

Beobachtungen des Cometen b 1877.

The following observations of Comet b 1877 were made with the Transit Circle of the U. S. Naval Observatory.

Date	Observer	α	N. P. D.
1877 May 12.5	Eastman	2 ^h 47 ^m 24 ^s .16	79° 45' 48".5
" 14.5	Skinner	4.27.49.66	80. 6.12.7
" 18.6	Skinner	6.52.13.45	76.27.24.5

Naval Observatory Washington June 22., 1877.

J. R. Eastman.

Elements of $\textcircled{164}$ Eva.

With the aid of the approximate elements published in Circular zum Berliner Jahrbuch No., 68, the following normals were obtained from observations given in Circular Nos 53 and 57.

Washington M. T.	α	d
1876, July 13.8	15 ^h 55 ^m 19 ^s .23	— 22° 9' 59".4
20.7	15.52.35.52	22.59.33.0
26.2	15.51.34.35	— 23.39.38.6

These gave the following elements —

Epoch, 1876 July 14 0 Washington M. T.

M 298° 47' 57".8	}	1876.0
ω 283.11.51.2		
Ω 77.29.12.3		
i 24.26.20.5		
φ 19.41.50.3		
μ 847".074		
log a 0.4147234.		

With the aid of these elements normals were again formed from the same observations.

Washington M. T.	α	d
1876, July 14.0	15 ^h 55 ^m 11 ^s .31	— 22° 11' 6".8
20.0	15.52.45.83	22.54.10.8
26.0	15 51.33.51	— 23.37.52.0.

These gave the following elements —

Epoch 1876, July 14.0, Washington M. T.

M 298° 15' 45".65	}	1876.0
ω 283.31.11.77		
Ω 77.29. 0.46		
i 24.28.59.57		
φ 19.34.53.41		
μ 850".555		
log a 0.4135360.		

Cincinnati Observatory, June 9. 1877.

Winslow Upton.