

Nodal Point & Pupil Point Table

ZOOM LENSES

ITEM	NODAL POINT				PUPIL POINT			
	WIDE		TELE		WIDE		TELE	
	1st	2nd	1st	2nd	ENTRANCE	EXIT	ENTRANCE	EXIT
12-24mmF4.5-5.6	12mm		24mm		12mm		24mm	
EX DG	104.5	12.4	94.2	23.1	115.0	76.3	111.6	93.1
10-20mmF4-5.6	10mm		20mm		10mm		20mm	
DC	97.9	10.4	97.1	19.3	107.5	153.7	113.4	126.5
70-300mmF4-5.6	70mm		300mm		70mm		300mm	
APO MACRO SUPER(II)	116.0	72.5	560.6	289.1	111.0	67.9	9.2	99.5
70-300mmF4-5.6	70mm		300mm		70mm		300mm	
(DL)MACRO SUPER(II)	116.6	72.5	561.7	289.3	111.6	67.9	9.7	99.5
17-35mmF2.8-4	17mm		35mm		17mm		35mm	
EX DG	96.5	17.7	99.6	33.6	110.3	81.0	121.6	97.5
17-35mmF2.8-4	17mm		35mm		17mm		35mm	
EX	97.6	17.6	93.9	33.5	110.5	65.5	114.9	89.6
15-30mmF3.5-4.5	15mm		30mm		15mm		30mm	
EX DG	126.8	15.6	108.7	28.9	139.6	88.4	129.7	105.8
20-40mmF2.8	20mm		40mm		20mm		40mm	
EX DG	118.8	20.7	103.8	38.5	136.9	164.4	129.6	117.2
100-300mmF4.5-3.7	100mm		300mm		100mm		300mm	
DL	155.1	102.1	654.9	290.1	89.2	62.1	37.9	92.8
18-50mmF3.5-5.6	18mm		50mm		18mm		50mm	
DC	75.0	18.7	76.4	48.4	88.1	61.9	96.8	83.6
100-300mmF4	100mm		300mm		100mm		300mm	
APO EX IF	137.2	103.4	355.4	289.3	143.1	109.6	-119.1	109.5
120-300mmF2.8	120mm		300mm		120mm		300mm	
APO EX IF	174.3	124.2	404.2	288.9	115.8	84.5	-295.7	84.4
28-70mmF2.8	28mm		70mm		28mm		70mm	
EX (DF)	108.1	29.0	99.6	67.6	128.7	99.7	107.1	76.1
24-70mmF2.8	24mm		70mm		24mm		70mm	
EX DG DF	132.9	24.9	110.4	67.3	150.9	90.9	116.2	73.6
24-60mmF2.8	24mm		60mm		24mm		60mm	
EX DG	81.8	24.9	63.7	57.7	99.1	81.6	85.7	93.2
28-70mmF2.8	28mm		70mm		28mm		70mm	
EX DG	78.7	29.1	60.1	67.3	97.5	82.0	79.0	93.7
70-200mmF2.8	70mm		200mm		70mm		200mm	
APO EX	113.9	72.6	163.7	193.2	129.5	92.5	-47.7	92.3
18-50mmF2.8	18mm		50mm		18mm		50mm	
EX DC	81.1	18.6	45.3	48.4	98.1	228.7	77.5	144.0
300-800mmF5.6	300mm		800mm		300mm		800mm	
APO EX IF DG HSM	46.9	302.5	2449.0	777.2	-305.1	139.8	-1099.7	139.6
28-90mmF3.8-5.6	28mm		90mm		28mm		90mm	
	90.1	29.1	108.5	86.3	106.1	64.4	117.4	96.2
24-70mm	24mm		70mm		24mm		70mm	
	80.4	24.9	84.2	67.3	95.8	65.0	94.6	79.6
24-70mmF3.5-5.6	24mm		70mm		24mm		70mm	
HF	93.2	25.0	97.3	67.6	109.1	68.3	118.0	97.4
28-70mmF2.8-4	28mm		70mm		28mm		70mm	
UC	84.3	29.1	80.3	67.4	101.2	69.6	82.9	70.2
28-70mmF2.8-4	28mm		70mm		28mm		70mm	
HIGH SPEED ZOOM	84.3	29.1	81.1	67.4	100.0	63.4	82.4	68.7
28-80mm	28mm		80mm		28mm		80mm	
	86.4	29.1	96.6	77.0	103.3	69.6	113.5	98.6
28-80mm	28mm		80mm		28mm		80mm	
MINI ZOOM MACRO HF/II	86.0	29.1	96.2	77.0	103.0	70.4	113.2	98.7
28-105mmF2.8-4	28mm		105mm		28mm		105mm	
	75.5	29.1	74.8	100.9	92.1	67.5	51.2	81.8
28-105mmF3.8-5.6	28mm		105mm		28mm		105mm	
UC-III	71.1	29.2	76.9	101.2	87.3	65.5	53.4	82.1
24-135mmF2.8-4.5	24mm		135mm		24mm		135mm	
	89.0	25.0	73.7	129.7	104.4	65.4	29.2	96.6
17-70mmF2.8-4.5	17mm		70mm		17mm		70mm	
DC MACRO	83.3	17.6	41.9	67.7	96.7	74.9	61.8	95.9
55-200mmF4-5.6	55mm		200mm		55mm		200mm	
DC	81.7	55.2	305.5	193.2	87.1	61.1	58.5	84.8
28-135mmF3.8-5.6	28mm		135mm		28mm		135mm	
IF MACRO	74.6	29.1	104.0	130.0	90.6	64.7	50.5	92.1
135-400mm	135mm		400mm		135mm		400mm	
	219.5	138.9	688.9	388.6	109.6	77.5	-167.1	121.3
80-400mm	80mm		400mm		80mm		400mm	
F4.5-5.6 EX OS	141.6	80.3	692.7	388.7	148.0	87.2	-278.1	111.1
170-500mm	170mm		500mm		170mm		500mm	
	253.7	173.2	1012.7	484.7	39.8	77.5	-439.2	121.3
50-500mmF4-6.3	50mm		500mm		50mm		500mm	
EX RF	166.9	50.2	1128.7	483.8	186.1	81.3	-502.6	110.7
70-210mm	70mm		210mm		70mm		210mm	
	101.6	70.7	384.4	203.3	81.7	55.2	48.0	76.6
18-200mmF3.5-6.3	18mm		200mm		18mm		200mm	
DC	80.2	18.8	144.3	191.5	93.5	64.5	-74.7	89.4
28-200mmF3.5-5.6	28mm		200mm		28mm		200mm	
	84.3	29.2	226.3	191.9	99.8	62.3	-9.9	86.0
28-200mmF3.5-5.6	28mm		200mm		28mm		200mm	
COMPACT HYPERZOOM	75.9	29.1	228.9	191.9	90.5	58.7	-0.5	87.4
18-125mmF3.5-5.6	18mm		125mm		18mm		125mm	
DC	78.4	18.7	33.8	120.7	92.5	75.5	3.1	96.2
28-300mmF3.5-6.3	28mm		300mm		28mm		300mm	
	89.7	29.0	429.4	288.8	105.5	63.8	-74.4	105.2
28-300mmF3.5-6.3	28mm		300mm		28mm		300mm	
COMPACT HYPERZOOM	88.2	29.0	453.4	288.8	103.8	62.8	-62.4	103.7
28-300mmF3.5-6.3	28mm		300mm		28mm		300mm	
MACRO	85.1	29.1	458.4	288.9	100.3	61.0	-47.9	104.9