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## Z CHAMAELEONTIS

Photoelectric observations of this U Geminorum variable made with the 91-centimeter Cassegrain reflector at Cerro Tololo Inter-American Observatory show it to be an eclipsing binary.

Details concerning the 8 observed minima are presented below. Times of minima are best satisfied by the light elements

$$\text{Min} = \text{JD } 244\,0264.6826 + 0^{d}074502\ E.$$

Observations of Z Chamaeleontis

| Minima | E | O - C | Depth (1) | Depth (2) |
|---|---|---|---|---|
| 244 0264.6826 | 0 | 0.0000 | 1.86 | 1.57 |
| 0265.7259 | 14 | +0.0003 | 2.11 | 1.97 |
| 0265.8002 | 15 | +0.0001 | 1.70 | 1.50 |
| 0267.5880 | 39 | -0.0002 | 1.93 | 1.47 |
| 0269.6741 | 67 | -0.0001 | 2.06 | 1.81 |
| 0269.7488 | 68 | +0.0001 | -- | -- |
| 0272.5798 | 106 | 0.0000 | 1.74 | 1.32 |
| 0274.7404 | 135 | 0.0000 | 1.73 | 1.36 |

Light curves indicate that the entire eclipse lasts some 7 minutes, with minimum being 2.5 to 3 minutes long. In all cases, the descending branch of the light curves is not as steep as the ascending one.

The last two columns of the table give the mean depth of minimum relative to the average brightness of the system before and after eclipse, respectively, in blue light. No value is given for eclipse 68 as the sky became overcast shortly after this minimum had taken place.

Further details on this interesting object will be published elsewhere.

Medford, Massachusetts
March 10, 1969

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