

was a halo of reflexion. It could not be possible to confuse the two curves on this occasion, so distinct were both of them.

Mr. C. W. Nash, the provincial naturalist, related to me that he saw an elliptic halo, along with the ordinary first circle, in a halo of the sun, on Lake Manitoba, in December, 1884, but his observation was never published. This was the only specific example of the ellipse in his experience. The halo began with the ellipse in the morning and kept changing, the circle finally being left. The half-breed who was with him as driver, said that a big storm would follow, and that they should keep near the shore. Sure enough, it was followed later in the day by a terrible blizzard.

The only other account I have met in Canadian records, of a halo bearing any resemblance to the one I reported in 1904, was a solar halo recorded by Mr. A. Clifford Thomson, P.L.S., in the *Canadian Journal* for September, 1861, with a diagram which I reproduce here (Fig. 3). He describes the halo as "Seven mock



FIG. 3

Halo observed on the Muskoka River, Ont., Nov. 10, 1861,
by A. Clifford Thomson, P.L.S.

suns." The Toronto Observatory record reported a lunar halo for the same date, Nov. 10, 1861, at 8 p.m., but otherwise no unusual features were noted at Toronto.