

0 min

Schalttafel

1 min

0 min	Zuwachs Grt					1 min	Zuwachs Grt				
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb
s	° ' "	° ' "	° ' "	' "	' "	s	° ' "	° ' "	° ' "	' "	' "
0	0 00.0	0 00.0	0 00.0	0.0	0.0	0	0 15.0	0 15.0	0 14.3	0.0	0.0
1	0 00.3	0 00.3	0 00.2	0.3	0.0	1	0 15.3	0 15.3	0 14.6	0.3	0.0
2	0 00.5	0 00.5	0 00.5	0.6	0.0	2	0 15.5	0 15.5	0 14.8	0.6	0.0
3	0 00.8	0 00.8	0 00.7	0.9	0.0	3	0 15.8	0 15.8	0 15.0	0.9	0.0
4	0 01.0	0 01.0	0 01.0	1.2	0.0	4	0 16.0	0 16.0	0 15.3	1.2	0.0
5	0 01.3	0 01.3	0 01.2	1.5	0.0	5	0 16.3	0 16.3	0 15.5	1.5	0.0
6	0 01.5	0 01.5	0 01.4	1.8	0.0	6	0 16.5	0 16.5	0 15.7	1.8	0.0
7	0 01.8	0 01.8	0 01.7	2.1	0.0	7	0 16.8	0 16.8	0 16.0	2.1	0.0
8	0 02.0	0 02.0	0 01.9	2.4	0.0	8	0 17.0	0 17.0	0 16.2	2.4	0.0
9	0 02.3	0 02.3	0 02.1	2.7	0.0	9	0 17.3	0 17.3	0 16.5	2.7	0.0
10	0 02.5	0 02.5	0 02.4	3.0	0.0	10	0 17.5	0 17.5	0 16.7	3.0	0.1
11	0 02.8	0 02.8	0 02.6	3.3	0.0	11	0 17.8	0 17.8	0 16.9	3.3	0.1
12	0 03.0	0 03.0	0 02.9	3.6	0.0	12	0 18.0	0 18.1	0 17.2	3.6	0.1
13	0 03.3	0 03.3	0 03.1	3.9	0.0	13	0 18.3	0 18.3	0 17.4	3.9	0.1
14	0 03.5	0 03.5	0 03.3	4.2	0.0	14	0 18.5	0 18.6	0 17.7	4.2	0.1
15	0 03.8	0 03.8	0 03.6	4.5	0.0	15	0 18.8	0 18.8	0 17.9	4.5	0.1
16	0 04.0	0 04.0	0 03.8	4.8	0.0	16	0 19.0	0 19.1	0 18.1	4.8	0.1
17	0 04.3	0 04.3	0 04.1	5.1	0.0	17	0 19.3	0 19.3	0 18.4	5.1	0.1
18	0 04.5	0 04.5	0 04.3	5.4	0.0	18	0 19.5	0 19.6	0 18.6	5.4	0.1
19	0 04.8	0 04.8	0 04.5	5.7	0.0	19	0 19.8	0 19.8	0 18.9	5.7	0.1
20	0 05.0	0 05.0	0 04.8	6.0	0.0	20	0 20.0	0 20.1	0 19.1	6.0	0.1
21	0 05.3	0 05.3	0 05.0	6.3	0.0	21	0 20.3	0 20.3	0 19.3	6.3	0.1
22	0 05.5	0 05.5	0 05.2	6.6	0.0	22	0 20.5	0 20.6	0 19.6	6.6	0.1
23	0 05.8	0 05.8	0 05.5	6.9	0.0	23	0 20.8	0 20.8	0 19.8	6.9	0.1
24	0 06.0	0 06.0	0 05.7	7.2	0.0	24	0 21.0	0 21.1	0 20.0	7.2	0.1
25	0 06.3	0 06.3	0 06.0	7.5	0.0	25	0 21.3	0 21.3	0 20.3	7.5	0.1
26	0 06.5	0 06.5	0 06.2	7.8	0.0	26	0 21.5	0 21.6	0 20.5	7.8	0.1
27	0 06.8	0 06.8	0 06.4	8.1	0.0	27	0 21.8	0 21.8	0 20.8	8.1	0.1
28	0 07.0	0 07.0	0 06.7	8.4	0.0	28	0 22.0	0 22.1	0 21.0	8.4	0.1
29	0 07.3	0 07.3	0 06.9	8.7	0.0	29	0 22.3	0 22.3	0 21.2	8.7	0.1
30	0 07.5	0 07.5	0 07.2	9.0	0.0	30	0 22.5	0 22.6	0 21.5	9.0	0.2
31	0 07.8	0 07.8	0 07.4	9.3	0.0	31	0 22.8	0 22.8	0 21.7	9.3	0.2
32	0 08.0	0 08.0	0 07.6	9.6	0.0	32	0 23.0	0 23.1	0 22.0	9.6	0.2
33	0 08.3	0 08.3	0 07.9	9.9	0.0	33	0 23.3	0 23.3	0 22.2	9.9	0.2
34	0 08.5	0 08.5	0 08.1	10.2	0.0	34	0 23.5	0 23.6	0 22.4	10.2	0.2
35	0 08.8	0 08.8	0 08.4	10.5	0.0	35	0 23.8	0 23.8	0 22.7	10.5	0.2
36	0 09.0	0 09.0	0 08.6	10.8	0.0	36	0 24.0	0 24.1	0 22.9	10.8	0.2
37	0 09.3	0 09.3	0 08.8	11.1	0.0	37	0 24.3	0 24.3	0 23.1	11.1	0.2
38	0 09.5	0 09.5	0 09.1	11.4	0.0	38	0 24.5	0 24.6	0 23.4	11.4	0.2
39	0 09.8	0 09.8	0 09.3	11.7	0.0	39	0 24.8	0 24.8	0 23.6	11.7	0.2
40	0 10.0	0 10.0	0 09.5	12.0	0.0	40	0 25.0	0 25.1	0 23.9	12.0	0.2
41	0 10.3	0 10.3	0 09.8	12.3	0.0	41	0 25.3	0 25.3	0 24.1	12.3	0.2
42	0 10.5	0 10.5	0 10.0	12.6	0.0	42	0 25.5	0 25.6	0 24.3	12.6	0.2
43	0 10.8	0 10.8	0 10.3	12.9	0.0	43	0 25.8	0 25.8	0 24.6	12.9	0.2
44	0 11.0	0 11.0	0 10.5	13.2	0.0	44	0 26.0	0 26.1	0 24.8	13.2	0.2
45	0 11.3	0 11.3	0 10.7	13.5	0.0	45	0 26.3	0 26.3	0 25.1	13.5	0.2
46	0 11.5	0 11.5	0 11.0	13.8	0.0	46	0 26.5	0 26.6	0 25.3	13.8	0.2
47	0 11.8	0 11.8	0 11.2	14.1	0.0	47	0 26.8	0 26.8	0 25.5	14.1	0.2
48	0 12.0	0 12.0	0 11.5	14.4	0.0	48	0 27.0	0 27.1	0 25.8	14.4	0.2
49	0 12.3	0 12.3	0 11.7	14.7	0.0	49	0 27.3	0 27.3	0 26.0	14.7	0.2
50	0 12.5	0 12.5	0 11.9	15.0	0.0	50	0 27.5	0 27.6	0 26.2	15.0	0.3
51	0 12.8	0 12.8	0 12.2	15.3	0.0	51	0 27.8	0 27.8	0 26.5	15.3	0.3
52	0 13.0	0 13.0	0 12.4	15.6	0.0	52	0 28.0	0 28.1	0 26.7	15.6	0.3
53	0 13.3	0 13.3	0 12.6	15.9	0.0	53	0 28.3	0 28.3	0 27.0	15.9	0.3
54	0 13.5	0 13.5	0 12.9	16.2	0.0	54	0 28.5	0 28.6	0 27.2	16.2	0.3
55	0 13.8	0 13.8	0 13.1	16.5	0.0	55	0 28.8	0 28.8	0 27.4	16.5	0.3
56	0 14.0	0 14.0	0 13.4	16.8	0.0	56	0 29.0	0 29.1	0 27.7	16.8	0.3
57	0 14.3	0 14.3	0 13.6	17.1	0.0	57	0 29.3	0 29.3	0 27.9	17.1	0.3
58	0 14.5	0 14.5	0 13.8	17.4	0.0	58	0 29.5	0 29.6	0 28.2	17.4	0.3
59	0 14.8	0 14.8	0 14.1	17.7	0.0	59	0 29.8	0 29.8	0 28.4	17.7	0.3

2 min

Schalttafel

3 min

2 min	Zuwachs Grt					3 min	Zuwachs Grt				
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb
s	° ' "	° ' "	° ' "	' "	' "	s	° ' "	° ' "	° ' "	' "	' "
0	0 30.0	0 30.1	0 28.6	0.0	0.0	0	0 45.0	0 45.1	0 43.0	0.0	0.0
1	0 30.3	0 30.3	0 28.9	0.3	0.0	1	0 45.3	0 45.4	0 43.2	0.3	0.0
2	0 30.5	0 30.6	0 29.1	0.6	0.0	2	0 45.5	0 45.6	0 43.4	0.6	0.0
3	0 30.8	0 30.8	0 29.3	0.9	0.0	3	0 45.8	0 45.9	0 43.7	0.9	0.0
4	0 31.0	0 31.1	0 29.6	1.2	0.0	4	0 46.0	0 46.1	0 43.9	1.2	0.1
5	0 31.3	0 31.3	0 29.8	1.5	0.1	5	0 46.3	0 46.4	0 44.1	1.5	0.1
6	0 31.5	0 31.6	0 30.1	1.8	0.1	6	0 46.5	0 46.6	0 44.4	1.8	0.1
7	0 31.8	0 31.8	0 30.3	2.1	0.1	7	0 46.8	0 46.9	0 44.6	2.1	0.1
8	0 32.0	0 32.1	0 30.5	2.4	0.1	8	0 47.0	0 47.1	0 44.9	2.4	0.1
9	0 32.3	0 32.3	0 30.8	2.7	0.1	9	0 47.3	0 47.4	0 45.1	2.7	0.1
10	0 32.5	0 32.6	0 31.0	3.0	0.1	10	0 47.5	0 47.6	0 45.3	3.0	0.2
11	0 32.8	0 32.8	0 31.3	3.3	0.1	11	0 47.8	0 47.9	0 45.6	3.3	0.2
12	0 33.0	0 33.1	0 31.5	3.6	0.1	12	0 48.0	0 48.1	0 45.8	3.6	0.2
13	0 33.3	0 33.3	0 31.7	3.9	0.1	13	0 48.3	0 48.4	0 46.1	3.9	0.2
14	0 33.5	0 33.6	0 32.0	4.2	0.1	14	0 48.5	0 48.6	0 46.3	4.2	0.2
15	0 33.8	0 33.8	0 32.2	4.5	0.2	15	0 48.8	0 48.9	0 46.5	4.5	0.2
16	0 34.0	0 34.1	0 32.5	4.8	0.2	16	0 49.0	0 49.1	0 46.8	4.8	0.2
17	0 34.3	0 34.3	0 32.7	5.1	0.2	17	0 49.3	0 49.4	0 47.0	5.1	0.3
18	0 34.5	0 34.6	0 32.9	5.4	0.2	18	0 49.5	0 49.6	0 47.2	5.4	0.3
19	0 34.8	0 34.8	0 33.2	5.7	0.2	19	0 49.8	0 49.9	0 47.5	5.7	0.3
20	0 35.0	0 35.1	0 33.4	6.0	0.2	20	0 50.0	0 50.1	0 47.7	6.0	0.3
21	0 35.3	0 35.3	0 33.6	6.3	0.2	21	0 50.3	0 50.4	0 48.0	6.3	0.3
22	0 35.5	0 35.6	0 33.9	6.6	0.2	22	0 50.5	0 50.6	0 48.2	6.6	0.3
23	0 35.8	0 35.8	0 34.1	6.9	0.2	23	0 50.8	0 50.9	0 48.4	6.9	0.3
24	0 36.0	0 36.1	0 34.4	7.2	0.2	24	0 51.0	0 51.1	0 48.7	7.2	0.4
25	0 36.3	0 36.4	0 34.6	7.5	0.3	25	0 51.3	0 51.4	0 48.9	7.5	0.4
26	0 36.5	0 36.6	0 34.8	7.8	0.3	26	0 51.5	0 51.6	0 49.2	7.8	0.4
27	0 36.8	0 36.9	0 35.1	8.1	0.3	27	0 51.8	0 51.9	0 49.4	8.1	0.4
28	0 37.0	0 37.1	0 35.3	8.4	0.3	28	0 52.0	0 52.1	0 49.6	8.4	0.4
29	0 37.3	0 37.4	0 35.6	8.7	0.3	29	0 52.3	0 52.4	0 49.9	8.7	0.4
30	0 37.5	0 37.6	0 35.8	9.0	0.3	30	0 52.5	0 52.6	0 50.1	9.0	0.5
31	0 37.8	0 37.9	0 36.0	9.3	0.3	31	0 52.8	0 52.9	0 50.3	9.3	0.5
32	0 38.0	0 38.1	0 36.3	9.6	0.3	32	0 53.0	0 53.1	0 50.6	9.6	0.5
33	0 38.3	0 38.4	0 36.5	9.9	0.3	33	0 53.3	0 53.4	0 50.8	9.9	0.5
34	0 38.5	0 38.6	0 36.7	10.2	0.3	34	0 53.5	0 53.6	0 51.1	10.2	0.5
35	0 38.8	0 38.9	0 37.0	10.5	0.4	35	0 53.8	0 53.9	0 51.3	10.5	0.5
36	0 39.0	0 39.1	0 37.2	10.8	0.4	36	0 54.0	0 54.2	0 51.5	10.8	0.5
37	0 39.3	0 39.4	0 37.5	11.1	0.4	37	0 54.3	0 54.4	0 51.8	11.1	0.6
38	0 39.5	0 39.6	0 37.7	11.4	0.4	38	0 54.5	0 54.7	0 52.0	11.4	0.6
39	0 39.8	0 39.9	0 37.9	11.7	0.4	39	0 54.8	0 54.9	0 52.3	11.7	0.6
40	0 40.0	0 40.1	0 38.2	12.0	0.4	40	0 55.0	0 55.2	0 52.5	12.0	0.6
41	0 40.3	0 40.4	0 38.4	12.3	0.4	41	0 55.3	0 55.4	0 52.7	12.3	0.6
42	0 40.5	0 40.6	0 38.7	12.6	0.4	42	0 55.5	0 55.7	0 53.0	12.6	0.6
43	0 40.8	0 40.9	0 38.9	12.9	0.4	43	0 55.8	0 55.9	0 53.2	12.9	0.7
44	0 41.0	0 41.1	0 39.1	13.2	0.4	44	0 56.0	0 56.2	0 53.4	13.2	0.7
45	0 41.3	0 41.4	0 39.4	13.5	0.5	45	0 56.3	0 56.4	0 53.7	13.5	0.7
46	0 41.5	0 41.6	0 39.6	13.8	0.5	46	0 56.5	0 56.7	0 53.9	13.8	0.7
47	0 41.8	0 41.9	0 39.8	14.1	0.5	47	0 56.8	0 56.9	0 54.2	14.1	0.7
48	0 42.0	0 42.1	0 40.1	14.4	0.5	48	0 57.0	0 57.2	0 54.4	14.4	0.7
49	0 42.3	0 42.4	0 40.3	14.7	0.5	49	0 57.3	0 57.4	0 54.6	14.7	0.7
50	0 42.5	0 42.6	0 40.6	15.0	0.5	50	0 57.5	0 57.7	0 54.9	15.0	0.8
51	0 42.8	0 42.9	0 40.8	15.3	0.5	51	0 57.8	0 57.9	0 55.1	15.3	0.8
52	0 43.0	0 43.1	0 41.0	15.6	0.5	52	0 58.0	0 58.2	0 55.4	15.6	0.8
53	0 43.3	0 43.4	0 41.3	15.9	0.5	53	0 58.3	0 58.4	0 55.6	15.9	0.8
54	0 43.5	0 43.6	0 41.5	16.2	0.5	54	0 58.5	0 58.7	0 55.8	16.2	0.8
55	0 43.8	0 43.9	0 41.8	16.5	0.6	55	0 58.8	0 58.9	0 56.1	16.5	0.8
56	0 44.0	0 44.1	0 42.0	16.8	0.6	56	0 59.0	0 59.2	0 56.3	16.8	0.8
57	0 44.3	0 44.4	0 42.2	17.1	0.6	57	0 59.3	0 59.4	0 56.6	17.1	0.9
58	0 44.5	0 44.6	0 42.5	17.4	0.6	58	0 59.5	0 59.7	0 56.8	17.4	0.9
59	0 44.8	0 44.9	0 42.7	17.7	0.6	59	0 59.8	0 59.9	0 57.0	17.7	0.9

4 min

Schalttafel

5 min

4 min	Zuwachs Grt					5 min	Zuwachs Grt				
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb
s	° ' "	° ' "	° ' "	' "	' "	s	° ' "	° ' "	° ' "	' "	' "
0	1 00.0	1 00.2	0 57.3	0.0	0.0	0	1 15.0	1 15.2	1 11.6	0.0	0.0
1	1 00.2	1 00.4	0 57.5	0.3	0.0	1	1 15.3	1 15.5	1 11.8	0.3	0.0
2	1 00.5	1 00.7	0 57.7	0.6	0.0	2	1 15.5	1 15.7	1 12.1	0.6	0.1
3	1 00.8	1 00.9	0 58.0	0.9	0.1	3	1 15.8	1 16.0	1 12.3	0.9	0.1
4	1 01.0	1 01.2	0 58.2	1.2	0.1	4	1 16.0	1 16.2	1 12.5	1.2	0.1
5	1 01.3	1 01.4	0 58.5	1.5	0.1	5	1 16.3	1 16.5	1 12.8	1.5	0.1
6	1 01.5	1 01.7	0 58.7	1.8	0.1	6	1 16.5	1 16.7	1 13.0	1.8	0.2
7	1 01.7	1 01.9	0 58.9	2.1	0.1	7	1 16.8	1 17.0	1 13.3	2.1	0.2
8	1 02.0	1 02.2	0 59.2	2.4	0.2	8	1 17.0	1 17.2	1 13.5	2.4	0.2
9	1 02.3	1 02.4	0 59.4	2.7	0.2	9	1 17.3	1 17.5	1 13.7	2.7	0.2
10	1 02.5	1 02.7	0 59.7	3.0	0.2	10	1 17.5	1 17.7	1 14.0	3.0	0.3
11	1 02.8	1 02.9	0 59.9	3.3	0.2	11	1 17.8	1 18.0	1 14.2	3.3	0.3
12	1 03.0	1 03.2	1 00.1	3.6	0.2	12	1 18.0	1 18.2	1 14.4	3.6	0.3
13	1 03.3	1 03.4	1 00.4	3.9	0.3	13	1 18.3	1 18.5	1 14.7	3.9	0.3
14	1 03.5	1 03.7	1 00.6	4.2	0.3	14	1 18.5	1 18.7	1 14.9	4.2	0.4
15	1 03.8	1 03.9	1 00.8	4.5	0.3	15	1 18.8	1 19.0	1 15.2	4.5	0.4
16	1 04.0	1 04.2	1 01.1	4.8	0.3	16	1 19.0	1 19.2	1 15.4	4.8	0.4
17	1 04.3	1 04.4	1 01.3	5.1	0.3	17	1 19.3	1 19.5	1 15.6	5.1	0.4
18	1 04.5	1 04.7	1 01.6	5.4	0.4	18	1 19.5	1 19.7	1 15.9	5.4	0.5
19	1 04.8	1 04.9	1 01.8	5.7	0.4	19	1 19.8	1 20.0	1 16.1	5.7	0.5
20	1 05.0	1 05.2	1 02.0	6.0	0.4	20	1 20.0	1 20.2	1 16.4	6.0	0.5
21	1 05.2	1 05.4	1 02.3	6.3	0.4	21	1 20.3	1 20.5	1 16.6	6.3	0.5
22	1 05.5	1 05.7	1 02.5	6.6	0.4	22	1 20.5	1 20.7	1 16.8	6.6	0.6
23	1 05.7	1 05.9	1 02.8	6.9	0.5	23	1 20.8	1 21.0	1 17.1	6.9	0.6
24	1 06.0	1 06.2	1 03.0	7.2	0.5	24	1 21.0	1 21.2	1 17.3	7.2	0.6
25	1 06.3	1 06.4	1 03.2	7.5	0.5	25	1 21.3	1 21.5	1 17.5	7.5	0.6
26	1 06.5	1 06.7	1 03.5	7.8	0.5	26	1 21.5	1 21.7	1 17.8	7.8	0.7
27	1 06.8	1 06.9	1 03.7	8.1	0.5	27	1 21.8	1 22.0	1 18.0	8.1	0.7
28	1 07.0	1 07.2	1 03.9	8.4	0.6	28	1 22.0	1 22.2	1 18.3	8.4	0.7
29	1 07.3	1 07.4	1 04.2	8.7	0.6	29	1 22.3	1 22.5	1 18.5	8.7	0.7
30	1 07.5	1 07.7	1 04.4	9.0	0.6	30	1 22.5	1 22.7	1 18.7	9.0	0.8
31	1 07.8	1 07.9	1 04.7	9.3	0.6	31	1 22.8	1 23.0	1 19.0	9.3	0.8
32	1 08.0	1 08.2	1 04.9	9.6	0.6	32	1 23.0	1 23.2	1 19.2	9.6	0.8
33	1 08.3	1 08.4	1 05.1	9.9	0.7	33	1 23.3	1 23.5	1 19.5	9.9	0.8
34	1 08.5	1 08.7	1 05.4	10.2	0.7	34	1 23.5	1 23.7	1 19.7	10.2	0.9
35	1 08.8	1 08.9	1 05.6	10.5	0.7	35	1 23.8	1 24.0	1 19.9	10.5	0.9
36	1 09.0	1 09.2	1 05.9	10.8	0.7	36	1 24.0	1 24.2	1 20.2	10.8	0.9
37	1 09.2	1 09.4	1 06.1	11.1	0.7	37	1 24.3	1 24.5	1 20.4	11.1	0.9
38	1 09.5	1 09.7	1 06.3	11.4	0.8	38	1 24.5	1 24.7	1 20.7	11.4	1.0
39	1 09.8	1 09.9	1 06.6	11.7	0.8	39	1 24.8	1 25.0	1 20.9	11.7	1.0
40	1 10.0	1 10.2	1 06.8	12.0	0.8	40	1 25.0	1 25.2	1 21.1	12.0	1.0
41	1 10.3	1 10.4	1 07.0	12.3	0.8	41	1 25.3	1 25.5	1 21.4	12.3	1.0
42	1 10.5	1 10.7	1 07.3	12.6	0.8	42	1 25.5	1 25.7	1 21.6	12.6	1.1
43	1 10.8	1 10.9	1 07.5	12.9	0.9	43	1 25.8	1 26.0	1 21.8	12.9	1.1
44	1 11.0	1 11.2	1 07.8	13.2	0.9	44	1 26.0	1 26.2	1 22.1	13.2	1.1
45	1 11.3	1 11.4	1 08.0	13.5	0.9	45	1 26.3	1 26.5	1 22.3	13.5	1.1
46	1 11.5	1 11.7	1 08.2	13.8	0.9	46	1 26.5	1 26.7	1 22.6	13.8	1.2
47	1 11.8	1 11.9	1 08.5	14.1	1.0	47	1 26.8	1 27.0	1 22.8	14.1	1.2
48	1 12.0	1 12.2	1 08.7	14.4	1.0	48	1 27.0	1 27.2	1 23.0	14.4	1.2
49	1 12.3	1 12.5	1 09.0	14.7	1.0	49	1 27.3	1 27.5	1 23.3	14.7	1.2
50	1 12.5	1 12.7	1 09.2	15.0	1.0	50	1 27.5	1 27.7	1 23.5	15.0	1.3
51	1 12.8	1 13.0	1 09.4	15.3	1.0	51	1 27.8	1 28.0	1 23.8	15.3	1.3
52	1 13.0	1 13.2	1 09.7	15.6	1.1	52	1 28.0	1 28.2	1 24.0	15.6	1.3
53	1 13.3	1 13.5	1 09.9	15.9	1.1	53	1 28.3	1 28.5	1 24.2	15.9	1.3
54	1 13.5	1 13.7	1 10.2	16.2	1.1	54	1 28.5	1 28.7	1 24.5	16.2	1.4
55	1 13.8	1 14.0	1 10.4	16.5	1.1	55	1 28.8	1 29.0	1 24.7	16.5	1.4
56	1 14.0	1 14.2	1 10.6	16.8	1.1	56	1 29.0	1 29.2	1 24.9	16.8	1.4
57	1 14.3	1 14.5	1 10.9	17.1	1.2	57	1 29.3	1 29.5	1 25.2	17.1	1.4
58	1 14.5	1 14.7	1 11.1	17.4	1.2	58	1 29.5	1 29.7	1 25.4	17.4	1.5
59	1 14.8	1 15.0	1 11.3	17.7	1.2	59	1 29.8	1 30.0	1 25.7	17.7	1.5

6 min

Schalttafel

7 min

6 min	Zuwachs Grt					7 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'				
0	1	30.0	1	30.3	1	25.9	0.0	0.0	0	1	45.0	1	45.3	1	40.2	0.0	0.0
1	1	30.3	1	30.5	1	26.1	0.3	0.0	1	1	45.3	1	45.5	1	40.5	0.3	0.0
2	1	30.5	1	30.8	1	26.4	0.6	0.1	2	1	45.5	1	45.8	1	40.7	0.6	0.1
3	1	30.8	1	31.0	1	26.6	0.9	0.1	3	1	45.8	1	46.0	1	40.9	0.9	0.1
4	1	31.0	1	31.3	1	26.9	1.2	0.1	4	1	46.0	1	46.3	1	41.2	1.2	0.1
5	1	31.3	1	31.5	1	27.1	1.5	0.2	5	1	46.3	1	46.5	1	41.4	1.5	0.2
6	1	31.5	1	31.8	1	27.3	1.8	0.2	6	1	46.5	1	46.8	1	41.6	1.8	0.2
7	1	31.8	1	32.0	1	27.6	2.1	0.2	7	1	46.8	1	47.0	1	41.9	2.1	0.2
8	1	32.0	1	32.3	1	27.8	2.4	0.2	8	1	47.0	1	47.3	1	42.1	2.4	0.3
9	1	32.3	1	32.5	1	28.0	2.7	0.3	9	1	47.3	1	47.5	1	42.4	2.7	0.3
10	1	32.5	1	32.8	1	28.3	3.0	0.3	10	1	47.5	1	47.8	1	42.6	3.0	0.4
11	1	32.8	1	33.0	1	28.5	3.3	0.3	11	1	47.8	1	48.0	1	42.8	3.3	0.4
12	1	33.0	1	33.3	1	28.8	3.6	0.4	12	1	48.0	1	48.3	1	43.1	3.6	0.4
13	1	33.3	1	33.5	1	29.0	3.9	0.4	13	1	48.3	1	48.6	1	43.3	3.9	0.5
14	1	33.5	1	33.8	1	29.2	4.2	0.4	14	1	48.5	1	48.8	1	43.6	4.2	0.5
15	1	33.8	1	34.0	1	29.5	4.5	0.5	15	1	48.8	1	49.1	1	43.8	4.5	0.5
16	1	34.0	1	34.3	1	29.7	4.8	0.5	16	1	49.0	1	49.3	1	44.0	4.8	0.6
17	1	34.3	1	34.5	1	30.0	5.1	0.5	17	1	49.3	1	49.6	1	44.3	5.1	0.6
18	1	34.5	1	34.8	1	30.2	5.4	0.5	18	1	49.5	1	49.8	1	44.5	5.4	0.6
19	1	34.8	1	35.0	1	30.4	5.7	0.6	19	1	49.8	1	50.1	1	44.8	5.7	0.7
20	1	35.0	1	35.3	1	30.7	6.0	0.6	20	1	50.0	1	50.3	1	45.0	6.0	0.7
21	1	35.3	1	35.5	1	30.9	6.3	0.6	21	1	50.3	1	50.6	1	45.2	6.3	0.7
22	1	35.5	1	35.8	1	31.1	6.6	0.7	22	1	50.5	1	50.8	1	45.5	6.6	0.8
23	1	35.8	1	36.0	1	31.4	6.9	0.7	23	1	50.8	1	51.1	1	45.7	6.9	0.8
24	1	36.0	1	36.3	1	31.6	7.2	0.7	24	1	51.0	1	51.3	1	45.9	7.2	0.8
25	1	36.3	1	36.5	1	31.9	7.5	0.8	25	1	51.3	1	51.6	1	46.2	7.5	0.9
26	1	36.5	1	36.8	1	32.1	7.8	0.8	26	1	51.5	1	51.8	1	46.4	7.8	0.9
27	1	36.8	1	37.0	1	32.3	8.1	0.8	27	1	51.8	1	52.1	1	46.7	8.1	1.0
28	1	37.0	1	37.3	1	32.6	8.4	0.8	28	1	52.0	1	52.3	1	46.9	8.4	1.0
29	1	37.3	1	37.5	1	32.8	8.7	0.9	29	1	52.3	1	52.6	1	47.1	8.7	1.0
30	1	37.5	1	37.8	1	33.1	9.0	0.9	30	1	52.5	1	52.8	1	47.4	9.0	1.1
31	1	37.8	1	38.0	1	33.3	9.3	0.9	31	1	52.8	1	53.1	1	47.6	9.3	1.1
32	1	38.0	1	38.3	1	33.5	9.6	1.0	32	1	53.0	1	53.3	1	47.9	9.6	1.1
33	1	38.3	1	38.5	1	33.8	9.9	1.0	33	1	53.3	1	53.6	1	48.1	9.9	1.2
34	1	38.5	1	38.8	1	34.0	10.2	1.0	34	1	53.5	1	53.8	1	48.3	10.2	1.2
35	1	38.8	1	39.0	1	34.3	10.5	1.1	35	1	53.8	1	54.1	1	48.6	10.5	1.2
36	1	39.0	1	39.3	1	34.5	10.8	1.1	36	1	54.0	1	54.3	1	48.8	10.8	1.3
37	1	39.3	1	39.5	1	34.7	11.1	1.1	37	1	54.3	1	54.6	1	49.0	11.1	1.3
38	1	39.5	1	39.8	1	35.0	11.4	1.2	38	1	54.5	1	54.8	1	49.3	11.4	1.3
39	1	39.8	1	40.0	1	35.2	11.7	1.2	39	1	54.8	1	55.1	1	49.5	11.7	1.4
40	1	40.0	1	40.3	1	35.4	12.0	1.2	40	1	55.0	1	55.3	1	49.8	12.0	1.4
41	1	40.3	1	40.5	1	35.7	12.3	1.2	41	1	55.3	1	55.6	1	50.0	12.3	1.5
42	1	40.5	1	40.8	1	35.9	12.6	1.3	42	1	55.5	1	55.8	1	50.2	12.6	1.5
43	1	40.8	1	41.0	1	36.2	12.9	1.3	43	1	55.8	1	56.1	1	50.5	12.9	1.5
44	1	41.0	1	41.3	1	36.4	13.2	1.3	44	1	56.0	1	56.3	1	50.7	13.2	1.6
45	1	41.3	1	41.5	1	36.6	13.5	1.4	45	1	56.3	1	56.6	1	51.0	13.5	1.6
46	1	41.5	1	41.8	1	36.9	13.8	1.4	46	1	56.5	1	56.8	1	51.2	13.8	1.6
47	1	41.8	1	42.0	1	37.1	14.1	1.4	47	1	56.8	1	57.1	1	51.4	14.1	1.7
48	1	42.0	1	42.3	1	37.4	14.4	1.5	48	1	57.0	1	57.3	1	51.7	14.4	1.7
49	1	42.3	1	42.5	1	37.6	14.7	1.5	49	1	57.3	1	57.6	1	51.9	14.7	1.7
50	1	42.5	1	42.8	1	37.8	15.0	1.5	50	1	57.5	1	57.8	1	52.1	15.0	1.8
51	1	42.8	1	43.0	1	38.1	15.3	1.5	51	1	57.8	1	58.1	1	52.4	15.3	1.8
52	1	43.0	1	43.3	1	38.3	15.6	1.6	52	1	58.0	1	58.3	1	52.6	15.6	1.8
53	1	43.3	1	43.5	1	38.5	15.9	1.6	53	1	58.3	1	58.6	1	52.9	15.9	1.9
54	1	43.5	1	43.8	1	38.8	16.2	1.6	54	1	58.5	1	58.8	1	53.1	16.2	1.9
55	1	43.8	1	44.0	1	39.0	16.5	1.7	55	1	58.8	1	59.1	1	53.3	16.5	1.9
56	1	44.0	1	44.3	1	39.3	16.8	1.7	56	1	59.0	1	59.3	1	53.6	16.8	2.0
57	1	44.3	1	44.5	1	39.5	17.1	1.7	57	1	59.3	1	59.6	1	53.8	17.1	2.0
58	1	44.5	1	44.8	1	39.7	17.4	1.8	58	1	59.5	1	59.8	1	54.1	17.4	2.1
59	1	44.8	1	45.0	1	40.0	17.7	1.8	59	1	59.8	2	00.1	1	54.3	17.7	2.1

8 min

Schalttafel

9 min

8 min	Zuwachs Grt					9 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'				
0	2	00.0	2	00.3	1	54.5	0.0	0.0	0	2	15.0	2	15.4	2	08.9	0.0	0.0
1	2	00.2	2	00.6	1	54.8	0.3	0.0	1	2	15.3	2	15.6	2	09.1	0.3	0.0
2	2	00.5	2	00.8	1	55.0	0.6	0.1	2	2	15.5	2	15.9	2	09.3	0.6	0.1
3	2	00.7	2	01.1	1	55.2	0.9	0.1	3	2	15.8	2	16.1	2	09.6	0.9	0.1
4	2	01.0	2	01.3	1	55.5	1.2	0.2	4	2	16.0	2	16.4	2	09.8	1.2	0.2
5	2	01.2	2	01.6	1	55.7	1.5	0.2	5	2	16.3	2	16.6	2	10.0	1.5	0.2
6	2	01.5	2	01.8	1	56.0	1.8	0.2	6	2	16.5	2	16.9	2	10.3	1.8	0.3
7	2	01.8	2	02.1	1	56.2	2.1	0.3	7	2	16.8	2	17.1	2	10.5	2.1	0.3
8	2	02.0	2	02.3	1	56.4	2.4	0.3	8	2	17.0	2	17.4	2	10.8	2.4	0.4
9	2	02.3	2	02.6	1	56.7	2.7	0.4	9	2	17.3	2	17.6	2	11.0	2.7	0.4
10	2	02.5	2	02.8	1	56.9	3.0	0.4	10	2	17.5	2	17.9	2	11.2	3.0	0.5
11	2	02.8	2	03.1	1	57.2	3.3	0.4	11	2	17.8	2	18.1	2	11.5	3.3	0.5
12	2	03.0	2	03.3	1	57.4	3.6	0.5	12	2	18.0	2	18.4	2	11.7	3.6	0.5
13	2	03.3	2	03.6	1	57.6	3.9	0.5	13	2	18.3	2	18.6	2	12.0	3.9	0.6
14	2	03.5	2	03.8	1	57.9	4.2	0.6	14	2	18.5	2	18.9	2	12.2	4.2	0.6
15	2	03.8	2	04.1	1	58.1	4.5	0.6	15	2	18.8	2	19.1	2	12.4	4.5	0.7
16	2	04.0	2	04.3	1	58.4	4.8	0.6	16	2	19.0	2	19.4	2	12.7	4.8	0.7
17	2	04.3	2	04.6	1	58.6	5.1	0.7	17	2	19.3	2	19.6	2	12.9	5.1	0.8
18	2	04.5	2	04.8	1	58.8	5.4	0.7	18	2	19.5	2	19.9	2	13.1	5.4	0.8
19	2	04.8	2	05.1	1	59.1	5.7	0.8	19	2	19.8	2	20.1	2	13.4	5.7	0.9
20	2	05.0	2	05.3	1	59.3	6.0	0.8	20	2	20.0	2	20.4	2	13.6	6.0	0.9
21	2	05.2	2	05.6	1	59.5	6.3	0.8	21	2	20.3	2	20.6	2	13.9	6.3	1.0
22	2	05.5	2	05.8	1	59.8	6.6	0.9	22	2	20.5	2	20.9	2	14.1	6.6	1.0
23	2	05.7	2	06.1	2	00.0	6.9	0.9	23	2	20.8	2	21.1	2	14.3	6.9	1.0
24	2	06.0	2	06.3	2	00.3	7.2	1.0	24	2	21.0	2	21.4	2	14.6	7.2	1.1
25	2	06.2	2	06.6	2	00.5	7.5	1.0	25	2	21.3	2	21.6	2	14.8	7.5	1.1
26	2	06.5	2	06.9	2	00.7	7.8	1.1	26	2	21.5	2	21.9	2	15.1	7.8	1.2
27	2	06.8	2	07.1	2	01.0	8.1	1.1	27	2	21.8	2	22.1	2	15.3	8.1	1.2
28	2	07.0	2	07.4	2	01.2	8.4	1.1	28	2	22.0	2	22.4	2	15.5	8.4	1.3
29	2	07.3	2	07.6	2	01.5	8.7	1.2	29	2	22.3	2	22.6	2	15.8	8.7	1.3
30	2	07.5	2	07.9	2	01.7	9.0	1.2	30	2	22.5	2	22.9	2	16.0	9.0	1.4
31	2	07.8	2	08.1	2	01.9	9.3	1.3	31	2	22.8	2	23.1	2	16.2	9.3	1.4
32	2	08.0	2	08.4	2	02.2	9.6	1.3	32	2	23.0	2	23.4	2	16.5	9.6	1.5
33	2	08.2	2	08.6	2	02.4	9.9	1.3	33	2	23.3	2	23.6	2	16.7	9.9	1.5
34	2	08.5	2	08.9	2	02.6	10.2	1.4	34	2	23.5	2	23.9	2	17.0	10.2	1.5
35	2	08.7	2	09.1	2	02.9	10.5	1.4	35	2	23.8	2	24.1	2	17.2	10.5	1.6
36	2	09.0	2	09.4	2	03.1	10.8	1.5	36	2	24.0	2	24.4	2	17.4	10.8	1.6
37	2	09.3	2	09.6	2	03.4	11.1	1.5	37	2	24.3	2	24.7	2	17.7	11.1	1.7
38	2	09.5	2	09.9	2	03.6	11.4	1.5	38	2	24.5	2	24.9	2	17.9	11.4	1.7
39	2	09.8	2	10.1	2	03.8	11.7	1.6	39	2	24.8	2	25.2	2	18.2	11.7	1.8
40	2	10.0	2	10.4	2	04.1	12.0	1.6	40	2	25.0	2	25.4	2	18.4	12.0	1.8
41	2	10.3	2	10.6	2	04.3	12.3	1.7	41	2	25.3	2	25.7	2	18.6	12.3	1.9
42	2	10.5	2	10.9	2	04.6	12.6	1.7	42	2	25.5	2	25.9	2	18.9	12.6	1.9
43	2	10.8	2	11.1	2	04.8	12.9	1.7	43	2	25.8	2	26.2	2	19.1	12.9	2.0
44	2	11.0	2	11.4	2	05.0	13.2	1.8	44	2	26.0	2	26.4	2	19.3	13.2	2.0
45	2	11.3	2	11.6	2	05.3	13.5	1.8	45	2	26.3	2	26.7	2	19.6	13.5	2.0
46	2	11.5	2	11.9	2	05.5	13.8	1.9	46	2	26.5	2	26.9	2	19.8	13.8	2.1
47	2	11.8	2	12.1	2	05.7	14.1	1.9	47	2	26.8	2	27.2	2	20.1	14.1	2.1
48	2	12.0	2	12.4	2	06.0	14.4	1.9	48	2	27.0	2	27.4	2	20.3	14.4	2.2
49	2	12.3	2	12.6	2	06.2	14.7	2.0	49	2	27.3	2	27.7	2	20.5	14.7	2.2
50	2	12.5	2	12.9	2	06.5	15.0	2.0	50	2	27.5	2	27.9	2	20.8	15.0	2.3
51	2	12.8	2	13.1	2	06.7	15.3	2.1	51	2	27.8	2	28.2	2	21.0	15.3	2.3
52	2	13.0	2	13.4	2	06.9	15.6	2.1	52	2	28.0	2	28.4	2	21.3	15.6	2.4
53	2	13.3	2	13.6	2	07.2	15.9	2.1	53	2	28.3	2	28.7	2	21.5	15.9	2.4
54	2	13.5	2	13.9	2	07.4	16.2	2.2	54	2	28.5	2	28.9	2	21.7	16.2	2.5
55	2	13.8	2	14.1	2	07.7	16.5	2.2	55	2	28.8	2	29.2	2	22.0	16.5	2.5
56	2	14.0	2	14.4	2	07.9	16.8	2.3	56	2	29.0	2	29.4	2	22.2	16.8	2.5
57	2	14.3	2	14.6	2	08.1	17.1	2.3	57	2	29.3	2	29.7	2	22.5	17.1	2.6
58	2	14.5	2	14.9	2	08.4	17.4	2.3	58	2	29.5	2	29.9	2	22.7	17.4	2.6
59	2	14.8	2	15.1	2	08.6	17.7	2.4	59	2	29.8	2	30.2	2	22.9	17.7	2.7

10 min

Schalttafel

11 min

10 min	Zuwachs Grt					11 min	Zuwachs Grt														
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb										
s	o	'	o	'	o	'	'	'	'	'	'	s	o	'	o	'	o	'	'	'	'
0	2	30.0	2	30.4	2	23.2	0.0	0.0	0	2	45.0	2	45.5	2	37.5	0.0	0.0				
1	2	30.3	2	30.7	2	23.4	0.3	0.1	1	2	45.3	2	45.7	2	37.7	0.3	0.1				
2	2	30.5	2	30.9	2	23.6	0.6	0.1	2	2	45.5	2	46.0	2	38.0	0.6	0.1				
3	2	30.8	2	31.2	2	23.9	0.9	0.2	3	2	45.8	2	46.2	2	38.2	0.9	0.2				
4	2	31.0	2	31.4	2	24.1	1.2	0.2	4	2	46.0	2	46.5	2	38.4	1.2	0.2				
5	2	31.3	2	31.7	2	24.4	1.5	0.3	5	2	46.3	2	46.7	2	38.7	1.5	0.3				
6	2	31.5	2	31.9	2	24.6	1.8	0.3	6	2	46.5	2	47.0	2	38.9	1.8	0.3				
7	2	31.8	2	32.2	2	24.8	2.1	0.4	7	2	46.8	2	47.2	2	39.2	2.1	0.4				
8	2	32.0	2	32.4	2	25.1	2.4	0.4	8	2	47.0	2	47.5	2	39.4	2.4	0.4				
9	2	32.3	2	32.7	2	25.3	2.7	0.5	9	2	47.3	2	47.7	2	39.6	2.7	0.5				
10	2	32.5	2	32.9	2	25.6	3.0	0.5	10	2	47.5	2	48.0	2	39.9	3.0	0.6				
11	2	32.8	2	33.2	2	25.8	3.3	0.6	11	2	47.8	2	48.2	2	40.1	3.3	0.6				
12	2	33.0	2	33.4	2	26.0	3.6	0.6	12	2	48.0	2	48.5	2	40.3	3.6	0.7				
13	2	33.3	2	33.7	2	26.3	3.9	0.7	13	2	48.3	2	48.7	2	40.6	3.9	0.7				
14	2	33.5	2	33.9	2	26.5	4.2	0.7	14	2	48.5	2	49.0	2	40.8	4.2	0.8				
15	2	33.8	2	34.2	2	26.7	4.5	0.8	15	2	48.8	2	49.2	2	41.1	4.5	0.8				
16	2	34.0	2	34.4	2	27.0	4.8	0.8	16	2	49.0	2	49.5	2	41.3	4.8	0.9				
17	2	34.3	2	34.7	2	27.2	5.1	0.9	17	2	49.3	2	49.7	2	41.5	5.1	0.9				
18	2	34.5	2	34.9	2	27.5	5.4	0.9	18	2	49.5	2	50.0	2	41.8	5.4	1.0				
19	2	34.8	2	35.2	2	27.7	5.7	1.0	19	2	49.8	2	50.2	2	42.0	5.7	1.1				
20	2	35.0	2	35.4	2	27.9	6.0	1.0	20	2	50.0	2	50.5	2	42.3	6.0	1.1				
21	2	35.3	2	35.7	2	28.2	6.3	1.1	21	2	50.3	2	50.7	2	42.5	6.3	1.2				
22	2	35.5	2	35.9	2	28.4	6.6	1.1	22	2	50.5	2	51.0	2	42.7	6.6	1.2				
23	2	35.8	2	36.2	2	28.7	6.9	1.2	23	2	50.8	2	51.2	2	43.0	6.9	1.3				
24	2	36.0	2	36.4	2	28.9	7.2	1.2	24	2	51.0	2	51.5	2	43.2	7.2	1.3				
25	2	36.3	2	36.7	2	29.1	7.5	1.3	25	2	51.3	2	51.7	2	43.4	7.5	1.4				
26	2	36.5	2	36.9	2	29.4	7.8	1.3	26	2	51.5	2	52.0	2	43.7	7.8	1.4				
27	2	36.8	2	37.2	2	29.6	8.1	1.4	27	2	51.8	2	52.2	2	43.9	8.1	1.5				
28	2	37.0	2	37.4	2	29.8	8.4	1.4	28	2	52.0	2	52.5	2	44.2	8.4	1.6				
29	2	37.3	2	37.7	2	30.1	8.7	1.5	29	2	52.3	2	52.7	2	44.4	8.7	1.6				
30	2	37.5	2	37.9	2	30.3	9.0	1.5	30	2	52.5	2	53.0	2	44.6	9.0	1.7				
31	2	37.8	2	38.2	2	30.6	9.3	1.6	31	2	52.8	2	53.2	2	44.9	9.3	1.7				
32	2	38.0	2	38.4	2	30.8	9.6	1.6	32	2	53.0	2	53.5	2	45.1	9.6	1.8				
33	2	38.3	2	38.7	2	31.0	9.9	1.7	33	2	53.3	2	53.7	2	45.4	9.9	1.8				
34	2	38.5	2	38.9	2	31.3	10.2	1.7	34	2	53.5	2	54.0	2	45.6	10.2	1.9				
35	2	38.8	2	39.2	2	31.5	10.5	1.8	35	2	53.8	2	54.2	2	45.8	10.5	1.9				
36	2	39.0	2	39.4	2	31.8	10.8	1.8	36	2	54.0	2	54.5	2	46.1	10.8	2.0				
37	2	39.3	2	39.7	2	32.0	11.1	1.9	37	2	54.3	2	54.7	2	46.3	11.1	2.1				
38	2	39.5	2	39.9	2	32.2	11.4	1.9	38	2	54.5	2	55.0	2	46.6	11.4	2.1				
39	2	39.8	2	40.2	2	32.5	11.7	2.0	39	2	54.8	2	55.2	2	46.8	11.7	2.2				
40	2	40.0	2	40.4	2	32.7	12.0	2.0	40	2	55.0	2	55.5	2	47.0	12.0	2.2				
41	2	40.3	2	40.7	2	32.9	12.3	2.1	41	2	55.3	2	55.7	2	47.3	12.3	2.3				
42	2	40.5	2	40.9	2	33.2	12.6	2.1	42	2	55.5	2	56.0	2	47.5	12.6	2.3				
43	2	40.8	2	41.2	2	33.4	12.9	2.2	43	2	55.8	2	56.2	2	47.7	12.9	2.4				
44	2	41.0	2	41.4	2	33.7	13.2	2.2	44	2	56.0	2	56.5	2	48.0	13.2	2.4				
45	2	41.3	2	41.7	2	33.9	13.5	2.3	45	2	56.3	2	56.7	2	48.2	13.5	2.5				
46	2	41.5	2	41.9	2	34.1	13.8	2.3	46	2	56.5	2	57.0	2	48.5	13.8	2.6				
47	2	41.8	2	42.2	2	34.4	14.1	2.4	47	2	56.8	2	57.2	2	48.7	14.1	2.6				
48	2	42.0	2	42.5	2	34.6	14.4	2.4	48	2	57.0	2	57.5	2	48.9	14.4	2.7				
49	2	42.3	2	42.7	2	34.9	14.7	2.5	49	2	57.3	2	57.7	2	49.2	14.7	2.7				
50	2	42.5	2	43.0	2	35.1	15.0	2.5	50	2	57.5	2	58.0	2	49.4	15.0	2.8				
51	2	42.8	2	43.2	2	35.3	15.3	2.6	51	2	57.8	2	58.2	2	49.7	15.3	2.8				
52	2	43.0	2	43.5	2	35.6	15.6	2.6	52	2	58.0	2	58.5	2	49.9	15.6	2.9				
53	2	43.3	2	43.7	2	35.8	15.9	2.7	53	2	58.3	2	58.7	2	50.1	15.9	2.9				
54	2	43.5	2	44.0	2	36.1	16.2	2.7	54	2	58.5	2	59.0	2	50.4	16.2	3.0				
55	2	43.8	2	44.2	2	36.3	16.5	2.8	55	2	58.8	2	59.2	2	50.6	16.5	3.1				
56	2	44.0	2	44.5	2	36.5	16.8	2.8	56	2	59.0	2	59.5	2	50.8	16.8	3.1				
57	2	44.3	2	44.7	2	36.8	17.1	2.9	57	2	59.3	2	59.7	2	51.1	17.1	3.2				
58	2	44.5	2	45.0	2	37.0	17.4	2.9	58	2	59.5	2	60.0	2	51.3	17.4	3.2				
59	2	44.8	2	45.2	2	37.2	17.7	3.0	59	2	59.8	3	00.2	2	51.6	17.7	3.3				

12 min

Schalttafel

13 min

12 min	Zuwachs Grt					13 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'				
0	3	00.0	3	00.5	2	51.8	0.0	0.0	0	3	15.0	3	15.5	3	06.1	0.0	0.0
1	3	00.2	3	00.8	2	52.0	0.3	0.1	1	3	15.3	3	15.8	3	06.4	0.3	0.1
2	3	00.5	3	01.0	2	52.3	0.6	0.1	2	3	15.5	3	16.0	3	06.6	0.6	0.1
3	3	00.8	3	01.3	2	52.5	0.9	0.2	3	3	15.8	3	16.3	3	06.8	0.9	0.2
4	3	01.0	3	01.5	2	52.8	1.2	0.2	4	3	16.0	3	16.5	3	07.1	1.2	0.3
5	3	01.3	3	01.8	2	53.0	1.5	0.3	5	3	16.3	3	16.8	3	07.3	1.5	0.3
6	3	01.5	3	02.0	2	53.2	1.8	0.4	6	3	16.5	3	17.0	3	07.5	1.8	0.4
7	3	01.8	3	02.3	2	53.5	2.1	0.4	7	3	16.8	3	17.3	3	07.8	2.1	0.5
8	3	02.0	3	02.5	2	53.7	2.4	0.5	8	3	17.0	3	17.5	3	08.0	2.4	0.5
9	3	02.3	3	02.8	2	53.9	2.7	0.5	9	3	17.3	3	17.8	3	08.3	2.7	0.6
10	3	02.5	3	03.0	2	54.2	3.0	0.6	10	3	17.5	3	18.0	3	08.5	3.0	0.7
11	3	02.8	3	03.3	2	54.4	3.3	0.7	11	3	17.8	3	18.3	3	08.7	3.3	0.7
12	3	03.0	3	03.5	2	54.7	3.6	0.7	12	3	18.0	3	18.6	3	09.0	3.6	0.8
13	3	03.3	3	03.8	2	54.9	3.9	0.8	13	3	18.3	3	18.8	3	09.2	3.9	0.9
14	3	03.5	3	04.0	2	55.1	4.2	0.8	14	3	18.5	3	19.1	3	09.5	4.2	0.9
15	3	03.8	3	04.3	2	55.4	4.5	0.9	15	3	18.8	3	19.3	3	09.7	4.5	1.0
16	3	04.0	3	04.5	2	55.6	4.8	1.0	16	3	19.0	3	19.6	3	09.9	4.8	1.1
17	3	04.3	3	04.8	2	55.9	5.1	1.0	17	3	19.3	3	19.8	3	10.2	5.1	1.1
18	3	04.5	3	05.0	2	56.1	5.4	1.1	18	3	19.5	3	20.1	3	10.4	5.4	1.2
19	3	04.8	3	05.3	2	56.3	5.7	1.2	19	3	19.8	3	20.3	3	10.7	5.7	1.2
20	3	05.0	3	05.5	2	56.6	6.0	1.2	20	3	20.0	3	20.6	3	10.9	6.0	1.3
21	3	05.2	3	05.8	2	56.8	6.3	1.3	21	3	20.3	3	20.8	3	11.1	6.3	1.4
22	3	05.5	3	06.0	2	57.0	6.6	1.3	22	3	20.5	3	21.1	3	11.4	6.6	1.4
23	3	05.8	3	06.3	2	57.3	6.9	1.4	23	3	20.8	3	21.3	3	11.6	6.9	1.5
24	3	06.0	3	06.5	2	57.5	7.2	1.5	24	3	21.0	3	21.6	3	11.8	7.2	1.6
25	3	06.3	3	06.8	2	57.8	7.5	1.5	25	3	21.3	3	21.8	3	12.1	7.5	1.6
26	3	06.5	3	07.0	2	58.0	7.8	1.6	26	3	21.5	3	22.1	3	12.3	7.8	1.7
27	3	06.8	3	07.3	2	58.2	8.1	1.6	27	3	21.8	3	22.3	3	12.6	8.1	1.8
28	3	07.0	3	07.5	2	58.5	8.4	1.7	28	3	22.0	3	22.6	3	12.8	8.4	1.8
29	3	07.3	3	07.8	2	58.7	8.7	1.8	29	3	22.3	3	22.8	3	13.0	8.7	1.9
30	3	07.5	3	08.0	2	59.0	9.0	1.8	30	3	22.5	3	23.1	3	13.3	9.0	2.0
31	3	07.8	3	08.3	2	59.2	9.3	1.9	31	3	22.8	3	23.3	3	13.5	9.3	2.0
32	3	08.0	3	08.5	2	59.4	9.6	1.9	32	3	23.0	3	23.6	3	13.8	9.6	2.1
33	3	08.3	3	08.8	2	59.7	9.9	2.0	33	3	23.3	3	23.8	3	14.0	9.9	2.2
34	3	08.5	3	09.0	2	59.9	10.2	2.1	34	3	23.5	3	24.1	3	14.2	10.2	2.2
35	3	08.8	3	09.3	3	00.2	10.5	2.1	35	3	23.8	3	24.3	3	14.5	10.5	2.3
36	3	09.0	3	09.5	3	00.4	10.8	2.2	36	3	24.0	3	24.6	3	14.7	10.8	2.4
37	3	09.3	3	09.8	3	00.6	11.1	2.2	37	3	24.3	3	24.8	3	14.9	11.1	2.4
38	3	09.5	3	10.0	3	00.9	11.4	2.3	38	3	24.5	3	25.1	3	15.2	11.4	2.5
39	3	09.8	3	10.3	3	01.1	11.7	2.4	39	3	24.8	3	25.3	3	15.4	11.7	2.6
40	3	10.0	3	10.5	3	01.3	12.0	2.4	40	3	25.0	3	25.6	3	15.7	12.0	2.6
41	3	10.3	3	10.8	3	01.6	12.3	2.5	41	3	25.3	3	25.8	3	15.9	12.3	2.7
42	3	10.5	3	11.0	3	01.8	12.6	2.5	42	3	25.5	3	26.1	3	16.1	12.6	2.8
43	3	10.8	3	11.3	3	02.1	12.9	2.6	43	3	25.8	3	26.3	3	16.4	12.9	2.8
44	3	11.0	3	11.5	3	02.3	13.2	2.7	44	3	26.0	3	26.6	3	16.6	13.2	2.9
45	3	11.3	3	11.8	3	02.5	13.5	2.7	45	3	26.3	3	26.8	3	16.9	13.5	3.0
46	3	11.5	3	12.0	3	02.8	13.8	2.8	46	3	26.5	3	27.1	3	17.1	13.8	3.0
47	3	11.8	3	12.3	3	03.0	14.1	2.9	47	3	26.8	3	27.3	3	17.3	14.1	3.1
48	3	12.0	3	12.5	3	03.3	14.4	2.9	48	3	27.0	3	27.6	3	17.6	14.4	3.2
49	3	12.3	3	12.8	3	03.5	14.7	3.0	49	3	27.3	3	27.8	3	17.8	14.7	3.2
50	3	12.5	3	13.0	3	03.7	15.0	3.0	50	3	27.5	3	28.1	3	18.0	15.0	3.3
51	3	12.8	3	13.3	3	04.0	15.3	3.1	51	3	27.8	3	28.3	3	18.3	15.3	3.4
52	3	13.0	3	13.5	3	04.2	15.6	3.2	52	3	28.0	3	28.6	3	18.5	15.6	3.4
53	3	13.3	3	13.8	3	04.4	15.9	3.2	53	3	28.3	3	28.8	3	18.8	15.9	3.5
54	3	13.5	3	14.0	3	04.7	16.2	3.3	54	3	28.5	3	29.1	3	19.0	16.2	3.5
55	3	13.8	3	14.3	3	04.9	16.5	3.3	55	3	28.8	3	29.3	3	19.2	16.5	3.6
56	3	14.0	3	14.5	3	05.2	16.8	3.4	56	3	29.0	3	29.6	3	19.5	16.8	3.7
57	3	14.3	3	14.8	3	05.4	17.1	3.5	57	3	29.3	3	29.8	3	19.7	17.1	3.7
58	3	14.5	3	15.0	3	05.6	17.4	3.5	58	3	29.5	3	30.1	3	20.0	17.4	3.8
59	3	14.8	3	15.3	3	05.9	17.7	3.6	59	3	29.8	3	30.3	3	20.2	17.7	3.9

16 min

Schalttafel

17 min

16 min	Zuwachs Grt					17 min	Zuwachs Grt				
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb
s	° ' "	° ' "	° ' "	' "	' "	s	° ' "	° ' "	° ' "	' "	' "
0	4 00.0	4 00.7	3 49.1	0.0	0.0	0	4 15.0	4 15.7	4 03.4	0.0	0.0
1	4 00.2	4 00.9	3 49.3	0.3	0.1	1	4 15.3	4 16.0	4 03.6	0.3	0.1
2	4 00.5	4 01.2	3 49.5	0.6	0.2	2	4 15.5	4 16.2	4 03.9	0.6	0.2
3	4 00.8	4 01.4	3 49.8	0.9	0.2	3	4 15.8	4 16.5	4 04.1	0.9	0.3
4	4 01.0	4 01.7	3 50.0	1.2	0.3	4	4 16.0	4 16.7	4 04.3	1.2	0.3
5	4 01.2	4 01.9	3 50.3	1.5	0.4	5	4 16.3	4 17.0	4 04.6	1.5	0.4
6	4 01.5	4 02.2	3 50.5	1.8	0.5	6	4 16.5	4 17.2	4 04.8	1.8	0.5
7	4 01.8	4 02.4	3 50.7	2.1	0.6	7	4 16.8	4 17.5	4 05.1	2.1	0.6
8	4 02.0	4 02.7	3 51.0	2.4	0.6	8	4 17.0	4 17.7	4 05.3	2.4	0.7
9	4 02.2	4 02.9	3 51.2	2.7	0.7	9	4 17.3	4 18.0	4 05.5	2.7	0.8
10	4 02.5	4 03.2	3 51.5	3.0	0.8	10	4 17.5	4 18.2	4 05.8	3.0	0.9
11	4 02.7	4 03.4	3 51.7	3.3	0.9	11	4 17.8	4 18.5	4 06.0	3.3	0.9
12	4 03.0	4 03.7	3 51.9	3.6	1.0	12	4 18.0	4 18.7	4 06.2	3.6	1.0
13	4 03.3	4 03.9	3 52.2	3.9	1.1	13	4 18.3	4 19.0	4 06.5	3.9	1.1
14	4 03.5	4 04.2	3 52.4	4.2	1.1	14	4 18.5	4 19.2	4 06.7	4.2	1.2
15	4 03.8	4 04.4	3 52.6	4.5	1.2	15	4 18.8	4 19.5	4 07.0	4.5	1.3
16	4 04.0	4 04.7	3 52.9	4.8	1.3	16	4 19.0	4 19.7	4 07.2	4.8	1.4
17	4 04.3	4 04.9	3 53.1	5.1	1.4	17	4 19.3	4 20.0	4 07.4	5.1	1.5
18	4 04.5	4 05.2	3 53.4	5.4	1.5	18	4 19.5	4 20.2	4 07.7	5.4	1.5
19	4 04.8	4 05.4	3 53.6	5.7	1.5	19	4 19.8	4 20.5	4 07.9	5.7	1.6
20	4 05.0	4 05.7	3 53.8	6.0	1.6	20	4 20.0	4 20.7	4 08.2	6.0	1.7
21	4 05.3	4 05.9	3 54.1	6.3	1.7	21	4 20.3	4 21.0	4 08.4	6.3	1.8
22	4 05.5	4 06.2	3 54.3	6.6	1.8	22	4 20.5	4 21.2	4 08.6	6.6	1.9
23	4 05.7	4 06.4	3 54.6	6.9	1.9	23	4 20.8	4 21.5	4 08.9	6.9	2.0
24	4 06.0	4 06.7	3 54.8	7.2	1.9	24	4 21.0	4 21.7	4 09.1	7.2	2.1
25	4 06.2	4 06.9	3 55.0	7.5	2.0	25	4 21.3	4 22.0	4 09.3	7.5	2.1
26	4 06.5	4 07.2	3 55.3	7.8	2.1	26	4 21.5	4 22.2	4 09.6	7.8	2.2
27	4 06.7	4 07.4	3 55.5	8.1	2.2	27	4 21.8	4 22.5	4 09.8	8.1	2.3
28	4 07.0	4 07.7	3 55.7	8.4	2.3	28	4 22.0	4 22.7	4 10.1	8.4	2.4
29	4 07.2	4 07.9	3 56.0	8.7	2.3	29	4 22.3	4 23.0	4 10.3	8.7	2.5
30	4 07.5	4 08.2	3 56.2	9.0	2.4	30	4 22.5	4 23.2	4 10.5	9.0	2.6
31	4 07.7	4 08.4	3 56.5	9.3	2.5	31	4 22.8	4 23.5	4 10.8	9.3	2.7
32	4 08.0	4 08.7	3 56.7	9.6	2.6	32	4 23.0	4 23.7	4 11.0	9.6	2.8
33	4 08.3	4 08.9	3 56.9	9.9	2.7	33	4 23.3	4 24.0	4 11.3	9.9	2.8
34	4 08.5	4 09.2	3 57.2	10.2	2.8	34	4 23.5	4 24.2	4 11.5	10.2	2.9
35	4 08.8	4 09.4	3 57.4	10.5	2.8	35	4 23.8	4 24.5	4 11.7	10.5	3.0
36	4 09.0	4 09.7	3 57.7	10.8	2.9	36	4 24.0	4 24.7	4 12.0	10.8	3.1
37	4 09.3	4 09.9	3 57.9	11.1	3.0	37	4 24.3	4 25.0	4 12.2	11.1	3.2
38	4 09.5	4 10.2	3 58.1	11.4	3.1	38	4 24.5	4 25.2	4 12.5	11.4	3.3
39	4 09.7	4 10.4	3 58.4	11.7	3.2	39	4 24.8	4 25.5	4 12.7	11.7	3.4
40	4 10.0	4 10.7	3 58.6	12.0	3.2	40	4 25.0	4 25.7	4 12.9	12.0	3.4
41	4 10.3	4 10.9	3 58.8	12.3	3.3	41	4 25.3	4 26.0	4 13.2	12.3	3.5
42	4 10.5	4 11.2	3 59.1	12.6	3.4	42	4 25.5	4 26.2	4 13.4	12.6	3.6
43	4 10.8	4 11.4	3 59.3	12.9	3.5	43	4 25.8	4 26.5	4 13.6	12.9	3.7
44	4 11.0	4 11.7	3 59.6	13.2	3.6	44	4 26.0	4 26.7	4 13.9	13.2	3.8
45	4 11.3	4 11.9	3 59.8	13.5	3.6	45	4 26.3	4 27.0	4 14.1	13.5	3.9
46	4 11.5	4 12.2	4 00.0	13.8	3.7	46	4 26.5	4 27.2	4 14.4	13.8	4.0
47	4 11.8	4 12.4	4 00.3	14.1	3.8	47	4 26.8	4 27.5	4 14.6	14.1	4.0
48	4 12.0	4 12.7	4 00.5	14.4	3.9	48	4 27.0	4 27.7	4 14.8	14.4	4.1
49	4 12.3	4 13.0	4 00.8	14.7	4.0	49	4 27.3	4 28.0	4 15.1	14.7	4.2
50	4 12.5	4 13.2	4 01.0	15.0	4.0	50	4 27.5	4 28.2	4 15.3	15.0	4.3
51	4 12.8	4 13.5	4 01.2	15.3	4.1	51	4 27.8	4 28.5	4 15.6	15.3	4.4
52	4 13.0	4 13.7	4 01.5	15.6	4.2	52	4 28.0	4 28.7	4 15.8	15.6	4.5
53	4 13.3	4 14.0	4 01.7	15.9	4.3	53	4 28.3	4 29.0	4 16.0	15.9	4.6
54	4 13.5	4 14.2	4 02.0	16.2	4.4	54	4 28.5	4 29.2	4 16.3	16.2	4.6
55	4 13.8	4 14.5	4 02.2	16.5	4.4	55	4 28.8	4 29.5	4 16.5	16.5	4.7
56	4 14.0	4 14.7	4 02.4	16.8	4.5	56	4 29.0	4 29.7	4 16.7	16.8	4.8
57	4 14.3	4 15.0	4 02.7	17.1	4.6	57	4 29.3	4 30.0	4 17.0	17.1	4.9
58	4 14.5	4 15.2	4 02.9	17.4	4.7	58	4 29.5	4 30.2	4 17.2	17.4	5.0
59	4 14.8	4 15.5	4 03.1	17.7	4.8	59	4 29.8	4 30.5	4 17.5	17.7	5.1

20 min

Schalttafel

21 min

20 min	Zuwachs Grt					21 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'				
0	5	00.0	5	00.8	4	46.3	0.0	0.0	0	5	15.0	5	15.9	5	00.6	0.0	0.0
1	5	00.2	5	01.1	4	46.6	0.3	0.1	1	5	15.3	5	16.1	5	00.9	0.3	0.1
2	5	00.5	5	01.3	4	46.8	0.6	0.2	2	5	15.5	5	16.4	5	01.1	0.6	0.2
3	5	00.8	5	01.6	4	47.0	0.9	0.3	3	5	15.8	5	16.6	5	01.4	0.9	0.3
4	5	01.0	5	01.8	4	47.3	1.2	0.4	4	5	16.0	5	16.9	5	01.6	1.2	0.4
5	5	01.2	5	02.1	4	47.5	1.5	0.5	5	5	16.3	5	17.1	5	01.8	1.5	0.5
6	5	01.5	5	02.3	4	47.8	1.8	0.6	6	5	16.5	5	17.4	5	02.1	1.8	0.6
7	5	01.8	5	02.6	4	48.0	2.1	0.7	7	5	16.8	5	17.6	5	02.3	2.1	0.7
8	5	02.0	5	02.8	4	48.2	2.4	0.8	8	5	17.0	5	17.9	5	02.6	2.4	0.8
9	5	02.2	5	03.1	4	48.5	2.7	0.9	9	5	17.3	5	18.1	5	02.8	2.7	1.0
10	5	02.5	5	03.3	4	48.7	3.0	1.0	10	5	17.5	5	18.4	5	03.0	3.0	1.1
11	5	02.7	5	03.6	4	49.0	3.3	1.1	11	5	17.8	5	18.6	5	03.3	3.3	1.2
12	5	03.0	5	03.8	4	49.2	3.6	1.2	12	5	18.0	5	18.9	5	03.5	3.6	1.3
13	5	03.2	5	04.1	4	49.4	3.9	1.3	13	5	18.3	5	19.1	5	03.8	3.9	1.4
14	5	03.5	5	04.3	4	49.7	4.2	1.4	14	5	18.5	5	19.4	5	04.0	4.2	1.5
15	5	03.7	5	04.6	4	49.9	4.5	1.5	15	5	18.7	5	19.6	5	04.2	4.5	1.6
16	5	04.0	5	04.8	4	50.2	4.8	1.6	16	5	19.0	5	19.9	5	04.5	4.8	1.7
17	5	04.2	5	05.1	4	50.4	5.1	1.7	17	5	19.3	5	20.1	5	04.7	5.1	1.8
18	5	04.5	5	05.3	4	50.6	5.4	1.8	18	5	19.5	5	20.4	5	04.9	5.4	1.9
19	5	04.8	5	05.6	4	50.9	5.7	1.9	19	5	19.8	5	20.6	5	05.2	5.7	2.0
20	5	05.0	5	05.8	4	51.1	6.0	2.0	20	5	20.0	5	20.9	5	05.4	6.0	2.1
21	5	05.3	5	06.1	4	51.3	6.3	2.1	21	5	20.3	5	21.1	5	05.7	6.3	2.2
22	5	05.5	5	06.3	4	51.6	6.6	2.2	22	5	20.5	5	21.4	5	05.9	6.6	2.3
23	5	05.7	5	06.6	4	51.8	6.9	2.3	23	5	20.8	5	21.6	5	06.1	6.9	2.4
24	5	06.0	5	06.8	4	52.1	7.2	2.4	24	5	21.0	5	21.9	5	06.4	7.2	2.5
25	5	06.2	5	07.1	4	52.3	7.5	2.5	25	5	21.3	5	22.1	5	06.6	7.5	2.7
26	5	06.5	5	07.4	4	52.5	7.8	2.6	26	5	21.5	5	22.4	5	06.9	7.8	2.8
27	5	06.7	5	07.6	4	52.8	8.1	2.7	27	5	21.8	5	22.6	5	07.1	8.1	2.9
28	5	07.0	5	07.9	4	53.0	8.4	2.8	28	5	22.0	5	22.9	5	07.3	8.4	3.0
29	5	07.2	5	08.1	4	53.3	8.7	2.9	29	5	22.3	5	23.1	5	07.6	8.7	3.1
30	5	07.5	5	08.4	4	53.5	9.0	3.0	30	5	22.5	5	23.4	5	07.8	9.0	3.2
31	5	07.7	5	08.6	4	53.7	9.3	3.1	31	5	22.8	5	23.6	5	08.0	9.3	3.3
32	5	08.0	5	08.9	4	54.0	9.6	3.2	32	5	23.0	5	23.9	5	08.3	9.6	3.4
33	5	08.2	5	09.1	4	54.2	9.9	3.3	33	5	23.3	5	24.1	5	08.5	9.9	3.5
34	5	08.5	5	09.4	4	54.4	10.2	3.4	34	5	23.5	5	24.4	5	08.8	10.2	3.6
35	5	08.7	5	09.6	4	54.7	10.5	3.5	35	5	23.8	5	24.6	5	09.0	10.5	3.7
36	5	09.0	5	09.9	4	54.9	10.8	3.6	36	5	24.0	5	24.9	5	09.2	10.8	3.8
37	5	09.3	5	10.1	4	55.2	11.1	3.7	37	5	24.3	5	25.2	5	09.5	11.1	3.9
38	5	09.5	5	10.4	4	55.4	11.4	3.8	38	5	24.5	5	25.4	5	09.7	11.4	4.0
39	5	09.7	5	10.6	4	55.6	11.7	3.9	39	5	24.8	5	25.7	5	10.0	11.7	4.1
40	5	10.0	5	10.9	4	55.9	12.0	4.0	40	5	25.0	5	25.9	5	10.2	12.0	4.2
41	5	10.3	5	11.1	4	56.1	12.3	4.1	41	5	25.3	5	26.2	5	10.4	12.3	4.4
42	5	10.5	5	11.4	4	56.4	12.6	4.2	42	5	25.5	5	26.4	5	10.7	12.6	4.5
43	5	10.8	5	11.6	4	56.6	12.9	4.3	43	5	25.8	5	26.7	5	10.9	12.9	4.6
44	5	11.0	5	11.9	4	56.8	13.2	4.4	44	5	26.0	5	26.9	5	11.1	13.2	4.7
45	5	11.3	5	12.1	4	57.1	13.5	4.6	45	5	26.3	5	27.2	5	11.4	13.5	4.8
46	5	11.5	5	12.4	4	57.3	13.8	4.7	46	5	26.5	5	27.4	5	11.6	13.8	4.9
47	5	11.8	5	12.6	4	57.5	14.1	4.8	47	5	26.8	5	27.7	5	11.9	14.1	5.0
48	5	12.0	5	12.9	4	57.8	14.4	4.9	48	5	27.0	5	27.9	5	12.1	14.4	5.1
49	5	12.3	5	13.1	4	58.0	14.7	5.0	49	5	27.3	5	28.2	5	12.3	14.7	5.2
50	5	12.5	5	13.4	4	58.3	15.0	5.1	50	5	27.5	5	28.4	5	12.6	15.0	5.3
51	5	12.8	5	13.6	4	58.5	15.3	5.2	51	5	27.8	5	28.7	5	12.8	15.3	5.4
52	5	13.0	5	13.9	4	58.7	15.6	5.3	52	5	28.0	5	28.9	5	13.1	15.6	5.5
53	5	13.3	5	14.1	4	59.0	15.9	5.4	53	5	28.3	5	29.2	5	13.3	15.9	5.6
54	5	13.5	5	14.4	4	59.2	16.2	5.5	54	5	28.5	5	29.4	5	13.5	16.2	5.7
55	5	13.8	5	14.6	4	59.5	16.5	5.6	55	5	28.8	5	29.7	5	13.8	16.5	5.8
56	5	14.0	5	14.9	4	59.7	16.8	5.7	56	5	29.0	5	29.9	5	14.0	16.8	5.9
57	5	14.2	5	15.1	4	59.9	17.1	5.8	57	5	29.2	5	30.2	5	14.3	17.1	6.1
58	5	14.5	5	15.4	5	00.2	17.4	5.9	58	5	29.5	5	30.4	5	14.5	17.4	6.2
59	5	14.8	5	15.6	5	00.4	17.7	6.0	59	5	29.8	5	30.7	5	14.7	17.7	6.3

22 min

Schalttafel

23 min

22 min	Zuwachs Grt					23 min	Zuwachs Grt				
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb
s	° ' "	° ' "	° ' "	' "	' "	s	° ' "	° ' "	° ' "	' "	' "
0	5 30.0	5 30.9	5 15.0	0.0	0.0	0	5 45.0	5 46.0	5 29.3	0.0	0.0
1	5 30.3	5 31.2	5 15.2	0.3	0.1	1	5 45.3	5 46.2	5 29.5	0.3	0.1
2	5 30.5	5 31.4	5 15.4	0.6	0.2	2	5 45.5	5 46.5	5 29.8	0.6	0.2
3	5 30.8	5 31.7	5 15.7	0.9	0.3	3	5 45.8	5 46.7	5 30.0	0.9	0.3
4	5 31.0	5 31.9	5 15.9	1.2	0.4	4	5 46.0	5 47.0	5 30.2	1.2	0.5
5	5 31.3	5 32.2	5 16.2	1.5	0.6	5	5 46.3	5 47.2	5 30.5	1.5	0.6
6	5 31.5	5 32.4	5 16.4	1.8	0.7	6	5 46.5	5 47.5	5 30.7	1.8	0.7
7	5 31.8	5 32.7	5 16.6	2.1	0.8	7	5 46.8	5 47.7	5 31.0	2.1	0.8
8	5 32.0	5 32.9	5 16.9	2.4	0.9	8	5 47.0	5 48.0	5 31.2	2.4	0.9
9	5 32.3	5 33.2	5 17.1	2.7	1.0	9	5 47.3	5 48.2	5 31.4	2.7	1.0
10	5 32.5	5 33.4	5 17.4	3.0	1.1	10	5 47.5	5 48.5	5 31.7	3.0	1.2
11	5 32.8	5 33.7	5 17.6	3.3	1.2	11	5 47.8	5 48.7	5 31.9	3.3	1.3
12	5 33.0	5 33.9	5 17.8	3.6	1.3	12	5 48.0	5 49.0	5 32.1	3.6	1.4
13	5 33.3	5 34.2	5 18.1	3.9	1.4	13	5 48.3	5 49.2	5 32.4	3.9	1.5
14	5 33.5	5 34.4	5 18.3	4.2	1.6	14	5 48.5	5 49.5	5 32.6	4.2	1.6
15	5 33.7	5 34.7	5 18.5	4.5	1.7	15	5 48.8	5 49.7	5 32.9	4.5	1.7
16	5 34.0	5 34.9	5 18.8	4.8	1.8	16	5 49.0	5 50.0	5 33.1	4.8	1.9
17	5 34.3	5 35.2	5 19.0	5.1	1.9	17	5 49.3	5 50.2	5 33.3	5.1	2.0
18	5 34.5	5 35.4	5 19.3	5.4	2.0	18	5 49.5	5 50.5	5 33.6	5.4	2.1
19	5 34.7	5 35.7	5 19.5	5.7	2.1	19	5 49.8	5 50.7	5 33.8	5.7	2.2
20	5 35.0	5 35.9	5 19.7	6.0	2.2	20	5 50.0	5 51.0	5 34.1	6.0	2.3
21	5 35.3	5 36.2	5 20.0	6.3	2.3	21	5 50.3	5 51.2	5 34.3	6.3	2.4
22	5 35.5	5 36.4	5 20.2	6.6	2.4	22	5 50.5	5 51.5	5 34.5	6.6	2.6
23	5 35.8	5 36.7	5 20.5	6.9	2.6	23	5 50.8	5 51.7	5 34.8	6.9	2.7
24	5 36.0	5 36.9	5 20.7	7.2	2.7	24	5 51.0	5 52.0	5 35.0	7.2	2.8
25	5 36.3	5 37.2	5 20.9	7.5	2.8	25	5 51.3	5 52.2	5 35.2	7.5	2.9
26	5 36.5	5 37.4	5 21.2	7.8	2.9	26	5 51.5	5 52.5	5 35.5	7.8	3.0
27	5 36.8	5 37.7	5 21.4	8.1	3.0	27	5 51.8	5 52.7	5 35.7	8.1	3.1
28	5 37.0	5 37.9	5 21.6	8.4	3.1	28	5 52.0	5 53.0	5 36.0	8.4	3.3
29	5 37.3	5 38.2	5 21.9	8.7	3.2	29	5 52.3	5 53.2	5 36.2	8.7	3.4
30	5 37.5	5 38.4	5 22.1	9.0	3.3	30	5 52.5	5 53.5	5 36.4	9.0	3.5
31	5 37.8	5 38.7	5 22.4	9.3	3.4	31	5 52.8	5 53.7	5 36.7	9.3	3.6
32	5 38.0	5 38.9	5 22.6	9.6	3.6	32	5 53.0	5 54.0	5 36.9	9.6	3.7
33	5 38.3	5 39.2	5 22.8	9.9	3.7	33	5 53.3	5 54.2	5 37.2	9.9	3.8
34	5 38.5	5 39.4	5 23.1	10.2	3.8	34	5 53.5	5 54.5	5 37.4	10.2	4.0
35	5 38.8	5 39.7	5 23.3	10.5	3.9	35	5 53.8	5 54.7	5 37.6	10.5	4.1
36	5 39.0	5 39.9	5 23.6	10.8	4.0	36	5 54.0	5 55.0	5 37.9	10.8	4.2
37	5 39.3	5 40.2	5 23.8	11.1	4.1	37	5 54.3	5 55.2	5 38.1	11.1	4.3
38	5 39.5	5 40.4	5 24.0	11.4	4.2	38	5 54.5	5 55.5	5 38.4	11.4	4.4
39	5 39.8	5 40.7	5 24.3	11.7	4.3	39	5 54.8	5 55.7	5 38.6	11.7	4.5
40	5 40.0	5 40.9	5 24.5	12.0	4.4	40	5 55.0	5 56.0	5 38.8	12.0	4.7
41	5 40.3	5 41.2	5 24.7	12.3	4.6	41	5 55.3	5 56.2	5 39.1	12.3	4.8
42	5 40.5	5 41.4	5 25.0	12.6	4.7	42	5 55.5	5 56.5	5 39.3	12.6	4.9
43	5 40.8	5 41.7	5 25.2	12.9	4.8	43	5 55.8	5 56.7	5 39.5	12.9	5.0
44	5 41.0	5 41.9	5 25.5	13.2	4.9	44	5 56.0	5 57.0	5 39.8	13.2	5.1
45	5 41.3	5 42.2	5 25.7	13.5	5.0	45	5 56.3	5 57.2	5 40.0	13.5	5.2
46	5 41.5	5 42.4	5 25.9	13.8	5.1	46	5 56.5	5 57.5	5 40.3	13.8	5.3
47	5 41.8	5 42.7	5 26.2	14.1	5.2	47	5 56.8	5 57.7	5 40.5	14.1	5.5
48	5 42.0	5 42.9	5 26.4	14.4	5.3	48	5 57.0	5 58.0	5 40.7	14.4	5.6
49	5 42.3	5 43.2	5 26.7	14.7	5.5	49	5 57.3	5 58.2	5 41.0	14.7	5.7
50	5 42.5	5 43.5	5 26.9	15.0	5.6	50	5 57.5	5 58.5	5 41.2	15.0	5.8
51	5 42.8	5 43.7	5 27.1	15.3	5.7	51	5 57.8	5 58.7	5 41.5	15.3	5.9
52	5 43.0	5 44.0	5 27.4	15.6	5.8	52	5 58.0	5 59.0	5 41.7	15.6	6.0
53	5 43.3	5 44.2	5 27.6	15.9	5.9	53	5 58.3	5 59.2	5 41.9	15.9	6.2
54	5 43.5	5 44.5	5 27.9	16.2	6.0	54	5 58.5	5 59.5	5 42.2	16.2	6.3
55	5 43.8	5 44.7	5 28.1	16.5	6.1	55	5 58.8	5 59.7	5 42.4	16.5	6.4
56	5 44.0	5 45.0	5 28.3	16.8	6.2	56	5 59.0	5 60.0	5 42.6	16.8	6.5
57	5 44.2	5 45.2	5 28.6	17.1	6.3	57	5 59.3	6 00.2	5 42.9	17.1	6.6
58	5 44.5	5 45.5	5 28.8	17.4	6.5	58	5 59.5	6 00.5	5 43.1	17.4	6.7
59	5 44.8	5 45.7	5 29.0	17.7	6.6	59	5 59.8	6 00.7	5 43.4	17.7	6.9

24 min

Schalttafel

25 min

24 min	Zuwachs Grt					25 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'	'			
0	6	00.0	6	01.0	5	43.6	0.0	0.0	0	6	15.0	6	16.0	5	57.9	0.0	0.0
1	6	00.2	6	01.3	5	43.8	0.3	0.1	1	6	15.3	6	16.3	5	58.2	0.3	0.1
2	6	00.5	6	01.5	5	44.1	0.6	0.2	2	6	15.5	6	16.5	5	58.4	0.6	0.3
3	6	00.8	6	01.8	5	44.3	0.9	0.4	3	6	15.8	6	16.8	5	58.6	0.9	0.4
4	6	01.0	6	02.0	5	44.6	1.2	0.5	4	6	16.0	6	17.0	5	58.9	1.2	0.5
5	6	01.3	6	02.3	5	44.8	1.5	0.6	5	6	16.3	6	17.3	5	59.1	1.5	0.6
6	6	01.5	6	02.5	5	45.0	1.8	0.7	6	6	16.5	6	17.5	5	59.3	1.8	0.8
7	6	01.8	6	02.8	5	45.3	2.1	0.8	7	6	16.8	6	17.8	5	59.6	2.1	0.9
8	6	02.0	6	03.0	5	45.5	2.4	1.0	8	6	17.0	6	18.0	5	59.8	2.4	1.0
9	6	02.3	6	03.3	5	45.7	2.7	1.1	9	6	17.3	6	18.3	6	00.1	2.7	1.1
10	6	02.5	6	03.5	5	46.0	3.0	1.2	10	6	17.5	6	18.5	6	00.3	3.0	1.3
11	6	02.8	6	03.8	5	46.2	3.3	1.3	11	6	17.8	6	18.8	6	00.5	3.3	1.4
12	6	03.0	6	04.0	5	46.5	3.6	1.5	12	6	18.0	6	19.1	6	00.8	3.6	1.5
13	6	03.3	6	04.3	5	46.7	3.9	1.6	13	6	18.3	6	19.3	6	01.0	3.9	1.6
14	6	03.5	6	04.5	5	46.9	4.2	1.7	14	6	18.5	6	19.6	6	01.3	4.2	1.8
15	6	03.8	6	04.8	5	47.2	4.5	1.8	15	6	18.8	6	19.8	6	01.5	4.5	1.9
16	6	04.0	6	05.0	5	47.4	4.8	1.9	16	6	19.0	6	20.1	6	01.7	4.8	2.0
17	6	04.3	6	05.3	5	47.7	5.1	2.1	17	6	19.3	6	20.3	6	02.0	5.1	2.1
18	6	04.5	6	05.5	5	47.9	5.4	2.2	18	6	19.5	6	20.6	6	02.2	5.4	2.3
19	6	04.8	6	05.8	5	48.1	5.7	2.3	19	6	19.8	6	20.8	6	02.5	5.7	2.4
20	6	05.0	6	06.0	5	48.4	6.0	2.4	20	6	20.0	6	21.1	6	02.7	6.0	2.5
21	6	05.3	6	06.3	5	48.6	6.3	2.5	21	6	20.3	6	21.3	6	02.9	6.3	2.7
22	6	05.5	6	06.5	5	48.8	6.6	2.7	22	6	20.5	6	21.6	6	03.2	6.6	2.8
23	6	05.7	6	06.8	5	49.1	6.9	2.8	23	6	20.8	6	21.8	6	03.4	6.9	2.9
24	6	06.0	6	07.0	5	49.3	7.2	2.9	24	6	21.0	6	22.1	6	03.6	7.2	3.0
25	6	06.3	6	07.3	5	49.6	7.5	3.0	25	6	21.3	6	22.3	6	03.9	7.5	3.2
26	6	06.5	6	07.5	5	49.8	7.8	3.2	26	6	21.5	6	22.6	6	04.1	7.8	3.3
27	6	06.8	6	07.8	5	50.0	8.1	3.3	27	6	21.8	6	22.8	6	04.4	8.1	3.4
28	6	07.0	6	08.0	5	50.3	8.4	3.4	28	6	22.0	6	23.1	6	04.6	8.4	3.5
29	6	07.3	6	08.3	5	50.5	8.7	3.5	29	6	22.3	6	23.3	6	04.8	8.7	3.7
30	6	07.5	6	08.5	5	50.8	9.0	3.6	30	6	22.5	6	23.6	6	05.1	9.0	3.8
31	6	07.8	6	08.8	5	51.0	9.3	3.8	31	6	22.8	6	23.8	6	05.3	9.3	3.9
32	6	08.0	6	09.0	5	51.2	9.6	3.9	32	6	23.0	6	24.1	6	05.6	9.6	4.0
33	6	08.3	6	09.3	5	51.5	9.9	4.0	33	6	23.3	6	24.3	6	05.8	9.9	4.2
34	6	08.5	6	09.5	5	51.7	10.2	4.1	34	6	23.5	6	24.6	6	06.0	10.2	4.3
35	6	08.8	6	09.8	5	52.0	10.5	4.2	35	6	23.8	6	24.8	6	06.3	10.5	4.4
36	6	09.0	6	10.0	5	52.2	10.8	4.4	36	6	24.0	6	25.1	6	06.5	10.8	4.6
37	6	09.3	6	10.3	5	52.4	11.1	4.5	37	6	24.3	6	25.3	6	06.7	11.1	4.7
38	6	09.5	6	10.5	5	52.7	11.4	4.6	38	6	24.5	6	25.6	6	07.0	11.4	4.8
39	6	09.8	6	10.8	5	52.9	11.7	4.7	39	6	24.8	6	25.8	6	07.2	11.7	4.9
40	6	10.0	6	11.0	5	53.1	12.0	4.9	40	6	25.0	6	26.1	6	07.5	12.0	5.1
41	6	10.3	6	11.3	5	53.4	12.3	5.0	41	6	25.3	6	26.3	6	07.7	12.3	5.2
42	6	10.5	6	11.5	5	53.6	12.6	5.1	42	6	25.5	6	26.6	6	07.9	12.6	5.3
43	6	10.8	6	11.8	5	53.9	12.9	5.2	43	6	25.8	6	26.8	6	08.2	12.9	5.4
44	6	11.0	6	12.0	5	54.1	13.2	5.3	44	6	26.0	6	27.1	6	08.4	13.2	5.6
45	6	11.3	6	12.3	5	54.3	13.5	5.5	45	6	26.3	6	27.3	6	08.7	13.5	5.7
46	6	11.5	6	12.5	5	54.6	13.8	5.6	46	6	26.5	6	27.6	6	08.9	13.8	5.8
47	6	11.8	6	12.8	5	54.8	14.1	5.7	47	6	26.8	6	27.8	6	09.1	14.1	5.9
48	6	12.0	6	13.0	5	55.1	14.4	5.8	48	6	27.0	6	28.1	6	09.4	14.4	6.1
49	6	12.3	6	13.3	5	55.3	14.7	5.9	49	6	27.3	6	28.3	6	09.6	14.7	6.2
50	6	12.5	6	13.5	5	55.5	15.0	6.1	50	6	27.5	6	28.6	6	09.8	15.0	6.3
51	6	12.8	6	13.8	5	55.8	15.3	6.2	51	6	27.8	6	28.8	6	10.1	15.3	6.4
52	6	13.0	6	14.0	5	56.0	15.6	6.3	52	6	28.0	6	29.1	6	10.3	15.6	6.6
53	6	13.3	6	14.3	5	56.2	15.9	6.4	53	6	28.3	6	29.3	6	10.6	15.9	6.7
54	6	13.5	6	14.5	5	56.5	16.2	6.6	54	6	28.5	6	29.6	6	10.8	16.2	6.8
55	6	13.8	6	14.8	5	56.7	16.5	6.7	55	6	28.8	6	29.8	6	11.0	16.5	7.0
56	6	14.0	6	15.0	5	57.0	16.8	6.8	56	6	29.0	6	30.1	6	11.3	16.8	7.1
57	6	14.3	6	15.3	5	57.2	17.1	6.9	57	6	29.3	6	30.3	6	11.5	17.1	7.2
58	6	14.5	6	15.5	5	57.4	17.4	7.0	58	6	29.5	6	30.6	6	11.8	17.4	7.3
59	6	14.8	6	15.8	5	57.7	17.7	7.2	59	6	29.8	6	30.8	6	12.0	17.7	7.5

28 min

Schalttafel

29 min

28 min	Zuwachs Grt					29 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	s	o	'	o	'	o	'	'	'		
0	7	00.0	7	01.2	6	40.9	0.0	0.0	0	7	15.0	7	16.2	6	55.2	0.0	0.0
1	7	00.2	7	01.4	6	41.1	0.3	0.1	1	7	15.3	7	16.5	6	55.4	0.3	0.1
2	7	00.5	7	01.7	6	41.3	0.6	0.3	2	7	15.5	7	16.7	6	55.7	0.6	0.3
3	7	00.8	7	01.9	6	41.6	0.9	0.4	3	7	15.8	7	17.0	6	55.9	0.9	0.4
4	7	01.0	7	02.2	6	41.8	1.2	0.6	4	7	16.0	7	17.2	6	56.1	1.2	0.6
5	7	01.2	7	02.4	6	42.1	1.5	0.7	5	7	16.3	7	17.5	6	56.4	1.5	0.7
6	7	01.5	7	02.7	6	42.3	1.8	0.8	6	7	16.5	7	17.7	6	56.6	1.8	0.9
7	7	01.8	7	02.9	6	42.5	2.1	1.0	7	7	16.8	7	18.0	6	56.9	2.1	1.0
8	7	02.0	7	03.2	6	42.8	2.4	1.1	8	7	17.0	7	18.2	6	57.1	2.4	1.2
9	7	02.3	7	03.4	6	43.0	2.7	1.3	9	7	17.3	7	18.5	6	57.3	2.7	1.3
10	7	02.5	7	03.7	6	43.3	3.0	1.4	10	7	17.5	7	18.7	6	57.6	3.0	1.5
11	7	02.8	7	03.9	6	43.5	3.3	1.6	11	7	17.8	7	19.0	6	57.8	3.3	1.6
12	7	03.0	7	04.2	6	43.7	3.6	1.7	12	7	18.0	7	19.2	6	58.0	3.6	1.8
13	7	03.3	7	04.4	6	44.0	3.9	1.8	13	7	18.3	7	19.5	6	58.3	3.9	1.9
14	7	03.5	7	04.7	6	44.2	4.2	2.0	14	7	18.5	7	19.7	6	58.5	4.2	2.1
15	7	03.8	7	04.9	6	44.4	4.5	2.1	15	7	18.8	7	20.0	6	58.8	4.5	2.2
16	7	04.0	7	05.2	6	44.7	4.8	2.3	16	7	19.0	7	20.2	6	59.0	4.8	2.3
17	7	04.3	7	05.4	6	44.9	5.1	2.4	17	7	19.3	7	20.5	6	59.2	5.1	2.5
18	7	04.5	7	05.7	6	45.2	5.4	2.5	18	7	19.5	7	20.7	6	59.5	5.4	2.6
19	7	04.8	7	05.9	6	45.4	5.7	2.7	19	7	19.8	7	21.0	6	59.7	5.7	2.8
20	7	05.0	7	06.2	6	45.6	6.0	2.8	20	7	20.0	7	21.2	6	60.0	6.0	2.9
21	7	05.3	7	06.4	6	45.9	6.3	3.0	21	7	20.3	7	21.5	7	00.2	6.3	3.1
22	7	05.5	7	06.7	6	46.1	6.6	3.1	22	7	20.5	7	21.7	7	00.4	6.6	3.2
23	7	05.7	7	06.9	6	46.4	6.9	3.3	23	7	20.8	7	22.0	7	00.7	6.9	3.4
24	7	06.0	7	07.2	6	46.6	7.2	3.4	24	7	21.0	7	22.2	7	00.9	7.2	3.5
25	7	06.2	7	07.4	6	46.8	7.5	3.5	25	7	21.3	7	22.5	7	01.1	7.5	3.7
26	7	06.5	7	07.7	6	47.1	7.8	3.7	26	7	21.5	7	22.7	7	01.4	7.8	3.8
27	7	06.7	7	07.9	6	47.3	8.1	3.8	27	7	21.8	7	23.0	7	01.6	8.1	4.0
28	7	07.0	7	08.2	6	47.5	8.4	4.0	28	7	22.0	7	23.2	7	01.9	8.4	4.1
29	7	07.3	7	08.4	6	47.8	8.7	4.1	29	7	22.3	7	23.5	7	02.1	8.7	4.3
30	7	07.5	7	08.7	6	48.0	9.0	4.2	30	7	22.5	7	23.7	7	02.3	9.0	4.4
31	7	07.8	7	08.9	6	48.3	9.3	4.4	31	7	22.8	7	24.0	7	02.6	9.3	4.5
32	7	08.0	7	09.2	6	48.5	9.6	4.5	32	7	23.0	7	24.2	7	02.8	9.6	4.7
33	7	08.3	7	09.4	6	48.7	9.9	4.7	33	7	23.3	7	24.5	7	03.1	9.9	4.8
34	7	08.5	7	09.7	6	49.0	10.2	4.8	34	7	23.5	7	24.7	7	03.3	10.2	5.0
35	7	08.8	7	09.9	6	49.2	10.5	5.0	35	7	23.8	7	25.0	7	03.5	10.5	5.1
36	7	09.0	7	10.2	6	49.5	10.8	5.1	36	7	24.0	7	25.2	7	03.8	10.8	5.3
37	7	09.3	7	10.4	6	49.7	11.1	5.2	37	7	24.3	7	25.5	7	04.0	11.1	5.4
38	7	09.5	7	10.7	6	49.9	11.4	5.4	38	7	24.5	7	25.7	7	04.3	11.4	5.6
39	7	09.8	7	10.9	6	50.2	11.7	5.5	39	7	24.8	7	26.0	7	04.5	11.7	5.7
40	7	10.0	7	11.2	6	50.4	12.0	5.7	40	7	25.0	7	26.2	7	04.7	12.0	5.9
41	7	10.3	7	11.4	6	50.6	12.3	5.8	41	7	25.3	7	26.5	7	05.0	12.3	6.0
42	7	10.5	7	11.7	6	50.9	12.6	5.9	42	7	25.5	7	26.7	7	05.2	12.6	6.2
43	7	10.8	7	11.9	6	51.1	12.9	6.1	43	7	25.8	7	27.0	7	05.4	12.9	6.3
44	7	11.0	7	12.2	6	51.4	13.2	6.2	44	7	26.0	7	27.2	7	05.7	13.2	6.5
45	7	11.3	7	12.4	6	51.6	13.5	6.4	45	7	26.3	7	27.5	7	05.9	13.5	6.6
46	7	11.5	7	12.7	6	51.8	13.8	6.5	46	7	26.5	7	27.7	7	06.2	13.8	6.7
47	7	11.8	7	12.9	6	52.1	14.1	6.7	47	7	26.8	7	28.0	7	06.4	14.1	6.9
48	7	12.0	7	13.2	6	52.3	14.4	6.8	48	7	27.0	7	28.2	7	06.6	14.4	7.0
49	7	12.3	7	13.5	6	52.6	14.7	6.9	49	7	27.3	7	28.5	7	06.9	14.7	7.2
50	7	12.5	7	13.7	6	52.8	15.0	7.1	50	7	27.5	7	28.7	7	07.1	15.0	7.3
51	7	12.8	7	14.0	6	53.0	15.3	7.2	51	7	27.8	7	29.0	7	07.4	15.3	7.5
52	7	13.0	7	14.2	6	53.3	15.6	7.4	52	7	28.0	7	29.2	7	07.6	15.6	7.6
53	7	13.3	7	14.5	6	53.5	15.9	7.5	53	7	28.3	7	29.5	7	07.8	15.9	7.8
54	7	13.5	7	14.7	6	53.8	16.2	7.6	54	7	28.5	7	29.7	7	08.1	16.2	7.9
55	7	13.8	7	15.0	6	54.0	16.5	7.8	55	7	28.8	7	30.0	7	08.3	16.5	8.1
56	7	14.0	7	15.2	6	54.2	16.8	7.9	56	7	29.0	7	30.2	7	08.5	16.8	8.2
57	7	14.3	7	15.5	6	54.5	17.1	8.1	57	7	29.3	7	30.5	7	08.8	17.1	8.4
58	7	14.5	7	15.7	6	54.7	17.4	8.2	58	7	29.5	7	30.7	7	09.0	17.4	8.5
59	7	14.8	7	16.0	6	54.9	17.7	8.4	59	7	29.8	7	31.0	7	09.3	17.7	8.7

30 min

Schalttafel

31 min

30 min	Zuwachs Grt					31 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'	'			
0	7	30.0	7	31.3	7	09.5	0.0	0.0	0	7	45.0	7	46.3	7	23.8	0.0	0.0
1	7	30.3	7	31.5	7	09.7	0.3	0.2	1	7	45.3	7	46.5	7	24.1	0.3	0.2
2	7	30.5	7	31.8	7	10.0	0.6	0.3	2	7	45.5	7	46.8	7	24.3	0.6	0.3
3	7	30.8	7	32.0	7	10.2	0.9	0.5	3	7	45.8	7	47.0	7	24.5	0.9	0.5
4	7	31.0	7	32.3	7	10.5	1.2	0.6	4	7	46.0	7	47.3	7	24.8	1.2	0.6
5	7	31.3	7	32.5	7	10.7	1.5	0.8	5	7	46.3	7	47.5	7	25.0	1.5	0.8
6	7	31.5	7	32.8	7	10.9	1.8	0.9	6	7	46.5	7	47.8	7	25.2	1.8	0.9
7	7	31.8	7	33.0	7	11.2	2.1	1.1	7	7	46.8	7	48.0	7	25.5	2.1	1.1
8	7	32.0	7	33.3	7	11.4	2.4	1.2	8	7	47.0	7	48.3	7	25.7	2.4	1.3
9	7	32.3	7	33.5	7	11.6	2.7	1.4	9	7	47.3	7	48.5	7	26.0	2.7	1.4
10	7	32.5	7	33.8	7	11.9	3.0	1.5	10	7	47.5	7	48.8	7	26.2	3.0	1.6
11	7	32.8	7	34.0	7	12.1	3.3	1.7	11	7	47.8	7	49.0	7	26.4	3.3	1.7
12	7	33.0	7	34.3	7	12.4	3.6	1.8	12	7	48.0	7	49.3	7	26.7	3.6	1.9
13	7	33.3	7	34.5	7	12.6	3.9	2.0	13	7	48.3	7	49.6	7	26.9	3.9	2.0
14	7	33.5	7	34.8	7	12.8	4.2	2.1	14	7	48.5	7	49.8	7	27.2	4.2	2.2
15	7	33.8	7	35.0	7	13.1	4.5	2.3	15	7	48.8	7	50.1	7	27.4	4.5	2.4
16	7	34.0	7	35.3	7	13.3	4.8	2.4	16	7	49.0	7	50.3	7	27.6	4.8	2.5
17	7	34.3	7	35.5	7	13.6	5.1	2.6	17	7	49.3	7	50.6	7	27.9	5.1	2.7
18	7	34.5	7	35.8	7	13.8	5.4	2.7	18	7	49.5	7	50.8	7	28.1	5.4	2.8
19	7	34.8	7	36.0	7	14.0	5.7	2.9	19	7	49.8	7	51.1	7	28.4	5.7	3.0
20	7	35.0	7	36.3	7	14.3	6.0	3.0	20	7	50.0	7	51.3	7	28.6	6.0	3.1
21	7	35.3	7	36.5	7	14.5	6.3	3.2	21	7	50.3	7	51.6	7	28.8	6.3	3.3
22	7	35.5	7	36.8	7	14.7	6.6	3.3	22	7	50.5	7	51.8	7	29.1	6.6	3.4
23	7	35.8	7	37.0	7	15.0	6.9	3.5	23	7	50.8	7	52.1	7	29.3	6.9	3.6
24	7	36.0	7	37.3	7	15.2	7.2	3.6	24	7	51.0	7	52.3	7	29.5	7.2	3.8
25	7	36.3	7	37.5	7	15.5	7.5	3.8	25	7	51.3	7	52.6	7	29.8	7.5	3.9
26	7	36.5	7	37.8	7	15.7	7.8	3.9	26	7	51.5	7	52.8	7	30.0	7.8	4.1
27	7	36.7	7	38.0	7	15.9	8.1	4.1	27	7	51.8	7	53.1	7	30.3	8.1	4.2
28	7	37.0	7	38.3	7	16.2	8.4	4.2	28	7	52.0	7	53.3	7	30.5	8.4	4.4
29	7	37.3	7	38.5	7	16.4	8.7	4.4	29	7	52.3	7	53.6	7	30.7	8.7	4.5
30	7	37.5	7	38.8	7	16.7	9.0	4.6	30	7	52.5	7	53.8	7	31.0	9.0	4.7
31	7	37.8	7	39.0	7	16.9	9.3	4.7	31	7	52.8	7	54.1	7	31.2	9.3	4.9
32	7	38.0	7	39.3	7	17.1	9.6	4.9	32	7	53.0	7	54.3	7	31.5	9.6	5.0
33	7	38.3	7	39.5	7	17.4	9.9	5.0	33	7	53.3	7	54.6	7	31.7	9.9	5.2
34	7	38.5	7	39.8	7	17.6	10.2	5.2	34	7	53.5	7	54.8	7	31.9	10.2	5.3
35	7	38.8	7	40.0	7	17.9	10.5	5.3	35	7	53.8	7	55.1	7	32.2	10.5	5.5
36	7	39.0	7	40.3	7	18.1	10.8	5.5	36	7	54.0	7	55.3	7	32.4	10.8	5.6
37	7	39.3	7	40.5	7	18.3	11.1	5.6	37	7	54.3	7	55.6	7	32.6	11.1	5.8
38	7	39.5	7	40.8	7	18.6	11.4	5.8	38	7	54.5	7	55.8	7	32.9	11.4	6.0
39	7	39.8	7	41.0	7	18.8	11.7	5.9	39	7	54.8	7	56.1	7	33.1	11.7	6.1
40	7	40.0	7	41.3	7	19.0	12.0	6.1	40	7	55.0	7	56.3	7	33.4	12.0	6.3
41	7	40.3	7	41.5	7	19.3	12.3	6.2	41	7	55.3	7	56.6	7	33.6	12.3	6.4
42	7	40.5	7	41.8	7	19.5	12.6	6.4	42	7	55.5	7	56.8	7	33.8	12.6	6.6
43	7	40.8	7	42.0	7	19.8	12.9	6.5	43	7	55.8	7	57.1	7	34.1	12.9	6.7
44	7	41.0	7	42.3	7	20.0	13.2	6.7	44	7	56.0	7	57.3	7	34.3	13.2	6.9
45	7	41.2	7	42.5	7	20.2	13.5	6.8	45	7	56.3	7	57.6	7	34.6	13.5	7.1
46	7	41.5	7	42.8	7	20.5	13.8	7.0	46	7	56.5	7	57.8	7	34.8	13.8	7.2
47	7	41.8	7	43.0	7	20.7	14.1	7.1	47	7	56.8	7	58.1	7	35.0	14.1	7.4
48	7	42.0	7	43.3	7	21.0	14.4	7.3	48	7	57.0	7	58.3	7	35.3	14.4	7.5
49	7	42.3	7	43.5	7	21.2	14.7	7.4	49	7	57.3	7	58.6	7	35.5	14.7	7.7
50	7	42.5	7	43.8	7	21.4	15.0	7.6	50	7	57.5	7	58.8	7	35.7	15.0	7.8
51	7	42.8	7	44.0	7	21.7	15.3	7.7	51	7	57.8	7	59.1	7	36.0	15.3	8.0
52	7	43.0	7	44.3	7	21.9	15.6	7.9	52	7	58.0	7	59.3	7	36.2	15.6	8.2
53	7	43.3	7	44.5	7	22.1	15.9	8.0	53	7	58.3	7	59.6	7	36.5	15.9	8.3
54	7	43.5	7	44.8	7	22.4	16.2	8.2	54	7	58.5	7	59.8	7	36.7	16.2	8.5
55	7	43.8	7	45.0	7	22.6	16.5	8.3	55	7	58.8	8	00.1	7	36.9	16.5	8.6
56	7	44.0	7	45.3	7	22.9	16.8	8.5	56	7	59.0	8	00.3	7	37.2	16.8	8.8
57	7	44.3	7	45.5	7	23.1	17.1	8.6	57	7	59.3	8	00.6	7	37.4	17.1	8.9
58	7	44.5	7	45.8	7	23.3	17.4	8.8	58	7	59.5	8	00.8	7	37.7	17.4	9.1
59	7	44.8	7	46.0	7	23.6	17.7	8.9	59	7	59.8	8	01.1	7	37.9	17.7	9.2

34 min

Schalttafel

35 min

34 min	Zuwachs Grt					35 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'				
0	8	30.0	8	31.4	8	06.8	0.0	0.0	0	8	45.0	8	46.5	8	21.1	0.0	0.0
1	8	30.3	8	31.7	8	07.0	0.3	0.2	1	8	45.3	8	46.7	8	21.3	0.3	0.2
2	8	30.5	8	31.9	8	07.2	0.6	0.3	2	8	45.5	8	47.0	8	21.6	0.6	0.4
3	8	30.8	8	32.2	8	07.5	0.9	0.5	3	8	45.8	8	47.2	8	21.8	0.9	0.5
4	8	31.0	8	32.4	8	07.7	1.2	0.7	4	8	46.0	8	47.5	8	22.0	1.2	0.7
5	8	31.2	8	32.7	8	08.0	1.5	0.9	5	8	46.3	8	47.7	8	22.3	1.5	0.9
6	8	31.5	8	32.9	8	08.2	1.8	1.0	6	8	46.5	8	48.0	8	22.5	1.8	1.1
7	8	31.8	8	33.2	8	08.4	2.1	1.2	7	8	46.8	8	48.2	8	22.8	2.1	1.2
8	8	32.0	8	33.4	8	08.7	2.4	1.4	8	8	47.0	8	48.5	8	23.0	2.4	1.4
9	8	32.3	8	33.7	8	08.9	2.7	1.5	9	8	47.3	8	48.7	8	23.2	2.7	1.6
10	8	32.5	8	33.9	8	09.2	3.0	1.7	10	8	47.5	8	49.0	8	23.5	3.0	1.8
11	8	32.8	8	34.2	8	09.4	3.3	1.9	11	8	47.8	8	49.2	8	23.7	3.3	1.9
12	8	33.0	8	34.4	8	09.6	3.6	2.1	12	8	48.0	8	49.5	8	23.9	3.6	2.1
13	8	33.3	8	34.7	8	09.9	3.9	2.2	13	8	48.3	8	49.7	8	24.2	3.9	2.3
14	8	33.5	8	34.9	8	10.1	4.2	2.4	14	8	48.5	8	50.0	8	24.4	4.2	2.5
15	8	33.8	8	35.2	8	10.3	4.5	2.6	15	8	48.8	8	50.2	8	24.7	4.5	2.7
16	8	34.0	8	35.4	8	10.6	4.8	2.8	16	8	49.0	8	50.5	8	24.9	4.8	2.8
17	8	34.3	8	35.7	8	10.8	5.1	2.9	17	8	49.3	8	50.7	8	25.1	5.1	3.0
18	8	34.5	8	35.9	8	11.1	5.4	3.1	18	8	49.5	8	51.0	8	25.4	5.4	3.2
19	8	34.8	8	36.2	8	11.3	5.7	3.3	19	8	49.8	8	51.2	8	25.6	5.7	3.4
20	8	35.0	8	36.4	8	11.5	6.0	3.4	20	8	50.0	8	51.5	8	25.9	6.0	3.5
21	8	35.3	8	36.7	8	11.8	6.3	3.6	21	8	50.3	8	51.7	8	26.1	6.3	3.7
22	8	35.5	8	36.9	8	12.0	6.6	3.8	22	8	50.5	8	52.0	8	26.3	6.6	3.9
23	8	35.8	8	37.2	8	12.3	6.9	4.0	23	8	50.8	8	52.2	8	26.6	6.9	4.1
24	8	36.0	8	37.4	8	12.5	7.2	4.1	24	8	51.0	8	52.5	8	26.8	7.2	4.2
25	8	36.3	8	37.7	8	12.7	7.5	4.3	25	8	51.3	8	52.7	8	27.0	7.5	4.4
26	8	36.5	8	37.9	8	13.0	7.8	4.5	26	8	51.5	8	53.0	8	27.3	7.8	4.6
27	8	36.7	8	38.2	8	13.2	8.1	4.6	27	8	51.8	8	53.2	8	27.5	8.1	4.8
28	8	37.0	8	38.4	8	13.4	8.4	4.8	28	8	52.0	8	53.5	8	27.8	8.4	5.0
29	8	37.3	8	38.7	8	13.7	8.7	5.0	29	8	52.3	8	53.7	8	28.0	8.7	5.1
30	8	37.5	8	38.9	8	13.9	9.0	5.2	30	8	52.5	8	54.0	8	28.2	9.0	5.3
31	8	37.8	8	39.2	8	14.2	9.3	5.3	31	8	52.8	8	54.2	8	28.5	9.3	5.5
32	8	38.0	8	39.4	8	14.4	9.6	5.5	32	8	53.0	8	54.5	8	28.7	9.6	5.7
33	8	38.3	8	39.7	8	14.6	9.9	5.7	33	8	53.3	8	54.7	8	29.0	9.9	5.8
34	8	38.5	8	39.9	8	14.9	10.2	5.8	34	8	53.5	8	55.0	8	29.2	10.2	6.0
35	8	38.7	8	40.2	8	15.1	10.5	6.0	35	8	53.8	8	55.2	8	29.4	10.5	6.2
36	8	39.0	8	40.4	8	15.4	10.8	6.2	36	8	54.0	8	55.5	8	29.7	10.8	6.4
37	8	39.3	8	40.7	8	15.6	11.1	6.4	37	8	54.3	8	55.7	8	29.9	11.1	6.5
38	8	39.5	8	40.9	8	15.8	11.4	6.5	38	8	54.5	8	56.0	8	30.2	11.4	6.7
39	8	39.8	8	41.2	8	16.1	11.7	6.7	39	8	54.8	8	56.2	8	30.4	11.7	6.9
40	8	40.0	8	41.4	8	16.3	12.0	6.9	40	8	55.0	8	56.5	8	30.6	12.0	7.1
41	8	40.3	8	41.7	8	16.5	12.3	7.0	41	8	55.3	8	56.7	8	30.9	12.3	7.3
42	8	40.5	8	41.9	8	16.8	12.6	7.2	42	8	55.5	8	57.0	8	31.1	12.6	7.4
43	8	40.7	8	42.2	8	17.0	12.9	7.4	43	8	55.8	8	57.2	8	31.3	12.9	7.6
44	8	41.0	8	42.4	8	17.3	13.2	7.6	44	8	56.0	8	57.5	8	31.6	13.2	7.8
45	8	41.3	8	42.7	8	17.5	13.5	7.7	45	8	56.3	8	57.7	8	31.8	13.5	8.0
46	8	41.5	8	42.9	8	17.7	13.8	7.9	46	8	56.5	8	58.0	8	32.1	13.8	8.1
47	8	41.8	8	43.2	8	18.0	14.1	8.1	47	8	56.8	8	58.2	8	32.3	14.1	8.3
48	8	42.0	8	43.4	8	18.2	14.4	8.3	48	8	57.0	8	58.5	8	32.5	14.4	8.5
49	8	42.3	8	43.7	8	18.5	14.7	8.4	49	8	57.3	8	58.7	8	32.8	14.7	8.7
50	8	42.5	8	44.0	8	18.7	15.0	8.6	50	8	57.5	8	59.0	8	33.0	15.0	8.8
51	8	42.8	8	44.2	8	18.9	15.3	8.8	51	8	57.8	8	59.2	8	33.3	15.3	9.0
52	8	43.0	8	44.5	8	19.2	15.6	8.9	52	8	58.0	8	59.5	8	33.5	15.6	9.2
53	8	43.3	8	44.7	8	19.4	15.9	9.1	53	8	58.3	8	59.7	8	33.7	15.9	9.4
54	8	43.5	8	45.0	8	19.7	16.2	9.3	54	8	58.5	8	60.0	8	34.0	16.2	9.6
55	8	43.8	8	45.2	8	19.9	16.5	9.5	55	8	58.8	9	00.2	8	34.2	16.5	9.7
56	8	44.0	8	45.5	8	20.1	16.8	9.6	56	8	59.0	9	00.5	8	34.4	16.8	9.9
57	8	44.3	8	45.7	8	20.4	17.1	9.8	57	8	59.3	9	00.7	8	34.7	17.1	10.1
58	8	44.5	8	46.0	8	20.6	17.4	10.0	58	8	59.5	9	01.0	8	34.9	17.4	10.3
59	8	44.8	8	46.2	8	20.8	17.7	10.1	59	8	59.8	9	01.2	8	35.2	17.7	10.4

36 min

Schalttafel

37 min

36 min	Zuwachs Grt					37 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	s	o	'	o	'	o	'	'			
0	9	00.0	9	01.5	8	35.4	0.0	0.0	0	9	15.0	9	16.5	8	49.7	0.0	0.0
1	9	00.2	9	01.8	8	35.6	0.3	0.2	1	9	15.3	9	16.8	8	50.0	0.3	0.2
2	9	00.5	9	02.0	8	35.9	0.6	0.4	2	9	15.5	9	17.0	8	50.2	0.6	0.4
3	9	00.7	9	02.3	8	36.1	0.9	0.5	3	9	15.8	9	17.3	8	50.4	0.9	0.6
4	9	01.0	9	02.5	8	36.4	1.2	0.7	4	9	16.0	9	17.5	8	50.7	1.2	0.7
5	9	01.2	9	02.8	8	36.6	1.5	0.9	5	9	16.3	9	17.8	8	50.9	1.5	0.9
6	9	01.5	9	03.0	8	36.8	1.8	1.1	6	9	16.5	9	18.0	8	51.1	1.8	1.1
7	9	01.7	9	03.3	8	37.1	2.1	1.3	7	9	16.8	9	18.3	8	51.4	2.1	1.3
8	9	02.0	9	03.5	8	37.3	2.4	1.5	8	9	17.0	9	18.5	8	51.6	2.4	1.5
9	9	02.2	9	03.8	8	37.5	2.7	1.6	9	9	17.3	9	18.8	8	51.9	2.7	1.7
10	9	02.5	9	04.0	8	37.8	3.0	1.8	10	9	17.5	9	19.0	8	52.1	3.0	1.9
11	9	02.8	9	04.3	8	38.0	3.3	2.0	11	9	17.8	9	19.3	8	52.3	3.3	2.1
12	9	03.0	9	04.5	8	38.3	3.6	2.2	12	9	18.0	9	19.6	8	52.6	3.6	2.2
13	9	03.3	9	04.8	8	38.5	3.9	2.4	13	9	18.3	9	19.8	8	52.8	3.9	2.4
14	9	03.5	9	05.0	8	38.7	4.2	2.5	14	9	18.5	9	20.1	8	53.1	4.2	2.6
15	9	03.8	9	05.3	8	39.0	4.5	2.7	15	9	18.8	9	20.3	8	53.3	4.5	2.8
16	9	04.0	9	05.5	8	39.2	4.8	2.9	16	9	19.0	9	20.6	8	53.5	4.8	3.0
17	9	04.2	9	05.8	8	39.5	5.1	3.1	17	9	19.3	9	20.8	8	53.8	5.1	3.2
18	9	04.5	9	06.0	8	39.7	5.4	3.3	18	9	19.5	9	21.1	8	54.0	5.4	3.4
19	9	04.8	9	06.3	8	39.9	5.7	3.5	19	9	19.8	9	21.3	8	54.3	5.7	3.6
20	9	05.0	9	06.5	8	40.2	6.0	3.6	20	9	20.0	9	21.6	8	54.5	6.0	3.7
21	9	05.3	9	06.8	8	40.4	6.3	3.8	21	9	20.3	9	21.8	8	54.7	6.3	3.9
22	9	05.5	9	07.0	8	40.6	6.6	4.0	22	9	20.5	9	22.1	8	55.0	6.6	4.1
23	9	05.7	9	07.3	8	40.9	6.9	4.2	23	9	20.8	9	22.3	8	55.2	6.9	4.3
24	9	06.0	9	07.5	8	41.1	7.2	4.4	24	9	21.0	9	22.6	8	55.4	7.2	4.5
25	9	06.2	9	07.8	8	41.4	7.5	4.6	25	9	21.3	9	22.8	8	55.7	7.5	4.7
26	9	06.5	9	08.0	8	41.6	7.8	4.7	26	9	21.5	9	23.1	8	55.9	7.8	4.9
27	9	06.7	9	08.3	8	41.8	8.1	4.9	27	9	21.7	9	23.3	8	56.2	8.1	5.1
28	9	07.0	9	08.5	8	42.1	8.4	5.1	28	9	22.0	9	23.6	8	56.4	8.4	5.2
29	9	07.3	9	08.8	8	42.3	8.7	5.3	29	9	22.3	9	23.8	8	56.6	8.7	5.4
30	9	07.5	9	09.0	8	42.6	9.0	5.5	30	9	22.5	9	24.1	8	56.9	9.0	5.6
31	9	07.7	9	09.3	8	42.8	9.3	5.6	31	9	22.8	9	24.3	8	57.1	9.3	5.8
32	9	08.0	9	09.5	8	43.0	9.6	5.8	32	9	23.0	9	24.6	8	57.4	9.6	6.0
33	9	08.2	9	09.8	8	43.3	9.9	6.0	33	9	23.3	9	24.8	8	57.6	9.9	6.2
34	9	08.5	9	10.0	8	43.5	10.2	6.2	34	9	23.5	9	25.1	8	57.8	10.2	6.4
35	9	08.7	9	10.3	8	43.8	10.5	6.4	35	9	23.8	9	25.3	8	58.1	10.5	6.5
36	9	09.0	9	10.5	8	44.0	10.8	6.6	36	9	24.0	9	25.6	8	58.3	10.8	6.7
37	9	09.3	9	10.8	8	44.2	11.1	6.7	37	9	24.3	9	25.8	8	58.5	11.1	6.9
38	9	09.5	9	11.0	8	44.5	11.4	6.9	38	9	24.5	9	26.1	8	58.8	11.4	7.1
39	9	09.7	9	11.3	8	44.7	11.7	7.1	39	9	24.8	9	26.3	8	59.0	11.7	7.3
40	9	10.0	9	11.5	8	44.9	12.0	7.3	40	9	25.0	9	26.6	8	59.3	12.0	7.5
41	9	10.3	9	11.8	8	45.2	12.3	7.5	41	9	25.3	9	26.8	8	59.5	12.3	7.7
42	9	10.5	9	12.0	8	45.4	12.6	7.6	42	9	25.5	9	27.1	8	59.7	12.6	7.9
43	9	10.7	9	12.3	8	45.7	12.9	7.8	43	9	25.8	9	27.3	8	60.0	12.9	8.0
44	9	11.0	9	12.5	8	45.9	13.2	8.0	44	9	26.0	9	27.6	9	00.2	13.2	8.2
45	9	11.2	9	12.8	8	46.1	13.5	8.2	45	9	26.3	9	27.8	9	00.5	13.5	8.4
46	9	11.5	9	13.0	8	46.4	13.8	8.4	46	9	26.5	9	28.1	9	00.7	13.8	8.6
47	9	11.8	9	13.3	8	46.6	14.1	8.6	47	9	26.8	9	28.3	9	00.9	14.1	8.8
48	9	12.0	9	13.5	8	46.9	14.4	8.7	48	9	27.0	9	28.6	9	01.2	14.4	9.0
49	9	12.2	9	13.8	8	47.1	14.7	8.9	49	9	27.3	9	28.8	9	01.4	14.7	9.2
50	9	12.5	9	14.0	8	47.3	15.0	9.1	50	9	27.5	9	29.1	9	01.6	15.0	9.4
51	9	12.8	9	14.3	8	47.6	15.3	9.3	51	9	27.8	9	29.3	9	01.9	15.3	9.5
52	9	13.0	9	14.5	8	47.8	15.6	9.5	52	9	28.0	9	29.6	9	02.1	15.6	9.7
53	9	13.3	9	14.8	8	48.0	15.9	9.6	53	9	28.3	9	29.8	9	02.4	15.9	9.9
54	9	13.5	9	15.0	8	48.3	16.2	9.8	54	9	28.5	9	30.1	9	02.6	16.2	10.1
55	9	13.8	9	15.3	8	48.5	16.5	10.0	55	9	28.8	9	30.3	9	02.8	16.5	10.3
56	9	14.0	9	15.5	8	48.8	16.8	10.2	56	9	29.0	9	30.6	9	03.1	16.8	10.5
57	9	14.3	9	15.8	8	49.0	17.1	10.4	57	9	29.3	9	30.8	9	03.3	17.1	10.7
58	9	14.5	9	16.0	8	49.2	17.4	10.6	58	9	29.5	9	31.1	9	03.6	17.4	10.9
59	9	14.8	9	16.3	8	49.5	17.7	10.7	59	9	29.8	9	31.3	9	03.8	17.7	11.0

38 min

Schalttafel

39 min

38 min	Zuwachs Grt					39 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'				
0	9	30.0	9	31.6	9	04.0	0.0	0.0	0	9	45.0	9	46.6	9	18.4	0.0	0.0
1	9	30.3	9	31.8	9	04.3	0.3	0.2	1	9	45.3	9	46.9	9	18.6	0.3	0.2
2	9	30.5	9	32.1	9	04.5	0.6	0.4	2	9	45.5	9	47.1	9	18.8	0.6	0.4
3	9	30.8	9	32.3	9	04.7	0.9	0.6	3	9	45.8	9	47.4	9	19.1	0.9	0.6
4	9	31.0	9	32.6	9	05.0	1.2	0.8	4	9	46.0	9	47.6	9	19.3	1.2	0.8
5	9	31.2	9	32.8	9	05.2	1.5	1.0	5	9	46.3	9	47.9	9	19.5	1.5	1.0
6	9	31.5	9	33.1	9	05.5	1.8	1.2	6	9	46.5	9	48.1	9	19.8	1.8	1.2
7	9	31.7	9	33.3	9	05.7	2.1	1.3	7	9	46.8	9	48.4	9	20.0	2.1	1.4
8	9	32.0	9	33.6	9	05.9	2.4	1.5	8	9	47.0	9	48.6	9	20.3	2.4	1.6
9	9	32.2	9	33.8	9	06.2	2.7	1.7	9	9	47.3	9	48.9	9	20.5	2.7	1.8
10	9	32.5	9	34.1	9	06.4	3.0	1.9	10	9	47.5	9	49.1	9	20.7	3.0	2.0
11	9	32.8	9	34.3	9	06.7	3.3	2.1	11	9	47.8	9	49.4	9	21.0	3.3	2.2
12	9	33.0	9	34.6	9	06.9	3.6	2.3	12	9	48.0	9	49.6	9	21.2	3.6	2.4
13	9	33.3	9	34.8	9	07.1	3.9	2.5	13	9	48.3	9	49.9	9	21.5	3.9	2.6
14	9	33.5	9	35.1	9	07.4	4.2	2.7	14	9	48.5	9	50.1	9	21.7	4.2	2.8
15	9	33.8	9	35.3	9	07.6	4.5	2.9	15	9	48.8	9	50.4	9	21.9	4.5	3.0
16	9	34.0	9	35.6	9	07.9	4.8	3.1	16	9	49.0	9	50.6	9	22.2	4.8	3.2
17	9	34.3	9	35.8	9	08.1	5.1	3.3	17	9	49.3	9	50.9	9	22.4	5.1	3.4
18	9	34.5	9	36.1	9	08.3	5.4	3.5	18	9	49.5	9	51.1	9	22.6	5.4	3.5
19	9	34.8	9	36.3	9	08.6	5.7	3.7	19	9	49.8	9	51.4	9	22.9	5.7	3.7
20	9	35.0	9	36.6	9	08.8	6.0	3.8	20	9	50.0	9	51.6	9	23.1	6.0	3.9
21	9	35.3	9	36.8	9	09.0	6.3	4.0	21	9	50.3	9	51.9	9	23.4	6.3	4.1
22	9	35.5	9	37.1	9	09.3	6.6	4.2	22	9	50.5	9	52.1	9	23.6	6.6	4.3
23	9	35.8	9	37.3	9	09.5	6.9	4.4	23	9	50.8	9	52.4	9	23.8	6.9	4.5
24	9	36.0	9	37.6	9	09.8	7.2	4.6	24	9	51.0	9	52.6	9	24.1	7.2	4.7
25	9	36.3	9	37.9	9	10.0	7.5	4.8	25	9	51.3	9	52.9	9	24.3	7.5	4.9
26	9	36.5	9	38.1	9	10.2	7.8	5.0	26	9	51.5	9	53.1	9	24.6	7.8	5.1
27	9	36.7	9	38.4	9	10.5	8.1	5.2	27	9	51.7	9	53.4	9	24.8	8.1	5.3
28	9	37.0	9	38.6	9	10.7	8.4	5.4	28	9	52.0	9	53.6	9	25.0	8.4	5.5
29	9	37.3	9	38.9	9	11.0	8.7	5.6	29	9	52.3	9	53.9	9	25.3	8.7	5.7
30	9	37.5	9	39.1	9	11.2	9.0	5.8	30	9	52.5	9	54.1	9	25.5	9.0	5.9
31	9	37.8	9	39.4	9	11.4	9.3	6.0	31	9	52.8	9	54.4	9	25.7	9.3	6.1
32	9	38.0	9	39.6	9	11.7	9.6	6.1	32	9	53.0	9	54.6	9	26.0	9.6	6.3
33	9	38.3	9	39.9	9	11.9	9.9	6.3	33	9	53.3	9	54.9	9	26.2	9.9	6.5
34	9	38.5	9	40.1	9	12.1	10.2	6.5	34	9	53.5	9	55.1	9	26.5	10.2	6.7
35	9	38.7	9	40.4	9	12.4	10.5	6.7	35	9	53.8	9	55.4	9	26.7	10.5	6.9
36	9	39.0	9	40.6	9	12.6	10.8	6.9	36	9	54.0	9	55.7	9	26.9	10.8	7.1
37	9	39.3	9	40.9	9	12.9	11.1	7.1	37	9	54.3	9	55.9	9	27.2	11.1	7.3
38	9	39.5	9	41.1	9	13.1	11.4	7.3	38	9	54.5	9	56.2	9	27.4	11.4	7.5
39	9	39.8	9	41.4	9	13.3	11.7	7.5	39	9	54.8	9	56.4	9	27.7	11.7	7.7
40	9	40.0	9	41.6	9	13.6	12.0	7.7	40	9	55.0	9	56.7	9	27.9	12.0	7.9
41	9	40.3	9	41.9	9	13.8	12.3	7.9	41	9	55.3	9	56.9	9	28.1	12.3	8.1
42	9	40.5	9	42.1	9	14.1	12.6	8.1	42	9	55.5	9	57.2	9	28.4	12.6	8.3
43	9	40.7	9	42.4	9	14.3	12.9	8.3	43	9	55.8	9	57.4	9	28.6	12.9	8.5
44	9	41.0	9	42.6	9	14.5	13.2	8.5	44	9	56.0	9	57.7	9	28.8	13.2	8.7
45	9	41.2	9	42.9	9	14.8	13.5	8.6	45	9	56.3	9	57.9	9	29.1	13.5	8.9
46	9	41.5	9	43.1	9	15.0	13.8	8.8	46	9	56.5	9	58.2	9	29.3	13.8	9.1
47	9	41.8	9	43.4	9	15.2	14.1	9.0	47	9	56.8	9	58.4	9	29.6	14.1	9.3
48	9	42.0	9	43.6	9	15.5	14.4	9.2	48	9	57.0	9	58.7	9	29.8	14.4	9.5
49	9	42.2	9	43.9	9	15.7	14.7	9.4	49	9	57.3	9	58.9	9	30.0	14.7	9.7
50	9	42.5	9	44.1	9	16.0	15.0	9.6	50	9	57.5	9	59.2	9	30.3	15.0	9.9
51	9	42.7	9	44.4	9	16.2	15.3	9.8	51	9	57.8	9	59.4	9	30.5	15.3	10.1
52	9	43.0	9	44.6	9	16.4	15.6	10.0	52	9	58.0	9	59.7	9	30.8	15.6	10.3
53	9	43.3	9	44.9	9	16.7	15.9	10.2	53	9	58.3	9	59.9	9	31.0	15.9	10.5
54	9	43.5	9	45.1	9	16.9	16.2	10.4	54	9	58.5	10	00.2	9	31.2	16.2	10.6
55	9	43.8	9	45.4	9	17.2	16.5	10.6	55	9	58.8	10	00.4	9	31.5	16.5	10.8
56	9	44.0	9	45.6	9	17.4	16.8	10.8	56	9	59.0	10	00.7	9	31.7	16.8	11.0
57	9	44.3	9	45.9	9	17.6	17.1	11.0	57	9	59.3	10	00.9	9	32.0	17.1	11.2
58	9	44.5	9	46.1	9	17.9	17.4	11.1	58	9	59.5	10	01.2	9	32.2	17.4	11.4
59	9	44.8	9	46.4	9	18.1	17.7	11.3	59	9	59.8	10	01.4	9	32.4	17.7	11.6

40 min

Schalttafel

41 min

40 min	Zuwachs Grt					41 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	'	'	'	'	'	'			
0	10	00.0	10	01.7	9	32.7	0.0	0.0	0	10	15.0	10	16.7	9	47.0	0.0	0.0
1	10	00.2	10	01.9	9	32.9	0.3	0.2	1	10	15.3	10	17.0	9	47.2	0.3	0.2
2	10	00.5	10	02.2	9	33.1	0.6	0.4	2	10	15.5	10	17.2	9	47.5	0.6	0.4
3	10	00.7	10	02.4	9	33.4	0.9	0.6	3	10	15.8	10	17.5	9	47.7	0.9	0.6
4	10	01.0	10	02.7	9	33.6	1.2	0.8	4	10	16.0	10	17.7	9	47.9	1.2	0.8
5	10	01.2	10	02.9	9	33.9	1.5	1.0	5	10	16.3	10	18.0	9	48.2	1.5	1.0
6	10	01.5	10	03.2	9	34.1	1.8	1.2	6	10	16.5	10	18.2	9	48.4	1.8	1.2
7	10	01.7	10	03.4	9	34.3	2.1	1.4	7	10	16.8	10	18.5	9	48.7	2.1	1.5
8	10	02.0	10	03.7	9	34.6	2.4	1.6	8	10	17.0	10	18.7	9	48.9	2.4	1.7
9	10	02.2	10	03.9	9	34.8	2.7	1.8	9	10	17.3	10	19.0	9	49.1	2.7	1.9
10	10	02.5	10	04.2	9	35.1	3.0	2.0	10	10	17.5	10	19.2	9	49.4	3.0	2.1
11	10	02.7	10	04.4	9	35.3	3.3	2.2	11	10	17.8	10	19.5	9	49.6	3.3	2.3
12	10	03.0	10	04.7	9	35.5	3.6	2.4	12	10	18.0	10	19.7	9	49.8	3.6	2.5
13	10	03.3	10	04.9	9	35.8	3.9	2.6	13	10	18.3	10	20.0	9	50.1	3.9	2.7
14	10	03.5	10	05.2	9	36.0	4.2	2.8	14	10	18.5	10	20.2	9	50.3	4.2	2.9
15	10	03.8	10	05.4	9	36.2	4.5	3.0	15	10	18.8	10	20.5	9	50.6	4.5	3.1
16	10	04.0	10	05.7	9	36.5	4.8	3.2	16	10	19.0	10	20.7	9	50.8	4.8	3.3
17	10	04.2	10	05.9	9	36.7	5.1	3.4	17	10	19.3	10	21.0	9	51.0	5.1	3.5
18	10	04.5	10	06.2	9	37.0	5.4	3.6	18	10	19.5	10	21.2	9	51.3	5.4	3.7
19	10	04.8	10	06.4	9	37.2	5.7	3.8	19	10	19.8	10	21.5	9	51.5	5.7	3.9
20	10	05.0	10	06.7	9	37.4	6.0	4.0	20	10	20.0	10	21.7	9	51.8	6.0	4.1
21	10	05.3	10	06.9	9	37.7	6.3	4.2	21	10	20.3	10	22.0	9	52.0	6.3	4.4
22	10	05.5	10	07.2	9	37.9	6.6	4.4	22	10	20.5	10	22.2	9	52.2	6.6	4.6
23	10	05.7	10	07.4	9	38.2	6.9	4.7	23	10	20.8	10	22.5	9	52.5	6.9	4.8
24	10	06.0	10	07.7	9	38.4	7.2	4.9	24	10	21.0	10	22.7	9	52.7	7.2	5.0
25	10	06.2	10	07.9	9	38.6	7.5	5.1	25	10	21.3	10	23.0	9	52.9	7.5	5.2
26	10	06.5	10	08.2	9	38.9	7.8	5.3	26	10	21.5	10	23.2	9	53.2	7.8	5.4
27	10	06.7	10	08.4	9	39.1	8.1	5.5	27	10	21.7	10	23.5	9	53.4	8.1	5.6
28	10	07.0	10	08.7	9	39.3	8.4	5.7	28	10	22.0	10	23.7	9	53.7	8.4	5.8
29	10	07.3	10	08.9	9	39.6	8.7	5.9	29	10	22.3	10	24.0	9	53.9	8.7	6.0
30	10	07.5	10	09.2	9	39.8	9.0	6.1	30	10	22.5	10	24.2	9	54.1	9.0	6.2
31	10	07.7	10	09.4	9	40.1	9.3	6.3	31	10	22.8	10	24.5	9	54.4	9.3	6.4
32	10	08.0	10	09.7	9	40.3	9.6	6.5	32	10	23.0	10	24.7	9	54.6	9.6	6.6
33	10	08.2	10	09.9	9	40.5	9.9	6.7	33	10	23.3	10	25.0	9	54.9	9.9	6.8
34	10	08.5	10	10.2	9	40.8	10.2	6.9	34	10	23.5	10	25.2	9	55.1	10.2	7.0
35	10	08.7	10	10.4	9	41.0	10.5	7.1	35	10	23.7	10	25.5	9	55.3	10.5	7.3
36	10	09.0	10	10.7	9	41.3	10.8	7.3	36	10	24.0	10	25.7	9	55.6	10.8	7.5
37	10	09.3	10	10.9	9	41.5	11.1	7.5	37	10	24.3	10	26.0	9	55.8	11.1	7.7
38	10	09.5	10	11.2	9	41.7	11.4	7.7	38	10	24.5	10	26.2	9	56.1	11.4	7.9
39	10	09.7	10	11.4	9	42.0	11.7	7.9	39	10	24.8	10	26.5	9	56.3	11.7	8.1
40	10	10.0	10	11.7	9	42.2	12.0	8.1	40	10	25.0	10	26.7	9	56.5	12.0	8.3
41	10	10.3	10	11.9	9	42.4	12.3	8.3	41	10	25.3	10	27.0	9	56.8	12.3	8.5
42	10	10.5	10	12.2	9	42.7	12.6	8.5	42	10	25.5	10	27.2	9	57.0	12.6	8.7
43	10	10.7	10	12.4	9	42.9	12.9	8.7	43	10	25.8	10	27.5	9	57.2	12.9	8.9
44	10	11.0	10	12.7	9	43.2	13.2	8.9	44	10	26.0	10	27.7	9	57.5	13.2	9.1
45	10	11.2	10	12.9	9	43.4	13.5	9.1	45	10	26.3	10	28.0	9	57.7	13.5	9.3
46	10	11.5	10	13.2	9	43.6	13.8	9.3	46	10	26.5	10	28.2	9	58.0	13.8	9.5
47	10	11.8	10	13.4	9	43.9	14.1	9.5	47	10	26.8	10	28.5	9	58.2	14.1	9.7
48	10	12.0	10	13.7	9	44.1	14.4	9.7	48	10	27.0	10	28.7	9	58.4	14.4	10.0
49	10	12.2	10	14.0	9	44.4	14.7	9.9	49	10	27.3	10	29.0	9	58.7	14.7	10.2
50	10	12.5	10	14.2	9	44.6	15.0	10.1	50	10	27.5	10	29.2	9	58.9	15.0	10.4
51	10	12.7	10	14.5	9	44.8	15.3	10.3	51	10	27.8	10	29.5	9	59.2	15.3	10.6
52	10	13.0	10	14.7	9	45.1	15.6	10.5	52	10	28.0	10	29.7	9	59.4	15.6	10.8
53	10	13.2	10	15.0	9	45.3	15.9	10.7	53	10	28.3	10	30.0	9	59.6	15.9	11.0
54	10	13.5	10	15.2	9	45.6	16.2	10.9	54	10	28.5	10	30.2	9	59.9	16.2	11.2
55	10	13.8	10	15.5	9	45.8	16.5	11.1	55	10	28.8	10	30.5	10	00.1	16.5	11.4
56	10	14.0	10	15.7	9	46.0	16.8	11.3	56	10	29.0	10	30.7	10	00.3	16.8	11.6
57	10	14.3	10	16.0	9	46.3	17.1	11.5	57	10	29.3	10	31.0	10	00.6	17.1	11.8
58	10	14.5	10	16.2	9	46.5	17.4	11.7	58	10	29.5	10	31.2	10	00.8	17.4	12.0
59	10	14.8	10	16.5	9	46.7	17.7	11.9	59	10	29.8	10	31.5	10	01.1	17.7	12.2

42 min

Schalttafel

43 min

42 min	Zuwachs Grt					43 min	Zuwachs Grt				
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb
s	° ' "	° ' "	° ' "	' "	' "	s	° ' "	° ' "	° ' "	' "	' "
0	10 30.0	10 31.7	10 01.3	0.0	0.0	0	10 45.0	10 46.8	10 15.6	0.0	0.0
1	10 30.3	10 32.0	10 01.5	0.3	0.2	1	10 45.3	10 47.0	10 15.9	0.3	0.2
2	10 30.5	10 32.3	10 01.8	0.6	0.4	2	10 45.5	10 47.3	10 16.1	0.6	0.4
3	10 30.8	10 32.5	10 02.0	0.9	0.6	3	10 45.8	10 47.5	10 16.3	0.9	0.7
4	10 31.0	10 32.8	10 02.3	1.2	0.8	4	10 46.0	10 47.8	10 16.6	1.2	0.9
5	10 31.2	10 33.0	10 02.5	1.5	1.1	5	10 46.3	10 48.0	10 16.8	1.5	1.1
6	10 31.5	10 33.3	10 02.7	1.8	1.3	6	10 46.5	10 48.3	10 17.0	1.8	1.3
7	10 31.7	10 33.5	10 03.0	2.1	1.5	7	10 46.8	10 48.5	10 17.3	2.1	1.5
8	10 32.0	10 33.8	10 03.2	2.4	1.7	8	10 47.0	10 48.8	10 17.5	2.4	1.7
9	10 32.2	10 34.0	10 03.4	2.7	1.9	9	10 47.3	10 49.0	10 17.8	2.7	2.0
10	10 32.5	10 34.3	10 03.7	3.0	2.1	10	10 47.5	10 49.3	10 18.0	3.0	2.2
11	10 32.8	10 34.5	10 03.9	3.3	2.3	11	10 47.8	10 49.5	10 18.2	3.3	2.4
12	10 33.0	10 34.8	10 04.2	3.6	2.5	12	10 48.0	10 49.8	10 18.5	3.6	2.6
13	10 33.2	10 35.0	10 04.4	3.9	2.8	13	10 48.3	10 50.1	10 18.7	3.9	2.8
14	10 33.5	10 35.3	10 04.6	4.2	3.0	14	10 48.5	10 50.3	10 19.0	4.2	3.0
15	10 33.8	10 35.5	10 04.9	4.5	3.2	15	10 48.8	10 50.6	10 19.2	4.5	3.3
16	10 34.0	10 35.8	10 05.1	4.8	3.4	16	10 49.0	10 50.8	10 19.4	4.8	3.5
17	10 34.3	10 36.0	10 05.4	5.1	3.6	17	10 49.3	10 51.1	10 19.7	5.1	3.7
18	10 34.5	10 36.3	10 05.6	5.4	3.8	18	10 49.5	10 51.3	10 19.9	5.4	3.9
19	10 34.8	10 36.5	10 05.8	5.7	4.0	19	10 49.8	10 51.6	10 20.2	5.7	4.1
20	10 35.0	10 36.8	10 06.1	6.0	4.2	20	10 50.0	10 51.8	10 20.4	6.0	4.3
21	10 35.3	10 37.0	10 06.3	6.3	4.5	21	10 50.3	10 52.1	10 20.6	6.3	4.6
22	10 35.5	10 37.3	10 06.5	6.6	4.7	22	10 50.5	10 52.3	10 20.9	6.6	4.8
23	10 35.8	10 37.5	10 06.8	6.9	4.9	23	10 50.8	10 52.6	10 21.1	6.9	5.0
24	10 36.0	10 37.8	10 07.0	7.2	5.1	24	10 51.0	10 52.8	10 21.3	7.2	5.2
25	10 36.3	10 38.0	10 07.3	7.5	5.3	25	10 51.3	10 53.1	10 21.6	7.5	5.4
26	10 36.5	10 38.3	10 07.5	7.8	5.5	26	10 51.5	10 53.3	10 21.8	7.8	5.7
27	10 36.7	10 38.5	10 07.7	8.1	5.7	27	10 51.7	10 53.6	10 22.1	8.1	5.9
28	10 37.0	10 38.8	10 08.0	8.4	5.9	28	10 52.0	10 53.8	10 22.3	8.4	6.1
29	10 37.3	10 39.0	10 08.2	8.7	6.2	29	10 52.3	10 54.1	10 22.5	8.7	6.3
30	10 37.5	10 39.3	10 08.5	9.0	6.4	30	10 52.5	10 54.3	10 22.8	9.0	6.5
31	10 37.8	10 39.5	10 08.7	9.3	6.6	31	10 52.8	10 54.6	10 23.0	9.3	6.7
32	10 38.0	10 39.8	10 08.9	9.6	6.8	32	10 53.0	10 54.8	10 23.3	9.6	7.0
33	10 38.3	10 40.0	10 09.2	9.9	7.0	33	10 53.3	10 55.1	10 23.5	9.9	7.2
34	10 38.5	10 40.3	10 09.4	10.2	7.2	34	10 53.5	10 55.3	10 23.7	10.2	7.4
35	10 38.7	10 40.5	10 09.7	10.5	7.4	35	10 53.7	10 55.6	10 24.0	10.5	7.6
36	10 39.0	10 40.8	10 09.9	10.8	7.6	36	10 54.0	10 55.8	10 24.2	10.8	7.8
37	10 39.3	10 41.0	10 10.1	11.1	7.9	37	10 54.3	10 56.1	10 24.4	11.1	8.0
38	10 39.5	10 41.3	10 10.4	11.4	8.1	38	10 54.5	10 56.3	10 24.7	11.4	8.3
39	10 39.8	10 41.5	10 10.6	11.7	8.3	39	10 54.8	10 56.6	10 24.9	11.7	8.5
40	10 40.0	10 41.8	10 10.8	12.0	8.5	40	10 55.0	10 56.8	10 25.2	12.0	8.7
41	10 40.3	10 42.0	10 11.1	12.3	8.7	41	10 55.3	10 57.1	10 25.4	12.3	8.9
42	10 40.5	10 42.3	10 11.3	12.6	8.9	42	10 55.5	10 57.3	10 25.6	12.6	9.1
43	10 40.7	10 42.5	10 11.6	12.9	9.1	43	10 55.8	10 57.6	10 25.9	12.9	9.3
44	10 41.0	10 42.8	10 11.8	13.2	9.3	44	10 56.0	10 57.8	10 26.1	13.2	9.6
45	10 41.2	10 43.0	10 12.0	13.5	9.6	45	10 56.3	10 58.1	10 26.4	13.5	9.8
46	10 41.5	10 43.3	10 12.3	13.8	9.8	46	10 56.5	10 58.3	10 26.6	13.8	10.0
47	10 41.8	10 43.5	10 12.5	14.1	10.0	47	10 56.8	10 58.6	10 26.8	14.1	10.2
48	10 42.0	10 43.8	10 12.8	14.4	10.2	48	10 57.0	10 58.8	10 27.1	14.4	10.4
49	10 42.2	10 44.0	10 13.0	14.7	10.4	49	10 57.3	10 59.1	10 27.3	14.7	10.7
50	10 42.5	10 44.3	10 13.2	15.0	10.6	50	10 57.5	10 59.3	10 27.5	15.0	10.9
51	10 42.7	10 44.5	10 13.5	15.3	10.8	51	10 57.8	10 59.6	10 27.8	15.3	11.1
52	10 43.0	10 44.8	10 13.7	15.6	11.0	52	10 58.0	10 59.8	10 28.0	15.6	11.3
53	10 43.2	10 45.0	10 13.9	15.9	11.3	53	10 58.3	11 00.1	10 28.3	15.9	11.5
54	10 43.5	10 45.3	10 14.2	16.2	11.5	54	10 58.5	11 00.3	10 28.5	16.2	11.7
55	10 43.7	10 45.5	10 14.4	16.5	11.7	55	10 58.8	11 00.6	10 28.7	16.5	12.0
56	10 44.0	10 45.8	10 14.7	16.8	11.9	56	10 59.0	11 00.8	10 29.0	16.8	12.2
57	10 44.3	10 46.0	10 14.9	17.1	12.1	57	10 59.3	11 01.1	10 29.2	17.1	12.4
58	10 44.5	10 46.3	10 15.1	17.4	12.3	58	10 59.5	11 01.3	10 29.5	17.4	12.6
59	10 44.8	10 46.5	10 15.4	17.7	12.5	59	10 59.8	11 01.6	10 29.7	17.7	12.8

44 min

Schalttafel

45 min

44 min	Zuwachs Grt					45 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	s	o	'	o	'	o	'	'	'
0	11	00.0	11	01.8	10	29.9	0.0	0.0	0	11	15.0	11	16.9	10	44.3	0.0	0.0
1	11	00.2	11	02.1	10	30.2	0.3	0.2	1	11	15.3	11	17.1	10	44.5	0.3	0.2
2	11	00.5	11	02.3	10	30.4	0.6	0.4	2	11	15.5	11	17.4	10	44.7	0.6	0.5
3	11	00.7	11	02.6	10	30.6	0.9	0.7	3	11	15.8	11	17.6	10	45.0	0.9	0.7
4	11	01.0	11	02.8	10	30.9	1.2	0.9	4	11	16.0	11	17.9	10	45.2	1.2	0.9
5	11	01.2	11	03.1	10	31.1	1.5	1.1	5	11	16.3	11	18.1	10	45.4	1.5	1.1
6	11	01.5	11	03.3	10	31.4	1.8	1.3	6	11	16.5	11	18.4	10	45.7	1.8	1.4
7	11	01.7	11	03.6	10	31.6	2.1	1.6	7	11	16.8	11	18.6	10	45.9	2.1	1.6
8	11	02.0	11	03.8	10	31.8	2.4	1.8	8	11	17.0	11	18.9	10	46.2	2.4	1.8
9	11	02.2	11	04.1	10	32.1	2.7	2.0	9	11	17.3	11	19.1	10	46.4	2.7	2.0
10	11	02.5	11	04.3	10	32.3	3.0	2.2	10	11	17.5	11	19.4	10	46.6	3.0	2.3
11	11	02.7	11	04.6	10	32.6	3.3	2.4	11	11	17.8	11	19.6	10	46.9	3.3	2.5
12	11	03.0	11	04.8	10	32.8	3.6	2.7	12	11	18.0	11	19.9	10	47.1	3.6	2.7
13	11	03.2	11	05.1	10	33.0	3.9	2.9	13	11	18.3	11	20.1	10	47.4	3.9	3.0
14	11	03.5	11	05.3	10	33.3	4.2	3.1	14	11	18.5	11	20.4	10	47.6	4.2	3.2
15	11	03.7	11	05.6	10	33.5	4.5	3.3	15	11	18.8	11	20.6	10	47.8	4.5	3.4
16	11	04.0	11	05.8	10	33.8	4.8	3.6	16	11	19.0	11	20.9	10	48.1	4.8	3.6
17	11	04.2	11	06.1	10	34.0	5.1	3.8	17	11	19.3	11	21.1	10	48.3	5.1	3.9
18	11	04.5	11	06.3	10	34.2	5.4	4.0	18	11	19.5	11	21.4	10	48.5	5.4	4.1
19	11	04.7	11	06.6	10	34.5	5.7	4.2	19	11	19.8	11	21.6	10	48.8	5.7	4.3
20	11	05.0	11	06.8	10	34.7	6.0	4.4	20	11	20.0	11	21.9	10	49.0	6.0	4.6
21	11	05.3	11	07.1	10	34.9	6.3	4.7	21	11	20.3	11	22.1	10	49.3	6.3	4.8
22	11	05.5	11	07.3	10	35.2	6.6	4.9	22	11	20.5	11	22.4	10	49.5	6.6	5.0
23	11	05.7	11	07.6	10	35.4	6.9	5.1	23	11	20.8	11	22.6	10	49.7	6.9	5.2
24	11	06.0	11	07.9	10	35.7	7.2	5.3	24	11	21.0	11	22.9	10	50.0	7.2	5.5
25	11	06.2	11	08.1	10	35.9	7.5	5.6	25	11	21.3	11	23.1	10	50.2	7.5	5.7
26	11	06.5	11	08.4	10	36.1	7.8	5.8	26	11	21.5	11	23.4	10	50.5	7.8	5.9
27	11	06.7	11	08.6	10	36.4	8.1	6.0	27	11	21.7	11	23.6	10	50.7	8.1	6.1
28	11	07.0	11	08.9	10	36.6	8.4	6.2	28	11	22.0	11	23.9	10	50.9	8.4	6.4
29	11	07.3	11	09.1	10	36.9	8.7	6.5	29	11	22.3	11	24.1	10	51.2	8.7	6.6
30	11	07.5	11	09.4	10	37.1	9.0	6.7	30	11	22.5	11	24.4	10	51.4	9.0	6.8
31	11	07.7	11	09.6	10	37.3	9.3	6.9	31	11	22.8	11	24.6	10	51.6	9.3	7.1
32	11	08.0	11	09.9	10	37.6	9.6	7.1	32	11	23.0	11	24.9	10	51.9	9.6	7.3
33	11	08.2	11	10.1	10	37.8	9.9	7.3	33	11	23.3	11	25.1	10	52.1	9.9	7.5
34	11	08.5	11	10.4	10	38.0	10.2	7.6	34	11	23.5	11	25.4	10	52.4	10.2	7.7
35	11	08.7	11	10.6	10	38.3	10.5	7.8	35	11	23.7	11	25.6	10	52.6	10.5	8.0
36	11	09.0	11	10.9	10	38.5	10.8	8.0	36	11	24.0	11	25.9	10	52.8	10.8	8.2
37	11	09.3	11	11.1	10	38.8	11.1	8.2	37	11	24.3	11	26.2	10	53.1	11.1	8.4
38	11	09.5	11	11.4	10	39.0	11.4	8.5	38	11	24.5	11	26.4	10	53.3	11.4	8.6
39	11	09.7	11	11.6	10	39.2	11.7	8.7	39	11	24.8	11	26.7	10	53.6	11.7	8.9
40	11	10.0	11	11.9	10	39.5	12.0	8.9	40	11	25.0	11	26.9	10	53.8	12.0	9.1
41	11	10.3	11	12.1	10	39.7	12.3	9.1	41	11	25.3	11	27.2	10	54.0	12.3	9.3
42	11	10.5	11	12.4	10	40.0	12.6	9.3	42	11	25.5	11	27.4	10	54.3	12.6	9.6
43	11	10.7	11	12.6	10	40.2	12.9	9.6	43	11	25.8	11	27.7	10	54.5	12.9	9.8
44	11	11.0	11	12.9	10	40.4	13.2	9.8	44	11	26.0	11	27.9	10	54.7	13.2	10.0
45	11	11.2	11	13.1	10	40.7	13.5	10.0	45	11	26.3	11	28.2	10	55.0	13.5	10.2
46	11	11.5	11	13.4	10	40.9	13.8	10.2	46	11	26.5	11	28.4	10	55.2	13.8	10.5
47	11	11.8	11	13.6	10	41.1	14.1	10.5	47	11	26.8	11	28.7	10	55.5	14.1	10.7
48	11	12.0	11	13.9	10	41.4	14.4	10.7	48	11	27.0	11	28.9	10	55.7	14.4	10.9
49	11	12.2	11	14.1	10	41.6	14.7	10.9	49	11	27.3	11	29.2	10	55.9	14.7	11.1
50	11	12.5	11	14.4	10	41.9	15.0	11.1	50	11	27.5	11	29.4	10	56.2	15.0	11.4
51	11	12.7	11	14.6	10	42.1	15.3	11.3	51	11	27.8	11	29.7	10	56.4	15.3	11.6
52	11	13.0	11	14.9	10	42.3	15.6	11.6	52	11	28.0	11	29.9	10	56.7	15.6	11.8
53	11	13.2	11	15.1	10	42.6	15.9	11.8	53	11	28.3	11	30.2	10	56.9	15.9	12.1
54	11	13.5	11	15.4	10	42.8	16.2	12.0	54	11	28.5	11	30.4	10	57.1	16.2	12.3
55	11	13.7	11	15.6	10	43.1	16.5	12.2	55	11	28.8	11	30.7	10	57.4	16.5	12.5
56	11	14.0	11	15.9	10	43.3	16.8	12.5	56	11	29.0	11	30.9	10	57.6	16.8	12.7
57	11	14.2	11	16.1	10	43.5	17.1	12.7	57	11	29.3	11	31.2	10	57.9	17.1	13.0
58	11	14.5	11	16.4	10	43.8	17.4	12.9	58	11	29.5	11	31.4	10	58.1	17.4	13.2
59	11	14.8	11	16.6	10	44.0	17.7	13.1	59	11	29.8	11	31.7	10	58.3	17.7	13.4

46 min

Schalttafel

47 min

46 min	Zuwachs Grt					47 min	Zuwachs Grt				
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb
s	° ' "	° ' "	° ' "	' "	' "	s	° ' "	° ' "	° ' "	' "	' "
0	11 30.0	11 31.9	10 58.6	0.0	0.0	0	11 45.0	11 47.0	11 12.9	0.0	0.0
1	11 30.3	11 32.2	10 58.8	0.3	0.2	1	11 45.3	11 47.2	11 13.1	0.3	0.2
2	11 30.5	11 32.4	10 59.0	0.6	0.5	2	11 45.5	11 47.5	11 13.4	0.6	0.5
3	11 30.8	11 32.7	10 59.3	0.9	0.7	3	11 45.8	11 47.7	11 13.6	0.9	0.7
4	11 31.0	11 32.9	10 59.5	1.2	0.9	4	11 46.0	11 48.0	11 13.8	1.2	1.0
5	11 31.3	11 33.2	10 59.8	1.5	1.2	5	11 46.3	11 48.2	11 14.1	1.5	1.2
6	11 31.5	11 33.4	10 60.0	1.8	1.4	6	11 46.5	11 48.5	11 14.3	1.8	1.4
7	11 31.8	11 33.7	11 00.2	2.1	1.6	7	11 46.8	11 48.7	11 14.6	2.1	1.7
8	11 32.0	11 33.9	11 00.5	2.4	1.9	8	11 47.0	11 49.0	11 14.8	2.4	1.9
9	11 32.3	11 34.2	11 00.7	2.7	2.1	9	11 47.3	11 49.2	11 15.0	2.7	2.1
10	11 32.5	11 34.4	11 01.0	3.0	2.3	10	11 47.5	11 49.5	11 15.3	3.0	2.4
11	11 32.8	11 34.7	11 01.2	3.3	2.6	11	11 47.8	11 49.7	11 15.5	3.3	2.6
12	11 33.0	11 34.9	11 01.4	3.6	2.8	12	11 48.0	11 50.0	11 15.7	3.6	2.9
13	11 33.3	11 35.2	11 01.7	3.9	3.0	13	11 48.3	11 50.2	11 16.0	3.9	3.1
14	11 33.5	11 35.4	11 01.9	4.2	3.3	14	11 48.5	11 50.5	11 16.2	4.2	3.3
15	11 33.8	11 35.7	11 02.1	4.5	3.5	15	11 48.8	11 50.7	11 16.5	4.5	3.6
16	11 34.0	11 35.9	11 02.4	4.8	3.7	16	11 49.0	11 51.0	11 16.7	4.8	3.8
17	11 34.3	11 36.2	11 02.6	5.1	4.0	17	11 49.3	11 51.2	11 16.9	5.1	4.0
18	11 34.5	11 36.4	11 02.9	5.4	4.2	18	11 49.5	11 51.5	11 17.2	5.4	4.3
19	11 34.8	11 36.7	11 03.1	5.7	4.4	19	11 49.8	11 51.7	11 17.4	5.7	4.5
20	11 35.0	11 36.9	11 03.3	6.0	4.7	20	11 50.0	11 52.0	11 17.7	6.0	4.8
21	11 35.3	11 37.2	11 03.6	6.3	4.9	21	11 50.3	11 52.2	11 17.9	6.3	5.0
22	11 35.5	11 37.4	11 03.8	6.6	5.1	22	11 50.5	11 52.5	11 18.1	6.6	5.2
23	11 35.8	11 37.7	11 04.1	6.9	5.3	23	11 50.8	11 52.7	11 18.4	6.9	5.5
24	11 36.0	11 37.9	11 04.3	7.2	5.6	24	11 51.0	11 53.0	11 18.6	7.2	5.7
25	11 36.3	11 38.2	11 04.5	7.5	5.8	25	11 51.3	11 53.2	11 18.8	7.5	5.9
26	11 36.5	11 38.4	11 04.8	7.8	6.0	26	11 51.5	11 53.5	11 19.1	7.8	6.2
27	11 36.8	11 38.7	11 05.0	8.1	6.3	27	11 51.7	11 53.7	11 19.3	8.1	6.4
28	11 37.0	11 38.9	11 05.2	8.4	6.5	28	11 52.0	11 54.0	11 19.6	8.4	6.7
29	11 37.3	11 39.2	11 05.5	8.7	6.7	29	11 52.3	11 54.2	11 19.8	8.7	6.9
30	11 37.5	11 39.4	11 05.7	9.0	7.0	30	11 52.5	11 54.5	11 20.0	9.0	7.1
31	11 37.8	11 39.7	11 06.0	9.3	7.2	31	11 52.8	11 54.7	11 20.3	9.3	7.4
32	11 38.0	11 39.9	11 06.2	9.6	7.4	32	11 53.0	11 55.0	11 20.5	9.6	7.6
33	11 38.3	11 40.2	11 06.4	9.9	7.7	33	11 53.3	11 55.2	11 20.8	9.9	7.8
34	11 38.5	11 40.4	11 06.7	10.2	7.9	34	11 53.5	11 55.5	11 21.0	10.2	8.1
35	11 38.8	11 40.7	11 06.9	10.5	8.1	35	11 53.7	11 55.7	11 21.2	10.5	8.3
36	11 39.0	11 40.9	11 07.2	10.8	8.4	36	11 54.0	11 56.0	11 21.5	10.8	8.6
37	11 39.3	11 41.2	11 07.4	11.1	8.6	37	11 54.3	11 56.2	11 21.7	11.1	8.8
38	11 39.5	11 41.4	11 07.6	11.4	8.8	38	11 54.5	11 56.5	11 22.0	11.4	9.0
39	11 39.8	11 41.7	11 07.9	11.7	9.1	39	11 54.8	11 56.7	11 22.2	11.7	9.3
40	11 40.0	11 41.9	11 08.1	12.0	9.3	40	11 55.0	11 57.0	11 22.4	12.0	9.5
41	11 40.3	11 42.2	11 08.3	12.3	9.5	41	11 55.3	11 57.2	11 22.7	12.3	9.7
42	11 40.5	11 42.4	11 08.6	12.6	9.8	42	11 55.5	11 57.5	11 22.9	12.6	10.0
43	11 40.8	11 42.7	11 08.8	12.9	10.0	43	11 55.8	11 57.7	11 23.1	12.9	10.2
44	11 41.0	11 42.9	11 09.1	13.2	10.2	44	11 56.0	11 58.0	11 23.4	13.2	10.5
45	11 41.3	11 43.2	11 09.3	13.5	10.5	45	11 56.3	11 58.2	11 23.6	13.5	10.7
46	11 41.5	11 43.4	11 09.5	13.8	10.7	46	11 56.5	11 58.5	11 23.9	13.8	10.9
47	11 41.8	11 43.7	11 09.8	14.1	10.9	47	11 56.8	11 58.7	11 24.1	14.1	11.2
48	11 42.0	11 44.0	11 10.0	14.4	11.2	48	11 57.0	11 59.0	11 24.3	14.4	11.4
49	11 42.3	11 44.2	11 10.3	14.7	11.4	49	11 57.3	11 59.2	11 24.6	14.7	11.6
50	11 42.5	11 44.5	11 10.5	15.0	11.6	50	11 57.5	11 59.5	11 24.8	15.0	11.9
51	11 42.8	11 44.7	11 10.7	15.3	11.9	51	11 57.8	11 59.7	11 25.1	15.3	12.1
52	11 43.0	11 45.0	11 11.0	15.6	12.1	52	11 58.0	11 60.0	11 25.3	15.6	12.4
53	11 43.3	11 45.2	11 11.2	15.9	12.3	53	11 58.3	12 00.2	11 25.5	15.9	12.6
54	11 43.5	11 45.5	11 11.5	16.2	12.6	54	11 58.5	12 00.5	11 25.8	16.2	12.8
55	11 43.8	11 45.7	11 11.7	16.5	12.8	55	11 58.8	12 00.7	11 26.0	16.5	13.1
56	11 44.0	11 46.0	11 11.9	16.8	13.0	56	11 59.0	12 01.0	11 26.2	16.8	13.3
57	11 44.3	11 46.2	11 12.2	17.1	13.3	57	11 59.3	12 01.2	11 26.5	17.1	13.5
58	11 44.5	11 46.5	11 12.4	17.4	13.5	58	11 59.5	12 01.5	11 26.7	17.4	13.8
59	11 44.8	11 46.7	11 12.6	17.7	13.7	59	11 59.8	12 01.7	11 27.0	17.7	14.0

48 min

Schalttafel

49 min

48 min	Zuwachs Grt						49 min	Zuwachs Grt											
	Sonne Planet		Frühlp.		Mond			Unt		Vb		Sonne Planet		Frühlp.		Mond		Unt	
s	°	'	°	'	°	'	'	'	s	°	'	°	'	°	'	'	'		
0	12	00.0	12	02.0	11	27.2	0.0	0.0	0	12	15.0	12	17.0	11	41.5	0.0	0.0		
1	12	00.3	12	02.3	11	27.4	0.3	0.2	1	12	15.3	12	17.3	11	41.8	0.3	0.2		
2	12	00.5	12	02.5	11	27.7	0.6	0.5	2	12	15.5	12	17.5	11	42.0	0.6	0.5		
3	12	00.8	12	02.8	11	27.9	0.9	0.7	3	12	15.8	12	17.8	11	42.2	0.9	0.7		
4	12	01.0	12	03.0	11	28.2	1.2	1.0	4	12	16.0	12	18.0	11	42.5	1.2	1.0		
5	12	01.3	12	03.3	11	28.4	1.5	1.2	5	12	16.2	12	18.3	11	42.7	1.5	1.2		
6	12	01.5	12	03.5	11	28.6	1.8	1.5	6	12	16.5	12	18.5	11	42.9	1.8	1.5		
7	12	01.8	12	03.8	11	28.9	2.1	1.7	7	12	16.8	12	18.8	11	43.2	2.1	1.7		
8	12	02.0	12	04.0	11	29.1	2.4	1.9	8	12	17.0	12	19.0	11	43.4	2.4	2.0		
9	12	02.2	12	04.3	11	29.3	2.7	2.2	9	12	17.3	12	19.3	11	43.7	2.7	2.2		
10	12	02.5	12	04.5	11	29.6	3.0	2.4	10	12	17.5	12	19.5	11	43.9	3.0	2.5		
11	12	02.8	12	04.8	11	29.8	3.3	2.7	11	12	17.8	12	19.8	11	44.1	3.3	2.7		
12	12	03.0	12	05.0	11	30.1	3.6	2.9	12	12	18.0	12	20.0	11	44.4	3.6	3.0		
13	12	03.3	12	05.3	11	30.3	3.9	3.2	13	12	18.3	12	20.3	11	44.6	3.9	3.2		
14	12	03.5	12	05.5	11	30.5	4.2	3.4	14	12	18.5	12	20.6	11	44.9	4.2	3.5		
15	12	03.8	12	05.8	11	30.8	4.5	3.6	15	12	18.8	12	20.8	11	45.1	4.5	3.7		
16	12	04.0	12	06.0	11	31.0	4.8	3.9	16	12	19.0	12	21.1	11	45.3	4.8	4.0		
17	12	04.2	12	06.3	11	31.3	5.1	4.1	17	12	19.3	12	21.3	11	45.6	5.1	4.2		
18	12	04.5	12	06.5	11	31.5	5.4	4.4	18	12	19.5	12	21.6	11	45.8	5.4	4.5		
19	12	04.8	12	06.8	11	31.7	5.7	4.6	19	12	19.8	12	21.8	11	46.1	5.7	4.7		
20	12	05.0	12	07.0	11	32.0	6.0	4.9	20	12	20.0	12	22.1	11	46.3	6.0	5.0		
21	12	05.3	12	07.3	11	32.2	6.3	5.1	21	12	20.3	12	22.3	11	46.5	6.3	5.2		
22	12	05.5	12	07.5	11	32.4	6.6	5.3	22	12	20.5	12	22.6	11	46.8	6.6	5.5		
23	12	05.7	12	07.8	11	32.7	6.9	5.6	23	12	20.8	12	22.8	11	47.0	6.9	5.7		
24	12	06.0	12	08.0	11	32.9	7.2	5.8	24	12	21.0	12	23.1	11	47.2	7.2	5.9		
25	12	06.3	12	08.3	11	33.2	7.5	6.1	25	12	21.3	12	23.3	11	47.5	7.5	6.2		
26	12	06.5	12	08.5	11	33.4	7.8	6.3	26	12	21.5	12	23.6	11	47.7	7.8	6.4		
27	12	06.8	12	08.8	11	33.6	8.1	6.6	27	12	21.7	12	23.8	11	48.0	8.1	6.7		
28	12	07.0	12	09.0	11	33.9	8.4	6.8	28	12	22.0	12	24.1	11	48.2	8.4	6.9		
29	12	07.3	12	09.3	11	34.1	8.7	7.0	29	12	22.3	12	24.3	11	48.4	8.7	7.2		
30	12	07.5	12	09.5	11	34.4	9.0	7.3	30	12	22.5	12	24.6	11	48.7	9.0	7.4		
31	12	07.8	12	09.8	11	34.6	9.3	7.5	31	12	22.8	12	24.8	11	48.9	9.3	7.7		
32	12	08.0	12	10.0	11	34.8	9.6	7.8	32	12	23.0	12	25.1	11	49.2	9.6	7.9		
33	12	08.3	12	10.3	11	35.1	9.9	8.0	33	12	23.3	12	25.3	11	49.4	9.9	8.2		
34	12	08.5	12	10.5	11	35.3	10.2	8.3	34	12	23.5	12	25.6	11	49.6	10.2	8.4		
35	12	08.8	12	10.8	11	35.6	10.5	8.5	35	12	23.7	12	25.8	11	49.9	10.5	8.7		
36	12	09.0	12	11.0	11	35.8	10.8	8.7	36	12	24.0	12	26.1	11	50.1	10.8	8.9		
37	12	09.3	12	11.3	11	36.0	11.1	9.0	37	12	24.3	12	26.3	11	50.3	11.1	9.2		
38	12	09.5	12	11.5	11	36.3	11.4	9.2	38	12	24.5	12	26.6	11	50.6	11.4	9.4		
39	12	09.8	12	11.8	11	36.5	11.7	9.5	39	12	24.8	12	26.8	11	50.8	11.7	9.7		
40	12	10.0	12	12.0	11	36.7	12.0	9.7	40	12	25.0	12	27.1	11	51.1	12.0	9.9		
41	12	10.3	12	12.3	11	37.0	12.3	10.0	41	12	25.3	12	27.3	11	51.3	12.3	10.2		
42	12	10.5	12	12.5	11	37.2	12.6	10.2	42	12	25.5	12	27.6	11	51.5	12.6	10.4		
43	12	10.8	12	12.8	11	37.5	12.9	10.4	43	12	25.7	12	27.8	11	51.8	12.9	10.7		
44	12	11.0	12	13.0	11	37.7	13.2	10.7	44	12	26.0	12	28.1	11	52.0	13.2	10.9		
45	12	11.3	12	13.3	11	37.9	13.5	10.9	45	12	26.3	12	28.3	11	52.3	13.5	11.1		
46	12	11.5	12	13.5	11	38.2	13.8	11.2	46	12	26.5	12	28.6	11	52.5	13.8	11.4		
47	12	11.8	12	13.8	11	38.4	14.1	11.4	47	12	26.8	12	28.8	11	52.7	14.1	11.6		
48	12	12.0	12	14.0	11	38.7	14.4	11.6	48	12	27.0	12	29.1	11	53.0	14.4	11.9		
49	12	12.3	12	14.3	11	38.9	14.7	11.9	49	12	27.3	12	29.3	11	53.2	14.7	12.1		
50	12	12.5	12	14.5	11	39.1	15.0	12.1	50	12	27.5	12	29.6	11	53.4	15.0	12.4		
51	12	12.8	12	14.8	11	39.4	15.3	12.4	51	12	27.8	12	29.8	11	53.7	15.3	12.6		
52	12	13.0	12	15.0	11	39.6	15.6	12.6	52	12	28.0	12	30.1	11	53.9	15.6	12.9		
53	12	13.3	12	15.3	11	39.8	15.9	12.9	53	12	28.3	12	30.3	11	54.2	15.9	13.1		
54	12	13.5	12	15.5	11	40.1	16.2	13.1	54	12	28.5	12	30.6	11	54.4	16.2	13.4		
55	12	13.8	12	15.8	11	40.3	16.5	13.3	55	12	28.8	12	30.8	11	54.6	16.5	13.6		
56	12	14.0	12	16.0	11	40.6	16.8	13.6	56	12	29.0	12	31.1	11	54.9	16.8	13.9		
57	12	14.3	12	16.3	11	40.8	17.1	13.8	57	12	29.3	12	31.3	11	55.1	17.1	14.1		
58	12	14.5	12	16.5	11	41.0	17.4	14.1	58	12	29.5	12	31.6	11	55.4	17.4	14.4		
59	12	14.8	12	16.8	11	41.3	17.7	14.3	59	12	29.8	12	31.8	11	55.6	17.7	14.6		

50 min

Schalttafel

51 min

50 min	Zuwachs Grt					51 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	s	o	'	o	'	o	'	'	'
0	12	30.0	12	32.1	11	55.8	0.0	0.0	0	12	45.0	12	47.1	12	10.1	0.0	0.0
1	12	30.3	12	32.3	11	56.1	0.3	0.3	1	12	45.3	12	47.4	12	10.4	0.3	0.3
2	12	30.5	12	32.6	11	56.3	0.6	0.5	2	12	45.5	12	47.6	12	10.6	0.6	0.5
3	12	30.8	12	32.8	11	56.5	0.9	0.8	3	12	45.8	12	47.9	12	10.9	0.9	0.8
4	12	31.0	12	33.1	11	56.8	1.2	1.0	4	12	46.0	12	48.1	12	11.1	1.2	1.0
5	12	31.3	12	33.3	11	57.0	1.5	1.3	5	12	46.2	12	48.4	12	11.3	1.5	1.3
6	12	31.5	12	33.6	11	57.3	1.8	1.5	6	12	46.5	12	48.6	12	11.6	1.8	1.5
7	12	31.8	12	33.8	11	57.5	2.1	1.8	7	12	46.7	12	48.9	12	11.8	2.1	1.8
8	12	32.0	12	34.1	11	57.7	2.4	2.0	8	12	47.0	12	49.1	12	12.1	2.4	2.1
9	12	32.3	12	34.3	11	58.0	2.7	2.3	9	12	47.3	12	49.4	12	12.3	2.7	2.3
10	12	32.5	12	34.6	11	58.2	3.0	2.5	10	12	47.5	12	49.6	12	12.5	3.0	2.6
11	12	32.8	12	34.8	11	58.5	3.3	2.8	11	12	47.8	12	49.9	12	12.8	3.3	2.8
12	12	33.0	12	35.1	11	58.7	3.6	3.0	12	12	48.0	12	50.1	12	13.0	3.6	3.1
13	12	33.3	12	35.3	11	58.9	3.9	3.3	13	12	48.3	12	50.4	12	13.3	3.9	3.4
14	12	33.5	12	35.6	11	59.2	4.2	3.5	14	12	48.5	12	50.6	12	13.5	4.2	3.6
15	12	33.8	12	35.8	11	59.4	4.5	3.8	15	12	48.8	12	50.9	12	13.7	4.5	3.9
16	12	34.0	12	36.1	11	59.7	4.8	4.0	16	12	49.0	12	51.1	12	14.0	4.8	4.1
17	12	34.3	12	36.3	11	59.9	5.1	4.3	17	12	49.3	12	51.4	12	14.2	5.1	4.4
18	12	34.5	12	36.6	12	00.1	5.4	4.6	18	12	49.5	12	51.6	12	14.4	5.4	4.6
19	12	34.8	12	36.8	12	00.4	5.7	4.8	19	12	49.8	12	51.9	12	14.7	5.7	4.9
20	12	35.0	12	37.1	12	00.6	6.0	5.1	20	12	50.0	12	52.1	12	14.9	6.0	5.2
21	12	35.3	12	37.3	12	00.8	6.3	5.3	21	12	50.3	12	52.4	12	15.2	6.3	5.4
22	12	35.5	12	37.6	12	01.1	6.6	5.6	22	12	50.5	12	52.6	12	15.4	6.6	5.7
23	12	35.8	12	37.8	12	01.3	6.9	5.8	23	12	50.8	12	52.9	12	15.6	6.9	5.9
24	12	36.0	12	38.1	12	01.6	7.2	6.1	24	12	51.0	12	53.1	12	15.9	7.2	6.2
25	12	36.3	12	38.4	12	01.8	7.5	6.3	25	12	51.3	12	53.4	12	16.1	7.5	6.4
26	12	36.5	12	38.6	12	02.0	7.8	6.6	26	12	51.5	12	53.6	12	16.4	7.8	6.7
27	12	36.8	12	38.9	12	02.3	8.1	6.8	27	12	51.7	12	53.9	12	16.6	8.1	7.0
28	12	37.0	12	39.1	12	02.5	8.4	7.1	28	12	52.0	12	54.1	12	16.8	8.4	7.2
29	12	37.3	12	39.4	12	02.8	8.7	7.3	29	12	52.3	12	54.4	12	17.1	8.7	7.5
30	12	37.5	12	39.6	12	03.0	9.0	7.6	30	12	52.5	12	54.6	12	17.3	9.0	7.7
31	12	37.8	12	39.9	12	03.2	9.3	7.8	31	12	52.8	12	54.9	12	17.5	9.3	8.0
32	12	38.0	12	40.1	12	03.5	9.6	8.1	32	12	53.0	12	55.1	12	17.8	9.6	8.3
33	12	38.3	12	40.4	12	03.7	9.9	8.3	33	12	53.3	12	55.4	12	18.0	9.9	8.5
34	12	38.5	12	40.6	12	03.9	10.2	8.6	34	12	53.5	12	55.6	12	18.3	10.2	8.8
35	12	38.8	12	40.9	12	04.2	10.5	8.8	35	12	53.7	12	55.9	12	18.5	10.5	9.0
36	12	39.0	12	41.1	12	04.4	10.8	9.1	36	12	54.0	12	56.2	12	18.7	10.8	9.3
37	12	39.3	12	41.4	12	04.7	11.1	9.4	37	12	54.3	12	56.4	12	19.0	11.1	9.5
38	12	39.5	12	41.6	12	04.9	11.4	9.6	38	12	54.5	12	56.7	12	19.2	11.4	9.8
39	12	39.8	12	41.9	12	05.1	11.7	9.9	39	12	54.8	12	56.9	12	19.5	11.7	10.1
40	12	40.0	12	42.1	12	05.4	12.0	10.1	40	12	55.0	12	57.2	12	19.7	12.0	10.3
41	12	40.3	12	42.4	12	05.6	12.3	10.4	41	12	55.3	12	57.4	12	19.9	12.3	10.6
42	12	40.5	12	42.6	12	05.9	12.6	10.6	42	12	55.5	12	57.7	12	20.2	12.6	10.8
43	12	40.8	12	42.9	12	06.1	12.9	10.9	43	12	55.7	12	57.9	12	20.4	12.9	11.1
44	12	41.0	12	43.1	12	06.3	13.2	11.1	44	12	56.0	12	58.2	12	20.6	13.2	11.3
45	12	41.3	12	43.4	12	06.6	13.5	11.4	45	12	56.2	12	58.4	12	20.9	13.5	11.6
46	12	41.5	12	43.6	12	06.8	13.8	11.6	46	12	56.5	12	58.7	12	21.1	13.8	11.9
47	12	41.8	12	43.9	12	07.0	14.1	11.9	47	12	56.8	12	58.9	12	21.4	14.1	12.1
48	12	42.0	12	44.1	12	07.3	14.4	12.1	48	12	57.0	12	59.2	12	21.6	14.4	12.4
49	12	42.3	12	44.4	12	07.5	14.7	12.4	49	12	57.2	12	59.4	12	21.8	14.7	12.6
50	12	42.5	12	44.6	12	07.8	15.0	12.6	50	12	57.5	12	59.7	12	22.1	15.0	12.9
51	12	42.8	12	44.9	12	08.0	15.3	12.9	51	12	57.8	12	59.9	12	22.3	15.3	13.2
52	12	43.0	12	45.1	12	08.2	15.6	13.1	52	12	58.0	13	00.2	12	22.6	15.6	13.4
53	12	43.3	12	45.4	12	08.5	15.9	13.4	53	12	58.3	13	00.4	12	22.8	15.9	13.7
54	12	43.5	12	45.6	12	08.7	16.2	13.7	54	12	58.5	13	00.7	12	23.0	16.2	13.9
55	12	43.8	12	45.9	12	09.0	16.5	13.9	55	12	58.8	13	00.9	12	23.3	16.5	14.2
56	12	44.0	12	46.1	12	09.2	16.8	14.2	56	12	59.0	13	01.2	12	23.5	16.8	14.4
57	12	44.3	12	46.4	12	09.4	17.1	14.4	57	12	59.3	13	01.4	12	23.8	17.1	14.7
58	12	44.5	12	46.6	12	09.7	17.4	14.7	58	12	59.5	13	01.7	12	24.0	17.4	15.0
59	12	44.8	12	46.9	12	09.9	17.7	14.9	59	12	59.8	13	01.9	12	24.2	17.7	15.2

52 min

Schalttafel

53 min

52 min	Zuwachs Grt					53 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	s	o	'	o	'	o	'	'	'
0	13	00.0	13	02.2	12	24.5	0.0	0.0	0	13	15.0	13	17.2	12	38.8	0.0	0.0
1	13	00.3	13	02.4	12	24.7	0.3	0.3	1	13	15.3	13	17.5	12	39.0	0.3	0.3
2	13	00.5	13	02.7	12	24.9	0.6	0.5	2	13	15.5	13	17.7	12	39.3	0.6	0.5
3	13	00.8	13	02.9	12	25.2	0.9	0.8	3	13	15.8	13	18.0	12	39.5	0.9	0.8
4	13	01.0	13	03.2	12	25.4	1.2	1.1	4	13	16.0	13	18.2	12	39.7	1.2	1.1
5	13	01.3	13	03.4	12	25.7	1.5	1.3	5	13	16.2	13	18.5	12	40.0	1.5	1.3
6	13	01.5	13	03.7	12	25.9	1.8	1.6	6	13	16.5	13	18.7	12	40.2	1.8	1.6
7	13	01.8	13	03.9	12	26.1	2.1	1.8	7	13	16.7	13	19.0	12	40.5	2.1	1.9
8	13	02.0	13	04.2	12	26.4	2.4	2.1	8	13	17.0	13	19.2	12	40.7	2.4	2.1
9	13	02.2	13	04.4	12	26.6	2.7	2.4	9	13	17.2	13	19.5	12	40.9	2.7	2.4
10	13	02.5	13	04.7	12	26.9	3.0	2.6	10	13	17.5	13	19.7	12	41.2	3.0	2.7
11	13	02.8	13	04.9	12	27.1	3.3	2.9	11	13	17.8	13	20.0	12	41.4	3.3	2.9
12	13	03.0	13	05.2	12	27.3	3.6	3.2	12	13	18.0	13	20.2	12	41.6	3.6	3.2
13	13	03.3	13	05.4	12	27.6	3.9	3.4	13	13	18.3	13	20.5	12	41.9	3.9	3.5
14	13	03.5	13	05.7	12	27.8	4.2	3.7	14	13	18.5	13	20.7	12	42.1	4.2	3.8
15	13	03.8	13	05.9	12	28.0	4.5	3.9	15	13	18.8	13	21.0	12	42.4	4.5	4.0
16	13	04.0	13	06.2	12	28.3	4.8	4.2	16	13	19.0	13	21.2	12	42.6	4.8	4.3
17	13	04.2	13	06.4	12	28.5	5.1	4.5	17	13	19.3	13	21.5	12	42.8	5.1	4.6
18	13	04.5	13	06.7	12	28.8	5.4	4.7	18	13	19.5	13	21.7	12	43.1	5.4	4.8
19	13	04.8	13	06.9	12	29.0	5.7	5.0	19	13	19.8	13	22.0	12	43.3	5.7	5.1
20	13	05.0	13	07.2	12	29.2	6.0	5.3	20	13	20.0	13	22.2	12	43.6	6.0	5.4
21	13	05.3	13	07.4	12	29.5	6.3	5.5	21	13	20.3	13	22.5	12	43.8	6.3	5.6
22	13	05.5	13	07.7	12	29.7	6.6	5.8	22	13	20.5	13	22.7	12	44.0	6.6	5.9
23	13	05.7	13	07.9	12	30.0	6.9	6.0	23	13	20.8	13	23.0	12	44.3	6.9	6.2
24	13	06.0	13	08.2	12	30.2	7.2	6.3	24	13	21.0	13	23.2	12	44.5	7.2	6.4
25	13	06.2	13	08.4	12	30.4	7.5	6.6	25	13	21.3	13	23.5	12	44.7	7.5	6.7
26	13	06.5	13	08.7	12	30.7	7.8	6.8	26	13	21.5	13	23.7	12	45.0	7.8	7.0
27	13	06.7	13	08.9	12	30.9	8.1	7.1	27	13	21.7	13	24.0	12	45.2	8.1	7.2
28	13	07.0	13	09.2	12	31.1	8.4	7.4	28	13	22.0	13	24.2	12	45.5	8.4	7.5
29	13	07.3	13	09.4	12	31.4	8.7	7.6	29	13	22.3	13	24.5	12	45.7	8.7	7.8
30	13	07.5	13	09.7	12	31.6	9.0	7.9	30	13	22.5	13	24.7	12	45.9	9.0	8.0
31	13	07.7	13	09.9	12	31.9	9.3	8.2	31	13	22.8	13	25.0	12	46.2	9.3	8.3
32	13	08.0	13	10.2	12	32.1	9.6	8.4	32	13	23.0	13	25.2	12	46.4	9.6	8.6
33	13	08.3	13	10.4	12	32.3	9.9	8.7	33	13	23.3	13	25.5	12	46.7	9.9	8.8
34	13	08.5	13	10.7	12	32.6	10.2	8.9	34	13	23.5	13	25.7	12	46.9	10.2	9.1
35	13	08.8	13	10.9	12	32.8	10.5	9.2	35	13	23.7	13	26.0	12	47.1	10.5	9.4
36	13	09.0	13	11.2	12	33.1	10.8	9.5	36	13	24.0	13	26.2	12	47.4	10.8	9.6
37	13	09.3	13	11.4	12	33.3	11.1	9.7	37	13	24.3	13	26.5	12	47.6	11.1	9.9
38	13	09.5	13	11.7	12	33.5	11.4	10.0	38	13	24.5	13	26.7	12	47.9	11.4	10.2
39	13	09.8	13	11.9	12	33.8	11.7	10.3	39	13	24.8	13	27.0	12	48.1	11.7	10.5
40	13	10.0	13	12.2	12	34.0	12.0	10.5	40	13	25.0	13	27.2	12	48.3	12.0	10.7
41	13	10.3	13	12.4	12	34.2	12.3	10.8	41	13	25.3	13	27.5	12	48.6	12.3	11.0
42	13	10.5	13	12.7	12	34.5	12.6	11.0	42	13	25.5	13	27.7	12	48.8	12.6	11.3
43	13	10.8	13	12.9	12	34.7	12.9	11.3	43	13	25.7	13	28.0	12	49.0	12.9	11.5
44	13	11.0	13	13.2	12	35.0	13.2	11.6	44	13	26.0	13	28.2	12	49.3	13.2	11.8
45	13	11.3	13	13.4	12	35.2	13.5	11.8	45	13	26.2	13	28.5	12	49.5	13.5	12.1
46	13	11.5	13	13.7	12	35.4	13.8	12.1	46	13	26.5	13	28.7	12	49.8	13.8	12.3
47	13	11.8	13	13.9	12	35.7	14.1	12.4	47	13	26.8	13	29.0	12	50.0	14.1	12.6
48	13	12.0	13	14.2	12	35.9	14.4	12.6	48	13	27.0	13	29.2	12	50.2	14.4	12.9
49	13	12.3	13	14.5	12	36.2	14.7	12.9	49	13	27.2	13	29.5	12	50.5	14.7	13.1
50	13	12.5	13	14.7	12	36.4	15.0	13.1	50	13	27.5	13	29.7	12	50.7	15.0	13.4
51	13	12.8	13	15.0	12	36.6	15.3	13.4	51	13	27.7	13	30.0	12	51.0	15.3	13.7
52	13	13.0	13	15.2	12	36.9	15.6	13.7	52	13	28.0	13	30.2	12	51.2	15.6	13.9
53	13	13.3	13	15.5	12	37.1	15.9	13.9	53	13	28.3	13	30.5	12	51.4	15.9	14.2
54	13	13.5	13	15.7	12	37.4	16.2	14.2	54	13	28.5	13	30.7	12	51.7	16.2	14.5
55	13	13.8	13	16.0	12	37.6	16.5	14.5	55	13	28.8	13	31.0	12	51.9	16.5	14.7
56	13	14.0	13	16.2	12	37.8	16.8	14.7	56	13	29.0	13	31.2	12	52.1	16.8	15.0
57	13	14.3	13	16.5	12	38.1	17.1	15.0	57	13	29.3	13	31.5	12	52.4	17.1	15.3
58	13	14.5	13	16.7	12	38.3	17.4	15.2	58	13	29.5	13	31.7	12	52.6	17.4	15.5
59	13	14.8	13	17.0	12	38.5	17.7	15.5	59	13	29.8	13	32.0	12	52.9	17.7	15.8

54 min

Schalttafel

55 min

54 min	Zuwachs Grt					55 min	Zuwachs Grt				
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb
s	° ' "	° ' "	° ' "	' "	' "	s	° ' "	° ' "	° ' "	' "	' "
0	13 30.0	13 32.3	12 53.1	0.0	0.0	0	13 45.0	13 47.3	13 07.4	0.0	0.0
1	13 30.3	13 32.5	12 53.3	0.3	0.3	1	13 45.3	13 47.5	13 07.7	0.3	0.3
2	13 30.5	13 32.8	12 53.6	0.6	0.5	2	13 45.5	13 47.8	13 07.9	0.6	0.6
3	13 30.8	13 33.0	12 53.8	0.9	0.8	3	13 45.8	13 48.0	13 08.1	0.9	0.8
4	13 31.0	13 33.3	12 54.1	1.2	1.1	4	13 46.0	13 48.3	13 08.4	1.2	1.1
5	13 31.3	13 33.5	12 54.3	1.5	1.4	5	13 46.2	13 48.5	13 08.6	1.5	1.4
6	13 31.5	13 33.8	12 54.5	1.8	1.6	6	13 46.5	13 48.8	13 08.8	1.8	1.7
7	13 31.8	13 34.0	12 54.8	2.1	1.9	7	13 46.7	13 49.0	13 09.1	2.1	1.9
8	13 32.0	13 34.3	12 55.0	2.4	2.2	8	13 47.0	13 49.3	13 09.3	2.4	2.2
9	13 32.3	13 34.5	12 55.2	2.7	2.5	9	13 47.2	13 49.5	13 09.6	2.7	2.5
10	13 32.5	13 34.8	12 55.5	3.0	2.7	10	13 47.5	13 49.8	13 09.8	3.0	2.8
11	13 32.8	13 35.0	12 55.7	3.3	3.0	11	13 47.8	13 50.0	13 10.0	3.3	3.1
12	13 33.0	13 35.3	12 56.0	3.6	3.3	12	13 48.0	13 50.3	13 10.3	3.6	3.3
13	13 33.3	13 35.5	12 56.2	3.9	3.5	13	13 48.3	13 50.6	13 10.5	3.9	3.6
14	13 33.5	13 35.8	12 56.4	4.2	3.8	14	13 48.5	13 50.8	13 10.8	4.2	3.9
15	13 33.8	13 36.0	12 56.7	4.5	4.1	15	13 48.8	13 51.1	13 11.0	4.5	4.2
16	13 34.0	13 36.3	12 56.9	4.8	4.4	16	13 49.0	13 51.3	13 11.2	4.8	4.4
17	13 34.3	13 36.5	12 57.2	5.1	4.6	17	13 49.3	13 51.6	13 11.5	5.1	4.7
18	13 34.5	13 36.8	12 57.4	5.4	4.9	18	13 49.5	13 51.8	13 11.7	5.4	5.0
19	13 34.8	13 37.0	12 57.6	5.7	5.2	19	13 49.8	13 52.1	13 12.0	5.7	5.3
20	13 35.0	13 37.3	12 57.9	6.0	5.5	20	13 50.0	13 52.3	13 12.2	6.0	5.6
21	13 35.3	13 37.5	12 58.1	6.3	5.7	21	13 50.3	13 52.6	13 12.4	6.3	5.8
22	13 35.5	13 37.8	12 58.3	6.6	6.0	22	13 50.5	13 52.8	13 12.7	6.6	6.1
23	13 35.8	13 38.0	12 58.6	6.9	6.3	23	13 50.8	13 53.1	13 12.9	6.9	6.4
24	13 36.0	13 38.3	12 58.8	7.2	6.6	24	13 51.0	13 53.3	13 13.1	7.2	6.7
25	13 36.3	13 38.5	12 59.1	7.5	6.8	25	13 51.3	13 53.6	13 13.4	7.5	7.0
26	13 36.5	13 38.8	12 59.3	7.8	7.1	26	13 51.5	13 53.8	13 13.6	7.8	7.2
27	13 36.7	13 39.0	12 59.5	8.1	7.4	27	13 51.7	13 54.1	13 13.9	8.1	7.5
28	13 37.0	13 39.3	12 59.8	8.4	7.6	28	13 52.0	13 54.3	13 14.1	8.4	7.8
29	13 37.3	13 39.5	13 00.0	8.7	7.9	29	13 52.3	13 54.6	13 14.3	8.7	8.1
30	13 37.5	13 39.8	13 00.3	9.0	8.2	30	13 52.5	13 54.8	13 14.6	9.0	8.3
31	13 37.8	13 40.0	13 00.5	9.3	8.5	31	13 52.8	13 55.1	13 14.8	9.3	8.6
32	13 38.0	13 40.3	13 00.7	9.6	8.7	32	13 53.0	13 55.3	13 15.1	9.6	8.9
33	13 38.3	13 40.5	13 01.0	9.9	9.0	33	13 53.3	13 55.6	13 15.3	9.9	9.2
34	13 38.5	13 40.8	13 01.2	10.2	9.3	34	13 53.5	13 55.8	13 15.5	10.2	9.5
35	13 38.8	13 41.0	13 01.5	10.5	9.6	35	13 53.7	13 56.1	13 15.8	10.5	9.7
36	13 39.0	13 41.3	13 01.7	10.8	9.8	36	13 54.0	13 56.3	13 16.0	10.8	10.0
37	13 39.3	13 41.5	13 01.9	11.1	10.1	37	13 54.3	13 56.6	13 16.2	11.1	10.3
38	13 39.5	13 41.8	13 02.2	11.4	10.4	38	13 54.5	13 56.8	13 16.5	11.4	10.6
39	13 39.8	13 42.0	13 02.4	11.7	10.6	39	13 54.8	13 57.1	13 16.7	11.7	10.8
40	13 40.0	13 42.3	13 02.6	12.0	10.9	40	13 55.0	13 57.3	13 17.0	12.0	11.1
41	13 40.3	13 42.5	13 02.9	12.3	11.2	41	13 55.3	13 57.6	13 17.2	12.3	11.4
42	13 40.5	13 42.8	13 03.1	12.6	11.5	42	13 55.5	13 57.8	13 17.4	12.6	11.7
43	13 40.8	13 43.0	13 03.4	12.9	11.7	43	13 55.7	13 58.1	13 17.7	12.9	12.0
44	13 41.0	13 43.3	13 03.6	13.2	12.0	44	13 56.0	13 58.3	13 17.9	13.2	12.2
45	13 41.3	13 43.5	13 03.8	13.5	12.3	45	13 56.2	13 58.6	13 18.2	13.5	12.5
46	13 41.5	13 43.8	13 04.1	13.8	12.6	46	13 56.5	13 58.8	13 18.4	13.8	12.8
47	13 41.8	13 44.0	13 04.3	14.1	12.8	47	13 56.8	13 59.1	13 18.6	14.1	13.1
48	13 42.0	13 44.3	13 04.6	14.4	13.1	48	13 57.0	13 59.3	13 18.9	14.4	13.3
49	13 42.3	13 44.5	13 04.8	14.7	13.4	49	13 57.2	13 59.6	13 19.1	14.7	13.6
50	13 42.5	13 44.8	13 05.0	15.0	13.7	50	13 57.5	13 59.8	13 19.3	15.0	13.9
51	13 42.8	13 45.0	13 05.3	15.3	13.9	51	13 57.7	14 00.1	13 19.6	15.3	14.2
52	13 43.0	13 45.3	13 05.5	15.6	14.2	52	13 58.0	14 00.3	13 19.8	15.6	14.5
53	13 43.3	13 45.5	13 05.7	15.9	14.5	53	13 58.2	14 00.6	13 20.1	15.9	14.7
54	13 43.5	13 45.8	13 06.0	16.2	14.7	54	13 58.5	14 00.8	13 20.3	16.2	15.0
55	13 43.8	13 46.0	13 06.2	16.5	15.0	55	13 58.8	14 01.1	13 20.5	16.5	15.3
56	13 44.0	13 46.3	13 06.5	16.8	15.3	56	13 59.0	14 01.3	13 20.8	16.8	15.6
57	13 44.3	13 46.5	13 06.7	17.1	15.6	57	13 59.3	14 01.6	13 21.0	17.1	15.9
58	13 44.5	13 46.8	13 06.9	17.4	15.8	58	13 59.5	14 01.8	13 21.3	17.4	16.1
59	13 44.8	13 47.0	13 07.2	17.7	16.1	59	13 59.8	14 02.1	13 21.5	17.7	16.4

56 min

Schalttafel

57 min

56 min	Zuwachs Grt					57 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	s	o	'	o	'	o	'	'	'
0	14	00.0	14	02.3	13	21.7	0.0	0.0	0	14	15.0	14	17.4	13	36.0	0.0	0.0
1	14	00.3	14	02.6	13	22.0	0.3	0.3	1	14	15.3	14	17.6	13	36.3	0.3	0.3
2	14	00.5	14	02.8	13	22.2	0.6	0.6	2	14	15.5	14	17.9	13	36.5	0.6	0.6
3	14	00.8	14	03.1	13	22.4	0.9	0.8	3	14	15.8	14	18.1	13	36.8	0.9	0.9
4	14	01.0	14	03.3	13	22.7	1.2	1.1	4	14	16.0	14	18.4	13	37.0	1.2	1.2
5	14	01.3	14	03.6	13	22.9	1.5	1.4	5	14	16.2	14	18.6	13	37.2	1.5	1.4
6	14	01.5	14	03.8	13	23.2	1.8	1.7	6	14	16.5	14	18.9	13	37.5	1.8	1.7
7	14	01.8	14	04.1	13	23.4	2.1	2.0	7	14	16.7	14	19.1	13	37.7	2.1	2.0
8	14	02.0	14	04.3	13	23.6	2.4	2.3	8	14	17.0	14	19.4	13	38.0	2.4	2.3
9	14	02.2	14	04.6	13	23.9	2.7	2.5	9	14	17.2	14	19.6	13	38.2	2.7	2.6
10	14	02.5	14	04.8	13	24.1	3.0	2.8	10	14	17.5	14	19.9	13	38.4	3.0	2.9
11	14	02.8	14	05.1	13	24.4	3.3	3.1	11	14	17.8	14	20.1	13	38.7	3.3	3.2
12	14	03.0	14	05.3	13	24.6	3.6	3.4	12	14	18.0	14	20.4	13	38.9	3.6	3.5
13	14	03.3	14	05.6	13	24.8	3.9	3.7	13	14	18.2	14	20.6	13	39.2	3.9	3.7
14	14	03.5	14	05.8	13	25.1	4.2	4.0	14	14	18.5	14	20.9	13	39.4	4.2	4.0
15	14	03.8	14	06.1	13	25.3	4.5	4.2	15	14	18.8	14	21.1	13	39.6	4.5	4.3
16	14	04.0	14	06.3	13	25.6	4.8	4.5	16	14	19.0	14	21.4	13	39.9	4.8	4.6
17	14	04.2	14	06.6	13	25.8	5.1	4.8	17	14	19.3	14	21.6	13	40.1	5.1	4.9
18	14	04.5	14	06.8	13	26.0	5.4	5.1	18	14	19.5	14	21.9	13	40.3	5.4	5.2
19	14	04.8	14	07.1	13	26.3	5.7	5.4	19	14	19.8	14	22.1	13	40.6	5.7	5.5
20	14	05.0	14	07.3	13	26.5	6.0	5.7	20	14	20.0	14	22.4	13	40.8	6.0	5.8
21	14	05.3	14	07.6	13	26.7	6.3	5.9	21	14	20.3	14	22.6	13	41.1	6.3	6.1
22	14	05.5	14	07.8	13	27.0	6.6	6.2	22	14	20.5	14	22.9	13	41.3	6.6	6.3
23	14	05.7	14	08.1	13	27.2	6.9	6.5	23	14	20.8	14	23.1	13	41.5	6.9	6.6
24	14	06.0	14	08.3	13	27.5	7.2	6.8	24	14	21.0	14	23.4	13	41.8	7.2	6.9
25	14	06.2	14	08.6	13	27.7	7.5	7.1	25	14	21.3	14	23.6	13	42.0	7.5	7.2
26	14	06.5	14	08.9	13	27.9	7.8	7.4	26	14	21.5	14	23.9	13	42.3	7.8	7.5
27	14	06.7	14	09.1	13	28.2	8.1	7.6	27	14	21.7	14	24.1	13	42.5	8.1	7.8
28	14	07.0	14	09.4	13	28.4	8.4	7.9	28	14	22.0	14	24.4	13	42.7	8.4	8.1
29	14	07.3	14	09.6	13	28.7	8.7	8.2	29	14	22.3	14	24.6	13	43.0	8.7	8.4
30	14	07.5	14	09.9	13	28.9	9.0	8.5	30	14	22.5	14	24.9	13	43.2	9.0	8.6
31	14	07.7	14	10.1	13	29.1	9.3	8.8	31	14	22.8	14	25.1	13	43.4	9.3	8.9
32	14	08.0	14	10.4	13	29.4	9.6	9.1	32	14	23.0	14	25.4	13	43.7	9.6	9.2
33	14	08.2	14	10.6	13	29.6	9.9	9.3	33	14	23.3	14	25.6	13	43.9	9.9	9.5
34	14	08.5	14	10.9	13	29.8	10.2	9.6	34	14	23.5	14	25.9	13	44.2	10.2	9.8
35	14	08.7	14	11.1	13	30.1	10.5	9.9	35	14	23.7	14	26.1	13	44.4	10.5	10.1
36	14	09.0	14	11.4	13	30.3	10.8	10.2	36	14	24.0	14	26.4	13	44.6	10.8	10.4
37	14	09.3	14	11.6	13	30.6	11.1	10.5	37	14	24.3	14	26.7	13	44.9	11.1	10.7
38	14	09.5	14	11.9	13	30.8	11.4	10.8	38	14	24.5	14	26.9	13	45.1	11.4	11.0
39	14	09.8	14	12.1	13	31.0	11.7	11.0	39	14	24.8	14	27.2	13	45.4	11.7	11.2
40	14	10.0	14	12.4	13	31.3	12.0	11.3	40	14	25.0	14	27.4	13	45.6	12.0	11.5
41	14	10.3	14	12.6	13	31.5	12.3	11.6	41	14	25.3	14	27.7	13	45.8	12.3	11.8
42	14	10.5	14	12.9	13	31.8	12.6	11.9	42	14	25.5	14	27.9	13	46.1	12.6	12.1
43	14	10.8	14	13.1	13	32.0	12.9	12.2	43	14	25.7	14	28.2	13	46.3	12.9	12.4
44	14	11.0	14	13.4	13	32.2	13.2	12.5	44	14	26.0	14	28.4	13	46.5	13.2	12.7
45	14	11.3	14	13.6	13	32.5	13.5	12.7	45	14	26.2	14	28.7	13	46.8	13.5	13.0
46	14	11.5	14	13.9	13	32.7	13.8	13.0	46	14	26.5	14	28.9	13	47.0	13.8	13.3
47	14	11.8	14	14.1	13	32.9	14.1	13.3	47	14	26.8	14	29.2	13	47.3	14.1	13.5
48	14	12.0	14	14.4	13	33.2	14.4	13.6	48	14	27.0	14	29.4	13	47.5	14.4	13.8
49	14	12.3	14	14.6	13	33.4	14.7	13.9	49	14	27.2	14	29.7	13	47.7	14.7	14.1
50	14	12.5	14	14.9	13	33.7	15.0	14.2	50	14	27.5	14	29.9	13	48.0	15.0	14.4
51	14	12.8	14	15.1	13	33.9	15.3	14.4	51	14	27.7	14	30.2	13	48.2	15.3	14.7
52	14	13.0	14	15.4	13	34.1	15.6	14.7	52	14	28.0	14	30.4	13	48.5	15.6	15.0
53	14	13.3	14	15.6	13	34.4	15.9	15.0	53	14	28.2	14	30.7	13	48.7	15.9	15.3
54	14	13.5	14	15.9	13	34.6	16.2	15.3	54	14	28.5	14	30.9	13	48.9	16.2	15.6
55	14	13.8	14	16.1	13	34.9	16.5	15.6	55	14	28.7	14	31.2	13	49.2	16.5	15.9
56	14	14.0	14	16.4	13	35.1	16.8	15.9	56	14	29.0	14	31.4	13	49.4	16.8	16.1
57	14	14.3	14	16.6	13	35.3	17.1	16.1	57	14	29.3	14	31.7	13	49.7	17.1	16.4
58	14	14.5	14	16.9	13	35.6	17.4	16.4	58	14	29.5	14	31.9	13	49.9	17.4	16.7
59	14	14.8	14	17.1	13	35.8	17.7	16.7	59	14	29.8	14	32.2	13	50.1	17.7	17.0

58 min

Schalttafel

59 min

58 min	Zuwachs Grt					59 min	Zuwachs Grt										
	Sonne Planet	Frühlp.	Mond	Unt	Vb		Sonne Planet	Frühlp.	Mond	Unt	Vb						
s	o	'	o	'	o	'	'	'	s	o	'	o	'	o	'	'	'
0	14	30.0	14	32.4	13	50.4	0.0	0.0	0	14	45.0	14	47.5	14	04.7	0.0	0.0
1	14	30.3	14	32.7	13	50.6	0.3	0.3	1	14	45.3	14	47.7	14	04.9	0.3	0.3
2	14	30.5	14	32.9	13	50.8	0.6	0.6	2	14	45.5	14	48.0	14	05.2	0.6	0.6
3	14	30.8	14	33.2	13	51.1	0.9	0.9	3	14	45.8	14	48.2	14	05.4	0.9	0.9
4	14	31.0	14	33.4	13	51.3	1.2	1.2	4	14	46.0	14	48.5	14	05.6	1.2	1.2
5	14	31.3	14	33.7	13	51.6	1.5	1.5	5	14	46.2	14	48.7	14	05.9	1.5	1.5
6	14	31.5	14	33.9	13	51.8	1.8	1.8	6	14	46.5	14	49.0	14	06.1	1.8	1.8
7	14	31.8	14	34.2	13	52.0	2.1	2.1	7	14	46.7	14	49.2	14	06.4	2.1	2.1
8	14	32.0	14	34.4	13	52.3	2.4	2.3	8	14	47.0	14	49.5	14	06.6	2.4	2.4
9	14	32.3	14	34.7	13	52.5	2.7	2.6	9	14	47.2	14	49.7	14	06.8	2.7	2.7
10	14	32.5	14	34.9	13	52.8	3.0	2.9	10	14	47.5	14	50.0	14	07.1	3.0	3.0
11	14	32.8	14	35.2	13	53.0	3.3	3.2	11	14	47.8	14	50.2	14	07.3	3.3	3.3
12	14	33.0	14	35.4	13	53.2	3.6	3.5	12	14	48.0	14	50.5	14	07.5	3.6	3.6
13	14	33.3	14	35.7	13	53.5	3.9	3.8	13	14	48.2	14	50.7	14	07.8	3.9	3.9
14	14	33.5	14	35.9	13	53.7	4.2	4.1	14	14	48.5	14	51.0	14	08.0	4.2	4.2
15	14	33.8	14	36.2	13	53.9	4.5	4.4	15	14	48.7	14	51.2	14	08.3	4.5	4.5
16	14	34.0	14	36.4	13	54.2	4.8	4.7	16	14	49.0	14	51.5	14	08.5	4.8	4.8
17	14	34.3	14	36.7	13	54.4	5.1	5.0	17	14	49.3	14	51.7	14	08.7	5.1	5.1
18	14	34.5	14	36.9	13	54.7	5.4	5.3	18	14	49.5	14	52.0	14	09.0	5.4	5.4
19	14	34.8	14	37.2	13	54.9	5.7	5.6	19	14	49.7	14	52.2	14	09.2	5.7	5.7
20	14	35.0	14	37.4	13	55.1	6.0	5.9	20	14	50.0	14	52.5	14	09.5	6.0	6.0
21	14	35.3	14	37.7	13	55.4	6.3	6.2	21	14	50.3	14	52.7	14	09.7	6.3	6.3
22	14	35.5	14	37.9	13	55.6	6.6	6.5	22	14	50.5	14	53.0	14	09.9	6.6	6.6
23	14	35.8	14	38.2	13	55.9	6.9	6.7	23	14	50.8	14	53.2	14	10.2	6.9	6.9
24	14	36.0	14	38.4	13	56.1	7.2	7.0	24	14	51.0	14	53.5	14	10.4	7.2	7.2
25	14	36.3	14	38.7	13	56.3	7.5	7.3	25	14	51.3	14	53.7	14	10.6	7.5	7.5
26	14	36.5	14	38.9	13	56.6	7.8	7.6	26	14	51.5	14	54.0	14	10.9	7.8	7.8
27	14	36.7	14	39.2	13	56.8	8.1	7.9	27	14	51.7	14	54.2	14	11.1	8.1	8.1
28	14	37.0	14	39.4	13	57.0	8.4	8.2	28	14	52.0	14	54.5	14	11.4	8.4	8.4
29	14	37.3	14	39.7	13	57.3	8.7	8.5	29	14	52.3	14	54.7	14	11.6	8.7	8.7
30	14	37.5	14	39.9	13	57.5	9.0	8.8	30	14	52.5	14	55.0	14	11.8	9.0	8.9
31	14	37.8	14	40.2	13	57.8	9.3	9.1	31	14	52.8	14	55.2	14	12.1	9.3	9.2
32	14	38.0	14	40.4	13	58.0	9.6	9.4	32	14	53.0	14	55.5	14	12.3	9.6	9.5
33	14	38.3	14	40.7	13	58.2	9.9	9.7	33	14	53.3	14	55.7	14	12.6	9.9	9.8
34	14	38.5	14	40.9	13	58.5	10.2	10.0	34	14	53.5	14	56.0	14	12.8	10.2	10.1
35	14	38.7	14	41.2	13	58.7	10.5	10.3	35	14	53.7	14	56.2	14	13.0	10.5	10.4
36	14	39.0	14	41.4	13	59.0	10.8	10.6	36	14	54.0	14	56.5	14	13.3	10.8	10.7
37	14	39.3	14	41.7	13	59.2	11.1	10.9	37	14	54.3	14	56.7	14	13.5	11.1	11.0
38	14	39.5	14	41.9	13	59.4	11.4	11.1	38	14	54.5	14	57.0	14	13.8	11.4	11.3
39	14	39.8	14	42.2	13	59.7	11.7	11.4	39	14	54.8	14	57.2	14	14.0	11.7	11.6
40	14	40.0	14	42.4	13	59.9	12.0	11.7	40	14	55.0	14	57.5	14	14.2	12.0	11.9
41	14	40.3	14	42.7	14	00.1	12.3	12.0	41	14	55.3	14	57.7	14	14.5	12.3	12.2
42	14	40.5	14	42.9	14	00.4	12.6	12.3	42	14	55.5	14	58.0	14	14.7	12.6	12.5
43	14	40.8	14	43.2	14	00.6	12.9	12.6	43	14	55.7	14	58.2	14	14.9	12.9	12.8
44	14	41.0	14	43.4	14	00.9	13.2	12.9	44	14	56.0	14	58.5	14	15.2	13.2	13.1
45	14	41.3	14	43.7	14	01.1	13.5	13.2	45	14	56.2	14	58.7	14	15.4	13.5	13.4
46	14	41.5	14	43.9	14	01.3	13.8	13.5	46	14	56.5	14	59.0	14	15.7	13.8	13.7
47	14	41.8	14	44.2	14	01.6	14.1	13.8	47	14	56.8	14	59.2	14	15.9	14.1	14.0
48	14	42.0	14	44.5	14	01.8	14.4	14.1	48	14	57.0	14	59.5	14	16.1	14.4	14.3
49	14	42.3	14	44.7	14	02.1	14.7	14.4	49	14	57.2	14	59.7	14	16.4	14.7	14.6
50	14	42.5	14	45.0	14	02.3	15.0	14.7	50	14	57.5	14	60.0	14	16.6	15.0	14.9
51	14	42.8	14	45.2	14	02.5	15.3	15.0	51	14	57.7	15	00.2	14	16.9	15.3	15.2
52	14	43.0	14	45.5	14	02.8	15.6	15.2	52	14	58.0	15	00.5	14	17.1	15.6	15.5
53	14	43.3	14	45.7	14	03.0	15.9	15.5	53	14	58.2	15	00.7	14	17.3	15.9	15.8
54	14	43.5	14	46.0	14	03.3	16.2	15.8	54	14	58.5	15	01.0	14	17.6	16.2	16.1
55	14	43.8	14	46.2	14	03.5	16.5	16.1	55	14	58.7	15	01.2	14	17.8	16.5	16.4
56	14	44.0	14	46.5	14	03.7	16.8	16.4	56	14	59.0	15	01.5	14	18.0	16.8	16.7
57	14	44.3	14	46.7	14	04.0	17.1	16.7	57	14	59.2	15	01.7	14	18.3	17.1	17.0
58	14	44.5	14	47.0	14	04.2	17.4	17.0	58	14	59.5	15	02.0	14	18.5	17.4	17.3
59	14	44.8	14	47.2	14	04.4	17.7	17.3	59	14	59.8	15	02.2	14	18.8	17.7	17.6