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V. Chiorny, Kharkiv Observatory; V. Benishek, Belgrade Astronomical Observatory, Serbia; P. Pravec and P. Kusnirak, Ondrejov Observatory; Yu. N. Krugly, Kharkiv Observatory; J. Oey and R. Groom, Blue Mountains Observatory, Leura, NSW, Australia; V. Reddy, Planetary Science Institute; D. Pray, Sugarloaf Mountain Observatory, South Deerfield, MA, U.S.A.; W. Cooney and J. Gross, Sonoita Research Observatory, Sonoita, AZ, U.S.A.; D. Terrell, Southwest Research Institute; R. Inasaridze, V. Ayvazian and V. Zhuzhanidze, Abastumani Observatory; R. Montaigut and A. Leroy, OPERA Observatory, France; and I. Molotov, Keldysh Institute of Applied Mathematics, Moscow, report that photometric observations obtained during May 19-July 23 reveal that minor planet (8474) is a binary system with an orbital period of 30.54 +/- 0.01 hr. Mutual eclipse/occultation events that are 0.60- to 0.93-magnitude deep indicate a lower limit on the secondary-to-primary mean-diameter ratio of 0.86. Rotations of the components appear to be synchronous with the orbital motion and an amplitude of the combined primary plus secondary rotational lightcurve is 0.34 mag at solar phases 7-15 deg.