

TABLE II

| Wave-length | Int. | Element  | Wave-length | Int. | Element  |
|-------------|------|----------|-------------|------|----------|
| 2307.5 A.U. | 8    | Carbon   | 1619 A.U.   | 1    | Selenium |
| 2165        | 10   | Selenium | 1615        | 2    | "        |
| 38          | 2    | "        | 09          | 1    | "        |
| 2073        | 10   | "        | 04          | 3    | "        |
| 51          | 10   | "        | 1591        | 1    | "        |
| 38          | 10   | "        | 85          | 2    | "        |
| 1993        | 2    | "        | 78          | 2    | "        |
| 60          | 8    | "        | 61          | 10   | Carbon   |
| 30          | 8    | Carbon   | 48          | 1    | Carbon   |
| 17          | 4    | Selenium | 33          | 1    | Selenium |
| 14          | 4    | "        | 31          | 1    | "        |
| 1898        | 6    | "        | 30          | 1    | "        |
| 59          | 8    | "        | 03          | 1    | "        |
| 55          | 8    | "        | 1474        | 1    | "        |
| 1761        | 2    | "        | 68          | 1    | "        |
| 52          | 1    | "        | 65          | 3    | Carbon   |
| 1691        | 2    | "        | 58          | 1    | Selenium |
| 75          | 3    | "        | 51          | 1    | "        |
| 71          | 3    | "        | 48          | 1    | "        |
| 56          | 10   | Carbon   | 46          | 3    | "        |
| 25          | 1    | Selenium | 37          | 3    | "        |
| 21          | 1    | "        | 30          | 1    | "        |

Owing to the difficulty of securing sufficient vapour density around arcs in vacuo it was found impossible to obtain any reversals in the arc spectrum so that no conclusions can be made from the point of view of absorption about the series of selenium in this region of the ultra-violet.

#### SUMMARY

1. Thirty new lines have been recorded in the selenium arc spectrum between  $\lambda = 2300$  A.U. and  $\lambda = 1400$  A.U.

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