

**f-stop for eight 283/285 flash units full power**

**1/1,000**

feet	ASA							
	25	50	100	200	400	800	1600	3200
160	1.0	1.4	2.0	2.8	4.0	5.6	8.0	11.0
135	1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5
113	1.4	2.0	2.8	4.0	5.6	8.0	11.0	16.0
95	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5
80	2.0	2.8	4.0	5.6	8.0	11.0	16.0	22
68	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5
57	2.8	4.0	5.6	8.0	11.0	16.0	22	32
48	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5
40	4.0	5.6	8.0	11.0	16.0	22	32	45
34	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5
29	5.6	8.0	11.0	16.0	22	32	45	64
24	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5
20	8.0	11.0	16.0	22	32	45	64	90
17	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5	90-5
14	11.0	16.0	22	32	45	64	90	128
12	11-5	16-5	22-5	32-5	45-5	64-5	90-5	128-5
10	16.0	22	32	45	64	90	128	180
8.6	16-5	22-5	32-5	45-5	64-5	90-5	128-5	180-5
7.2	22	32	45	64	90	128	180	256
6.1	22-5	32-5	45-5	64-5	90-5	128-5	180-5	256-5
5.1	32	45	64	90	128	180	256	360
4.3	32-5	45-5	64-5	90-5	128-5	180-5	256-5	360-5
3.6	45	64	90	128	180	256	360	512
3.0	45-5	64-5	90-5	128-5	180-5	256-5	360-5	512-5
2.6	64	90	128	180	256	360	512	720

**FULL POWER f STOP CORRECTION**

NUMBER OF FLASH UNITS	<b>1</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>16</b>
F STOP FOR ASA 100 AT 10 FEET	<b>11</b>	<b>16</b>	<b>22</b>	<b>32</b>	<b>64</b>
F STOP gain for added units	ref	+1	+2	+3	+4

**f-stop for eight 283/285 flash units 1/2 power 1/2,000 -1 stop**

feet	ASA							
	25	50	100	200	400	800	1600	3200
160		1.0	1.4	2.0	2.8	4.0	5.6	8.0
135		1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5
113	1.0	1.4	2.0	2.8	4.0	5.6	8.0	11.0
95	1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5
80	1.4	2.0	2.8	4.0	5.6	8.0	11.0	16.0
68	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5
57	2.0	2.8	4.0	5.6	8.0	11.0	16.0	22
48	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5
40	2.8	4.0	5.6	8.0	11.0	16.0	22	32
34	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5
29	4.0	5.6	8.0	11.0	16.0	22	32	45
24	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5
20	5.6	8.0	11.0	16.0	22	32	45	64
17	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5
14	8.0	11.0	16.0	22	32	45	64	90
12	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5	90-5
10	11.0	16.0	22	32	45	64	90	128
8.6	11-5	16-5	22-5	32-5	45-5	64-5	90-5	128-5
7.2	16.0	22	32	45	64	90	128	180
6.1	16-5	22-5	32-5	45-5	64-5	90-5	128-5	180-5
5.1	22	32	45	64	90	128	180	256
4.3	22-5	32-5	45-5	64-5	90-5	128-5	180-5	256-5
3.6	32	45	64	90	128	180	256	360
3.0	32-5	45-5	64-5	90-5	128-5	180-5	256-5	360-5
2.6	45	64	90	128	180	256	360	512

**8 FLASH UNITS AT 1/2 POWER = 4 FLASH UNITS AT FULL POWER,  
OR X 1 NEUTRAL DENSITY FILTER [TABLE CORRECTION FOR FLASH ONLY]**

**f-stop for eight 283/285 flash units 1/4 power      1/4,000      -2 stops**

feet	ASA							
	25	50	100	200	400	800	1600	3200
160			1.0	1.4	2.0	2.8	4.0	5.6
135			1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5
113		1.0	1.4	2.0	2.8	4.0	5.6	8.0
95		1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5
80	1.0	1.4	2.0	2.8	4.0	5.6	8.0	11.0
68	1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5
57	1.4	2.0	2.8	4.0	5.6	8.0	11.0	16.0
48	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5
40	2.0	2.8	4.0	5.6	8.0	11.0	16.0	22
34	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5
29	2.8	4.0	5.6	8.0	11.0	16.0	22	32
24	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5
20	4.0	5.6	8.0	11.0	16.0	22	32	45
17	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5
14	5.6	8.0	11.0	16.0	22	32	45	64
12	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5
10	8.0	11.0	16.0	22	32	45	64	90
8.6	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5	90-5
7.2	11.0	16.0	22	32	45	64	90	128
6.1	11-5	16-5	22-5	32-5	45-5	64-5	90-5	128-5
5.1	16.0	22	32	45	64	90	128	180
4.3	16-5	22-5	32-5	45-5	64-5	90-5	128-5	180-5
3.6	22	32	45	64	90	128	180	256
3.0	22-5	32-5	45-5	64-5	90-5	128-5	180-5	256-5
2.6	32	45	64	90	128	180	256	360

**4 FLASH UNITS AT 1/2 POWER = 2 FLASH UNITS AT FULL POWER,  
OR X 2 NEUTRAL DENSITY FILTER [TABLE CORRECTION FOR FLASH ONLY]**

f-stop for eight 283/285 flash units 1/8 power [not available]

-3 stops

feet	ASA							
	25	50	100	200	400	800	1600	3200
160				1.0	1.4	2.0	2.8	4.0
135				1.0-5	1.4-5	2.0-5	2.8-5	4.0-5
113			1.0	1.4	2.0	2.8	4.0	5.6
95			1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5
80		1.0	1.4	2.0	2.8	4.0	5.6	8.0
68		1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5
57	1.0	1.4	2.0	2.8	4.0	5.6	8.0	11.0
48	1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5
40	1.4	2.0	2.8	4.0	5.6	8.0	11.0	16.0
34	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5
29	2.0	2.8	4.0	5.6	8.0	11.0	16.0	22
24	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5
20	2.8	4.0	5.6	8.0	11.0	16.0	22	32
17	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5
14	4.0	5.6	8.0	11.0	16.0	22	32	45
12	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5
10	5.6	8.0	11.0	16.0	22	32	45	64
8.6	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5
7.2	8.0	11.0	16.0	22	32	45	64	90
6.1	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5	90-5
5.1	11.0	16.0	22	32	45	64	90	128
4.3	11-5	16-5	22-5	32-5	45-5	64-5	90-5	128-5
3.6	16.0	22	32	45	64	90	128	180
3.0	16-5	22-5	32-5	45-5	64-5	90-5	128-5	180-5
2.6	22	32	45	64	90	128	180	256

2 FLASH UNITS AT 1/2 POWER = 1 FLASH UNITS AT FULL POWER,  
OR X 3 NEUTRAL DENSITY FILTER [TABLE CORRECTION FOR FLASH ONLY]

**f-stop for eight 283/285 flash units 1/16 power 1/16,000 -4 stops**

feet	ASA							
	25	50	100	200	400	800	1600	3200
160					1.0	1.4	2.0	2.8
135					1.0-5	1.4-5	2.0-5	2.8-5
113				1.0	1.4	2.0	2.8	4.0
95				1.0-5	1.4-5	2.0-5	2.8-5	4.0-5
80			1.0	1.4	2.0	2.8	4.0	5.6
68			1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5
57		1.0	1.4	2.0	2.8	4.0	5.6	8.0
48		1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5
40	1.0	1.4	2.0	2.8	4.0	5.6	8.0	11.0
34	1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5
29	1.4	2.0	2.8	4.0	5.6	8.0	11.0	16.0
24	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5
20	2.0	2.8	4.0	5.6	8.0	11.0	16.0	22
17	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5
14	2.8	4.0	5.6	8.0	11.0	16.0	22	32
12	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5
10	4.0	5.6	8.0	11.0	16.0	22	32	45
8.6	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5
7.2	5.6	8.0	11.0	16.0	22	32	45	64
6.1	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5
5.1	8.0	11.0	16.0	22	32	45	64	90
4.3	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5	90-5
3.6	11.0	16.0	22	32	45	64	90	128
3.0	11-5	16-5	22-5	32-5	45-5	64-5	90-5	128-5
2.6	16.0	22	32	45	64	90	128	180

**1 FLASH UNITS AT 1/2 POWER  
OR X 4 NEUTRAL DENSITY FILTER [TABLE CORRECTION FOR FLASH ONLY]**

**f-stop for eight 283/285 flash units 1/30 power 1/30,000 -5 stops**

feet	ASA							
	25	50	100	200	400	800	1600	3200
160						1.0	1.4	2.0
135						1.0-5	1.4-5	2.0-5
113					1.0	1.4	2.0	2.8
95					1.0-5	1.4-5	2.0-5	2.8-5
80				1.0	1.4	2.0	2.8	4.0
68				1.0-5	1.4-5	2.0-5	2.8-5	4.0-5
57			1.0	1.4	2.0	2.8	4.0	5.6
48			1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5
40		1.0	1.4	2.0	2.8	4.0	5.6	8.0
34		1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5
29	1.0	1.4	2.0	2.8	4.0	5.6	8.0	11.0
24	1.0-5	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5
20	1.4	2.0	2.8	4.0	5.6	8.0	11.0	16.0
17	1.4-5	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5
14	2.0	2.8	4.0	5.6	8.0	11.0	16.0	22
12	2.0-5	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5
10	2.8	4.0	5.6	8.0	11.0	16.0	22	32
8.6	2.8-5	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5
7.2	4.0	5.6	8.0	11.0	16.0	22	32	45
6.1	4.0-5	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5
5.1	5.6	8.0	11.0	16.0	22	32	45	64
4.3	5.6-5	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5
3.6	8.0	11.0	16.0	22	32	45	64	90
3.0	8.0-5	11-5	16-5	22-5	32-5	45-5	64-5	90-5
2.6	11.0	16.0	22	32	45	64	90	128

**1 FLASH UNITS AT 1/4 POWER**