|  |  |
| --- | --- |
| **EV** | **LUX** |
| -3 | .31 |
| -2 | .63 |
| -1 | 1.3 |
| 0 | 2.5 |
| 1 | 5 |
| 2 | 10 |
| 3 | 20 |
| 4 | 40 |
| 5 | 80 |
| 6 | 160 |
| 7 | 320 |
| 8 | 640 |
| 9 | 1300 |
| 10 | 2600 |
| 11 | 5100 |
| 12 | 10000 |
| 13 | 20000 |
| 14 | 41000 |
| 15 | 82000 |
| 16 | 160000 |
| 17 | 330000 |

|  |  |
| --- | --- |
| **EV** | **TYPE OF LIGHTING SITUATION** |
| -6 | Night, away from city lights, subject under starlight only. |
| -5 | Night, away from city lights, subject under crescent moon. |
| -4 | Night, away from city lights, subject under half moon. Meteors (during showers, with time exposure). |
| -3 | Night, away from city lights, subject under full moon. |
| -2 | Night, away from city lights, snowscape under full moon. |
| -1 | Subjects lit by dim ambient artificial light. |
| 0 | Subjects lit by dim ambient artificial light. |
| 1 | Distant view of lighted skyline. |
| 2 | Lightning (with time exposure). Total eclipse of moon. |
| 3 | Fireworks (with time exposure). |
| 4 | Candle lit close-ups. Christmas lights, floodlit buildings, fountains, and monuments. Subjects under bright street lamps. |
| 5 | Night home interiors, average light. School or church auditoriums. Subjects lit by campfires or bonfires. |
| 6 | Brightly lit home interiors at night. Fairs, amusement parks. |
| 7 | Bottom of rainforest canopy. Brightly lighted nighttime streets. Indoor sports. Stage shows, circuses. |
| 8 | Las Vegas or Times Square at night. Store windows. Campfires, bonfires, burning buildings. Ice shows, football, baseball etc. at night. Interiors with bright florescent lights. |
| 9 | Landscapes, city skylines 10 minutes after sunset. Neon lights, spotlighted subjects. |
| 10 | Landscapes and skylines immediately after sunset. Crescent moon (long lens). |
| 11 | Sunsets. Subjects in deep shade. |
| 12 | Half moon (long lens). Subject in open shade or heavy overcast. |
| 13 | Gibbous moon (long lens). Subjects in cloudy-bright light (no shadows). |
| 14 | Full moon (long lens). Subjects in weak, hazy sun. |
| 15 | Subjects in bright or hazy sun (Sunny f/16 rule). |
| 16 | Subjects in bright daylight on sand or snow. |
| 17 | Rarely encountered in nature. Some man made lighting. |
| 22 | Rarely encountered in nature. Some man made lighting. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***ISO values*** | | | | | | | |  | ***Aperture values and Shutter speeds*** | | | | | | | | | |  |
| **E**  **V**  **N**  **U**  **M**  **B**  **E**  **R**  **S** | **25** | **50** | **100** | **200** | **400** | **800** | **1600** | **3200** |  | ***f*/1.4** | ***f*/2.0** | ***f*/2.8** | ***f*/4** | ***f*/5.6** | ***f*/8** | ***f*/11** | ***f*/16** | ***f*/22** | ***f*/32** | **S**  **H**  **U**  **T**  **T**  **E**  **R**  **S**  **P**  **E**  **E**  **D**  **S** |
| 1 | 0 | -1 | -2 | -3 | -4 | -5 | -6 |  | 4 | 8 | 15 | 30 | 1 m | 2 m | 4 m | 8 m | 16 m | 32 m |
| 2 | 1 | 0 | -1 | -2 | -3 | -4 | -5 |  | 2 | 4 | 8 | 15 | 30 | 1 m | 2 m | 4 m | 8 m | 16 m |
| 3 | 2 | 1 | 0 | -1 | -2 | -3 | -4 |  | 1 | 2 | 4 | 8 | 15 | 30 | 1 m | 2 m | 4 m | 8 m |
| 4 | 3 | 2 | 1 | 0 | -1 | -2 | -3 |  | 1/2 | 1 | 2 | 4 | 8 | 15 | 30 | 1 m | 2 m | 4 m |
| 5 | 4 | 3 | 2 | 1 | 0 | -1 | -2 |  | 1/4 | 1/2 | 1 | 2 | 4 | 8 | 15 | 30 | 1 m | 2 m |
| 6 | 5 | 4 | 3 | 2 | 1 | 0 | -1 |  | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 | 8 | 15 | 30 | 1 m |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |  | 1/15 | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 | 8 | 15 | 30 |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  | 1/30 | 1/15 | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 | 8 | 15 |
| 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 |  | 1/60 | 1/30 | 1/15 | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 | 8 |
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 |  | 1/125 | 1/60 | 1/30 | 1/15 | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 |
| 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 |  | 1/250 | 1/125 | 1/60 | 1/30 | 1/15 | 1/8 | 1/4 | 1/2 | 1 | 2 |
| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 |  | 1/500 | 1/250 | 1/125 | 1/60 | 1/30 | 1/15 | 1/8 | 1/4 | 1/2 | 1 |
| 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 |  | 1/1000 | 1/500 | 1/250 | 1/125 | 1/60 | 1/30 | 1/15 | 1/8 | 1/4 | 1/2 |
| 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 |  | 1/2000 | 1/1000 | 1/500 | 1/250 | 1/125 | 1/60 | 1/30 | 1/15 | 1/8 | 1/4 |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |  | 1/4000 | 1/2000 | 1/1000 | 1/500 | 1/250 | 1/125 | 1/60 | 1/30 | 1/15 | 1/8 |
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |  | 1/8000 | 1/4000 | 1/2000 | 1/1000 | 1/500 | 1/250 | 1/125 | 1/60 | 1/30 | 1/15 |
| 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 |  | 1/15000 | 1/8000 | 1/4000 | 1/2000 | 1/1000 | 1/500 | 1/250 | 1/125 | 1/60 | 1/30 |
| 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 |  | 1/30000 | 1/15000 | 1/8000 | 1/4000 | 1/2000 | 1/1000 | 1/500 | 1/250 | 1/125 | 1/60 |
| 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 |  | 1/60000 | 1/30000 | 1/15000 | 1/8000 | 1/4000 | 1/2000 | 1/1000 | 1/500 | 1/250 | 1/125 |
| 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |  | 1/125000 | 1/60000 | 1/30000 | 1/15000 | 1/8000 | 1/4000 | 1/2000 | 1/1000 | 1/500 | 1/250 |
| 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |  | 1/250000 | 1/125000 | 1/60000 | 1/30000 | 1/15000 | 1/8000 | 1/4000 | 1/2000 | 1/1000 | 1/500 |
| 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 |  | 1/500000 | 1/250000 | 1/125000 | 1/60000 | 1/30000 | 1/15000 | 1/8000 | 1/4000 | 1/2000 | 1/1000 |
| 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |  | 1/1000000 | 1/500000 | 1/250000 | 1/125000 | 1/60000 | 1/30000 | 1/15000s | 1/8000 | 1/4000 | 1/2000 |