

Two plates have been omitted in the discussion, one, 2098, which gives a residual of 25 km. where the curve is well-defined in the flat part. This is probably owing to some instrumental error. The other case is that of plate 1315 which was taken immediately following plate 1314 under almost identical conditions and yet gives a decidedly greater positive velocity. The plate is somewhat underexposed, but there would seem to be some additional cause for the great difference in velocity, and as these observations occur around periastron, this was one reason why a continuous series of plates at this phase was much wished for. The intention is to make more plates next season at this critical place in the curve. The remaining 117 plates form the basis of this discussion and the data regarding them is contained in the table following. The phases are reckoned from the periastron finally accepted, Julian Date 2,417,975.16, and the residuals are scaled to about ± 0.2 km. from the curve representing the final elements.

MEASURES OF ν ORIONIS

Plate	Julian Date	Phase	Velocity	Weight	Observer	O - C
1140	2,417.891.93	48.03	+ 5.0	4	H	- 4.4
1160	903.78	59.88	+ 12.0	3	P	+ 3.4
1184	914.92	71.02	+ 4.5	5	P	- 4.3
1185	914.95	71.05	+ 3.9	5	P	- 4.9
1197	938.73	94.85	+ 12.6	6	P	- 0.3
1198	938.75	94.85	+ 15.2	4	P	+ 2.3
1217	944.73	100.83	+ 18.1	6	P	+ 2.7
1223	954.81	110.91	+ 23.8	5	P	+ 1.1
1224	954.84	110.94	+ 30.6	5	P	+ 7.9
1229	955.84	111.94	+ 28.1	3	H	+ 5.3
1235	957.54	113.64	+ 22.5	4	H	- 1.5
1250	961.71	117.81	+ 37.6	6	P	+ 4.8
1251	961.73	117.83	+ 36.5	3	H	+ 3.7
1261	963.78	119.88	+ 37.4	5	P	0.0
1273	965.59	121.69	+ 41.4	6	P	- 1.3
1282	968.58	124.68	+ 52.6	4	P	- 1.6
1302	970.65	126.75	+ 51.0	7	H	- 11.5
1303	970.67	126.77	+ 60.4	6	H	- 2.1
1314	975.62	0.46	+ 73.5	4	H	- 2.7
1320	980.70	5.54	+ 56.1	7	P	+ 0.5
1325	989.65	14.49	+ 29.5	6	H	+ 0.7
1326	989.66	14.50	+ 14.7	3	H	- 15.5
1335	992.57	17.41	+ 22.5	5	P	- 2.1
1337	993.69	18.53	+ 30.8	7	P	+ 7.6