

	Uniform	Darkened
c semi-axis relative orbit	8,800,000	8,915,000
" " brighter star	4,458,000	4,470,000
c in terms of radius of sun $\times$	12.78	12.82
a " " " "	5.81	5.86
r_1 radius bright star	3.22	3.23
r_2 " " fainter " "	3.22	3.27
n_1 mass brighter star	5.34	5.36
n_2 " " fainter " "	1.66	1.71
ρ density brighter star	0.20	0.18
ρ " " fainter " "	0.18	0.16

The volumes of the stars are computed assuming the elliptical forms given by the photometric orbit and

volume brighter star	26.28	29.07
volume fainter star	26.28	29.07
and the total surface area of both stars	18.88	19.62

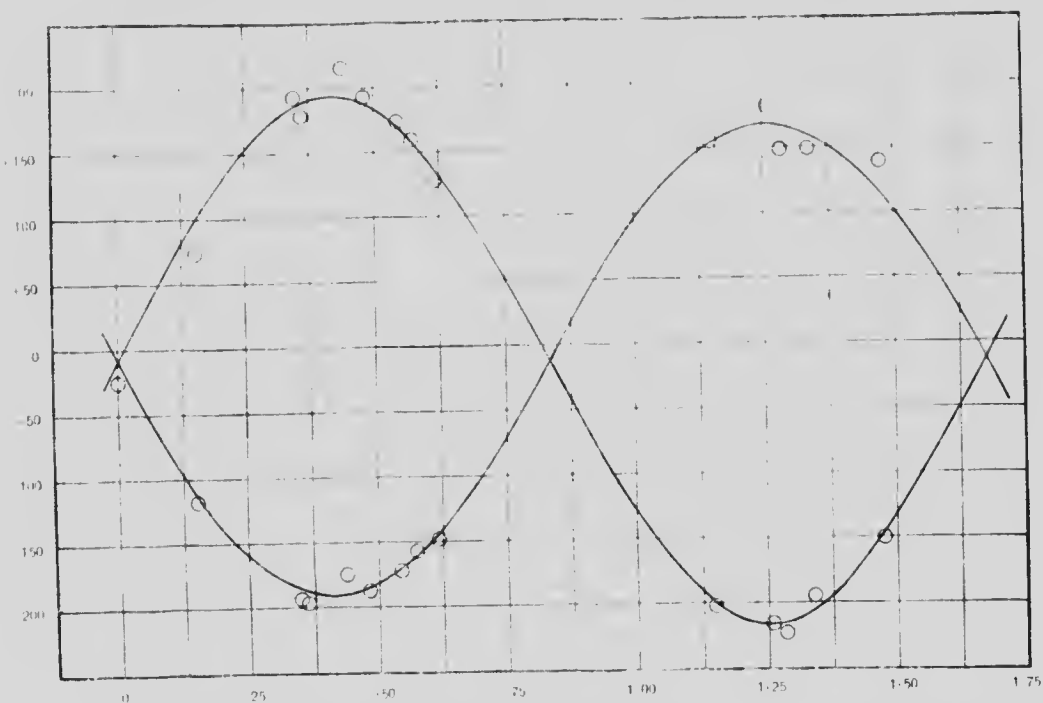


Fig. 1. U Ophiuchi

If we assume the surface intensity of a B5 star to be -2.5 magnitudes,¹ the sun's absolute magnitude to be 4.86 , the absolute magnitude of the brighter component of

¹ Astrophysical Journal 40, p. 415, 1944.