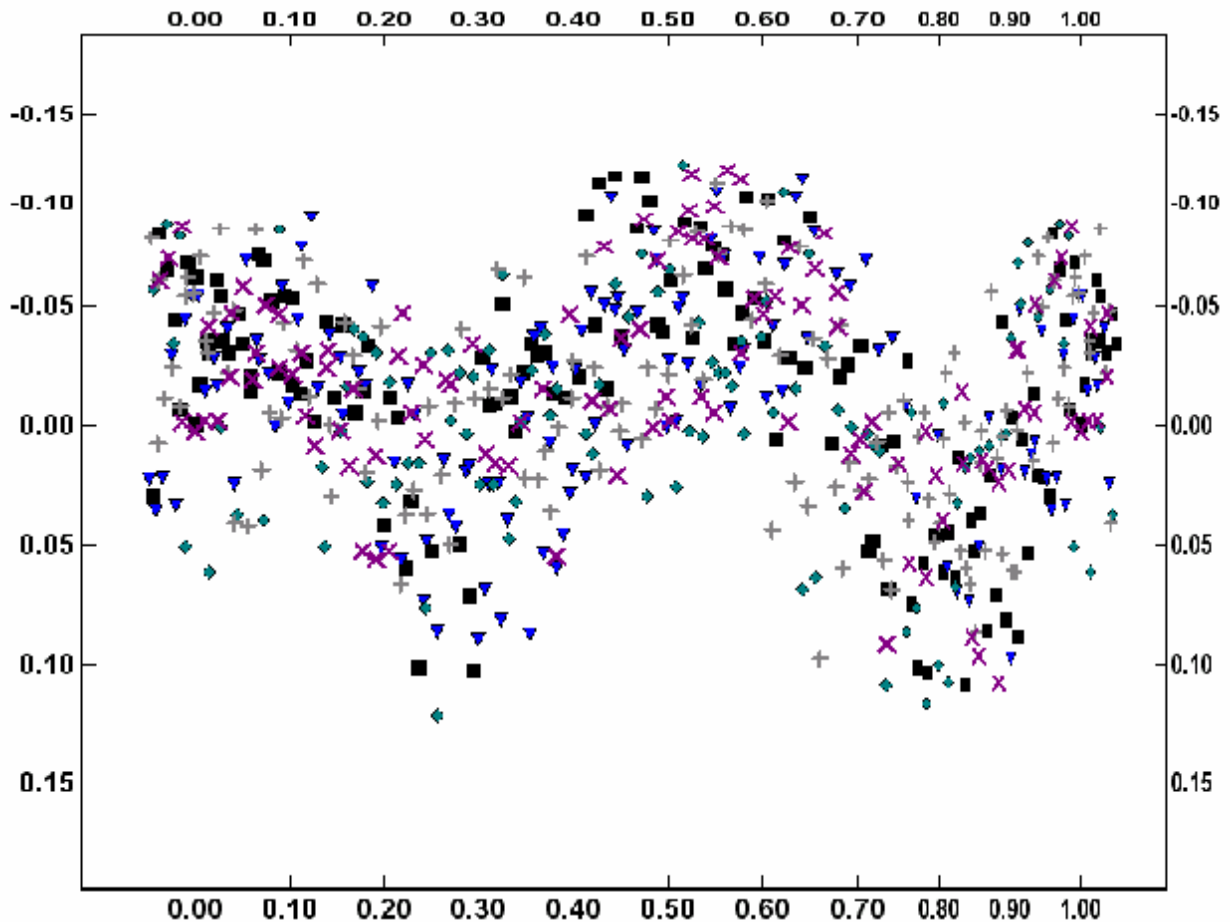


1656 Suomi



Period: $2.59 \pm .01$

Amplitude: $.20 \pm .04$

Dates Observed: April 27 to May 02, 2004

Number of Sessions: 5

Number of Observations: 573

Instruments: .35 meter F/11 SCT with a SBIG ST1001e CCD Camera

Notes: Discovered March 11, 1942 by Y. Väisälä at Turku, Alikoski is a Hungaria Family asteroid with an estimated radius of 4 km. Suomi is named in honor of Finland, the country in which it was discovered.

Litva was originally reported to have a period of 2.42 hours in a paper published in Icarus, Volume 126, Issue 2, April 1997, pages 395-449 by W. Z. Wisniewski, T. M. Michajowki, A. W. Harris and R. S. McMillan. They observed the asteroid on one night in 1991 and on another single night in 1992. They noted that the 1991 curve was consistent with the 1992 period, but was not by itself capable of yielding a unique

period. They also noted that there remained some possibility that the lightcurve has three or even four pairs of extrema. The original period was reported with a quality code of the period as a 2, where the result is a reasonable composite showing roughly half or more of a complete cycle and there may be some ambiguity with alias periods.

This asteroid was selected from the list of Potential Lightcurve Targets maintained at the CALL site (<http://www.minorplanetobserver.com/astlc/default.htm>) by Brian Warner. It was selected because of the high altitude and the '2' uncertainty rating.

The period ended up being within 7% of the originally reported period. A high density of observations was obtained on each of five nights clearly defining the maximums and minimums. Each separate night of observations covered over two rotations of the asteroids. The low amplitude and noisiness of the data made it difficult to clearly define the period, however, after five nights of data, the maximums and minimums could be clearly seen in the phased light curve.

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