

Schneider Apo-Digitar - SAD 90R

Rodenstock Standard Copal 0
Hub in mm per degree: 0.03333

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.55548	0.67891	0	∞	XX	5.10327	2.22741
1	247	XX	1.54793	0.67800	1	811	XX	5.07851	2.22441
2	124	XX	1.54047	0.67709	2	406	XX	5.05403	2.22142
3	82.5	XX	1.53309	0.67618	3	271	XX	5.02982	2.21845
4	61.9	XX	1.52579	0.67528	4	203	XX	5.00587	2.21549
5	49.6	X	1.51857	0.67438	5	163	X	4.98219	2.21254
6	41.3		1.51143	0.67349	6	136		4.95875	2.20960
7	35.4		1.50436	0.67259	7	116		4.93557	2.20667
8	31		1.49737	0.67170	8	102		4.91264	2.20375
9	27.6		1.49046	0.67082	9	90.6		4.88995	2.20085
10	24.9	X	1.48362	0.66994	10	81.6	X	4.86751	2.19796
11	22.6		1.47685	0.66906	11	74.2		4.84529	2.19508
12	20.8		1.47015	0.66819	12	68.1		4.82331	2.19221
13	19.2		1.46352	0.66731	13	62.9		4.80156	2.18935
14	17.8		1.45696	0.66645	14	58.4		4.78004	2.18650
15	16.6	X	1.45046	0.66558	15	54.6	X	4.75873	2.18367
16	15.6		1.44404	0.66472	16	51.2		4.73765	2.18085
17	14.7		1.43767	0.66386	17	48.2		4.71678	2.17803
18	13.9		1.43138	0.66301	18	45.6		4.69612	2.17523
19	13.2		1.42514	0.66216	19	43.2		4.67567	2.17244
20	12.5	X	1.41897	0.66131	20	41.1	X	4.65543	2.16966
21	11.9		1.41287	0.66047	21	39.2		4.63539	2.16689
22	11.4		1.40682	0.65963	22	37.4		4.61555	2.16413
23	10.9		1.40083	0.65879	23	35.8		4.59590	2.16139
24	10.5		1.39490	0.65796	24	34.3		4.57645	2.15865
25	10.1	X	1.38903	0.65713	25	33	X	4.55719	2.15592
26	9.67		1.38322	0.65630	26	31.7		4.53812	2.15321
27	9.32		1.37746	0.65547	27	30.6		4.51923	2.15050
28	9		1.37176	0.65465	28	29.5		4.50052	2.14781
29	8.69		1.36611	0.65383	29	28.5		4.48200	2.14512
30	8.41	X	1.36052	0.65302	30	27.6	X	4.46365	2.14245
31	8.14		1.35498	0.65221	31	26.7		4.44548	2.13979
32	7.89		1.34950	0.65140	32	25.9		4.42748	2.13713
33	7.66		1.34406	0.65059	33	25.1		4.40965	2.13449
34	7.44		1.33868	0.64979	34	24.4		4.39199	2.13186
35	7.23	X	1.33335	0.64899	35	23.7	X	4.37449	2.12923

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36	7.04	1.32806	0.64819	36	23.1	4.35716	2.12662
37	6.85	1.32283	0.64740	37	22.5	4.33999	2.12402
38	6.68	1.31764	0.64661	38	21.9	4.32297	2.12143
39	6.51	1.31250	0.64582	39	21.4	4.30611	2.11884
40	6.35 x	1.30741	0.64504	40	20.8 x	4.28941	2.11627
41	6.2	1.30237	0.64426	41	20.3	4.27286	2.11371
42	6.06	1.29737	0.64348	42	19.9	4.25646	2.11115
43	5.92	1.29241	0.64270	43	19.4	4.24020	2.10861
44	5.79	1.28750	0.64193	44	19	4.22410	2.10607
45	5.67 x	1.28264	0.64116	45	18.6 x	4.20813	2.10355
46	5.55	1.27782	0.64039	46	18.2	4.19231	2.10103
47	5.43	1.27304	0.63963	47	17.8	4.17663	2.09853
48	5.32	1.26830	0.63887	48	17.5	4.16109	2.09603
49	5.22	1.26360	0.63811	49	17.1	4.14568	2.09354
50	5.12 x	1.25895	0.63736	50	16.8 x	4.13041	2.09106
51	5.02	1.25434	0.63660	51	16.5	4.11528	2.08859
52	4.93	1.24976	0.63585	52	16.2	4.10027	2.08613
53	4.84	1.24523	0.63511	53	15.9	4.08540	2.08368
54	4.75	1.24073	0.63436	54	15.6	4.07065	2.08124
55	4.67 x	1.23628	0.63362	55	15.3 x	4.05603	2.07881
56	4.59	1.23186	0.63288	56	15.1	4.04153	2.07638
57	4.51	1.22748	0.63215	57	14.8	4.02716	2.07397
58	4.44	1.22313	0.63141	58	14.6	4.01290	2.07156
59	4.36	1.21883	0.63068	59	14.3	3.99877	2.06917
60	4.29 x	1.21455	0.62995	60	14.1 x	3.98476	2.06678
61	4.23	1.21032	0.62923	61	13.9	3.97086	2.06440
62	4.16	1.20612	0.62851	62	13.7	3.95708	2.06203
63	4.1	1.20195	0.62779	63	13.4	3.94342	2.05967
64	4.04	1.19782	0.62707	64	13.2	3.92987	2.05731
65	3.98 x	1.19373	0.62635	65	13.1 x	3.91642	2.05497
66	3.92	1.18966	0.62564	66	12.9	3.90309	2.05263
67	3.87	1.18563	0.62493	67	12.7	3.88987	2.05030
68	3.81	1.18164	0.62423	68	12.5	3.87676	2.04798
69	3.76	1.17767	0.62352	69	12.3	3.86375	2.04567
70	3.71 x	1.17374	0.62282	70	12.2 x	3.85084	2.04337
71	3.66	1.16984	0.62212	71	12	3.83805	2.04108

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72	3.61	1.16597	0.62142	72	11.8	3.82535	2.03879
73	3.56	1.16213	0.62073	73	11.7	3.81275	2.03651
74	3.52	1.15832	0.62004	74	11.5	3.80026	2.03424
75	3.47 x	1.15454	0.61935	75	11.4 x	3.78786	2.03198
76	3.43	1.15079	0.61866	76	11.3	3.77556	2.02973
77	3.39	1.14707	0.61798	77	11.1	3.76336	2.02748
78	3.35	1.14338	0.61729	78	11	3.75125	2.02524
79	3.31	1.13972	0.61661	79	10.8	3.73924	2.02301
80	3.27 x	1.13609	0.61594	80	10.7 x	3.72732	2.02079
81	3.23	1.13248	0.61526	81	10.6	3.71549	2.01858
82	3.19	1.12890	0.61459	82	10.5	3.70375	2.01637
83	3.16	1.12535	0.61392	83	10.4	3.69210	2.01417
84	3.12	1.12183	0.61325	84	10.2	3.68055	2.01198
85	3.09 x	1.11833	0.61259	85	10.1 x	3.66908	2.00980
86	3.05	1.11487	0.61192	86	10	3.65770	2.00763
87	3.02	1.11142	0.61126	87	9.9	3.64640	2.00546
88	2.99	1.10801	0.61061	88	9.8	3.63519	2.00330
89	2.95	1.10461	0.60995	89	9.69	3.62406	2.00115
90	2.92 x	1.10125	0.60930	90	9.59 x	3.61302	1.99900
91	2.89	1.09791	0.60864	91	9.49	3.60206	1.99687
92	2.86	1.09459	0.60800	92	9.4	3.59118	1.99474
93	2.84	1.09130	0.60735	93	9.3	3.58038	1.99261
94	2.81	1.08803	0.60670	94	9.21	3.56966	1.99050
95	2.78 x	1.08479	0.60606	95	9.12 x	3.55901	1.98839
96	2.75	1.08157	0.60542	96	9.03	3.54845	1.98629
97	2.73	1.07837	0.60478	97	8.94	3.53797	1.98420
98	2.7	1.07520	0.60415	98	8.86	3.52756	1.98211
99	2.68	1.07205	0.60351	99	8.78	3.51722	1.98003
100	2.65 x	1.06892	0.60288	100	8.69 x	3.50696	1.97796
101	2.63	1.06582	0.60225	101	8.61	3.49677	1.97590
102	2.6	1.06273	0.60163	102	8.54	3.48666	1.97384
103	2.58	1.05967	0.60100	103	8.46	3.47662	1.97179
104	2.56	1.05664	0.60038	104	8.38	3.46665	1.96975
105	2.53 x	1.05362	0.59976	105	8.31 x	3.45675	1.96771
106	2.51	1.05062	0.59914	106	8.24	3.44692	1.96568
107	2.49	1.04765	0.59852	107	8.17	3.43716	1.96366

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108	2.47	1.04469	0.59791	108	8.1	3.42747	1.96165
109	2.45	1.04176	0.59730	109	8.03	3.41785	1.95964
110	2.43 x	1.03885	0.59669	110	7.96 x	3.40829	1.95764
111	2.41	1.03596	0.59608	111	7.89	3.39881	1.95564
112	2.39	1.03308	0.59547	112	7.83	3.38938	1.95366
113	2.37	1.03023	0.59487	113	7.76	3.38002	1.95168
114	2.35	1.02740	0.59427	114	7.7	3.37073	1.94970
115	2.33 x	1.02458	0.59367	115	7.64 x	3.36150	1.94773
116	2.31	1.02179	0.59307	116	7.58	3.35233	1.94577
117	2.29	1.01902	0.59248	117	7.52	3.34323	1.94382
118	2.27	1.01626	0.59188	118	7.46	3.33418	1.94187
119	2.26	1.01352	0.59129	119	7.4	3.32520	1.93993
120	2.24 x	1.01080	0.59070	120	7.35 x	3.31628	1.93799
121	2.22	1.00810	0.59011	121	7.29	3.30742	1.93607
122	2.21	1.00542	0.58953	122	7.24	3.29862	1.93414
123	2.19	1.00275	0.58894	123	7.18	3.28987	1.93223
124	2.17	1.00011	0.58836	124	7.13	3.28119	1.93032
125	2.16 x	0.99748	0.58778	125	7.08 x	3.27256	1.92842
126	2.14	0.99486	0.58720	126	7.03	3.26399	1.92652
127	2.13	0.99227	0.58663	127	6.98	3.25548	1.92463
128	2.11	0.98969	0.58605	128	6.93	3.24702	1.92275
129	2.1	0.98713	0.58548	129	6.88	3.23862	1.92087
130	2.08 x	0.98459	0.58491	130	6.83 x	3.23027	1.91900
131	2.07	0.98206	0.58434	131	6.78	3.22198	1.91713
132	2.05	0.97955	0.58377	132	6.73	3.21374	1.91527
133	2.04	0.97705	0.58321	133	6.69	3.20555	1.91342
134	2.02	0.97457	0.58265	134	6.64	3.19742	1.91157
135	2.01 x	0.97211	0.58209	135	6.6 x	3.18934	1.90973
136	2	0.96966	0.58153	136	6.55	3.18131	1.90790
137	1.98	0.96723	0.58097	137	6.51	3.17333	1.90607
138	1.97	0.96482	0.58041	138	6.47	3.16541	1.90425
139	1.96	0.96242	0.57986	139	6.43	3.15753	1.90243
140	1.95 x	0.96003	0.57931	140	6.38 x	3.14971	1.90062
141	1.93	0.95766	0.57876	141	6.34	3.14193	1.89881
142	1.92	0.95530	0.57821	142	6.3	3.13420	1.89701
143	1.91	0.95296	0.57766	143	6.26	3.12652	1.89522

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144	1.9	0.95064	0.57712	144	6.22	3.11889	1.89343
145	1.89 x	0.94833	0.57658	145	6.19 x	3.11131	1.89165
146	1.87	0.94603	0.57603	146	6.15	3.10377	1.88988
147	1.86	0.94375	0.57549	147	6.11	3.09628	1.88811
148	1.85	0.94148	0.57496	148	6.07	3.08884	1.88634
149	1.84	0.93922	0.57442	149	6.04	3.08144	1.88458
150	1.83 x	0.93698	0.57389	150	6 x	3.07409	1.88283
151	1.82	0.93476	0.57335	151	5.96	3.06678	1.88108
152	1.81	0.93254	0.57282	152	5.93	3.05952	1.87934
153	1.8	0.93034	0.57229	153	5.89	3.05230	1.87760
154	1.79	0.92816	0.57177	154	5.86	3.04513	1.87587
155	1.78 x	0.92598	0.57124	155	5.83 x	3.03800	1.87415
156	1.77	0.92382	0.57072	156	5.79	3.03091	1.87243
157	1.76	0.92167	0.57019	157	5.76	3.02387	1.87071
158	1.75	0.91954	0.56967	158	5.73	3.01687	1.86901
159	1.74	0.91742	0.56915	159	5.7	3.00991	1.86730
160	1.73 x	0.91531	0.56864	160	5.66 x	3.00299	1.86560
161	1.72	0.91321	0.56812	161	5.63	2.99611	1.86391
162	1.71	0.91113	0.56761	162	5.6	2.98927	1.86222
163	1.7	0.90906	0.56709	163	5.57	2.98248	1.86054
164	1.69	0.90700	0.56658	164	5.54	2.97572	1.85887
165	1.68 x	0.90495	0.56607	165	5.51 x	2.96900	1.85720
166	1.67	0.90292	0.56557	166	5.48	2.96233	1.85553
167	1.66	0.90089	0.56506	167	5.45	2.95569	1.85387
168	1.65	0.89888	0.56455	168	5.42	2.94909	1.85221
169	1.64	0.89688	0.56405	169	5.39	2.94253	1.85056
170	1.64 x	0.89490	0.56355	170	5.37 x	2.93601	1.84892
171	1.63	0.89292	0.56305	171	5.34	2.92952	1.84728
172	1.62	0.89095	0.56255	172	5.31	2.92308	1.84564
173	1.61	0.88900	0.56206	173	5.28	2.91667	1.84401
174	1.6	0.88706	0.56156	174	5.26	2.91029	1.84239
175	1.59 x	0.88513	0.56107	175	5.23 x	2.90396	1.84077
176	1.59	0.88321	0.56057	176	5.21	2.89766	1.83915
177	1.58	0.88130	0.56008	177	5.18	2.89139	1.83755
178	1.57	0.87940	0.55959	178	5.15	2.88516	1.83594
179	1.56	0.87751	0.55911	179	5.13	2.87897	1.83434

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180	1.56 x	0.87563	0.55862	180	5.1 x	2.87281	1.83275
181	1.55	0.87377	0.55814	181	5.08	2.86669	1.83116
182	1.54	0.87191	0.55765	182	5.05	2.86060	1.82957
183	1.53	0.87007	0.55717	183	5.03	2.85454	1.82799
184	1.53	0.86823	0.55669	184	5.01	2.84852	1.82642
185	1.52 x	0.86640	0.55621	185	4.98 x	2.84254	1.82485
186	1.51	0.86459	0.55574	186	4.96	2.83658	1.82328
187	1.5	0.86279	0.55526	187	4.94	2.83066	1.82172
188	1.5	0.86099	0.55479	188	4.91	2.82477	1.82017
189	1.49	0.85921	0.55431	189	4.89	2.81892	1.81862
190	1.48 x	0.85743	0.55384	190	4.87 x	2.81309	1.81707
191	1.48	0.85566	0.55337	191	4.85	2.80730	1.81553
192	1.47	0.85391	0.55290	192	4.82	2.80154	1.81399
193	1.46	0.85216	0.55244	193	4.8	2.79581	1.81246
194	1.46	0.85043	0.55197	194	4.78	2.79011	1.81093
195	1.45 x	0.84870	0.55151	195	4.76 x	2.78445	1.80941
196	1.44	0.84698	0.55105	196	4.74	2.77881	1.80789
197	1.44	0.84527	0.55058	197	4.72	2.77321	1.80638
198	1.43	0.84357	0.55012	198	4.7	2.76763	1.80487
199	1.43	0.84188	0.54967	199	4.68	2.76209	1.80336
200	1.42 x	0.84020	0.54921	200	4.66 x	2.75657	1.80186
201	1.41	0.83853	0.54875	201	4.64	2.75109	1.80037
202	1.41	0.83687	0.54830	202	4.62	2.74563	1.79888
203	1.4	0.83521	0.54784	203	4.6	2.74020	1.79739
204	1.39	0.83357	0.54739	204	4.58	2.73480	1.79591
205	1.39 x	0.83193	0.54694	205	4.56 x	2.72943	1.79443
206	1.38	0.83030	0.54649	206	4.54	2.72409	1.79296
207	1.38	0.82868	0.54605	207	4.52	2.71878	1.79149
208	1.37	0.82707	0.54560	208	4.5	2.71349	1.79003
209	1.37	0.82547	0.54516	209	4.48	2.70824	1.78857
210	1.36 x	0.82388	0.54471	210	4.46 x	2.70301	1.78711
211	1.35	0.82229	0.54427	211	4.45	2.69780	1.78566
212	1.35	0.82071	0.54383	212	4.43	2.69263	1.78421
213	1.34	0.81914	0.54339	213	4.41	2.68748	1.78277
214	1.34	0.81758	0.54295	214	4.39	2.68236	1.78133
215	1.33 x	0.81603	0.54251	215	4.37 x	2.67726	1.77990

* The maximum turn of a helical depends on the brand/make. Nevertheless a distance scale "beyond" the maximum turn of the respective helical allows direct read-out of depth-of-field via the aperture scale figures in red/with marking "XX" and "X" are engraved on the HPF ring.

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Schneider Apo-Digitar - SAD 90R

Rodenstock Standard Copal 0
Hub in mm per degree: 0.03333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.33	0.81448	0.54208	216	4.36	2.67219	1.77847
217	1.32	0.81295	0.54164	217	4.34	2.66715	1.77704
218	1.32	0.81142	0.54121	218	4.32	2.66213	1.77562
219	1.31	0.80990	0.54078	219	4.31	2.65714	1.77421
220	1.31 x	0.80838	0.54035	220	4.29 x	2.65217	1.77279
221	1.3	0.80688	0.53992	221	4.27	2.64723	1.77138
222	1.3	0.80538	0.53949	222	4.26	2.64232	1.76998
223	1.29	0.80389	0.53906	223	4.24	2.63743	1.76858
224	1.29	0.80240	0.53864	224	4.22	2.63256	1.76718
225	1.28 x	0.80093	0.53821	225	4.21 x	2.62772	1.76579
226	1.28	0.79946	0.53779	226	4.19	2.62290	1.76440
227	1.27	0.79800	0.53737	227	4.18	2.61811	1.76302
228	1.27	0.79655	0.53695	228	4.16	2.61334	1.76164
229	1.26	0.79510	0.53653	229	4.15	2.60859	1.76026
230	1.26 x	0.79366	0.53611	230	4.13 x	2.60387	1.75889
231	1.25	0.79223	0.53569	231	4.12	2.59918	1.75752
232	1.25	0.79080	0.53528	232	4.1	2.59450	1.75616
233	1.25	0.78939	0.53486	233	4.09	2.58985	1.75480
234	1.24	0.78798	0.53445	234	4.07	2.58522	1.75344
235	1.24 x	0.78657	0.53404	235	4.06 x	2.58062	1.75209
236	1.23	0.78517	0.53363	236	4.04	2.57603	1.75074
237	1.23	0.78378	0.53322	237	4.03	2.57147	1.74940
238	1.22	0.78240	0.53281	238	4.01	2.56693	1.74806
239	1.22	0.78103	0.53240	239	4	2.56242	1.74672
240	1.21 x	0.77966	0.53199	240	3.98 x	2.55793	1.74539
241	1.21	0.77829	0.53159	241	3.97	2.55345	1.74406
242	1.21	0.77694	0.53119	242	3.96	2.54900	1.74274
243	1.2	0.77559	0.53078	243	3.94	2.54457	1.74141
244	1.2	0.77424	0.53038	244	3.93	2.54017	1.74010
245	1.19 x	0.77291	0.52998	245	3.92 x	2.53578	1.73878
246	1.19	0.77158	0.52958	246	3.9	2.53142	1.73747
247	1.19	0.77025	0.52918	247	3.89	2.52707	1.73617
248	1.18	0.76893	0.52879	248	3.88	2.52275	1.73487
249	1.18	0.76762	0.52839	249	3.86	2.51845	1.73357
250	1.17 x	0.76632	0.52800	250	3.85 x	2.51417	1.73227
251	1.17	0.76502	0.52760	251	3.84	2.50990	1.73098

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