

Schneider Apo-Digitar - SAD 35

Schneider 35/36 Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.31531	0.21982	0	∞	XX	1.03448	0.72121
1	47.8	XX	0.31432	0.21955	1	157	XX	1.03123	0.72030
2	24	XX	0.31334	0.21927	2	78.6	XX	1.02801	0.71940
3	16	XX	0.31236	0.21900	3	52.5	XX	1.02482	0.71850
4	12	XX	0.31140	0.21873	4	39.5	XX	1.02166	0.71761
5	9.64	X	0.31045	0.21846	5	31.6	X	1.01853	0.71673
6	8.05		0.30950	0.21819	6	26.4		1.01542	0.71585
7	6.91		0.30856	0.21792	7	22.7		1.01235	0.71497
8	6.06		0.30764	0.21766	8	19.9		1.00931	0.71410
9	5.39		0.30672	0.21739	9	17.7		1.00629	0.71323
10	4.86	X	0.30581	0.21713	10	16	X	1.00330	0.71237
11	4.43		0.30490	0.21687	11	14.5		1.00034	0.71152
12	4.07		0.30401	0.21661	12	13.3		0.99740	0.71066
13	3.76		0.30312	0.21635	13	12.3		0.99449	0.70982
14	3.5		0.30224	0.21609	14	11.5		0.99161	0.70897
15	3.27	X	0.30137	0.21584	15	10.7	X	0.98875	0.70813
16	3.07		0.30051	0.21558	16	10.1		0.98592	0.70730
17	2.9		0.29965	0.21533	17	9.51		0.98311	0.70647
18	2.74		0.29880	0.21508	18	8.99		0.98033	0.70564
19	2.6		0.29796	0.21483	19	8.54		0.97757	0.70482
20	2.48	X	0.29713	0.21458	20	8.12	X	0.97484	0.70401
21	2.36		0.29630	0.21433	21	7.75		0.97213	0.70320
22	2.26		0.29549	0.21409	22	7.41		0.96944	0.70239
23	2.17		0.29467	0.21384	23	7.1		0.96678	0.70158
24	2.08		0.29387	0.21360	24	6.82		0.96414	0.70079
25	2	X	0.29307	0.21336	25	6.56	X	0.96152	0.69999
26	1.93		0.29228	0.21312	26	6.32		0.95893	0.69920
27	1.86		0.29150	0.21288	27	6.09		0.95635	0.69841
28	1.79		0.29072	0.21264	28	5.89		0.95380	0.69763
29	1.74		0.28995	0.21240	29	5.69		0.95127	0.69685
30	1.68	X	0.28918	0.21216	30	5.51	X	0.94876	0.69608
31	1.63		0.28842	0.21193	31	5.35		0.94628	0.69531
32	1.58		0.28767	0.21170	32	5.19		0.94381	0.69454
33	1.54		0.28693	0.21146	33	5.04		0.94136	0.69378
34	1.49		0.28619	0.21123	34	4.9		0.93894	0.69302
35	1.45	X	0.28546	0.21100	35	4.77	X	0.93653	0.69227

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36	1.42	0.28473	0.21077	36	4.64	0.93415	0.69152
37	1.38	0.28401	0.21055	37	4.53	0.93178	0.69077
38	1.35	0.28329	0.21032	38	4.42	0.92943	0.69003
39	1.31	0.28258	0.21010	39	4.31	0.92711	0.68929
40	1.28 x	0.28188	0.20987	40	4.21 x	0.92480	0.68856
41	1.25	0.28118	0.20965	41	4.11	0.92251	0.68782
42	1.23	0.28049	0.20943	42	4.02	0.92024	0.68710
43	1.2	0.27980	0.20921	43	3.94	0.91798	0.68637
44	1.17	0.27912	0.20899	44	3.85	0.91575	0.68565
45	1.15 x	0.27844	0.20877	45	3.78 x	0.91353	0.68494
46	1.13	0.27777	0.20855	46	3.7	0.91133	0.68422
47	1.11	0.27711	0.20834	47	3.63	0.90915	0.68352
48	1.08	0.27645	0.20812	48	3.56	0.90698	0.68281
49	1.06	0.27579	0.20791	49	3.49	0.90483	0.68211
50	1.04 x	0.27514	0.20769	50	3.43 x	0.90270	0.68141
51	1.03	0.27450	0.20748	51	3.37	0.90059	0.68072
52	1.01	0.27386	0.20727	52	3.31	0.89849	0.68002
53	.991	0.27323	0.20706	53	3.25	0.89641	0.67934
54	.974	0.27260	0.20685	54	3.2	0.89434	0.67865
55	.958 x	0.27197	0.20665	55	3.14 x	0.89229	0.67797
56	.942	0.27135	0.20644	56	3.09	0.89026	0.67729
57	.928	0.27074	0.20623	57	3.04	0.88824	0.67662
58	.913	0.27012	0.20603	58	3	0.88624	0.67595
59	.899	0.26952	0.20583	59	2.95	0.88425	0.67528
60	.886 x	0.26892	0.20562	60	2.91 x	0.88228	0.67462
61	.873	0.26832	0.20542	61	2.86	0.88032	0.67396
62	.86	0.26773	0.20522	62	2.82	0.87837	0.67330
63	.848	0.26714	0.20502	63	2.78	0.87645	0.67265
64	.836	0.26656	0.20482	64	2.74	0.87453	0.67200
65	.825 x	0.26598	0.20463	65	2.71 x	0.87263	0.67135
66	.814	0.26540	0.20443	66	2.67	0.87075	0.67070
67	.803	0.26483	0.20423	67	2.63	0.86887	0.67006
68	.792	0.26427	0.20404	68	2.6	0.86702	0.66942
69	.782	0.26370	0.20385	69	2.57	0.86517	0.66879
70	.772 x	0.26315	0.20365	70	2.53 x	0.86334	0.66816
71	.763	0.26259	0.20346	71	2.5	0.86152	0.66753

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72	.753	0.26204	0.20327	72	2.47	0.85972	0.66690
73	.744	0.26150	0.20308	73	2.44	0.85793	0.66628
74	.736	0.26095	0.20289	74	2.41	0.85615	0.66566
75	.727 x	0.26042	0.20271	75	2.39 x	0.85438	0.66504
76	.719	0.25988	0.20252	76	2.36	0.85263	0.66443
77	.711	0.25935	0.20233	77	2.33	0.85089	0.66382
78	.703	0.25883	0.20215	78	2.31	0.84916	0.66321
79	.695	0.25830	0.20196	79	2.28	0.84745	0.66261
80	.687 x	0.25778	0.20178	80	2.26 x	0.84575	0.66201
81	.68	0.25727	0.20160	81	2.23	0.84405	0.66141
82	.673	0.25676	0.20142	82	2.21	0.84238	0.66081
83	.666	0.25625	0.20123	83	2.18	0.84071	0.66022
84	.659	0.25574	0.20105	84	2.16	0.83905	0.65963
85	.652 x	0.25524	0.20088	85	2.14 x	0.83741	0.65904
86	.646	0.25474	0.20070	86	2.12	0.83578	0.65846
87	.64	0.25425	0.20052	87	2.1	0.83416	0.65787
88	.633	0.25376	0.20034	88	2.08	0.83255	0.65729
89	.627	0.25327	0.20017	89	2.06	0.83095	0.65672
90	.621 x	0.25279	0.19999	90	2.04 x	0.82936	0.65615
91	.616	0.25231	0.19982	91	2.02	0.82778	0.65557
92	.61	0.25183	0.19965	92	2	0.82622	0.65501
93	.604	0.25136	0.19947	93	1.98	0.82466	0.65444
94	.599	0.25089	0.19930	94	1.96	0.82312	0.65388
95	.594 x	0.25042	0.19913	95	1.95 x	0.82158	0.65332
96	.588	0.24995	0.19896	96	1.93	0.82006	0.65276
97	.583	0.24949	0.19879	97	1.91	0.81855	0.65221
98	.578	0.24904	0.19862	98	1.9	0.81705	0.65165
99	.573	0.24858	0.19846	99	1.88	0.81555	0.65110
100	.569 x	0.24813	0.19829	100	1.87 x	0.81407	0.65056
101	.564	0.24768	0.19812	101	1.85	0.81260	0.65001
102	.559	0.24723	0.19796	102	1.83	0.81113	0.64947
103	.555	0.24679	0.19779	103	1.82	0.80968	0.64893
104	.55	0.24635	0.19763	104	1.81	0.80824	0.64840
105	.546 x	0.24591	0.19747	105	1.79 x	0.80680	0.64786
106	.542	0.24548	0.19731	106	1.78	0.80538	0.64733
107	.537	0.24505	0.19714	107	1.76	0.80396	0.64680

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108	.533	0.24462	0.19698	108	1.75	0.80256	0.64627
109	.529	0.24419	0.19682	109	1.74	0.80116	0.64575
110	.525 x	0.24377	0.19667	110	1.72 x	0.79977	0.64523
111	.522	0.24335	0.19651	111	1.71	0.79840	0.64471
112	.518	0.24293	0.19635	112	1.7	0.79703	0.64419
113	.514	0.24252	0.19619	113	1.69	0.79566	0.64368
114	.51	0.24211	0.19604	114	1.67	0.79431	0.64316
115	.507 x	0.24170	0.19588	115	1.66 x	0.79297	0.64265
116	.503	0.24129	0.19573	116	1.65	0.79164	0.64215
117	.5	0.24089	0.19557	117	1.64	0.79031	0.64164
118	.496	0.24048	0.19542	118	1.63	0.78899	0.64114
119	.493	0.24009	0.19527	119	1.62	0.78768	0.64064
120	.489 x	0.23969	0.19511	120	1.61 x	0.78638	0.64014
121	.486	0.23930	0.19496	121	1.6	0.78509	0.63964
122	.483	0.23890	0.19481	122	1.58	0.78381	0.63915
123	.48	0.23852	0.19466	123	1.57	0.78253	0.63866
124	.477	0.23813	0.19451	124	1.56	0.78126	0.63817
125	.474 x	0.23774	0.19436	125	1.55 x	0.78000	0.63768
126	.471	0.23736	0.19422	126	1.54	0.77875	0.63719
127	.468	0.23698	0.19407	127	1.53	0.77750	0.63671
128	.465	0.23661	0.19392	128	1.53	0.77627	0.63623
129	.462	0.23623	0.19378	129	1.52	0.77504	0.63575
130	.459 x	0.23586	0.19363	130	1.51 x	0.77382	0.63528
131	.456	0.23549	0.19349	131	1.5	0.77260	0.63480
132	.454	0.23512	0.19334	132	1.49	0.77140	0.63433
133	.451	0.23476	0.19320	133	1.48	0.77020	0.63386
134	.448	0.23439	0.19306	134	1.47	0.76901	0.63339
135	.446 x	0.23403	0.19292	135	1.46 x	0.76782	0.63293
136	.443	0.23367	0.19278	136	1.45	0.76665	0.63246
137	.441	0.23332	0.19263	137	1.45	0.76548	0.63200
138	.438	0.23296	0.19249	138	1.44	0.76431	0.63154
139	.436	0.23261	0.19236	139	1.43	0.76316	0.63109
140	.433 x	0.23226	0.19222	140	1.42 x	0.76201	0.63063
141	.431	0.23191	0.19208	141	1.41	0.76087	0.63018
142	.428	0.23157	0.19194	142	1.41	0.75973	0.62973
143	.426	0.23122	0.19180	143	1.4	0.75861	0.62928

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144	.424	0.23088	0.19167	144	1.39	0.75749	0.62883
145	.422 x	0.23054	0.19153	145	1.38 x	0.75637	0.62839
146	.419	0.23020	0.19140	146	1.38	0.75526	0.62794
147	.417	0.22987	0.19126	147	1.37	0.75416	0.62750
148	.415	0.22954	0.19113	148	1.36	0.75307	0.62706
149	.413	0.22920	0.19100	149	1.35	0.75198	0.62663
150	.411 x	0.22887	0.19086	150	1.35 x	0.75090	0.62619
151	.409	0.22855	0.19073	151	1.34	0.74982	0.62576
152	.407	0.22822	0.19060	152	1.33	0.74875	0.62533
153	.405	0.22790	0.19047	153	1.33	0.74769	0.62490
154	.403	0.22757	0.19034	154	1.32	0.74664	0.62447
155	.401 x	0.22725	0.19021	155	1.31 x	0.74559	0.62404
156	.399	0.22694	0.19008	156	1.31	0.74454	0.62362
157	.397	0.22662	0.18995	157	1.3	0.74350	0.62320
158	.395	0.22631	0.18982	158	1.3	0.74247	0.62278
159	.393	0.22599	0.18969	159	1.29	0.74145	0.62236
160	.391 x	0.22568	0.18957	160	1.28 x	0.74043	0.62194
161	.389	0.22537	0.18944	161	1.28	0.73941	0.62153
162	.387	0.22507	0.18932	162	1.27	0.73840	0.62111
163	.386	0.22476	0.18919	163	1.27	0.73740	0.62070
164	.384	0.22446	0.18907	164	1.26	0.73640	0.62029
165	.382 x	0.22415	0.18894	165	1.25 x	0.73541	0.61989
166	.381	0.22385	0.18882	166	1.25	0.73443	0.61948
167	.379	0.22356	0.18869	167	1.24	0.73345	0.61908
168	.377	0.22326	0.18857	168	1.24	0.73247	0.61867
169	.375	0.22296	0.18845	169	1.23	0.73151	0.61827
170	.374 x	0.22267	0.18833	170	1.23 x	0.73054	0.61787
171	.372	0.22238	0.18821	171	1.22	0.72959	0.61748
172	.371	0.22209	0.18809	172	1.22	0.72863	0.61708
173	.369	0.22180	0.18797	173	1.21	0.72769	0.61669
174	.368	0.22151	0.18785	174	1.21	0.72674	0.61630
175	.366 x	0.22123	0.18773	175	1.2 x	0.72581	0.61591
176	.364	0.22094	0.18761	176	1.2	0.72488	0.61552
177	.363	0.22066	0.18749	177	1.19	0.72395	0.61513
178	.361	0.22038	0.18737	178	1.19	0.72303	0.61475
179	.36	0.22010	0.18726	179	1.18	0.72212	0.61436

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180	.359 x	0.21982	0.18714	180	1.18 x	0.72121	0.61398
181	.357	0.21955	0.18703	181	1.17	0.72030	0.61360
182	.356	0.21927	0.18691	182	1.17	0.71940	0.61322
183	.354	0.21900	0.18679	183	1.16	0.71850	0.61284
184	.353	0.21873	0.18668	184	1.16	0.71761	0.61247
185	.351 x	0.21846	0.18657	185	1.15 x	0.71673	0.61209
186	.35	0.21819	0.18645	186	1.15	0.71585	0.61172
187	.349	0.21792	0.18634	187	1.14	0.71497	0.61135
188	.347	0.21766	0.18623	188	1.14	0.71410	0.61098
189	.346	0.21739	0.18612	189	1.14	0.71323	0.61062
190	.345 x	0.21713	0.18600	190	1.13 x	0.71237	0.61025
191	.344	0.21687	0.18589	191	1.13	0.71152	0.60989
192	.342	0.21661	0.18578	192	1.12	0.71066	0.60952
193	.341	0.21635	0.18567	193	1.12	0.70982	0.60916
194	.34	0.21609	0.18556	194	1.11	0.70897	0.60880
195	.339 x	0.21584	0.18545	195	1.11 x	0.70813	0.60844
196	.337	0.21558	0.18534	196	1.11	0.70730	0.60809
197	.336	0.21533	0.18524	197	1.1	0.70647	0.60773
198	.335	0.21508	0.18513	198	1.1	0.70564	0.60738
199	.334	0.21483	0.18502	199	1.09	0.70482	0.60703
200	.333 x	0.21458	0.18491	200	1.09 x	0.70401	0.60668
201	.331	0.21433	0.18481	201	1.09	0.70320	0.60633
202	.33	0.21409	0.18470	202	1.08	0.70239	0.60598
203	.329	0.21384	0.18460	203	1.08	0.70158	0.60563
204	.328	0.21360	0.18449	204	1.08	0.70079	0.60529
205	.327 x	0.21336	0.18439	205	1.07 x	0.69999	0.60494
206	.326	0.21312	0.18428	206	1.07	0.69920	0.60460
207	.325	0.21288	0.18418	207	1.07	0.69841	0.60426
208	.324	0.21264	0.18408	208	1.06	0.69763	0.60392
209	.323	0.21240	0.18397	209	1.06	0.69685	0.60359
210	.321 x	0.21216	0.18387	210	1.05 x	0.69608	0.60325
211	.32	0.21193	0.18377	211	1.05	0.69531	0.60291
212	.319	0.21170	0.18367	212	1.05	0.69454	0.60258
213	.318	0.21146	0.18357	213	1.04	0.69378	0.60225
214	.317	0.21123	0.18346	214	1.04	0.69302	0.60192
215	.316 x	0.21100	0.18336	215	1.04 x	0.69227	0.60159

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Schneider Apo-Digitar - SAD 35

Schneider 35/36 Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.315	0.21077	0.18326	216	1.03	0.69152	0.60126
217	.314	0.21055	0.18316	217	1.03	0.69077	0.60094
218	.313	0.21032	0.18307	218	1.03	0.69003	0.60061
219	.312	0.21010	0.18297	219	1.02	0.68929	0.60029
220	.311 x	0.20987	0.18287	220	1.02 x	0.68856	0.59996
221	.31	0.20965	0.18277	221	1.02	0.68782	0.59964
222	.31	0.20943	0.18267	222	1.02	0.68710	0.59932
223	.309	0.20921	0.18258	223	1.01	0.68637	0.59900
224	.308	0.20899	0.18248	224	1.01	0.68565	0.59869
225	.307 x	0.20877	0.18238	225	1.01 x	0.68494	0.59837
226	.306	0.20855	0.18229	226	1	0.68422	0.59806
227	.305	0.20834	0.18219	227	1	0.68352	0.59774
228	.304	0.20812	0.18210	228	.997	0.68281	0.59743
229	.303	0.20791	0.18200	229	.994	0.68211	0.59712
230	.302 x	0.20769	0.18191	230	.992 x	0.68141	0.59681
231	.301	0.20748	0.18181	231	.989	0.68072	0.59650
232	.301	0.20727	0.18172	232	.986	0.68002	0.59620
233	.3	0.20706	0.18163	233	.983	0.67934	0.59589
234	.299	0.20685	0.18154	234	.98	0.67865	0.59559
235	.298 x	0.20665	0.18144	235	.978 x	0.67797	0.59529
236	.297	0.20644	0.18135	236	.975	0.67729	0.59498
237	.296	0.20623	0.18126	237	.972	0.67662	0.59468
238	.295	0.20603	0.18117	238	.969	0.67595	0.59438
239	.295	0.20583	0.18108	239	.967	0.67528	0.59409
240	.294 x	0.20562	0.18099	240	.964 x	0.67462	0.59379
241	.293	0.20542	0.18090	241	.962	0.67396	0.59349
242	.292	0.20522	0.18081	242	.959	0.67330	0.59320
243	.291	0.20502	0.18072	243	.956	0.67265	0.59291
244	.291	0.20482	0.18063	244	.954	0.67200	0.59261
245	.29 x	0.20463	0.18054	245	.951 x	0.67135	0.59232
246	.289	0.20443	0.18045	246	.949	0.67070	0.59203
247	.288	0.20423	0.18036	247	.946	0.67006	0.59175
248	.288	0.20404	0.18028	248	.944	0.66942	0.59146
249	.287	0.20385	0.18019	249	.941	0.66879	0.59117
250	.286 x	0.20365	0.18010	250	.939 x	0.66816	0.59089
251	.285	0.20346	0.18002	251	.937	0.66753	0.59060

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Schneider Apo-Digitar - SAD 35

Schneider 35/36 Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.285	0.20327	0.17993	252	.934	0.66690	0.59032
253	.284	0.20308	0.17984	253	.932	0.66628	0.59004
254	.283	0.20289	0.17976	254	.929	0.66566	0.58976
255	.283 x	0.20271	0.17967	255	.927 x	0.66504	0.58948
256	.282	0.20252	0.17959	256	.925	0.66443	0.58920
257	.281	0.20233	0.17950	257	.923	0.66382	0.58893
258	.28	0.20215	0.17942	258	.92	0.66321	0.58865
259	.28	0.20196	0.17934	259	.918	0.66261	0.58838
260	.279 x	0.20178	0.17925	260	.916 x	0.66201	0.58810
261	.278	0.20160	0.17917	261	.914	0.66141	0.58783
262	.278	0.20142	0.17909	262	.911	0.66081	0.58756
263	.277	0.20123	0.17901	263	.909	0.66022	0.58729
264	.276	0.20105	0.17892	264	.907	0.65963	0.58702
265	.276 x	0.20088	0.17884	265	.905 x	0.65904	0.58675
266	.275	0.20070	0.17876	266	.903	0.65846	0.58648
267	.274	0.20052	0.17868	267	.901	0.65787	0.58622
268	.274	0.20034	0.17860	268	.898	0.65729	0.58595
269	.273	0.20017	0.17852	269	.896	0.65672	0.58569
270	.273 x	0.19999	0.17844	270	.894 x	0.65615	0.58543

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Schneider ALPA Apo Switar - AAS 36

 Schneider 35/36 Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.31531	0.21982	0	∞	XX	1.03448	0.72121
1	47.8	XX	0.31432	0.21955	1	157	XX	1.03123	0.72030
2	24	XX	0.31334	0.21927	2	78.6	XX	1.02801	0.71940
3	16	XX	0.31236	0.21900	3	52.5	XX	1.02482	0.71850
4	12	XX	0.31140	0.21873	4	39.5	XX	1.02166	0.71761
5	9.64	X	0.31045	0.21846	5	31.6	X	1.01853	0.71673
6	8.05		0.30950	0.21819	6	26.4		1.01542	0.71585
7	6.91		0.30856	0.21792	7	22.7		1.01235	0.71497
8	6.06		0.30764	0.21766	8	19.9		1.00931	0.71410
9	5.39		0.30672	0.21739	9	17.7		1.00629	0.71323
10	4.86	X	0.30581	0.21713	10	16	X	1.00330	0.71237
11	4.43		0.30490	0.21687	11	14.5		1.00034	0.71152
12	4.07		0.30401	0.21661	12	13.3		0.99740	0.71066
13	3.76		0.30312	0.21635	13	12.3		0.99449	0.70982
14	3.5		0.30224	0.21609	14	11.5		0.99161	0.70897
15	3.27	X	0.30137	0.21584	15	10.7	X	0.98875	0.70813
16	3.07		0.30051	0.21558	16	10.1		0.98592	0.70730
17	2.9		0.29965	0.21533	17	9.51		0.98311	0.70647
18	2.74		0.29880	0.21508	18	8.99		0.98033	0.70564
19	2.6		0.29796	0.21483	19	8.54		0.97757	0.70482
20	2.48	X	0.29713	0.21458	20	8.12	X	0.97484	0.70401
21	2.36		0.29630	0.21433	21	7.75		0.97213	0.70320
22	2.26		0.29549	0.21409	22	7.41		0.96944	0.70239
23	2.17		0.29467	0.21384	23	7.1		0.96678	0.70158
24	2.08		0.29387	0.21360	24	6.82		0.96414	0.70079
25	2	X	0.29307	0.21336	25	6.56	X	0.96152	0.69999
26	1.93		0.29228	0.21312	26	6.32		0.95893	0.69920
27	1.86		0.29150	0.21288	27	6.09		0.95635	0.69841
28	1.79		0.29072	0.21264	28	5.89		0.95380	0.69763
29	1.74		0.28995	0.21240	29	5.69		0.95127	0.69685
30	1.68	X	0.28918	0.21216	30	5.51	X	0.94876	0.69608
31	1.63		0.28842	0.21193	31	5.35		0.94628	0.69531
32	1.58		0.28767	0.21170	32	5.19		0.94381	0.69454
33	1.54		0.28693	0.21146	33	5.04		0.94136	0.69378
34	1.49		0.28619	0.21123	34	4.9		0.93894	0.69302
35	1.45	X	0.28546	0.21100	35	4.77	X	0.93653	0.69227

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Schneider ALPA Apo Switar - AAS 36

Schneider 35/36 Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	1.42	0.28473	0.21077	36	4.64	0.93415	0.69152
37	1.38	0.28401	0.21055	37	4.53	0.93178	0.69077
38	1.35	0.28329	0.21032	38	4.42	0.92943	0.69003
39	1.31	0.28258	0.21010	39	4.31	0.92711	0.68929
40	1.28 x	0.28188	0.20987	40	4.21 x	0.92480	0.68856
41	1.25	0.28118	0.20965	41	4.11	0.92251	0.68782
42	1.23	0.28049	0.20943	42	4.02	0.92024	0.68710
43	1.2	0.27980	0.20921	43	3.94	0.91798	0.68637
44	1.17	0.27912	0.20899	44	3.85	0.91575	0.68565
45	1.15 x	0.27844	0.20877	45	3.78 x	0.91353	0.68494
46	1.13	0.27777	0.20855	46	3.7	0.91133	0.68422
47	1.11	0.27711	0.20834	47	3.63	0.90915	0.68352
48	1.08	0.27645	0.20812	48	3.56	0.90698	0.68281
49	1.06	0.27579	0.20791	49	3.49	0.90483	0.68211
50	1.04 x	0.27514	0.20769	50	3.43 x	0.90270	0.68141
51	1.03	0.27450	0.20748	51	3.37	0.90059	0.68072
52	1.01	0.27386	0.20727	52	3.31	0.89849	0.68002
53	.991	0.27323	0.20706	53	3.25	0.89641	0.67934
54	.974	0.27260	0.20685	54	3.2	0.89434	0.67865
55	.958 x	0.27197	0.20665	55	3.14 x	0.89229	0.67797
56	.942	0.27135	0.20644	56	3.09	0.89026	0.67729
57	.928	0.27074	0.20623	57	3.04	0.88824	0.67662
58	.913	0.27012	0.20603	58	3	0.88624	0.67595
59	.899	0.26952	0.20583	59	2.95	0.88425	0.67528
60	.886 x	0.26892	0.20562	60	2.91 x	0.88228	0.67462
61	.873	0.26832	0.20542	61	2.86	0.88032	0.67396
62	.86	0.26773	0.20522	62	2.82	0.87837	0.67330
63	.848	0.26714	0.20502	63	2.78	0.87645	0.67265
64	.836	0.26656	0.20482	64	2.74	0.87453	0.67200
65	.825 x	0.26598	0.20463	65	2.71 x	0.87263	0.67135
66	.814	0.26540	0.20443	66	2.67	0.87075	0.67070
67	.803	0.26483	0.20423	67	2.63	0.86887	0.67006
68	.792	0.26427	0.20404	68	2.6	0.86702	0.66942
69	.782	0.26370	0.20385	69	2.57	0.86517	0.66879
70	.772 x	0.26315	0.20365	70	2.53 x	0.86334	0.66816
71	.763	0.26259	0.20346	71	2.5	0.86152	0.66753

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Schneider ALPA Apo Switar - AAS 36

Schneider 35/36 Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	.753	0.26204	0.20327	72	2.47	0.85972	0.66690
73	.744	0.26150	0.20308	73	2.44	0.85793	0.66628
74	.736	0.26095	0.20289	74	2.41	0.85615	0.66566
75	.727 x	0.26042	0.20271	75	2.39 x	0.85438	0.66504
76	.719	0.25988	0.20252	76	2.36	0.85263	0.66443
77	.711	0.25935	0.20233	77	2.33	0.85089	0.66382
78	.703	0.25883	0.20215	78	2.31	0.84916	0.66321
79	.695	0.25830	0.20196	79	2.28	0.84745	0.66261
80	.687 x	0.25778	0.20178	80	2.26 x	0.84575	0.66201
81	.68	0.25727	0.20160	81	2.23	0.84405	0.66141
82	.673	0.25676	0.20142	82	2.21	0.84238	0.66081
83	.666	0.25625	0.20123	83	2.18	0.84071	0.66022
84	.659	0.25574	0.20105	84	2.16	0.83905	0.65963
85	.652 x	0.25524	0.20088	85	2.14 x	0.83741	0.65904
86	.646	0.25474	0.20070	86	2.12	0.83578	0.65846
87	.64	0.25425	0.20052	87	2.1	0.83416	0.65787
88	.633	0.25376	0.20034	88	2.08	0.83255	0.65729
89	.627	0.25327	0.20017	89	2.06	0.83095	0.65672
90	.621 x	0.25279	0.19999	90	2.04 x	0.82936	0.65615
91	.616	0.25231	0.19982	91	2.02	0.82778	0.65557
92	.61	0.25183	0.19965	92	2	0.82622	0.65501
93	.604	0.25136	0.19947	93	1.98	0.82466	0.65444
94	.599	0.25089	0.19930	94	1.96	0.82312	0.65388
95	.594 x	0.25042	0.19913	95	1.95 x	0.82158	0.65332
96	.588	0.24995	0.19896	96	1.93	0.82006	0.65276
97	.583	0.24949	0.19879	97	1.91	0.81855	0.65221
98	.578	0.24904	0.19862	98	1.9	0.81705	0.65165
99	.573	0.24858	0.19846	99	1.88	0.81555	0.65110
100	.569 x	0.24813	0.19829	100	1.87 x	0.81407	0.65056
101	.564	0.24768	0.19812	101	1.85	0.81260	0.65001
102	.559	0.24723	0.19796	102	1.83	0.81113	0.64947
103	.555	0.24679	0.19779	103	1.82	0.80968	0.64893
104	.55	0.24635	0.19763	104	1.81	0.80824	0.64840
105	.546 x	0.24591	0.19747	105	1.79 x	0.80680	0.64786
106	.542	0.24548	0.19731	106	1.78	0.80538	0.64733
107	.537	0.24505	0.19714	107	1.76	0.80396	0.64680

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Schneider ALPA Apo Switar - AAS 36

Schneider 35/36 Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	.533	0.24462	0.19698	108	1.75	0.80256	0.64627
109	.529	0.24419	0.19682	109	1.74	0.80116	0.64575
110	.525 x	0.24377	0.19667	110	1.72 x	0.79977	0.64523
111	.522	0.24335	0.19651	111	1.71	0.79840	0.64471
112	.518	0.24293	0.19635	112	1.7	0.79703	0.64419
113	.514	0.24252	0.19619	113	1.69	0.79566	0.64368
114	.51	0.24211	0.19604	114	1.67	0.79431	0.64316
115	.507 x	0.24170	0.19588	115	1.66 x	0.79297	0.64265
116	.503	0.24129	0.19573	116	1.65	0.79164	0.64215
117	.5	0.24089	0.19557	117	1.64	0.79031	0.64164
118	.496	0.24048	0.19542	118	1.63	0.78899	0.64114
119	.493	0.24009	0.19527	119	1.62	0.78768	0.64064
120	.489 x	0.23969	0.19511	120	1.61 x	0.78638	0.64014
121	.486	0.23930	0.19496	121	1.6	0.78509	0.63964
122	.483	0.23890	0.19481	122	1.58	0.78381	0.63915
123	.48	0.23852	0.19466	123	1.57	0.78253	0.63866
124	.477	0.23813	0.19451	124	1.56	0.78126	0.63817
125	.474 x	0.23774	0.19436	125	1.55 x	0.78000	0.63768
126	.471	0.23736	0.19422	126	1.54	0.77875	0.63719
127	.468	0.23698	0.19407	127	1.53	0.77750	0.63671
128	.465	0.23661	0.19392	128	1.53	0.77627	0.63623
129	.462	0.23623	0.19378	129	1.52	0.77504	0.63575
130	.459 x	0.23586	0.19363	130	1.51 x	0.77382	0.63528
131	.456	0.23549	0.19349	131	1.5	0.77260	0.63480
132	.454	0.23512	0.19334	132	1.49	0.77140	0.63433
133	.451	0.23476	0.19320	133	1.48	0.77020	0.63386
134	.448	0.23439	0.19306	134	1.47	0.76901	0.63339
135	.446 x	0.23403	0.19292	135	1.46 x	0.76782	0.63293
136	.443	0.23367	0.19278	136	1.45	0.76665	0.63246
137	.441	0.23332	0.19263	137	1.45	0.76548	0.63200
138	.438	0.23296	0.19249	138	1.44	0.76431	0.63154
139	.436	0.23261	0.19236	139	1.43	0.76316	0.63109
140	.433 x	0.23226	0.19222	140	1.42 x	0.76201	0.63063
141	.431	0.23191	0.19208	141	1.41	0.76087	0.63018
142	.428	0.23157	0.19194	142	1.41	0.75973	0.62973
143	.426	0.23122	0.19180	143	1.4	0.75861	0.62928

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Schneider ALPA Apo Switar - AAS 36

Schneider 35/36 Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	.424	0.23088	0.19167	144	1.39	0.75749	0.62883
145	.422 x	0.23054	0.19153	145	1.38 x	0.75637	0.62839
146	.419	0.23020	0.19140	146	1.38	0.75526	0.62794
147	.417	0.22987	0.19126	147	1.37	0.75416	0.62750
148	.415	0.22954	0.19113	148	1.36	0.75307	0.62706
149	.413	0.22920	0.19100	149	1.35	0.75198	0.62663
150	.411 x	0.22887	0.19086	150	1.35 x	0.75090	0.62619
151	.409	0.22855	0.19073	151	1.34	0.74982	0.62576
152	.407	0.22822	0.19060	152	1.33	0.74875	0.62533
153	.405	0.22790	0.19047	153	1.33	0.74769	0.62490
154	.403	0.22757	0.19034	154	1.32	0.74664	0.62447
155	.401 x	0.22725	0.19021	155	1.31 x	0.74559	0.62404
156	.399	0.22694	0.19008	156	1.31	0.74454	0.62362
157	.397	0.22662	0.18995	157	1.3	0.74350	0.62320
158	.395	0.22631	0.18982	158	1.3	0.74247	0.62278
159	.393	0.22599	0.18969	159	1.29	0.74145	0.62236
160	.391 x	0.22568	0.18957	160	1.28 x	0.74043	0.62194
161	.389	0.22537	0.18944	161	1.28	0.73941	0.62153
162	.387	0.22507	0.18932	162	1.27	0.73840	0.62111
163	.386	0.22476	0.18919	163	1.27	0.73740	0.62070
164	.384	0.22446	0.18907	164	1.26	0.73640	0.62029
165	.382 x	0.22415	0.18894	165	1.25 x	0.73541	0.61989
166	.381	0.22385	0.18882	166	1.25	0.73443	0.61948
167	.379	0.22356	0.18869	167	1.24	0.73345	0.61908
168	.377	0.22326	0.18857	168	1.24	0.73247	0.61867
169	.375	0.22296	0.18845	169	1.23	0.73151	0.61827
170	.374 x	0.22267	0.18833	170	1.23 x	0.73054	0.61787
171	.372	0.22238	0.18821	171	1.22	0.72959	0.61748
172	.371	0.22209	0.18809	172	1.22	0.72863	0.61708
173	.369	0.22180	0.18797	173	1.21	0.72769	0.61669
174	.368	0.22151	0.18785	174	1.21	0.72674	0.61630
175	.366 x	0.22123	0.18773	175	1.2 x	0.72581	0.61591
176	.364	0.22094	0.18761	176	1.2	0.72488	0.61552
177	.363	0.22066	0.18749	177	1.19	0.72395	0.61513
178	.361	0.22038	0.18737	178	1.19	0.72303	0.61475
179	.36	0.22010	0.18726	179	1.18	0.72212	0.61436

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Schneider ALPA Apo Switar - AAS 36

Schneider 35/36 Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.359 x	0.21982	0.18714	180	1.18 x	0.72121	0.61398
181	.357	0.21955	0.18703	181	1.17	0.72030	0.61360
182	.356	0.21927	0.18691	182	1.17	0.71940	0.61322
183	.354	0.21900	0.18679	183	1.16	0.71850	0.61284
184	.353	0.21873	0.18668	184	1.16	0.71761	0.61247
185	.351 x	0.21846	0.18657	185	1.15 x	0.71673	0.61209
186	.35	0.21819	0.18645	186	1.15	0.71585	0.61172
187	.349	0.21792	0.18634	187	1.14	0.71497	0.61135
188	.347	0.21766	0.18623	188	1.14	0.71410	0.61098
189	.346	0.21739	0.18612	189	1.14	0.71323	0.61062
190	.345 x	0.21713	0.18600	190	1.13 x	0.71237	0.61025
191	.344	0.21687	0.18589	191	1.13	0.71152	0.60989
192	.342	0.21661	0.18578	192	1.12	0.71066	0.60952
193	.341	0.21635	0.18567	193	1.12	0.70982	0.60916
194	.34	0.21609	0.18556	194	1.11	0.70897	0.60880
195	.339 x	0.21584	0.18545	195	1.11 x	0.70813	0.60844
196	.337	0.21558	0.18534	196	1.11	0.70730	0.60809
197	.336	0.21533	0.18524	197	1.1	0.70647	0.60773
198	.335	0.21508	0.18513	198	1.1	0.70564	0.60738
199	.334	0.21483	0.18502	199	1.09	0.70482	0.60703
200	.333 x	0.21458	0.18491	200	1.09 x	0.70401	0.60668
201	.331	0.21433	0.18481	201	1.09	0.70320	0.60633
202	.33	0.21409	0.18470	202	1.08	0.70239	0.60598
203	.329	0.21384	0.18460	203	1.08	0.70158	0.60563
204	.328	0.21360	0.18449	204	1.08	0.70079	0.60529
205	.327 x	0.21336	0.18439	205	1.07 x	0.69999	0.60494
206	.326	0.21312	0.18428	206	1.07	0.69920	0.60460
207	.325	0.21288	0.18418	207	1.07	0.69841	0.60426
208	.324	0.21264	0.18408	208	1.06	0.69763	0.60392
209	.323	0.21240	0.18397	209	1.06	0.69685	0.60359
210	.321 x	0.21216	0.18387	210	1.05 x	0.69608	0.60325
211	.32	0.21193	0.18377	211	1.05	0.69531	0.60291
212	.319	0.21170	0.18367	212	1.05	0.69454	0.60258
213	.318	0.21146	0.18357	213	1.04	0.69378	0.60225
214	.317	0.21123	0.18346	214	1.04	0.69302	0.60192
215	.316 x	0.21100	0.18336	215	1.04 x	0.69227	0.60159

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Schneider ALPA Apo Switar - AAS 36

Schneider 35/36 Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.315	0.21077	0.18326	216	1.03	0.69152	0.60126
217	.314	0.21055	0.18316	217	1.03	0.69077	0.60094
218	.313	0.21032	0.18307	218	1.03	0.69003	0.60061
219	.312	0.21010	0.18297	219	1.02	0.68929	0.60029
220	.311 x	0.20987	0.18287	220	1.02 x	0.68856	0.59996
221	.31	0.20965	0.18277	221	1.02	0.68782	0.59964
222	.31	0.20943	0.18267	222	1.02	0.68710	0.59932
223	.309	0.20921	0.18258	223	1.01	0.68637	0.59900
224	.308	0.20899	0.18248	224	1.01	0.68565	0.59869
225	.307 x	0.20877	0.18238	225	1.01 x	0.68494	0.59837
226	.306	0.20855	0.18229	226	1	0.68422	0.59806
227	.305	0.20834	0.18219	227	1	0.68352	0.59774
228	.304	0.20812	0.18210	228	.997	0.68281	0.59743
229	.303	0.20791	0.18200	229	.994	0.68211	0.59712
230	.302 x	0.20769	0.18191	230	.992 x	0.68141	0.59681
231	.301	0.20748	0.18181	231	.989	0.68072	0.59650
232	.301	0.20727	0.18172	232	.986	0.68002	0.59620
233	.3	0.20706	0.18163	233	.983	0.67934	0.59589
234	.299	0.20685	0.18154	234	.98	0.67865	0.59559
235	.298 x	0.20665	0.18144	235	.978 x	0.67797	0.59529
236	.297	0.20644	0.18135	236	.975	0.67729	0.59498
237	.296	0.20623	0.18126	237	.972	0.67662	0.59468
238	.295	0.20603	0.18117	238	.969	0.67595	0.59438
239	.295	0.20583	0.18108	239	.967	0.67528	0.59409
240	.294 x	0.20562	0.18099	240	.964 x	0.67462	0.59379
241	.293	0.20542	0.18090	241	.962	0.67396	0.59349
242	.292	0.20522	0.18081	242	.959	0.67330	0.59320
243	.291	0.20502	0.18072	243	.956	0.67265	0.59291
244	.291	0.20482	0.18063	244	.954	0.67200	0.59261
245	.29 x	0.20463	0.18054	245	.951 x	0.67135	0.59232
246	.289	0.20443	0.18045	246	.949	0.67070	0.59203
247	.288	0.20423	0.18036	247	.946	0.67006	0.59175
248	.288	0.20404	0.18028	248	.944	0.66942	0.59146
249	.287	0.20385	0.18019	249	.941	0.66879	0.59117
250	.286 x	0.20365	0.18010	250	.939 x	0.66816	0.59089
251	.285	0.20346	0.18002	251	.937	0.66753	0.59060

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Schneider ALPA Apo Switar - AAS 36

Schneider 35/36 Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.285	0.20327	0.17993	252	.934	0.66690	0.59032
253	.284	0.20308	0.17984	253	.932	0.66628	0.59004
254	.283	0.20289	0.17976	254	.929	0.66566	0.58976
255	.283 x	0.20271	0.17967	255	.927 x	0.66504	0.58948
256	.282	0.20252	0.17959	256	.925	0.66443	0.58920
257	.281	0.20233	0.17950	257	.923	0.66382	0.58893
258	.28	0.20215	0.17942	258	.92	0.66321	0.58865
259	.28	0.20196	0.17934	259	.918	0.66261	0.58838
260	.279 x	0.20178	0.17925	260	.916 x	0.66201	0.58810
261	.278	0.20160	0.17917	261	.914	0.66141	0.58783
262	.278	0.20142	0.17909	262	.911	0.66081	0.58756
263	.277	0.20123	0.17901	263	.909	0.66022	0.58729
264	.276	0.20105	0.17892	264	.907	0.65963	0.58702
265	.276 x	0.20088	0.17884	265	.905 x	0.65904	0.58675
266	.275	0.20070	0.17876	266	.903	0.65846	0.58648
267	.274	0.20052	0.17868	267	.901	0.65787	0.58622
268	.274	0.20034	0.17860	268	.898	0.65729	0.58595
269	.273	0.20017	0.17852	269	.896	0.65672	0.58569
270	.273 x	0.19999	0.17844	270	.894 x	0.65615	0.58543

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Schneider Super-Angulon - SSA 38

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.36609	0.25337	0	∞	XX	1.20108	0.83126
1	56	XX	0.36492	0.25304	1	184	XX	1.19726	0.83018
2	28.1	XX	0.36377	0.25271	2	92.1	XX	1.19347	0.82911
3	18.7	XX	0.36262	0.25239	3	61.5	XX	1.18971	0.82805
4	14.1	XX	0.36149	0.25207	4	46.2	XX	1.18600	0.82699
5	11.3	X	0.36037	0.25174	5	37	X	1.18231	0.82593
6	9.42		0.35926	0.25143	6	30.9		1.17866	0.82489
7	8.09		0.35815	0.25111	7	26.6		1.17505	0.82384
8	7.09		0.35706	0.25079	8	23.3		1.17146	0.82281
9	6.32		0.35598	0.25048	9	20.7		1.16791	0.82178
10	5.7	X	0.35491	0.25017	10	18.7	X	1.16439	0.82075
11	5.19		0.35384	0.24985	11	17		1.16091	0.81973
12	4.76		0.35279	0.24955	12	15.6		1.15745	0.81872
13	4.4		0.35175	0.24924	13	14.5		1.15403	0.81771
14	4.1		0.35071	0.24893	14	13.4		1.15064	0.81671
15	3.83	X	0.34969	0.24863	15	12.6	X	1.14727	0.81571
16	3.6		0.34867	0.24833	16	11.8		1.14394	0.81472
17	3.39		0.34767	0.24802	17	11.1		1.14063	0.81373
18	3.21		0.34667	0.24772	18	10.5		1.13736	0.81275
19	3.05		0.34568	0.24743	19	9.99		1.13411	0.81177
20	2.9	X	0.34470	0.24713	20	9.51	X	1.13089	0.81080
21	2.77		0.34372	0.24684	21	9.07		1.12770	0.80983
22	2.64		0.34276	0.24654	22	8.68		1.12454	0.80887
23	2.53		0.34180	0.24625	23	8.31		1.12141	0.80791
24	2.43		0.34086	0.24596	24	7.98		1.11830	0.80696
25	2.34	X	0.33992	0.24567	25	7.68	X	1.11522	0.80601
26	2.25		0.33899	0.24539	26	7.39		1.11216	0.80507
27	2.17		0.33806	0.24510	27	7.13		1.10913	0.80413
28	2.1		0.33715	0.24482	28	6.89		1.10613	0.80320
29	2.03		0.33624	0.24453	29	6.66		1.10315	0.80227
30	1.97	X	0.33534	0.24425	30	6.45	X	1.10019	0.80135
31	1.91		0.33445	0.24397	31	6.26		1.09726	0.80043
32	1.85		0.33356	0.24369	32	6.07		1.09436	0.79952
33	1.8		0.33268	0.24342	33	5.9		1.09148	0.79861
34	1.75		0.33181	0.24314	34	5.73		1.08862	0.79771
35	1.7	X	0.33095	0.24287	35	5.58	X	1.08579	0.79681

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Schneider Super-Angulon - SSA 38

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	1.66	0.33009	0.24259	36	5.43	1.08298	0.79591
37	1.61	0.32924	0.24232	37	5.3	1.08019	0.79502
38	1.57	0.32840	0.24205	38	5.17	1.07742	0.79414
39	1.54	0.32756	0.24178	39	5.04	1.07468	0.79326
40	1.5 x	0.32673	0.24152	40	4.92 x	1.07196	0.79238
41	1.47	0.32591	0.24125	41	4.81	1.06926	0.79151
42	1.43	0.32510	0.24099	42	4.71	1.06658	0.79064
43	1.4	0.32429	0.24072	43	4.6	1.06393	0.78978
44	1.37	0.32348	0.24046	44	4.51	1.06129	0.78892
45	1.35 x	0.32269	0.24020	45	4.41 x	1.05868	0.78806
46	1.32	0.32190	0.23994	46	4.33	1.05609	0.78721
47	1.29	0.32111	0.23968	47	4.24	1.05352	0.78637
48	1.27	0.32033	0.23943	48	4.16	1.05096	0.78553
49	1.24	0.31956	0.23917	49	4.08	1.04843	0.78469
50	1.22 x	0.31880	0.23892	50	4.01 x	1.04592	0.78385
51	1.2	0.31804	0.23867	51	3.94	1.04343	0.78302
52	1.18	0.31728	0.23841	52	3.87	1.04095	0.78220
53	1.16	0.31653	0.23816	53	3.8	1.03850	0.78138
54	1.14	0.31579	0.23791	54	3.74	1.03606	0.78056
55	1.12 x	0.31505	0.23767	55	3.67 x	1.03364	0.77975
56	1.1	0.31432	0.23742	56	3.61	1.03125	0.77894
57	1.08	0.31360	0.23717	57	3.56	1.02886	0.77813
58	1.07	0.31288	0.23693	58	3.5	1.02650	0.77733
59	1.05	0.31216	0.23669	59	3.45	1.02416	0.77653
60	1.04 x	0.31145	0.23645	60	3.4 x	1.02183	0.77574
61	1.02	0.31075	0.23621	61	3.35	1.01952	0.77495
62	1.01	0.31005	0.23597	62	3.3	1.01723	0.77417
63	.991	0.30936	0.23573	63	3.25	1.01495	0.77338
64	.977	0.30867	0.23549	64	3.21	1.01270	0.77261
65	.964 x	0.30799	0.23525	65	3.16 x	1.01045	0.77183
66	.951	0.30731	0.23502	66	3.12	1.00823	0.77106
67	.938	0.30663	0.23479	67	3.08	1.00602	0.77029
68	.926	0.30597	0.23455	68	3.04	1.00383	0.76953
69	.914	0.30530	0.23432	69	3	1.00165	0.76877
70	.902 x	0.30464	0.23409	70	2.96 x	0.99949	0.76802
71	.891	0.30399	0.23386	71	2.92	0.99735	0.76726

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Schneider Super-Angulon - SSA 38

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	.88	0.30334	0.23363	72	2.89	0.99522	0.76651
73	.869	0.30270	0.23341	73	2.85	0.99310	0.76577
74	.859	0.30206	0.23318	74	2.82	0.99100	0.76503
75	.849 x	0.30142	0.23296	75	2.79 x	0.98892	0.76429
76	.839	0.30079	0.23273	76	2.75	0.98685	0.76356
77	.83	0.30017	0.23251	77	2.72	0.98480	0.76282
78	.82	0.29954	0.23229	78	2.69	0.98276	0.76210
79	.811	0.29893	0.23207	79	2.66	0.98073	0.76137
80	.803 x	0.29831	0.23185	80	2.63 x	0.97872	0.76065
81	.794	0.29771	0.23163	81	2.6	0.97673	0.75994
82	.786	0.29710	0.23141	82	2.58	0.97474	0.75922
83	.777	0.29650	0.23119	83	2.55	0.97277	0.75851
84	.769	0.29591	0.23098	84	2.52	0.97082	0.75780
85	.762 x	0.29531	0.23076	85	2.5 x	0.96888	0.75710
86	.754	0.29473	0.23055	86	2.47	0.96695	0.75640
87	.747	0.29414	0.23034	87	2.45	0.96504	0.75570
88	.739	0.29356	0.23013	88	2.43	0.96313	0.75501
89	.732	0.29299	0.22992	89	2.4	0.96125	0.75432
90	.725 x	0.29242	0.22971	90	2.38 x	0.95937	0.75363
91	.718	0.29185	0.22950	91	2.36	0.95751	0.75295
92	.712	0.29128	0.22929	92	2.34	0.95566	0.75226
93	.705	0.29072	0.22908	93	2.31	0.95382	0.75159
94	.699	0.29017	0.22888	94	2.29	0.95200	0.75091
95	.693 x	0.28962	0.22867	95	2.27 x	0.95018	0.75024
96	.686	0.28907	0.22847	96	2.25	0.94838	0.74957
97	.681	0.28852	0.22827	97	2.23	0.94659	0.74891
98	.675	0.28798	0.22806	98	2.21	0.94482	0.74824
99	.669	0.28744	0.22786	99	2.19	0.94305	0.74758
100	.663 x	0.28691	0.22766	100	2.18 x	0.94130	0.74693
101	.658	0.28638	0.22746	101	2.16	0.93956	0.74627
102	.652	0.28585	0.22727	102	2.14	0.93783	0.74562
103	.647	0.28533	0.22707	103	2.12	0.93611	0.74498
104	.642	0.28481	0.22687	104	2.11	0.93441	0.74433
105	.637 x	0.28429	0.22668	105	2.09 x	0.93271	0.74369
106	.632	0.28378	0.22648	106	2.07	0.93103	0.74305
107	.627	0.28327	0.22629	107	2.06	0.92935	0.74242

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Schneider Super-Angulon - SSA 38

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	.622	0.28276	0.22610	108	2.04	0.92769	0.74178
109	.617	0.28226	0.22590	109	2.03	0.92604	0.74115
110	.613 x	0.28176	0.22571	110	2.01 x	0.92440	0.74053
111	.608	0.28126	0.22552	111	2	0.92277	0.73990
112	.604	0.28077	0.22533	112	1.98	0.92115	0.73928
113	.599	0.28027	0.22514	113	1.97	0.91954	0.73866
114	.595	0.27979	0.22496	114	1.95	0.91794	0.73805
115	.591 x	0.27930	0.22477	115	1.94 x	0.91635	0.73743
116	.587	0.27882	0.22458	116	1.92	0.91477	0.73682
117	.582	0.27834	0.22440	117	1.91	0.91320	0.73621
118	.578	0.27787	0.22421	118	1.9	0.91164	0.73561
119	.575	0.27740	0.22403	119	1.88	0.91009	0.73501
120	.571 x	0.27693	0.22385	120	1.87 x	0.90855	0.73441
121	.567	0.27646	0.22367	121	1.86	0.90702	0.73381
122	.563	0.27600	0.22348	122	1.85	0.90550	0.73322
123	.559	0.27554	0.22330	123	1.84	0.90399	0.73263
124	.556	0.27508	0.22312	124	1.82	0.90249	0.73204
125	.552 x	0.27462	0.22295	125	1.81 x	0.90100	0.73145
126	.549	0.27417	0.22277	126	1.8	0.89952	0.73087
127	.545	0.27372	0.22259	127	1.79	0.89804	0.73029
128	.542	0.27328	0.22241	128	1.78	0.89658	0.72971
129	.538	0.27283	0.22224	129	1.77	0.89512	0.72913
130	.535 x	0.27239	0.22206	130	1.76 x	0.89368	0.72856
131	.532	0.27195	0.22189	131	1.74	0.89224	0.72799
132	.529	0.27152	0.22172	132	1.73	0.89081	0.72742
133	.525	0.27109	0.22154	133	1.72	0.88939	0.72685
134	.522	0.27066	0.22137	134	1.71	0.88798	0.72629
135	.519 x	0.27023	0.22120	135	1.7 x	0.88658	0.72573
136	.516	0.26980	0.22103	136	1.69	0.88518	0.72517
137	.513	0.26938	0.22086	137	1.68	0.88379	0.72461
138	.51	0.26896	0.22069	138	1.67	0.88242	0.72406
139	.507	0.26854	0.22053	139	1.66	0.88105	0.72351
140	.505 x	0.26813	0.22036	140	1.66 x	0.87969	0.72296
141	.502	0.26772	0.22019	141	1.65	0.87833	0.72241
142	.499	0.26731	0.22003	142	1.64	0.87699	0.72187
143	.496	0.26690	0.21986	143	1.63	0.87565	0.72133

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Schneider Super-Angulon - SSA 38

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	.494	0.26649	0.21970	144	1.62	0.87432	0.72079
145	.491 x	0.26609	0.21953	145	1.61 x	0.87300	0.72025
146	.488	0.26569	0.21937	146	1.6	0.87169	0.71971
147	.486	0.26529	0.21921	147	1.59	0.87038	0.71918
148	.483	0.26490	0.21905	148	1.59	0.86909	0.71865
149	.481	0.26450	0.21888	149	1.58	0.86779	0.71812
150	.478 x	0.26411	0.21872	150	1.57 x	0.86651	0.71760
151	.476	0.26372	0.21856	151	1.56	0.86524	0.71708
152	.473	0.26334	0.21841	152	1.55	0.86397	0.71655
153	.471	0.26295	0.21825	153	1.55	0.86271	0.71604
154	.469	0.26257	0.21809	154	1.54	0.86146	0.71552
155	.466 x	0.26219	0.21793	155	1.53 x	0.86021	0.71500
156	.464	0.26181	0.21778	156	1.52	0.85897	0.71449
157	.462	0.26144	0.21762	157	1.52	0.85774	0.71398
158	.46	0.26107	0.21747	158	1.51	0.85651	0.71347
159	.457	0.26069	0.21731	159	1.5	0.85530	0.71297
160	.455 x	0.26033	0.21716	160	1.49 x	0.85409	0.71246
161	.453	0.25996	0.21701	161	1.49	0.85288	0.71196
162	.451	0.25959	0.21685	162	1.48	0.85169	0.71146
163	.449	0.25923	0.21670	163	1.47	0.85050	0.71097
164	.447	0.25887	0.21655	164	1.47	0.84931	0.71047
165	.445 x	0.25851	0.21640	165	1.46 x	0.84814	0.70998
166	.443	0.25816	0.21625	166	1.45	0.84697	0.70949
167	.441	0.25780	0.21610	167	1.45	0.84580	0.70900
168	.439	0.25745	0.21595	168	1.44	0.84465	0.70851
169	.437	0.25710	0.21581	169	1.43	0.84350	0.70803
170	.435 x	0.25675	0.21566	170	1.43 x	0.84235	0.70754
171	.433	0.25640	0.21551	171	1.42	0.84121	0.70706
172	.431	0.25606	0.21537	172	1.41	0.84008	0.70658
173	.429	0.25571	0.21522	173	1.41	0.83896	0.70611
174	.427	0.25537	0.21508	174	1.4	0.83784	0.70563
175	.426 x	0.25503	0.21493	175	1.4 x	0.83673	0.70516
176	.424	0.25470	0.21479	176	1.39	0.83562	0.70469
177	.422	0.25436	0.21465	177	1.38	0.83452	0.70422
178	.42	0.25403	0.21450	178	1.38	0.83343	0.70375
179	.419	0.25370	0.21436	179	1.37	0.83234	0.70329

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Schneider Super-Angulon - SSA 38

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.417 x	0.25337	0.21422	180	1.37 x	0.83126	0.70282
181	.415	0.25304	0.21408	181	1.36	0.83018	0.70236
182	.414	0.25271	0.21394	182	1.36	0.82911	0.70190
183	.412	0.25239	0.21380	183	1.35	0.82805	0.70145
184	.41	0.25207	0.21366	184	1.35	0.82699	0.70099
185	.409 x	0.25174	0.21352	185	1.34 x	0.82593	0.70054
186	.407	0.25143	0.21339	186	1.34	0.82489	0.70009
187	.405	0.25111	0.21325	187	1.33	0.82384	0.69964
188	.404	0.25079	0.21311	188	1.33	0.82281	0.69919
189	.402	0.25048	0.21298	189	1.32	0.82178	0.69874
190	.401 x	0.25017	0.21284	190	1.31 x	0.82075	0.69830
191	.399	0.24985	0.21271	191	1.31	0.81973	0.69786
192	.398	0.24955	0.21257	192	1.31	0.81872	0.69742
193	.396	0.24924	0.21244	193	1.3	0.81771	0.69698
194	.395	0.24893	0.21231	194	1.3	0.81671	0.69654
195	.393 x	0.24863	0.21217	195	1.29 x	0.81571	0.69610
196	.392	0.24833	0.21204	196	1.29	0.81472	0.69567
197	.391	0.24802	0.21191	197	1.28	0.81373	0.69524
198	.389	0.24772	0.21178	198	1.28	0.81275	0.69481
199	.388	0.24743	0.21165	199	1.27	0.81177	0.69438
200	.386 x	0.24713	0.21152	200	1.27 x	0.81080	0.69396
201	.385	0.24684	0.21139	201	1.26	0.80983	0.69353
202	.384	0.24654	0.21126	202	1.26	0.80887	0.69311
203	.382	0.24625	0.21113	203	1.25	0.80791	0.69269
204	.381	0.24596	0.21100	204	1.25	0.80696	0.69227
205	.38 x	0.24567	0.21088	205	1.25 x	0.80601	0.69185
206	.378	0.24539	0.21075	206	1.24	0.80507	0.69143
207	.377	0.24510	0.21062	207	1.24	0.80413	0.69102
208	.376	0.24482	0.21050	208	1.23	0.80320	0.69061
209	.375	0.24453	0.21037	209	1.23	0.80227	0.69019
210	.373 x	0.24425	0.21025	210	1.22 x	0.80135	0.68978
211	.372	0.24397	0.21012	211	1.22	0.80043	0.68938
212	.371	0.24369	0.21000	212	1.22	0.79952	0.68897
213	.37	0.24342	0.20987	213	1.21	0.79861	0.68857
214	.368	0.24314	0.20975	214	1.21	0.79771	0.68816
215	.367 x	0.24287	0.20963	215	1.2 x	0.79681	0.68776

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Schneider Super-Angulon - SSA 38

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.366	0.24259	0.20951	216	1.2	0.79591	0.68736
217	.365	0.24232	0.20939	217	1.2	0.79502	0.68696
218	.364	0.24205	0.20927	218	1.19	0.79414	0.68657
219	.363	0.24178	0.20915	219	1.19	0.79326	0.68617
220	.361 x	0.24152	0.20903	220	1.19 x	0.79238	0.68578
221	.36	0.24125	0.20891	221	1.18	0.79151	0.68539
222	.359	0.24099	0.20879	222	1.18	0.79064	0.68500
223	.358	0.24072	0.20867	223	1.18	0.78978	0.68461
224	.357	0.24046	0.20855	224	1.17	0.78892	0.68422
225	.356 x	0.24020	0.20843	225	1.17 x	0.78806	0.68384
226	.355	0.23994	0.20832	226	1.16	0.78721	0.68345
227	.354	0.23968	0.20820	227	1.16	0.78637	0.68307
228	.353	0.23943	0.20808	228	1.16	0.78553	0.68269
229	.352	0.23917	0.20797	229	1.15	0.78469	0.68231
230	.351 x	0.23892	0.20785	230	1.15 x	0.78385	0.68193
231	.35	0.23867	0.20774	231	1.15	0.78302	0.68155
232	.349	0.23841	0.20762	232	1.14	0.78220	0.68118
233	.348	0.23816	0.20751	233	1.14	0.78138	0.68081
234	.347	0.23791	0.20740	234	1.14	0.78056	0.68043
235	.346 x	0.23767	0.20728	235	1.13 x	0.77975	0.68006
236	.345	0.23742	0.20717	236	1.13	0.77894	0.67969
237	.344	0.23717	0.20706	237	1.13	0.77813	0.67933
238	.343	0.23693	0.20695	238	1.12	0.77733	0.67896
239	.342	0.23669	0.20684	239	1.12	0.77653	0.67860
240	.341 x	0.23645	0.20673	240	1.12 x	0.77574	0.67823
241	.34	0.23621	0.20662	241	1.12	0.77495	0.67787
242	.339	0.23597	0.20651	242	1.11	0.77417	0.67751
243	.338	0.23573	0.20640	243	1.11	0.77338	0.67715
244	.337	0.23549	0.20629	244	1.11	0.77261	0.67679
245	.336 x	0.23525	0.20618	245	1.1 x	0.77183	0.67644
246	.335	0.23502	0.20607	246	1.1	0.77106	0.67608
247	.334	0.23479	0.20596	247	1.1	0.77029	0.67573
248	.334	0.23455	0.20585	248	1.09	0.76953	0.67538
249	.333	0.23432	0.20575	249	1.09	0.76877	0.67503
250	.332 x	0.23409	0.20564	250	1.09 x	0.76802	0.67468
251	.331	0.23386	0.20554	251	1.09	0.76726	0.67433

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Schneider Super-Angulon - SSA 38

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.33	0.23363	0.20543	252	1.08	0.76651	0.67398
253	.329	0.23341	0.20532	253	1.08	0.76577	0.67364
254	.328	0.23318	0.20522	254	1.08	0.76503	0.67329
255	.328 x	0.23296	0.20512	255	1.07 x	0.76429	0.67295
256	.327	0.23273	0.20501	256	1.07	0.76356	0.67261
257	.326	0.23251	0.20491	257	1.07	0.76282	0.67227
258	.325	0.23229	0.20480	258	1.07	0.76210	0.67193
259	.324	0.23207	0.20470	259	1.06	0.76137	0.67159
260	.323 x	0.23185	0.20460	260	1.06 x	0.76065	0.67126
261	.323	0.23163	0.20450	261	1.06	0.75994	0.67092
262	.322	0.23141	0.20440	262	1.06	0.75922	0.67059
263	.321	0.23119	0.20429	263	1.05	0.75851	0.67026
264	.32	0.23098	0.20419	264	1.05	0.75780	0.66993
265	.32 x	0.23076	0.20409	265	1.05 x	0.75710	0.66960
266	.319	0.23055	0.20399	266	1.05	0.75640	0.66927
267	.318	0.23034	0.20389	267	1.04	0.75570	0.66894
268	.317	0.23013	0.20379	268	1.04	0.75501	0.66862
269	.317	0.22992	0.20370	269	1.04	0.75432	0.66829
270	.316 x	0.22971	0.20360	270	1.04 x	0.75363	0.66797

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Schneider ALPA Apo Helvetar Aspheric - AAH 43

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.44640	0.30037	0	∞	XX	1.46457	0.98546
1	71.9	XX	0.44490	0.29994	1	236	XX	1.45964	0.98405
2	36	XX	0.44341	0.29951	2	118	XX	1.45475	0.98265
3	24	XX	0.44193	0.29909	3	78.8	XX	1.44991	0.98126
4	18.1	XX	0.44047	0.29867	4	59.2	XX	1.44511	0.97988
5	14.5	X	0.43902	0.29825	5	47.4	X	1.44036	0.97850
6	12.1		0.43759	0.29783	6	39.6		1.43565	0.97713
7	10.4		0.43616	0.29741	7	34		1.43099	0.97577
8	9.08		0.43476	0.29700	8	29.8		1.42636	0.97442
9	8.08		0.43336	0.29659	9	26.5		1.42178	0.97307
10	7.29	X	0.43198	0.29618	10	23.9	X	1.41724	0.97173
11	6.63		0.43060	0.29578	11	21.8		1.41275	0.97039
12	6.09		0.42925	0.29537	12	20		1.40829	0.96907
13	5.63		0.42790	0.29497	13	18.5		1.40387	0.96775
14	5.23		0.42656	0.29457	14	17.2		1.39949	0.96643
15	4.89	X	0.42524	0.29417	15	16.1	X	1.39515	0.96513
16	4.59		0.42393	0.29377	16	15.1		1.39085	0.96383
17	4.33		0.42263	0.29338	17	14.2		1.38658	0.96253
18	4.1		0.42134	0.29299	18	13.4		1.38235	0.96125
19	3.89		0.42006	0.29260	19	12.7		1.37816	0.95997
20	3.7	X	0.41880	0.29221	20	12.1	X	1.37401	0.95870
21	3.53		0.41754	0.29182	21	11.6		1.36989	0.95743
22	3.37		0.41630	0.29144	22	11.1		1.36581	0.95617
23	3.23		0.41506	0.29106	23	10.6		1.36176	0.95492
24	3.1		0.41384	0.29068	24	10.2		1.35774	0.95367
25	2.98	X	0.41263	0.29030	25	9.78	X	1.35376	0.95243
26	2.87		0.41142	0.28992	26	9.41		1.34982	0.95120
27	2.77		0.41023	0.28955	27	9.08		1.34590	0.94997
28	2.67		0.40905	0.28918	28	8.77		1.34202	0.94875
29	2.58		0.40788	0.28881	29	8.48		1.33818	0.94753
30	2.5	X	0.40671	0.28844	30	8.21	X	1.33436	0.94632
31	2.42		0.40556	0.28807	31	7.95		1.33058	0.94512
32	2.35		0.40442	0.28771	32	7.72		1.32682	0.94392
33	2.28		0.40328	0.28734	33	7.49		1.32310	0.94273
34	2.22		0.40216	0.28698	34	7.28		1.31941	0.94154
35	2.16	X	0.40104	0.28662	35	7.09	X	1.31575	0.94036

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Schneider ALPA Apo Helvetar Aspheric - AAH 43

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**		Degrees*	Feet		H +6**	H +17**
36	2.1		0.39993	0.28627		36	6.9		1.31212	0.93919
37	2.05		0.39884	0.28591		37	6.72		1.30851	0.93802
38	2		0.39775	0.28556		38	6.55		1.30494	0.93686
39	1.95		0.39667	0.28520		39	6.4		1.30140	0.93570
40	1.9	x	0.39559	0.28485		40	6.25	x	1.29788	0.93455
41	1.86		0.39453	0.28450		41	6.1		1.29439	0.93341
42	1.82		0.39348	0.28416		42	5.96		1.29093	0.93227
43	1.78		0.39243	0.28381		43	5.83		1.28750	0.93114
44	1.74		0.39139	0.28347		44	5.71		1.28410	0.93001
45	1.7	x	0.39036	0.28312		45	5.59	x	1.28072	0.92889
46	1.67		0.38934	0.28278		46	5.48		1.27736	0.92777
47	1.64		0.38833	0.28245		47	5.37		1.27404	0.92666
48	1.6		0.38732	0.28211		48	5.26		1.27074	0.92555
49	1.57		0.38632	0.28177		49	5.16		1.26746	0.92445
50	1.54	x	0.38533	0.28144		50	5.07	x	1.26421	0.92336
51	1.52		0.38435	0.28111		51	4.98		1.26099	0.92227
52	1.49		0.38337	0.28078		52	4.89		1.25779	0.92118
53	1.46		0.38241	0.28045		53	4.8		1.25462	0.92010
54	1.44		0.38145	0.28012		54	4.72		1.25146	0.91903
55	1.41	x	0.38049	0.27979		55	4.64	x	1.24834	0.91796
56	1.39		0.37955	0.27947		56	4.56		1.24523	0.91690
57	1.37		0.37861	0.27915		57	4.49		1.24215	0.91584
58	1.35		0.37768	0.27883		58	4.42		1.23910	0.91478
59	1.33		0.37675	0.27851		59	4.35		1.23606	0.91373
60	1.31	x	0.37583	0.27819		60	4.28	x	1.23305	0.91269
61	1.29		0.37492	0.27787		61	4.22		1.23006	0.91165
62	1.27		0.37402	0.27756		62	4.16		1.22710	0.91062
63	1.25		0.37312	0.27724		63	4.1		1.22415	0.90959
64	1.23		0.37223	0.27693		64	4.04		1.22123	0.90856
65	1.21	x	0.37135	0.27662		65	3.98	x	1.21833	0.90755
66	1.2		0.37047	0.27631		66	3.93		1.21545	0.90653
67	1.18		0.36960	0.27600		67	3.88		1.21259	0.90552
68	1.17		0.36873	0.27570		68	3.82		1.20975	0.90452
69	1.15		0.36787	0.27539		69	3.77		1.20693	0.90352
70	1.14	x	0.36702	0.27509		70	3.72	x	1.20413	0.90252
71	1.12		0.36617	0.27479		71	3.68		1.20136	0.90153

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Schneider ALPA Apo Helvetar Aspheric - AAH 43

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	1.11	0.36533	0.27449	72	3.63	1.19860	0.90054
73	1.09	0.36450	0.27419	73	3.59	1.19586	0.89956
74	1.08	0.36367	0.27389	74	3.54	1.19314	0.89858
75	1.07 x	0.36285	0.27359	75	3.5 x	1.19044	0.89761
76	1.05	0.36203	0.27330	76	3.46	1.18776	0.89664
77	1.04	0.36122	0.27300	77	3.42	1.18510	0.89568
78	1.03	0.36041	0.27271	78	3.38	1.18246	0.89472
79	1.02	0.35961	0.27242	79	3.34	1.17984	0.89377
80	1.01 x	0.35882	0.27213	80	3.31 x	1.17723	0.89282
81	.996	0.35803	0.27184	81	3.27	1.17464	0.89187
82	.986	0.35725	0.27156	82	3.23	1.17207	0.89093
83	.975	0.35647	0.27127	83	3.2	1.16952	0.88999
84	.965	0.35570	0.27099	84	3.17	1.16699	0.88906
85	.955 x	0.35493	0.27070	85	3.13 x	1.16447	0.88813
86	.945	0.35417	0.27042	86	3.1	1.16197	0.88721
87	.935	0.35341	0.27014	87	3.07	1.15949	0.88628
88	.926	0.35266	0.26986	88	3.04	1.15703	0.88537
89	.917	0.35192	0.26958	89	3.01	1.15458	0.88446
90	.908 x	0.35117	0.26931	90	2.98 x	1.15215	0.88355
91	.899	0.35044	0.26903	91	2.95	1.14973	0.88265
92	.891	0.34971	0.26876	92	2.92	1.14733	0.88175
93	.882	0.34898	0.26848	93	2.9	1.14495	0.88085
94	.874	0.34826	0.26821	94	2.87	1.14258	0.87996
95	.866 x	0.34754	0.26794	95	2.84 x	1.14023	0.87907
96	.858	0.34683	0.26767	96	2.82	1.13789	0.87819
97	.851	0.34612	0.26740	97	2.79	1.13557	0.87731
98	.843	0.34542	0.26714	98	2.77	1.13327	0.87643
99	.836	0.34472	0.26687	99	2.74	1.13098	0.87556
100	.829 x	0.34403	0.26661	100	2.72 x	1.12871	0.87469
101	.822	0.34334	0.26634	101	2.7	1.12645	0.87383
102	.815	0.34266	0.26608	102	2.67	1.12420	0.87297
103	.808	0.34198	0.26582	103	2.65	1.12197	0.87211
104	.801	0.34130	0.26556	104	2.63	1.11976	0.87126
105	.795 x	0.34063	0.26530	105	2.61 x	1.11755	0.87041
106	.788	0.33996	0.26504	106	2.59	1.11537	0.86956
107	.782	0.33930	0.26479	107	2.57	1.11319	0.86872

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Schneider ALPA Apo Helvetar Aspheric - AAH 43

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	.776	0.33864	0.26453	108	2.54	1.11104	0.86789
109	.77	0.33799	0.26428	109	2.52	1.10889	0.86705
110	.764 x	0.33734	0.26402	110	2.51 x	1.10676	0.86622
111	.758	0.33669	0.26377	111	2.49	1.10464	0.86539
112	.752	0.33605	0.26352	112	2.47	1.10254	0.86457
113	.746	0.33542	0.26327	113	2.45	1.10045	0.86375
114	.741	0.33478	0.26302	114	2.43	1.09837	0.86294
115	.735 x	0.33415	0.26278	115	2.41 x	1.09630	0.86212
116	.73	0.33353	0.26253	116	2.4	1.09425	0.86131
117	.725	0.33291	0.26228	117	2.38	1.09221	0.86051
118	.72	0.33229	0.26204	118	2.36	1.09019	0.85971
119	.715	0.33168	0.26180	119	2.34	1.08817	0.85891
120	.71 x	0.33107	0.26155	120	2.33 x	1.08617	0.85811
121	.705	0.33046	0.26131	121	2.31	1.08419	0.85732
122	.7	0.32986	0.26107	122	2.3	1.08221	0.85653
123	.695	0.32926	0.26083	123	2.28	1.08025	0.85575
124	.69	0.32866	0.26059	124	2.26	1.07829	0.85497
125	.686 x	0.32807	0.26036	125	2.25 x	1.07635	0.85419
126	.681	0.32748	0.26012	126	2.24	1.07443	0.85342
127	.677	0.32690	0.25989	127	2.22	1.07251	0.85264
128	.672	0.32632	0.25965	128	2.21	1.07061	0.85188
129	.668	0.32574	0.25942	129	2.19	1.06871	0.85111
130	.664 x	0.32517	0.25919	130	2.18 x	1.06683	0.85035
131	.66	0.32460	0.25896	131	2.16	1.06496	0.84959
132	.656	0.32403	0.25873	132	2.15	1.06310	0.84884
133	.651	0.32347	0.25850	133	2.14	1.06125	0.84808
134	.647	0.32291	0.25827	134	2.12	1.05942	0.84734
135	.644 x	0.32235	0.25804	135	2.11 x	1.05759	0.84659
136	.64	0.32180	0.25781	136	2.1	1.05578	0.84585
137	.636	0.32125	0.25759	137	2.09	1.05397	0.84511
138	.632	0.32070	0.25736	138	2.07	1.05218	0.84437
139	.628	0.32016	0.25714	139	2.06	1.05040	0.84364
140	.625 x	0.31962	0.25692	140	2.05 x	1.04863	0.84291
141	.621	0.31908	0.25670	141	2.04	1.04686	0.84218
142	.617	0.31855	0.25648	142	2.03	1.04511	0.84146
143	.614	0.31802	0.25626	143	2.01	1.04337	0.84074

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Schneider ALPA Apo Helvetar Aspheric - AAH 43

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	.611	0.31749	0.25604	144	2	1.04164	0.84002
145	.607 x	0.31697	0.25582	145	1.99 x	1.03992	0.83931
146	.604	0.31645	0.25560	146	1.98	1.03821	0.83859
147	.6	0.31593	0.25539	147	1.97	1.03651	0.83788
148	.597	0.31541	0.25517	148	1.96	1.03482	0.83718
149	.594	0.31490	0.25496	149	1.95	1.03314	0.83648
150	.591 x	0.31439	0.25474	150	1.94 x	1.03147	0.83578
151	.588	0.31388	0.25453	151	1.93	1.02980	0.83508
152	.585	0.31338	0.25432	152	1.92	1.02815	0.83438
153	.581	0.31288	0.25411	153	1.91	1.02651	0.83369
154	.578	0.31238	0.25390	154	1.9	1.02487	0.83300
155	.575 x	0.31189	0.25369	155	1.89 x	1.02325	0.83232
156	.573	0.31139	0.25348	156	1.88	1.02164	0.83163
157	.57	0.31091	0.25327	157	1.87	1.02003	0.83095
158	.567	0.31042	0.25307	158	1.86	1.01843	0.83028
159	.564	0.30993	0.25286	159	1.85	1.01685	0.82960
160	.561 x	0.30945	0.25266	160	1.84 x	1.01527	0.82893
161	.558	0.30897	0.25245	161	1.83	1.01370	0.82826
162	.556	0.30850	0.25225	162	1.82	1.01214	0.82759
163	.553	0.30803	0.25205	163	1.81	1.01058	0.82693
164	.55	0.30756	0.25185	164	1.81	1.00904	0.82627
165	.548 x	0.30709	0.25165	165	1.8 x	1.00750	0.82561
166	.545	0.30662	0.25145	166	1.79	1.00598	0.82496
167	.543	0.30616	0.25125	167	1.78	1.00446	0.82430
168	.54	0.30570	0.25105	168	1.77	1.00295	0.82365
169	.538	0.30524	0.25085	169	1.76	1.00145	0.82300
170	.535 x	0.30479	0.25066	170	1.76 x	0.99995	0.82236
171	.533	0.30433	0.25046	171	1.75	0.99847	0.82172
172	.53	0.30388	0.25026	172	1.74	0.99699	0.82108
173	.528	0.30344	0.25007	173	1.73	0.99552	0.82044
174	.525	0.30299	0.24988	174	1.72	0.99406	0.81980
175	.523 x	0.30255	0.24968	175	1.72 x	0.99261	0.81917
176	.521	0.30211	0.24949	176	1.71	0.99116	0.81854
177	.519	0.30167	0.24930	177	1.7	0.98973	0.81791
178	.516	0.30123	0.24911	178	1.69	0.98830	0.81729
179	.514	0.30080	0.24892	179	1.69	0.98687	0.81667

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Schneider ALPA Apo Helvetar Aspheric - AAH 43

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.512 x	0.30037	0.24873	180	1.68 x	0.98546	0.81605
181	.51	0.29994	0.24854	181	1.67	0.98405	0.81543
182	.508	0.29951	0.24836	182	1.67	0.98265	0.81482
183	.505	0.29909	0.24817	183	1.66	0.98126	0.81420
184	.503	0.29867	0.24798	184	1.65	0.97988	0.81359
185	.501 x	0.29825	0.24780	185	1.64 x	0.97850	0.81299
186	.499	0.29783	0.24761	186	1.64	0.97713	0.81238
187	.497	0.29741	0.24743	187	1.63	0.97577	0.81178
188	.495	0.29700	0.24725	188	1.62	0.97442	0.81118
189	.493	0.29659	0.24706	189	1.62	0.97307	0.81058
190	.491 x	0.29618	0.24688	190	1.61 x	0.97173	0.80998
191	.489	0.29578	0.24670	191	1.6	0.97039	0.80939
192	.487	0.29537	0.24652	192	1.6	0.96907	0.80880
193	.485	0.29497	0.24634	193	1.59	0.96775	0.80821
194	.483	0.29457	0.24616	194	1.59	0.96643	0.80762
195	.482 x	0.29417	0.24599	195	1.58 x	0.96513	0.80704
196	.48	0.29377	0.24581	196	1.57	0.96383	0.80646
197	.478	0.29338	0.24563	197	1.57	0.96253	0.80588
198	.476	0.29299	0.24546	198	1.56	0.96125	0.80530
199	.474	0.29260	0.24528	199	1.56	0.95997	0.80473
200	.473 x	0.29221	0.24511	200	1.55 x	0.95870	0.80415
201	.471	0.29182	0.24493	201	1.54	0.95743	0.80358
202	.469	0.29144	0.24476	202	1.54	0.95617	0.80301
203	.467	0.29106	0.24459	203	1.53	0.95492	0.80245
204	.466	0.29068	0.24441	204	1.53	0.95367	0.80188
205	.464 x	0.29030	0.24424	205	1.52 x	0.95243	0.80132
206	.462	0.28992	0.24407	206	1.52	0.95120	0.80076
207	.461	0.28955	0.24390	207	1.51	0.94997	0.80020
208	.459	0.28918	0.24373	208	1.51	0.94875	0.79965
209	.457	0.28881	0.24356	209	1.5	0.94753	0.79910
210	.456 x	0.28844	0.24340	210	1.5 x	0.94632	0.79854
211	.454	0.28807	0.24323	211	1.49	0.94512	0.79800
212	.453	0.28771	0.24306	212	1.48	0.94392	0.79745
213	.451	0.28734	0.24290	213	1.48	0.94273	0.79690
214	.449	0.28698	0.24273	214	1.47	0.94154	0.79636
215	.448 x	0.28662	0.24257	215	1.47 x	0.94036	0.79582

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Schneider ALPA Apo Helvetar Aspheric - AAH 43

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.446	0.28627	0.24240	216	1.46	0.93919	0.79528
217	.445	0.28591	0.24224	217	1.46	0.93802	0.79475
218	.443	0.28556	0.24208	218	1.45	0.93686	0.79421
219	.442	0.28520	0.24191	219	1.45	0.93570	0.79368
220	.44 x	0.28485	0.24175	220	1.45 x	0.93455	0.79315
221	.439	0.28450	0.24159	221	1.44	0.93341	0.79262
222	.438	0.28416	0.24143	222	1.44	0.93227	0.79209
223	.436	0.28381	0.24127	223	1.43	0.93114	0.79157
224	.435	0.28347	0.24111	224	1.43	0.93001	0.79105
225	.433 x	0.28312	0.24095	225	1.42 x	0.92889	0.79053
226	.432	0.28278	0.24079	226	1.42	0.92777	0.79001
227	.431	0.28245	0.24064	227	1.41	0.92666	0.78949
228	.429	0.28211	0.24048	228	1.41	0.92555	0.78898
229	.428	0.28177	0.24032	229	1.4	0.92445	0.78846
230	.427 x	0.28144	0.24017	230	1.4 x	0.92336	0.78795
231	.425	0.28111	0.24001	231	1.4	0.92227	0.78744
232	.424	0.28078	0.23986	232	1.39	0.92118	0.78694
233	.423	0.28045	0.23970	233	1.39	0.92010	0.78643
234	.421	0.28012	0.23955	234	1.38	0.91903	0.78593
235	.42 x	0.27979	0.23940	235	1.38 x	0.91796	0.78543
236	.419	0.27947	0.23925	236	1.37	0.91690	0.78493
237	.418	0.27915	0.23909	237	1.37	0.91584	0.78443
238	.416	0.27883	0.23894	238	1.37	0.91478	0.78394
239	.415	0.27851	0.23879	239	1.36	0.91373	0.78344
240	.414 x	0.27819	0.23864	240	1.36 x	0.91269	0.78295
241	.413	0.27787	0.23849	241	1.35	0.91165	0.78246
242	.411	0.27756	0.23835	242	1.35	0.91062	0.78197
243	.41	0.27724	0.23820	243	1.35	0.90959	0.78149
244	.409	0.27693	0.23805	244	1.34	0.90856	0.78100
245	.408 x	0.27662	0.23790	245	1.34 x	0.90755	0.78052
246	.407	0.27631	0.23776	246	1.33	0.90653	0.78004
247	.406	0.27600	0.23761	247	1.33	0.90552	0.77956
248	.404	0.27570	0.23746	248	1.33	0.90452	0.77908
249	.403	0.27539	0.23732	249	1.32	0.90352	0.77860
250	.402 x	0.27509	0.23717	250	1.32 x	0.90252	0.77813
251	.401	0.27479	0.23703	251	1.32	0.90153	0.77766

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Schneider ALPA Apo Helvetar Aspheric - AAH 43

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.4	0.27449	0.23689	252	1.31	0.90054	0.77719
253	.399	0.27419	0.23674	253	1.31	0.89956	0.77672
254	.398	0.27389	0.23660	254	1.3	0.89858	0.77625
255	.397 x	0.27359	0.23646	255	1.3 x	0.89761	0.77579
256	.396	0.27330	0.23632	256	1.3	0.89664	0.77532
257	.395	0.27300	0.23618	257	1.29	0.89568	0.77486
258	.393	0.27271	0.23604	258	1.29	0.89472	0.77440
259	.392	0.27242	0.23590	259	1.29	0.89377	0.77394
260	.391 x	0.27213	0.23576	260	1.28 x	0.89282	0.77349
261	.39	0.27184	0.23562	261	1.28	0.89187	0.77303
262	.389	0.27156	0.23548	262	1.28	0.89093	0.77258
263	.388	0.27127	0.23534	263	1.27	0.88999	0.77212
264	.387	0.27099	0.23521	264	1.27	0.88906	0.77167
265	.386 x	0.27070	0.23507	265	1.27 x	0.88813	0.77123
266	.385	0.27042	0.23493	266	1.26	0.88721	0.77078
267	.384	0.27014	0.23480	267	1.26	0.88628	0.77033
268	.383	0.26986	0.23466	268	1.26	0.88537	0.76989
269	.382	0.26958	0.23453	269	1.25	0.88446	0.76945
270	.381 x	0.26931	0.23439	270	1.25 x	0.88355	0.76901

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Schneider Super-Angulon - SSA 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.51007	0.34082	0	∞	XX	1.67346	1.11816
1	82.9	XX	0.50833	0.34032	1	272	XX	1.66775	1.11652
2	41.5	XX	0.50661	0.33982	2	136	XX	1.66210	1.11490
3	27.7	XX	0.50490	0.33933	3	91	XX	1.65650	1.11328
4	20.8	XX	0.50321	0.33884	4	68.3	XX	1.65096	1.11167
5	16.7	X	0.50154	0.33835	5	54.7	X	1.64546	1.11006
6	13.9		0.49988	0.33786	6	45.7		1.64001	1.10847
7	12		0.49823	0.33738	7	39.2		1.63462	1.10688
8	10.5		0.49660	0.33690	8	34.4		1.62927	1.10531
9	9.32		0.49499	0.33642	9	30.6		1.62397	1.10374
10	8.4	X	0.49339	0.33594	10	27.6	X	1.61872	1.10218
11	7.65		0.49180	0.33547	11	25.1		1.61351	1.10062
12	7.02		0.49023	0.33500	12	23		1.60836	1.09908
13	6.49		0.48867	0.33453	13	21.3		1.60324	1.09754
14	6.04		0.48712	0.33406	14	19.8		1.59818	1.09601
15	5.64	X	0.48559	0.33360	15	18.5	X	1.59315	1.09449
16	5.3		0.48408	0.33314	16	17.4		1.58818	1.09298
17	4.99		0.48257	0.33268	17	16.4		1.58324	1.09147
18	4.72		0.48108	0.33222	18	15.5		1.57835	1.08997
19	4.48		0.47960	0.33177	19	14.7		1.57350	1.08848
20	4.26	X	0.47814	0.33132	20	14	X	1.56869	1.08700
21	4.06		0.47668	0.33087	21	13.3		1.56393	1.08553
22	3.89		0.47524	0.33042	22	12.7		1.55920	1.08406
23	3.72		0.47382	0.32998	23	12.2		1.55452	1.08260
24	3.57		0.47240	0.32953	24	11.7		1.54987	1.08115
25	3.43	X	0.47100	0.32909	25	11.3	X	1.54527	1.07970
26	3.31		0.46961	0.32865	26	10.8		1.54070	1.07826
27	3.19		0.46822	0.32822	27	10.5		1.53617	1.07683
28	3.08		0.46686	0.32778	28	10.1		1.53168	1.07541
29	2.98		0.46550	0.32735	29	9.77		1.52723	1.07399
30	2.88	X	0.46415	0.32692	30	9.45	X	1.52281	1.07258
31	2.79		0.46282	0.32650	31	9.16		1.51843	1.07118
32	2.71		0.46149	0.32607	32	8.89		1.51409	1.06978
33	2.63		0.46018	0.32565	33	8.63		1.50978	1.06840
34	2.56		0.45888	0.32523	34	8.39		1.50550	1.06701
35	2.49	X	0.45759	0.32481	35	8.16	X	1.50127	1.06564

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Schneider Super-Angulon - SSA 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	2.42	0.45630	0.32439	36	7.95	1.49706	1.06427
37	2.36	0.45503	0.32398	37	7.74	1.49289	1.06291
38	2.3	0.45377	0.32356	38	7.55	1.48876	1.06156
39	2.25	0.45252	0.32315	39	7.37	1.48465	1.06021
40	2.19 x	0.45128	0.32274	40	7.19 x	1.48058	1.05887
41	2.14	0.45005	0.32234	41	7.03	1.47654	1.05753
42	2.09	0.44883	0.32193	42	6.87	1.47254	1.05620
43	2.05	0.44762	0.32153	43	6.72	1.46856	1.05488
44	2	0.44642	0.32113	44	6.57	1.46462	1.05357
45	1.96 x	0.44522	0.32073	45	6.44 x	1.46071	1.05226
46	1.92	0.44404	0.32033	46	6.31	1.45683	1.05096
47	1.88	0.44287	0.31994	47	6.18	1.45297	1.04966
48	1.85	0.44170	0.31954	48	6.06	1.44915	1.04837
49	1.81	0.44055	0.31915	49	5.94	1.44536	1.04709
50	1.78 x	0.43940	0.31876	50	5.83 x	1.44160	1.04581
51	1.75	0.43826	0.31837	51	5.73	1.43786	1.04454
52	1.71	0.43713	0.31799	52	5.63	1.43416	1.04327
53	1.68	0.43601	0.31760	53	5.53	1.43048	1.04201
54	1.66	0.43490	0.31722	54	5.43	1.42683	1.04076
55	1.63 x	0.43379	0.31684	55	5.34 x	1.42321	1.03951
56	1.6	0.43270	0.31646	56	5.25	1.41962	1.03827
57	1.58	0.43161	0.31609	57	5.17	1.41605	1.03703
58	1.55	0.43053	0.31571	58	5.09	1.41251	1.03580
59	1.53	0.42946	0.31534	59	5.01	1.40899	1.03458
60	1.5 x	0.42840	0.31497	60	4.93 x	1.40550	1.03336
61	1.48	0.42734	0.31460	61	4.86	1.40204	1.03215
62	1.46	0.42629	0.31423	62	4.78	1.39861	1.03094
63	1.44	0.42526	0.31386	63	4.71	1.39519	1.02974
64	1.42	0.42422	0.31350	64	4.65	1.39181	1.02854
65	1.4 x	0.42320	0.31314	65	4.58 x	1.38845	1.02735
66	1.38	0.42218	0.31278	66	4.52	1.38511	1.02617
67	1.36	0.42117	0.31242	67	4.46	1.38180	1.02499
68	1.34	0.42017	0.31206	68	4.4	1.37851	1.02382
69	1.32	0.41917	0.31170	69	4.34	1.37524	1.02265
70	1.31 x	0.41819	0.31135	70	4.28 x	1.37200	1.02149
71	1.29	0.41720	0.31100	71	4.23	1.36878	1.02033

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Schneider Super-Angulon - SSA 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	1.27	0.41623	0.31065	72	4.18	1.36558	1.01918
73	1.26	0.41526	0.31030	73	4.12	1.36241	1.01803
74	1.24	0.41430	0.30995	74	4.07	1.35926	1.01689
75	1.23 x	0.41335	0.30960	75	4.03 x	1.35613	1.01575
76	1.21	0.41240	0.30926	76	3.98	1.35303	1.01462
77	1.2	0.41146	0.30891	77	3.93	1.34994	1.01350
78	1.18	0.41053	0.30857	78	3.89	1.34688	1.01238
79	1.17	0.40960	0.30823	79	3.84	1.34384	1.01126
80	1.16 x	0.40868	0.30789	80	3.8 x	1.34082	1.01015
81	1.15	0.40777	0.30756	81	3.76	1.33782	1.00905
82	1.13	0.40686	0.30722	82	3.72	1.33484	1.00795
83	1.12	0.40596	0.30689	83	3.68	1.33188	1.00685
84	1.11	0.40506	0.30656	84	3.64	1.32895	1.00576
85	1.1 x	0.40417	0.30622	85	3.6 x	1.32603	1.00467
86	1.09	0.40329	0.30590	86	3.56	1.32313	1.00359
87	1.07	0.40241	0.30557	87	3.53	1.32025	1.00252
88	1.06	0.40154	0.30524	88	3.49	1.31740	1.00145
89	1.05	0.40068	0.30492	89	3.46	1.31456	1.00038
90	1.04 x	0.39982	0.30459	90	3.42 x	1.31174	0.99932
91	1.03	0.39896	0.30427	91	3.39	1.30894	0.99826
92	1.02	0.39812	0.30395	92	3.36	1.30615	0.99721
93	1.01	0.39727	0.30363	93	3.33	1.30339	0.99616
94	1	0.39644	0.30331	94	3.29	1.30065	0.99512
95	.995 x	0.39561	0.30300	95	3.26 x	1.29792	0.99408
96	.986	0.39478	0.30268	96	3.23	1.29521	0.99305
97	.977	0.39396	0.30237	97	3.21	1.29252	0.99202
98	.968	0.39315	0.30206	98	3.18	1.28985	0.99100
99	.96	0.39234	0.30174	99	3.15	1.28719	0.98998
100	.952 x	0.39153	0.30143	100	3.12 x	1.28455	0.98896
101	.943	0.39073	0.30113	101	3.1	1.28193	0.98795
102	.935	0.38994	0.30082	102	3.07	1.27933	0.98694
103	.928	0.38915	0.30051	103	3.04	1.27674	0.98594
104	.92	0.38837	0.30021	104	3.02	1.27417	0.98494
105	.912 x	0.38759	0.29991	105	2.99 x	1.27162	0.98395
106	.905	0.38682	0.29961	106	2.97	1.26908	0.98296
107	.898	0.38605	0.29931	107	2.94	1.26656	0.98198

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Schneider Super-Angulon - SSA 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	.89	0.38528	0.29901	108	2.92	1.26405	0.98099
109	.883	0.38452	0.29871	109	2.9	1.26156	0.98002
110	.877 x	0.38377	0.29841	110	2.88 x	1.25909	0.97905
111	.87	0.38302	0.29812	111	2.85	1.25663	0.97808
112	.863	0.38228	0.29782	112	2.83	1.25419	0.97712
113	.857	0.38154	0.29753	113	2.81	1.25177	0.97616
114	.85	0.38080	0.29724	114	2.79	1.24935	0.97520
115	.844 x	0.38007	0.29695	115	2.77 x	1.24696	0.97425
116	.838	0.37935	0.29666	116	2.75	1.24458	0.97330
117	.832	0.37863	0.29637	117	2.73	1.24221	0.97236
118	.826	0.37791	0.29609	118	2.71	1.23986	0.97142
119	.82	0.37720	0.29580	119	2.69	1.23752	0.97048
120	.814 x	0.37649	0.29552	120	2.67 x	1.23520	0.96955
121	.808	0.37579	0.29524	121	2.65	1.23289	0.96863
122	.803	0.37509	0.29496	122	2.63	1.23060	0.96770
123	.797	0.37439	0.29468	123	2.62	1.22832	0.96678
124	.792	0.37370	0.29440	124	2.6	1.22605	0.96587
125	.787 x	0.37301	0.29412	125	2.58 x	1.22380	0.96496
126	.781	0.37233	0.29384	126	2.56	1.22156	0.96405
127	.776	0.37165	0.29357	127	2.55	1.21934	0.96314
128	.771	0.37098	0.29329	128	2.53	1.21713	0.96224
129	.766	0.37031	0.29302	129	2.51	1.21493	0.96135
130	.761 x	0.36964	0.29275	130	2.5 x	1.21274	0.96045
131	.756	0.36898	0.29248	131	2.48	1.21057	0.95957
132	.752	0.36832	0.29221	132	2.47	1.20841	0.95868
133	.747	0.36767	0.29194	133	2.45	1.20627	0.95780
134	.742	0.36702	0.29167	134	2.44	1.20413	0.95692
135	.738 x	0.36637	0.29140	135	2.42 x	1.20201	0.95605
136	.733	0.36573	0.29114	136	2.41	1.19991	0.95518
137	.729	0.36509	0.29087	137	2.39	1.19781	0.95431
138	.725	0.36446	0.29061	138	2.38	1.19573	0.95345
139	.72	0.36383	0.29035	139	2.36	1.19366	0.95259
140	.716 x	0.36320	0.29009	140	2.35 x	1.19160	0.95173
141	.712	0.36258	0.28983	141	2.34	1.18955	0.95088
142	.708	0.36196	0.28957	142	2.32	1.18752	0.95003
143	.704	0.36134	0.28931	143	2.31	1.18550	0.94918

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Schneider Super-Angulon - SSA 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	.7	0.36073	0.28905	144	2.3	1.18348	0.94834
145	.696 x	0.36012	0.28880	145	2.28 x	1.18149	0.94750
146	.692	0.35951	0.28854	146	2.27	1.17950	0.94667
147	.688	0.35891	0.28829	147	2.26	1.17752	0.94583
148	.684	0.35831	0.28804	148	2.25	1.17556	0.94501
149	.681	0.35771	0.28779	149	2.23	1.17360	0.94418
150	.677 x	0.35712	0.28754	150	2.22 x	1.17166	0.94336
151	.673	0.35653	0.28729	151	2.21	1.16973	0.94254
152	.67	0.35595	0.28704	152	2.2	1.16781	0.94172
153	.666	0.35537	0.28679	153	2.19	1.16590	0.94091
154	.663	0.35479	0.28654	154	2.17	1.16400	0.94010
155	.659 x	0.35421	0.28630	155	2.16 x	1.16211	0.93930
156	.656	0.35364	0.28605	156	2.15	1.16023	0.93850
157	.652	0.35307	0.28581	157	2.14	1.15837	0.93770
158	.649	0.35250	0.28557	158	2.13	1.15651	0.93690
159	.646	0.35194	0.28533	159	2.12	1.15467	0.93611
160	.643 x	0.35138	0.28509	160	2.11 x	1.15283	0.93532
161	.64	0.35083	0.28485	161	2.1	1.15100	0.93453
162	.636	0.35027	0.28461	162	2.09	1.14919	0.93375
163	.633	0.34972	0.28437	163	2.08	1.14738	0.93297
164	.63	0.34918	0.28413	164	2.07	1.14559	0.93220
165	.627 x	0.34863	0.28390	165	2.06 x	1.14380	0.93142
166	.624	0.34809	0.28366	166	2.05	1.14203	0.93065
167	.621	0.34755	0.28343	167	2.04	1.14026	0.92988
168	.618	0.34702	0.28320	168	2.03	1.13851	0.92912
169	.615	0.34648	0.28296	169	2.02	1.13676	0.92836
170	.613 x	0.34596	0.28273	170	2.01 x	1.13502	0.92760
171	.61	0.34543	0.28250	171	2	1.13330	0.92684
172	.607	0.34490	0.28227	172	1.99	1.13158	0.92609
173	.604	0.34438	0.28204	173	1.98	1.12987	0.92534
174	.601	0.34387	0.28182	174	1.97	1.12817	0.92460
175	.599 x	0.34335	0.28159	175	1.96 x	1.12648	0.92385
176	.596	0.34284	0.28136	176	1.96	1.12480	0.92311
177	.593	0.34233	0.28114	177	1.95	1.12312	0.92237
178	.591	0.34182	0.28092	178	1.94	1.12146	0.92164
179	.588	0.34132	0.28069	179	1.93	1.11981	0.92091

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Schneider Super-Angulon - SSA 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.586 x	0.34082	0.28047	180	1.92 x	1.11816	0.92018
181	.583	0.34032	0.28025	181	1.91	1.11652	0.91945
182	.581	0.33982	0.28003	182	1.91	1.11490	0.91873
183	.578	0.33933	0.27981	183	1.9	1.11328	0.91801
184	.576	0.33884	0.27959	184	1.89	1.11167	0.91729
185	.573 x	0.33835	0.27937	185	1.88 x	1.11006	0.91657
186	.571	0.33786	0.27915	186	1.87	1.10847	0.91586
187	.569	0.33738	0.27894	187	1.87	1.10688	0.91515
188	.566	0.33690	0.27872	188	1.86	1.10531	0.91445
189	.564	0.33642	0.27851	189	1.85	1.10374	0.91374
190	.562 x	0.33594	0.27829	190	1.84 x	1.10218	0.91304
191	.56	0.33547	0.27808	191	1.84	1.10062	0.91234
192	.557	0.33500	0.27787	192	1.83	1.09908	0.91165
193	.555	0.33453	0.27766	193	1.82	1.09754	0.91095
194	.553	0.33406	0.27745	194	1.81	1.09601	0.91026
195	.551 x	0.33360	0.27724	195	1.81 x	1.09449	0.90957
196	.549	0.33314	0.27703	196	1.8	1.09298	0.90889
197	.547	0.33268	0.27682	197	1.79	1.09147	0.90821
198	.544	0.33222	0.27661	198	1.79	1.08997	0.90753
199	.542	0.33177	0.27641	199	1.78	1.08848	0.90685
200	.54 x	0.33132	0.27620	200	1.77 x	1.08700	0.90617
201	.538	0.33087	0.27600	201	1.77	1.08553	0.90550
202	.536	0.33042	0.27579	202	1.76	1.08406	0.90483
203	.534	0.32998	0.27559	203	1.75	1.08260	0.90416
204	.532	0.32953	0.27539	204	1.75	1.08115	0.90350
205	.53 x	0.32909	0.27518	205	1.74 x	1.07970	0.90284
206	.528	0.32865	0.27498	206	1.73	1.07826	0.90218
207	.526	0.32822	0.27478	207	1.73	1.07683	0.90152
208	.525	0.32778	0.27458	208	1.72	1.07541	0.90086
209	.523	0.32735	0.27438	209	1.71	1.07399	0.90021
210	.521 x	0.32692	0.27419	210	1.71 x	1.07258	0.89956
211	.519	0.32650	0.27399	211	1.7	1.07118	0.89891
212	.517	0.32607	0.27379	212	1.7	1.06978	0.89827
213	.515	0.32565	0.27360	213	1.69	1.06840	0.89763
214	.514	0.32523	0.27340	214	1.69	1.06701	0.89699
215	.512 x	0.32481	0.27321	215	1.68 x	1.06564	0.89635

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Schneider Super-Angulon - SSA 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.51	0.32439	0.27301	216	1.67	1.06427	0.89571
217	.508	0.32398	0.27282	217	1.67	1.06291	0.89508
218	.507	0.32356	0.27263	218	1.66	1.06156	0.89445
219	.505	0.32315	0.27244	219	1.66	1.06021	0.89382
220	.503 x	0.32274	0.27225	220	1.65 x	1.05887	0.89320
221	.502	0.32234	0.27206	221	1.65	1.05753	0.89257
222	.5	0.32193	0.27187	222	1.64	1.05620	0.89195
223	.498	0.32153	0.27168	223	1.63	1.05488	0.89133
224	.497	0.32113	0.27149	224	1.63	1.05357	0.89072
225	.495 x	0.32073	0.27130	225	1.62 x	1.05226	0.89010
226	.493	0.32033	0.27112	226	1.62	1.05096	0.88949
227	.492	0.31994	0.27093	227	1.61	1.04966	0.88888
228	.49	0.31954	0.27074	228	1.61	1.04837	0.88827
229	.489	0.31915	0.27056	229	1.6	1.04709	0.88767
230	.487 x	0.31876	0.27038	230	1.6 x	1.04581	0.88706
231	.486	0.31837	0.27019	231	1.59	1.04454	0.88646
232	.484	0.31799	0.27001	232	1.59	1.04327	0.88586
233	.483	0.31760	0.26983	233	1.58	1.04201	0.88527
234	.481	0.31722	0.26965	234	1.58	1.04076	0.88467
235	.48 x	0.31684	0.26947	235	1.57 x	1.03951	0.88408
236	.478	0.31646	0.26929	236	1.57	1.03827	0.88349
237	.477	0.31609	0.26911	237	1.56	1.03703	0.88290
238	.475	0.31571	0.26893	238	1.56	1.03580	0.88232
239	.474	0.31534	0.26875	239	1.55	1.03458	0.88173
240	.472 x	0.31497	0.26857	240	1.55 x	1.03336	0.88115
241	.471	0.31460	0.26840	241	1.55	1.03215	0.88057
242	.47	0.31423	0.26822	242	1.54	1.03094	0.87999
243	.468	0.31386	0.26805	243	1.54	1.02974	0.87942
244	.467	0.31350	0.26787	244	1.53	1.02854	0.87884
245	.465 x	0.31314	0.26770	245	1.53 x	1.02735	0.87827
246	.464	0.31278	0.26752	246	1.52	1.02617	0.87770
247	.463	0.31242	0.26735	247	1.52	1.02499	0.87714
248	.461	0.31206	0.26718	248	1.51	1.02382	0.87657
249	.46	0.31170	0.26701	249	1.51	1.02265	0.87601
250	.459 x	0.31135	0.26684	250	1.51 x	1.02149	0.87545
251	.458	0.31100	0.26667	251	1.5	1.02033	0.87489

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Schneider Super-Angulon - SSA 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.456	0.31065	0.26650	252	1.5	1.01918	0.87433
253	.455	0.31030	0.26633	253	1.49	1.01803	0.87378
254	.454	0.30995	0.26616	254	1.49	1.01689	0.87323
255	.453 x	0.30960	0.26599	255	1.48 x	1.01575	0.87267
256	.451	0.30926	0.26582	256	1.48	1.01462	0.87213
257	.45	0.30891	0.26566	257	1.48	1.01350	0.87158
258	.449	0.30857	0.26549	258	1.47	1.01238	0.87103
259	.448	0.30823	0.26533	259	1.47	1.01126	0.87049
260	.446 x	0.30789	0.26516	260	1.46 x	1.01015	0.86995
261	.445	0.30756	0.26500	261	1.46	1.00905	0.86941
262	.444	0.30722	0.26483	262	1.46	1.00795	0.86887
263	.443	0.30689	0.26467	263	1.45	1.00685	0.86834
264	.442	0.30656	0.26451	264	1.45	1.00576	0.86780
265	.441 x	0.30622	0.26434	265	1.45 x	1.00467	0.86727
266	.439	0.30590	0.26418	266	1.44	1.00359	0.86674
267	.438	0.30557	0.26402	267	1.44	1.00252	0.86621
268	.437	0.30524	0.26386	268	1.43	1.00145	0.86569
269	.436	0.30492	0.26370	269	1.43	1.00038	0.86516
270	.435 x	0.30459	0.26354	270	1.43 x	0.99932	0.86464

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Schneider Apo-Digitar - SAD 47

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.49872	0.33244	0	∞	XX	1.63623	1.09067
1	81.5	XX	0.49701	0.33195	1	267	XX	1.63063	1.08906
2	40.8	XX	0.49532	0.33146	2	134	XX	1.62507	1.08746
3	27.2	XX	0.49364	0.33097	3	89.4	XX	1.61957	1.08587
4	20.5	XX	0.49198	0.33049	4	67.1	XX	1.61412	1.08429
5	16.4	X	0.49034	0.33001	5	53.8	X	1.60872	1.08272
6	13.7		0.48871	0.32953	6	44.9		1.60337	1.08115
7	11.7		0.48709	0.32906	7	38.5		1.59806	1.07959
8	10.3		0.48549	0.32859	8	33.8		1.59281	1.07804
9	9.16		0.48390	0.32812	9	30.1		1.58760	1.07650
10	8.26	X	0.48233	0.32765	10	27.1	X	1.58244	1.07497
11	7.52		0.48077	0.32719	11	24.7		1.57732	1.07344
12	6.9		0.47922	0.32672	12	22.6		1.57226	1.07193
13	6.38		0.47769	0.32626	13	20.9		1.56723	1.07042
14	5.93		0.47617	0.32581	14	19.5		1.56225	1.06892
15	5.54	X	0.47467	0.32535	15	18.2	X	1.55732	1.06742
16	5.2		0.47318	0.32490	16	17.1		1.55243	1.06594
17	4.9		0.47170	0.32445	17	16.1		1.54758	1.06446
18	4.64		0.47024	0.32400	18	15.2		1.54277	1.06299
19	4.4		0.46878	0.32355	19	14.4		1.53801	1.06153
20	4.19	X	0.46734	0.32311	20	13.7	X	1.53328	1.06007
21	3.99		0.46592	0.32267	21	13.1		1.52860	1.05862
22	3.82		0.46450	0.32223	22	12.5		1.52396	1.05718
23	3.66		0.46310	0.32179	23	12		1.51935	1.05575
24	3.51		0.46171	0.32136	24	11.5		1.51479	1.05432
25	3.37	X	0.46033	0.32092	25	11.1	X	1.51026	1.05290
26	3.25		0.45896	0.32049	26	10.7		1.50577	1.05149
27	3.13		0.45760	0.32007	27	10.3		1.50132	1.05008
28	3.02		0.45626	0.31964	28	9.92		1.49691	1.04869
29	2.92		0.45492	0.31922	29	9.59		1.49253	1.04730
30	2.83	X	0.45360	0.31879	30	9.28	X	1.48819	1.04591
31	2.74		0.45229	0.31837	31	9		1.48389	1.04454
32	2.66		0.45099	0.31796	32	8.73		1.47962	1.04316
33	2.58		0.44970	0.31754	33	8.48		1.47539	1.04180
34	2.51		0.44842	0.31713	34	8.24		1.47119	1.04045
35	2.44	X	0.44715	0.31672	35	8.01	X	1.46703	1.03910

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Schneider Apo-Digitar - SAD 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	2.38	0.44589	0.31631	36	7.8	1.46289	1.03775
37	2.32	0.44464	0.31590	37	7.6	1.45880	1.03642
38	2.26	0.44340	0.31549	38	7.41	1.45473	1.03509
39	2.2	0.44217	0.31509	39	7.23	1.45070	1.03376
40	2.15 x	0.44095	0.31469	40	7.06 x	1.44670	1.03245
41	2.1	0.43975	0.31429	41	6.9	1.44273	1.03114
42	2.06	0.43855	0.31389	42	6.74	1.43880	1.02983
43	2.01	0.43736	0.31350	43	6.59	1.43489	1.02853
44	1.97	0.43617	0.31310	44	6.45	1.43102	1.02724
45	1.93 x	0.43500	0.31271	45	6.32 x	1.42717	1.02596
46	1.89	0.43384	0.31232	46	6.19	1.42336	1.02468
47	1.85	0.43269	0.31193	47	6.07	1.41957	1.02341
48	1.81	0.43154	0.31155	48	5.95	1.41582	1.02214
49	1.78	0.43041	0.31116	49	5.83	1.41209	1.02088
50	1.75 x	0.42928	0.31078	50	5.73 x	1.40840	1.01962
51	1.71	0.42816	0.31040	51	5.62	1.40473	1.01838
52	1.68	0.42705	0.31002	52	5.52	1.40109	1.01713
53	1.65	0.42595	0.30965	53	5.42	1.39747	1.01590
54	1.62	0.42486	0.30927	54	5.33	1.39389	1.01467
55	1.6 x	0.42377	0.30890	55	5.24 x	1.39033	1.01344
56	1.57	0.42270	0.30853	56	5.15	1.38680	1.01222
57	1.55	0.42163	0.30816	57	5.07	1.38329	1.01101
58	1.52	0.42057	0.30779	58	4.99	1.37981	1.00980
59	1.5	0.41951	0.30742	59	4.91	1.37636	1.00860
60	1.47 x	0.41847	0.30706	60	4.84 x	1.37293	1.00740
61	1.45	0.41743	0.30669	61	4.76	1.36953	1.00621
62	1.43	0.41640	0.30633	62	4.69	1.36615	1.00503
63	1.41	0.41538	0.30597	63	4.62	1.36280	1.00385
64	1.39	0.41437	0.30562	64	4.56	1.35948	1.00268
65	1.37 x	0.41336	0.30526	65	4.49 x	1.35617	1.00151
66	1.35	0.41236	0.30491	66	4.43	1.35289	1.00035
67	1.33	0.41137	0.30455	67	4.37	1.34964	0.99919
68	1.31	0.41038	0.30420	68	4.31	1.34641	0.99804
69	1.3	0.40941	0.30385	69	4.26	1.34320	0.99689
70	1.28 x	0.40844	0.30350	70	4.2 x	1.34001	0.99575
71	1.26	0.40747	0.30316	71	4.15	1.33685	0.99461

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Schneider Apo-Digitar - SAD 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	1.25	0.40652	0.30281	72	4.1	1.33371	0.99348
73	1.23	0.40557	0.30247	73	4.05	1.33059	0.99236
74	1.22	0.40462	0.30213	74	4	1.32750	0.99124
75	1.2 x	0.40368	0.30179	75	3.95 x	1.32443	0.99012
76	1.19	0.40275	0.30145	76	3.9	1.32137	0.98901
77	1.18	0.40183	0.30111	77	3.86	1.31834	0.98791
78	1.16	0.40091	0.30078	78	3.81	1.31534	0.98681
79	1.15	0.40000	0.30044	79	3.77	1.31235	0.98571
80	1.14 x	0.39910	0.30011	80	3.73 x	1.30938	0.98462
81	1.12	0.39820	0.29978	81	3.68	1.30643	0.98354
82	1.11	0.39731	0.29945	82	3.64	1.30351	0.98246
83	1.1	0.39642	0.29912	83	3.61	1.30060	0.98138
84	1.09	0.39554	0.29880	84	3.57	1.29772	0.98031
85	1.08 x	0.39467	0.29847	85	3.53 x	1.29485	0.97924
86	1.06	0.39380	0.29815	86	3.49	1.29200	0.97818
87	1.05	0.39294	0.29783	87	3.46	1.28918	0.97713
88	1.04	0.39208	0.29751	88	3.42	1.28637	0.97608
89	1.03	0.39123	0.29719	89	3.39	1.28358	0.97503
90	1.02 x	0.39039	0.29687	90	3.36 x	1.28081	0.97399
91	1.01	0.38955	0.29656	91	3.32	1.27806	0.97295
92	1	0.38872	0.29624	92	3.29	1.27532	0.97192
93	.994	0.38789	0.29593	93	3.26	1.27261	0.97089
94	.984	0.38707	0.29562	94	3.23	1.26991	0.96987
95	.975 x	0.38625	0.29531	95	3.2 x	1.26723	0.96885
96	.966	0.38544	0.29500	96	3.17	1.26457	0.96783
97	.958	0.38464	0.29469	97	3.14	1.26193	0.96682
98	.949	0.38384	0.29438	98	3.11	1.25930	0.96582
99	.941	0.38304	0.29408	99	3.09	1.25669	0.96482
100	.933 x	0.38225	0.29377	100	3.06 x	1.25410	0.96382
101	.925	0.38147	0.29347	101	3.03	1.25153	0.96283
102	.917	0.38069	0.29317	102	3.01	1.24897	0.96184
103	.909	0.37991	0.29287	103	2.98	1.24643	0.96086
104	.901	0.37914	0.29257	104	2.96	1.24390	0.95988
105	.894 x	0.37838	0.29227	105	2.93 x	1.24139	0.95890
106	.887	0.37762	0.29198	106	2.91	1.23890	0.95793
107	.88	0.37686	0.29168	107	2.89	1.23643	0.95697

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Schneider Apo-Digitar - SAD 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	.873	0.37611	0.29139	108	2.86	1.23396	0.95600
109	.866	0.37537	0.29110	109	2.84	1.23152	0.95505
110	.859 x	0.37463	0.29081	110	2.82 x	1.22909	0.95409
111	.852	0.37389	0.29052	111	2.8	1.22668	0.95314
112	.846	0.37316	0.29023	112	2.77	1.22428	0.95220
113	.839	0.37243	0.28994	113	2.75	1.22189	0.95126
114	.833	0.37171	0.28966	114	2.73	1.21953	0.95032
115	.827 x	0.37099	0.28937	115	2.71 x	1.21717	0.94938
116	.821	0.37028	0.28909	116	2.69	1.21483	0.94845
117	.815	0.36957	0.28881	117	2.67	1.21251	0.94753
118	.809	0.36887	0.28853	118	2.65	1.21020	0.94661
119	.803	0.36817	0.28825	119	2.64	1.20790	0.94569
120	.798 x	0.36747	0.28797	120	2.62 x	1.20562	0.94478
121	.792	0.36678	0.28769	121	2.6	1.20335	0.94387
122	.786	0.36610	0.28741	122	2.58	1.20110	0.94296
123	.781	0.36541	0.28714	123	2.56	1.19886	0.94206
124	.776	0.36473	0.28687	124	2.55	1.19664	0.94116
125	.771 x	0.36406	0.28659	125	2.53 x	1.19442	0.94026
126	.765	0.36339	0.28632	126	2.51	1.19223	0.93937
127	.76	0.36272	0.28605	127	2.49	1.19004	0.93849
128	.755	0.36206	0.28578	128	2.48	1.18787	0.93760
129	.75	0.36140	0.28551	129	2.46	1.18571	0.93672
130	.746 x	0.36075	0.28525	130	2.45 x	1.18356	0.93585
131	.741	0.36010	0.28498	131	2.43	1.18143	0.93498
132	.736	0.35945	0.28472	132	2.42	1.17931	0.93411
133	.732	0.35881	0.28445	133	2.4	1.17720	0.93324
134	.727	0.35817	0.28419	134	2.39	1.17511	0.93238
135	.723 x	0.35754	0.28393	135	2.37 x	1.17302	0.93152
136	.718	0.35691	0.28367	136	2.36	1.17095	0.93067
137	.714	0.35628	0.28341	137	2.34	1.16890	0.92982
138	.71	0.35566	0.28315	138	2.33	1.16685	0.92897
139	.705	0.35504	0.28289	139	2.31	1.16482	0.92813
140	.701 x	0.35442	0.28264	140	2.3 x	1.16279	0.92729
141	.697	0.35381	0.28238	141	2.29	1.16078	0.92645
142	.693	0.35320	0.28213	142	2.27	1.15879	0.92562
143	.689	0.35259	0.28188	143	2.26	1.15680	0.92479

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Schneider Apo-Digitar - SAD 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	.685	0.35199	0.28162	144	2.25	1.15482	0.92396
145	.681 x	0.35139	0.28137	145	2.24 x	1.15286	0.92314
146	.677	0.35080	0.28112	146	2.22	1.15091	0.92232
147	.674	0.35020	0.28087	147	2.21	1.14897	0.92150
148	.67	0.34962	0.28063	148	2.2	1.14704	0.92069
149	.666	0.34903	0.28038	149	2.19	1.14512	0.91988
150	.663 x	0.34845	0.28013	150	2.17 x	1.14321	0.91907
151	.659	0.34787	0.27989	151	2.16	1.14131	0.91827
152	.656	0.34730	0.27965	152	2.15	1.13943	0.91747
153	.652	0.34673	0.27940	153	2.14	1.13755	0.91667
154	.649	0.34616	0.27916	154	2.13	1.13569	0.91588
155	.645 x	0.34559	0.27892	155	2.12 x	1.13383	0.91509
156	.642	0.34503	0.27868	156	2.11	1.13199	0.91430
157	.639	0.34447	0.27844	157	2.1	1.13015	0.91352
158	.635	0.34392	0.27820	158	2.08	1.12833	0.91274
159	.632	0.34336	0.27797	159	2.07	1.12652	0.91196
160	.629 x	0.34281	0.27773	160	2.06 x	1.12472	0.91119
161	.626	0.34227	0.27750	161	2.05	1.12292	0.91042
162	.623	0.34172	0.27726	162	2.04	1.12114	0.90965
163	.62	0.34118	0.27703	163	2.03	1.11937	0.90888
164	.617	0.34065	0.27680	164	2.02	1.11760	0.90812
165	.614 x	0.34011	0.27656	165	2.01 x	1.11585	0.90736
166	.611	0.33958	0.27633	166	2	1.11411	0.90661
167	.608	0.33905	0.27610	167	1.99	1.11237	0.90585
168	.605	0.33853	0.27588	168	1.99	1.11065	0.90510
169	.602	0.33800	0.27565	169	1.98	1.10893	0.90436
170	.599 x	0.33748	0.27542	170	1.97 x	1.10723	0.90361
171	.597	0.33697	0.27520	171	1.96	1.10553	0.90287
172	.594	0.33645	0.27497	172	1.95	1.10384	0.90214
173	.591	0.33594	0.27475	173	1.94	1.10217	0.90140
174	.589	0.33543	0.27452	174	1.93	1.10050	0.90067
175	.586 x	0.33493	0.27430	175	1.92 x	1.09884	0.89994
176	.583	0.33442	0.27408	176	1.91	1.09718	0.89921
177	.581	0.33392	0.27386	177	1.91	1.09554	0.89849
178	.578	0.33342	0.27364	178	1.9	1.09391	0.89777
179	.576	0.33293	0.27342	179	1.89	1.09228	0.89705

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Schneider Apo-Digitar - SAD 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.573 x	0.33244	0.27320	180	1.88 x	1.09067	0.89633
181	.571	0.33195	0.27299	181	1.87	1.08906	0.89562
182	.568	0.33146	0.27277	182	1.86	1.08746	0.89491
183	.566	0.33097	0.27255	183	1.86	1.08587	0.89421
184	.563	0.33049	0.27234	184	1.85	1.08429	0.89350
185	.561 x	0.33001	0.27213	185	1.84 x	1.08272	0.89280
186	.559	0.32953	0.27191	186	1.83	1.08115	0.89210
187	.556	0.32906	0.27170	187	1.83	1.07959	0.89141
188	.554	0.32859	0.27149	188	1.82	1.07804	0.89071
189	.552	0.32812	0.27128	189	1.81	1.07650	0.89002
190	.55 x	0.32765	0.27107	190	1.8 x	1.07497	0.88933
191	.547	0.32719	0.27086	191	1.8	1.07344	0.88865
192	.545	0.32672	0.27065	192	1.79	1.07193	0.88797
193	.543	0.32626	0.27044	193	1.78	1.07042	0.88729
194	.541	0.32581	0.27024	194	1.77	1.06892	0.88661
195	.539 x	0.32535	0.27003	195	1.77 x	1.06742	0.88593
196	.537	0.32490	0.26983	196	1.76	1.06594	0.88526
197	.535	0.32445	0.26962	197	1.75	1.06446	0.88459
198	.532	0.32400	0.26942	198	1.75	1.06299	0.88393
199	.53	0.32355	0.26922	199	1.74	1.06153	0.88326
200	.528 x	0.32311	0.26902	200	1.73 x	1.06007	0.88260
201	.526	0.32267	0.26882	201	1.73	1.05862	0.88194
202	.524	0.32223	0.26861	202	1.72	1.05718	0.88128
203	.522	0.32179	0.26842	203	1.71	1.05575	0.88063
204	.521	0.32136	0.26822	204	1.71	1.05432	0.87998
205	.519 x	0.32092	0.26802	205	1.7 x	1.05290	0.87933
206	.517	0.32049	0.26782	206	1.7	1.05149	0.87868
207	.515	0.32007	0.26763	207	1.69	1.05008	0.87804
208	.513	0.31964	0.26743	208	1.68	1.04869	0.87739
209	.511	0.31922	0.26723	209	1.68	1.04730	0.87675
210	.509 x	0.31879	0.26704	210	1.67 x	1.04591	0.87612
211	.508	0.31837	0.26685	211	1.67	1.04454	0.87548
212	.506	0.31796	0.26665	212	1.66	1.04316	0.87485
213	.504	0.31754	0.26646	213	1.65	1.04180	0.87422
214	.502	0.31713	0.26627	214	1.65	1.04045	0.87359
215	.5 x	0.31672	0.26608	215	1.64 x	1.03910	0.87297

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Schneider Apo-Digitar - SAD 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.499	0.31631	0.26589	216	1.64	1.03775	0.87234
217	.497	0.31590	0.26570	217	1.63	1.03642	0.87172
218	.495	0.31549	0.26551	218	1.63	1.03509	0.87110
219	.494	0.31509	0.26532	219	1.62	1.03376	0.87049
220	.492 x	0.31469	0.26514	220	1.61 x	1.03245	0.86987
221	.49	0.31429	0.26495	221	1.61	1.03114	0.86926
222	.489	0.31389	0.26477	222	1.6	1.02983	0.86865
223	.487	0.31350	0.26458	223	1.6	1.02853	0.86805
224	.485	0.31310	0.26440	224	1.59	1.02724	0.86744
225	.484 x	0.31271	0.26421	225	1.59 x	1.02596	0.86684
226	.482	0.31232	0.26403	226	1.58	1.02468	0.86624
227	.481	0.31193	0.26385	227	1.58	1.02341	0.86564
228	.479	0.31155	0.26367	228	1.57	1.02214	0.86505
229	.478	0.31116	0.26348	229	1.57	1.02088	0.86445
230	.476 x	0.31078	0.26330	230	1.56 x	1.01962	0.86386
231	.475	0.31040	0.26312	231	1.56	1.01838	0.86327
232	.473	0.31002	0.26295	232	1.55	1.01713	0.86268
233	.472	0.30965	0.26277	233	1.55	1.01590	0.86210
234	.47	0.30927	0.26259	234	1.54	1.01467	0.86152
235	.469 x	0.30890	0.26241	235	1.54 x	1.01344	0.86094
236	.467	0.30853	0.26224	236	1.53	1.01222	0.86036
237	.466	0.30816	0.26206	237	1.53	1.01101	0.85978
238	.465	0.30779	0.26189	238	1.52	1.00980	0.85921
239	.463	0.30742	0.26171	239	1.52	1.00860	0.85863
240	.462 x	0.30706	0.26154	240	1.51 x	1.00740	0.85806
241	.46	0.30669	0.26136	241	1.51	1.00621	0.85750
242	.459	0.30633	0.26119	242	1.51	1.00503	0.85693
243	.458	0.30597	0.26102	243	1.5	1.00385	0.85637
244	.456	0.30562	0.26085	244	1.5	1.00268	0.85580
245	.455 x	0.30526	0.26068	245	1.49 x	1.00151	0.85524
246	.454	0.30491	0.26051	246	1.49	1.00035	0.85469
247	.452	0.30455	0.26034	247	1.48	0.99919	0.85413
248	.451	0.30420	0.26017	248	1.48	0.99804	0.85358
249	.45	0.30385	0.26000	249	1.48	0.99689	0.85303
250	.448 x	0.30350	0.25983	250	1.47 x	0.99575	0.85248
251	.447	0.30316	0.25967	251	1.47	0.99461	0.85193

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Schneider Apo-Digitar - SAD 47

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.446	0.30281	0.25950	252	1.46	0.99348	0.85138
253	.445	0.30247	0.25934	253	1.46	0.99236	0.85084
254	.443	0.30213	0.25917	254	1.45	0.99124	0.85030
255	.442 x	0.30179	0.25901	255	1.45 x	0.99012	0.84976
256	.441	0.30145	0.25884	256	1.45	0.98901	0.84922
257	.44	0.30111	0.25868	257	1.44	0.98791	0.84868
258	.439	0.30078	0.25852	258	1.44	0.98681	0.84815
259	.437	0.30044	0.25835	259	1.43	0.98571	0.84762
260	.436 x	0.30011	0.25819	260	1.43 x	0.98462	0.84709
261	.435	0.29978	0.25803	261	1.43	0.98354	0.84656
262	.434	0.29945	0.25787	262	1.42	0.98246	0.84603
263	.433	0.29912	0.25771	263	1.42	0.98138	0.84551
264	.432	0.29880	0.25755	264	1.42	0.98031	0.84498
265	.43 x	0.29847	0.25739	265	1.41 x	0.97924	0.84446
266	.429	0.29815	0.25723	266	1.41	0.97818	0.84394
267	.428	0.29783	0.25708	267	1.4	0.97713	0.84343
268	.427	0.29751	0.25692	268	1.4	0.97608	0.84291
269	.426	0.29719	0.25676	269	1.4	0.97503	0.84240
270	.425 x	0.29687	0.25661	270	1.39 x	0.97399	0.84188

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Schneider ALPA Apo Helvetar - AAH 48

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.49872	0.33244	0	∞	XX	1.63623	1.09067
1	81.5	XX	0.49701	0.33195	1	267	XX	1.63063	1.08906
2	40.8	XX	0.49532	0.33146	2	134	XX	1.62507	1.08746
3	27.2	XX	0.49364	0.33097	3	89.4	XX	1.61957	1.08587
4	20.5	XX	0.49198	0.33049	4	67.1	XX	1.61412	1.08429
5	16.4	X	0.49034	0.33001	5	53.8	X	1.60872	1.08272
6	13.7		0.48871	0.32953	6	44.9		1.60337	1.08115
7	11.7		0.48709	0.32906	7	38.5		1.59806	1.07959
8	10.3		0.48549	0.32859	8	33.8		1.59281	1.07804
9	9.16		0.48390	0.32812	9	30.1		1.58760	1.07650
10	8.26	X	0.48233	0.32765	10	27.1	X	1.58244	1.07497
11	7.52		0.48077	0.32719	11	24.7		1.57732	1.07344
12	6.9		0.47922	0.32672	12	22.6		1.57226	1.07193
13	6.38		0.47769	0.32626	13	20.9		1.56723	1.07042
14	5.93		0.47617	0.32581	14	19.5		1.56225	1.06892
15	5.54	X	0.47467	0.32535	15	18.2	X	1.55732	1.06742
16	5.2		0.47318	0.32490	16	17.1		1.55243	1.06594
17	4.9		0.47170	0.32445	17	16.1		1.54758	1.06446
18	4.64		0.47024	0.32400	18	15.2		1.54277	1.06299
19	4.4		0.46878	0.32355	19	14.4		1.53801	1.06153
20	4.19	X	0.46734	0.32311	20	13.7	X	1.53328	1.06007
21	3.99		0.46592	0.32267	21	13.1		1.52860	1.05862
22	3.82		0.46450	0.32223	22	12.5		1.52396	1.05718
23	3.66		0.46310	0.32179	23	12		1.51935	1.05575
24	3.51		0.46171	0.32136	24	11.5		1.51479	1.05432
25	3.37	X	0.46033	0.32092	25	11.1	X	1.51026	1.05290
26	3.25		0.45896	0.32049	26	10.7		1.50577	1.05149
27	3.13		0.45760	0.32007	27	10.3		1.50132	1.05008
28	3.02		0.45626	0.31964	28	9.92		1.49691	1.04869
29	2.92		0.45492	0.31922	29	9.59		1.49253	1.04730
30	2.83	X	0.45360	0.31879	30	9.28	X	1.48819	1.04591
31	2.74		0.45229	0.31837	31	9		1.48389	1.04454
32	2.66		0.45099	0.31796	32	8.73		1.47962	1.04316
33	2.58		0.44970	0.31754	33	8.48		1.47539	1.04180
34	2.51		0.44842	0.31713	34	8.24		1.47119	1.04045
35	2.44	X	0.44715	0.31672	35	8.01	X	1.46703	1.03910

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Schneider ALPA Apo Helvetar - AAH 48

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	2.38	0.44589	0.31631	36	7.8	1.46289	1.03775
37	2.32	0.44464	0.31590	37	7.6	1.45880	1.03642
38	2.26	0.44340	0.31549	38	7.41	1.45473	1.03509
39	2.2	0.44217	0.31509	39	7.23	1.45070	1.03376
40	2.15 x	0.44095	0.31469	40	7.06 x	1.44670	1.03245
41	2.1	0.43975	0.31429	41	6.9	1.44273	1.03114
42	2.06	0.43855	0.31389	42	6.74	1.43880	1.02983
43	2.01	0.43736	0.31350	43	6.59	1.43489	1.02853
44	1.97	0.43617	0.31310	44	6.45	1.43102	1.02724
45	1.93 x	0.43500	0.31271	45	6.32 x	1.42717	1.02596
46	1.89	0.43384	0.31232	46	6.19	1.42336	1.02468
47	1.85	0.43269	0.31193	47	6.07	1.41957	1.02341
48	1.81	0.43154	0.31155	48	5.95	1.41582	1.02214
49	1.78	0.43041	0.31116	49	5.83	1.41209	1.02088
50	1.75 x	0.42928	0.31078	50	5.73 x	1.40840	1.01962
51	1.71	0.42816	0.31040	51	5.62	1.40473	1.01838
52	1.68	0.42705	0.31002	52	5.52	1.40109	1.01713
53	1.65	0.42595	0.30965	53	5.42	1.39747	1.01590
54	1.62	0.42486	0.30927	54	5.33	1.39389	1.01467
55	1.6 x	0.42377	0.30890	55	5.24 x	1.39033	1.01344
56	1.57	0.42270	0.30853	56	5.15	1.38680	1.01222
57	1.55	0.42163	0.30816	57	5.07	1.38329	1.01101
58	1.52	0.42057	0.30779	58	4.99	1.37981	1.00980
59	1.5	0.41951	0.30742	59	4.91	1.37636	1.00860
60	1.47 x	0.41847	0.30706	60	4.84 x	1.37293	1.00740
61	1.45	0.41743	0.30669	61	4.76	1.36953	1.00621
62	1.43	0.41640	0.30633	62	4.69	1.36615	1.00503
63	1.41	0.41538	0.30597	63	4.62	1.36280	1.00385
64	1.39	0.41437	0.30562	64	4.56	1.35948	1.00268
65	1.37 x	0.41336	0.30526	65	4.49 x	1.35617	1.00151
66	1.35	0.41236	0.30491	66	4.43	1.35289	1.00035
67	1.33	0.41137	0.30455	67	4.37	1.34964	0.99919
68	1.31	0.41038	0.30420	68	4.31	1.34641	0.99804
69	1.3	0.40941	0.30385	69	4.26	1.34320	0.99689
70	1.28 x	0.40844	0.30350	70	4.2 x	1.34001	0.99575
71	1.26	0.40747	0.30316	71	4.15	1.33685	0.99461

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Schneider ALPA Apo Helvetar - AAH 48

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	1.25	0.40652	0.30281	72	4.1	1.33371	0.99348
73	1.23	0.40557	0.30247	73	4.05	1.33059	0.99236
74	1.22	0.40462	0.30213	74	4	1.32750	0.99124
75	1.2 x	0.40368	0.30179	75	3.95 x	1.32443	0.99012
76	1.19	0.40275	0.30145	76	3.9	1.32137	0.98901
77	1.18	0.40183	0.30111	77	3.86	1.31834	0.98791
78	1.16	0.40091	0.30078	78	3.81	1.31534	0.98681
79	1.15	0.40000	0.30044	79	3.77	1.31235	0.98571
80	1.14 x	0.39910	0.30011	80	3.73 x	1.30938	0.98462
81	1.12	0.39820	0.29978	81	3.68	1.30643	0.98354
82	1.11	0.39731	0.29945	82	3.64	1.30351	0.98246
83	1.1	0.39642	0.29912	83	3.61	1.30060	0.98138
84	1.09	0.39554	0.29880	84	3.57	1.29772	0.98031
85	1.08 x	0.39467	0.29847	85	3.53 x	1.29485	0.97924
86	1.06	0.39380	0.29815	86	3.49	1.29200	0.97818
87	1.05	0.39294	0.29783	87	3.46	1.28918	0.97713
88	1.04	0.39208	0.29751	88	3.42	1.28637	0.97608
89	1.03	0.39123	0.29719	89	3.39	1.28358	0.97503
90	1.02 x	0.39039	0.29687	90	3.36 x	1.28081	0.97399
91	1.01	0.38955	0.29656	91	3.32	1.27806	0.97295
92	1	0.38872	0.29624	92	3.29	1.27532	0.97192
93	.994	0.38789	0.29593	93	3.26	1.27261	0.97089
94	.984	0.38707	0.29562	94	3.23	1.26991	0.96987
95	.975 x	0.38625	0.29531	95	3.2 x	1.26723	0.96885
96	.966	0.38544	0.29500	96	3.17	1.26457	0.96783
97	.958	0.38464	0.29469	97	3.14	1.26193	0.96682
98	.949	0.38384	0.29438	98	3.11	1.25930	0.96582
99	.941	0.38304	0.29408	99	3.09	1.25669	0.96482
100	.933 x	0.38225	0.29377	100	3.06 x	1.25410	0.96382
101	.925	0.38147	0.29347	101	3.03	1.25153	0.96283
102	.917	0.38069	0.29317	102	3.01	1.24897	0.96184
103	.909	0.37991	0.29287	103	2.98	1.24643	0.96086
104	.901	0.37914	0.29257	104	2.96	1.24390	0.95988
105	.894 x	0.37838	0.29227	105	2.93 x	1.24139	0.95890
106	.887	0.37762	0.29198	106	2.91	1.23890	0.95793
107	.88	0.37686	0.29168	107	2.89	1.23643	0.95697

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Schneider ALPA Apo Helvetar - AAH 48

 Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	.873	0.37611	0.29139	108	2.86	1.23396	0.95600
109	.866	0.37537	0.29110	109	2.84	1.23152	0.95505
110	.859 x	0.37463	0.29081	110	2.82 x	1.22909	0.95409
111	.852	0.37389	0.29052	111	2.8	1.22668	0.95314
112	.846	0.37316	0.29023	112	2.77	1.22428	0.95220
113	.839	0.37243	0.28994	113	2.75	1.22189	0.95126
114	.833	0.37171	0.28966	114	2.73	1.21953	0.95032
115	.827 x	0.37099	0.28937	115	2.71 x	1.21717	0.94938
116	.821	0.37028	0.28909	116	2.69	1.21483	0.94845
117	.815	0.36957	0.28881	117	2.67	1.21251	0.94753
118	.809	0.36887	0.28853	118	2.65	1.21020	0.94661
119	.803	0.36817	0.28825	119	2.64	1.20790	0.94569
120	.798 x	0.36747	0.28797	120	2.62 x	1.20562	0.94478
121	.792	0.36678	0.28769	121	2.6	1.20335	0.94387
122	.786	0.36610	0.28741	122	2.58	1.20110	0.94296
123	.781	0.36541	0.28714	123	2.56	1.19886	0.94206
124	.776	0.36473	0.28687	124	2.55	1.19664	0.94116
125	.771 x	0.36406	0.28659	125	2.53 x	1.19442	0.94026
126	.765	0.36339	0.28632	126	2.51	1.19223	0.93937
127	.76	0.36272	0.28605	127	2.49	1.19004	0.93849
128	.755	0.36206	0.28578	128	2.48	1.18787	0.93760
129	.75	0.36140	0.28551	129	2.46	1.18571	0.93672
130	.746 x	0.36075	0.28525	130	2.45 x	1.18356	0.93585
131	.741	0.36010	0.28498	131	2.43	1.18143	0.93498
132	.736	0.35945	0.28472	132	2.42	1.17931	0.93411
133	.732	0.35881	0.28445	133	2.4	1.17720	0.93324
134	.727	0.35817	0.28419	134	2.39	1.17511	0.93238
135	.723 x	0.35754	0.28393	135	2.37 x	1.17302	0.93152
136	.718	0.35691	0.28367	136	2.36	1.17095	0.93067
137	.714	0.35628	0.28341	137	2.34	1.16890	0.92982
138	.71	0.35566	0.28315	138	2.33	1.16685	0.92897
139	.705	0.35504	0.28289	139	2.31	1.16482	0.92813
140	.701 x	0.35442	0.28264	140	2.3 x	1.16279	0.92729
141	.697	0.35381	0.28238	141	2.29	1.16078	0.92645
142	.693	0.35320	0.28213	142	2.27	1.15879	0.92562
143	.689	0.35259	0.28188	143	2.26	1.15680	0.92479

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Schneider ALPA Apo Helvetar - AAH 48

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	.685	0.35199	0.28162	144	2.25	1.15482	0.92396
145	.681 x	0.35139	0.28137	145	2.24 x	1.15286	0.92314
146	.677	0.35080	0.28112	146	2.22	1.15091	0.92232
147	.674	0.35020	0.28087	147	2.21	1.14897	0.92150
148	.67	0.34962	0.28063	148	2.2	1.14704	0.92069
149	.666	0.34903	0.28038	149	2.19	1.14512	0.91988
150	.663 x	0.34845	0.28013	150	2.17 x	1.14321	0.91907
151	.659	0.34787	0.27989	151	2.16	1.14131	0.91827
152	.656	0.34730	0.27965	152	2.15	1.13943	0.91747
153	.652	0.34673	0.27940	153	2.14	1.13755	0.91667
154	.649	0.34616	0.27916	154	2.13	1.13569	0.91588
155	.645 x	0.34559	0.27892	155	2.12 x	1.13383	0.91509
156	.642	0.34503	0.27868	156	2.11	1.13199	0.91430
157	.639	0.34447	0.27844	157	2.1	1.13015	0.91352
158	.635	0.34392	0.27820	158	2.08	1.12833	0.91274
159	.632	0.34336	0.27797	159	2.07	1.12652	0.91196
160	.629 x	0.34281	0.27773	160	2.06 x	1.12472	0.91119
161	.626	0.34227	0.27750	161	2.05	1.12292	0.91042
162	.623	0.34172	0.27726	162	2.04	1.12114	0.90965
163	.62	0.34118	0.27703	163	2.03	1.11937	0.90888
164	.617	0.34065	0.27680	164	2.02	1.11760	0.90812
165	.614 x	0.34011	0.27656	165	2.01 x	1.11585	0.90736
166	.611	0.33958	0.27633	166	2	1.11411	0.90661
167	.608	0.33905	0.27610	167	1.99	1.11237	0.90585
168	.605	0.33853	0.27588	168	1.99	1.11065	0.90510
169	.602	0.33800	0.27565	169	1.98	1.10893	0.90436
170	.599 x	0.33748	0.27542	170	1.97 x	1.10723	0.90361
171	.597	0.33697	0.27520	171	1.96	1.10553	0.90287
172	.594	0.33645	0.27497	172	1.95	1.10384	0.90214
173	.591	0.33594	0.27475	173	1.94	1.10217	0.90140
174	.589	0.33543	0.27452	174	1.93	1.10050	0.90067
175	.586 x	0.33493	0.27430	175	1.92 x	1.09884	0.89994
176	.583	0.33442	0.27408	176	1.91	1.09718	0.89921
177	.581	0.33392	0.27386	177	1.91	1.09554	0.89849
178	.578	0.33342	0.27364	178	1.9	1.09391	0.89777
179	.576	0.33293	0.27342	179	1.89	1.09228	0.89705

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Schneider ALPA Apo Helvetar - AAH 48

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.573 x	0.33244	0.27320	180	1.88 x	1.09067	0.89633
181	.571	0.33195	0.27299	181	1.87	1.08906	0.89562
182	.568	0.33146	0.27277	182	1.86	1.08746	0.89491
183	.566	0.33097	0.27255	183	1.86	1.08587	0.89421
184	.563	0.33049	0.27234	184	1.85	1.08429	0.89350
185	.561 x	0.33001	0.27213	185	1.84 x	1.08272	0.89280
186	.559	0.32953	0.27191	186	1.83	1.08115	0.89210
187	.556	0.32906	0.27170	187	1.83	1.07959	0.89141
188	.554	0.32859	0.27149	188	1.82	1.07804	0.89071
189	.552	0.32812	0.27128	189	1.81	1.07650	0.89002
190	.55 x	0.32765	0.27107	190	1.8 x	1.07497	0.88933
191	.547	0.32719	0.27086	191	1.8	1.07344	0.88865
192	.545	0.32672	0.27065	192	1.79	1.07193	0.88797
193	.543	0.32626	0.27044	193	1.78	1.07042	0.88729
194	.541	0.32581	0.27024	194	1.77	1.06892	0.88661
195	.539 x	0.32535	0.27003	195	1.77 x	1.06742	0.88593
196	.537	0.32490	0.26983	196	1.76	1.06594	0.88526
197	.535	0.32445	0.26962	197	1.75	1.06446	0.88459
198	.532	0.32400	0.26942	198	1.75	1.06299	0.88393
199	.53	0.32355	0.26922	199	1.74	1.06153	0.88326
200	.528 x	0.32311	0.26902	200	1.73 x	1.06007	0.88260
201	.526	0.32267	0.26882	201	1.73	1.05862	0.88194
202	.524	0.32223	0.26861	202	1.72	1.05718	0.88128
203	.522	0.32179	0.26842	203	1.71	1.05575	0.88063
204	.521	0.32136	0.26822	204	1.71	1.05432	0.87998
205	.519 x	0.32092	0.26802	205	1.7 x	1.05290	0.87933
206	.517	0.32049	0.26782	206	1.7	1.05149	0.87868
207	.515	0.32007	0.26763	207	1.69	1.05008	0.87804
208	.513	0.31964	0.26743	208	1.68	1.04869	0.87739
209	.511	0.31922	0.26723	209	1.68	1.04730	0.87675
210	.509 x	0.31879	0.26704	210	1.67 x	1.04591	0.87612
211	.508	0.31837	0.26685	211	1.67	1.04454	0.87548
212	.506	0.31796	0.26665	212	1.66	1.04316	0.87485
213	.504	0.31754	0.26646	213	1.65	1.04180	0.87422
214	.502	0.31713	0.26627	214	1.65	1.04045	0.87359
215	.5 x	0.31672	0.26608	215	1.64 x	1.03910	0.87297

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Schneider ALPA Apo Helvetar - AAH 48

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.499	0.31631	0.26589	216	1.64	1.03775	0.87234
217	.497	0.31590	0.26570	217	1.63	1.03642	0.87172
218	.495	0.31549	0.26551	218	1.63	1.03509	0.87110
219	.494	0.31509	0.26532	219	1.62	1.03376	0.87049
220	.492 x	0.31469	0.26514	220	1.61 x	1.03245	0.86987
221	.49	0.31429	0.26495	221	1.61	1.03114	0.86926
222	.489	0.31389	0.26477	222	1.6	1.02983	0.86865
223	.487	0.31350	0.26458	223	1.6	1.02853	0.86805
224	.485	0.31310	0.26440	224	1.59	1.02724	0.86744
225	.484 x	0.31271	0.26421	225	1.59 x	1.02596	0.86684
226	.482	0.31232	0.26403	226	1.58	1.02468	0.86624
227	.481	0.31193	0.26385	227	1.58	1.02341	0.86564
228	.479	0.31155	0.26367	228	1.57	1.02214	0.86505
229	.478	0.31116	0.26348	229	1.57	1.02088	0.86445
230	.476 x	0.31078	0.26330	230	1.56 x	1.01962	0.86386
231	.475	0.31040	0.26312	231	1.56	1.01838	0.86327
232	.473	0.31002	0.26295	232	1.55	1.01713	0.86268
233	.472	0.30965	0.26277	233	1.55	1.01590	0.86210
234	.47	0.30927	0.26259	234	1.54	1.01467	0.86152
235	.469 x	0.30890	0.26241	235	1.54 x	1.01344	0.86094
236	.467	0.30853	0.26224	236	1.53	1.01222	0.86036
237	.466	0.30816	0.26206	237	1.53	1.01101	0.85978
238	.465	0.30779	0.26189	238	1.52	1.00980	0.85921
239	.463	0.30742	0.26171	239	1.52	1.00860	0.85863
240	.462 x	0.30706	0.26154	240	1.51 x	1.00740	0.85806
241	.46	0.30669	0.26136	241	1.51	1.00621	0.85750
242	.459	0.30633	0.26119	242	1.51	1.00503	0.85693
243	.458	0.30597	0.26102	243	1.5	1.00385	0.85637
244	.456	0.30562	0.26085	244	1.5	1.00268	0.85580
245	.455 x	0.30526	0.26068	245	1.49 x	1.00151	0.85524
246	.454	0.30491	0.26051	246	1.49	1.00035	0.85469
247	.452	0.30455	0.26034	247	1.48	0.99919	0.85413
248	.451	0.30420	0.26017	248	1.48	0.99804	0.85358
249	.45	0.30385	0.26000	249	1.48	0.99689	0.85303
250	.448 x	0.30350	0.25983	250	1.47 x	0.99575	0.85248
251	.447	0.30316	0.25967	251	1.47	0.99461	0.85193

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Schneider ALPA Apo Helvetar - AAH 48

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.446	0.30281	0.25950	252	1.46	0.99348	0.85138
253	.445	0.30247	0.25934	253	1.46	0.99236	0.85084
254	.443	0.30213	0.25917	254	1.45	0.99124	0.85030
255	.442 x	0.30179	0.25901	255	1.45 x	0.99012	0.84976
256	.441	0.30145	0.25884	256	1.45	0.98901	0.84922
257	.44	0.30111	0.25868	257	1.44	0.98791	0.84868
258	.439	0.30078	0.25852	258	1.44	0.98681	0.84815
259	.437	0.30044	0.25835	259	1.43	0.98571	0.84762
260	.436 x	0.30011	0.25819	260	1.43 x	0.98462	0.84709
261	.435	0.29978	0.25803	261	1.43	0.98354	0.84656
262	.434	0.29945	0.25787	262	1.42	0.98246	0.84603
263	.433	0.29912	0.25771	263	1.42	0.98138	0.84551
264	.432	0.29880	0.25755	264	1.42	0.98031	0.84498
265	.43 x	0.29847	0.25739	265	1.41 x	0.97924	0.84446
266	.429	0.29815	0.25723	266	1.41	0.97818	0.84394
267	.428	0.29783	0.25708	267	1.4	0.97713	0.84343
268	.427	0.29751	0.25692	268	1.4	0.97608	0.84291
269	.426	0.29719	0.25676	269	1.4	0.97503	0.84240
270	.425 x	0.29687	0.25661	270	1.39 x	0.97399	0.84188

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Schneider Super-Angulon - SSA 58

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.71037	0.45920	0	∞	XX	2.33061	1.50657
1	122	XX	0.70780	0.45846	1	400	XX	2.32218	1.50412
2	61	XX	0.70526	0.45771	2	200	XX	2.31383	1.50168
3	40.7	XX	0.70273	0.45697	3	134	XX	2.30556	1.49926
4	30.6	XX	0.70023	0.45624	4	100	XX	2.29736	1.49685
5	24.5	X	0.69776	0.45551	5	80.3	X	2.28924	1.49445
6	20.4		0.69531	0.45478	6	67		2.28119	1.49206
7	17.5		0.69287	0.45406	7	57.5		2.27321	1.48969
8	15.4		0.69047	0.45334	8	50.4		2.26531	1.48733
9	13.7		0.68808	0.45262	9	44.8		2.25747	1.48498
10	12.3	X	0.68571	0.45191	10	40.4	X	2.24971	1.48264
11	11.2		0.68337	0.45120	11	36.8		2.24202	1.48031
12	10.3		0.68104	0.45049	12	33.7		2.23439	1.47800
13	9.51		0.67874	0.44979	13	31.2		2.22683	1.47570
14	8.84		0.67646	0.44909	14	29		2.21934	1.47341
15	8.26	X	0.67419	0.44840	15	27.1	X	2.21191	1.47113
16	7.75		0.67195	0.44771	16	25.4		2.20455	1.46886
17	7.3		0.66972	0.44702	17	24		2.19726	1.46660
18	6.9		0.66752	0.44634	18	22.7		2.19002	1.46436
19	6.55		0.66533	0.44566	19	21.5		2.18285	1.46213
20	6.23	X	0.66317	0.44498	20	20.4	X	2.17574	1.45990
21	5.94		0.66102	0.44430	21	19.5		2.16869	1.45769
22	5.67		0.65889	0.44363	22	18.6		2.16170	1.45549
23	5.43		0.65677	0.44297	23	17.8		2.15477	1.45330
24	5.21		0.65468	0.44230	24	17.1		2.14790	1.45112
25	5.01	X	0.65260	0.44164	25	16.4	X	2.14109	1.44896
26	4.82		0.65054	0.44098	26	15.8		2.13433	1.44680
27	4.65		0.64850	0.44033	27	15.3		2.12763	1.44465
28	4.49		0.64648	0.43968	28	14.7		2.12098	1.44252
29	4.34		0.64447	0.43903	29	14.2		2.11440	1.44039
30	4.2	X	0.64248	0.43839	30	13.8	X	2.10786	1.43828
31	4.07		0.64050	0.43775	31	13.3		2.10138	1.43617
32	3.95		0.63854	0.43711	32	12.9		2.09495	1.43408
33	3.83		0.63660	0.43647	33	12.6		2.08857	1.43200
34	3.72		0.63467	0.43584	34	12.2		2.08225	1.42992
35	3.62	X	0.63276	0.43521	35	11.9	X	2.07597	1.42786

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Schneider Super-Angulon - SSA 58

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	3.52	0.63086	0.43459	36	11.6	2.06975	1.42580
37	3.43	0.62898	0.43396	37	11.3	2.06358	1.42376
38	3.35	0.62711	0.43334	38	11	2.05746	1.42173
39	3.26	0.62526	0.43273	39	10.7	2.05138	1.41970
40	3.19 x	0.62342	0.43211	40	10.5 x	2.04535	1.41769
41	3.11	0.62160	0.43150	41	10.2	2.03937	1.41568
42	3.04	0.61979	0.43089	42	9.97	2.03344	1.41369
43	2.97	0.61800	0.43029	43	9.75	2.02756	1.41170
44	2.91	0.61622	0.42968	44	9.54	2.02172	1.40972
45	2.85 x	0.61445	0.42908	45	9.34 x	2.01592	1.40776
46	2.79	0.61270	0.42849	46	9.15	2.01017	1.40580
47	2.73	0.61096	0.42789	47	8.96	2.00447	1.40385
48	2.68	0.60924	0.42730	48	8.79	1.99881	1.40191
49	2.63	0.60752	0.42671	49	8.62	1.99319	1.39998
50	2.58 x	0.60583	0.42613	50	8.45 x	1.98761	1.39806
51	2.53	0.60414	0.42555	51	8.3	1.98208	1.39615
52	2.48	0.60247	0.42497	52	8.15	1.97659	1.39425
53	2.44	0.60080	0.42439	53	8	1.97114	1.39235
54	2.4	0.59916	0.42381	54	7.86	1.96574	1.39047
55	2.36 x	0.59752	0.42324	55	7.73 x	1.96037	1.38859
56	2.32	0.59590	0.42267	56	7.6	1.95504	1.38672
57	2.28	0.59429	0.42211	57	7.47	1.94975	1.38486
58	2.24	0.59269	0.42154	58	7.35	1.94451	1.38301
59	2.21	0.59110	0.42098	59	7.24	1.93930	1.38117
60	2.17 x	0.58952	0.42042	60	7.12 x	1.93413	1.37933
61	2.14	0.58796	0.41986	61	7.01	1.92899	1.37751
62	2.11	0.58640	0.41931	62	6.91	1.92390	1.37569
63	2.07	0.58486	0.41876	63	6.81	1.91884	1.37388
64	2.04	0.58333	0.41821	64	6.71	1.91382	1.37208
65	2.02 x	0.58181	0.41766	65	6.61 x	1.90883	1.37029
66	1.99	0.58030	0.41712	66	6.52	1.90389	1.36851
67	1.96	0.57881	0.41658	67	6.43	1.89897	1.36673
68	1.93	0.57732	0.41604	68	6.34	1.89409	1.36496
69	1.91	0.57584	0.41550	69	6.26	1.88925	1.36320
70	1.88 x	0.57438	0.41497	70	6.17 x	1.88444	1.36145
71	1.86	0.57292	0.41444	71	6.09	1.87967	1.35971

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Schneider Super-Angulon - SSA 58

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	1.83	0.57148	0.41391	72	6.02	1.87493	1.35797
73	1.81	0.57004	0.41338	73	5.94	1.87022	1.35624
74	1.79	0.56862	0.41286	74	5.87	1.86555	1.35452
75	1.77 x	0.56720	0.41234	75	5.79 x	1.86090	1.35281
76	1.74	0.56580	0.41182	76	5.72	1.85630	1.35110
77	1.72	0.56440	0.41130	77	5.66	1.85172	1.34941
78	1.7	0.56302	0.41078	78	5.59	1.84717	1.34772
79	1.68	0.56164	0.41027	79	5.52	1.84266	1.34603
80	1.66 x	0.56028	0.40976	80	5.46 x	1.83818	1.34436
81	1.65	0.55892	0.40925	81	5.4	1.83373	1.34269
82	1.63	0.55757	0.40875	82	5.34	1.82930	1.34103
83	1.61	0.55623	0.40824	83	5.28	1.82491	1.33938
84	1.59	0.55490	0.40774	84	5.22	1.82055	1.33773
85	1.58 x	0.55358	0.40724	85	5.17 x	1.81622	1.33609
86	1.56	0.55227	0.40674	86	5.11	1.81192	1.33446
87	1.54	0.55097	0.40625	87	5.06	1.80764	1.33284
88	1.53	0.54968	0.40576	88	5.01	1.80340	1.33122
89	1.51	0.54839	0.40526	89	4.96	1.79918	1.32961
90	1.5 x	0.54711	0.40478	90	4.91 x	1.79499	1.32800
91	1.48	0.54585	0.40429	91	4.86	1.79083	1.32641
92	1.47	0.54459	0.40380	92	4.81	1.78670	1.32482
93	1.45	0.54334	0.40332	93	4.76	1.78260	1.32324
94	1.44	0.54209	0.40284	94	4.72	1.77852	1.32166
95	1.42 x	0.54086	0.40236	95	4.67 x	1.77447	1.32009
96	1.41	0.53963	0.40189	96	4.63	1.77044	1.31853
97	1.4	0.53841	0.40141	97	4.59	1.76644	1.31697
98	1.39	0.53720	0.40094	98	4.55	1.76247	1.31543
99	1.37	0.53600	0.40047	99	4.51	1.75852	1.31388
100	1.36 x	0.53480	0.40000	100	4.46 x	1.75460	1.31235
101	1.35	0.53362	0.39954	101	4.43	1.75071	1.31082
102	1.34	0.53244	0.39907	102	4.39	1.74684	1.30930
103	1.33	0.53126	0.39861	103	4.35	1.74299	1.30778
104	1.31	0.53010	0.39815	104	4.31	1.73917	1.30627
105	1.3 x	0.52894	0.39769	105	4.28 x	1.73537	1.30477
106	1.29	0.52779	0.39724	106	4.24	1.73160	1.30327
107	1.28	0.52665	0.39678	107	4.2	1.72785	1.30178

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Schneider Super-Angulon - SSA 58

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	1.27	0.52551	0.39633	108	4.17	1.72413	1.30030
109	1.26	0.52439	0.39588	109	4.14	1.72042	1.29882
110	1.25 x	0.52326	0.39543	110	4.1 x	1.71675	1.29735
111	1.24	0.52215	0.39498	111	4.07	1.71309	1.29588
112	1.23	0.52104	0.39454	112	4.04	1.70946	1.29442
113	1.22	0.51994	0.39410	113	4.01	1.70585	1.29297
114	1.21	0.51885	0.39366	114	3.98	1.70226	1.29152
115	1.2 x	0.51776	0.39322	115	3.95 x	1.69870	1.29008
116	1.19	0.51668	0.39278	116	3.92	1.69515	1.28864
117	1.18	0.51561	0.39234	117	3.89	1.69163	1.28721
118	1.18	0.51454	0.39191	118	3.86	1.68813	1.28579
119	1.17	0.51348	0.39148	119	3.83	1.68465	1.28437
120	1.16 x	0.51243	0.39105	120	3.8 x	1.68120	1.28296
121	1.15	0.51138	0.39062	121	3.77	1.67776	1.28156
122	1.14	0.51034	0.39019	122	3.75	1.67435	1.28015
123	1.13	0.50931	0.38977	123	3.72	1.67095	1.27876
124	1.13	0.50828	0.38934	124	3.69	1.66758	1.27737
125	1.12 x	0.50726	0.38892	125	3.67 x	1.66422	1.27599
126	1.11	0.50624	0.38850	126	3.64	1.66089	1.27461
127	1.1	0.50523	0.38808	127	3.62	1.65758	1.27324
128	1.1	0.50423	0.38767	128	3.59	1.65428	1.27187
129	1.09	0.50323	0.38725	129	3.57	1.65101	1.27051
130	1.08 x	0.50224	0.38684	130	3.55 x	1.64775	1.26916
131	1.07	0.50125	0.38643	131	3.52	1.64452	1.26781
132	1.07	0.50027	0.38602	132	3.5	1.64130	1.26646
133	1.06	0.49929	0.38561	133	3.48	1.63811	1.26513
134	1.05	0.49833	0.38520	134	3.45	1.63493	1.26379
135	1.05 x	0.49736	0.38480	135	3.43 x	1.63177	1.26246
136	1.04	0.49641	0.38440	136	3.41	1.62863	1.26114
137	1.03	0.49545	0.38399	137	3.39	1.62550	1.25982
138	1.03	0.49451	0.38359	138	3.37	1.62240	1.25851
139	1.02	0.49357	0.38320	139	3.35	1.61931	1.25720
140	1.01 x	0.49263	0.38280	140	3.33 x	1.61624	1.25590
141	1.01	0.49170	0.38240	141	3.31	1.61319	1.25461
142	1	0.49078	0.38201	142	3.29	1.61016	1.25332
143	.996	0.48986	0.38162	143	3.27	1.60714	1.25203

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Schneider Super-Angulon - SSA 58

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	.99	0.48894	0.38123	144	3.25	1.60414	1.25075
145	.984 x	0.48803	0.38084	145	3.23 x	1.60116	1.24947
146	.979	0.48713	0.38045	146	3.21	1.59819	1.24820
147	.973	0.48623	0.38007	147	3.19	1.59525	1.24694
148	.967	0.48534	0.37968	148	3.17	1.59231	1.24567
149	.962	0.48445	0.37930	149	3.16	1.58940	1.24442
150	.957 x	0.48357	0.37892	150	3.14 x	1.58650	1.24317
151	.951	0.48269	0.37854	151	3.12	1.58362	1.24192
152	.946	0.48181	0.37816	152	3.1	1.58075	1.24068
153	.941	0.48094	0.37778	153	3.09	1.57790	1.23944
154	.936	0.48008	0.37741	154	3.07	1.57507	1.23821
155	.93 x	0.47922	0.37703	155	3.05 x	1.57225	1.23699
156	.925	0.47837	0.37666	156	3.04	1.56945	1.23576
157	.921	0.47752	0.37629	157	3.02	1.56666	1.23455
158	.916	0.47667	0.37592	158	3	1.56389	1.23333
159	.911	0.47583	0.37555	159	2.99	1.56113	1.23213
160	.906 x	0.47500	0.37519	160	2.97 x	1.55839	1.23092
161	.901	0.47417	0.37482	161	2.96	1.55566	1.22972
162	.897	0.47334	0.37446	162	2.94	1.55295	1.22853
163	.892	0.47252	0.37409	163	2.93	1.55026	1.22734
164	.888	0.47170	0.37373	164	2.91	1.54757	1.22616
165	.883 x	0.47089	0.37337	165	2.9 x	1.54491	1.22498
166	.879	0.47008	0.37301	166	2.88	1.54225	1.22380
167	.874	0.46927	0.37266	167	2.87	1.53962	1.22263
168	.87	0.46848	0.37230	168	2.85	1.53699	1.22146
169	.866	0.46768	0.37195	169	2.84	1.53438	1.22030
170	.862 x	0.46689	0.37160	170	2.83 x	1.53178	1.21914
171	.857	0.46610	0.37124	171	2.81	1.52920	1.21799
172	.853	0.46532	0.37089	172	2.8	1.52663	1.21684
173	.849	0.46454	0.37054	173	2.79	1.52408	1.21570
174	.845	0.46376	0.37020	174	2.77	1.52154	1.21456
175	.841 x	0.46299	0.36985	175	2.76 x	1.51901	1.21342
176	.837	0.46223	0.36951	176	2.75	1.51650	1.21229
177	.833	0.46147	0.36916	177	2.73	1.51399	1.21116
178	.83	0.46071	0.36882	178	2.72	1.51151	1.21004
179	.826	0.45995	0.36848	179	2.71	1.50903	1.20892

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Schneider Super-Angulon - SSA 58

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.822 x	0.45920	0.36814	180	2.7 x	1.50657	1.20780
181	.818	0.45846	0.36780	181	2.68	1.50412	1.20669
182	.815	0.45771	0.36746	182	2.67	1.50168	1.20559
183	.811	0.45697	0.36713	183	2.66	1.49926	1.20449
184	.807	0.45624	0.36679	184	2.65	1.49685	1.20339
185	.804 x	0.45551	0.36646	185	2.64 x	1.49445	1.20229
186	.8	0.45478	0.36613	186	2.63	1.49206	1.20120
187	.797	0.45406	0.36580	187	2.61	1.48969	1.20012
188	.794	0.45334	0.36547	188	2.6	1.48733	1.19904
189	.79	0.45262	0.36514	189	2.59	1.48498	1.19796
190	.787 x	0.45191	0.36481	190	2.58 x	1.48264	1.19688
191	.783	0.45120	0.36448	191	2.57	1.48031	1.19581
192	.78	0.45049	0.36416	192	2.56	1.47800	1.19475
193	.777	0.44979	0.36384	193	2.55	1.47570	1.19369
194	.774	0.44909	0.36351	194	2.54	1.47341	1.19263
195	.77 x	0.44840	0.36319	195	2.53 x	1.47113	1.19157
196	.767	0.44771	0.36287	196	2.52	1.46886	1.19052
197	.764	0.44702	0.36255	197	2.51	1.46660	1.18948
198	.761	0.44634	0.36223	198	2.5	1.46436	1.18843
199	.758	0.44566	0.36192	199	2.49	1.46213	1.18740
200	.755 x	0.44498	0.36160	200	2.48 x	1.45990	1.18636
201	.752	0.44430	0.36129	201	2.47	1.45769	1.18533
202	.749	0.44363	0.36098	202	2.46	1.45549	1.18430
203	.746	0.44297	0.36066	203	2.45	1.45330	1.18328
204	.743	0.44230	0.36035	204	2.44	1.45112	1.18226
205	.74 x	0.44164	0.36004	205	2.43 x	1.44896	1.18124
206	.737	0.44098	0.35973	206	2.42	1.44680	1.18023
207	.735	0.44033	0.35943	207	2.41	1.44465	1.17922
208	.732	0.43968	0.35912	208	2.4	1.44252	1.17821
209	.729	0.43903	0.35881	209	2.39	1.44039	1.17721
210	.726 x	0.43839	0.35851	210	2.38 x	1.43828	1.17621
211	.724	0.43775	0.35821	211	2.37	1.43617	1.17522
212	.721	0.43711	0.35790	212	2.37	1.43408	1.17423
213	.718	0.43647	0.35760	213	2.36	1.43200	1.17324
214	.716	0.43584	0.35730	214	2.35	1.42992	1.17226
215	.713 x	0.43521	0.35700	215	2.34 x	1.42786	1.17128

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Schneider Super-Angulon - SSA 58

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.71	0.43459	0.35671	216	2.33	1.42580	1.17030
217	.708	0.43396	0.35641	217	2.32	1.42376	1.16933
218	.705	0.43334	0.35611	218	2.31	1.42173	1.16836
219	.703	0.43273	0.35582	219	2.31	1.41970	1.16739
220	.7 x	0.43211	0.35553	220	2.3 x	1.41769	1.16643
221	.698	0.43150	0.35523	221	2.29	1.41568	1.16547
222	.695	0.43089	0.35494	222	2.28	1.41369	1.16451
223	.693	0.43029	0.35465	223	2.27	1.41170	1.16356
224	.69	0.42968	0.35436	224	2.27	1.40972	1.16261
225	.688 x	0.42908	0.35407	225	2.26 x	1.40776	1.16166
226	.686	0.42849	0.35379	226	2.25	1.40580	1.16072
227	.683	0.42789	0.35350	227	2.24	1.40385	1.15978
228	.681	0.42730	0.35322	228	2.23	1.40191	1.15884
229	.679	0.42671	0.35293	229	2.23	1.39998	1.15791
230	.676 x	0.42613	0.35265	230	2.22 x	1.39806	1.15698
231	.674	0.42555	0.35237	231	2.21	1.39615	1.15605
232	.672	0.42497	0.35208	232	2.2	1.39425	1.15513
233	.67	0.42439	0.35180	233	2.2	1.39235	1.15421
234	.668	0.42381	0.35152	234	2.19	1.39047	1.15329
235	.665 x	0.42324	0.35125	235	2.18 x	1.38859	1.15238
236	.663	0.42267	0.35097	236	2.18	1.38672	1.15147
237	.661	0.42211	0.35069	237	2.17	1.38486	1.15056
238	.659	0.42154	0.35042	238	2.16	1.38301	1.14966
239	.657	0.42098	0.35014	239	2.15	1.38117	1.14876
240	.655 x	0.42042	0.34987	240	2.15 x	1.37933	1.14786
241	.653	0.41986	0.34960	241	2.14	1.37751	1.14697
242	.651	0.41931	0.34932	242	2.13	1.37569	1.14607
243	.649	0.41876	0.34905	243	2.13	1.37388	1.14519
244	.646	0.41821	0.34878	244	2.12	1.37208	1.14430
245	.644 x	0.41766	0.34851	245	2.11 x	1.37029	1.14342
246	.642	0.41712	0.34825	246	2.11	1.36851	1.14254
247	.641	0.41658	0.34798	247	2.1	1.36673	1.14166
248	.639	0.41604	0.34771	248	2.09	1.36496	1.14079
249	.637	0.41550	0.34745	249	2.09	1.36320	1.13992
250	.635 x	0.41497	0.34718	250	2.08 x	1.36145	1.13905
251	.633	0.41444	0.34692	251	2.08	1.35971	1.13819

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Schneider Super-Angulon - SSA 58

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.631	0.41391	0.34666	252	2.07	1.35797	1.13733
253	.629	0.41338	0.34640	253	2.06	1.35624	1.13647
254	.627	0.41286	0.34613	254	2.06	1.35452	1.13561
255	.625 x	0.41234	0.34587	255	2.05 x	1.35281	1.13476
256	.623	0.41182	0.34562	256	2.05	1.35110	1.13391
257	.622	0.41130	0.34536	257	2.04	1.34941	1.13306
258	.62	0.41078	0.34510	258	2.03	1.34772	1.13222
259	.618	0.41027	0.34484	259	2.03	1.34603	1.13138
260	.616 x	0.40976	0.34459	260	2.02 x	1.34436	1.13054
261	.614	0.40925	0.34433	261	2.02	1.34269	1.12970
262	.613	0.40875	0.34408	262	2.01	1.34103	1.12887
263	.611	0.40824	0.34383	263	2	1.33938	1.12804
264	.609	0.40774	0.34357	264	2	1.33773	1.12721
265	.608 x	0.40724	0.34332	265	1.99 x	1.33609	1.12639
266	.606	0.40674	0.34307	266	1.99	1.33446	1.12557
267	.604	0.40625	0.34282	267	1.98	1.33284	1.12475
268	.602	0.40576	0.34257	268	1.98	1.33122	1.12393
269	.601	0.40526	0.34233	269	1.97	1.32961	1.12312
270	.599 x	0.40478	0.34208	270	1.97 x	1.32800	1.12231

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Schneider Apo-Digitar - SAD 60

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.72283	0.45565	0	∞	XX	2.37149	1.49491
1	129	XX	0.72010	0.45485	1	425	XX	2.36253	1.49230
2	64.8	XX	0.71739	0.45406	2	213	XX	2.35365	1.48971
3	43.2	XX	0.71471	0.45328	3	142	XX	2.34485	1.48713
4	32.5	XX	0.71205	0.45249	4	106	XX	2.33614	1.48456
5	26	X	0.70942	0.45171	5	85.3	X	2.32750	1.48200
6	21.7		0.70681	0.45094	6	71.1		2.31894	1.47946
7	18.6		0.70423	0.45017	7	61		2.31046	1.47693
8	16.3		0.70167	0.44940	8	53.4		2.30206	1.47442
9	14.5		0.69913	0.44864	9	47.5		2.29373	1.47192
10	13.1	X	0.69661	0.44788	10	42.8	X	2.28547	1.46943
11	11.9		0.69412	0.44713	11	39		2.27729	1.46695
12	10.9		0.69165	0.44638	12	35.8		2.26919	1.46449
13	10.1		0.68920	0.44563	13	33		2.26115	1.46203
14	9.36		0.68677	0.44488	14	30.7		2.25318	1.45960
15	8.74	X	0.68436	0.44414	15	28.7	X	2.24529	1.45717
16	8.2		0.68198	0.44341	16	26.9		2.23746	1.45475
17	7.73		0.67961	0.44268	17	25.4		2.22970	1.45235
18	7.3		0.67727	0.44195	18	24		2.22201	1.44996
19	6.93		0.67494	0.44122	19	22.7		2.21439	1.44758
20	6.59	X	0.67264	0.44050	20	21.6	X	2.20683	1.44521
21	6.28		0.67036	0.43978	21	20.6		2.19933	1.44286
22	6		0.66809	0.43907	22	19.7		2.19190	1.44052
23	5.74		0.66584	0.43836	23	18.8		2.18453	1.43818
24	5.51		0.66362	0.43765	24	18.1		2.17722	1.43586
25	5.29	X	0.66141	0.43695	25	17.4	X	2.16998	1.43355
26	5.09		0.65922	0.43625	26	16.7		2.16279	1.43126
27	4.91		0.65705	0.43555	27	16.1		2.15567	1.42897
28	4.74		0.65489	0.43486	28	15.5		2.14860	1.42670
29	4.58		0.65276	0.43417	29	15		2.14159	1.42443
30	4.43	X	0.65064	0.43348	30	14.5	X	2.13464	1.42218
31	4.29		0.64854	0.43280	31	14.1		2.12775	1.41994
32	4.16		0.64645	0.43212	32	13.7		2.12092	1.41771
33	4.04		0.64439	0.43144	33	13.2		2.11413	1.41549
34	3.92		0.64234	0.43077	34	12.9		2.10741	1.41328
35	3.81	X	0.64030	0.43010	35	12.5	X	2.10074	1.41108

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Schneider Apo-Digitar - SAD 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	3.71	0.63829	0.42943	36	12.2	2.09412	1.40889
37	3.61	0.63629	0.42877	37	11.9	2.08755	1.40671
38	3.52	0.63430	0.42811	38	11.6	2.08104	1.40455
39	3.44	0.63233	0.42745	39	11.3	2.07458	1.40239
40	3.35 x	0.63038	0.42679	40	11 x	2.06817	1.40024
41	3.27	0.62844	0.42614	41	10.7	2.06181	1.39811
42	3.2	0.62652	0.42550	42	10.5	2.05551	1.39598
43	3.13	0.62461	0.42485	43	10.3	2.04925	1.39387
44	3.06	0.62272	0.42421	44	10	2.04304	1.39176
45	2.99 x	0.62084	0.42357	45	9.82 x	2.03687	1.38967
46	2.93	0.61898	0.42293	46	9.62	2.03076	1.38758
47	2.87	0.61713	0.42230	47	9.42	2.02469	1.38550
48	2.81	0.61529	0.42167	48	9.23	2.01867	1.38344
49	2.76	0.61347	0.42104	49	9.05	2.01270	1.38138
50	2.71 x	0.61166	0.42042	50	8.88 x	2.00677	1.37933
51	2.66	0.60987	0.41980	51	8.71	2.00088	1.37730
52	2.61	0.60809	0.41918	52	8.55	1.99505	1.37527
53	2.56	0.60632	0.41857	53	8.4	1.98925	1.37325
54	2.51	0.60457	0.41795	54	8.25	1.98350	1.37124
55	2.47 x	0.60283	0.41734	55	8.11 x	1.97779	1.36924
56	2.43	0.60110	0.41674	56	7.97	1.97212	1.36725
57	2.39	0.59939	0.41613	57	7.84	1.96650	1.36527
58	2.35	0.59769	0.41553	58	7.71	1.96092	1.36330
59	2.31	0.59600	0.41493	59	7.58	1.95538	1.36133
60	2.28 x	0.59432	0.41434	60	7.47 x	1.94988	1.35938
61	2.24	0.59266	0.41375	61	7.35	1.94442	1.35743
62	2.21	0.59101	0.41316	62	7.24	1.93900	1.35550
63	2.17	0.58937	0.41257	63	7.13	1.93362	1.35357
64	2.14	0.58774	0.41198	64	7.02	1.92828	1.35165
65	2.11 x	0.58612	0.41140	65	6.92 x	1.92298	1.34974
66	2.08	0.58452	0.41082	66	6.82	1.91771	1.34784
67	2.05	0.58293	0.41025	67	6.73	1.91249	1.34595
68	2.02	0.58134	0.40967	68	6.63	1.90730	1.34406
69	1.99	0.57977	0.40910	69	6.54	1.90215	1.34219
70	1.97 x	0.57822	0.40853	70	6.46 x	1.89703	1.34032
71	1.94	0.57667	0.40796	71	6.37	1.89195	1.33846

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Schneider Apo-Digitar - SAD 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	1.92	0.57513	0.40740	72	6.29	1.88691	1.33661
73	1.89	0.57360	0.40684	73	6.21	1.88190	1.33477
74	1.87	0.57209	0.40628	74	6.13	1.87693	1.33294
75	1.84 x	0.57058	0.40572	75	6.05 x	1.87199	1.33111
76	1.82	0.56909	0.40517	76	5.98	1.86709	1.32929
77	1.8	0.56761	0.40462	77	5.91	1.86222	1.32748
78	1.78	0.56613	0.40407	78	5.83	1.85739	1.32568
79	1.76	0.56467	0.40352	79	5.77	1.85259	1.32389
80	1.74 x	0.56321	0.40298	80	5.7 x	1.84782	1.32210
81	1.72	0.56177	0.40243	81	5.63	1.84308	1.32032
82	1.7	0.56034	0.40190	82	5.57	1.83838	1.31855
83	1.68	0.55891	0.40136	83	5.51	1.83371	1.31679
84	1.66	0.55750	0.40082	84	5.45	1.82907	1.31504
85	1.64 x	0.55610	0.40029	85	5.39 x	1.82446	1.31329
86	1.62	0.55470	0.39976	86	5.33	1.81988	1.31155
87	1.61	0.55331	0.39923	87	5.27	1.81534	1.30982
88	1.59	0.55194	0.39871	88	5.22	1.81082	1.30810
89	1.57	0.55057	0.39818	89	5.16	1.80633	1.30638
90	1.56 x	0.54921	0.39766	90	5.11 x	1.80188	1.30467
91	1.54	0.54786	0.39714	91	5.06	1.79745	1.30297
92	1.53	0.54652	0.39663	92	5.01	1.79306	1.30127
93	1.51	0.54519	0.39611	93	4.96	1.78869	1.29959
94	1.5	0.54387	0.39560	94	4.91	1.78435	1.29791
95	1.48 x	0.54256	0.39509	95	4.86 x	1.78004	1.29623
96	1.47	0.54125	0.39458	96	4.82	1.77576	1.29457
97	1.45	0.53995	0.39408	97	4.77	1.77150	1.29291
98	1.44	0.53867	0.39358	98	4.73	1.76728	1.29126
99	1.43	0.53739	0.39307	99	4.68	1.76308	1.28962
100	1.41 x	0.53611	0.39258	100	4.64 x	1.75891	1.28798
101	1.4	0.53485	0.39208	101	4.6	1.75476	1.28635
102	1.39	0.53360	0.39158	102	4.56	1.75064	1.28472
103	1.38	0.53235	0.39109	103	4.52	1.74655	1.28311
104	1.36	0.53111	0.39060	104	4.48	1.74248	1.28150
105	1.35 x	0.52988	0.39011	105	4.44 x	1.73844	1.27990
106	1.34	0.52865	0.38963	106	4.4	1.73443	1.27830
107	1.33	0.52744	0.38914	107	4.36	1.73044	1.27671

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Schneider Apo-Digitar - SAD 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	1.32	0.52623	0.38866	108	4.33	1.72648	1.27513
109	1.31	0.52503	0.38818	109	4.29	1.72254	1.27355
110	1.3 x	0.52384	0.38770	110	4.25 x	1.71862	1.27198
111	1.29	0.52265	0.38722	111	4.22	1.71474	1.27042
112	1.28	0.52147	0.38675	112	4.19	1.71087	1.26886
113	1.27	0.52030	0.38628	113	4.15	1.70703	1.26731
114	1.26	0.51914	0.38581	114	4.12	1.70321	1.26577
115	1.25 x	0.51798	0.38534	115	4.09 x	1.69942	1.26423
116	1.24	0.51683	0.38487	116	4.06	1.69565	1.26270
117	1.23	0.51569	0.38441	117	4.02	1.69190	1.26118
118	1.22	0.51456	0.38394	118	3.99	1.68818	1.25966
119	1.21	0.51343	0.38348	119	3.96	1.68447	1.25815
120	1.2 x	0.51231	0.38302	120	3.93 x	1.68080	1.25664
121	1.19	0.51119	0.38257	121	3.91	1.67714	1.25514
122	1.18	0.51008	0.38211	122	3.88	1.67351	1.25365
123	1.17	0.50898	0.38166	123	3.85	1.66989	1.25216
124	1.16	0.50789	0.38121	124	3.82	1.66630	1.25068
125	1.16 x	0.50680	0.38076	125	3.79 x	1.66273	1.24920
126	1.15	0.50572	0.38031	126	3.77	1.65919	1.24773
127	1.14	0.50465	0.37986	127	3.74	1.65566	1.24627
128	1.13	0.50358	0.37942	128	3.71	1.65215	1.24481
129	1.12	0.50251	0.37898	129	3.69	1.64867	1.24336
130	1.12 x	0.50146	0.37854	130	3.66 x	1.64521	1.24192
131	1.11	0.50041	0.37810	131	3.64	1.64176	1.24048
132	1.1	0.49937	0.37766	132	3.61	1.63834	1.23904
133	1.09	0.49833	0.37723	133	3.59	1.63494	1.23762
134	1.09	0.49730	0.37679	134	3.57	1.63155	1.23619
135	1.08 x	0.49627	0.37636	135	3.54 x	1.62819	1.23478
136	1.07	0.49525	0.37593	136	3.52	1.62485	1.23337
137	1.07	0.49424	0.37550	137	3.5	1.62152	1.23196
138	1.06	0.49323	0.37507	138	3.47	1.61822	1.23056
139	1.05	0.49223	0.37465	139	3.45	1.61493	1.22917
140	1.05 x	0.49124	0.37423	140	3.43 x	1.61167	1.22778
141	1.04	0.49025	0.37381	141	3.41	1.60842	1.22639
142	1.03	0.48926	0.37339	142	3.39	1.60519	1.22502
143	1.03	0.48828	0.37297	143	3.37	1.60198	1.22364

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** H +6/17 = theoretical distance using the respective hub of the helical plus macro tube of the corresponding dimension (in mm) at a given degree setting - Please check if distance is achievable in reality as the cc might be within the optical system!

Schneider Apo-Digitar - SAD 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	1.02	0.48731	0.37255	144	3.35	1.59879	1.22228
145	1.01 x	0.48634	0.37214	145	3.33 x	1.59561	1.22092
146	1.01	0.48538	0.37172	146	3.31	1.59246	1.21956
147	1	0.48442	0.37131	147	3.29	1.58932	1.21821
148	.996	0.48347	0.37090	148	3.27	1.58620	1.21686
149	.99	0.48253	0.37049	149	3.25	1.58310	1.21552
150	.984 x	0.48159	0.37008	150	3.23 x	1.58001	1.21419
151	.979	0.48065	0.36968	151	3.21	1.57694	1.21286
152	.973	0.47972	0.36928	152	3.19	1.57389	1.21153
153	.968	0.47880	0.36887	153	3.17	1.57086	1.21022
154	.962	0.47788	0.36847	154	3.16	1.56784	1.20890
155	.957 x	0.47696	0.36807	155	3.14 x	1.56484	1.20759
156	.951	0.47605	0.36768	156	3.12	1.56186	1.20629
157	.946	0.47515	0.36728	157	3.1	1.55889	1.20499
158	.941	0.47425	0.36689	158	3.09	1.55594	1.20370
159	.936	0.47336	0.36649	159	3.07	1.55300	1.20241
160	.931 x	0.47247	0.36610	160	3.05 x	1.55009	1.20112
161	.926	0.47158	0.36571	161	3.04	1.54718	1.19984
162	.921	0.47070	0.36532	162	3.02	1.54430	1.19857
163	.916	0.46983	0.36494	163	3.01	1.54143	1.19730
164	.911	0.46896	0.36455	164	2.99	1.53857	1.19604
165	.906 x	0.46809	0.36417	165	2.97 x	1.53573	1.19478
166	.902	0.46723	0.36379	166	2.96	1.53291	1.19352
167	.897	0.46637	0.36340	167	2.94	1.53010	1.19227
168	.893	0.46552	0.36302	168	2.93	1.52730	1.19103
169	.888	0.46467	0.36265	169	2.91	1.52452	1.18978
170	.884 x	0.46383	0.36227	170	2.9 x	1.52176	1.18855
171	.879	0.46299	0.36189	171	2.88	1.51901	1.18732
172	.875	0.46216	0.36152	172	2.87	1.51628	1.18609
173	.87	0.46133	0.36115	173	2.86	1.51355	1.18487
174	.866	0.46051	0.36078	174	2.84	1.51085	1.18365
175	.862 x	0.45969	0.36041	175	2.83 x	1.50816	1.18244
176	.858	0.45887	0.36004	176	2.81	1.50548	1.18123
177	.854	0.45806	0.35967	177	2.8	1.50282	1.18003
178	.85	0.45725	0.35931	178	2.79	1.50017	1.17883
179	.846	0.45645	0.35894	179	2.77	1.49753	1.17763

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Schneider Apo-Digitar - SAD 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.842 x	0.45565	0.35858	180	2.76 x	1.49491	1.17644
181	.838	0.45485	0.35822	181	2.75	1.49230	1.17526
182	.834	0.45406	0.35786	182	2.74	1.48971	1.17408
183	.83	0.45328	0.35750	183	2.72	1.48713	1.17290
184	.826	0.45249	0.35714	184	2.71	1.48456	1.17173
185	.822 x	0.45171	0.35679	185	2.7 x	1.48200	1.17056
186	.819	0.45094	0.35643	186	2.69	1.47946	1.16940
187	.815	0.45017	0.35608	187	2.67	1.47693	1.16824
188	.811	0.44940	0.35573	188	2.66	1.47442	1.16708
189	.808	0.44864	0.35538	189	2.65	1.47192	1.16593
190	.804 x	0.44788	0.35503	190	2.64 x	1.46943	1.16478
191	.801	0.44713	0.35468	191	2.63	1.46695	1.16364
192	.797	0.44638	0.35433	192	2.61	1.46449	1.16250
193	.794	0.44563	0.35399	193	2.6	1.46203	1.16137
194	.79	0.44488	0.35364	194	2.59	1.45960	1.16024
195	.787 x	0.44414	0.35330	195	2.58 x	1.45717	1.15911
196	.783	0.44341	0.35296	196	2.57	1.45475	1.15799
197	.78	0.44268	0.35262	197	2.56	1.45235	1.15687
198	.777	0.44195	0.35228	198	2.55	1.44996	1.15576
199	.774	0.44122	0.35194	199	2.54	1.44758	1.15465
200	.77 x	0.44050	0.35160	200	2.53 x	1.44521	1.15355
201	.767	0.43978	0.35126	201	2.52	1.44286	1.15244
202	.764	0.43907	0.35093	202	2.51	1.44052	1.15135
203	.761	0.43836	0.35060	203	2.5	1.43818	1.15025
204	.758	0.43765	0.35026	204	2.49	1.43586	1.14916
205	.755 x	0.43695	0.34993	205	2.48 x	1.43355	1.14808
206	.752	0.43625	0.34960	206	2.47	1.43126	1.14700
207	.749	0.43555	0.34928	207	2.46	1.42897	1.14592
208	.746	0.43486	0.34895	208	2.45	1.42670	1.14484
209	.743	0.43417	0.34862	209	2.44	1.42443	1.14377
210	.74 x	0.43348	0.34830	210	2.43 x	1.42218	1.14271
211	.737	0.43280	0.34797	211	2.42	1.41994	1.14164
212	.734	0.43212	0.34765	212	2.41	1.41771	1.14059
213	.731	0.43144	0.34733	213	2.4	1.41549	1.13953
214	.728	0.43077	0.34701	214	2.39	1.41328	1.13848
215	.726 x	0.43010	0.34669	215	2.38 x	1.41108	1.13743

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Schneider Apo-Digitar - SAD 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.723	0.42943	0.34637	216	2.37	1.40889	1.13639
217	.72	0.42877	0.34605	217	2.36	1.40671	1.13535
218	.717	0.42811	0.34574	218	2.35	1.40455	1.13431
219	.715	0.42745	0.34542	219	2.34	1.40239	1.13328
220	.712 x	0.42679	0.34511	220	2.34 x	1.40024	1.13225
221	.709	0.42614	0.34480	221	2.33	1.39811	1.13123
222	.707	0.42550	0.34449	222	2.32	1.39598	1.13020
223	.704	0.42485	0.34418	223	2.31	1.39387	1.12919
224	.702	0.42421	0.34387	224	2.3	1.39176	1.12817
225	.699 x	0.42357	0.34356	225	2.29 x	1.38967	1.12716
226	.697	0.42293	0.34325	226	2.29	1.38758	1.12615
227	.694	0.42230	0.34295	227	2.28	1.38550	1.12515
228	.692	0.42167	0.34264	228	2.27	1.38344	1.12415
229	.689	0.42104	0.34234	229	2.26	1.38138	1.12315
230	.687 x	0.42042	0.34203	230	2.25 x	1.37933	1.12216
231	.684	0.41980	0.34173	231	2.25	1.37730	1.12117
232	.682	0.41918	0.34143	232	2.24	1.37527	1.12018
233	.68	0.41857	0.34113	233	2.23	1.37325	1.11920
234	.677	0.41795	0.34083	234	2.22	1.37124	1.11822
235	.675 x	0.41734	0.34054	235	2.21 x	1.36924	1.11724
236	.673	0.41674	0.34024	236	2.21	1.36725	1.11627
237	.67	0.41613	0.33994	237	2.2	1.36527	1.11530
238	.668	0.41553	0.33965	238	2.19	1.36330	1.11433
239	.666	0.41493	0.33936	239	2.18	1.36133	1.11337
240	.664 x	0.41434	0.33906	240	2.18 x	1.35938	1.11241
241	.661	0.41375	0.33877	241	2.17	1.35743	1.11145
242	.659	0.41316	0.33848	242	2.16	1.35550	1.11050
243	.657	0.41257	0.33819	243	2.16	1.35357	1.10955
244	.655	0.41198	0.33790	244	2.15	1.35165	1.10861
245	.653 x	0.41140	0.33762	245	2.14 x	1.34974	1.10766
246	.651	0.41082	0.33733	246	2.13	1.34784	1.10672
247	.649	0.41025	0.33704	247	2.13	1.34595	1.10579
248	.646	0.40967	0.33676	248	2.12	1.34406	1.10485
249	.644	0.40910	0.33648	249	2.11	1.34219	1.10392
250	.642 x	0.40853	0.33619	250	2.11 x	1.34032	1.10299
251	.64	0.40796	0.33591	251	2.1	1.33846	1.10207

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Schneider Apo-Digitar - SAD 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.638	0.40740	0.33563	252	2.09	1.33661	1.10115
253	.636	0.40684	0.33535	253	2.09	1.33477	1.10023
254	.634	0.40628	0.33507	254	2.08	1.33294	1.09932
255	.632 x	0.40572	0.33479	255	2.07 x	1.33111	1.09840
256	.63	0.40517	0.33452	256	2.07	1.32929	1.09750
257	.628	0.40462	0.33424	257	2.06	1.32748	1.09659
258	.627	0.40407	0.33397	258	2.06	1.32568	1.09569
259	.625	0.40352	0.33369	259	2.05	1.32389	1.09479
260	.623 x	0.40298	0.33342	260	2.04 x	1.32210	1.09389
261	.621	0.40243	0.33315	261	2.04	1.32032	1.09300
262	.619	0.40190	0.33287	262	2.03	1.31855	1.09211
263	.617	0.40136	0.33260	263	2.02	1.31679	1.09122
264	.615	0.40082	0.33233	264	2.02	1.31504	1.09034
265	.613 x	0.40029	0.33207	265	2.01 x	1.31329	1.08945
266	.612	0.39976	0.33180	266	2.01	1.31155	1.08858
267	.61	0.39923	0.33153	267	2	1.30982	1.08770
268	.608	0.39871	0.33127	268	2	1.30810	1.08683
269	.606	0.39818	0.33100	269	1.99	1.30638	1.08596
270	.605 x	0.39766	0.33074	270	1.98 x	1.30467	1.08509

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Schneider ALPA Apo Helvetar - AAH 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	0.75215	0.48409	0	∞	XX	2.46769	1.58821
1	130	XX	0.74941	0.48329	1	426	XX	2.45870	1.58560
2	65	XX	0.74670	0.48250	2	213	XX	2.44979	1.58299
3	43.4	XX	0.74401	0.48171	3	142	XX	2.44096	1.58040
4	32.6	XX	0.74134	0.48092	4	107	XX	2.43222	1.57783
5	26.1	X	0.73870	0.48014	5	85.6	X	2.42355	1.57526
6	21.8		0.73608	0.47936	6	71.4		2.41497	1.57271
7	18.7		0.73349	0.47859	7	61.3		2.40646	1.57018
8	16.4		0.73092	0.47782	8	53.7		2.39803	1.56765
9	14.6		0.72837	0.47706	9	47.8		2.38967	1.56514
10	13.1	X	0.72585	0.47629	10	43.1	X	2.38139	1.56265
11	11.9		0.72335	0.47554	11	39.2		2.37318	1.56016
12	11		0.72087	0.47478	12	36		2.36505	1.55769
13	10.1		0.71841	0.47403	13	33.2		2.35699	1.55523
14	9.41		0.71597	0.47329	14	30.9		2.34899	1.55278
15	8.8	X	0.71356	0.47255	15	28.9	X	2.34107	1.55035
16	8.26		0.71117	0.47181	16	27.1		2.33322	1.54792
17	7.78		0.70879	0.47107	17	25.5		2.32544	1.54551
18	7.35		0.70644	0.47034	18	24.1		2.31772	1.54311
19	6.98		0.70411	0.46961	19	22.9		2.31007	1.54073
20	6.63	X	0.70180	0.46889	20	21.8	X	2.30248	1.53835
21	6.33		0.69950	0.46817	21	20.8		2.29496	1.53599
22	6.04		0.69723	0.46745	22	19.8		2.28751	1.53364
23	5.79		0.69498	0.46674	23	19		2.28011	1.53130
24	5.55		0.69274	0.46603	24	18.2		2.27278	1.52897
25	5.34	X	0.69053	0.46532	25	17.5	X	2.26551	1.52665
26	5.14		0.68833	0.46462	26	16.9		2.25830	1.52435
27	4.95		0.68615	0.46392	27	16.2		2.25116	1.52205
28	4.78		0.68399	0.46323	28	15.7		2.24407	1.51977
29	4.62		0.68185	0.46253	29	15.2		2.23704	1.51750
30	4.47	X	0.67972	0.46185	30	14.7	X	2.23006	1.51524
31	4.33		0.67762	0.46116	31	14.2		2.22315	1.51299
32	4.2		0.67553	0.46048	32	13.8		2.21629	1.51075
33	4.08		0.67345	0.45980	33	13.4		2.20949	1.50852
34	3.96		0.67140	0.45912	34	13		2.20274	1.50631
35	3.85	X	0.66935	0.45845	35	12.6	X	2.19605	1.50410

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Schneider ALPA Apo Helvetar - AAH 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	3.75	0.66733	0.45778	36	12.3	2.18941	1.50191
37	3.65	0.66532	0.45712	37	12	2.18282	1.49972
38	3.56	0.66333	0.45645	38	11.7	2.17629	1.49755
39	3.47	0.66136	0.45579	39	11.4	2.16981	1.49538
40	3.39 x	0.65940	0.45514	40	11.1 x	2.16337	1.49323
41	3.31	0.65745	0.45448	41	10.9	2.15700	1.49109
42	3.24	0.65552	0.45383	42	10.6	2.15067	1.48895
43	3.16	0.65361	0.45319	43	10.4	2.14439	1.48683
44	3.1	0.65171	0.45254	44	10.2	2.13816	1.48472
45	3.03 x	0.64983	0.45190	45	9.94 x	2.13197	1.48262
46	2.97	0.64796	0.45126	46	9.74	2.12584	1.48052
47	2.91	0.64610	0.45063	47	9.54	2.11975	1.47844
48	2.85	0.64426	0.45000	48	9.35	2.11371	1.47637
49	2.79	0.64243	0.44937	49	9.17	2.10772	1.47430
50	2.74 x	0.64062	0.44874	50	9 x	2.10177	1.47225
51	2.69	0.63882	0.44812	51	8.83	2.09587	1.47020
52	2.64	0.63703	0.44750	52	8.67	2.09001	1.46817
53	2.6	0.63526	0.44688	53	8.51	2.08419	1.46614
54	2.55	0.63350	0.44627	54	8.37	2.07842	1.46413
55	2.51 x	0.63176	0.44565	55	8.22 x	2.07270	1.46212
56	2.46	0.63002	0.44505	56	8.08	2.06701	1.46012
57	2.42	0.62831	0.44444	57	7.95	2.06137	1.45814
58	2.38	0.62660	0.44384	58	7.82	2.05577	1.45616
59	2.35	0.62490	0.44324	59	7.7	2.05021	1.45419
60	2.31 x	0.62322	0.44264	60	7.58 x	2.04469	1.45223
61	2.27	0.62155	0.44204	61	7.46	2.03921	1.45028
62	2.24	0.61990	0.44145	62	7.35	2.03378	1.44833
63	2.21	0.61825	0.44086	63	7.24	2.02838	1.44640
64	2.17	0.61662	0.44028	64	7.13	2.02302	1.44447
65	2.14 x	0.61500	0.43969	65	7.03 x	2.01770	1.44256
66	2.11	0.61339	0.43911	66	6.93	2.01242	1.44065
67	2.08	0.61179	0.43853	67	6.84	2.00718	1.43875
68	2.06	0.61020	0.43795	68	6.74	2.00197	1.43686
69	2.03	0.60863	0.43738	69	6.65	1.99680	1.43498
70	2 x	0.60706	0.43681	70	6.57 x	1.99167	1.43310
71	1.97	0.60551	0.43624	71	6.48	1.98658	1.43124

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Schneider ALPA Apo Helvetar - AAH 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	1.95	0.60397	0.43568	72	6.4	1.98152	1.42938
73	1.92	0.60243	0.43511	73	6.32	1.97649	1.42753
74	1.9	0.60091	0.43455	74	6.24	1.97150	1.42569
75	1.88 x	0.59940	0.43399	75	6.16 x	1.96655	1.42386
76	1.85	0.59791	0.43344	76	6.09	1.96163	1.42204
77	1.83	0.59642	0.43288	77	6.01	1.95675	1.42022
78	1.81	0.59494	0.43233	78	5.94	1.95190	1.41841
79	1.79	0.59347	0.43178	79	5.87	1.94708	1.41661
80	1.77 x	0.59201	0.43124	80	5.81 x	1.94229	1.41482
81	1.75	0.59056	0.43069	81	5.74	1.93754	1.41304
82	1.73	0.58912	0.43015	82	5.68	1.93282	1.41126
83	1.71	0.58770	0.42961	83	5.61	1.92814	1.40949
84	1.69	0.58628	0.42908	84	5.55	1.92348	1.40773
85	1.67 x	0.58487	0.42854	85	5.49 x	1.91886	1.40598
86	1.66	0.58347	0.42801	86	5.44	1.91427	1.40424
87	1.64	0.58208	0.42748	87	5.38	1.90971	1.40250
88	1.62	0.58070	0.42695	88	5.32	1.90517	1.40077
89	1.61	0.57933	0.42643	89	5.27	1.90067	1.39905
90	1.59 x	0.57796	0.42591	90	5.22 x	1.89620	1.39733
91	1.57	0.57661	0.42539	91	5.16	1.89176	1.39562
92	1.56	0.57526	0.42487	92	5.11	1.88735	1.39392
93	1.54	0.57393	0.42435	93	5.06	1.88297	1.39223
94	1.53	0.57260	0.42384	94	5.01	1.87862	1.39055
95	1.51 x	0.57128	0.42333	95	4.97 x	1.87429	1.38887
96	1.5	0.56997	0.42282	96	4.92	1.87000	1.38720
97	1.49	0.56867	0.42231	97	4.87	1.86573	1.38553
98	1.47	0.56738	0.42181	98	4.83	1.86149	1.38387
99	1.46	0.56610	0.42130	99	4.79	1.85727	1.38223
100	1.45 x	0.56482	0.42080	100	4.74 x	1.85309	1.38058
101	1.43	0.56355	0.42030	101	4.7	1.84893	1.37895
102	1.42	0.56229	0.41981	102	4.66	1.84480	1.37732
103	1.41	0.56104	0.41931	103	4.62	1.84069	1.37570
104	1.4	0.55980	0.41882	104	4.58	1.83661	1.37408
105	1.38 x	0.55856	0.41833	105	4.54 x	1.83256	1.37247
106	1.37	0.55734	0.41784	106	4.5	1.82853	1.37087
107	1.36	0.55612	0.41736	107	4.47	1.82453	1.36928

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Schneider ALPA Apo Helvetar - AAH 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	1.35	0.55490	0.41687	108	4.43	1.82055	1.36769
109	1.34	0.55370	0.41639	109	4.39	1.81660	1.36611
110	1.33 x	0.55250	0.41591	110	4.36 x	1.81267	1.36453
111	1.32	0.55131	0.41543	111	4.32	1.80877	1.36296
112	1.31	0.55013	0.41495	112	4.29	1.80489	1.36140
113	1.3	0.54896	0.41448	113	4.25	1.80104	1.35985
114	1.29	0.54779	0.41401	114	4.22	1.79721	1.35830
115	1.28 x	0.54663	0.41354	115	4.19 x	1.79340	1.35675
116	1.27	0.54548	0.41307	116	4.16	1.78962	1.35522
117	1.26	0.54433	0.41260	117	4.13	1.78586	1.35369
118	1.25	0.54319	0.41214	118	4.1	1.78212	1.35217
119	1.24	0.54206	0.41168	119	4.07	1.77841	1.35065
120	1.23 x	0.54093	0.41122	120	4.04 x	1.77472	1.34914
121	1.22	0.53982	0.41076	121	4.01	1.77105	1.34763
122	1.21	0.53870	0.41030	122	3.98	1.76740	1.34613
123	1.2	0.53760	0.40985	123	3.95	1.76378	1.34464
124	1.2	0.53650	0.40939	124	3.92	1.76018	1.34316
125	1.19 x	0.53541	0.40894	125	3.89 x	1.75660	1.34167
126	1.18	0.53433	0.40849	126	3.87	1.75304	1.34020
127	1.17	0.53325	0.40805	127	3.84	1.74950	1.33873
128	1.16	0.53218	0.40760	128	3.81	1.74598	1.33727
129	1.15	0.53111	0.40716	129	3.79	1.74249	1.33581
130	1.15 x	0.53005	0.40671	130	3.76 x	1.73901	1.33436
131	1.14	0.52900	0.40627	131	3.74	1.73556	1.33292
132	1.13	0.52795	0.40584	132	3.71	1.73212	1.33148
133	1.12	0.52691	0.40540	133	3.69	1.72871	1.33005
134	1.12	0.52588	0.40496	134	3.67	1.72531	1.32862
135	1.11 x	0.52485	0.40453	135	3.64 x	1.72194	1.32720
136	1.1	0.52382	0.40410	136	3.62	1.71859	1.32578
137	1.1	0.52281	0.40367	137	3.6	1.71525	1.32437
138	1.09	0.52180	0.40324	138	3.57	1.71193	1.32297
139	1.08	0.52079	0.40281	139	3.55	1.70864	1.32157
140	1.08 x	0.51979	0.40239	140	3.53 x	1.70536	1.32017
141	1.07	0.51880	0.40197	141	3.51	1.70210	1.31879
142	1.06	0.51781	0.40154	142	3.49	1.69886	1.31740
143	1.06	0.51683	0.40113	143	3.47	1.69564	1.31603

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Schneider ALPA Apo Helvetar - AAH 60

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	1.05	0.51586	0.40071	144	3.45	1.69244	1.31466
145	1.04 x	0.51488	0.40029	145	3.43 x	1.68925	1.31329
146	1.04	0.51392	0.39988	146	3.41	1.68609	1.31193
147	1.03	0.51296	0.39946	147	3.39	1.68294	1.31057
148	1.03	0.51201	0.39905	148	3.37	1.67981	1.30922
149	1.02	0.51106	0.39864	149	3.35	1.67669	1.30788
150	1.01 x	0.51011	0.39823	150	3.33 x	1.67360	1.30654
151	1.01	0.50917	0.39783	151	3.31	1.67052	1.30520
152	1	0.50824	0.39742	152	3.29	1.66746	1.30388
153	.998	0.50731	0.39702	153	3.27	1.66442	1.30255
154	.992	0.50639	0.39662	154	3.26	1.66139	1.30123
155	.987 x	0.50547	0.39622	155	3.24 x	1.65838	1.29992
156	.982	0.50456	0.39582	156	3.22	1.65538	1.29861
157	.976	0.50365	0.39542	157	3.2	1.65241	1.29731
158	.971	0.50275	0.39502	158	3.19	1.64945	1.29601
159	.966	0.50185	0.39463	159	3.17	1.64650	1.29472
160	.961 x	0.50096	0.39424	160	3.15 x	1.64357	1.29343
161	.956	0.50007	0.39385	161	3.14	1.64066	1.29214
162	.951	0.49919	0.39346	162	3.12	1.63777	1.29086
163	.946	0.49831	0.39307	163	3.1	1.63489	1.28959
164	.941	0.49744	0.39268	164	3.09	1.63202	1.28832
165	.936 x	0.49657	0.39230	165	3.07 x	1.62917	1.28706
166	.932	0.49571	0.39191	166	3.06	1.62634	1.28580
167	.927	0.49485	0.39153	167	3.04	1.62352	1.28454
168	.922	0.49399	0.39115	168	3.03	1.62072	1.28330
169	.918	0.49314	0.39077	169	3.01	1.61793	1.28205
170	.913 x	0.49230	0.39039	170	3 x	1.61515	1.28081
171	.909	0.49146	0.39001	171	2.98	1.61239	1.27957
172	.905	0.49062	0.38964	172	2.97	1.60965	1.27834
173	.9	0.48979	0.38927	173	2.95	1.60692	1.27712
174	.896	0.48896	0.38889	174	2.94	1.60421	1.27590
175	.892 x	0.48814	0.38852	175	2.93 x	1.60151	1.27468
176	.888	0.48732	0.38815	176	2.91	1.59882	1.27347
177	.883	0.48651	0.38778	177	2.9	1.59615	1.27226
178	.879	0.48570	0.38742	178	2.88	1.59349	1.27106
179	.875	0.48489	0.38705	179	2.87	1.59084	1.26986

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Schneider ALPA Apo Helvetar - AAH 60

 Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.871 x	0.48409	0.38669	180	2.86 x	1.58821	1.26866
181	.867	0.48329	0.38633	181	2.85	1.58560	1.26747
182	.863	0.48250	0.38596	182	2.83	1.58299	1.26629
183	.86	0.48171	0.38560	183	2.82	1.58040	1.26511
184	.856	0.48092	0.38525	184	2.81	1.57783	1.26393
185	.852 x	0.48014	0.38489	185	2.8 x	1.57526	1.26276
186	.848	0.47936	0.38453	186	2.78	1.57271	1.26159
187	.845	0.47859	0.38418	187	2.77	1.57018	1.26043
188	.841	0.47782	0.38382	188	2.76	1.56765	1.25927
189	.837	0.47706	0.38347	189	2.75	1.56514	1.25811
190	.834 x	0.47629	0.38312	190	2.74 x	1.56265	1.25696
191	.83	0.47554	0.38277	191	2.72	1.56016	1.25582
192	.827	0.47478	0.38242	192	2.71	1.55769	1.25467
193	.823	0.47403	0.38208	193	2.7	1.55523	1.25354
194	.82	0.47329	0.38173	194	2.69	1.55278	1.25240
195	.816 x	0.47255	0.38139	195	2.68 x	1.55035	1.25127
196	.813	0.47181	0.38104	196	2.67	1.54792	1.25015
197	.81	0.47107	0.38070	197	2.66	1.54551	1.24902
198	.806	0.47034	0.38036	198	2.65	1.54311	1.24791
199	.803	0.46961	0.38002	199	2.63	1.54073	1.24679
200	.8 x	0.46889	0.37968	200	2.62 x	1.53835	1.24568
201	.797	0.46817	0.37935	201	2.61	1.53599	1.24458
202	.793	0.46745	0.37901	202	2.6	1.53364	1.24348
203	.79	0.46674	0.37868	203	2.59	1.53130	1.24238
204	.787	0.46603	0.37834	204	2.58	1.52897	1.24129
205	.784 x	0.46532	0.37801	205	2.57 x	1.52665	1.24020
206	.781	0.46462	0.37768	206	2.56	1.52435	1.23911
207	.778	0.46392	0.37735	207	2.55	1.52205	1.23803
208	.775	0.46323	0.37702	208	2.54	1.51977	1.23695
209	.772	0.46253	0.37670	209	2.53	1.51750	1.23588
210	.769 x	0.46185	0.37637	210	2.52 x	1.51524	1.23481
211	.766	0.46116	0.37604	211	2.51	1.51299	1.23374
212	.763	0.46048	0.37572	212	2.5	1.51075	1.23268
213	.761	0.45980	0.37540	213	2.5	1.50852	1.23162
214	.758	0.45912	0.37508	214	2.49	1.50631	1.23057
215	.755 x	0.45845	0.37476	215	2.48 x	1.50410	1.22952

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Schneider ALPA Apo Helvetar - AAH 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.752	0.45778	0.37444	216	2.47	1.50191	1.22847
217	.749	0.45712	0.37412	217	2.46	1.49972	1.22742
218	.747	0.45645	0.37380	218	2.45	1.49755	1.22638
219	.744	0.45579	0.37349	219	2.44	1.49538	1.22535
220	.741 x	0.45514	0.37317	220	2.43 x	1.49323	1.22432
221	.739	0.45448	0.37286	221	2.42	1.49109	1.22329
222	.736	0.45383	0.37255	222	2.41	1.48895	1.22226
223	.733	0.45319	0.37223	223	2.41	1.48683	1.22124
224	.731	0.45254	0.37192	224	2.4	1.48472	1.22022
225	.728 x	0.45190	0.37161	225	2.39 x	1.48262	1.21921
226	.726	0.45126	0.37131	226	2.38	1.48052	1.21820
227	.723	0.45063	0.37100	227	2.37	1.47844	1.21719
228	.721	0.45000	0.37069	228	2.37	1.47637	1.21618
229	.718	0.44937	0.37039	229	2.36	1.47430	1.21518
230	.716 x	0.44874	0.37008	230	2.35 x	1.47225	1.21419
231	.714	0.44812	0.36978	231	2.34	1.47020	1.21319
232	.711	0.44750	0.36948	232	2.33	1.46817	1.21220
233	.709	0.44688	0.36918	233	2.33	1.46614	1.21122
234	.706	0.44627	0.36888	234	2.32	1.46413	1.21023
235	.704 x	0.44565	0.36858	235	2.31 x	1.46212	1.20925
236	.702	0.44505	0.36828	236	2.3	1.46012	1.20828
237	.7	0.44444	0.36799	237	2.29	1.45814	1.20730
238	.697	0.44384	0.36769	238	2.29	1.45616	1.20633
239	.695	0.44324	0.36740	239	2.28	1.45419	1.20537
240	.693 x	0.44264	0.36710	240	2.27 x	1.45223	1.20441
241	.691	0.44204	0.36681	241	2.27	1.45028	1.20345
242	.688	0.44145	0.36652	242	2.26	1.44833	1.20249
243	.686	0.44086	0.36623	243	2.25	1.44640	1.20154
244	.684	0.44028	0.36594	244	2.24	1.44447	1.20059
245	.682 x	0.43969	0.36565	245	2.24 x	1.44256	1.19964
246	.68	0.43911	0.36536	246	2.23	1.44065	1.19870
247	.678	0.43853	0.36508	247	2.22	1.43875	1.19776
248	.676	0.43795	0.36479	248	2.22	1.43686	1.19682
249	.673	0.43738	0.36451	249	2.21	1.43498	1.19589
250	.671 x	0.43681	0.36422	250	2.2 x	1.43310	1.19495
251	.669	0.43624	0.36394	251	2.2	1.43124	1.19403

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Schneider ALPA Apo Helvetar - AAH 60

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.667	0.43568	0.36366	252	2.19	1.42938	1.19310
253	.665	0.43511	0.36338	253	2.18	1.42753	1.19218
254	.663	0.43455	0.36310	254	2.18	1.42569	1.19126
255	.661 x	0.43399	0.36282	255	2.17 x	1.42386	1.19035
256	.659	0.43344	0.36254	256	2.16	1.42204	1.18944
257	.657	0.43288	0.36226	257	2.16	1.42022	1.18853
258	.656	0.43233	0.36199	258	2.15	1.41841	1.18762
259	.654	0.43178	0.36171	259	2.14	1.41661	1.18672
260	.652 x	0.43124	0.36144	260	2.14 x	1.41482	1.18582
261	.65	0.43069	0.36116	261	2.13	1.41304	1.18492
262	.648	0.43015	0.36089	262	2.13	1.41126	1.18403
263	.646	0.42961	0.36062	263	2.12	1.40949	1.18314
264	.644	0.42908	0.36035	264	2.11	1.40773	1.18225
265	.642 x	0.42854	0.36008	265	2.11 x	1.40598	1.18137
266	.641	0.42801	0.35981	266	2.1	1.40424	1.18048
267	.639	0.42748	0.35954	267	2.1	1.40250	1.17961
268	.637	0.42695	0.35928	268	2.09	1.40077	1.17873
269	.635	0.42643	0.35901	269	2.08	1.39905	1.17786
270	.634 x	0.42591	0.35875	270	2.08 x	1.39733	1.17699

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Schneider Super-Angulon - SSA 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.04482	0.65731	0	∞	XX	3.42789	2.15653
1	187	XX	1.04087	0.65615	1	613	XX	3.41492	2.15273
2	93.4	XX	1.03695	0.65500	2	307	XX	3.40208	2.14895
3	62.3	XX	1.03307	0.65385	3	205	XX	3.38935	2.14519
4	46.8	XX	1.02923	0.65271	4	154	XX	3.37674	2.14144
5	37.5	X	1.02542	0.65158	5	123	X	3.36425	2.13772
6	31.3		1.02165	0.65045	6	103		3.35186	2.13401
7	26.8		1.01791	0.64932	7	88		3.33959	2.13033
8	23.5		1.01420	0.64821	8	77.1		3.32744	2.12666
9	20.9		1.01053	0.64709	9	68.6		3.31538	2.12301
10	18.8	X	1.00689	0.64599	10	61.8	X	3.30344	2.11938
11	17.1		1.00328	0.64489	11	56.2		3.29160	2.11577
12	15.7		0.99970	0.64379	12	51.6		3.27987	2.11218
13	14.5		0.99616	0.64270	13	47.6		3.26824	2.10860
14	13.5		0.99265	0.64162	14	44.3		3.25672	2.10504
15	12.6	X	0.98916	0.64054	15	41.4	X	3.24529	2.10150
16	11.8		0.98571	0.63946	16	38.8		3.23396	2.09798
17	11.1		0.98229	0.63840	17	36.6		3.22273	2.09447
18	10.5		0.97890	0.63733	18	34.6		3.21160	2.09098
19	9.99		0.97553	0.63627	19	32.8		3.20056	2.08751
20	9.5	X	0.97220	0.63522	20	31.2	X	3.18962	2.08406
21	9.06		0.96889	0.63417	21	29.7		3.17877	2.08062
22	8.65		0.96561	0.63313	22	28.4		3.16801	2.07720
23	8.29		0.96236	0.63209	23	27.2		3.15734	2.07380
24	7.95		0.95913	0.63106	24	26.1		3.14677	2.07042
25	7.64	X	0.95594	0.63004	25	25.1	X	3.13628	2.06705
26	7.35		0.95277	0.62901	26	24.1		3.12588	2.06369
27	7.08		0.94962	0.62800	27	23.2		3.11556	2.06036
28	6.84		0.94651	0.62698	28	22.4		3.10533	2.05703
29	6.61		0.94341	0.62598	29	21.7		3.09519	2.05373
30	6.39	X	0.94035	0.62497	30	21	X	3.08512	2.05044
31	6.19		0.93730	0.62398	31	20.3		3.07514	2.04717
32	6		0.93429	0.62298	32	19.7		3.06525	2.04391
33	5.83		0.93129	0.62200	33	19.1		3.05543	2.04067
34	5.66		0.92833	0.62101	34	18.6		3.04569	2.03744
35	5.51	X	0.92538	0.62003	35	18.1	X	3.03603	2.03423

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Schneider Super-Angulon - SSA 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	5.36	0.92246	0.61906	36	17.6	3.02644	2.03104
37	5.22	0.91956	0.61809	37	17.1	3.01694	2.02786
38	5.08	0.91669	0.61713	38	16.7	3.00751	2.02469
39	4.96	0.91384	0.61617	39	16.3	2.99815	2.02154
40	4.84 x	0.91101	0.61521	40	15.9 x	2.98887	2.01841
41	4.73	0.90820	0.61426	41	15.5	2.97966	2.01529
42	4.62	0.90541	0.61331	42	15.1	2.97052	2.01218
43	4.51	0.90265	0.61237	43	14.8	2.96145	2.00909
44	4.42	0.89991	0.61143	44	14.5	2.95245	2.00601
45	4.32 x	0.89719	0.61050	45	14.2 x	2.94353	2.00295
46	4.23	0.89449	0.60957	46	13.9	2.93467	1.99990
47	4.15	0.89181	0.60864	47	13.6	2.92588	1.99687
48	4.06	0.88915	0.60772	48	13.3	2.91716	1.99385
49	3.98	0.88651	0.60681	49	13.1	2.90850	1.99084
50	3.91 x	0.88389	0.60590	50	12.8 x	2.89991	1.98785
51	3.83	0.88129	0.60499	51	12.6	2.89139	1.98487
52	3.76	0.87872	0.60408	52	12.3	2.88293	1.98190
53	3.7	0.87616	0.60318	53	12.1	2.87453	1.97895
54	3.63	0.87362	0.60229	54	11.9	2.86619	1.97602
55	3.57 x	0.87109	0.60140	55	11.7 x	2.85792	1.97309
56	3.51	0.86859	0.60051	56	11.5	2.84971	1.97018
57	3.45	0.86611	0.59963	57	11.3	2.84156	1.96728
58	3.39	0.86364	0.59875	58	11.1	2.83347	1.96440
59	3.34	0.86119	0.59787	59	11	2.82544	1.96153
60	3.29 x	0.85876	0.59700	60	10.8 x	2.81747	1.95867
61	3.23	0.85635	0.59614	61	10.6	2.80956	1.95582
62	3.19	0.85396	0.59527	62	10.5	2.80170	1.95299
63	3.14	0.85158	0.59441	63	10.3	2.79390	1.95017
64	3.09	0.84922	0.59356	64	10.1	2.78616	1.94736
65	3.05 x	0.84688	0.59270	65	10 x	2.77847	1.94457
66	3	0.84455	0.59186	66	9.85	2.77084	1.94179
67	2.96	0.84224	0.59101	67	9.71	2.76327	1.93902
68	2.92	0.83995	0.59017	68	9.58	2.75574	1.93626
69	2.88	0.83767	0.58934	69	9.45	2.74827	1.93352
70	2.84 x	0.83541	0.58850	70	9.32 x	2.74086	1.93078
71	2.8	0.83317	0.58767	71	9.2	2.73349	1.92806

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Schneider Super-Angulon - SSA 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	2.77	0.83094	0.58685	72	9.08	2.72618	1.92535
73	2.73	0.82873	0.58603	73	8.96	2.71892	1.92266
74	2.7	0.82653	0.58521	74	8.85	2.71171	1.91997
75	2.66 x	0.82435	0.58439	75	8.74 x	2.70455	1.91730
76	2.63	0.82218	0.58358	76	8.63	2.69744	1.91464
77	2.6	0.82003	0.58277	77	8.53	2.69038	1.91199
78	2.57	0.81789	0.58197	78	8.43	2.68336	1.90935
79	2.54	0.81577	0.58117	79	8.33	2.67640	1.90672
80	2.51 x	0.81366	0.58037	80	8.23 x	2.66948	1.90411
81	2.48	0.81156	0.57958	81	8.14	2.66261	1.90150
82	2.45	0.80948	0.57879	82	8.05	2.65579	1.89891
83	2.42	0.80742	0.57800	83	7.96	2.64901	1.89633
84	2.4	0.80537	0.57722	84	7.87	2.64228	1.89376
85	2.37 x	0.80333	0.57644	85	7.78 x	2.63560	1.89120
86	2.35	0.80131	0.57566	86	7.7	2.62896	1.88865
87	2.32	0.79930	0.57489	87	7.62	2.62236	1.88611
88	2.3	0.79730	0.57412	88	7.54	2.61581	1.88359
89	2.27	0.79531	0.57335	89	7.46	2.60930	1.88107
90	2.25 x	0.79334	0.57259	90	7.38 x	2.60283	1.87857
91	2.23	0.79139	0.57183	91	7.31	2.59641	1.87607
92	2.21	0.78944	0.57107	92	7.24	2.59003	1.87359
93	2.18	0.78751	0.57032	93	7.16	2.58369	1.87111
94	2.16	0.78559	0.56956	94	7.09	2.57739	1.86865
95	2.14 x	0.78368	0.56882	95	7.03 x	2.57114	1.86620
96	2.12	0.78179	0.56807	96	6.96	2.56492	1.86376
97	2.1	0.77991	0.56733	97	6.89	2.55875	1.86132
98	2.08	0.77804	0.56659	98	6.83	2.55261	1.85890
99	2.06	0.77618	0.56586	99	6.77	2.54652	1.85649
100	2.04 x	0.77433	0.56513	100	6.7 x	2.54046	1.85409
101	2.02	0.77250	0.56440	101	6.64	2.53444	1.85170
102	2.01	0.77068	0.56367	102	6.58	2.52846	1.84932
103	1.99	0.76886	0.56295	103	6.53	2.52252	1.84695
104	1.97	0.76706	0.56223	104	6.47	2.51662	1.84459
105	1.95 x	0.76528	0.56151	105	6.41 x	2.51075	1.84223
106	1.94	0.76350	0.56080	106	6.36	2.50492	1.83989
107	1.92	0.76173	0.56009	107	6.3	2.49913	1.83756

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Schneider Super-Angulon - SSA 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	1.91	0.75998	0.55938	108	6.25	2.49337	1.83524
109	1.89	0.75824	0.55867	109	6.2	2.48765	1.83292
110	1.87 x	0.75650	0.55797	110	6.15 x	2.48197	1.83062
111	1.86	0.75478	0.55727	111	6.1	2.47632	1.82833
112	1.84	0.75307	0.55658	112	6.05	2.47070	1.82604
113	1.83	0.75137	0.55588	113	6	2.46512	1.82376
114	1.81	0.74968	0.55519	114	5.95	2.45958	1.82150
115	1.8 x	0.74800	0.55450	115	5.91 x	2.45407	1.81924
116	1.79	0.74633	0.55382	116	5.86	2.44859	1.81699
117	1.77	0.74467	0.55314	117	5.82	2.44315	1.81476
118	1.76	0.74302	0.55246	118	5.77	2.43774	1.81253
119	1.75	0.74138	0.55178	119	5.73	2.43236	1.81030
120	1.73 x	0.73975	0.55111	120	5.69 x	2.42701	1.80809
121	1.72	0.73813	0.55044	121	5.64	2.42170	1.80589
122	1.71	0.73652	0.54977	122	5.6	2.41642	1.80370
123	1.7	0.73492	0.54910	123	5.56	2.41117	1.80151
124	1.68	0.73333	0.54844	124	5.52	2.40595	1.79934
125	1.67 x	0.73175	0.54778	125	5.48 x	2.40076	1.79717
126	1.66	0.73018	0.54712	126	5.44	2.39561	1.79501
127	1.65	0.72862	0.54646	127	5.41	2.39048	1.79286
128	1.64	0.72707	0.54581	128	5.37	2.38539	1.79072
129	1.62	0.72552	0.54516	129	5.33	2.38032	1.78858
130	1.61 x	0.72399	0.54451	130	5.29 x	2.37529	1.78646
131	1.6	0.72246	0.54387	131	5.26	2.37028	1.78434
132	1.59	0.72094	0.54322	132	5.22	2.36530	1.78223
133	1.58	0.71944	0.54258	133	5.19	2.36036	1.78013
134	1.57	0.71794	0.54195	134	5.15	2.35544	1.77804
135	1.56 x	0.71645	0.54131	135	5.12 x	2.35055	1.77596
136	1.55	0.71497	0.54068	136	5.09	2.34569	1.77388
137	1.54	0.71349	0.54005	137	5.05	2.34085	1.77182
138	1.53	0.71203	0.53942	138	5.02	2.33605	1.76976
139	1.52	0.71057	0.53880	139	4.99	2.33127	1.76771
140	1.51 x	0.70912	0.53817	140	4.96 x	2.32652	1.76566
141	1.5	0.70768	0.53755	141	4.93	2.32179	1.76363
142	1.49	0.70625	0.53694	142	4.9	2.31710	1.76160
143	1.48	0.70483	0.53632	143	4.87	2.31243	1.75958

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 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	1.47	0.70341	0.53571	144	4.84	2.30778	1.75757
145	1.47 x	0.70200	0.53510	145	4.81 x	2.30316	1.75557
146	1.46	0.70061	0.53449	146	4.78	2.29857	1.75357
147	1.45	0.69921	0.53388	147	4.75	2.29401	1.75158
148	1.44	0.69783	0.53328	148	4.72	2.28947	1.74960
149	1.43	0.69645	0.53268	149	4.7	2.28495	1.74763
150	1.42 x	0.69509	0.53208	150	4.67 x	2.28046	1.74567
151	1.41	0.69372	0.53148	151	4.64	2.27600	1.74371
152	1.41	0.69237	0.53089	152	4.61	2.27156	1.74176
153	1.4	0.69103	0.53030	153	4.59	2.26714	1.73981
154	1.39	0.68969	0.52971	154	4.56	2.26275	1.73788
155	1.38 x	0.68836	0.52912	155	4.54 x	2.25839	1.73595
156	1.38	0.68703	0.52853	156	4.51	2.25404	1.73403
157	1.37	0.68572	0.52795	157	4.49	2.24972	1.73212
158	1.36	0.68441	0.52737	158	4.46	2.24543	1.73021
159	1.35	0.68310	0.52679	159	4.44	2.24116	1.72831
160	1.35 x	0.68181	0.52621	160	4.41 x	2.23691	1.72642
161	1.34	0.68052	0.52564	161	4.39	2.23268	1.72453
162	1.33	0.67924	0.52507	162	4.37	2.22848	1.72266
163	1.32	0.67797	0.52450	163	4.34	2.22430	1.72079
164	1.32	0.67670	0.52393	164	4.32	2.22014	1.71892
165	1.31 x	0.67544	0.52336	165	4.3 x	2.21600	1.71707
166	1.3	0.67418	0.52280	166	4.28	2.21189	1.71522
167	1.3	0.67294	0.52224	167	4.25	2.20780	1.71337
168	1.29	0.67170	0.52168	168	4.23	2.20373	1.71154
169	1.28	0.67046	0.52112	169	4.21	2.19968	1.70971
170	1.28 x	0.66924	0.52056	170	4.19 x	2.19565	1.70789
171	1.27	0.66801	0.52001	171	4.17	2.19165	1.70607
172	1.26	0.66680	0.51946	172	4.15	2.18766	1.70426
173	1.26	0.66559	0.51891	173	4.13	2.18370	1.70246
174	1.25	0.66439	0.51836	174	4.11	2.17976	1.70066
175	1.25 x	0.66320	0.51782	175	4.09 x	2.17584	1.69887
176	1.24	0.66201	0.51727	176	4.07	2.17194	1.69709
177	1.23	0.66082	0.51673	177	4.05	2.16805	1.69532
178	1.23	0.65965	0.51619	178	4.03	2.16419	1.69355
179	1.22	0.65848	0.51566	179	4.01	2.16035	1.69178

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Schneider Super-Angulon - SSA 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	1.22 x	0.65731	0.51512	180	3.99 x	2.15653	1.69003
181	1.21	0.65615	0.51459	181	3.97	2.15273	1.68828
182	1.21	0.65500	0.51406	182	3.95	2.14895	1.68653
183	1.2	0.65385	0.51353	183	3.94	2.14519	1.68480
184	1.19	0.65271	0.51300	184	3.92	2.14144	1.68306
185	1.19 x	0.65158	0.51247	185	3.9 x	2.13772	1.68134
186	1.18	0.65045	0.51195	186	3.88	2.13401	1.67962
187	1.18	0.64932	0.51143	187	3.86	2.13033	1.67791
188	1.17	0.64821	0.51091	188	3.85	2.12666	1.67620
189	1.17	0.64709	0.51039	189	3.83	2.12301	1.67450
190	1.16 x	0.64599	0.50987	190	3.81 x	2.11938	1.67281
191	1.16	0.64489	0.50936	191	3.8	2.11577	1.67112
192	1.15	0.64379	0.50884	192	3.78	2.11218	1.66944
193	1.15	0.64270	0.50833	193	3.76	2.10860	1.66776
194	1.14	0.64162	0.50783	194	3.75	2.10504	1.66609
195	1.14 x	0.64054	0.50732	195	3.73 x	2.10150	1.66443
196	1.13	0.63946	0.50681	196	3.72	2.09798	1.66277
197	1.13	0.63840	0.50631	197	3.7	2.09447	1.66112
198	1.12	0.63733	0.50581	198	3.68	2.09098	1.65947
199	1.12	0.63627	0.50531	199	3.67	2.08751	1.65783
200	1.11 x	0.63522	0.50481	200	3.65 x	2.08406	1.65620
201	1.11	0.63417	0.50431	201	3.64	2.08062	1.65457
202	1.1	0.63313	0.50382	202	3.62	2.07720	1.65295
203	1.1	0.63209	0.50333	203	3.61	2.07380	1.65133
204	1.1	0.63106	0.50283	204	3.59	2.07042	1.64972
205	1.09 x	0.63004	0.50234	205	3.58 x	2.06705	1.64811
206	1.09	0.62901	0.50186	206	3.56	2.06369	1.64651
207	1.08	0.62800	0.50137	207	3.55	2.06036	1.64492
208	1.08	0.62698	0.50089	208	3.54	2.05703	1.64333
209	1.07	0.62598	0.50040	209	3.52	2.05373	1.64174
210	1.07 x	0.62497	0.49992	210	3.51 x	2.05044	1.64017
211	1.07	0.62398	0.49944	211	3.49	2.04717	1.63859
212	1.06	0.62298	0.49897	212	3.48	2.04391	1.63703
213	1.06	0.62200	0.49849	213	3.47	2.04067	1.63547
214	1.05	0.62101	0.49802	214	3.45	2.03744	1.63391
215	1.05 x	0.62003	0.49754	215	3.44 x	2.03423	1.63236

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Schneider Super-Angulon - SSA 72

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.04	0.61906	0.49707	216	3.43	2.03104	1.63081
217	1.04	0.61809	0.49660	217	3.41	2.02786	1.62927
218	1.04	0.61713	0.49613	218	3.4	2.02469	1.62774
219	1.03	0.61617	0.49567	219	3.39	2.02154	1.62621
220	1.03 x	0.61521	0.49520	220	3.38 x	2.01841	1.62468
221	1.03	0.61426	0.49474	221	3.36	2.01529	1.62317
222	1.02	0.61331	0.49428	222	3.35	2.01218	1.62165
223	1.02	0.61237	0.49382	223	3.34	2.00909	1.62014
224	1.01	0.61143	0.49336	224	3.33	2.00601	1.61864
225	1.01 x	0.61050	0.49290	225	3.32 x	2.00295	1.61714
226	1.01	0.60957	0.49245	226	3.3	1.99990	1.61565
227	1	0.60864	0.49200	227	3.29	1.99687	1.61416
228	1	0.60772	0.49154	228	3.28	1.99385	1.61268
229	.996	0.60681	0.49109	229	3.27	1.99084	1.61120
230	.993 x	0.60590	0.49064	230	3.26 x	1.98785	1.60973
231	.989	0.60499	0.49020	231	3.25	1.98487	1.60826
232	.986	0.60408	0.48975	232	3.23	1.98190	1.60680
233	.982	0.60318	0.48931	233	3.22	1.97895	1.60534
234	.979	0.60229	0.48886	234	3.21	1.97602	1.60388
235	.976 x	0.60140	0.48842	235	3.2 x	1.97309	1.60244
236	.972	0.60051	0.48798	236	3.19	1.97018	1.60099
237	.969	0.59963	0.48754	237	3.18	1.96728	1.59955
238	.966	0.59875	0.48711	238	3.17	1.96440	1.59812
239	.962	0.59787	0.48667	239	3.16	1.96153	1.59669
240	.959 x	0.59700	0.48624	240	3.15 x	1.95867	1.59527
241	.956	0.59614	0.48581	241	3.14	1.95582	1.59385
242	.953	0.59527	0.48537	242	3.13	1.95299	1.59243
243	.95	0.59441	0.48494	243	3.12	1.95017	1.59102
244	.947	0.59356	0.48452	244	3.11	1.94736	1.58962
245	.943 x	0.59270	0.48409	245	3.1 x	1.94457	1.58822
246	.94	0.59186	0.48366	246	3.09	1.94179	1.58682
247	.937	0.59101	0.48324	247	3.08	1.93902	1.58543
248	.934	0.59017	0.48282	248	3.07	1.93626	1.58404
249	.931	0.58934	0.48240	249	3.06	1.93352	1.58266
250	.928 x	0.58850	0.48198	250	3.05 x	1.93078	1.58128
251	.925	0.58767	0.48156	251	3.04	1.92806	1.57991

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Schneider Super-Angulon - SSA 72

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.922	0.58685	0.48114	252	3.03	1.92535	1.57854
253	.92	0.58603	0.48072	253	3.02	1.92266	1.57718
254	.917	0.58521	0.48031	254	3.01	1.91997	1.57582
255	.914 x	0.58439	0.47990	255	3 x	1.91730	1.57446
256	.911	0.58358	0.47949	256	2.99	1.91464	1.57311
257	.908	0.58277	0.47907	257	2.98	1.91199	1.57177
258	.905	0.58197	0.47867	258	2.97	1.90935	1.57043
259	.903	0.58117	0.47826	259	2.96	1.90672	1.56909
260	.9 x	0.58037	0.47785	260	2.95 x	1.90411	1.56776
261	.897	0.57958	0.47745	261	2.94	1.90150	1.56643
262	.894	0.57879	0.47704	262	2.93	1.89891	1.56510
263	.892	0.57800	0.47664	263	2.93	1.89633	1.56378
264	.889	0.57722	0.47624	264	2.92	1.89376	1.56247
265	.887 x	0.57644	0.47584	265	2.91 x	1.89120	1.56116
266	.884	0.57566	0.47544	266	2.9	1.88865	1.55985
267	.881	0.57489	0.47504	267	2.89	1.88611	1.55854
268	.879	0.57412	0.47465	268	2.88	1.88359	1.55725
269	.876	0.57335	0.47425	269	2.87	1.88107	1.55595
270	.874 x	0.57259	0.47386	270	2.87 x	1.87857	1.55466

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Schneider Apo-Digitar - SAD 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.08864	0.66887	0	∞	XX	3.57166	2.19445
1	202	XX	1.08436	0.66761	1	663	XX	3.55762	2.19033
2	101	XX	1.08012	0.66636	2	332	XX	3.54372	2.18623
3	67.4	XX	1.07592	0.66512	3	221	XX	3.52994	2.18215
4	50.6	XX	1.07176	0.66388	4	166	XX	3.51628	2.17809
5	40.5	X	1.06764	0.66265	5	133	X	3.50275	2.17405
6	33.8		1.06355	0.66143	6	111		3.48934	2.17004
7	29		1.05950	0.66021	7	95.1		3.47606	2.16604
8	25.4		1.05549	0.65900	8	83.3		3.46289	2.16206
9	22.6		1.05151	0.65779	9	74.1		3.44984	2.15811
10	20.3	X	1.04757	0.65659	10	66.7	X	3.43691	2.15417
11	18.5		1.04366	0.65540	11	60.7		3.42409	2.15025
12	17		1.03979	0.65421	12	55.7		3.41139	2.14636
13	15.7		1.03595	0.65303	13	51.4		3.39880	2.14248
14	14.6		1.03215	0.65185	14	47.8		3.38631	2.13862
15	13.6	X	1.02838	0.65068	15	44.6	X	3.37394	2.13478
16	12.8		1.02464	0.64952	16	41.9		3.36167	2.13096
17	12		1.02093	0.64836	17	39.4		3.34951	2.12716
18	11.4		1.01726	0.64721	18	37.3		3.33746	2.12338
19	10.8		1.01361	0.64606	19	35.3		3.32551	2.11962
20	10.2	X	1.01000	0.64492	20	33.6	X	3.31366	2.11587
21	9.76		1.00642	0.64378	21	32		3.30191	2.11215
22	9.32		1.00287	0.64265	22	30.6		3.29026	2.10844
23	8.92		0.99935	0.64153	23	29.3		3.27871	2.10475
24	8.56		0.99586	0.64041	24	28.1		3.26725	2.10108
25	8.22	X	0.99240	0.63929	25	27	X	3.25589	2.09742
26	7.91		0.98896	0.63819	26	26		3.24463	2.09379
27	7.62		0.98556	0.63708	27	25		3.23346	2.09017
28	7.36		0.98218	0.63599	28	24.1		3.22238	2.08657
29	7.11		0.97883	0.63489	29	23.3		3.21140	2.08298
30	6.88	X	0.97551	0.63381	30	22.6	X	3.20050	2.07941
31	6.66		0.97222	0.63272	31	21.9		3.18969	2.07586
32	6.46		0.96895	0.63165	32	21.2		3.17897	2.07233
33	6.27		0.96571	0.63058	33	20.6		3.16834	2.06882
34	6.09		0.96249	0.62951	34	20		3.15779	2.06532
35	5.92	X	0.95931	0.62845	35	19.4	X	3.14733	2.06184

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Schneider Apo-Digitar - SAD 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	5.76	0.95614	0.62739	36	18.9	3.13695	2.05837
37	5.6	0.95300	0.62634	37	18.4	3.12665	2.05492
38	5.46	0.94989	0.62529	38	17.9	3.11644	2.05149
39	5.32	0.94680	0.62425	39	17.5	3.10631	2.04807
40	5.2 x	0.94374	0.62322	40	17 x	3.09625	2.04467
41	5.07	0.94070	0.62218	41	16.6	3.08628	2.04129
42	4.96	0.93768	0.62116	42	16.3	3.07638	2.03792
43	4.84	0.93469	0.62014	43	15.9	3.06656	2.03456
44	4.74	0.93172	0.61912	44	15.5	3.05682	2.03123
45	4.64 x	0.92877	0.61811	45	15.2 x	3.04715	2.02791
46	4.54	0.92585	0.61710	46	14.9	3.03756	2.02460
47	4.44	0.92295	0.61609	47	14.6	3.02804	2.02131
48	4.35	0.92007	0.61510	48	14.3	3.01859	2.01803
49	4.27	0.91721	0.61410	49	14	3.00921	2.01477
50	4.19 x	0.91437	0.61311	50	13.7 x	2.99991	2.01153
51	4.11	0.91156	0.61213	51	13.5	2.99068	2.00829
52	4.03	0.90877	0.61115	52	13.2	2.98151	2.00508
53	3.96	0.90599	0.61017	53	13	2.97242	2.00188
54	3.89	0.90324	0.60920	54	12.8	2.96339	1.99869
55	3.82 x	0.90051	0.60823	55	12.5 x	2.95443	1.99552
56	3.75	0.89780	0.60727	56	12.3	2.94554	1.99236
57	3.69	0.89511	0.60631	57	12.1	2.93671	1.98922
58	3.63	0.89244	0.60536	58	11.9	2.92795	1.98609
59	3.57	0.88979	0.60441	59	11.7	2.91925	1.98298
60	3.51 x	0.88716	0.60347	60	11.5 x	2.91062	1.97987
61	3.46	0.88454	0.60252	61	11.3	2.90205	1.97679
62	3.41	0.88195	0.60159	62	11.2	2.89354	1.97371
63	3.35	0.87938	0.60066	63	11	2.88509	1.97066
64	3.3	0.87682	0.59973	64	10.8	2.87670	1.96761
65	3.26 x	0.87428	0.59880	65	10.7 x	2.86838	1.96458
66	3.21	0.87176	0.59788	66	10.5	2.86011	1.96156
67	3.16	0.86926	0.59697	67	10.4	2.85191	1.95856
68	3.12	0.86678	0.59606	68	10.2	2.84376	1.95556
69	3.08	0.86431	0.59515	69	10.1	2.83567	1.95259
70	3.03 x	0.86186	0.59424	70	9.95 x	2.82763	1.94962
71	2.99	0.85943	0.59334	71	9.82	2.81966	1.94667

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Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	2.95	0.85702	0.59245	72	9.69	2.81173	1.94373
73	2.92	0.85462	0.59156	73	9.56	2.80387	1.94080
74	2.88	0.85224	0.59067	74	9.44	2.79606	1.93789
75	2.84 x	0.84987	0.58978	75	9.32 x	2.78830	1.93499
76	2.81	0.84753	0.58890	76	9.21	2.78060	1.93210
77	2.77	0.84520	0.58803	77	9.09	2.77295	1.92923
78	2.74	0.84288	0.58716	78	8.98	2.76535	1.92636
79	2.71	0.84058	0.58629	79	8.88	2.75781	1.92351
80	2.67 x	0.83830	0.58542	80	8.77 x	2.75032	1.92068
81	2.64	0.83603	0.58456	81	8.67	2.74287	1.91785
82	2.61	0.83378	0.58370	82	8.57	2.73548	1.91504
83	2.58	0.83154	0.58285	83	8.47	2.72814	1.91224
84	2.55	0.82932	0.58200	84	8.38	2.72085	1.90945
85	2.53 x	0.82711	0.58115	85	8.28 x	2.71361	1.90667
86	2.5	0.82491	0.58031	86	8.19	2.70641	1.90390
87	2.47	0.82274	0.57947	87	8.11	2.69927	1.90115
88	2.44	0.82057	0.57864	88	8.02	2.69217	1.89841
89	2.42	0.81842	0.57780	89	7.94	2.68512	1.89568
90	2.39 x	0.81629	0.57697	90	7.85 x	2.67811	1.89296
91	2.37	0.81417	0.57615	91	7.77	2.67115	1.89025
92	2.34	0.81206	0.57533	92	7.69	2.66424	1.88756
93	2.32	0.80997	0.57451	93	7.62	2.65737	1.88487
94	2.3	0.80789	0.57370	94	7.54	2.65055	1.88220
95	2.28 x	0.80582	0.57288	95	7.47 x	2.64377	1.87954
96	2.25	0.80377	0.57208	96	7.39	2.63704	1.87689
97	2.23	0.80173	0.57127	97	7.32	2.63035	1.87425
98	2.21	0.79970	0.57047	98	7.25	2.62370	1.87162
99	2.19	0.79769	0.56967	99	7.18	2.61710	1.86901
100	2.17 x	0.79569	0.56888	100	7.12 x	2.61054	1.86640
101	2.15	0.79370	0.56809	101	7.05	2.60402	1.86380
102	2.13	0.79173	0.56730	102	6.99	2.59754	1.86122
103	2.11	0.78977	0.56652	103	6.92	2.59110	1.85865
104	2.09	0.78782	0.56573	104	6.86	2.58470	1.85608
105	2.07 x	0.78588	0.56496	105	6.8 x	2.57835	1.85353
106	2.06	0.78396	0.56418	106	6.74	2.57203	1.85099
107	2.04	0.78204	0.56341	107	6.68	2.56576	1.84846

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Schneider Apo-Digitar - SAD 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

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108	2.02	0.78014	0.56264	108	6.63	2.55952	1.84594
109	2	0.77825	0.56188	109	6.57	2.55332	1.84342
110	1.99 x	0.77638	0.56111	110	6.52 x	2.54716	1.84092
111	1.97	0.77451	0.56035	111	6.46	2.54104	1.83843
112	1.95	0.77266	0.55960	112	6.41	2.53496	1.83595
113	1.94	0.77081	0.55885	113	6.36	2.52891	1.83348
114	1.92	0.76898	0.55810	114	6.31	2.52290	1.83102
115	1.91 x	0.76716	0.55735	115	6.26 x	2.51693	1.82857
116	1.89	0.76535	0.55661	116	6.21	2.51100	1.82613
117	1.88	0.76355	0.55586	117	6.16	2.50510	1.82370
118	1.86	0.76177	0.55513	118	6.11	2.49923	1.82128
119	1.85	0.75999	0.55439	119	6.06	2.49341	1.81887
120	1.83 x	0.75822	0.55366	120	6.02 x	2.48761	1.81647
121	1.82	0.75647	0.55293	121	5.97	2.48186	1.81408
122	1.81	0.75473	0.55221	122	5.93	2.47613	1.81170
123	1.79	0.75299	0.55148	123	5.88	2.47045	1.80933
124	1.78	0.75127	0.55076	124	5.84	2.46479	1.80696
125	1.77 x	0.74956	0.55005	125	5.8 x	2.45917	1.80461
126	1.75	0.74785	0.54933	126	5.75	2.45358	1.80227
127	1.74	0.74616	0.54862	127	5.71	2.44803	1.79993
128	1.73	0.74448	0.54791	128	5.67	2.44251	1.79761
129	1.72	0.74280	0.54720	129	5.63	2.43702	1.79529
130	1.7 x	0.74114	0.54650	130	5.59 x	2.43156	1.79298
131	1.69	0.73949	0.54580	131	5.55	2.42614	1.79068
132	1.68	0.73784	0.54510	132	5.52	2.42074	1.78840
133	1.67	0.73621	0.54441	133	5.48	2.41538	1.78612
134	1.66	0.73458	0.54372	134	5.44	2.41005	1.78385
135	1.65 x	0.73297	0.54303	135	5.4 x	2.40475	1.78158
136	1.64	0.73136	0.54234	136	5.37	2.39948	1.77933
137	1.63	0.72977	0.54166	137	5.33	2.39424	1.77709
138	1.61	0.72818	0.54097	138	5.3	2.38904	1.77485
139	1.6	0.72660	0.54030	139	5.26	2.38386	1.77262
140	1.59 x	0.72503	0.53962	140	5.23 x	2.37871	1.77040
141	1.58	0.72347	0.53895	141	5.2	2.37359	1.76820
142	1.57	0.72192	0.53827	142	5.16	2.36850	1.76599
143	1.56	0.72038	0.53761	143	5.13	2.36344	1.76380

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Schneider Apo-Digitar - SAD 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	1.55	0.71884	0.53694	144	5.1	2.35840	1.76162
145	1.54 x	0.71732	0.53628	145	5.07 x	2.35340	1.75944
146	1.53	0.71580	0.53562	146	5.04	2.34842	1.75727
147	1.53	0.71429	0.53496	147	5	2.34347	1.75512
148	1.52	0.71279	0.53430	148	4.97	2.33855	1.75296
149	1.51	0.71130	0.53365	149	4.94	2.33366	1.75082
150	1.5 x	0.70982	0.53300	150	4.91 x	2.32879	1.74869
151	1.49	0.70834	0.53235	151	4.89	2.32395	1.74656
152	1.48	0.70687	0.53171	152	4.86	2.31914	1.74444
153	1.47	0.70542	0.53106	153	4.83	2.31436	1.74233
154	1.46	0.70397	0.53042	154	4.8	2.30960	1.74023
155	1.45 x	0.70252	0.52978	155	4.77 x	2.30486	1.73814
156	1.45	0.70109	0.52915	156	4.75	2.30016	1.73605
157	1.44	0.69966	0.52851	157	4.72	2.29547	1.73397
158	1.43	0.69824	0.52788	158	4.69	2.29082	1.73190
159	1.42	0.69683	0.52725	159	4.67	2.28619	1.72984
160	1.41 x	0.69543	0.52663	160	4.64 x	2.28158	1.72778
161	1.41	0.69403	0.52600	161	4.61	2.27700	1.72574
162	1.4	0.69264	0.52538	162	4.59	2.27245	1.72370
163	1.39	0.69126	0.52476	163	4.56	2.26791	1.72167
164	1.38	0.68989	0.52415	164	4.54	2.26341	1.71964
165	1.38 x	0.68852	0.52353	165	4.51 x	2.25892	1.71762
166	1.37	0.68716	0.52292	166	4.49	2.25446	1.71561
167	1.36	0.68581	0.52231	167	4.47	2.25003	1.71361
168	1.35	0.68446	0.52170	168	4.44	2.24562	1.71162
169	1.35	0.68313	0.52110	169	4.42	2.24123	1.70963
170	1.34 x	0.68180	0.52049	170	4.4 x	2.23686	1.70765
171	1.33	0.68047	0.51989	171	4.37	2.23252	1.70568
172	1.33	0.67916	0.51929	172	4.35	2.22820	1.70371
173	1.32	0.67785	0.51870	173	4.33	2.22391	1.70176
174	1.31	0.67654	0.51810	174	4.31	2.21963	1.69980
175	1.31 x	0.67525	0.51751	175	4.29 x	2.21538	1.69786
176	1.3	0.67396	0.51692	176	4.26	2.21115	1.69592
177	1.29	0.67268	0.51633	177	4.24	2.20694	1.69400
178	1.29	0.67140	0.51574	178	4.22	2.20276	1.69207
179	1.28	0.67013	0.51516	179	4.2	2.19859	1.69016

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Schneider Apo-Digitar - SAD 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	1.27 x	0.66887	0.51458	180	4.18 x	2.19445	1.68825
181	1.27	0.66761	0.51400	181	4.16	2.19033	1.68635
182	1.26	0.66636	0.51342	182	4.14	2.18623	1.68445
183	1.26	0.66512	0.51285	183	4.12	2.18215	1.68257
184	1.25	0.66388	0.51227	184	4.1	2.17809	1.68068
185	1.24 x	0.66265	0.51170	185	4.08 x	2.17405	1.67881
186	1.24	0.66143	0.51113	186	4.06	2.17004	1.67694
187	1.23	0.66021	0.51057	187	4.04	2.16604	1.67508
188	1.23	0.65900	0.51000	188	4.03	2.16206	1.67323
189	1.22	0.65779	0.50944	189	4.01	2.15811	1.67138
190	1.22 x	0.65659	0.50888	190	3.99 x	2.15417	1.66954
191	1.21	0.65540	0.50832	191	3.97	2.15025	1.66771
192	1.2	0.65421	0.50776	192	3.95	2.14636	1.66588
193	1.2	0.65303	0.50720	193	3.93	2.14248	1.66406
194	1.19	0.65185	0.50665	194	3.92	2.13862	1.66224
195	1.19 x	0.65068	0.50610	195	3.9 x	2.13478	1.66044
196	1.18	0.64952	0.50555	196	3.88	2.13096	1.65863
197	1.18	0.64836	0.50500	197	3.87	2.12716	1.65684
198	1.17	0.64721	0.50446	198	3.85	2.12338	1.65505
199	1.17	0.64606	0.50392	199	3.83	2.11962	1.65327
200	1.16 x	0.64492	0.50337	200	3.82 x	2.11587	1.65149
201	1.16	0.64378	0.50283	201	3.8	2.11215	1.64972
202	1.15	0.64265	0.50230	202	3.78	2.10844	1.64796
203	1.15	0.64153	0.50176	203	3.77	2.10475	1.64620
204	1.14	0.64041	0.50123	204	3.75	2.10108	1.64445
205	1.14 x	0.63929	0.50070	205	3.74 x	2.09742	1.64270
206	1.13	0.63819	0.50017	206	3.72	2.09379	1.64096
207	1.13	0.63708	0.49964	207	3.7	2.09017	1.63923
208	1.12	0.63599	0.49911	208	3.69	2.08657	1.63750
209	1.12	0.63489	0.49859	209	3.67	2.08298	1.63578
210	1.12 x	0.63381	0.49806	210	3.66 x	2.07941	1.63407
211	1.11	0.63272	0.49754	211	3.64	2.07586	1.63236
212	1.11	0.63165	0.49702	212	3.63	2.07233	1.63065
213	1.1	0.63058	0.49651	213	3.61	2.06882	1.62896
214	1.1	0.62951	0.49599	214	3.6	2.06532	1.62726
215	1.09 x	0.62845	0.49548	215	3.59 x	2.06184	1.62558

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Schneider Apo-Digitar - SAD 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.09	0.62739	0.49496	216	3.57	2.05837	1.62390
217	1.08	0.62634	0.49445	217	3.56	2.05492	1.62222
218	1.08	0.62529	0.49395	218	3.54	2.05149	1.62056
219	1.08	0.62425	0.49344	219	3.53	2.04807	1.61889
220	1.07 x	0.62322	0.49293	220	3.52 x	2.04467	1.61724
221	1.07	0.62218	0.49243	221	3.5	2.04129	1.61559
222	1.06	0.62116	0.49193	222	3.49	2.03792	1.61394
223	1.06	0.62014	0.49143	223	3.48	2.03456	1.61230
224	1.06	0.61912	0.49093	224	3.46	2.03123	1.61067
225	1.05 x	0.61811	0.49043	225	3.45 x	2.02791	1.60904
226	1.05	0.61710	0.48994	226	3.44	2.02460	1.60741
227	1.04	0.61609	0.48945	227	3.42	2.02131	1.60580
228	1.04	0.61510	0.48895	228	3.41	2.01803	1.60418
229	1.04	0.61410	0.48847	229	3.4	2.01477	1.60258
230	1.03 x	0.61311	0.48798	230	3.39 x	2.01153	1.60097
231	1.03	0.61213	0.48749	231	3.37	2.00829	1.59938
232	1.02	0.61115	0.48701	232	3.36	2.00508	1.59779
233	1.02	0.61017	0.48652	233	3.35	2.00188	1.59620
234	1.02	0.60920	0.48604	234	3.34	1.99869	1.59462
235	1.01 x	0.60823	0.48556	235	3.33 x	1.99552	1.59305
236	1.01	0.60727	0.48508	236	3.31	1.99236	1.59148
237	1.01	0.60631	0.48461	237	3.3	1.98922	1.58991
238	1	0.60536	0.48413	238	3.29	1.98609	1.58835
239	.999	0.60441	0.48366	239	3.28	1.98298	1.58680
240	.996 x	0.60347	0.48318	240	3.27 x	1.97987	1.58525
241	.992	0.60252	0.48271	241	3.26	1.97679	1.58371
242	.989	0.60159	0.48225	242	3.24	1.97371	1.58217
243	.986	0.60066	0.48178	243	3.23	1.97066	1.58064
244	.982	0.59973	0.48131	244	3.22	1.96761	1.57911
245	.979 x	0.59880	0.48085	245	3.21 x	1.96458	1.57759
246	.976	0.59788	0.48039	246	3.2	1.96156	1.57607
247	.972	0.59697	0.47992	247	3.19	1.95856	1.57455
248	.969	0.59606	0.47946	248	3.18	1.95556	1.57305
249	.966	0.59515	0.47901	249	3.17	1.95259	1.57154
250	.962 x	0.59424	0.47855	250	3.16 x	1.94962	1.57004
251	.959	0.59334	0.47809	251	3.15	1.94667	1.56855

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Schneider Apo-Digitar - SAD 72

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.956	0.59245	0.47764	252	3.14	1.94373	1.56706
253	.953	0.59156	0.47719	253	3.13	1.94080	1.56558
254	.95	0.59067	0.47674	254	3.12	1.93789	1.56410
255	.947 x	0.58978	0.47629	255	3.11 x	1.93499	1.56263
256	.944	0.58890	0.47584	256	3.1	1.93210	1.56116
257	.941	0.58803	0.47539	257	3.09	1.92923	1.55969
258	.938	0.58716	0.47495	258	3.08	1.92636	1.55823
259	.935	0.58629	0.47451	259	3.07	1.92351	1.55678
260	.932 x	0.58542	0.47406	260	3.06 x	1.92068	1.55533
261	.929	0.58456	0.47362	261	3.05	1.91785	1.55388
262	.926	0.58370	0.47318	262	3.04	1.91504	1.55244
263	.923	0.58285	0.47275	263	3.03	1.91224	1.55101
264	.92	0.58200	0.47231	264	3.02	1.90945	1.54958
265	.917 x	0.58115	0.47188	265	3.01 x	1.90667	1.54815
266	.914	0.58031	0.47144	266	3	1.90390	1.54673
267	.912	0.57947	0.47101	267	2.99	1.90115	1.54531
268	.909	0.57864	0.47058	268	2.98	1.89841	1.54390
269	.906	0.57780	0.47015	269	2.97	1.89568	1.54249
270	.903 x	0.57697	0.46972	270	2.96 x	1.89296	1.54108

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Schneider ALPA Apo Helvetar - AAH 75

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.08864	0.66887	0	∞	XX	3.57166	2.19445
1	202	XX	1.08436	0.66761	1	663	XX	3.55762	2.19033
2	101	XX	1.08012	0.66636	2	332	XX	3.54372	2.18623
3	67.4	XX	1.07592	0.66512	3	221	XX	3.52994	2.18215
4	50.6	XX	1.07176	0.66388	4	166	XX	3.51628	2.17809
5	40.5	X	1.06764	0.66265	5	133	X	3.50275	2.17405
6	33.8		1.06355	0.66143	6	111		3.48934	2.17004
7	29		1.05950	0.66021	7	95.1		3.47606	2.16604
8	25.4		1.05549	0.65900	8	83.3		3.46289	2.16206
9	22.6		1.05151	0.65779	9	74.1		3.44984	2.15811
10	20.3	X	1.04757	0.65659	10	66.7	X	3.43691	2.15417
11	18.5		1.04366	0.65540	11	60.7		3.42409	2.15025
12	17		1.03979	0.65421	12	55.7		3.41139	2.14636
13	15.7		1.03595	0.65303	13	51.4		3.39880	2.14248
14	14.6		1.03215	0.65185	14	47.8		3.38631	2.13862
15	13.6	X	1.02838	0.65068	15	44.6	X	3.37394	2.13478
16	12.8		1.02464	0.64952	16	41.9		3.36167	2.13096
17	12		1.02093	0.64836	17	39.4		3.34951	2.12716
18	11.4		1.01726	0.64721	18	37.3		3.33746	2.12338
19	10.8		1.01361	0.64606	19	35.3		3.32551	2.11962
20	10.2	X	1.01000	0.64492	20	33.6	X	3.31366	2.11587
21	9.76		1.00642	0.64378	21	32		3.30191	2.11215
22	9.32		1.00287	0.64265	22	30.6		3.29026	2.10844
23	8.92		0.99935	0.64153	23	29.3		3.27871	2.10475
24	8.56		0.99586	0.64041	24	28.1		3.26725	2.10108
25	8.22	X	0.99240	0.63929	25	27	X	3.25589	2.09742
26	7.91		0.98896	0.63819	26	26		3.24463	2.09379
27	7.62		0.98556	0.63708	27	25		3.23346	2.09017
28	7.36		0.98218	0.63599	28	24.1		3.22238	2.08657
29	7.11		0.97883	0.63489	29	23.3		3.21140	2.08298
30	6.88	X	0.97551	0.63381	30	22.6	X	3.20050	2.07941
31	6.66		0.97222	0.63272	31	21.9		3.18969	2.07586
32	6.46		0.96895	0.63165	32	21.2		3.17897	2.07233
33	6.27		0.96571	0.63058	33	20.6		3.16834	2.06882
34	6.09		0.96249	0.62951	34	20		3.15779	2.06532
35	5.92	X	0.95931	0.62845	35	19.4	X	3.14733	2.06184

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Schneider ALPA Apo Helvetar - AAH 75

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	5.76	0.95614	0.62739	36	18.9	3.13695	2.05837
37	5.6	0.95300	0.62634	37	18.4	3.12665	2.05492
38	5.46	0.94989	0.62529	38	17.9	3.11644	2.05149
39	5.32	0.94680	0.62425	39	17.5	3.10631	2.04807
40	5.2 x	0.94374	0.62322	40	17 x	3.09625	2.04467
41	5.07	0.94070	0.62218	41	16.6	3.08628	2.04129
42	4.96	0.93768	0.62116	42	16.3	3.07638	2.03792
43	4.84	0.93469	0.62014	43	15.9	3.06656	2.03456
44	4.74	0.93172	0.61912	44	15.5	3.05682	2.03123
45	4.64 x	0.92877	0.61811	45	15.2 x	3.04715	2.02791
46	4.54	0.92585	0.61710	46	14.9	3.03756	2.02460
47	4.44	0.92295	0.61609	47	14.6	3.02804	2.02131
48	4.35	0.92007	0.61510	48	14.3	3.01859	2.01803
49	4.27	0.91721	0.61410	49	14	3.00921	2.01477
50	4.19 x	0.91437	0.61311	50	13.7 x	2.99991	2.01153
51	4.11	0.91156	0.61213	51	13.5	2.99068	2.00829
52	4.03	0.90877	0.61115	52	13.2	2.98151	2.00508
53	3.96	0.90599	0.61017	53	13	2.97242	2.00188
54	3.89	0.90324	0.60920	54	12.8	2.96339	1.99869
55	3.82 x	0.90051	0.60823	55	12.5 x	2.95443	1.99552
56	3.75	0.89780	0.60727	56	12.3	2.94554	1.99236
57	3.69	0.89511	0.60631	57	12.1	2.93671	1.98922
58	3.63	0.89244	0.60536	58	11.9	2.92795	1.98609
59	3.57	0.88979	0.60441	59	11.7	2.91925	1.98298
60	3.51 x	0.88716	0.60347	60	11.5 x	2.91062	1.97987
61	3.46	0.88454	0.60252	61	11.3	2.90205	1.97679
62	3.41	0.88195	0.60159	62	11.2	2.89354	1.97371
63	3.35	0.87938	0.60066	63	11	2.88509	1.97066
64	3.3	0.87682	0.59973	64	10.8	2.87670	1.96761
65	3.26 x	0.87428	0.59880	65	10.7 x	2.86838	1.96458
66	3.21	0.87176	0.59788	66	10.5	2.86011	1.96156
67	3.16	0.86926	0.59697	67	10.4	2.85191	1.95856
68	3.12	0.86678	0.59606	68	10.2	2.84376	1.95556
69	3.08	0.86431	0.59515	69	10.1	2.83567	1.95259
70	3.03 x	0.86186	0.59424	70	9.95 x	2.82763	1.94962
71	2.99	0.85943	0.59334	71	9.82	2.81966	1.94667

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Schneider ALPA Apo Helvetar - AAH 75

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	2.95	0.85702	0.59245	72	9.69	2.81173	1.94373
73	2.92	0.85462	0.59156	73	9.56	2.80387	1.94080
74	2.88	0.85224	0.59067	74	9.44	2.79606	1.93789
75	2.84 x	0.84987	0.58978	75	9.32 x	2.78830	1.93499
76	2.81	0.84753	0.58890	76	9.21	2.78060	1.93210
77	2.77	0.84520	0.58803	77	9.09	2.77295	1.92923
78	2.74	0.84288	0.58716	78	8.98	2.76535	1.92636
79	2.71	0.84058	0.58629	79	8.88	2.75781	1.92351
80	2.67 x	0.83830	0.58542	80	8.77 x	2.75032	1.92068
81	2.64	0.83603	0.58456	81	8.67	2.74287	1.91785
82	2.61	0.83378	0.58370	82	8.57	2.73548	1.91504
83	2.58	0.83154	0.58285	83	8.47	2.72814	1.91224
84	2.55	0.82932	0.58200	84	8.38	2.72085	1.90945
85	2.53 x	0.82711	0.58115	85	8.28 x	2.71361	1.90667
86	2.5	0.82491	0.58031	86	8.19	2.70641	1.90390
87	2.47	0.82274	0.57947	87	8.11	2.69927	1.90115
88	2.44	0.82057	0.57864	88	8.02	2.69217	1.89841
89	2.42	0.81842	0.57780	89	7.94	2.68512	1.89568
90	2.39 x	0.81629	0.57697	90	7.85 x	2.67811	1.89296
91	2.37	0.81417	0.57615	91	7.77	2.67115	1.89025
92	2.34	0.81206	0.57533	92	7.69	2.66424	1.88756
93	2.32	0.80997	0.57451	93	7.62	2.65737	1.88487
94	2.3	0.80789	0.57370	94	7.54	2.65055	1.88220
95	2.28 x	0.80582	0.57288	95	7.47 x	2.64377	1.87954
96	2.25	0.80377	0.57208	96	7.39	2.63704	1.87689
97	2.23	0.80173	0.57127	97	7.32	2.63035	1.87425
98	2.21	0.79970	0.57047	98	7.25	2.62370	1.87162
99	2.19	0.79769	0.56967	99	7.18	2.61710	1.86901
100	2.17 x	0.79569	0.56888	100	7.12 x	2.61054	1.86640
101	2.15	0.79370	0.56809	101	7.05	2.60402	1.86380
102	2.13	0.79173	0.56730	102	6.99	2.59754	1.86122
103	2.11	0.78977	0.56652	103	6.92	2.59110	1.85865
104	2.09	0.78782	0.56573	104	6.86	2.58470	1.85608
105	2.07 x	0.78588	0.56496	105	6.8 x	2.57835	1.85353
106	2.06	0.78396	0.56418	106	6.74	2.57203	1.85099
107	2.04	0.78204	0.56341	107	6.68	2.56576	1.84846

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Schneider ALPA Apo Helvetar - AAH 75

 Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	2.02	0.78014	0.56264	108	6.63	2.55952	1.84594
109	2	0.77825	0.56188	109	6.57	2.55332	1.84342
110	1.99 x	0.77638	0.56111	110	6.52 x	2.54716	1.84092
111	1.97	0.77451	0.56035	111	6.46	2.54104	1.83843
112	1.95	0.77266	0.55960	112	6.41	2.53496	1.83595
113	1.94	0.77081	0.55885	113	6.36	2.52891	1.83348
114	1.92	0.76898	0.55810	114	6.31	2.52290	1.83102
115	1.91 x	0.76716	0.55735	115	6.26 x	2.51693	1.82857
116	1.89	0.76535	0.55661	116	6.21	2.51100	1.82613
117	1.88	0.76355	0.55586	117	6.16	2.50510	1.82370
118	1.86	0.76177	0.55513	118	6.11	2.49923	1.82128
119	1.85	0.75999	0.55439	119	6.06	2.49341	1.81887
120	1.83 x	0.75822	0.55366	120	6.02 x	2.48761	1.81647
121	1.82	0.75647	0.55293	121	5.97	2.48186	1.81408
122	1.81	0.75473	0.55221	122	5.93	2.47613	1.81170
123	1.79	0.75299	0.55148	123	5.88	2.47045	1.80933
124	1.78	0.75127	0.55076	124	5.84	2.46479	1.80696
125	1.77 x	0.74956	0.55005	125	5.8 x	2.45917	1.80461
126	1.75	0.74785	0.54933	126	5.75	2.45358	1.80227
127	1.74	0.74616	0.54862	127	5.71	2.44803	1.79993
128	1.73	0.74448	0.54791	128	5.67	2.44251	1.79761
129	1.72	0.74280	0.54720	129	5.63	2.43702	1.79529
130	1.7 x	0.74114	0.54650	130	5.59 x	2.43156	1.79298
131	1.69	0.73949	0.54580	131	5.55	2.42614	1.79068
132	1.68	0.73784	0.54510	132	5.52	2.42074	1.78840
133	1.67	0.73621	0.54441	133	5.48	2.41538	1.78612
134	1.66	0.73458	0.54372	134	5.44	2.41005	1.78385
135	1.65 x	0.73297	0.54303	135	5.4 x	2.40475	1.78158
136	1.64	0.73136	0.54234	136	5.37	2.39948	1.77933
137	1.63	0.72977	0.54166	137	5.33	2.39424	1.77709
138	1.61	0.72818	0.54097	138	5.3	2.38904	1.77485
139	1.6	0.72660	0.54030	139	5.26	2.38386	1.77262
140	1.59 x	0.72503	0.53962	140	5.23 x	2.37871	1.77040
141	1.58	0.72347	0.53895	141	5.2	2.37359	1.76820
142	1.57	0.72192	0.53827	142	5.16	2.36850	1.76599
143	1.56	0.72038	0.53761	143	5.13	2.36344	1.76380

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Schneider ALPA Apo Helvetar - AAH 75

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	1.55	0.71884	0.53694	144	5.1	2.35840	1.76162
145	1.54 x	0.71732	0.53628	145	5.07 x	2.35340	1.75944
146	1.53	0.71580	0.53562	146	5.04	2.34842	1.75727
147	1.53	0.71429	0.53496	147	5	2.34347	1.75512
148	1.52	0.71279	0.53430	148	4.97	2.33855	1.75296
149	1.51	0.71130	0.53365	149	4.94	2.33366	1.75082
150	1.5 x	0.70982	0.53300	150	4.91 x	2.32879	1.74869
151	1.49	0.70834	0.53235	151	4.89	2.32395	1.74656
152	1.48	0.70687	0.53171	152	4.86	2.31914	1.74444
153	1.47	0.70542	0.53106	153	4.83	2.31436	1.74233
154	1.46	0.70397	0.53042	154	4.8	2.30960	1.74023
155	1.45 x	0.70252	0.52978	155	4.77 x	2.30486	1.73814
156	1.45	0.70109	0.52915	156	4.75	2.30016	1.73605
157	1.44	0.69966	0.52851	157	4.72	2.29547	1.73397
158	1.43	0.69824	0.52788	158	4.69	2.29082	1.73190
159	1.42	0.69683	0.52725	159	4.67	2.28619	1.72984
160	1.41 x	0.69543	0.52663	160	4.64 x	2.28158	1.72778
161	1.41	0.69403	0.52600	161	4.61	2.27700	1.72574
162	1.4	0.69264	0.52538	162	4.59	2.27245	1.72370
163	1.39	0.69126	0.52476	163	4.56	2.26791	1.72167
164	1.38	0.68989	0.52415	164	4.54	2.26341	1.71964
165	1.38 x	0.68852	0.52353	165	4.51 x	2.25892	1.71762
166	1.37	0.68716	0.52292	166	4.49	2.25446	1.71561
167	1.36	0.68581	0.52231	167	4.47	2.25003	1.71361
168	1.35	0.68446	0.52170	168	4.44	2.24562	1.71162
169	1.35	0.68313	0.52110	169	4.42	2.24123	1.70963
170	1.34 x	0.68180	0.52049	170	4.4 x	2.23686	1.70765
171	1.33	0.68047	0.51989	171	4.37	2.23252	1.70568
172	1.33	0.67916	0.51929	172	4.35	2.22820	1.70371
173	1.32	0.67785	0.51870	173	4.33	2.22391	1.70176
174	1.31	0.67654	0.51810	174	4.31	2.21963	1.69980
175	1.31 x	0.67525	0.51751	175	4.29 x	2.21538	1.69786
176	1.3	0.67396	0.51692	176	4.26	2.21115	1.69592
177	1.29	0.67268	0.51633	177	4.24	2.20694	1.69400
178	1.29	0.67140	0.51574	178	4.22	2.20276	1.69207
179	1.28	0.67013	0.51516	179	4.2	2.19859	1.69016

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Schneider ALPA Apo Helvetar - AAH 75

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	1.27 x	0.66887	0.51458	180	4.18 x	2.19445	1.68825
181	1.27	0.66761	0.51400	181	4.16	2.19033	1.68635
182	1.26	0.66636	0.51342	182	4.14	2.18623	1.68445
183	1.26	0.66512	0.51285	183	4.12	2.18215	1.68257
184	1.25	0.66388	0.51227	184	4.1	2.17809	1.68068
185	1.24 x	0.66265	0.51170	185	4.08 x	2.17405	1.67881
186	1.24	0.66143	0.51113	186	4.06	2.17004	1.67694
187	1.23	0.66021	0.51057	187	4.04	2.16604	1.67508
188	1.23	0.65900	0.51000	188	4.03	2.16206	1.67323
189	1.22	0.65779	0.50944	189	4.01	2.15811	1.67138
190	1.22 x	0.65659	0.50888	190	3.99 x	2.15417	1.66954
191	1.21	0.65540	0.50832	191	3.97	2.15025	1.66771
192	1.2	0.65421	0.50776	192	3.95	2.14636	1.66588
193	1.2	0.65303	0.50720	193	3.93	2.14248	1.66406
194	1.19	0.65185	0.50665	194	3.92	2.13862	1.66224
195	1.19 x	0.65068	0.50610	195	3.9 x	2.13478	1.66044
196	1.18	0.64952	0.50555	196	3.88	2.13096	1.65863
197	1.18	0.64836	0.50500	197	3.87	2.12716	1.65684
198	1.17	0.64721	0.50446	198	3.85	2.12338	1.65505
199	1.17	0.64606	0.50392	199	3.83	2.11962	1.65327
200	1.16 x	0.64492	0.50337	200	3.82 x	2.11587	1.65149
201	1.16	0.64378	0.50283	201	3.8	2.11215	1.64972
202	1.15	0.64265	0.50230	202	3.78	2.10844	1.64796
203	1.15	0.64153	0.50176	203	3.77	2.10475	1.64620
204	1.14	0.64041	0.50123	204	3.75	2.10108	1.64445
205	1.14 x	0.63929	0.50070	205	3.74 x	2.09742	1.64270
206	1.13	0.63819	0.50017	206	3.72	2.09379	1.64096
207	1.13	0.63708	0.49964	207	3.7	2.09017	1.63923
208	1.12	0.63599	0.49911	208	3.69	2.08657	1.63750
209	1.12	0.63489	0.49859	209	3.67	2.08298	1.63578
210	1.12 x	0.63381	0.49806	210	3.66 x	2.07941	1.63407
211	1.11	0.63272	0.49754	211	3.64	2.07586	1.63236
212	1.11	0.63165	0.49702	212	3.63	2.07233	1.63065
213	1.1	0.63058	0.49651	213	3.61	2.06882	1.62896
214	1.1	0.62951	0.49599	214	3.6	2.06532	1.62726
215	1.09 x	0.62845	0.49548	215	3.59 x	2.06184	1.62558

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Schneider ALPA Apo Helvetar - AAH 75

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.09	0.62739	0.49496	216	3.57	2.05837	1.62390
217	1.08	0.62634	0.49445	217	3.56	2.05492	1.62222
218	1.08	0.62529	0.49395	218	3.54	2.05149	1.62056
219	1.08	0.62425	0.49344	219	3.53	2.04807	1.61889
220	1.07 x	0.62322	0.49293	220	3.52 x	2.04467	1.61724
221	1.07	0.62218	0.49243	221	3.5	2.04129	1.61559
222	1.06	0.62116	0.49193	222	3.49	2.03792	1.61394
223	1.06	0.62014	0.49143	223	3.48	2.03456	1.61230
224	1.06	0.61912	0.49093	224	3.46	2.03123	1.61067
225	1.05 x	0.61811	0.49043	225	3.45 x	2.02791	1.60904
226	1.05	0.61710	0.48994	226	3.44	2.02460	1.60741
227	1.04	0.61609	0.48945	227	3.42	2.02131	1.60580
228	1.04	0.61510	0.48895	228	3.41	2.01803	1.60418
229	1.04	0.61410	0.48847	229	3.4	2.01477	1.60258
230	1.03 x	0.61311	0.48798	230	3.39 x	2.01153	1.60097
231	1.03	0.61213	0.48749	231	3.37	2.00829	1.59938
232	1.02	0.61115	0.48701	232	3.36	2.00508	1.59779
233	1.02	0.61017	0.48652	233	3.35	2.00188	1.59620
234	1.02	0.60920	0.48604	234	3.34	1.99869	1.59462
235	1.01 x	0.60823	0.48556	235	3.33 x	1.99552	1.59305
236	1.01	0.60727	0.48508	236	3.31	1.99236	1.59148
237	1.01	0.60631	0.48461	237	3.3	1.98922	1.58991
238	1	0.60536	0.48413	238	3.29	1.98609	1.58835
239	.999	0.60441	0.48366	239	3.28	1.98298	1.58680
240	.996 x	0.60347	0.48318	240	3.27 x	1.97987	1.58525
241	.992	0.60252	0.48271	241	3.26	1.97679	1.58371
242	.989	0.60159	0.48225	242	3.24	1.97371	1.58217
243	.986	0.60066	0.48178	243	3.23	1.97066	1.58064
244	.982	0.59973	0.48131	244	3.22	1.96761	1.57911
245	.979 x	0.59880	0.48085	245	3.21 x	1.96458	1.57759
246	.976	0.59788	0.48039	246	3.2	1.96156	1.57607
247	.972	0.59697	0.47992	247	3.19	1.95856	1.57455
248	.969	0.59606	0.47946	248	3.18	1.95556	1.57305
249	.966	0.59515	0.47901	249	3.17	1.95259	1.57154
250	.962 x	0.59424	0.47855	250	3.16 x	1.94962	1.57004
251	.959	0.59334	0.47809	251	3.15	1.94667	1.56855

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Schneider ALPA Apo Helvetar - AAH 75

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.956	0.59245	0.47764	252	3.14	1.94373	1.56706
253	.953	0.59156	0.47719	253	3.13	1.94080	1.56558
254	.95	0.59067	0.47674	254	3.12	1.93789	1.56410
255	.947 x	0.58978	0.47629	255	3.11 x	1.93499	1.56263
256	.944	0.58890	0.47584	256	3.1	1.93210	1.56116
257	.941	0.58803	0.47539	257	3.09	1.92923	1.55969
258	.938	0.58716	0.47495	258	3.08	1.92636	1.55823
259	.935	0.58629	0.47451	259	3.07	1.92351	1.55678
260	.932 x	0.58542	0.47406	260	3.06 x	1.92068	1.55533
261	.929	0.58456	0.47362	261	3.05	1.91785	1.55388
262	.926	0.58370	0.47318	262	3.04	1.91504	1.55244
263	.923	0.58285	0.47275	263	3.03	1.91224	1.55101
264	.92	0.58200	0.47231	264	3.02	1.90945	1.54958
265	.917 x	0.58115	0.47188	265	3.01 x	1.90667	1.54815
266	.914	0.58031	0.47144	266	3	1.90390	1.54673
267	.912	0.57947	0.47101	267	2.99	1.90115	1.54531
268	.909	0.57864	0.47058	268	2.98	1.89841	1.54390
269	.906	0.57780	0.47015	269	2.97	1.89568	1.54249
270	.903 x	0.57697	0.46972	270	2.96 x	1.89296	1.54108

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Schneider Super Symmar - SSS 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.25688	0.77253	0	∞	XX	4.12361	2.53456
1	233	XX	1.25194	0.77108	1	763	XX	4.10742	2.52979
2	116	XX	1.24706	0.76964	2	382	XX	4.09139	2.52506
3	77.7	XX	1.24221	0.76820	3	255	XX	4.07550	2.52034
4	58.3	XX	1.23741	0.76677	4	191	XX	4.05976	2.51565
5	46.7	X	1.23266	0.76535	5	153	X	4.04416	2.51099
6	38.9		1.22795	0.76393	6	128		4.02870	2.50635
7	33.4		1.22328	0.76253	7	110		4.01338	2.50173
8	29.2		1.21865	0.76113	8	95.9		3.99820	2.49713
9	26		1.21406	0.75973	9	85.3		3.98315	2.49256
10	23.4	X	1.20952	0.75835	10	76.9	X	3.96824	2.48801
11	21.3		1.20501	0.75697	11	69.9		3.95346	2.48349
12	19.6		1.20055	0.75559	12	64.1		3.93881	2.47899
13	18.1		1.19612	0.75423	13	59.3		3.92429	2.47450
14	16.8		1.19174	0.75287	14	55.1		3.90989	2.47005
15	15.7	X	1.18739	0.75152	15	51.4	X	3.89563	2.46561
16	14.7		1.18308	0.75017	16	48.3		3.88148	2.46120
17	13.9		1.17880	0.74883	17	45.5		3.86746	2.45680
18	13.1		1.17456	0.74750	18	43		3.85356	2.45243
19	12.4		1.17036	0.74618	19	40.7		3.83977	2.44808
20	11.8	X	1.16620	0.74486	20	38.7	X	3.82611	2.44376
21	11.2		1.16207	0.74354	21	36.9		3.81256	2.43945
22	10.7		1.15797	0.74224	22	35.3		3.79913	2.43516
23	10.3		1.15391	0.74094	23	33.7		3.78581	2.43090
24	9.86		1.14989	0.73964	24	32.4		3.77260	2.42665
25	9.48	X	1.14589	0.73836	25	31.1	X	3.75950	2.42243
26	9.12		1.14194	0.73708	26	29.9		3.74651	2.41823
27	8.79		1.13801	0.73580	27	28.8		3.73362	2.41404
28	8.48		1.13411	0.73453	28	27.8		3.72085	2.40988
29	8.19		1.13025	0.73327	29	26.9		3.70818	2.40574
30	7.93	X	1.12642	0.73201	30	26	X	3.69561	2.40162
31	7.68		1.12262	0.73076	31	25.2		3.68315	2.39751
32	7.44		1.11885	0.72952	32	24.4		3.67078	2.39343
33	7.22		1.11512	0.72828	33	23.7		3.65852	2.38937
34	7.01		1.11141	0.72705	34	23		3.64635	2.38532
35	6.82	X	1.10773	0.72582	35	22.4	X	3.63429	2.38130

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Schneider Super Symmar - SSS 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	6.63	1.10408	0.72460	36	21.8	3.62232	2.37729
37	6.46	1.10046	0.72338	37	21.2	3.61044	2.37330
38	6.29	1.09687	0.72217	38	20.7	3.59866	2.36933
39	6.14	1.09331	0.72097	39	20.1	3.58697	2.36538
40	5.99 x	1.08978	0.71977	40	19.6 x	3.57538	2.36145
41	5.85	1.08627	0.71858	41	19.2	3.56387	2.35754
42	5.71	1.08279	0.71739	42	18.7	3.55246	2.35365
43	5.58	1.07934	0.71621	43	18.3	3.54113	2.34977
44	5.46	1.07591	0.71503	44	17.9	3.52989	2.34591
45	5.34 x	1.07251	0.71386	45	17.5 x	3.51874	2.34207
46	5.23	1.06914	0.71270	46	17.2	3.50768	2.33825
47	5.12	1.06579	0.71154	47	16.8	3.49670	2.33444
48	5.02	1.06247	0.71038	48	16.5	3.48580	2.33065
49	4.92	1.05918	0.70923	49	16.1	3.47499	2.32688
50	4.83 x	1.05590	0.70809	50	15.8 x	3.46425	2.32313
51	4.74	1.05266	0.70695	51	15.5	3.45360	2.31940
52	4.65	1.04944	0.70582	52	15.2	3.44303	2.31568
53	4.56	1.04624	0.70469	53	15	3.43254	2.31198
54	4.48	1.04306	0.70357	54	14.7	3.42213	2.30829
55	4.4 x	1.03991	0.70245	55	14.4 x	3.41179	2.30462
56	4.33	1.03679	0.70134	56	14.2	3.40153	2.30097
57	4.26	1.03368	0.70023	57	14	3.39135	2.29734
58	4.19	1.03060	0.69913	58	13.7	3.38124	2.29372
59	4.12	1.02754	0.69803	59	13.5	3.37121	2.29012
60	4.05 x	1.02451	0.69693	60	13.3 x	3.36125	2.28653
61	3.99	1.02150	0.69585	61	13.1	3.35136	2.28296
62	3.93	1.01850	0.69476	62	12.9	3.34155	2.27941
63	3.87	1.01553	0.69368	63	12.7	3.33180	2.27587
64	3.81	1.01258	0.69261	64	12.5	3.32213	2.27235
65	3.75 x	1.00966	0.69154	65	12.3 x	3.31252	2.26884
66	3.7	1.00675	0.69048	66	12.1	3.30298	2.26535
67	3.65	1.00386	0.68942	67	12	3.29352	2.26187
68	3.6	1.00100	0.68836	68	11.8	3.28411	2.25841
69	3.55	0.99815	0.68731	69	11.6	3.27478	2.25497
70	3.5 x	0.99533	0.68627	70	11.5 x	3.26551	2.25154
71	3.45	0.99252	0.68523	71	11.3	3.25631	2.24812

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Schneider Super Symmar - SSS 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	3.41	0.98974	0.68419	72	11.2	3.24717	2.24472
73	3.36	0.98697	0.68316	73	11	3.23809	2.24134
74	3.32	0.98422	0.68213	74	10.9	3.22908	2.23797
75	3.28 x	0.98150	0.68111	75	10.8 x	3.22013	2.23461
76	3.24	0.97879	0.68009	76	10.6	3.21125	2.23127
77	3.2	0.97610	0.67908	77	10.5	3.20242	2.22795
78	3.16	0.97343	0.67807	78	10.4	3.19365	2.22464
79	3.12	0.97077	0.67706	79	10.2	3.18495	2.22134
80	3.08 x	0.96814	0.67606	80	10.1 x	3.17630	2.21806
81	3.05	0.96552	0.67507	81	10	3.16772	2.21479
82	3.01	0.96292	0.67408	82	9.88	3.15919	2.21153
83	2.98	0.96034	0.67309	83	9.77	3.15072	2.20829
84	2.94	0.95777	0.67210	84	9.66	3.14230	2.20506
85	2.91 x	0.95523	0.67112	85	9.56 x	3.13394	2.20185
86	2.88	0.95270	0.67015	86	9.45	3.12564	2.19865
87	2.85	0.95018	0.66918	87	9.35	3.11740	2.19547
88	2.82	0.94769	0.66821	88	9.25	3.10921	2.19229
89	2.79	0.94521	0.66725	89	9.15	3.10107	2.18913
90	2.76 x	0.94274	0.66629	90	9.06 x	3.09299	2.18599
91	2.73	0.94029	0.66533	91	8.96	3.08496	2.18286
92	2.7	0.93786	0.66438	92	8.87	3.07698	2.17974
93	2.68	0.93545	0.66344	93	8.78	3.06905	2.17663
94	2.65	0.93305	0.66249	94	8.7	3.06118	2.17354
95	2.62 x	0.93066	0.66156	95	8.61 x	3.05336	2.17046
96	2.6	0.92829	0.66062	96	8.53	3.04559	2.16739
97	2.57	0.92594	0.65969	97	8.45	3.03787	2.16434
98	2.55	0.92360	0.65876	98	8.37	3.03019	2.16130
99	2.53	0.92128	0.65784	99	8.29	3.02257	2.15827
100	2.5 x	0.91897	0.65692	100	8.21 x	3.01500	2.15525
101	2.48	0.91668	0.65601	101	8.13	3.00747	2.15225
102	2.46	0.91440	0.65509	102	8.06	3.00000	2.14926
103	2.43	0.91213	0.65419	103	7.99	2.99257	2.14628
104	2.41	0.90988	0.65328	104	7.92	2.98518	2.14331
105	2.39 x	0.90765	0.65238	105	7.85 x	2.97785	2.14036
106	2.37	0.90543	0.65148	106	7.78	2.97056	2.13741
107	2.35	0.90322	0.65059	107	7.71	2.96331	2.13448

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Schneider Super Symmar - SSS 80

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	2.33	0.90102	0.64970	108	7.65	2.95612	2.13157
109	2.31	0.89884	0.64882	109	7.58	2.94896	2.12866
110	2.29 x	0.89668	0.64793	110	7.52 x	2.94185	2.12576
111	2.27	0.89452	0.64705	111	7.46	2.93479	2.12288
112	2.25	0.89238	0.64618	112	7.39	2.92776	2.12001
113	2.24	0.89026	0.64531	113	7.33	2.92079	2.11715
114	2.22	0.88814	0.64444	114	7.27	2.91385	2.11430
115	2.2 x	0.88604	0.64358	115	7.22 x	2.90696	2.11147
116	2.18	0.88395	0.64271	116	7.16	2.90011	2.10864
117	2.17	0.88188	0.64186	117	7.1	2.89330	2.10583
118	2.15	0.87981	0.64100	118	7.05	2.88653	2.10303
119	2.13	0.87776	0.64015	119	6.99	2.87980	2.10024
120	2.12 x	0.87573	0.63930	120	6.94 x	2.87311	2.09746
121	2.1	0.87370	0.63846	121	6.89	2.86647	2.09469
122	2.08	0.87169	0.63762	122	6.84	2.85986	2.09193
123	2.07	0.86968	0.63678	123	6.79	2.85329	2.08918
124	2.05	0.86769	0.63595	124	6.74	2.84677	2.08645
125	2.04 x	0.86572	0.63512	125	6.69 x	2.84028	2.08372
126	2.02	0.86375	0.63429	126	6.64	2.83383	2.08101
127	2.01	0.86180	0.63347	127	6.59	2.82741	2.07831
128	1.99	0.85985	0.63265	128	6.54	2.82104	2.07561
129	1.98	0.85792	0.63183	129	6.5	2.81470	2.07293
130	1.97 x	0.85600	0.63102	130	6.45 x	2.80840	2.07026
131	1.95	0.85409	0.63020	131	6.41	2.80214	2.06760
132	1.94	0.85219	0.62940	132	6.36	2.79591	2.06495
133	1.93	0.85031	0.62859	133	6.32	2.78972	2.06231
134	1.91	0.84843	0.62779	134	6.28	2.78357	2.05968
135	1.9 x	0.84657	0.62699	135	6.24 x	2.77745	2.05706
136	1.89	0.84471	0.62620	136	6.19	2.77136	2.05445
137	1.88	0.84287	0.62540	137	6.15	2.76532	2.05185
138	1.86	0.84104	0.62461	138	6.11	2.75930	2.04926
139	1.85	0.83921	0.62383	139	6.07	2.75332	2.04668
140	1.84 x	0.83740	0.62304	140	6.03 x	2.74738	2.04411
141	1.83	0.83560	0.62226	141	6	2.74146	2.04155
142	1.82	0.83381	0.62149	142	5.96	2.73559	2.03900
143	1.8	0.83203	0.62071	143	5.92	2.72974	2.03646

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Schneider Super Symmar - SSS 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	1.79	0.83025	0.61994	144	5.88	2.72393	2.03393
145	1.78 x	0.82849	0.61917	145	5.85 x	2.71815	2.03141
146	1.77	0.82674	0.61841	146	5.81	2.71240	2.02890
147	1.76	0.82500	0.61765	147	5.78	2.70669	2.02640
148	1.75	0.82327	0.61689	148	5.74	2.70101	2.02391
149	1.74	0.82154	0.61613	149	5.71	2.69535	2.02143
150	1.73 x	0.81983	0.61538	150	5.67 x	2.68974	2.01895
151	1.72	0.81813	0.61463	151	5.64	2.68415	2.01649
152	1.71	0.81643	0.61388	152	5.6	2.67859	2.01404
153	1.7	0.81475	0.61313	153	5.57	2.67306	2.01159
154	1.69	0.81307	0.61239	154	5.54	2.66756	2.00916
155	1.68 x	0.81141	0.61165	155	5.51 x	2.66210	2.00673
156	1.67	0.80975	0.61091	156	5.48	2.65666	2.00431
157	1.66	0.80810	0.61018	157	5.45	2.65125	2.00190
158	1.65	0.80646	0.60945	158	5.41	2.64588	1.99951
159	1.64	0.80483	0.60872	159	5.38	2.64053	1.99712
160	1.63 x	0.80321	0.60799	160	5.35 x	2.63521	1.99473
161	1.62	0.80160	0.60727	161	5.33	2.62992	1.99236
162	1.61	0.79999	0.60655	162	5.3	2.62466	1.99000
163	1.61	0.79840	0.60583	163	5.27	2.61942	1.98764
164	1.6	0.79681	0.60512	164	5.24	2.61422	1.98530
165	1.59 x	0.79523	0.60441	165	5.21 x	2.60904	1.98296
166	1.58	0.79366	0.60370	166	5.18	2.60389	1.98063
167	1.57	0.79210	0.60299	167	5.16	2.59876	1.97831
168	1.56	0.79055	0.60228	168	5.13	2.59367	1.97600
169	1.55	0.78900	0.60158	169	5.1	2.58860	1.97370
170	1.55 x	0.78747	0.60088	170	5.08 x	2.58355	1.97140
171	1.54	0.78594	0.60019	171	5.05	2.57854	1.96912
172	1.53	0.78442	0.59949	172	5.02	2.57355	1.96684
173	1.52	0.78290	0.59880	173	5	2.56859	1.96457
174	1.52	0.78140	0.59811	174	4.97	2.56365	1.96231
175	1.51 x	0.77990	0.59742	175	4.95 x	2.55874	1.96006
176	1.5	0.77841	0.59674	176	4.92	2.55385	1.95781
177	1.49	0.77693	0.59606	177	4.9	2.54899	1.95557
178	1.49	0.77546	0.59538	178	4.87	2.54415	1.95335
179	1.48	0.77399	0.59470	179	4.85	2.53934	1.95112

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Schneider Super Symmar - SSS 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	1.47 x	0.77253	0.59403	180	4.83 x	2.53456	1.94891
181	1.46	0.77108	0.59336	181	4.8	2.52979	1.94671
182	1.46	0.76964	0.59269	182	4.78	2.52506	1.94451
183	1.45	0.76820	0.59202	183	4.76	2.52034	1.94232
184	1.44	0.76677	0.59136	184	4.73	2.51565	1.94014
185	1.44 x	0.76535	0.59069	185	4.71 x	2.51099	1.93797
186	1.43	0.76393	0.59003	186	4.69	2.50635	1.93580
187	1.42	0.76253	0.58938	187	4.67	2.50173	1.93365
188	1.42	0.76113	0.58872	188	4.65	2.49713	1.93150
189	1.41	0.75973	0.58807	189	4.63	2.49256	1.92936
190	1.4 x	0.75835	0.58742	190	4.6 x	2.48801	1.92722
191	1.4	0.75697	0.58677	191	4.58	2.48349	1.92509
192	1.39	0.75559	0.58612	192	4.56	2.47899	1.92298
193	1.38	0.75423	0.58548	193	4.54	2.47450	1.92086
194	1.38	0.75287	0.58484	194	4.52	2.47005	1.91876
195	1.37 x	0.75152	0.58420	195	4.5 x	2.46561	1.91666
196	1.37	0.75017	0.58356	196	4.48	2.46120	1.91457
197	1.36	0.74883	0.58293	197	4.46	2.45680	1.91249
198	1.35	0.74750	0.58229	198	4.44	2.45243	1.91042
199	1.35	0.74618	0.58166	199	4.42	2.44808	1.90835
200	1.34 x	0.74486	0.58104	200	4.4 x	2.44376	1.90629
201	1.34	0.74354	0.58041	201	4.39	2.43945	1.90424
202	1.33	0.74224	0.57979	202	4.37	2.43516	1.90219
203	1.33	0.74094	0.57917	203	4.35	2.43090	1.90015
204	1.32	0.73964	0.57855	204	4.33	2.42665	1.89812
205	1.31 x	0.73836	0.57793	205	4.31 x	2.42243	1.89610
206	1.31	0.73708	0.57731	206	4.29	2.41823	1.89408
207	1.3	0.73580	0.57670	207	4.28	2.41404	1.89207
208	1.3	0.73453	0.57609	208	4.26	2.40988	1.89006
209	1.29	0.73327	0.57548	209	4.24	2.40574	1.88807
210	1.29 x	0.73201	0.57488	210	4.22 x	2.40162	1.88608
211	1.28	0.73076	0.57427	211	4.21	2.39751	1.88409
212	1.28	0.72952	0.57367	212	4.19	2.39343	1.88212
213	1.27	0.72828	0.57307	213	4.17	2.38937	1.88015
214	1.27	0.72705	0.57247	214	4.16	2.38532	1.87819
215	1.26 x	0.72582	0.57188	215	4.14 x	2.38130	1.87623

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Schneider Super Symmar - SSS 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.26	0.72460	0.57128	216	4.12	2.37729	1.87428
217	1.25	0.72338	0.57069	217	4.11	2.37330	1.87234
218	1.25	0.72217	0.57010	218	4.09	2.36933	1.87040
219	1.24	0.72097	0.56951	219	4.08	2.36538	1.86847
220	1.24 x	0.71977	0.56892	220	4.06 x	2.36145	1.86655
221	1.23	0.71858	0.56834	221	4.04	2.35754	1.86464
222	1.23	0.71739	0.56776	222	4.03	2.35365	1.86273
223	1.22	0.71621	0.56718	223	4.01	2.34977	1.86082
224	1.22	0.71503	0.56660	224	4	2.34591	1.85893
225	1.21 x	0.71386	0.56602	225	3.98 x	2.34207	1.85704
226	1.21	0.71270	0.56545	226	3.97	2.33825	1.85515
227	1.21	0.71154	0.56488	227	3.95	2.33444	1.85327
228	1.2	0.71038	0.56431	228	3.94	2.33065	1.85140
229	1.2	0.70923	0.56374	229	3.92	2.32688	1.84954
230	1.19 x	0.70809	0.56317	230	3.91 x	2.32313	1.84768
231	1.19	0.70695	0.56261	231	3.9	2.31940	1.84583
232	1.18	0.70582	0.56204	232	3.88	2.31568	1.84398
233	1.18	0.70469	0.56148	233	3.87	2.31198	1.84214
234	1.17	0.70357	0.56092	234	3.85	2.30829	1.84031
235	1.17 x	0.70245	0.56037	235	3.84 x	2.30462	1.83848
236	1.17	0.70134	0.55981	236	3.83	2.30097	1.83666
237	1.16	0.70023	0.55926	237	3.81	2.29734	1.83484
238	1.16	0.69913	0.55871	238	3.8	2.29372	1.83303
239	1.15	0.69803	0.55816	239	3.79	2.29012	1.83123
240	1.15 x	0.69693	0.55761	240	3.77 x	2.28653	1.82943
241	1.15	0.69585	0.55706	241	3.76	2.28296	1.82764
242	1.14	0.69476	0.55652	242	3.75	2.27941	1.82585
243	1.14	0.69368	0.55598	243	3.73	2.27587	1.82407
244	1.13	0.69261	0.55544	244	3.72	2.27235	1.82229
245	1.13 x	0.69154	0.55490	245	3.71 x	2.26884	1.82053
246	1.13	0.69048	0.55436	246	3.7	2.26535	1.81876
247	1.12	0.68942	0.55382	247	3.68	2.26187	1.81701
248	1.12	0.68836	0.55329	248	3.67	2.25841	1.81526
249	1.12	0.68731	0.55276	249	3.66	2.25497	1.81351
250	1.11 x	0.68627	0.55223	250	3.65 x	2.25154	1.81177
251	1.11	0.68523	0.55170	251	3.63	2.24812	1.81004

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Schneider Super Symmar - SSS 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	1.1	0.68419	0.55117	252	3.62	2.24472	1.80831
253	1.1	0.68316	0.55065	253	3.61	2.24134	1.80658
254	1.1	0.68213	0.55012	254	3.6	2.23797	1.80487
255	1.09 x	0.68111	0.54960	255	3.59 x	2.23461	1.80316
256	1.09	0.68009	0.54908	256	3.58	2.23127	1.80145
257	1.09	0.67908	0.54856	257	3.56	2.22795	1.79975
258	1.08	0.67807	0.54805	258	3.55	2.22464	1.79805
259	1.08	0.67706	0.54753	259	3.54	2.22134	1.79636
260	1.08 x	0.67606	0.54702	260	3.53 x	2.21806	1.79468
261	1.07	0.67507	0.54651	261	3.52	2.21479	1.79300
262	1.07	0.67408	0.54600	262	3.51	2.21153	1.79133
263	1.07	0.67309	0.54549	263	3.5	2.20829	1.78966
264	1.06	0.67210	0.54498	264	3.49	2.20506	1.78799
265	1.06 x	0.67112	0.54448	265	3.47 x	2.20185	1.78634
266	1.06	0.67015	0.54397	266	3.46	2.19865	1.78468
267	1.05	0.66918	0.54347	267	3.45	2.19547	1.78304
268	1.05	0.66821	0.54297	268	3.44	2.19229	1.78140
269	1.05	0.66725	0.54247	269	3.43	2.18913	1.77976
270	1.04 x	0.66629	0.54197	270	3.42 x	2.18599	1.77813

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Schneider Apo-Digitar - SAD 80

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.24062	0.75664	0	∞	XX	4.07028	2.48243
1	233	XX	1.23569	0.75519	1	763	XX	4.05411	2.47767
2	116	XX	1.23081	0.75375	2	382	XX	4.03809	2.47294
3	77.6	XX	1.22597	0.75232	3	255	XX	4.02221	2.46823
4	58.2	XX	1.22117	0.75089	4	191	XX	4.00648	2.46354
5	46.6	X	1.21642	0.74947	5	153	X	3.99089	2.45888
6	38.9		1.21171	0.74805	6	128		3.97544	2.45424
7	33.4		1.20705	0.74665	7	109		3.96013	2.44963
8	29.2		1.20243	0.74525	8	95.8		3.94496	2.44504
9	26		1.19784	0.74385	9	85.2		3.92993	2.44047
10	23.4	X	1.19330	0.74247	10	76.8	X	3.91503	2.43592
11	21.3		1.18880	0.74109	11	69.8		3.90026	2.43140
12	19.5		1.18434	0.73972	12	64.1		3.88562	2.42690
13	18		1.17991	0.73835	13	59.2		3.87111	2.42242
14	16.8		1.17553	0.73700	14	55		3.85673	2.41797
15	15.7	X	1.17119	0.73565	15	51.3	X	3.84247	2.41354
16	14.7		1.16688	0.73430	16	48.2		3.82834	2.40912
17	13.8		1.16261	0.73296	17	45.4		3.81433	2.40474
18	13.1		1.15837	0.73163	18	42.9		3.80043	2.40037
19	12.4		1.15417	0.73031	19	40.6		3.78666	2.39602
20	11.8	X	1.15001	0.72899	20	38.6	X	3.77301	2.39170
21	11.2		1.14589	0.72768	21	36.8		3.75947	2.38739
22	10.7		1.14179	0.72637	22	35.2		3.74604	2.38311
23	10.3		1.13774	0.72507	23	33.7		3.73273	2.37885
24	9.84		1.13371	0.72378	24	32.3		3.71953	2.37461
25	9.45	X	1.12972	0.72249	25	31	X	3.70645	2.37039
26	9.1		1.12577	0.72121	26	29.8		3.69346	2.36619
27	8.77		1.12184	0.71994	27	28.8		3.68059	2.36201
28	8.46		1.11795	0.71867	28	27.8		3.66783	2.35785
29	8.17		1.11409	0.71741	29	26.8		3.65516	2.35371
30	7.91	X	1.11027	0.71616	30	25.9	X	3.64261	2.34959
31	7.66		1.10647	0.71491	31	25.1		3.63015	2.34549
32	7.42		1.10270	0.71366	32	24.3		3.61780	2.34141
33	7.2		1.09897	0.71242	33	23.6		3.60554	2.33735
34	6.99		1.09526	0.71119	34	22.9		3.59339	2.33331
35	6.8	X	1.09159	0.70997	35	22.3	X	3.58133	2.32929

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Schneider Apo-Digitar - SAD 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	6.61	1.08794	0.70875	36	21.7	3.56937	2.32528
37	6.44	1.08433	0.70753	37	21.1	3.55750	2.32130
38	6.27	1.08074	0.70632	38	20.6	3.54573	2.31733
39	6.12	1.07718	0.70512	39	20.1	3.53405	2.31339
40	5.97 x	1.07365	0.70392	40	19.6 x	3.52247	2.30946
41	5.83	1.07014	0.70273	41	19.1	3.51097	2.30555
42	5.69	1.06667	0.70154	42	18.7	3.49956	2.30166
43	5.56	1.06322	0.70036	43	18.3	3.48825	2.29778
44	5.44	1.05979	0.69919	44	17.9	3.47702	2.29393
45	5.32 x	1.05640	0.69802	45	17.5 x	3.46587	2.29009
46	5.21	1.05303	0.69685	46	17.1	3.45482	2.28627
47	5.1	1.04968	0.69570	47	16.7	3.44384	2.28247
48	5	1.04636	0.69454	48	16.4	3.43295	2.27868
49	4.9	1.04307	0.69339	49	16.1	3.42215	2.27492
50	4.81 x	1.03980	0.69225	50	15.8 x	3.41143	2.27117
51	4.72	1.03656	0.69111	51	15.5	3.40078	2.26743
52	4.63	1.03334	0.68998	52	15.2	3.39022	2.26372
53	4.54	1.03014	0.68885	53	14.9	3.37974	2.26002
54	4.46	1.02697	0.68773	54	14.6	3.36933	2.25634
55	4.39 x	1.02382	0.68661	55	14.4 x	3.35900	2.25267
56	4.31	1.02070	0.68550	56	14.1	3.34875	2.24902
57	4.24	1.01760	0.68439	57	13.9	3.33858	2.24539
58	4.17	1.01452	0.68329	58	13.7	3.32848	2.24177
59	4.1	1.01146	0.68220	59	13.4	3.31845	2.23818
60	4.03 x	1.00843	0.68110	60	13.2 x	3.30850	2.23459
61	3.97	1.00542	0.68002	61	13	3.29862	2.23103
62	3.91	1.00243	0.67893	62	12.8	3.28881	2.22747
63	3.85	0.99946	0.67786	63	12.6	3.27907	2.22394
64	3.79	0.99651	0.67678	64	12.4	3.26940	2.22042
65	3.74 x	0.99359	0.67572	65	12.3 x	3.25981	2.21692
66	3.68	0.99068	0.67465	66	12.1	3.25028	2.21343
67	3.63	0.98780	0.67359	67	11.9	3.24081	2.20995
68	3.58	0.98494	0.67254	68	11.7	3.23142	2.20650
69	3.53	0.98209	0.67149	69	11.6	3.22209	2.20305
70	3.48 x	0.97927	0.67045	70	11.4 x	3.21283	2.19963
71	3.43	0.97647	0.66941	71	11.3	3.20363	2.19622

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Schneider Apo-Digitar - SAD 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	3.39	0.97368	0.66837	72	11.1	3.19450	2.19282
73	3.34	0.97092	0.66734	73	11	3.18543	2.18944
74	3.3	0.96818	0.66631	74	10.8	3.17643	2.18607
75	3.26 x	0.96545	0.66529	75	10.7 x	3.16749	2.18272
76	3.22	0.96274	0.66427	76	10.6	3.15861	2.17938
77	3.18	0.96006	0.66326	77	10.4	3.14979	2.17606
78	3.14	0.95739	0.66225	78	10.3	3.14103	2.17275
79	3.1	0.95473	0.66125	79	10.2	3.13233	2.16945
80	3.07 x	0.95210	0.66025	80	10.1 x	3.12369	2.16617
81	3.03	0.94949	0.65925	81	9.94	3.11511	2.16290
82	2.99	0.94689	0.65826	82	9.83	3.10659	2.15965
83	2.96	0.94431	0.65727	83	9.71	3.09812	2.15641
84	2.93	0.94175	0.65629	84	9.6	3.08972	2.15319
85	2.89 x	0.93920	0.65531	85	9.5 x	3.08136	2.14998
86	2.86	0.93667	0.65434	86	9.39	3.07307	2.14678
87	2.83	0.93416	0.65337	87	9.29	3.06483	2.14360
88	2.8	0.93166	0.65240	88	9.19	3.05664	2.14043
89	2.77	0.92919	0.65144	89	9.1	3.04851	2.13727
90	2.74 x	0.92672	0.65048	90	9 x	3.04044	2.13413
91	2.71	0.92428	0.64953	91	8.91	3.03241	2.13100
92	2.69	0.92185	0.64858	92	8.82	3.02444	2.12788
93	2.66	0.91944	0.64763	93	8.73	3.01652	2.12478
94	2.63	0.91704	0.64669	94	8.64	3.00865	2.12169
95	2.61 x	0.91466	0.64575	95	8.55 x	3.00084	2.11861
96	2.58	0.91229	0.64482	96	8.47	2.99307	2.11555
97	2.56	0.90994	0.64389	97	8.39	2.98536	2.11249
98	2.53	0.90760	0.64296	98	8.31	2.97769	2.10945
99	2.51	0.90528	0.64204	99	8.23	2.97008	2.10643
100	2.49 x	0.90297	0.64112	100	8.15 x	2.96251	2.10341
101	2.46	0.90068	0.64021	101	8.08	2.95499	2.10041
102	2.44	0.89840	0.63929	102	8	2.94752	2.09742
103	2.42	0.89614	0.63839	103	7.93	2.94009	2.09445
104	2.4	0.89389	0.63748	104	7.86	2.93272	2.09148
105	2.37 x	0.89166	0.63658	105	7.79 x	2.92539	2.08853
106	2.35	0.88944	0.63569	106	7.72	2.91810	2.08559
107	2.33	0.88723	0.63480	107	7.66	2.91086	2.08266

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Schneider Apo-Digitar - SAD 80

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	2.31	0.88504	0.63391	108	7.59	2.90367	2.07975
109	2.29	0.88286	0.63302	109	7.53	2.89652	2.07684
110	2.27 x	0.88069	0.63214	110	7.46 x	2.88942	2.07395
111	2.26	0.87854	0.63126	111	7.4	2.88236	2.07107
112	2.24	0.87640	0.63039	112	7.34	2.87534	2.06820
113	2.22	0.87428	0.62952	113	7.28	2.86837	2.06534
114	2.2	0.87217	0.62865	114	7.22	2.86144	2.06250
115	2.18 x	0.87007	0.62779	115	7.16 x	2.85455	2.05966
116	2.17	0.86798	0.62693	116	7.1	2.84770	2.05684
117	2.15	0.86591	0.62607	117	7.05	2.84090	2.05403
118	2.13	0.86384	0.62522	118	6.99	2.83413	2.05123
119	2.11	0.86180	0.62436	119	6.94	2.82741	2.04844
120	2.1 x	0.85976	0.62352	120	6.89 x	2.82073	2.04566
121	2.08	0.85773	0.62268	121	6.83	2.81409	2.04290
122	2.07	0.85572	0.62184	122	6.78	2.80749	2.04014
123	2.05	0.85372	0.62100	123	6.73	2.80093	2.03740
124	2.04	0.85173	0.62017	124	6.68	2.79440	2.03466
125	2.02 x	0.84976	0.61934	125	6.63 x	2.78792	2.03194
126	2.01	0.84779	0.61851	126	6.58	2.78147	2.02923
127	1.99	0.84584	0.61769	127	6.54	2.77506	2.02653
128	1.98	0.84390	0.61687	128	6.49	2.76869	2.02384
129	1.96	0.84197	0.61605	129	6.44	2.76236	2.02116
130	1.95 x	0.84005	0.61524	130	6.4 x	2.75607	2.01849
131	1.94	0.83814	0.61442	131	6.35	2.74981	2.01583
132	1.92	0.83625	0.61362	132	6.31	2.74359	2.01318
133	1.91	0.83436	0.61281	133	6.27	2.73740	2.01054
134	1.9	0.83249	0.61201	134	6.22	2.73125	2.00791
135	1.88 x	0.83062	0.61121	135	6.18 x	2.72514	2.00530
136	1.87	0.82877	0.61042	136	6.14	2.71906	2.00269
137	1.86	0.82693	0.60963	137	6.1	2.71301	2.00009
138	1.85	0.82509	0.60884	138	6.06	2.70700	1.99750
139	1.83	0.82327	0.60805	139	6.02	2.70103	1.99493
140	1.82 x	0.82146	0.60727	140	5.98 x	2.69509	1.99236
141	1.81	0.81966	0.60649	141	5.94	2.68918	1.98980
142	1.8	0.81787	0.60572	142	5.9	2.68331	1.98725
143	1.79	0.81609	0.60494	143	5.87	2.67747	1.98472

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Schneider Apo-Digitar - SAD 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	1.78	0.81432	0.60417	144	5.83	2.67166	1.98219
145	1.77 x	0.81256	0.60340	145	5.79 x	2.66588	1.97967
146	1.75	0.81081	0.60264	146	5.76	2.66014	1.97716
147	1.74	0.80907	0.60188	147	5.72	2.65443	1.97466
148	1.73	0.80734	0.60112	148	5.69	2.64875	1.97217
149	1.72	0.80562	0.60036	149	5.65	2.64311	1.96969
150	1.71 x	0.80391	0.59961	150	5.62 x	2.63749	1.96722
151	1.7	0.80220	0.59886	151	5.58	2.63191	1.96476
152	1.69	0.80051	0.59811	152	5.55	2.62635	1.96231
153	1.68	0.79883	0.59737	153	5.52	2.62083	1.95987
154	1.67	0.79715	0.59663	154	5.49	2.61534	1.95743
155	1.66 x	0.79549	0.59589	155	5.45 x	2.60987	1.95501
156	1.65	0.79383	0.59515	156	5.42	2.60444	1.95259
157	1.64	0.79219	0.59442	157	5.39	2.59904	1.95019
158	1.63	0.79055	0.59369	158	5.36	2.59367	1.94779
159	1.62	0.78892	0.59296	159	5.33	2.58832	1.94540
160	1.62 x	0.78730	0.59223	160	5.3 x	2.58301	1.94302
161	1.61	0.78569	0.59151	161	5.27	2.57772	1.94065
162	1.6	0.78409	0.59079	162	5.24	2.57246	1.93829
163	1.59	0.78249	0.59007	163	5.21	2.56723	1.93594
164	1.58	0.78091	0.58936	164	5.18	2.56203	1.93359
165	1.57 x	0.77933	0.58865	165	5.16 x	2.55685	1.93126
166	1.56	0.77776	0.58794	166	5.13	2.55171	1.92893
167	1.55	0.77620	0.58723	167	5.1	2.54659	1.92661
168	1.55	0.77465	0.58653	168	5.07	2.54149	1.92430
169	1.54	0.77310	0.58583	169	5.05	2.53643	1.92200
170	1.53 x	0.77157	0.58513	170	5.02 x	2.53139	1.91971
171	1.52	0.77004	0.58443	171	4.99	2.52638	1.91742
172	1.51	0.76852	0.58374	172	4.97	2.52139	1.91515
173	1.51	0.76701	0.58305	173	4.94	2.51643	1.91288
174	1.5	0.76550	0.58236	174	4.92	2.51150	1.91062
175	1.49 x	0.76401	0.58167	175	4.89 x	2.50659	1.90837
176	1.48	0.76252	0.58099	176	4.87	2.50171	1.90613
177	1.48	0.76104	0.58031	177	4.84	2.49685	1.90389
178	1.47	0.75957	0.57963	178	4.82	2.49202	1.90166
179	1.46	0.75810	0.57895	179	4.8	2.48721	1.89945

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Schneider Apo-Digitar - SAD 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	1.45 x	0.75664	0.57828	180	4.77 x	2.48243	1.89723
181	1.45	0.75519	0.57761	181	4.75	2.47767	1.89503
182	1.44	0.75375	0.57694	182	4.73	2.47294	1.89284
183	1.43	0.75232	0.57627	183	4.7	2.46823	1.89065
184	1.43	0.75089	0.57561	184	4.68	2.46354	1.88847
185	1.42 x	0.74947	0.57494	185	4.66 x	2.45888	1.88630
186	1.41	0.74805	0.57429	186	4.64	2.45424	1.88414
187	1.41	0.74665	0.57363	187	4.61	2.44963	1.88198
188	1.4	0.74525	0.57297	188	4.59	2.44504	1.87983
189	1.39	0.74385	0.57232	189	4.57	2.44047	1.87769
190	1.39 x	0.74247	0.57167	190	4.55 x	2.43592	1.87556
191	1.38	0.74109	0.57102	191	4.53	2.43140	1.87344
192	1.37	0.73972	0.57038	192	4.51	2.42690	1.87132
193	1.37	0.73835	0.56973	193	4.49	2.42242	1.86921
194	1.36	0.73700	0.56909	194	4.47	2.41797	1.86711
195	1.36 x	0.73565	0.56846	195	4.45 x	2.41354	1.86501
196	1.35	0.73430	0.56782	196	4.43	2.40912	1.86292
197	1.34	0.73296	0.56718	197	4.41	2.40474	1.86084
198	1.34	0.73163	0.56655	198	4.39	2.40037	1.85877
199	1.33	0.73031	0.56592	199	4.37	2.39602	1.85670
200	1.33 x	0.72899	0.56530	200	4.35 x	2.39170	1.85464
201	1.32	0.72768	0.56467	201	4.33	2.38739	1.85259
202	1.31	0.72637	0.56405	202	4.31	2.38311	1.85055
203	1.31	0.72507	0.56343	203	4.3	2.37885	1.84851
204	1.3	0.72378	0.56281	204	4.28	2.37461	1.84648
205	1.3 x	0.72249	0.56219	205	4.26 x	2.37039	1.84446
206	1.29	0.72121	0.56158	206	4.24	2.36619	1.84244
207	1.29	0.71994	0.56096	207	4.22	2.36201	1.84043
208	1.28	0.71867	0.56035	208	4.21	2.35785	1.83843
209	1.28	0.71741	0.55975	209	4.19	2.35371	1.83644
210	1.27 x	0.71616	0.55914	210	4.17 x	2.34959	1.83445
211	1.27	0.71491	0.55854	211	4.15	2.34549	1.83247
212	1.26	0.71366	0.55793	212	4.14	2.34141	1.83049
213	1.26	0.71242	0.55733	213	4.12	2.33735	1.82852
214	1.25	0.71119	0.55674	214	4.1	2.33331	1.82656
215	1.25 x	0.70997	0.55614	215	4.09 x	2.32929	1.82461

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Schneider Apo-Digitar - SAD 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.24	0.70875	0.55555	216	4.07	2.32528	1.82266
217	1.24	0.70753	0.55496	217	4.05	2.32130	1.82072
218	1.23	0.70632	0.55437	218	4.04	2.31733	1.81879
219	1.23	0.70512	0.55378	219	4.02	2.31339	1.81686
220	1.22 x	0.70392	0.55319	220	4.01 x	2.30946	1.81494
221	1.22	0.70273	0.55261	221	3.99	2.30555	1.81302
222	1.21	0.70154	0.55203	222	3.98	2.30166	1.81112
223	1.21	0.70036	0.55145	223	3.96	2.29778	1.80921
224	1.2	0.69919	0.55087	224	3.94	2.29393	1.80732
225	1.2 x	0.69802	0.55029	225	3.93 x	2.29009	1.80543
226	1.19	0.69685	0.54972	226	3.92	2.28627	1.80355
227	1.19	0.69570	0.54915	227	3.9	2.28247	1.80167
228	1.18	0.69454	0.54858	228	3.89	2.27868	1.79980
229	1.18	0.69339	0.54801	229	3.87	2.27492	1.79794
230	1.18 x	0.69225	0.54745	230	3.86 x	2.27117	1.79608
231	1.17	0.69111	0.54688	231	3.84	2.26743	1.79423
232	1.17	0.68998	0.54632	232	3.83	2.26372	1.79238
233	1.16	0.68885	0.54576	233	3.81	2.26002	1.79054
234	1.16	0.68773	0.54520	234	3.8	2.25634	1.78871
235	1.15 x	0.68661	0.54464	235	3.79 x	2.25267	1.78689
236	1.15	0.68550	0.54409	236	3.77	2.24902	1.78507
237	1.15	0.68439	0.54353	237	3.76	2.24539	1.78325
238	1.14	0.68329	0.54298	238	3.75	2.24177	1.78144
239	1.14	0.68220	0.54243	239	3.73	2.23818	1.77964
240	1.13 x	0.68110	0.54189	240	3.72 x	2.23459	1.77784
241	1.13	0.68002	0.54134	241	3.71	2.23103	1.77605
242	1.13	0.67893	0.54080	242	3.69	2.22747	1.77427
243	1.12	0.67786	0.54025	243	3.68	2.22394	1.77249
244	1.12	0.67678	0.53971	244	3.67	2.22042	1.77072
245	1.11 x	0.67572	0.53918	245	3.66 x	2.21692	1.76895
246	1.11	0.67465	0.53864	246	3.64	2.21343	1.76719
247	1.11	0.67359	0.53810	247	3.63	2.20995	1.76543
248	1.1	0.67254	0.53757	248	3.62	2.20650	1.76368
249	1.1	0.67149	0.53704	249	3.61	2.20305	1.76194
250	1.1 x	0.67045	0.53651	250	3.59 x	2.19963	1.76020
251	1.09	0.66941	0.53598	251	3.58	2.19622	1.75847

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Schneider Apo-Digitar - SAD 80

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	1.09	0.66837	0.53545	252	3.57	2.19282	1.75674
253	1.08	0.66734	0.53493	253	3.56	2.18944	1.75502
254	1.08	0.66631	0.53441	254	3.55	2.18607	1.75330
255	1.08 x	0.66529	0.53389	255	3.53 x	2.18272	1.75159
256	1.07	0.66427	0.53337	256	3.52	2.17938	1.74989
257	1.07	0.66326	0.53285	257	3.51	2.17606	1.74819
258	1.07	0.66225	0.53233	258	3.5	2.17275	1.74649
259	1.06	0.66125	0.53182	259	3.49	2.16945	1.74480
260	1.06 x	0.66025	0.53130	260	3.48 x	2.16617	1.74312
261	1.06	0.65925	0.53079	261	3.47	2.16290	1.74144
262	1.05	0.65826	0.53028	262	3.45	2.15965	1.73977
263	1.05	0.65727	0.52977	263	3.44	2.15641	1.73810
264	1.05	0.65629	0.52927	264	3.43	2.15319	1.73644
265	1.04 x	0.65531	0.52876	265	3.42 x	2.14998	1.73479
266	1.04	0.65434	0.52826	266	3.41	2.14678	1.73314
267	1.04	0.65337	0.52776	267	3.4	2.14360	1.73149
268	1.03	0.65240	0.52726	268	3.39	2.14043	1.72985
269	1.03	0.65144	0.52676	269	3.38	2.13727	1.72821
270	1.03 x	0.65048	0.52626	270	3.37 x	2.13413	1.72658

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Schneider Super-Angulon - SSA 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.59439	0.97631	0	∞	XX	5.23094	3.20311
1	296	XX	1.58810	0.97445	1	972	XX	5.21030	3.19702
2	148	XX	1.58187	0.97261	2	486	XX	5.18986	3.19096
3	98.9	XX	1.57569	0.97077	3	325	XX	5.16960	3.18494
4	74.2	XX	1.56958	0.96894	4	244	XX	5.14953	3.17894
5	59.4	X	1.56352	0.96712	5	195	X	5.12964	3.17298
6	49.6		1.55751	0.96531	6	163		5.10993	3.16704
7	42.5		1.55155	0.96351	7	139		5.09040	3.16114
8	37.2		1.54566	0.96172	8	122		5.07105	3.15526
9	33.1		1.53981	0.95994	9	109		5.05186	3.14942
10	29.8	X	1.53401	0.95817	10	97.9	X	5.03285	3.14360
11	27.1		1.52827	0.95641	11	89		5.01401	3.13781
12	24.9		1.52258	0.95465	12	81.7		4.99533	3.13205
13	23		1.51693	0.95290	13	75.4		4.97682	3.12632
14	21.4		1.51134	0.95117	14	70.1		4.95846	3.12062
15	20	X	1.50579	0.94944	15	65.5	X	4.94027	3.11495
16	18.7		1.50030	0.94772	16	61.4		4.92224	3.10930
17	17.6		1.49485	0.94600	17	57.9		4.90436	3.10368
18	16.7		1.48944	0.94430	18	54.7		4.88663	3.09809
19	15.8		1.48409	0.94260	19	51.8		4.86906	3.09253
20	15	X	1.47878	0.94092	20	49.3	X	4.85163	3.08700
21	14.3		1.47351	0.93924	21	47		4.83435	3.08149
22	13.7		1.46829	0.93757	22	44.9		4.81722	3.07601
23	13.1		1.46311	0.93590	23	43		4.80024	3.07055
24	12.6		1.45798	0.93425	24	41.2		4.78339	3.06512
25	12.1	X	1.45289	0.93260	25	39.6	X	4.76669	3.05972
26	11.6		1.44784	0.93096	26	38.1		4.75012	3.05434
27	11.2		1.44283	0.92933	27	36.7		4.73370	3.04899
28	10.8		1.43786	0.92771	28	35.4		4.71740	3.04367
29	10.4		1.43294	0.92609	29	34.2		4.70124	3.03837
30	10.1	X	1.42805	0.92449	30	33.1	X	4.68522	3.03309
31	9.77		1.42321	0.92289	31	32.1		4.66932	3.02784
32	9.47		1.41840	0.92129	32	31.1		4.65355	3.02262
33	9.19		1.41364	0.91971	33	30.2		4.63791	3.01742
34	8.93		1.40891	0.91813	34	29.3		4.62240	3.01224
35	8.68	X	1.40422	0.91656	35	28.5	X	4.60701	3.00709

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Schneider Super-Angulon - SSA 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	8.44	1.39956	0.91500	36	27.7	4.59174	3.00197
37	8.22	1.39495	0.91344	37	27	4.57660	2.99687
38	8.01	1.39037	0.91190	38	26.3	4.56157	2.99179
39	7.81	1.38582	0.91036	39	25.6	4.54667	2.98673
40	7.62 x	1.38132	0.90882	40	25 x	4.53188	2.98170
41	7.44	1.37684	0.90730	41	24.4	4.51720	2.97669
42	7.27	1.37241	0.90578	42	23.8	4.50264	2.97171
43	7.1	1.36800	0.90427	43	23.3	4.48820	2.96675
44	6.95	1.36363	0.90276	44	22.8	4.47386	2.96181
45	6.8 x	1.35930	0.90126	45	22.3 x	4.45964	2.95690
46	6.66	1.35500	0.89977	46	21.8	4.44552	2.95200
47	6.52	1.35073	0.89829	47	21.4	4.43152	2.94713
48	6.39	1.34649	0.89681	48	21	4.41762	2.94229
49	6.26	1.34229	0.89534	49	20.5	4.40382	2.93746
50	6.14 x	1.33811	0.89387	50	20.1 x	4.39013	2.93266
51	6.02	1.33397	0.89242	51	19.8	4.37655	2.92788
52	5.91	1.32986	0.89097	52	19.4	4.36306	2.92312
53	5.81	1.32578	0.88952	53	19	4.34968	2.91838
54	5.7	1.32173	0.88808	54	18.7	4.33640	2.91366
55	5.6 x	1.31771	0.88665	55	18.4 x	4.32321	2.90897
56	5.51	1.31373	0.88523	56	18.1	4.31012	2.90429
57	5.41	1.30977	0.88381	57	17.8	4.29713	2.89964
58	5.32	1.30584	0.88240	58	17.5	4.28424	2.89501
59	5.24	1.30193	0.88099	59	17.2	4.27144	2.89040
60	5.15 x	1.29806	0.87959	60	16.9 x	4.25873	2.88580
61	5.07	1.29422	0.87820	61	16.6	4.24611	2.88123
62	4.99	1.29040	0.87681	62	16.4	4.23359	2.87668
63	4.92	1.28661	0.87543	63	16.1	4.22116	2.87215
64	4.85	1.28285	0.87406	64	15.9	4.20881	2.86764
65	4.77 x	1.27911	0.87269	65	15.7 x	4.19656	2.86315
66	4.71	1.27540	0.87133	66	15.4	4.18439	2.85868
67	4.64	1.27172	0.86997	67	15.2	4.17231	2.85423
68	4.57	1.26806	0.86862	68	15	4.16031	2.84980
69	4.51	1.26443	0.86728	69	14.8	4.14840	2.84539
70	4.45 x	1.26083	0.86594	70	14.6 x	4.13658	2.84100
71	4.39	1.25725	0.86460	71	14.4	4.12483	2.83663

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Schneider Super-Angulon - SSA 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	4.33	1.25369	0.86328	72	14.2	4.11317	2.83227
73	4.28	1.25016	0.86196	73	14	4.10159	2.82794
74	4.22	1.24666	0.86064	74	13.8	4.09009	2.82362
75	4.17 x	1.24318	0.85933	75	13.7 x	4.07867	2.81933
76	4.12	1.23972	0.85803	76	13.5	4.06733	2.81505
77	4.07	1.23629	0.85673	77	13.3	4.05607	2.81079
78	4.02	1.23288	0.85544	78	13.2	4.04488	2.80655
79	3.97	1.22949	0.85415	79	13	4.03377	2.80232
80	3.92 x	1.22613	0.85287	80	12.9 x	4.02274	2.79812
81	3.88	1.22279	0.85159	81	12.7	4.01178	2.79393
82	3.83	1.21947	0.85032	82	12.6	4.00090	2.78976
83	3.79	1.21618	0.84905	83	12.4	3.99008	2.78561
84	3.74	1.21290	0.84779	84	12.3	3.97935	2.78148
85	3.7 x	1.20965	0.84654	85	12.2 x	3.96868	2.77736
86	3.66	1.20642	0.84529	86	12	3.95808	2.77326
87	3.62	1.20322	0.84405	87	11.9	3.94756	2.76918
88	3.58	1.20003	0.84281	88	11.8	3.93710	2.76512
89	3.55	1.19686	0.84157	89	11.6	3.92672	2.76107
90	3.51 x	1.19372	0.84035	90	11.5 x	3.91640	2.75704
91	3.47	1.19059	0.83912	91	11.4	3.90615	2.75303
92	3.44	1.18749	0.83790	92	11.3	3.89597	2.74903
93	3.4	1.18441	0.83669	93	11.2	3.88585	2.74505
94	3.37	1.18134	0.83548	94	11.1	3.87580	2.74109
95	3.34 x	1.17830	0.83428	95	10.9 x	3.86582	2.73714
96	3.3	1.17528	0.83308	96	10.8	3.85590	2.73321
97	3.27	1.17227	0.83189	97	10.7	3.84604	2.72930
98	3.24	1.16929	0.83070	98	10.6	3.83625	2.72540
99	3.21	1.16632	0.82952	99	10.5	3.82652	2.72152
100	3.18 x	1.16338	0.82834	100	10.4 x	3.81685	2.71765
101	3.15	1.16045	0.82717	101	10.3	3.80724	2.71380
102	3.12	1.15754	0.82600	102	10.2	3.79770	2.70997
103	3.1	1.15465	0.82483	103	10.2	3.78821	2.70615
104	3.07	1.15177	0.82368	104	10.1	3.77879	2.70235
105	3.04 x	1.14892	0.82252	105	9.98 x	3.76942	2.69856
106	3.01	1.14608	0.82137	106	9.89	3.76012	2.69479
107	2.99	1.14326	0.82023	107	9.8	3.75087	2.69103

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Schneider Super-Angulon - SSA 90

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	2.96	1.14046	0.81909	108	9.72	3.74168	2.68729
109	2.94	1.13768	0.81795	109	9.64	3.73254	2.68357
110	2.91 x	1.13491	0.81682	110	9.56 x	3.72346	2.67986
111	2.89	1.13216	0.81569	111	9.48	3.71444	2.67616
112	2.86	1.12943	0.81457	112	9.4	3.70548	2.67248
113	2.84	1.12671	0.81345	113	9.32	3.69657	2.66882
114	2.82	1.12401	0.81234	114	9.25	3.68771	2.66516
115	2.8 x	1.12133	0.81123	115	9.17 x	3.67891	2.66153
116	2.77	1.11866	0.81013	116	9.1	3.67016	2.65791
117	2.75	1.11601	0.80903	117	9.03	3.66146	2.65430
118	2.73	1.11338	0.80794	118	8.96	3.65282	2.65071
119	2.71	1.11076	0.80684	119	8.89	3.64423	2.64713
120	2.69 x	1.10816	0.80576	120	8.82 x	3.63569	2.64356
121	2.67	1.10557	0.80468	121	8.75	3.62720	2.64001
122	2.65	1.10300	0.80360	122	8.69	3.61877	2.63648
123	2.63	1.10044	0.80252	123	8.62	3.61038	2.63295
124	2.61	1.09790	0.80146	124	8.56	3.60204	2.62945
125	2.59 x	1.09538	0.80039	125	8.5 x	3.59375	2.62595
126	2.57	1.09287	0.79933	126	8.44	3.58552	2.62247
127	2.55	1.09037	0.79827	127	8.37	3.57733	2.61900
128	2.53	1.08789	0.79722	128	8.31	3.56918	2.61555
129	2.52	1.08542	0.79617	129	8.26	3.56109	2.61211
130	2.5 x	1.08297	0.79513	130	8.2 x	3.55304	2.60868
131	2.48	1.08053	0.79409	131	8.14	3.54504	2.60527
132	2.46	1.07811	0.79305	132	8.09	3.53709	2.60187
133	2.45	1.07570	0.79202	133	8.03	3.52918	2.59848
134	2.43	1.07330	0.79099	134	7.98	3.52132	2.59511
135	2.41 x	1.07092	0.78997	135	7.92 x	3.51351	2.59175
136	2.4	1.06855	0.78894	136	7.87	3.50573	2.58840
137	2.38	1.06619	0.78793	137	7.82	3.49801	2.58507
138	2.37	1.06385	0.78692	138	7.77	3.49033	2.58175
139	2.35	1.06152	0.78591	139	7.72	3.48269	2.57844
140	2.34 x	1.05921	0.78490	140	7.67 x	3.47509	2.57514
141	2.32	1.05691	0.78390	141	7.62	3.46754	2.57186
142	2.31	1.05462	0.78290	142	7.57	3.46003	2.56858
143	2.29	1.05234	0.78191	143	7.52	3.45256	2.56533

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Schneider Super-Angulon - SSA 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	2.28	1.05008	0.78092	144	7.47	3.44514	2.56208
145	2.26 x	1.04783	0.77994	145	7.43 x	3.43775	2.55885
146	2.25	1.04559	0.77895	146	7.38	3.43041	2.55562
147	2.24	1.04336	0.77798	147	7.34	3.42311	2.55241
148	2.22	1.04115	0.77700	148	7.29	3.41585	2.54922
149	2.21	1.03895	0.77603	149	7.25	3.40863	2.54603
150	2.2 x	1.03676	0.77506	150	7.2 x	3.40145	2.54286
151	2.18	1.03458	0.77410	151	7.16	3.39431	2.53970
152	2.17	1.03242	0.77314	152	7.12	3.38721	2.53655
153	2.16	1.03027	0.77218	153	7.08	3.38014	2.53341
154	2.14	1.02813	0.77123	154	7.04	3.37312	2.53028
155	2.13 x	1.02600	0.77028	155	7 x	3.36613	2.52717
156	2.12	1.02388	0.76934	156	6.96	3.35919	2.52407
157	2.11	1.02177	0.76839	157	6.92	3.35228	2.52097
158	2.1	1.01968	0.76745	158	6.88	3.34540	2.51789
159	2.08	1.01760	0.76652	159	6.84	3.33857	2.51483
160	2.07 x	1.01552	0.76559	160	6.8 x	3.33177	2.51177
161	2.06	1.01346	0.76466	161	6.76	3.32501	2.50872
162	2.05	1.01141	0.76373	162	6.73	3.31828	2.50569
163	2.04	1.00937	0.76281	163	6.69	3.31159	2.50267
164	2.03	1.00735	0.76189	164	6.65	3.30494	2.49965
165	2.02 x	1.00533	0.76098	165	6.62 x	3.29832	2.49665
166	2.01	1.00332	0.76007	166	6.58	3.29174	2.49366
167	2	1.00133	0.75916	167	6.55	3.28519	2.49068
168	1.98	0.99934	0.75826	168	6.51	3.27867	2.48772
169	1.97	0.99737	0.75735	169	6.48	3.27220	2.48476
170	1.96 x	0.99540	0.75646	170	6.44 x	3.26575	2.48181
171	1.95	0.99345	0.75556	171	6.41	3.25934	2.47888
172	1.94	0.99150	0.75467	172	6.38	3.25296	2.47595
173	1.93	0.98957	0.75378	173	6.34	3.24661	2.47304
174	1.92	0.98764	0.75290	174	6.31	3.24030	2.47013
175	1.91 x	0.98573	0.75201	175	6.28 x	3.23402	2.46724
176	1.9	0.98383	0.75114	176	6.25	3.22778	2.46436
177	1.9	0.98193	0.75026	177	6.22	3.22156	2.46148
178	1.89	0.98005	0.74939	178	6.19	3.21538	2.45862
179	1.88	0.97817	0.74852	179	6.16	3.20923	2.45577

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Schneider Super-Angulon - SSA 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	1.87 x	0.97631	0.74765	180	6.13 x	3.20311	2.45293
181	1.86	0.97445	0.74679	181	6.1	3.19702	2.45010
182	1.85	0.97261	0.74593	182	6.07	3.19096	2.44727
183	1.84	0.97077	0.74507	183	6.04	3.18494	2.44446
184	1.83	0.96894	0.74422	184	6.01	3.17894	2.44166
185	1.82 x	0.96712	0.74337	185	5.98 x	3.17298	2.43887
186	1.81	0.96531	0.74252	186	5.95	3.16704	2.43609
187	1.81	0.96351	0.74167	187	5.93	3.16114	2.43332
188	1.8	0.96172	0.74083	188	5.9	3.15526	2.43055
189	1.79	0.95994	0.73999	189	5.87	3.14942	2.42780
190	1.78 x	0.95817	0.73916	190	5.84 x	3.14360	2.42506
191	1.77	0.95641	0.73832	191	5.82	3.13781	2.42233
192	1.77	0.95465	0.73749	192	5.79	3.13205	2.41960
193	1.76	0.95290	0.73667	193	5.76	3.12632	2.41689
194	1.75	0.95117	0.73584	194	5.74	3.12062	2.41418
195	1.74 x	0.94944	0.73502	195	5.71 x	3.11495	2.41149
196	1.73	0.94772	0.73420	196	5.69	3.10930	2.40880
197	1.73	0.94600	0.73339	197	5.66	3.10368	2.40613
198	1.72	0.94430	0.73258	198	5.64	3.09809	2.40346
199	1.71	0.94260	0.73177	199	5.61	3.09253	2.40080
200	1.7 x	0.94092	0.73096	200	5.59 x	3.08700	2.39816
201	1.7	0.93924	0.73015	201	5.57	3.08149	2.39552
202	1.69	0.93757	0.72935	202	5.54	3.07601	2.39289
203	1.68	0.93590	0.72855	203	5.52	3.07055	2.39027
204	1.67	0.93425	0.72776	204	5.49	3.06512	2.38765
205	1.67 x	0.93260	0.72696	205	5.47 x	3.05972	2.38505
206	1.66	0.93096	0.72617	206	5.45	3.05434	2.38246
207	1.65	0.92933	0.72539	207	5.43	3.04899	2.37987
208	1.65	0.92771	0.72460	208	5.4	3.04367	2.37730
209	1.64	0.92609	0.72382	209	5.38	3.03837	2.37473
210	1.63 x	0.92449	0.72304	210	5.36 x	3.03309	2.37217
211	1.63	0.92289	0.72226	211	5.34	3.02784	2.36962
212	1.62	0.92129	0.72149	212	5.32	3.02262	2.36708
213	1.61	0.91971	0.72071	213	5.29	3.01742	2.36455
214	1.61	0.91813	0.71995	214	5.27	3.01224	2.36202
215	1.6 x	0.91656	0.71918	215	5.25 x	3.00709	2.35951

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Schneider Super-Angulon - SSA 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.59	0.91500	0.71841	216	5.23	3.00197	2.35700
217	1.59	0.91344	0.71765	217	5.21	2.99687	2.35450
218	1.58	0.91190	0.71689	218	5.19	2.99179	2.35201
219	1.58	0.91036	0.71614	219	5.17	2.98673	2.34953
220	1.57 x	0.90882	0.71538	220	5.15 x	2.98170	2.34706
221	1.56	0.90730	0.71463	221	5.13	2.97669	2.34460
222	1.56	0.90578	0.71388	222	5.11	2.97171	2.34214
223	1.55	0.90427	0.71314	223	5.09	2.96675	2.33969
224	1.55	0.90276	0.71239	224	5.07	2.96181	2.33725
225	1.54 x	0.90126	0.71165	225	5.05 x	2.95690	2.33482
226	1.53	0.89977	0.71091	226	5.03	2.95200	2.33240
227	1.53	0.89829	0.71018	227	5.01	2.94713	2.32998
228	1.52	0.89681	0.70944	228	5	2.94229	2.32757
229	1.52	0.89534	0.70871	229	4.98	2.93746	2.32517
230	1.51 x	0.89387	0.70798	230	4.96 x	2.93266	2.32278
231	1.51	0.89242	0.70726	231	4.94	2.92788	2.32040
232	1.5	0.89097	0.70653	232	4.92	2.92312	2.31802
233	1.49	0.88952	0.70581	233	4.9	2.91838	2.31565
234	1.49	0.88808	0.70509	234	4.89	2.91366	2.31329
235	1.48 x	0.88665	0.70437	235	4.87 x	2.90897	2.31094
236	1.48	0.88523	0.70366	236	4.85	2.90429	2.30860
237	1.47	0.88381	0.70295	237	4.83	2.89964	2.30626
238	1.47	0.88240	0.70224	238	4.82	2.89501	2.30393
239	1.46	0.88099	0.70153	239	4.8	2.89040	2.30161
240	1.46 x	0.87959	0.70082	240	4.78 x	2.88580	2.29929
241	1.45	0.87820	0.70012	241	4.77	2.88123	2.29699
242	1.45	0.87681	0.69942	242	4.75	2.87668	2.29469
243	1.44	0.87543	0.69872	243	4.73	2.87215	2.29240
244	1.44	0.87406	0.69803	244	4.72	2.86764	2.29011
245	1.43 x	0.87269	0.69733	245	4.7 x	2.86315	2.28783
246	1.43	0.87133	0.69664	246	4.69	2.85868	2.28556
247	1.42	0.86997	0.69595	247	4.67	2.85423	2.28330
248	1.42	0.86862	0.69526	248	4.65	2.84980	2.28105
249	1.41	0.86728	0.69458	249	4.64	2.84539	2.27880
250	1.41 x	0.86594	0.69390	250	4.62 x	2.84100	2.27656
251	1.4	0.86460	0.69321	251	4.61	2.83663	2.27433

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Schneider Super-Angulon - SSA 90

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	1.4	0.86328	0.69254	252	4.59	2.83227	2.27210
253	1.39	0.86196	0.69186	253	4.58	2.82794	2.26988
254	1.39	0.86064	0.69119	254	4.56	2.82362	2.26767
255	1.39 x	0.85933	0.69051	255	4.55 x	2.81933	2.26547
256	1.38	0.85803	0.68984	256	4.53	2.81505	2.26327
257	1.38	0.85673	0.68918	257	4.52	2.81079	2.26108
258	1.37	0.85544	0.68851	258	4.5	2.80655	2.25889
259	1.37	0.85415	0.68785	259	4.49	2.80232	2.25672
260	1.36 x	0.85287	0.68719	260	4.47 x	2.79812	2.25455
261	1.36	0.85159	0.68653	261	4.46	2.79393	2.25239
262	1.35	0.85032	0.68587	262	4.45	2.78976	2.25023
263	1.35	0.84905	0.68522	263	4.43	2.78561	2.24808
264	1.35	0.84779	0.68456	264	4.42	2.78148	2.24594
265	1.34 x	0.84654	0.68391	265	4.4 x	2.77736	2.24380
266	1.34	0.84529	0.68326	266	4.39	2.77326	2.24167
267	1.33	0.84405	0.68262	267	4.38	2.76918	2.23955
268	1.33	0.84281	0.68197	268	4.36	2.76512	2.23744
269	1.33	0.84157	0.68133	269	4.35	2.76107	2.23533
270	1.32 x	0.84035	0.68069	270	4.34 x	2.75704	2.23323

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Schneider Apo-Digitar - SAD 90

Schneider Standard Copal 0
 Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.55548	0.93698	0	∞	XX	5.10327	3.07409
1	296	XX	1.54918	0.93513	1	973	XX	5.08262	3.06800
2	148	XX	1.54295	0.93328	2	487	XX	5.06216	3.06194
3	98.9	XX	1.53677	0.93144	3	325	XX	5.04189	3.05591
4	74.2	XX	1.53065	0.92961	4	244	XX	5.02181	3.04991
5	59.4	X	1.52458	0.92779	5	195	X	5.00191	3.04394
6	49.6		1.51857	0.92598	6	163		4.98219	3.03800
7	42.5		1.51261	0.92418	7	139		4.96264	3.03209
8	37.2		1.50671	0.92239	8	122		4.94327	3.02621
9	33.1		1.50086	0.92061	9	109		4.92408	3.02036
10	29.8	X	1.49506	0.91883	10	97.8	X	4.90505	3.01454
11	27.1		1.48931	0.91707	11	89		4.88620	3.00875
12	24.9		1.48362	0.91531	12	81.6		4.86751	3.00299
13	23		1.47797	0.91356	13	75.4		4.84898	2.99725
14	21.3		1.47237	0.91182	14	70		4.83061	2.99155
15	19.9	X	1.46682	0.91009	15	65.4	X	4.81241	2.98587
16	18.7		1.46132	0.90837	16	61.3		4.79436	2.98022
17	17.6		1.45587	0.90666	17	57.8		4.77647	2.97460
18	16.6		1.45046	0.90495	18	54.6		4.75873	2.96900
19	15.8		1.44510	0.90326	19	51.7		4.74115	2.96344
20	15	X	1.43979	0.90157	20	49.2	X	4.72371	2.95790
21	14.3		1.43452	0.89989	21	46.9		4.70642	2.95239
22	13.6		1.42929	0.89822	22	44.8		4.68928	2.94690
23	13.1		1.42411	0.89655	23	42.8		4.67228	2.94144
24	12.5		1.41897	0.89490	24	41.1		4.65543	2.93601
25	12	X	1.41388	0.89325	25	39.5	X	4.63871	2.93060
26	11.6		1.40883	0.89161	26	38		4.62214	2.92522
27	11.2		1.40382	0.88998	27	36.6		4.60570	2.91987
28	10.8		1.39885	0.88835	28	35.3		4.58939	2.91454
29	10.4		1.39392	0.88673	29	34.1		4.57323	2.90924
30	10.1	X	1.38903	0.88513	30	33	X	4.55719	2.90396
31	9.74		1.38418	0.88353	31	31.9		4.54128	2.89870
32	9.44		1.37937	0.88193	32	31		4.52550	2.89348
33	9.16		1.37460	0.88035	33	30		4.50985	2.88827
34	8.89		1.36987	0.87877	34	29.2		4.49433	2.88310
35	8.64	X	1.36518	0.87720	35	28.4	X	4.47893	2.87794

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Schneider Apo-Digitar - SAD 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	8.41	1.36052	0.87563	36	27.6	4.46365	2.87281
37	8.19	1.35590	0.87408	37	26.9	4.44850	2.86771
38	7.98	1.35132	0.87253	38	26.2	4.43346	2.86263
39	7.78	1.34677	0.87099	39	25.5	4.41854	2.85757
40	7.59 x	1.34226	0.86945	40	24.9 x	4.40375	2.85253
41	7.41	1.33779	0.86792	41	24.3	4.38906	2.84752
42	7.23	1.33335	0.86640	42	23.7	4.37449	2.84254
43	7.07	1.32894	0.86489	43	23.2	4.36004	2.83757
44	6.91	1.32457	0.86339	44	22.7	4.34569	2.83263
45	6.76 x	1.32023	0.86189	45	22.2 x	4.33146	2.82771
46	6.62	1.31592	0.86039	46	21.7	4.31734	2.82282
47	6.48	1.31165	0.85891	47	21.3	4.30332	2.81794
48	6.35	1.30741	0.85743	48	20.8	4.28941	2.81309
49	6.23	1.30320	0.85596	49	20.4	4.27561	2.80826
50	6.1 x	1.29903	0.85449	50	20 x	4.26191	2.80346
51	5.99	1.29489	0.85303	51	19.6	4.24831	2.79867
52	5.88	1.29077	0.85158	52	19.3	4.23482	2.79391
53	5.77	1.28669	0.85014	53	18.9	4.22143	2.78917
54	5.67	1.28264	0.84870	54	18.6	4.20813	2.78445
55	5.57 x	1.27862	0.84727	55	18.3 x	4.19494	2.77975
56	5.47	1.27463	0.84584	56	17.9	4.18184	2.77507
57	5.38	1.27066	0.84442	57	17.6	4.16884	2.77041
58	5.29	1.26673	0.84301	58	17.3	4.15594	2.76578
59	5.2	1.26283	0.84160	59	17.1	4.14313	2.76116
60	5.12 x	1.25895	0.84020	60	16.8 x	4.13041	2.75657
61	5.04	1.25510	0.83881	61	16.5	4.11779	2.75200
62	4.96	1.25128	0.83742	62	16.3	4.10526	2.74744
63	4.88	1.24749	0.83604	63	16	4.09282	2.74291
64	4.81	1.24373	0.83466	64	15.8	4.08047	2.73840
65	4.74 x	1.23999	0.83329	65	15.5 x	4.06820	2.73391
66	4.67	1.23628	0.83193	66	15.3	4.05603	2.72943
67	4.6	1.23259	0.83057	67	15.1	4.04394	2.72498
68	4.54	1.22893	0.82922	68	14.9	4.03193	2.72055
69	4.47	1.22530	0.82788	69	14.7	4.02001	2.71613
70	4.41 x	1.22169	0.82654	70	14.5 x	4.00818	2.71174
71	4.35	1.21811	0.82520	71	14.3	3.99643	2.70736

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Schneider Apo-Digitar - SAD 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	4.29	1.21455	0.82388	72	14.1	3.98476	2.70301
73	4.24	1.21102	0.82255	73	13.9	3.97317	2.69867
74	4.18	1.20752	0.82124	74	13.7	3.96166	2.69435
75	4.13 x	1.20403	0.81993	75	13.6 x	3.95024	2.69005
76	4.08	1.20057	0.81862	76	13.4	3.93889	2.68577
77	4.03	1.19714	0.81732	77	13.2	3.92762	2.68150
78	3.98	1.19373	0.81603	78	13.1	3.91642	2.67726
79	3.93	1.19034	0.81474	79	12.9	3.90531	2.67303
80	3.88 x	1.18697	0.81346	80	12.7 x	3.89427	2.66883
81	3.84	1.18363	0.81218	81	12.6	3.88330	2.66464
82	3.79	1.18031	0.81091	82	12.4	3.87241	2.66046
83	3.75	1.17701	0.80964	83	12.3	3.86159	2.65631
84	3.71	1.17374	0.80838	84	12.2	3.85084	2.65217
85	3.67 x	1.17048	0.80713	85	12 x	3.84017	2.64805
86	3.63	1.16725	0.80588	86	11.9	3.82957	2.64395
87	3.59	1.16404	0.80463	87	11.8	3.81904	2.63987
88	3.55	1.16085	0.80339	88	11.6	3.80858	2.63580
89	3.51	1.15769	0.80216	89	11.5	3.79818	2.63175
90	3.47 x	1.15454	0.80093	90	11.4 x	3.78786	2.62772
91	3.44	1.15141	0.79970	91	11.3	3.77760	2.62370
92	3.4	1.14831	0.79849	92	11.2	3.76741	2.61970
93	3.37	1.14522	0.79727	93	11	3.75729	2.61572
94	3.33	1.14216	0.79606	94	10.9	3.74723	2.61175
95	3.3 x	1.13911	0.79486	95	10.8 x	3.73724	2.60781
96	3.27	1.13609	0.79366	96	10.7	3.72732	2.60387
97	3.23	1.13308	0.79247	97	10.6	3.71745	2.59996
98	3.2	1.13009	0.79128	98	10.5	3.70765	2.59606
99	3.17	1.12712	0.79009	99	10.4	3.69792	2.59217
100	3.14 x	1.12418	0.78892	100	10.3 x	3.68824	2.58830
101	3.11	1.12125	0.78774	101	10.2	3.67863	2.58445
102	3.09	1.11833	0.78657	102	10.1	3.66908	2.58062
103	3.06	1.11544	0.78541	103	10	3.65959	2.57680
104	3.03	1.11257	0.78425	104	9.94	3.65015	2.57299
105	3 x	1.10971	0.78309	105	9.85 x	3.64078	2.56920
106	2.98	1.10687	0.78194	106	9.76	3.63147	2.56543
107	2.95	1.10405	0.78080	107	9.68	3.62221	2.56167

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Schneider Apo-Digitar - SAD 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	2.92	1.10125	0.77966	108	9.59	3.61302	2.55793
109	2.9	1.09846	0.77852	109	9.51	3.60388	2.55420
110	2.87 x	1.09569	0.77739	110	9.43 x	3.59479	2.55048
111	2.85	1.09294	0.77626	111	9.35	3.58577	2.54679
112	2.83	1.09021	0.77514	112	9.27	3.57679	2.54310
113	2.8	1.08749	0.77402	113	9.2	3.56788	2.53943
114	2.78	1.08479	0.77291	114	9.12	3.55901	2.53578
115	2.76 x	1.08210	0.77180	115	9.05 x	3.55021	2.53214
116	2.74	1.07943	0.77069	116	8.97	3.54145	2.52852
117	2.71	1.07678	0.76959	117	8.9	3.53275	2.52491
118	2.69	1.07415	0.76850	118	8.83	3.52410	2.52131
119	2.67	1.07153	0.76740	119	8.76	3.51551	2.51773
120	2.65 x	1.06892	0.76632	120	8.69 x	3.50696	2.51417
121	2.63	1.06633	0.76523	121	8.63	3.49847	2.51061
122	2.61	1.06376	0.76416	122	8.56	3.49002	2.50707
123	2.59	1.06120	0.76308	123	8.5	3.48163	2.50355
124	2.57	1.05866	0.76201	124	8.43	3.47329	2.50004
125	2.55 x	1.05613	0.76095	125	8.37 x	3.46500	2.49654
126	2.53	1.05362	0.75988	126	8.31	3.45675	2.49306
127	2.51	1.05112	0.75883	127	8.25	3.44856	2.48959
128	2.5	1.04864	0.75777	128	8.19	3.44041	2.48613
129	2.48	1.04617	0.75672	129	8.13	3.43231	2.48269
130	2.46 x	1.04371	0.75568	130	8.07 x	3.42426	2.47926
131	2.44	1.04127	0.75464	131	8.02	3.41625	2.47585
132	2.43	1.03885	0.75360	132	7.96	3.40829	2.47244
133	2.41	1.03644	0.75257	133	7.9	3.40038	2.46906
134	2.39	1.03404	0.75154	134	7.85	3.39252	2.46568
135	2.38 x	1.03165	0.75051	135	7.8 x	3.38469	2.46232
136	2.36	1.02928	0.74949	136	7.74	3.37692	2.45897
137	2.34	1.02693	0.74848	137	7.69	3.36919	2.45563
138	2.33	1.02458	0.74746	138	7.64	3.36150	2.45231
139	2.31	1.02225	0.74645	139	7.59	3.35385	2.44899
140	2.3 x	1.01994	0.74545	140	7.54 x	3.34625	2.44570
141	2.28	1.01763	0.74445	141	7.49	3.33870	2.44241
142	2.27	1.01534	0.74345	142	7.44	3.33118	2.43914
143	2.25	1.01307	0.74245	143	7.39	3.32371	2.43588

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Schneider Apo-Digitar - SAD 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	2.24	1.01080	0.74146	144	7.35	3.31628	2.43263
145	2.23 x	1.00855	0.74048	145	7.3 x	3.30889	2.42939
146	2.21	1.00631	0.73950	146	7.25	3.30154	2.42617
147	2.2	1.00408	0.73852	147	7.21	3.29424	2.42295
148	2.18	1.00187	0.73754	148	7.16	3.28697	2.41975
149	2.17	0.99967	0.73657	149	7.12	3.27975	2.41657
150	2.16 x	0.99748	0.73560	150	7.08 x	3.27256	2.41339
151	2.14	0.99530	0.73464	151	7.03	3.26542	2.41023
152	2.13	0.99313	0.73368	152	6.99	3.25831	2.40708
153	2.12	0.99098	0.73272	153	6.95	3.25124	2.40394
154	2.11	0.98884	0.73177	154	6.91	3.24421	2.40081
155	2.09 x	0.98671	0.73082	155	6.87 x	3.23722	2.39769
156	2.08	0.98459	0.72987	156	6.83	3.23027	2.39459
157	2.07	0.98248	0.72893	157	6.79	3.22336	2.39149
158	2.06	0.98038	0.72799	158	6.75	3.21648	2.38841
159	2.05	0.97830	0.72705	159	6.71	3.20964	2.38534
160	2.03 x	0.97622	0.72612	160	6.67 x	3.20284	2.38228
161	2.02	0.97416	0.72519	161	6.64	3.19607	2.37924
162	2.01	0.97211	0.72427	162	6.6	3.18934	2.37620
163	2	0.97007	0.72334	163	6.56	3.18265	2.37317
164	1.99	0.96804	0.72242	164	6.53	3.17599	2.37016
165	1.98 x	0.96602	0.72151	165	6.49 x	3.16936	2.36716
166	1.97	0.96401	0.72060	166	6.45	3.16278	2.36416
167	1.96	0.96202	0.71969	167	6.42	3.15622	2.36118
168	1.95	0.96003	0.71878	168	6.38	3.14971	2.35821
169	1.94	0.95805	0.71788	169	6.35	3.14322	2.35525
170	1.93 x	0.95609	0.71698	170	6.32 x	3.13677	2.35231
171	1.92	0.95413	0.71609	171	6.28	3.13036	2.34937
172	1.91	0.95219	0.71520	172	6.25	3.12397	2.34644
173	1.9	0.95025	0.71431	173	6.22	3.11762	2.34352
174	1.89	0.94833	0.71342	174	6.19	3.11131	2.34062
175	1.88 x	0.94641	0.71254	175	6.15 x	3.10502	2.33772
176	1.87	0.94451	0.71166	176	6.12	3.09877	2.33484
177	1.86	0.94261	0.71078	177	6.09	3.09255	2.33196
178	1.85	0.94072	0.70991	178	6.06	3.08637	2.32910
179	1.84	0.93885	0.70904	179	6.03	3.08021	2.32624

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Schneider Apo-Digitar - SAD 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	1.83 x	0.93698	0.70817	180	6 x	3.07409	2.32340
181	1.82	0.93513	0.70731	181	5.97	3.06800	2.32057
182	1.81	0.93328	0.70645	182	5.94	3.06194	2.31774
183	1.8	0.93144	0.70559	183	5.91	3.05591	2.31493
184	1.79	0.92961	0.70474	184	5.88	3.04991	2.31213
185	1.78 x	0.92779	0.70388	185	5.85 x	3.04394	2.30933
186	1.78	0.92598	0.70304	186	5.83	3.03800	2.30655
187	1.77	0.92418	0.70219	187	5.8	3.03209	2.30378
188	1.76	0.92239	0.70135	188	5.77	3.02621	2.30101
189	1.75	0.92061	0.70051	189	5.74	3.02036	2.29826
190	1.74 x	0.91883	0.69967	190	5.72 x	3.01454	2.29551
191	1.73	0.91707	0.69884	191	5.69	3.00875	2.29278
192	1.73	0.91531	0.69801	192	5.66	3.00299	2.29005
193	1.72	0.91356	0.69718	193	5.64	2.99725	2.28734
194	1.71	0.91182	0.69636	194	5.61	2.99155	2.28463
195	1.7 x	0.91009	0.69553	195	5.59 x	2.98587	2.28193
196	1.69	0.90837	0.69471	196	5.56	2.98022	2.27925
197	1.69	0.90666	0.69390	197	5.54	2.97460	2.27657
198	1.68	0.90495	0.69309	198	5.51	2.96900	2.27390
199	1.67	0.90326	0.69227	199	5.49	2.96344	2.27124
200	1.66 x	0.90157	0.69147	200	5.46 x	2.95790	2.26859
201	1.66	0.89989	0.69066	201	5.44	2.95239	2.26595
202	1.65	0.89822	0.68986	202	5.41	2.94690	2.26332
203	1.64	0.89655	0.68906	203	5.39	2.94144	2.26070
204	1.64	0.89490	0.68826	204	5.37	2.93601	2.25808
205	1.63 x	0.89325	0.68747	205	5.34 x	2.93060	2.25548
206	1.62	0.89161	0.68668	206	5.32	2.92522	2.25288
207	1.61	0.88998	0.68589	207	5.3	2.91987	2.25030
208	1.61	0.88835	0.68510	208	5.28	2.91454	2.24772
209	1.6	0.88673	0.68432	209	5.25	2.90924	2.24515
210	1.59 x	0.88513	0.68354	210	5.23 x	2.90396	2.24259
211	1.59	0.88353	0.68276	211	5.21	2.89870	2.24004
212	1.58	0.88193	0.68199	212	5.19	2.89348	2.23750
213	1.57	0.88035	0.68122	213	5.17	2.88827	2.23496
214	1.57	0.87877	0.68045	214	5.15	2.88310	2.23244
215	1.56 x	0.87720	0.67968	215	5.12 x	2.87794	2.22992

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Schneider Apo-Digitar - SAD 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.56	0.87563	0.67891	216	5.1	2.87281	2.22741
217	1.55	0.87408	0.67815	217	5.08	2.86771	2.22491
218	1.54	0.87253	0.67739	218	5.06	2.86263	2.22242
219	1.54	0.87099	0.67664	219	5.04	2.85757	2.21994
220	1.53 x	0.86945	0.67588	220	5.02 x	2.85253	2.21746
221	1.52	0.86792	0.67513	221	5	2.84752	2.21499
222	1.52	0.86640	0.67438	222	4.98	2.84254	2.21254
223	1.51	0.86489	0.67363	223	4.96	2.83757	2.21009
224	1.51	0.86339	0.67289	224	4.94	2.83263	2.20764
225	1.5 x	0.86189	0.67215	225	4.92 x	2.82771	2.20521
226	1.5	0.86039	0.67141	226	4.91	2.82282	2.20279
227	1.49	0.85891	0.67067	227	4.89	2.81794	2.20037
228	1.48	0.85743	0.66994	228	4.87	2.81309	2.19796
229	1.48	0.85596	0.66921	229	4.85	2.80826	2.19556
230	1.47 x	0.85449	0.66848	230	4.83 x	2.80346	2.19316
231	1.47	0.85303	0.66775	231	4.81	2.79867	2.19078
232	1.46	0.85158	0.66702	232	4.79	2.79391	2.18840
233	1.46	0.85014	0.66630	233	4.78	2.78917	2.18603
234	1.45	0.84870	0.66558	234	4.76	2.78445	2.18367
235	1.45 x	0.84727	0.66486	235	4.74 x	2.77975	2.18132
236	1.44	0.84584	0.66415	236	4.72	2.77507	2.17897
237	1.43	0.84442	0.66344	237	4.71	2.77041	2.17663
238	1.43	0.84301	0.66273	238	4.69	2.76578	2.17430
239	1.42	0.84160	0.66202	239	4.67	2.76116	2.17198
240	1.42 x	0.84020	0.66131	240	4.66 x	2.75657	2.16966
241	1.41	0.83881	0.66061	241	4.64	2.75200	2.16735
242	1.41	0.83742	0.65991	242	4.62	2.74744	2.16505
243	1.4	0.83604	0.65921	243	4.61	2.74291	2.16276
244	1.4	0.83466	0.65851	244	4.59	2.73840	2.16047
245	1.39 x	0.83329	0.65782	245	4.57 x	2.73391	2.15819
246	1.39	0.83193	0.65713	246	4.56	2.72943	2.15592
247	1.38	0.83057	0.65644	247	4.54	2.72498	2.15366
248	1.38	0.82922	0.65575	248	4.53	2.72055	2.15140
249	1.37	0.82788	0.65506	249	4.51	2.71613	2.14915
250	1.37 x	0.82654	0.65438	250	4.49 x	2.71174	2.14691
251	1.37	0.82520	0.65370	251	4.48	2.70736	2.14468

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** H +6/17 = theoretical distance using the respective hub of the helical plus macro tube of the corresponding dimension (in mm) at a given degree setting - Please check if distance is achievable in reality as the cc might be within the optical system!

Schneider Apo-Digitar - SAD 90

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	1.36	0.82388	0.65302	252	4.46	2.70301	2.14245
253	1.36	0.82255	0.65234	253	4.45	2.69867	2.14023
254	1.35	0.82124	0.65167	254	4.43	2.69435	2.13802
255	1.35 x	0.81993	0.65100	255	4.42 x	2.69005	2.13581
256	1.34	0.81862	0.65032	256	4.4	2.68577	2.13361
257	1.34	0.81732	0.64966	257	4.39	2.68150	2.13142
258	1.33	0.81603	0.64899	258	4.37	2.67726	2.12923
259	1.33	0.81474	0.64833	259	4.36	2.67303	2.12706
260	1.32 x	0.81346	0.64767	260	4.35 x	2.66883	2.12489
261	1.32	0.81218	0.64701	261	4.33	2.66464	2.12272
262	1.32	0.81091	0.64635	262	4.32	2.66046	2.12056
263	1.31	0.80964	0.64569	263	4.3	2.65631	2.11841
264	1.31	0.80838	0.64504	264	4.29	2.65217	2.11627
265	1.3 x	0.80713	0.64439	265	4.28 x	2.64805	2.11413
266	1.3	0.80588	0.64374	266	4.26	2.64395	2.11200
267	1.29	0.80463	0.64309	267	4.25	2.63987	2.10988
268	1.29	0.80339	0.64245	268	4.23	2.63580	2.10776
269	1.29	0.80216	0.64180	269	4.22	2.63175	2.10565
270	1.28 x	0.80093	0.64116	270	4.21 x	2.62772	2.10355

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Schneider ALPA Apo Switar - AAS 90

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.55548	0.93698	0	∞	XX	5.10327	3.07409
1	98.9	XX	1.53677	0.93144	1	325	XX	5.04189	3.05591
2	49.6	XX	1.51857	0.92598	2	163	XX	4.98219	3.03800
3	33.1	XX	1.50086	0.92061	3	109	XX	4.92408	3.02036
4	24.9	XX	1.48362	0.91531	4	81.6	XX	4.86751	3.00299
5	19.9	X	1.46682	0.91009	5	65.4	X	4.81241	2.98587
6	16.6		1.45046	0.90495	6	54.6		4.75873	2.96900
7	14.3		1.43452	0.89989	7	46.9		4.70642	2.95239
8	12.5		1.41897	0.89490	8	41.1		4.65543	2.93601
9	11.2		1.40382	0.88998	9	36.6		4.60570	2.91987
10	10.1	X	1.38903	0.88513	10	33	X	4.55719	2.90396
11	9.16		1.37460	0.88035	11	30		4.50985	2.88827
12	8.41		1.36052	0.87563	12	27.6		4.46365	2.87281
13	7.78		1.34677	0.87099	13	25.5		4.41854	2.85757
14	7.23		1.33335	0.86640	14	23.7		4.37449	2.84254
15	6.76	X	1.32023	0.86189	15	22.2	X	4.33146	2.82771
16	6.35		1.30741	0.85743	16	20.8		4.28941	2.81309
17	5.99		1.29489	0.85303	17	19.6		4.24831	2.79867
18	5.67		1.28264	0.84870	18	18.6		4.20813	2.78445
19	5.38		1.27066	0.84442	19	17.6		4.16884	2.77041
20	5.12	X	1.25895	0.84020	20	16.8	X	4.13041	2.75657
21	4.88		1.24749	0.83604	21	16		4.09282	2.74291
22	4.67		1.23628	0.83193	22	15.3		4.05603	2.72943
23	4.47		1.22530	0.82788	23	14.7		4.02001	2.71613
24	4.29		1.21455	0.82388	24	14.1		3.98476	2.70301
25	4.13	X	1.20403	0.81993	25	13.6	X	3.95024	2.69005
26	3.98		1.19373	0.81603	26	13.1		3.91642	2.67726
27	3.84		1.18363	0.81218	27	12.6		3.88330	2.66464
28	3.71		1.17374	0.80838	28	12.2		3.85084	2.65217
29	3.59		1.16404	0.80463	29	11.8		3.81904	2.63987
30	3.47	X	1.15454	0.80093	30	11.4	X	3.78786	2.62772
31	3.37		1.14522	0.79727	31	11		3.75729	2.61572
32	3.27		1.13609	0.79366	32	10.7		3.72732	2.60387
33	3.17		1.12712	0.79009	33	10.4		3.69792	2.59217
34	3.09		1.11833	0.78657	34	10.1		3.66908	2.58062
35	3	X	1.10971	0.78309	35	9.85	X	3.64078	2.56920

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Schneider ALPA Apo Switar - AAS 90

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	2.92	1.10125	0.77966	36	9.59	3.61302	2.55793
37	2.85	1.09294	0.77626	37	9.35	3.58577	2.54679
38	2.78	1.08479	0.77291	38	9.12	3.55901	2.53578
39	2.71	1.07678	0.76959	39	8.9	3.53275	2.52491
40	2.65 x	1.06892	0.76632	40	8.69 x	3.50696	2.51417
41	2.59	1.06120	0.76308	41	8.5	3.48163	2.50355
42	2.53	1.05362	0.75988	42	8.31	3.45675	2.49306
43	2.48	1.04617	0.75672	43	8.13	3.43231	2.48269
44	2.43	1.03885	0.75360	44	7.96	3.40829	2.47244
45	2.38 x	1.03165	0.75051	45	7.8 x	3.38469	2.46232
46	2.33	1.02458	0.74746	46	7.64	3.36150	2.45231
47	2.28	1.01763	0.74445	47	7.49	3.33870	2.44241
48	2.24	1.01080	0.74146	48	7.35	3.31628	2.43263
49	2.2	1.00408	0.73852	49	7.21	3.29424	2.42295
50	2.16 x	0.99748	0.73560	50	7.08 x	3.27256	2.41339
51	2.12	0.99098	0.73272	51	6.95	3.25124	2.40394
52	2.08	0.98459	0.72987	52	6.83	3.23027	2.39459
53	2.05	0.97830	0.72705	53	6.71	3.20964	2.38534
54	2.01	0.97211	0.72427	54	6.6	3.18934	2.37620
55	1.98 x	0.96602	0.72151	55	6.49 x	3.16936	2.36716
56	1.95	0.96003	0.71878	56	6.38	3.14971	2.35821
57	1.92	0.95413	0.71609	57	6.28	3.13036	2.34937
58	1.89	0.94833	0.71342	58	6.19	3.11131	2.34062
59	1.86	0.94261	0.71078	59	6.09	3.09255	2.33196
60	1.83 x	0.93698	0.70817	60	6 x	3.07409	2.32340
61	1.8	0.93144	0.70559	61	5.91	3.05591	2.31493
62	1.78	0.92598	0.70304	62	5.83	3.03800	2.30655
63	1.75	0.92061	0.70051	63	5.74	3.02036	2.29826
64	1.73	0.91531	0.69801	64	5.66	3.00299	2.29005
65	1.7 x	0.91009	0.69553	65	5.59 x	2.98587	2.28193
66	1.68	0.90495	0.69309	66	5.51	2.96900	2.27390
67	1.66	0.89989	0.69066	67	5.44	2.95239	2.26595
68	1.64	0.89490	0.68826	68	5.37	2.93601	2.25808
69	1.61	0.88998	0.68589	69	5.3	2.91987	2.25030
70	1.59 x	0.88513	0.68354	70	5.23 x	2.90396	2.24259
71	1.57	0.88035	0.68122	71	5.17	2.88827	2.23496

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Schneider ALPA Apo Switar - AAS 90

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	1.56	0.87563	0.67891	72	5.1	2.87281	2.22741
73	1.54	0.87099	0.67664	73	5.04	2.85757	2.21994
74	1.52	0.86640	0.67438	74	4.98	2.84254	2.21254
75	1.5 x	0.86189	0.67215	75	4.92 x	2.82771	2.20521
76	1.48	0.85743	0.66994	76	4.87	2.81309	2.19796
77	1.47	0.85303	0.66775	77	4.81	2.79867	2.19078
78	1.45	0.84870	0.66558	78	4.76	2.78445	2.18367
79	1.43	0.84442	0.66344	79	4.71	2.77041	2.17663
80	1.42 x	0.84020	0.66131	80	4.66 x	2.75657	2.16966
81	1.4	0.83604	0.65921	81	4.61	2.74291	2.16276
82	1.39	0.83193	0.65713	82	4.56	2.72943	2.15592
83	1.37	0.82788	0.65506	83	4.51	2.71613	2.14915
84	1.36	0.82388	0.65302	84	4.46	2.70301	2.14245
85	1.35 x	0.81993	0.65100	85	4.42 x	2.69005	2.13581
86	1.33	0.81603	0.64899	86	4.37	2.67726	2.12923
87	1.32	0.81218	0.64701	87	4.33	2.66464	2.12272
88	1.31	0.80838	0.64504	88	4.29	2.65217	2.11627
89	1.29	0.80463	0.64309	89	4.25	2.63987	2.10988
90	1.28 x	0.80093	0.64116	90	4.21 x	2.62772	2.10355
91	1.27	0.79727	0.63925	91	4.17	2.61572	2.09728
92	1.26	0.79366	0.63736	92	4.13	2.60387	2.09106
93	1.25	0.79009	0.63548	93	4.09	2.59217	2.08491
94	1.24	0.78657	0.63362	94	4.06	2.58062	2.07881
95	1.23 x	0.78309	0.63178	95	4.02 x	2.56920	2.07277
96	1.21	0.77966	0.62995	96	3.98	2.55793	2.06678
97	1.2	0.77626	0.62815	97	3.95	2.54679	2.06085
98	1.19	0.77291	0.62635	98	3.92	2.53578	2.05497
99	1.18	0.76959	0.62458	99	3.88	2.52491	2.04914
100	1.17 x	0.76632	0.62282	100	3.85 x	2.51417	2.04337
101	1.16	0.76308	0.62108	101	3.82	2.50355	2.03765
102	1.15	0.75988	0.61935	102	3.79	2.49306	2.03198
103	1.15	0.75672	0.61763	103	3.76	2.48269	2.02636
104	1.14	0.75360	0.61594	104	3.73	2.47244	2.02079
105	1.13 x	0.75051	0.61425	105	3.7 x	2.46232	2.01527
106	1.12	0.74746	0.61259	106	3.67	2.45231	2.00980
107	1.11	0.74445	0.61093	107	3.64	2.44241	2.00438

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Schneider ALPA Apo Switar - AAS 90

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	1.1	0.74146	0.60930	108	3.61	2.43263	1.99900
109	1.09	0.73852	0.60767	109	3.59	2.42295	1.99367
110	1.08 x	0.73560	0.60606	110	3.56 x	2.41339	1.98839
111	1.08	0.73272	0.60447	111	3.53	2.40394	1.98315
112	1.07	0.72987	0.60288	112	3.51	2.39459	1.97796
113	1.06	0.72705	0.60131	113	3.48	2.38534	1.97282
114	1.05	0.72427	0.59976	114	3.46	2.37620	1.96771
115	1.05 x	0.72151	0.59822	115	3.43 x	2.36716	1.96265
116	1.04	0.71878	0.59669	116	3.41	2.35821	1.95764
117	1.03	0.71609	0.59517	117	3.38	2.34937	1.95266
118	1.02	0.71342	0.59367	118	3.36	2.34062	1.94773
119	1.02	0.71078	0.59218	119	3.34	2.33196	1.94284
120	1.01 x	0.70817	0.59070	120	3.32 x	2.32340	1.93799
121	1	0.70559	0.58923	121	3.29	2.31493	1.93318
122	.997	0.70304	0.58778	122	3.27	2.30655	1.92842
123	.991	0.70051	0.58634	123	3.25	2.29826	1.92369
124	.985	0.69801	0.58491	124	3.23	2.29005	1.91900
125	.978 x	0.69553	0.58349	125	3.21 x	2.28193	1.91434
126	.972	0.69309	0.58209	126	3.19	2.27390	1.90973
127	.966	0.69066	0.58069	127	3.17	2.26595	1.90516
128	.96	0.68826	0.57931	128	3.15	2.25808	1.90062
129	.954	0.68589	0.57794	129	3.13	2.25030	1.89612
130	.948 x	0.68354	0.57658	130	3.11 x	2.24259	1.89165
131	.943	0.68122	0.57523	131	3.09	2.23496	1.88722
132	.937	0.67891	0.57389	132	3.07	2.22741	1.88283
133	.931	0.67664	0.57256	133	3.06	2.21994	1.87847
134	.926	0.67438	0.57124	134	3.04	2.21254	1.87415
135	.921 x	0.67215	0.56993	135	3.02 x	2.20521	1.86986
136	.915	0.66994	0.56864	136	3	2.19796	1.86560
137	.91	0.66775	0.56735	137	2.99	2.19078	1.86138
138	.905	0.66558	0.56607	138	2.97	2.18367	1.85720
139	.9	0.66344	0.56481	139	2.95	2.17663	1.85304
140	.895 x	0.66131	0.56355	140	2.94 x	2.16966	1.84892
141	.89	0.65921	0.56230	141	2.92	2.16276	1.84483
142	.885	0.65713	0.56107	142	2.9	2.15592	1.84077
143	.88	0.65506	0.55984	143	2.89	2.14915	1.83674

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Schneider ALPA Apo Switar - AAS 90

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	.876	0.65302	0.55862	144	2.87	2.14245	1.83275
145	.871 x	0.65100	0.55741	145	2.86 x	2.13581	1.82878
146	.866	0.64899	0.55621	146	2.84	2.12923	1.82485
147	.862	0.64701	0.55502	147	2.83	2.12272	1.82094
148	.857	0.64504	0.55384	148	2.81	2.11627	1.81707
149	.853	0.64309	0.55267	149	2.8	2.10988	1.81322
150	.849 x	0.64116	0.55151	150	2.78 x	2.10355	1.80941
151	.844	0.63925	0.55035	151	2.77	2.09728	1.80562
152	.84	0.63736	0.54921	152	2.76	2.09106	1.80186
153	.836	0.63548	0.54807	153	2.74	2.08491	1.79813
154	.832	0.63362	0.54694	154	2.73	2.07881	1.79443
155	.828 x	0.63178	0.54582	155	2.72 x	2.07277	1.79076
156	.824	0.62995	0.54471	156	2.7	2.06678	1.78711
157	.82	0.62815	0.54361	157	2.69	2.06085	1.78349
158	.816	0.62635	0.54251	158	2.68	2.05497	1.77990
159	.812	0.62458	0.54143	159	2.66	2.04914	1.77633
160	.808 x	0.62282	0.54035	160	2.65 x	2.04337	1.77279
161	.805	0.62108	0.53928	161	2.64	2.03765	1.76928
162	.801	0.61935	0.53821	162	2.63	2.03198	1.76579
163	.797	0.61763	0.53716	163	2.62	2.02636	1.76233
164	.794	0.61594	0.53611	164	2.6	2.02079	1.75889
165	.79 x	0.61425	0.53507	165	2.59 x	2.01527	1.75548
166	.787	0.61259	0.53404	166	2.58	2.00980	1.75209
167	.783	0.61093	0.53301	167	2.57	2.00438	1.74873
168	.78	0.60930	0.53199	168	2.56	1.99900	1.74539
169	.776	0.60767	0.53098	169	2.55	1.99367	1.74207
170	.773 x	0.60606	0.52998	170	2.54 x	1.98839	1.73878
171	.77	0.60447	0.52899	171	2.52	1.98315	1.73552
172	.766	0.60288	0.52800	172	2.51	1.97796	1.73227
173	.763	0.60131	0.52701	173	2.5	1.97282	1.72905
174	.76	0.59976	0.52604	174	2.49	1.96771	1.72585
175	.757 x	0.59822	0.52507	175	2.48 x	1.96265	1.72268
176	.754	0.59669	0.52411	176	2.47	1.95764	1.71952
177	.751	0.59517	0.52316	177	2.46	1.95266	1.71639
178	.747	0.59367	0.52221	178	2.45	1.94773	1.71328
179	.744	0.59218	0.52127	179	2.44	1.94284	1.71020

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Schneider ALPA Apo Switar - AAS 90

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	.741 x	0.59070	0.52033	180	2.43 x	1.93799	1.70713
181	.739	0.58923	0.51941	181	2.42	1.93318	1.70408
182	.736	0.58778	0.51848	182	2.41	1.92842	1.70106
183	.733	0.58634	0.51757	183	2.4	1.92369	1.69806
184	.73	0.58491	0.51666	184	2.39	1.91900	1.69508
185	.727 x	0.58349	0.51576	185	2.39 x	1.91434	1.69212
186	.724	0.58209	0.51486	186	2.38	1.90973	1.68917
187	.722	0.58069	0.51397	187	2.37	1.90516	1.68625
188	.719	0.57931	0.51309	188	2.36	1.90062	1.68335
189	.716	0.57794	0.51221	189	2.35	1.89612	1.68047
190	.713 x	0.57658	0.51134	190	2.34 x	1.89165	1.67761
191	.711	0.57523	0.51047	191	2.33	1.88722	1.67477
192	.708	0.57389	0.50961	192	2.32	1.88283	1.67195
193	.706	0.57256	0.50875	193	2.31	1.87847	1.66914
194	.703	0.57124	0.50791	194	2.31	1.87415	1.66636
195	.701 x	0.56993	0.50706	195	2.3 x	1.86986	1.66359
196	.698	0.56864	0.50623	196	2.29	1.86560	1.66084
197	.696	0.56735	0.50539	197	2.28	1.86138	1.65811
198	.693	0.56607	0.50457	198	2.27	1.85720	1.65540
199	.691	0.56481	0.50375	199	2.27	1.85304	1.65271
200	.688 x	0.56355	0.50293	200	2.26 x	1.84892	1.65004
201	.686	0.56230	0.50212	201	2.25	1.84483	1.64738
202	.684	0.56107	0.50132	202	2.24	1.84077	1.64474
203	.681	0.55984	0.50052	203	2.23	1.83674	1.64212
204	.679	0.55862	0.49972	204	2.23	1.83275	1.63951
205	.677 x	0.55741	0.49893	205	2.22 x	1.82878	1.63692
206	.674	0.55621	0.49815	206	2.21	1.82485	1.63435
207	.672	0.55502	0.49737	207	2.21	1.82094	1.63180
208	.67	0.55384	0.49660	208	2.2	1.81707	1.62926
209	.668	0.55267	0.49583	209	2.19	1.81322	1.62674
210	.666 x	0.55151	0.49507	210	2.18 x	1.80941	1.62423
211	.663	0.55035	0.49431	211	2.18	1.80562	1.62174
212	.661	0.54921	0.49355	212	2.17	1.80186	1.61927
213	.659	0.54807	0.49280	213	2.16	1.79813	1.61681
214	.657	0.54694	0.49206	214	2.16	1.79443	1.61437
215	.655 x	0.54582	0.49132	215	2.15 x	1.79076	1.61195

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Schneider ALPA Apo Switar - AAS 90

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	.653	0.54471	0.49059	216	2.14	1.78711	1.60954
217	.651	0.54361	0.48986	217	2.14	1.78349	1.60714
218	.649	0.54251	0.48913	218	2.13	1.77990	1.60476
219	.647	0.54143	0.48841	219	2.12	1.77633	1.60240
220	.645 x	0.54035	0.48770	220	2.12 x	1.77279	1.60005
221	.643	0.53928	0.48698	221	2.11	1.76928	1.59772
222	.641	0.53821	0.48628	222	2.1	1.76579	1.59540
223	.639	0.53716	0.48557	223	2.1	1.76233	1.59309
224	.637	0.53611	0.48488	224	2.09	1.75889	1.59080
225	.635 x	0.53507	0.48418	225	2.08 x	1.75548	1.58853
226	.634	0.53404	0.48349	226	2.08	1.75209	1.58626
227	.632	0.53301	0.48281	227	2.07	1.74873	1.58402
228	.63	0.53199	0.48213	228	2.07	1.74539	1.58178
229	.628	0.53098	0.48145	229	2.06	1.74207	1.57956
230	.626 x	0.52998	0.48078	230	2.05 x	1.73878	1.57736
231	.625	0.52899	0.48011	231	2.05	1.73552	1.57516
232	.623	0.52800	0.47945	232	2.04	1.73227	1.57299
233	.621	0.52701	0.47879	233	2.04	1.72905	1.57082
234	.619	0.52604	0.47813	234	2.03	1.72585	1.56867
235	.618 x	0.52507	0.47748	235	2.03 x	1.72268	1.56653
236	.616	0.52411	0.47683	236	2.02	1.71952	1.56440
237	.614	0.52316	0.47619	237	2.02	1.71639	1.56229
238	.613	0.52221	0.47555	238	2.01	1.71328	1.56019
239	.611	0.52127	0.47491	239	2	1.71020	1.55810
240	.609 x	0.52033	0.47428	240	2 x	1.70713	1.55603
241	.608	0.51941	0.47365	241	1.99	1.70408	1.55397
242	.606	0.51848	0.47302	242	1.99	1.70106	1.55192
243	.604	0.51757	0.47240	243	1.98	1.69806	1.54988
244	.603	0.51666	0.47179	244	1.98	1.69508	1.54786
245	.601 x	0.51576	0.47117	245	1.97 x	1.69212	1.54584
246	.6	0.51486	0.47056	246	1.97	1.68917	1.54384
247	.598	0.51397	0.46996	247	1.96	1.68625	1.54186
248	.597	0.51309	0.46936	248	1.96	1.68335	1.53988
249	.595	0.51221	0.46876	249	1.95	1.68047	1.53791
250	.594 x	0.51134	0.46816	250	1.95 x	1.67761	1.53596
251	.592	0.51047	0.46757	251	1.94	1.67477	1.53402

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Schneider ALPA Apo Switar - AAS 90

Schneider Helical Mount 25 SCH 0101-U21
 Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.591	0.50961	0.46698	252	1.94	1.67195	1.53209
253	.589	0.50875	0.46640	253	1.93	1.66914	1.53017
254	.588	0.50791	0.46582	254	1.93	1.66636	1.52827
255	.586 x	0.50706	0.46524	255	1.92 x	1.66359	1.52637
256	.585	0.50623	0.46466	256	1.92	1.66084	1.52449
257	.583	0.50539	0.46409	257	1.91	1.65811	1.52261
258	.582	0.50457	0.46352	258	1.91	1.65540	1.52075
259	.581	0.50375	0.46296	259	1.91	1.65271	1.51890
260	.579 x	0.50293	0.46240	260	1.9 x	1.65004	1.51706
261	.578	0.50212	0.46184	261	1.9	1.64738	1.51523
262	.577	0.50132	0.46129	262	1.89	1.64474	1.51341
263	.575	0.50052	0.46074	263	1.89	1.64212	1.51160
264	.574	0.49972	0.46019	264	1.88	1.63951	1.50980
265	.573 x	0.49893	0.45964	265	1.88 x	1.63692	1.50801
266	.571	0.49815	0.45910	266	1.87	1.63435	1.50624
267	.57	0.49737	0.45856	267	1.87	1.63180	1.50447
268	.569	0.49660	0.45803	268	1.87	1.62926	1.50271
269	.567	0.49583	0.45749	269	1.86	1.62674	1.50097
270	.566 x	0.49507	0.45697	270	1.86 x	1.62423	1.49923

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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**
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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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**
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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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**
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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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**
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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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**
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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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**
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

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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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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**
252	1.17	0.76373	0.52721	252	3.83	2.50566	1.72969
253	1.16	0.76244	0.52682	253	3.81	2.50144	1.72841
254	1.16	0.76116	0.52643	254	3.8	2.49724	1.72713
255	1.15 x	0.75988	0.52604	255	3.79 x	2.49306	1.72585
256	1.15	0.75862	0.52565	256	3.78	2.48890	1.72458
257	1.15	0.75735	0.52526	257	3.76	2.48476	1.72331
258	1.14	0.75610	0.52488	258	3.75	2.48063	1.72204
259	1.14	0.75485	0.52449	259	3.74	2.47653	1.72078
260	1.14 x	0.75360	0.52411	260	3.73 x	2.47244	1.71952
261	1.13	0.75236	0.52373	261	3.72	2.46838	1.71827
262	1.13	0.75113	0.52335	262	3.7	2.46433	1.71702
263	1.13	0.74990	0.52297	263	3.69	2.46031	1.71577
264	1.12	0.74868	0.52259	264	3.68	2.45630	1.71452
265	1.12 x	0.74746	0.52221	265	3.67 x	2.45231	1.71328
266	1.11	0.74625	0.52183	266	3.66	2.44833	1.71205
267	1.11	0.74505	0.52146	267	3.65	2.44438	1.71081
268	1.11	0.74385	0.52108	268	3.64	2.44044	1.70958
269	1.1	0.74265	0.52071	269	3.62	2.43653	1.70835
270	1.1 x	0.74146	0.52033	270	3.61 x	2.43263	1.70713

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Schneider Apo-Digitar - SAD 100

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	1.90431	1.13728	0	∞	XX	6.24775	3.73122
1	367	XX	1.89651	1.13497	1	1204	XX	6.22216	3.72365
2	184	XX	1.88879	1.13268	2	602	XX	6.19681	3.71613
3	122	XX	1.88113	1.13039	3	402	XX	6.17169	3.70864
4	91.9	XX	1.87354	1.12812	4	302	XX	6.14680	3.70119
5	73.6	X	1.86603	1.12586	5	241	X	6.12213	3.69378
6	61.3		1.85858	1.12361	6	201		6.09769	3.68640
7	52.6		1.85119	1.12138	7	173		6.07347	3.67906
8	46.1		1.84388	1.11915	8	151		6.04946	3.67176
9	41		1.83662	1.11694	9	134		6.02567	3.66449
10	36.9	X	1.82944	1.11473	10	121	X	6.00209	3.65727
11	33.6		1.82231	1.11254	11	110		5.97872	3.65007
12	30.8		1.81525	1.11036	12	101		5.95556	3.64292
13	28.4		1.80825	1.10819	13	93.2		5.93259	3.63579
14	26.4		1.80132	1.10603	14	86.6		5.90983	3.62871
15	24.7	X	1.79444	1.10388	15	80.9	X	5.88727	3.62166
16	23.1		1.78762	1.10174	16	75.9		5.86490	3.61464
17	21.8		1.78086	1.09961	17	71.5		5.84272	3.60766
18	20.6		1.77416	1.09750	18	67.5		5.82074	3.60071
19	19.5		1.76752	1.09539	19	64		5.79894	3.59379
20	18.5	X	1.76093	1.09329	20	60.8	X	5.77733	3.58691
21	17.7		1.75440	1.09120	21	58		5.75590	3.58006
22	16.9		1.74792	1.08913	22	55.4		5.73465	3.57325
23	16.2		1.74150	1.08706	23	53		5.71358	3.56647
24	15.5		1.73513	1.08500	24	50.8		5.69269	3.55972
25	14.9	X	1.72882	1.08296	25	48.8	X	5.67197	3.55300
26	14.3		1.72255	1.08092	26	47		5.65142	3.54632
27	13.8		1.71634	1.07889	27	45.2		5.63105	3.53967
28	13.3		1.71018	1.07687	28	43.6		5.61084	3.53305
29	12.9		1.70407	1.07486	29	42.2		5.59079	3.52646
30	12.4	X	1.69801	1.07287	30	40.8	X	5.57092	3.51990
31	12		1.69200	1.07088	31	39.5		5.55120	3.51338
32	11.7		1.68604	1.06890	32	38.3		5.53164	3.50688
33	11.3		1.68013	1.06693	33	37.1		5.51224	3.50042
34	11		1.67426	1.06497	34	36.1		5.49299	3.49398
35	10.7	X	1.66845	1.06301	35	35	X	5.47390	3.48758

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Schneider Apo-Digitar - SAD 100

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	10.4	1.66267	1.06107	36	34.1	5.45496	3.48121
37	10.1	1.65695	1.05914	37	33.2	5.43618	3.47486
38	9.86	1.65127	1.05721	38	32.3	5.41754	3.46855
39	9.61	1.64563	1.05530	39	31.5	5.39905	3.46226
40	9.37 x	1.64004	1.05339	40	30.8 x	5.38070	3.45601
41	9.15	1.63449	1.05149	41	30	5.36249	3.44978
42	8.94	1.62898	1.04961	42	29.3	5.34443	3.44359
43	8.73	1.62352	1.04772	43	28.7	5.32651	3.43742
44	8.54	1.61810	1.04585	44	28	5.30873	3.43128
45	8.35 x	1.61272	1.04399	45	27.4 x	5.29108	3.42517
46	8.18	1.60738	1.04214	46	26.8	5.27357	3.41908
47	8.01	1.60209	1.04029	47	26.3	5.25619	3.41303
48	7.84	1.59683	1.03845	48	25.7	5.23895	3.40700
49	7.69	1.59162	1.03662	49	25.2	5.22184	3.40100
50	7.54 x	1.58644	1.03480	50	24.7 x	5.20485	3.39502
51	7.39	1.58130	1.03299	51	24.3	5.18800	3.38908
52	7.26	1.57620	1.03119	52	23.8	5.17127	3.38316
53	7.12	1.57114	1.02939	53	23.4	5.15466	3.37726
54	7	1.56612	1.02760	54	23	5.13818	3.37140
55	6.87 x	1.56113	1.02582	55	22.5 x	5.12182	3.36556
56	6.75	1.55618	1.02405	56	22.2	5.10558	3.35975
57	6.64	1.55127	1.02229	57	21.8	5.08946	3.35396
58	6.53	1.54639	1.02053	58	21.4	5.07346	3.34820
59	6.42	1.54155	1.01878	59	21.1	5.05758	3.34246
60	6.32 x	1.53674	1.01704	60	20.7 x	5.04181	3.33675
61	6.22	1.53197	1.01531	61	20.4	5.02616	3.33107
62	6.12	1.52724	1.01358	62	20.1	5.01062	3.32541
63	6.02	1.52254	1.01187	63	19.8	4.99519	3.31977
64	5.93	1.51787	1.01016	64	19.5	4.97988	3.31416
65	5.85 x	1.51323	1.00845	65	19.2 x	4.96467	3.30858
66	5.76	1.50863	1.00676	66	18.9	4.94957	3.30302
67	5.68	1.50406	1.00507	67	18.6	4.93458	3.29748
68	5.6	1.49952	1.00339	68	18.4	4.91970	3.29197
69	5.52	1.49502	1.00172	69	18.1	4.90492	3.28648
70	5.44 x	1.49055	1.00005	70	17.9 x	4.89024	3.28102
71	5.37	1.48610	0.99840	71	17.6	4.87567	3.27558

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Schneider Apo-Digitar - SAD 100

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	5.3	1.48169	0.99675	72	17.4	4.86120	3.27016
73	5.23	1.47731	0.99510	73	17.2	4.84683	3.26477
74	5.16	1.47296	0.99347	74	16.9	4.83256	3.25940
75	5.09 x	1.46864	0.99184	75	16.7 x	4.81838	3.25405
76	5.03	1.46435	0.99021	76	16.5	4.80431	3.24873
77	4.97	1.46009	0.98860	77	16.3	4.79033	3.24343
78	4.91	1.45586	0.98699	78	16.1	4.77645	3.23815
79	4.85	1.45166	0.98539	79	15.9	4.76266	3.23290
80	4.79 x	1.44749	0.98379	80	15.7 x	4.74897	3.22767
81	4.73	1.44334	0.98220	81	15.5	4.73537	3.22246
82	4.68	1.43922	0.98062	82	15.3	4.72186	3.21727
83	4.62	1.43513	0.97905	83	15.2	4.70844	3.21210
84	4.57	1.43107	0.97748	84	15	4.69512	3.20696
85	4.52 x	1.42704	0.97592	85	14.8 x	4.68188	3.20184
86	4.47	1.42303	0.97437	86	14.7	4.66873	3.19674
87	4.42	1.41905	0.97282	87	14.5	4.65567	3.19166
88	4.37	1.41509	0.97128	88	14.3	4.64269	3.18660
89	4.32	1.41116	0.96974	89	14.2	4.62980	3.18156
90	4.28 x	1.40726	0.96821	90	14 x	4.61699	3.17655
91	4.23	1.40338	0.96669	91	13.9	4.60427	3.17155
92	4.19	1.39953	0.96517	92	13.7	4.59163	3.16658
93	4.15	1.39570	0.96366	93	13.6	4.57908	3.16163
94	4.11	1.39190	0.96216	94	13.5	4.56660	3.15669
95	4.06 x	1.38812	0.96066	95	13.3 x	4.55421	3.15178
96	4.02	1.38437	0.95917	96	13.2	4.54190	3.14689
97	3.98	1.38064	0.95769	97	13.1	4.52966	3.14202
98	3.95	1.37694	0.95621	98	12.9	4.51751	3.13717
99	3.91	1.37325	0.95474	99	12.8	4.50543	3.13234
100	3.87 x	1.36960	0.95327	100	12.7 x	4.49343	3.12753
101	3.84	1.36596	0.95181	101	12.6	4.48150	3.12273
102	3.8	1.36235	0.95036	102	12.5	4.46965	3.11796
103	3.76	1.35876	0.94891	103	12.4	4.45788	3.11321
104	3.73	1.35520	0.94746	104	12.2	4.44618	3.10848
105	3.7 x	1.35165	0.94603	105	12.1 x	4.43455	3.10376
106	3.66	1.34813	0.94460	106	12	4.42300	3.09907
107	3.63	1.34463	0.94317	107	11.9	4.41152	3.09439

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Schneider Apo-Digitar - SAD 100

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	3.6	1.34115	0.94175	108	11.8	4.40011	3.08974
109	3.57	1.33770	0.94034	109	11.7	4.38877	3.08510
110	3.54 x	1.33426	0.93893	110	11.6 x	4.37750	3.08048
111	3.51	1.33085	0.93753	111	11.5	4.36630	3.07588
112	3.48	1.32745	0.93613	112	11.4	4.35517	3.07130
113	3.45	1.32408	0.93474	113	11.3	4.34410	3.06673
114	3.42	1.32073	0.93335	114	11.2	4.33311	3.06219
115	3.39 x	1.31740	0.93197	115	11.1 x	4.32218	3.05766
116	3.37	1.31409	0.93060	116	11	4.31132	3.05315
117	3.34	1.31080	0.92923	117	11	4.30052	3.04866
118	3.31	1.30753	0.92787	118	10.9	4.28979	3.04418
119	3.29	1.30428	0.92651	119	10.8	4.27913	3.03973
120	3.26 x	1.30105	0.92516	120	10.7 x	4.26852	3.03529
121	3.24	1.29783	0.92381	121	10.6	4.25798	3.03087
122	3.21	1.29464	0.92247	122	10.5	4.24751	3.02647
123	3.19	1.29147	0.92113	123	10.5	4.23709	3.02208
124	3.16	1.28831	0.91980	124	10.4	4.22674	3.01771
125	3.14 x	1.28517	0.91847	125	10.3 x	4.21645	3.01336
126	3.12	1.28206	0.91715	126	10.2	4.20622	3.00903
127	3.09	1.27896	0.91583	127	10.1	4.19605	3.00471
128	3.07	1.27588	0.91452	128	10.1	4.18594	3.00041
129	3.05	1.27281	0.91322	129	10	4.17589	2.99612
130	3.03 x	1.26977	0.91192	130	9.93 x	4.16590	2.99185
131	3	1.26674	0.91062	131	9.86	4.15597	2.98760
132	2.98	1.26373	0.90933	132	9.79	4.14609	2.98337
133	2.96	1.26074	0.90805	133	9.72	4.13627	2.97915
134	2.94	1.25776	0.90676	134	9.65	4.12651	2.97495
135	2.92 x	1.25480	0.90549	135	9.58 x	4.11680	2.97076
136	2.9	1.25186	0.90422	136	9.52	4.10715	2.96659
137	2.88	1.24893	0.90295	137	9.45	4.09755	2.96244
138	2.86	1.24603	0.90169	138	9.39	4.08801	2.95830
139	2.84	1.24313	0.90043	139	9.33	4.07853	2.95418
140	2.82 x	1.24026	0.89918	140	9.27 x	4.06909	2.95007
141	2.81	1.23740	0.89794	141	9.2	4.05971	2.94598
142	2.79	1.23456	0.89669	142	9.14	4.05039	2.94191
143	2.77	1.23173	0.89546	143	9.09	4.04111	2.93785

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Schneider Apo-Digitar - SAD 100

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	2.75	1.22892	0.89422	144	9.03	4.03189	2.93380
145	2.73 x	1.22613	0.89300	145	8.97 x	4.02272	2.92978
146	2.72	1.22335	0.89177	146	8.91	4.01360	2.92576
147	2.7	1.22058	0.89055	147	8.86	4.00453	2.92176
148	2.68	1.21783	0.88934	148	8.8	3.99551	2.91778
149	2.67	1.21510	0.88813	149	8.75	3.98655	2.91381
150	2.65 x	1.21238	0.88692	150	8.69 x	3.97763	2.90986
151	2.63	1.20968	0.88572	151	8.64	3.96876	2.90592
152	2.62	1.20699	0.88453	152	8.59	3.95994	2.90199
153	2.6	1.20431	0.88334	153	8.54	3.95116	2.89808
154	2.59	1.20166	0.88215	154	8.49	3.94244	2.89419
155	2.57 x	1.19901	0.88097	155	8.44 x	3.93376	2.89031
156	2.56	1.19638	0.87979	156	8.39	3.92513	2.88644
157	2.54	1.19376	0.87861	157	8.34	3.91655	2.88259
158	2.53	1.19116	0.87744	158	8.29	3.90801	2.87875
159	2.51	1.18857	0.87628	159	8.24	3.89952	2.87493
160	2.5 x	1.18600	0.87512	160	8.19 x	3.89107	2.87112
161	2.48	1.18344	0.87396	161	8.15	3.88267	2.86732
162	2.47	1.18089	0.87281	162	8.1	3.87432	2.86354
163	2.46	1.17836	0.87166	163	8.05	3.86601	2.85977
164	2.44	1.17584	0.87052	164	8.01	3.85774	2.85602
165	2.43 x	1.17333	0.86937	165	7.97 x	3.84952	2.85228
166	2.41	1.17084	0.86824	166	7.92	3.84134	2.84855
167	2.4	1.16836	0.86711	167	7.88	3.83320	2.84484
168	2.39	1.16589	0.86598	168	7.84	3.82511	2.84114
169	2.38	1.16344	0.86486	169	7.79	3.81706	2.83746
170	2.36 x	1.16100	0.86374	170	7.75 x	3.80905	2.83378
171	2.35	1.15857	0.86262	171	7.71	3.80109	2.83012
172	2.34	1.15616	0.86151	172	7.67	3.79316	2.82648
173	2.33	1.15375	0.86040	173	7.63	3.78528	2.82284
174	2.31	1.15136	0.85930	174	7.59	3.77743	2.81922
175	2.3 x	1.14898	0.85820	175	7.55 x	3.76963	2.81562
176	2.29	1.14662	0.85710	176	7.51	3.76187	2.81202
177	2.28	1.14426	0.85601	177	7.47	3.75415	2.80844
178	2.27	1.14192	0.85493	178	7.43	3.74647	2.80487
179	2.25	1.13959	0.85384	179	7.4	3.73882	2.80132

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Schneider Apo-Digitar - SAD 100

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
180	2.24 x	1.13728	0.85276	180	7.36 x	3.73122	2.79777
181	2.23	1.13497	0.85169	181	7.32	3.72365	2.79424
182	2.22	1.13268	0.85061	182	7.29	3.71613	2.79073
183	2.21	1.13039	0.84954	183	7.25	3.70864	2.78722
184	2.2	1.12812	0.84848	184	7.21	3.70119	2.78373
185	2.19 x	1.12586	0.84742	185	7.18 x	3.69378	2.78025
186	2.18	1.12361	0.84636	186	7.14	3.68640	2.77678
187	2.17	1.12138	0.84531	187	7.11	3.67906	2.77332
188	2.16	1.11915	0.84426	188	7.08	3.67176	2.76988
189	2.15	1.11694	0.84321	189	7.04	3.66449	2.76645
190	2.14 x	1.11473	0.84217	190	7.01 x	3.65727	2.76303
191	2.13	1.11254	0.84113	191	6.97	3.65007	2.75962
192	2.12	1.11036	0.84010	192	6.94	3.64292	2.75622
193	2.11	1.10819	0.83906	193	6.91	3.63579	2.75284
194	2.1	1.10603	0.83804	194	6.88	3.62871	2.74946
195	2.09 x	1.10388	0.83701	195	6.85 x	3.62166	2.74610
196	2.08	1.10174	0.83599	196	6.81	3.61464	2.74275
197	2.07	1.09961	0.83497	197	6.78	3.60766	2.73942
198	2.06	1.09750	0.83396	198	6.75	3.60071	2.73609
199	2.05	1.09539	0.83295	199	6.72	3.59379	2.73278
200	2.04 x	1.09329	0.83194	200	6.69 x	3.58691	2.72947
201	2.03	1.09120	0.83094	201	6.66	3.58006	2.72618
202	2.02	1.08913	0.82994	202	6.63	3.57325	2.72290
203	2.01	1.08706	0.82894	203	6.6	3.56647	2.71963
204	2	1.08500	0.82795	204	6.57	3.55972	2.71637
205	2 x	1.08296	0.82696	205	6.55 x	3.55300	2.71313
206	1.99	1.08092	0.82597	206	6.52	3.54632	2.70989
207	1.98	1.07889	0.82499	207	6.49	3.53967	2.70667
208	1.97	1.07687	0.82401	208	6.46	3.53305	2.70345
209	1.96	1.07486	0.82304	209	6.43	3.52646	2.70025
210	1.95 x	1.07287	0.82206	210	6.41 x	3.51990	2.69706
211	1.94	1.07088	0.82109	211	6.38	3.51338	2.69388
212	1.94	1.06890	0.82013	212	6.35	3.50688	2.69071
213	1.93	1.06693	0.81916	213	6.33	3.50042	2.68755
214	1.92	1.06497	0.81820	214	6.3	3.49398	2.68440
215	1.91 x	1.06301	0.81725	215	6.27 x	3.48758	2.68126

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Schneider Apo-Digitar - SAD 100

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
216	1.9	1.06107	0.81629	216	6.25	3.48121	2.67813
217	1.9	1.05914	0.81534	217	6.22	3.47486	2.67502
218	1.89	1.05721	0.81440	218	6.2	3.46855	2.67191
219	1.88	1.05530	0.81345	219	6.17	3.46226	2.66881
220	1.87 x	1.05339	0.81251	220	6.15 x	3.45601	2.66573
221	1.87	1.05149	0.81158	221	6.12	3.44978	2.66265
222	1.86	1.04961	0.81064	222	6.1	3.44359	2.65958
223	1.85	1.04772	0.80971	223	6.07	3.43742	2.65653
224	1.84	1.04585	0.80878	224	6.05	3.43128	2.65348
225	1.84 x	1.04399	0.80786	225	6.03 x	3.42517	2.65045
226	1.83	1.04214	0.80693	226	6	3.41908	2.64742
227	1.82	1.04029	0.80602	227	5.98	3.41303	2.64441
228	1.82	1.03845	0.80510	228	5.96	3.40700	2.64140
229	1.81	1.03662	0.80419	229	5.93	3.40100	2.63841
230	1.8 x	1.03480	0.80328	230	5.91 x	3.39502	2.63542
231	1.79	1.03299	0.80237	231	5.89	3.38908	2.63245
232	1.79	1.03119	0.80147	232	5.86	3.38316	2.62948
233	1.78	1.02939	0.80057	233	5.84	3.37726	2.62653
234	1.77	1.02760	0.79967	234	5.82	3.37140	2.62358
235	1.77 x	1.02582	0.79877	235	5.8 x	3.36556	2.62064
236	1.76	1.02405	0.79788	236	5.78	3.35975	2.61772
237	1.75	1.02229	0.79699	237	5.76	3.35396	2.61480
238	1.75	1.02053	0.79610	238	5.73	3.34820	2.61189
239	1.74	1.01878	0.79522	239	5.71	3.34246	2.60899
240	1.74 x	1.01704	0.79434	240	5.69 x	3.33675	2.60610
241	1.73	1.01531	0.79346	241	5.67	3.33107	2.60322
242	1.72	1.01358	0.79259	242	5.65	3.32541	2.60035
243	1.72	1.01187	0.79172	243	5.63	3.31977	2.59749
244	1.71	1.01016	0.79085	244	5.61	3.31416	2.59464
245	1.7 x	1.00845	0.78998	245	5.59 x	3.30858	2.59180
246	1.7	1.00676	0.78912	246	5.57	3.30302	2.58896
247	1.69	1.00507	0.78825	247	5.55	3.29748	2.58614
248	1.69	1.00339	0.78740	248	5.53	3.29197	2.58332
249	1.68	1.00172	0.78654	249	5.51	3.28648	2.58052
250	1.67 x	1.00005	0.78569	250	5.49 x	3.28102	2.57772
251	1.67	0.99840	0.78484	251	5.47	3.27558	2.57493

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Schneider Apo-Digitar - SAD 100

Schneider Standard Copal 0
Hub in mm per degree: 0.02778

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	1.66	0.99675	0.78399	252	5.45	3.27016	2.57215
253	1.66	0.99510	0.78315	253	5.44	3.26477	2.56938
254	1.65	0.99347	0.78230	254	5.42	3.25940	2.56662
255	1.65 x	0.99184	0.78147	255	5.4 x	3.25405	2.56386
256	1.64	0.99021	0.78063	256	5.38	3.24873	2.56112
257	1.63	0.98860	0.77980	257	5.36	3.24343	2.55838
258	1.63	0.98699	0.77896	258	5.34	3.23815	2.55566
259	1.62	0.98539	0.77814	259	5.33	3.23290	2.55294
260	1.62 x	0.98379	0.77731	260	5.31 x	3.22767	2.55023
261	1.61	0.98220	0.77649	261	5.29	3.22246	2.54752
262	1.61	0.98062	0.77566	262	5.27	3.21727	2.54483
263	1.6	0.97905	0.77485	263	5.26	3.21210	2.54215
264	1.6	0.97748	0.77403	264	5.24	3.20696	2.53947
265	1.59 x	0.97592	0.77322	265	5.22 x	3.20184	2.53680
266	1.59	0.97437	0.77241	266	5.2	3.19674	2.53414
267	1.58	0.97282	0.77160	267	5.19	3.19166	2.53149
268	1.58	0.97128	0.77079	268	5.17	3.18660	2.52885
269	1.57	0.96974	0.76999	269	5.15	3.18156	2.52621
270	1.57 x	0.96821	0.76919	270	5.14 x	3.17655	2.52359

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Schneider ALPA Apo Helvetar Aspheric - AAH 120

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter		H +6**	H +17**	Degrees*	Feet		H +6**	H +17**
0	∞	XX	2.79814	1.64542	0	∞	XX	9.18026	5.39837
1	184	XX	2.76334	1.63506	1	602	XX	9.06607	5.36438
2	91.9	XX	2.72947	1.62486	2	302	XX	8.95496	5.33089
3	61.4	XX	2.69651	1.61480	3	201	XX	8.84683	5.29791
4	46.1	XX	2.66443	1.60490	4	151	XX	8.74155	5.26541
5	36.9	X	2.63317	1.59514	5	121	X	8.63902	5.23339
6	30.8		2.60272	1.58552	6	101		8.53911	5.20184
7	26.4		2.57305	1.57604	7	86.8		8.44175	5.17075
8	23.2		2.54411	1.56670	8	76		8.34683	5.14011
9	20.6		2.51590	1.55750	9	67.7		8.25425	5.10990
10	18.6	X	2.48837	1.54842	10	61	X	8.16394	5.08012
11	16.9		2.46151	1.53947	11	55.5		8.07582	5.05077
12	15.5		2.43529	1.53065	12	50.9		7.98979	5.02182
13	14.4		2.40969	1.52195	13	47.1		7.90580	4.99328
14	13.3		2.38469	1.51337	14	43.8		7.82377	4.96514
15	12.5	X	2.36026	1.50491	15	40.9	X	7.74363	4.93738
16	11.7		2.33639	1.49657	16	38.4		7.66532	4.91000
17	11		2.31306	1.48833	17	36.2		7.58877	4.88299
18	10.4		2.29025	1.48021	18	34.2		7.51393	4.85634
19	9.9		2.26794	1.47220	19	32.5		7.44075	4.83005
20	9.42	X	2.24612	1.46429	20	30.9	X	7.36916	4.80411
21	8.98		2.22477	1.45649	21	29.5		7.29911	4.77851
22	8.58		2.20387	1.44879	22	28.2		7.23056	4.75325
23	8.22		2.18342	1.44119	23	27		7.16346	4.72832
24	7.89		2.16340	1.43369	24	25.9		7.09776	4.70371
25	7.58	X	2.14379	1.42629	25	24.9	X	7.03343	4.67942
26	7.3		2.12458	1.41898	26	24		6.97041	4.65544
27	7.04		2.10576	1.41176	27	23.1		6.90867	4.63176
28	6.8		2.08732	1.40464	28	22.3		6.84817	4.60839
29	6.57		2.06925	1.39760	29	21.6		6.78887	4.58530
30	6.36	X	2.05153	1.39065	30	20.9	X	6.73075	4.56251
31	6.16		2.03416	1.38379	31	20.2		6.67375	4.54000
32	5.98		2.01712	1.37701	32	19.6		6.61786	4.51777
33	5.8		2.00041	1.37032	33	19		6.56304	4.49580
34	5.64		1.98402	1.36371	34	18.5		6.50925	4.47411
35	5.49	X	1.96794	1.35718	35	18	X	6.45648	4.45268

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Schneider ALPA Apo Helvetar Aspheric - AAH 120

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
36	5.34	1.95215	1.35072	36	17.5	6.40469	4.43151
37	5.2	1.93665	1.34435	37	17.1	6.35385	4.41059
38	5.07	1.92144	1.33805	38	16.6	6.30395	4.38993
39	4.95	1.90651	1.33182	39	16.2	6.25495	4.36950
40	4.83 x	1.89184	1.32567	40	15.9 x	6.20682	4.34932
41	4.72	1.87743	1.31959	41	15.5	6.15956	4.32937
42	4.61	1.86328	1.31358	42	15.1	6.11313	4.30966
43	4.51	1.84938	1.30765	43	14.8	6.06751	4.29018
44	4.42	1.83571	1.30177	44	14.5	6.02268	4.27091
45	4.32 x	1.82228	1.29597	45	14.2 x	5.97862	4.25187
46	4.24	1.80909	1.29023	46	13.9	5.93532	4.23305
47	4.15	1.79611	1.28456	47	13.6	5.89275	4.21444
48	4.07	1.78335	1.27895	48	13.4	5.85089	4.19604
49	3.99	1.77080	1.27341	49	13.1	5.80972	4.17785
50	3.92 x	1.75846	1.26792	50	12.9 x	5.76924	4.15986
51	3.85	1.74633	1.26250	51	12.6	5.72942	4.14207
52	3.78	1.73439	1.25714	52	12.4	5.69025	4.12447
53	3.71	1.72264	1.25184	53	12.2	5.65170	4.10707
54	3.65	1.71108	1.24659	54	12	5.61378	4.08986
55	3.58 x	1.69970	1.24140	55	11.8 x	5.57645	4.07284
56	3.52	1.68851	1.23627	56	11.6	5.53972	4.05600
57	3.47	1.67748	1.23119	57	11.4	5.50355	4.03934
58	3.41	1.66663	1.22617	58	11.2	5.46795	4.02286
59	3.36	1.65595	1.22120	59	11	5.43289	4.00655
60	3.31 x	1.64542	1.21628	60	10.8 x	5.39837	3.99042
61	3.26	1.63506	1.21141	61	10.7	5.36438	3.97445
62	3.21	1.62486	1.20660	62	10.5	5.33089	3.95866
63	3.16	1.61480	1.20183	63	10.4	5.29791	3.94303
64	3.12	1.60490	1.19712	64	10.2	5.26541	3.92756
65	3.07 x	1.59514	1.19245	65	10.1 x	5.23339	3.91225
66	3.03	1.58552	1.18784	66	9.94	5.20184	3.89710
67	2.99	1.57604	1.18327	67	9.8	5.17075	3.88210
68	2.95	1.56670	1.17874	68	9.67	5.14011	3.86726
69	2.91	1.55750	1.17426	69	9.54	5.10990	3.85257
70	2.87 x	1.54842	1.16983	70	9.42 x	5.08012	3.83802
71	2.83	1.53947	1.16544	71	9.3	5.05077	3.82362

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Schneider ALPA Apo Helvetar Aspheric - AAH 120

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
72	2.8	1.53065	1.16110	72	9.18	5.02182	3.80937
73	2.76	1.52195	1.15679	73	9.07	4.99328	3.79526
74	2.73	1.51337	1.15253	74	8.95	4.96514	3.78128
75	2.7 x	1.50491	1.14832	75	8.85 x	4.93738	3.76745
76	2.66	1.49657	1.14414	76	8.74	4.91000	3.75375
77	2.63	1.48833	1.14001	77	8.64	4.88299	3.74018
78	2.6	1.48021	1.13591	78	8.54	4.85634	3.72674
79	2.57	1.47220	1.13186	79	8.44	4.83005	3.71344
80	2.54 x	1.46429	1.12784	80	8.35 x	4.80411	3.70026
81	2.52	1.45649	1.12386	81	8.25	4.77851	3.68721
82	2.49	1.44879	1.11992	82	8.16	4.75325	3.67429
83	2.46	1.44119	1.11602	83	8.08	4.72832	3.66148
84	2.44	1.43369	1.11215	84	7.99	4.70371	3.64880
85	2.41 x	1.42629	1.10833	85	7.91 x	4.67942	3.63624
86	2.38	1.41898	1.10453	86	7.82	4.65544	3.62379
87	2.36	1.41176	1.10077	87	7.74	4.63176	3.61147
88	2.34	1.40464	1.09705	88	7.67	4.60839	3.59925
89	2.31	1.39760	1.09336	89	7.59	4.58530	3.58715
90	2.29 x	1.39065	1.08971	90	7.51 x	4.56251	3.57516
91	2.27	1.38379	1.08609	91	7.44	4.54000	3.56328
92	2.25	1.37701	1.08250	92	7.37	4.51777	3.55151
93	2.22	1.37032	1.07894	93	7.3	4.49580	3.53985
94	2.2	1.36371	1.07542	94	7.23	4.47411	3.52829
95	2.18 x	1.35718	1.07193	95	7.16 x	4.45268	3.51683
96	2.16	1.35072	1.06847	96	7.1	4.43151	3.50548
97	2.14	1.34435	1.06504	97	7.03	4.41059	3.49423
98	2.12	1.33805	1.06164	98	6.97	4.38993	3.48308
99	2.11	1.33182	1.05828	99	6.91	4.36950	3.47203
100	2.09 x	1.32567	1.05494	100	6.85 x	4.34932	3.46108
101	2.07	1.31959	1.05163	101	6.79	4.32937	3.45022
102	2.05	1.31358	1.04835	102	6.73	4.30966	3.43946
103	2.03	1.30765	1.04510	103	6.67	4.29018	3.42879
104	2.02	1.30177	1.04187	104	6.62	4.27091	3.41822
105	2 x	1.29597	1.03868	105	6.56 x	4.25187	3.40773
106	1.98	1.29023	1.03551	106	6.51	4.23305	3.39734
107	1.97	1.28456	1.03237	107	6.46	4.21444	3.38704

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Schneider ALPA Apo Helvetar Aspheric - AAH 120

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
108	1.95	1.27895	1.02926	108	6.4	4.19604	3.37682
109	1.94	1.27341	1.02617	109	6.35	4.17785	3.36669
110	1.92 x	1.26792	1.02311	110	6.3 x	4.15986	3.35665
111	1.91	1.26250	1.02007	111	6.25	4.14207	3.34669
112	1.89	1.25714	1.01706	112	6.21	4.12447	3.33682
113	1.88	1.25184	1.01408	113	6.16	4.10707	3.32703
114	1.86	1.24659	1.01112	114	6.11	4.08986	3.31732
115	1.85 x	1.24140	1.00818	115	6.07 x	4.07284	3.30769
116	1.84	1.23627	1.00527	116	6.02	4.05600	3.29814
117	1.82	1.23119	1.00239	117	5.98	4.03934	3.28867
118	1.81	1.22617	0.99952	118	5.94	4.02286	3.27928
119	1.8	1.22120	0.99669	119	5.89	4.00655	3.26997
120	1.78 x	1.21628	0.99387	120	5.85 x	3.99042	3.26073
121	1.77	1.21141	0.99108	121	5.81	3.97445	3.25156
122	1.76	1.20660	0.98831	122	5.77	3.95866	3.24248
123	1.75	1.20183	0.98556	123	5.73	3.94303	3.23346
124	1.73	1.19712	0.98283	124	5.69	3.92756	3.22452
125	1.72 x	1.19245	0.98013	125	5.65 x	3.91225	3.21565
126	1.71	1.18784	0.97745	126	5.61	3.89710	3.20684
127	1.7	1.18327	0.97479	127	5.58	3.88210	3.19811
128	1.69	1.17874	0.97215	128	5.54	3.86726	3.18945
129	1.68	1.17426	0.96953	129	5.5	3.85257	3.18086
130	1.67 x	1.16983	0.96693	130	5.47 x	3.83802	3.17234
131	1.66	1.16544	0.96435	131	5.43	3.82362	3.16388
132	1.65	1.16110	0.96179	132	5.4	3.80937	3.15549
133	1.64	1.15679	0.95925	133	5.36	3.79526	3.14716
134	1.62	1.15253	0.95674	134	5.33	3.78128	3.13890
135	1.61 x	1.14832	0.95424	135	5.3 x	3.76745	3.13070
136	1.6	1.14414	0.95176	136	5.27	3.75375	3.12256
137	1.6	1.14001	0.94930	137	5.23	3.74018	3.11449
138	1.59	1.13591	0.94686	138	5.2	3.72674	3.10648
139	1.58	1.13186	0.94443	139	5.17	3.71344	3.09853
140	1.57 x	1.12784	0.94203	140	5.14 x	3.70026	3.09064
141	1.56	1.12386	0.93964	141	5.11	3.68721	3.08282
142	1.55	1.11992	0.93727	142	5.08	3.67429	3.07505
143	1.54	1.11602	0.93492	143	5.05	3.66148	3.06733

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Schneider ALPA Apo Helvetar Aspheric - AAH 120

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
144	1.53	1.11215	0.93259	144	5.02	3.64880	3.05968
145	1.52 x	1.10833	0.93028	145	4.99 x	3.63624	3.05208
146	1.51	1.10453	0.92798	146	4.97	3.62379	3.04454
147	1.5	1.10077	0.92570	147	4.94	3.61147	3.03706
148	1.5	1.09705	0.92343	148	4.91	3.59925	3.02963
149	1.49	1.09336	0.92118	149	4.88	3.58715	3.02226
150	1.48 x	1.08971	0.91895	150	4.86 x	3.57516	3.01494
151	1.47	1.08609	0.91674	151	4.83	3.56328	3.00767
152	1.46	1.08250	0.91454	152	4.8	3.55151	3.00046
153	1.46	1.07894	0.91236	153	4.78	3.53985	2.99330
154	1.45	1.07542	0.91019	154	4.75	3.52829	2.98619
155	1.44 x	1.07193	0.90804	155	4.73 x	3.51683	2.97914
156	1.43	1.06847	0.90591	156	4.7	3.50548	2.97213
157	1.43	1.06504	0.90379	157	4.68	3.49423	2.96518
158	1.42	1.06164	0.90168	158	4.66	3.48308	2.95827
159	1.41	1.05828	0.89959	159	4.63	3.47203	2.95142
160	1.4 x	1.05494	0.89752	160	4.61 x	3.46108	2.94461
161	1.4	1.05163	0.89546	161	4.59	3.45022	2.93785
162	1.39	1.04835	0.89341	162	4.56	3.43946	2.93114
163	1.38	1.04510	0.89138	163	4.54	3.42879	2.92448
164	1.38	1.04187	0.88936	164	4.52	3.41822	2.91786
165	1.37 x	1.03868	0.88736	165	4.5 x	3.40773	2.91129
166	1.36	1.03551	0.88537	166	4.47	3.39734	2.90476
167	1.36	1.03237	0.88340	167	4.45	3.38704	2.89828
168	1.35	1.02926	0.88144	168	4.43	3.37682	2.89185
169	1.34	1.02617	0.87949	169	4.41	3.36669	2.88546
170	1.34 x	1.02311	0.87755	170	4.39 x	3.35665	2.87912
171	1.33	1.02007	0.87563	171	4.37	3.34669	2.87281
172	1.33	1.01706	0.87373	172	4.35	3.33682	2.86656
173	1.32	1.01408	0.87183	173	4.33	3.32703	2.86034
174	1.31	1.01112	0.86995	174	4.31	3.31732	2.85417
175	1.31 x	1.00818	0.86808	175	4.29 x	3.30769	2.84804
176	1.3	1.00527	0.86623	176	4.27	3.29814	2.84195
177	1.3	1.00239	0.86438	177	4.25	3.28867	2.83590
178	1.29	0.99952	0.86255	178	4.23	3.27928	2.82989
179	1.28	0.99669	0.86073	179	4.21	3.26997	2.82392

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** H +6/17 = theoretical distance using the respective hub of the helical plus macro tube of the corresponding dimension (in mm) at a given degree setting - Please check if distance is achievable in reality as the c might be within the optical system!

Schneider ALPA Apo Helvetar Aspheric - AAH 120

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter		H +6**	H +17**		Degrees*	Feet		H +6**	H +17**
180	1.28 x		0.99387	0.85893		180	4.2 x		3.26073	2.81800
181	1.27		0.99108	0.85713		181	4.18		3.25156	2.81211
182	1.27		0.98831	0.85535		182	4.16		3.24248	2.80626
183	1.26		0.98556	0.85358		183	4.14		3.23346	2.80045
184	1.26		0.98283	0.85182		184	4.12		3.22452	2.79468
185	1.25 x		0.98013	0.85007		185	4.11 x		3.21565	2.78895
186	1.25		0.97745	0.84834		186	4.09		3.20684	2.78325
187	1.24		0.97479	0.84661		187	4.07		3.19811	2.77760
188	1.24		0.97215	0.84490		188	4.06		3.18945	2.77198
189	1.23		0.96953	0.84320		189	4.04		3.18086	2.76639
190	1.23 x		0.96693	0.84151		190	4.02 x		3.17234	2.76084
191	1.22		0.96435	0.83983		191	4.01		3.16388	2.75533
192	1.22		0.96179	0.83816		192	3.99		3.15549	2.74986
193	1.21		0.95925	0.83650		193	3.97		3.14716	2.74442
194	1.21		0.95674	0.83485		194	3.96		3.13890	2.73901
195	1.2 x		0.95424	0.83321		195	3.94 x		3.13070	2.73364
196	1.2		0.95176	0.83159		196	3.93		3.12256	2.72831
197	1.19		0.94930	0.82997		197	3.91		3.11449	2.72300
198	1.19		0.94686	0.82837		198	3.9		3.10648	2.71773
199	1.18		0.94443	0.82677		199	3.88		3.09853	2.71250
200	1.18 x		0.94203	0.82518		200	3.87 x		3.09064	2.70730
201	1.17		0.93964	0.82361		201	3.85		3.08282	2.70213
202	1.17		0.93727	0.82204		202	3.84		3.07505	2.69699
203	1.17		0.93492	0.82049		203	3.82		3.06733	2.69189
204	1.16		0.93259	0.81894		204	3.81		3.05968	2.68682
205	1.16 x		0.93028	0.81741		205	3.8 x		3.05208	2.68178
206	1.15		0.92798	0.81588		206	3.78		3.04454	2.67677
207	1.15		0.92570	0.81436		207	3.77		3.03706	2.67179
208	1.14		0.92343	0.81285		208	3.75		3.02963	2.66685
209	1.14		0.92118	0.81136		209	3.74		3.02226	2.66193
210	1.14 x		0.91895	0.80987		210	3.73 x		3.01494	2.65704
211	1.13		0.91674	0.80839		211	3.71		3.00767	2.65219
212	1.13		0.91454	0.80692		212	3.7		3.00046	2.64736
213	1.12		0.91236	0.80545		213	3.69		2.99330	2.64257
214	1.12		0.91019	0.80400		214	3.67		2.98619	2.63780
215	1.12 x		0.90804	0.80256		215	3.66 x		2.97914	2.63306

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Schneider ALPA Apo Helvetar Aspheric - AAH 120

Schneider Helical Mount 25 SCH 0101-U21
Hub in mm per degree: 0.08333

Degrees*	Meter		H +6**	H +17**		Degrees*	Feet	H +6**	H +17**
216	1.11		0.90591	0.80112		216	3.65	2.97213	2.62835
217	1.11		0.90379	0.79970		217	3.64	2.96518	2.62367
218	1.1		0.90168	0.79828		218	3.62	2.95827	2.61902
219	1.1		0.89959	0.79687		219	3.61	2.95142	2.61440
220	1.1	x	0.89752	0.79547		220	3.6	x	2.94461
221	1.09		0.89546	0.79407		221	3.59	2.93785	2.60523
222	1.09		0.89341	0.79269		222	3.58	2.93114	2.60069
223	1.09		0.89138	0.79131		223	3.56	2.92448	2.59618
224	1.08		0.88936	0.78995		224	3.55	2.91786	2.59169
225	1.08	x	0.88736	0.78859		225	3.54	x	2.91129
226	1.08		0.88537	0.78724		226	3.53	2.90476	2.58280
227	1.07		0.88340	0.78589		227	3.52	2.89828	2.57839
228	1.07		0.88144	0.78456		228	3.51	2.89185	2.57401
229	1.07		0.87949	0.78323		229	3.49	2.88546	2.56965
230	1.06	x	0.87755	0.78191		230	3.48	x	2.87912
231	1.06		0.87563	0.78060		231	3.47	2.87281	2.56101
232	1.05		0.87373	0.77929		232	3.46	2.86656	2.55673
233	1.05		0.87183	0.77800		233	3.45	2.86034	2.55248
234	1.05		0.86995	0.77671		234	3.44	2.85417	2.54825
235	1.05	x	0.86808	0.77542		235	3.43	x	2.84804
236	1.04		0.86623	0.77415		236	3.42	2.84195	2.53986
237	1.04		0.86438	0.77288		237	3.41	2.83590	2.53570
238	1.04		0.86255	0.77162		238	3.4	2.82989	2.53157
239	1.03		0.86073	0.77037		239	3.39	2.82392	2.52746
240	1.03	x	0.85893	0.76912		240	3.38	x	2.81800
241	1.03		0.85713	0.76789		241	3.37	2.81211	2.51931
242	1.02		0.85535	0.76666		242	3.36	2.80626	2.51527
243	1.02		0.85358	0.76543		243	3.35	2.80045	2.51126
244	1.02		0.85182	0.76421		244	3.34	2.79468	2.50726
245	1.01	x	0.85007	0.76300		245	3.33	x	2.78895
246	1.01		0.84834	0.76180		246	3.32	2.78325	2.49934
247	1.01		0.84661	0.76060		247	3.31	2.77760	2.49542
248	1.01		0.84490	0.75941		248	3.3	2.77198	2.49151
249	1		0.84320	0.75823		249	3.29	2.76639	2.48763
250	1	x	0.84151	0.75705		250	3.28	x	2.76084
251	.997		0.83983	0.75588		251	3.27	2.75533	2.47993

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Schneider ALPA Apo Helvetar Aspheric - AAH 120

Schneider Helical Mount 25 SCH 0101-U21
 Hub in mm per degree: 0.08333

Degrees*	Meter	H +6**	H +17**	Degrees*	Feet	H +6**	H +17**
252	.994	0.83816	0.75472	252	3.26	2.74986	2.47611
253	.991	0.83650	0.75356	253	3.25	2.74442	2.47232
254	.988	0.83485	0.75241	254	3.24	2.73901	2.46854
255	.986 x	0.83321	0.75127	255	3.23 x	2.73364	2.46479
256	.983	0.83159	0.75013	256	3.22	2.72831	2.46105
257	.98	0.82997	0.74900	257	3.22	2.72300	2.45734
258	.977	0.82837	0.74787	258	3.21	2.71773	2.45365
259	.975	0.82677	0.74675	259	3.2	2.71250	2.44998
260	.972 x	0.82518	0.74564	260	3.19 x	2.70730	2.44633
261	.97	0.82361	0.74453	261	3.18	2.70213	2.44269
262	.967	0.82204	0.74343	262	3.17	2.69699	2.43908
263	.964	0.82049	0.74234	263	3.16	2.69189	2.43549
264	.962	0.81894	0.74125	264	3.16	2.68682	2.43192
265	.959 x	0.81741	0.74016	265	3.15 x	2.68178	2.42836
266	.957	0.81588	0.73909	266	3.14	2.67677	2.42483
267	.954	0.81436	0.73802	267	3.13	2.67179	2.42131
268	.952	0.81285	0.73695	268	3.12	2.66685	2.41782
269	.949	0.81136	0.73589	269	3.11	2.66193	2.41434
270	.947 x	0.80987	0.73484	270	3.11 x	2.65704	2.41088

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