

TU	SOL		LUA				Lat.	CREP		SOL Nascer	LUA - Nascer								
	AHG	Dec	AHG	v	Dec	d Ph		Náut.	Civil		27	28	29	30					
27 Q U A R T A F E I R A	00	180 42.4 N21 20.2	126 06.6	7.7	N23 13.9	3.8 57.2	N 72	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	
	01	195 42.3 20.6	140 33.3	7.7	23 10.1	3.9 57.2	N 70	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	
	02	210 42.2 21.0	155 00.0	7.7	23 06.2	4.0 57.2	68	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	
	03	225 42.2 21.4	169 26.7	7.8	23 02.2	4.2 57.3	66	////	////	01 27	05 05	07 03	08 58	10 50					
	04	240 42.1 21.8	183 53.5	7.7	22 58.0	4.3 57.3	64	////	////	02 07	05 52	07 31	09 16	11 00					
	05	255 42.0 22.2	198 20.2	7.8	22 53.7	4.5 57.3	62	////	////	00 43	02 34	06 23	07 53	09 30	11 09				
	06	270 41.9 N21 22.7	212 47.0	7.7	N22 49.2	4.6 57.3	60	////	////	01 37	02 55	06 46	08 11	09 42	11 16				
	07	285 41.9 23.1	227 13.7	7.8	22 44.6	4.7 57.4	N 58	////	02 08	03 12	07 04	08 25	09 53	11 23					
	08	300 41.8 23.5	241 40.5	7.8	22 39.9	4.9 57.4	56	00 39	02 30	03 26	07 20	08 38	10 02	11 29					
	09	315 41.7 23.9	256 07.3	7.8	22 35.0	5.0 57.4	54	01 28	02 48	03 38	07 33	08 49	10 10	11 34					
	10	330 41.6 24.3	270 34.1	7.9	22 30.0	5.1 57.4	52	01 57	03 04	03 49	07 44	08 58	10 17	11 39					
	11	345 41.6 24.7	285 01.0	7.8	22 24.9	5.2 57.5	50	02 18	03 17	03 59	07 55	09 07	10 24	11 43					
	12	0 41.5 N21 25.1	299 27.8	7.9	N22 19.7	5.4 57.5	45	02 56	03 43	04 19	08 16	09 25	10 37	11 52					
	13	15 41.4 25.5	313 54.7	7.9	22 14.3	5.6 57.5	N 40	03 23	04 03	04 35	08 33	09 40	10 49	11 59					
	14	30 41.3 25.9	328 21.6	7.9	22 08.7	5.6 57.5	35	03 44	04 20	04 49	08 48	09 52	10 59	12 06					
	15	45 41.2 26.3	342 48.5	7.9	22 03.1	5.8 57.5	30	04 01	04 34	05 00	09 01	10 03	11 07	12 11					
	16	60 41.2 26.7	357 15.4	8.0	21 57.3	5.9 57.6	20	04 28	04 56	05 20	09 22	10 22	11 22	12 21					
	17	75 41.1 27.1	11 42.4	8.0	21 51.4	6.1 57.6	N 10	04 48	05 15	05 38	09 41	10 38	11 34	12 30					
	18	90 41.0 N21 27.5	26 09.4	8.0	N21 45.3	6.2 57.6	0	05 06	05 32	05 54	09 58	10 53	11 46	12 38					
	19	105 40.9 27.9	40 36.4	8.0	21 39.1	6.3 57.6	S 10	05 21	05 47	06 10	10 16	11 08	11 58	12 46					
	20	120 40.9 28.3	55 03.4	8.1	21 32.8	6.4 57.7	20	05 36	06 03	06 27	10 34	11 24	12 10	12 54					
	21	135 40.8 28.7	69 30.5	8.1	21 26.4	6.6 57.7	30	05 50	06 20	06 46	10 56	11 42	12 25	13 04					
	22	150 40.7 29.1	83 57.6	8.1	21 19.8	6.7 57.7	35	05 58	06 29	06 57	11 08	11 53	12 33	13 09					
23	165 40.6 29.5	98 24.7	8.1	21 13.1	6.8 57.7	40	06 06	06 40	07 10	11 22	12 05	12 42	13 15						
24						45	06 15	06 52	07 25	11 39	12 19	12 53	13 23						
28 Q U I N T A F E I R A	00	180 40.5 N21 29.9	112 51.8	8.2	N21 06.3	7.0 57.7	S 50	06 26	07 06	07 43	12 00	12 37	13 06	13 31					
	01	195 40.5 30.3	127 19.0	8.2	20 59.3	7.1 57.8	52	06 30	07 13	07 52	12 10	12 45	13 13	13 35					
	02	210 40.4 30.7	141 46.2	8.2	20 52.2	7.2 57.8	54	06 35	07 20	08 02	12 22	12 54	13 19	13 40					
	03	225 40.3 31.1	156 13.4	8.3	20 45.0	7.3 57.8	56	06 40	07 28	08 13	12 34	13 04	13 27	13 45					
	04	240 40.2 31.5	170 40.7	8.3	20 37.7	7.5 57.8	58	06 46	07 37	08 26	12 49	13 16	13 35	13 50					
	05	255 40.1 31.9	185 08.0	8.3	20 30.2	7.5 57.9	S 60	06 52	07 47	08 40	13 06	13 29	13 45	13 56					
	06	270 40.1 N21 32.3	199 35.3	8.3	N20 22.7	7.7 57.9													
	07	285 40.0 32.7	214 02.6	8.4	20 15.0	7.9 57.9													
	08	300 39.9 33.1	228 30.0	8.5	20 07.1	7.9 57.9													
	09	315 39.8 33.5	242 57.5	8.4	19 59.2	8.1 58.0													
	10	330 39.7 33.9	257 24.9	8.5	19 51.1	8.2 58.0													
	11	345 39.7 34.3	271 52.4	8.5	19 42.9	8.3 58.0													
	12	0 39.6 N21 34.7	286 19.9	8.6	N19 34.6	8.4 58.0													
	13	15 39.5 35.1	300 47.5	8.6	19 26.2	8.5 58.0													
	14	30 39.4 35.5	315 15.1	8.6	19 17.7	8.7 58.1													
	15	45 39.3 35.8	329 42.7	8.7	19 09.0	8.8 58.1													
	16	60 39.3 36.2	344 10.4	8.7	19 00.2	8.8 58.1													
	17	75 39.2 36.6	358 38.1	8.7	18 51.4	9.0 58.1													
	18	90 39.1 N21 37.0	13 05.8	8.8	N18 42.4	9.2 58.2													
	19	105 39.0 37.4	27 33.6	8.8	18 33.2	9.2 58.2													
	20	120 38.9 37.8	42 01.4	8.8	18 24.0	9.3 58.2													
	21	135 38.8 38.2	56 29.2	8.9	18 14.7	9.5 58.2													
	22	150 38.8 38.6	70 57.1	8.9	18 05.2	9.5 58.2													
23	165 38.7 38.9	85 25.0	9.0	17 55.7	9.7 58.3														
29 S E X T A F E I R A	00	180 38.6 N21 39.3	99 53.0	9.0	N17 46.0	9.8 58.3	N 40	19 20	19 52	20 32	23 43	24 23	00 23	00 58					
	01	195 38.5 39.7	114 21.0	9.0	17 36.2	9.8 58.3	35	19 06	19 35	20 11	23 30	24 12	00 12	00 50					
	02	210 38.4 40.1	128 49.0	9.1	17 26.4	10.0 58.3	30	18 55	19 21	19 54	23 18	24 02	00 02	00 43					
	03	225 38.3 40.5	143 17.1	9.1	17 16.4	10.1 58.4	20	18 34	18 59	19 27	22 58	23 46	24 31	00 31					
	04	240 38.3 40.8	157 45.2	9.1	17 06.3	10.2 58.4	N 10	18 17	18 40	19 07	22 41	23 32	24 21	00 21					
	05	255 38.2 41.2	172 13.3	9.2	16 56.1	10.3 58.4	0	18 01	18 23	18 49	22 24	23 18	24 11	00 11					
	06	270 38.1 N21 41.6	186 41.5	9.2	N16 45.8	10.4 58.4	S 10	17 45	18 08	18 34	22 08	23 05	24 01	00 01					
	07	285 38.0 42.0	201 09.7	9.2	16 35.4	10.5 58.5	20	17 28	17 52	18 19	21 50	22 50	23 50	24 50					
	08	300 37.9 42.4	215 37.9	9.3	16 24.9	10.6 58.5	30	17 09	17 35	18 04	21 30	22 33	23 38	24 42					
	09	315 37.8 42.7	230 06.2	9.4	16 14.3	10.7 58.5	35	16 58	17 25	17 56	21 18	22 24	23 31	24 38					
	10	330 37.8 43.1	244 34.6	9.3	16 03.6	10.8 58.5	40	16 45	17 15	17 48	21 04	22 12	23 22	24 33					
	11	345 37.7 43.5	259 02.9	9.4	15 52.8	10.9 58.5	45	16 30	17 03	17 39	20 48	21 59	23 13	24 28					
	12	0 37.6 N21 43.9	273 31.3	9.4	N15 41.9	11.0 58.6	S 50	16 11	16 48	17 29	20 28	21 43	23 01	24 21					
	13	15 37.5 44.2	287 59.7	9.5	15 30.9	11.1 58.6	52	16 02	16 42	17 24	20 18	21 35	22 56	24 18					
	14	30 37.4 44.6	302 28.2	9.5	15 19.8	11.2 58.6	54	15 52	16 34	17 19	20 07	21 26	22 49	24 14					
	15	45 37.3 45.0	316 56.7	9.5	15 08.6	11.2 58.6	56	15 41	16 27	17 14	19 55	21 17	22 43	24 10					
	16	60 37.2 45.4	331 25.2	9.6	14 57.4	11.4 58.7	58	15 29	16 18	17 08	19 41	21 06	22 35	24 06					
	17	75 37.2 45.7	345 53.8	9.6	14 46.0	11.4 58.7	S 60	15 14	16 08	17 02									