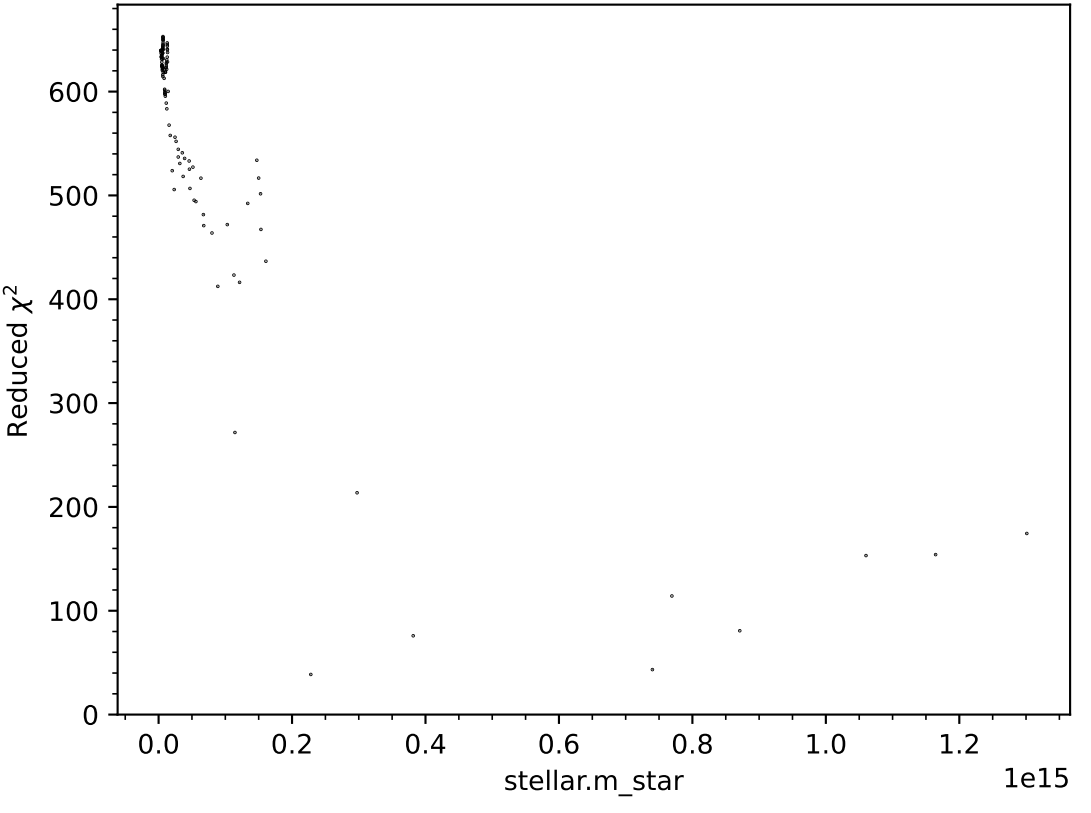Reduced χ^2 distribution of stellar.m_star for 1146350.