



$H = (l \times l) / (f \times d)$
 $I = \text{focal length}$
 $f = \text{aperture}$

$d = \text{circle of confusion diameter}$
 $d = 0.02501 \text{ for } 35\text{mm film}$
DOF from H/2 to Infinity

HYPERFOCAL DISTANCES	FOCAL LENGTH (mm)									
	17		20		24		28		35	
Aperture (f)	m	feet	m	feet	m	feet	m	feet	m	feet
1.4							22.2	72.7	34.6	113.6
2.0					11.5	37.8	15.7	51.4	24.5	80.3
2.8	4.1	13.4	5.7	18.6	8.1	26.7	11.1	36.4	17.3	56.8
4.0	2.9	9.5	4.0	13.1	5.8	18.9	7.8	25.7	12.2	40.2
5.6	2.0	6.7	2.8	9.3	4.1	13.4	5.5	18.2	8.7	28.4
8.0	1.4	4.7	2.0	6.6	2.9	9.4	3.9	12.9	6.1	20.1
11.0	1.0	3.4	1.4	4.6	2.0	6.7	2.8	9.1	4.3	14.2
16.0	0.7	2.4	1.0	3.3	1.4	4.7	2.0	6.4	3.1	10.0
22.0	0.5	1.7	0.7	2.3	1.0	3.3	1.4	4.5	2.2	7.1

HYPERFOCAL DISTANCES	FOCAL LENGTH (mm)									
	45		50		60		70		80	
Aperture (f)	m	feet	m	feet	m	feet	m	feet	m	feet
1.4			71	232					181	594
1.8			56	182					142	466
2			50	164					128	420
2.8	29	94	35	116	51	167	69	227	90	297
4	20	66	25	82	36	118	49	161	64	210
5.6	14	47	18	58	25	83	35	114	45	148
8	10	33	12	41	18	59	24	80	32	105
11	7	23	9	29	13	42	17	57	23	74
16	5	17	6	20	9	30	12	40	16	52
22	4	12	4	14	6	21	9	28	11	37

HYPERFOCAL DISTANCES	FOCAL LENGTH (mm)									
	105		135		180		200		240	
Aperture (f)	m	feet	m	feet	m	feet	m	feet	m	feet
2.8	156	511	258	845	458	1,503	565	1,855	814	2,671
4	110	362	182	598	324	1,063	400	1,312	576	1,889
5.6	78	256	129	423	229	751	283	928	407	1,336
8	55	181	91	299	162	531	200	656	288	945
11	39	128	64	211	115	376	141	464	204	668
16	28	90	46	149	81	266	100	328	144	472
22	19	64	32	106	57	188	71	232	102	334

HYPERFOCAL DISTANCES	FOCAL LENGTH (mm)									
	300		400		500		600		1000	
Aperture (f)	m	feet	m	feet	m	feet	m	feet	m	feet
2.8	1,272	4,174								
4	900	2,952	1,599	5,247	2,499	8,199	3,599	11,806		
5.6	636	2,087	1,131	3,710	1,767	5,797	2,545	8,348	7,068	23,187
8	450	1,476	800	2,624	1,250	4,099	1,799	5,903	4,998	16,395
11	318	1,044	565	1,855	884	2,899	1,272	4,174	3,534	11,593
16	225	738	400	1,312	625	2,050	900	2,952	2,499	8,198
22	159	522	283	928	442	1,449	636	2,087	1,767	5,797