

| NUMBER OF FLASH OR ON TIME | f STOP CHANGE                                 |       | WATT SECONDS OF POWER FOR OVER LAPPING FLASHES OR LOSS FOR SHORT DURATION |     |      |      | FLASH NEEDED FOR FULL POWER AT HI SPEED | FOR ASA 100 Film<br>10 FEET FLASH TO SUBJECT |        |        |
|----------------------------|---|-------|---|-----|------|------|---|--|--------|--------|
|                            | AT 60 WS or 2,400 BCPS for ASA 100 at 10 feet |       |   |     |      |      |   | WATT SECONDS OF FLASH POWER TO BCPS          | f STOP | GUIDE# |
| 32 FLASH                   | -5  | f 64  | 480   | 960 | 1920 | 3840 |   | 7.5 WATTS                                    | f 4.0  | 45     |
| 16 FLASH                   | -4  | f 45  | 240   | 480 | 960  | 1920 |   | 300 BCPS                                     |        |        |
| 8 FLASH                    | -3  | f 32  | 120   | 240 | 480  | 960  |   | 15 WATTS                                     | f 5.6  | 62     |
| 4 FLASH                    | -2  | f 22  | 60  | 120 | 240  | 480  |   | 600 BCPS                                     |        |        |
| 2 FLASH                    | -1  | f 16  | 30  | 60  | 120  | 240  |   | 30 WATTS                                     | f 8.0  | 90     |
| 1/1,000                    | +0  | f 11  | 15  | 30  | 60   | 120  | 1                                       | 1,200 BCPS                                   |        |        |
| 1/2,000                    | +1  | f 8.0 | 7.5   | 15  | 30   | 60   | 2                                       | 60 WATTS                                     | f 11   | 120    |
| 1/4,000                    | +2  | f 5.6 | 3.8   | 7.5 | 15   | 30   | 4                                       | 2,400 BCPS                                   |        |        |
| 1/8,000                    | +3  | f 4.0 | 1.9   | 3.8 | 7.5  | 15   | 8                                       | 120 WATTS                                    | f 16   | 175    |
| 1/16,000                   | +4  | f 2.8 | .94   | 1.9 | 3.8  | 7.5  | 16                                      | 4,800 BCPS                                   |        |        |
| 1/32,000                   | +5  | f 2.0 | .47   | .94 | 1.9  | 3.8  | 32                                      | 240 WATTS                                    | f 22   | 240    |
| 1/64,000                   | +6  | f 1.4 | .32   | .47 | .94  | 1.9  | 64                                      | 9,600 BCPS                                   |        |        |
| 1/128,000                  | +7  | f 1.0 | .16   | .32 | .47  | .94  | 128                                     | 480 WATTS                                    | f 32   | 350    |
|                            |   |       |   |     |      |      |   | 19,200 BCPS                                  |        |        |
|                            |   |       |   |     |      |      |   | 960 WATTS                                    | f 45   | 480    |
|                            |   |       |   |     |      |      |   | 38,400 BCPS                                  |        |        |

| FILM SPEED | DIN | f STOP CHANGE | GUIDE # FOR 60 WS FLASH<br>Uivitar 283/285 at 50mm |
|------------|-----|---------------|--|
| 25         | 15  | -2            | 60   |
| 50         | 18  | -1            | 85   |
| 100        | 21  | +0            | 120  |
| 200        | 24  | +1            | 170  |
| 400        | 27  | +2            | 240  |
| 800        | 30  | +3            | 340  |
| 1600       | 33  | +4            | 480  |
| 3200       | 36  | +5            | 680  |

