Two of the Ephemeris constants recently changed (PCN 707.2) are incorrect. The constants are used to compute the unit position vector of the moon with respect to the earth in reference coordinates by the lunar and solar EPHEMERIDES routine. The GSOP names of the two constants (see Section 5.5.4 of R-567) are LOMR and A. The program names are RATESP and VAL67, respectively.

Incorrect S-band antenna angle computations in R05.

Human Error.

(1) Incorrect S-band antenna angle display in V64.
(2) Possible incorrect star choice by PICAPAR.

R05 is unusable.

(1) Don't use R05.
(2) Don't use PICAPAR.

N/A

Correct two constants:
VAL67 is .072663888 B+1 and should be .0172666666 B+1.
RATESP is .0366098 B+4 and should be .03660098 B+4.

Fix.

Retest R05 and alignments with PICAPAR.

Fixed in LUMINARY (Rev 97).