

TABLE X CHI SQUARE TEST OF REVISED KNOWN VS UNKNOWN ON THE BASIS OF SHAPE

| Shape                            | Number of KNOWN | Adjusted Number of KNOWN (K) | Number of UNKNOWN (n) | $\frac{X^2}{K}$ |
|----------------------------------|-----------------|------------------------------|-----------------------|-----------------|
| Elliptical                       | 632             | 213                          | 195                   | 1.52            |
| Rocket or aircraft               | 72              | 24                           | 33                    | 3.37            |
| Meteor or comet                  | 9               | 3                            | 4                     | 1.32            |
| Flame                            | 47              | 16                           | 10                    |                 |
| Teardrop, lenticular, or conical | 79              | 27                           | 22                    | 0.93            |
| Other                            | 151             | 51                           | 54                    | 1.76            |
| Not stated                       | 296             | 100                          | 116                   | 2.56            |
| Total                            | 1286            | 434                          | 434                   | 11.46           |
| Degrees of freedom               |                 |                              |                       | 5               |
| 5%                               |                 |                              |                       | 11.1            |
| 1%                               |                 |                              |                       | 15.1            |

TABLE XI CHI SQUARE TEST OF REVISED KNOWN VS UNKNOWN ON THE BASIS OF DURATION OF OBSERVATION

| Duration of Observation | Number of KNOWN | Adjusted Number of KNOWN (K) | Number of UNKNOWN (n) | $\frac{X^2}{K}$ |
|-------------------------|-----------------|------------------------------|-----------------------|-----------------|
| 5 sec or less           | 92              | 31                           | 27                    | 0.52            |
| 6-10 sec                | 47              | 16                           | 21                    | 1.56            |
| 11-30 sec               | 118             | 40                           | 33                    | 1.23            |
| 31-60 sec               | 92              | 31                           | 42                    | 3.90            |
| 61 sec-5 min            | 252             | 85                           | 99                    | 2.31            |
| 6 min-30 min            | 259             | 87                           | 71                    | 2.94            |
| Over 30 min             | 91              | 31                           | 37                    | 1.16            |
| Not stated              | 335             | 113                          | 104                   | 0.72            |
| Total                   | 1286            | 434                          | 434                   | 14.34           |
| Degrees of freedom      |                 |                              |                       | 7               |
| 5%                      |                 |                              |                       | 14.1            |
| 1%                      |                 |                              |                       | 18.5            |

TABLE XII CHI SQUARE TEST OF REVISED KNOWN VS UNKNOWN ON THE BASIS OF SPEED

| Speed              | Number of KNOWN | Adjusted Number of KNOWN (K) | Number of UNKNOWN (n) | $\frac{X^2}{K}$ |
|--------------------|-----------------|------------------------------|-----------------------|-----------------|
| Stationary         | 196             | 66                           | 53                    | 2.56            |
| Less than 100 mph  | 128             | 43                           | 26                    | 6.72            |
| 100 to 400 mph     | 156             | 53                           | 58                    | 0.47            |
| Over 400 mph       | 291             | 98                           | 145                   | 28.54           |
| Meteor-like        | 24              | 8                            | 16                    |                 |
| Not stated         | 491             | 166                          | 136                   | 5.42            |
| Total              | 1286            | 434                          | 434                   | 43.71           |
| Degrees of freedom |                 |                              |                       | 4               |
| 5%                 |                 |                              |                       | 9.5             |
| 1%                 |                 |                              |                       | 13.3            |

TABLE XIII CHI SQUARE TEST OF REVISED KNOWN VS UNKNOWN ON THE BASIS OF LIGHT BRIGHTNESS

| Light Brightness                    | Number of KNOWN | Adjusted Number of KNOWN (K) | Number of UNKNOWN (n) | $\frac{X^2}{K}$ |
|-------------------------------------|-----------------|------------------------------|-----------------------|-----------------|
| Sunlight on mirror                  | 24              | 8                            | 14                    | 2.67            |
| Sunlight on aluminum                | 136             | 46                           | 28                    |                 |
| Sunlight on plaster, stone, or soil | 63              | 21                           | 16                    | 1.19            |
| Brighter than moon                  | 143             | 48                           | 61                    | 3.52            |
| Like moon or duller than moon       | 42              | 15                           | 22                    | 3.27            |
| Not stated                          | 878             | 296                          | 293                   | 0.03            |
| Total                               | 1286            | 434                          | 434                   | 10.68           |
| Degrees of freedom                  |                 |                              |                       | 4               |
| 5%                                  |                 |                              |                       | 9.              |
| 1%                                  |                 |                              |                       | 13.3            |