

MIT/IL SOFTWARE ANOMALY REPORT

MIT REPORT NO. LNY60
PROGRAM LUMINARY
PROGRAM REVISION 69

1.1 ORIGINATOR: C. SCHULENBERG	1.2 ORGANIZATION: MIT/IL	1.3 DATE: 4/14/69	1.4 ORIGINATOR CONTROL NO.
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1.5 DESCRIPTION OF ANOMALY:

The constant labeled (APO) in P12 should correspond to 55,560 meters instead of the current 55,597.5 meters. This number, after being scaled to nautical miles by PINBALL, appears in R2 of Noun 76 in P12.

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1.6 DESCRIPTION OF RUN:

The improper scale factor was noted in the TRW report entitled Comments on Rev 1 of Luminary Section 4 GSOP (Task A-201, February 17, 1969).

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- MIT ANALYSIS -

2.1 CAUSE:

In determining the value of the constant the standard nautical mile (1853.2 meters) was used instead of the international nautical mile (1852 meters).

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2.2 RECOGNITION:

NA

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2.3 MISSION EFFECT:

NA

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2.4 AVOIDANCE PROCEDURE:

NA

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2.5 RECOVERY PROCEDURE:

NA

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2.6 PROGRAM CORRECTION:

Correct constant.

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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):

There is no effect for Mission F (Rev 69) because P12 will not be used. The problem does not exist for Mission G (Rev 97) because of PCR #270.

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2.8 RECOMMENDED RE-TESTING:

NA

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2.9 MIT/IL SIGNATURE: <i>George W. Cherry</i>	2.10 DATE: 4/15/69
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3.1 NASA DIRECTION:

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4.1 CLOSING ACTION TAKEN:

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3.2 NAS/MSC SIGNATURE:	3.3 ORGANIZATION:	3.4 DATE:	4.2 SIGNATURE:	4.3 ORGANIZATION:	4.4 DATE:
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