

Mon Jul 1, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.2' SD = 15.7' | | SD = 16.0' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 278°45.5' | 179°04.0' | N 23°08.2' | 204°29.2' | 7.3' | N 19°47.8' | 6.3' | 58.4' |
| 1 | 293°48.0' | 194°03.8' | N 23°08.0' | 218°55.6' | 7.2' | N 19°54.1' | 6.2' | 58.5' |
| 2 | 308°50.4' | 209°03.7' | N 23°07.9' | 233°21.8' | 7.1' | N 20°00.3' | 6.1' | 58.5' |
| 3 | 323°52.9' | 224°03.6' | N 23°07.7' | 247°47.9' | 7.1' | N 20°06.4' | 6.0' | 58.5' |
| 4 | 338°55.4' | 239°03.5' | N 23°07.5' | 262°14.0' | 7.0' | N 20°12.4' | 5.9' | 58.6' |
| 5 | 353°57.8' | 254°03.4' | N 23°07.4' | 276°39.9' | 6.9' | N 20°18.3' | 5.7' | 58.6' |
| 6 | 9°00.3' | 269°03.2' | N 23°07.2' | 291°05.8' | 6.8' | N 20°24.0' | 5.6' | 58.6' |
| 7 | 24°02.8' | 284°03.1' | N 23°07.1' | 305°31.6' | 6.7' | N 20°29.6' | 5.5' | 58.7' |
| 8 | 39°05.2' | 299°03.0' | N 23°06.9' | 319°57.3' | 6.6' | N 20°35.1' | 5.4' | 58.7' |
| 9 | 54°07.7' | 314°02.9' | N 23°06.7' | 334°22.9' | 6.5' | N 20°40.5' | 5.3' | 58.7' |
| 10 | 69°10.2' | 329°02.7' | N 23°06.6' | 348°48.5' | 6.5' | N 20°45.8' | 5.1' | 58.8' |
| 11 | 84°12.6' | 344°02.6' | N 23°06.4' | 3°13.9' | 6.4' | N 20°50.9' | 5.0' | 58.8' |
| 12 | 99°15.1' | 359°02.5' | N 23°06.2' | 17°39.3' | 6.3' | N 20°55.9' | 4.9' | 58.8' |
| 13 | 114°17.5' | 14°02.4' | N 23°06.1' | 32°04.6' | 6.2' | N 21°00.8' | 4.7' | 58.8' |
| 14 | 129°20.0' | 29°02.3' | N 23°05.9' | 46°29.8' | 6.1' | N 21°05.5' | 4.6' | 58.9' |
| 15 | 144°22.5' | 44°02.1' | N 23°05.7' | 60°54.9' | 6.1' | N 21°10.1' | 4.5' | 58.9' |
| 16 | 159°24.9' | 59°02.0' | N 23°05.5' | 75°20.0' | 6.0' | N 21°14.6' | 4.3' | 58.9' |
| 17 | 174°27.4' | 74°01.9' | N 23°05.4' | 89°45.0' | 5.9' | N 21°18.9' | 4.2' | 59.0' |
| 18 | 189°29.9' | 89°01.8' | N 23°05.2' | 104°09.9' | 5.8' | N 21°23.1' | 4.1' | 59.0' |
| 19 | 204°32.3' | 104°01.6' | N 23°05.0' | 118°34.7' | 5.8' | N 21°27.2' | 3.9' | 59.0' |
| 20 | 219°34.8' | 119°01.5' | N 23°04.9' | 132°59.4' | 5.7' | N 21°31.2' | 3.8' | 59.1' |
| 21 | 234°37.3' | 134°01.4' | N 23°04.7' | 147°24.1' | 5.6' | N 21°35.0' | 3.7' | 59.1' |
| 22 | 249°39.7' | 149°01.3' | N 23°04.5' | 161°48.7' | 5.5' | N 21°38.6' | 3.5' | 59.1' |
| 23 | 264°42.2' | 164°01.2' | N 23°04.3' | 176°13.3' | 5.5' | N 21°42.2' | 3.4' | 59.1' |

Tue Jul 2, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.2' SD = 15.7' | | SD = 16.2' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 279°44.7' | 179°01.0' | N 23°04.2' | 190°37.7' | 5.4' | N 21°45.5' | 3.2' | 59.2' |
| 1 | 294°47.1' | 194°00.9' | N 23°04.0' | 205°02.1' | 5.3' | N 21°48.8' | 3.1' | 59.2' |
| 2 | 309°49.6' | 209°00.8' | N 23°03.8' | 219°26.5' | 5.3' | N 21°51.9' | 3.0' | 59.2' |
| 3 | 324°52.0' | 224°00.7' | N 23°03.6' | 233°50.8' | 5.2' | N 21°54.8' | 2.8' | 59.2' |
| 4 | 339°54.5' | 239°00.6' | N 23°03.4' | 248°15.0' | 5.2' | N 21°57.7' | 2.7' | 59.3' |
| 5 | 354°57.0' | 254°00.4' | N 23°03.3' | 262°39.1' | 5.1' | N 22°00.3' | 2.5' | 59.3' |
| 6 | 9°59.4' | 269°00.3' | N 23°03.1' | 277°03.2' | 5.0' | N 22°02.8' | 2.4' | 59.3' |
| 7 | 25°01.9' | 284°00.2' | N 23°02.9' | 291°27.3' | 5.0' | N 22°05.2' | 2.2' | 59.4' |
| 8 | 40°04.4' | 299°00.1' | N 23°02.7' | 305°51.3' | 4.9' | N 22°07.4' | 2.1' | 59.4' |
| 9 | 55°06.8' | 313°60.0' | N 23°02.5' | 320°15.2' | 4.9' | N 22°09.5' | 1.9' | 59.4' |
| 10 | 70°09.3' | 328°59.8' | N 23°02.4' | 334°39.1' | 4.8' | N 22°11.4' | 1.8' | 59.4' |
| 11 | 85°11.8' | 343°59.7' | N 23°02.2' | 349°02.9' | 4.8' | N 22°13.2' | 1.6' | 59.5' |
| 12 | 100°14.2' | 358°59.6' | N 23°02.0' | 3°26.7' | 4.7' | N 22°14.9' | 1.5' | 59.5' |
| 13 | 115°16.7' | 13°59.5' | N 23°01.8' | 17°50.4' | 4.7' | N 22°16.3' | 1.3' | 59.5' |
| 14 | 130°19.2' | 28°59.4' | N 23°01.6' | 32°14.1' | 4.6' | N 22°17.7' | 1.2' | 59.5' |
| 15 | 145°21.6' | 43°59.2' | N 23°01.4' | 46°37.7' | 4.6' | N 22°18.8' | 1.0' | 59.5' |
| 16 | 160°24.1' | 58°59.1' | N 23°01.2' | 61°01.3' | 4.6' | N 22°19.8' | 0.9' | 59.6' |
| 17 | 175°26.5' | 73°59.0' | N 23°01.1' | 75°24.9' | 4.5' | N 22°20.7' | 0.7' | 59.6' |
| 18 | 190°29.0' | 88°58.9' | N 23°00.9' | 89°48.4' | 4.5' | N 22°21.4' | 0.6' | 59.6' |
| 19 | 205°31.5' | 103°58.8' | N 23°00.7' | 104°11.9' | 4.5' | N 22°22.0' | 0.4' | 59.6' |
| 20 | 220°33.9' | 118°58.7' | N 23°00.5' | 118°35.4' | 4.4' | N 22°22.4' | 0.2' | 59.7' |
| 21 | 235°36.4' | 133°58.5' | N 23°00.3' | 132°58.8' | 4.4' | N 22°22.6' | 0.1' | 59.7' |
| 22 | 250°38.9' | 148°58.4' | N 23°00.1' | 147°22.2' | 4.4' | N 22°22.7' | 0.1' | 59.7' |
| 23 | 265°41.3' | 163°58.3' | N 22°59.9' | 161°45.6' | 4.3' | N 22°22.7' | 0.2' | 59.7' |

Wed Jul 3, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.2' SD = 15.7' | | SD = 16.4' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 280°43.8' | 178°58.2' | N 22°59.7' | 176°08.9' | 4.3' | N 22°22.4' | 0.4' | 59.7' |
| 1 | 295°46.3' | 193°58.1' | N 22°59.5' | 190°32.2' | 4.3' | N 22°22.0' | 0.5' | 59.8' |
| 2 | 310°48.7' | 208°57.9' | N 22°59.3' | 204°55.5' | 4.3' | N 22°21.5' | 0.7' | 59.8' |
| 3 | 325°51.2' | 223°57.8' | N 22°59.1' | 219°18.8' | 4.3' | N 22°20.8' | 0.9' | 59.8' |
| 4 | 340°53.7' | 238°57.7' | N 22°58.9' | 233°42.1' | 4.2' | N 22°20.0' | 1.0' | 59.8' |
| 5 | 355°56.1' | 253°57.6' | N 22°58.7' | 248°05.3' | 4.2' | N 22°19.0' | 1.2' | 59.8' |
| 6 | 10°58.6' | 268°57.5' | N 22°58.6' | 262°28.5' | 4.2' | N 22°17.8' | 1.3' | 59.9' |
| 7 | 26°01.0' | 283°57.4' | N 22°58.4' | 276°51.7' | 4.2' | N 22°16.5' | 1.5' | 59.9' |
| 8 | 41°03.5' | 298°57.2' | N 22°58.2' | 291°14.9' | 4.2' | N 22°15.0' | 1.6' | 59.9' |
| 9 | 56°06.0' | 313°57.1' | N 22°58.0' | 305°38.1' | 4.2' | N 22°13.3' | 1.8' | 59.9' |
| 10 | 71°08.4' | 328°57.0' | N 22°57.8' | 320°01.3' | 4.2' | N 22°11.5' | 2.0' | 59.9' |
| 11 | 86°10.9' | 343°56.9' | N 22°57.6' | 334°24.5' | 4.2' | N 22°09.6' | 2.1' | 59.9' |
| 12 | 101°13.4' | 358°56.8' | N 22°57.4' | 348°47.7' | 4.2' | N 22°07.5' | 2.3' | 60.0' |
| 13 | 116°15.8' | 13°56.7' | N 22°57.2' | 3°10.9' | 4.2' | N 22°05.2' | 2.4' | 60.0' |
| 14 | 131°18.3' | 28°56.5' | N 22°57.0' | 17°34.1' | 4.2' | N 22°02.8' | 2.6' | 60.0' |
| 15 | 146°20.8' | 43°56.4' | N 22°56.7' | 31°57.3' | 4.2' | N 22°00.2' | 2.7' | 60.0' |
| 16 | 161°23.2' | 58°56.3' | N 22°56.5' | 46°20.5' | 4.2' | N 21°57.4' | 2.9' | 60.0' |
| 17 | 176°25.7' | 73°56.2' | N 22°56.3' | 60°43.7' | 4.2' | N 21°54.5' | 3.1' | 60.0' |
| 18 | 191°28.2' | 88°56.1' | N 22°56.1' | 75°06.9' | 4.2' | N 21°51.5' | 3.2' | 60.1' |
| 19 | 206°30.6' | 103°56.0' | N 22°55.9' | 89°30.1' | 4.2' | N 21°48.2' | 3.4' | 60.1' |
| 20 | 221°33.1' | 118°55.9' | N 22°55.7' | 103°53.3' | 4.3' | N 21°44.9' | 3.5' | 60.1' |
| 21 | 236°35.5' | 133°55.7' | N 22°55.5' | 118°16.6' | 4.3' | N 21°41.3' | 3.7' | 60.1' |
| 22 | 251°38.0' | 148°55.6' | N 22°55.3' | 132°39.9' | 4.3' | N 21°37.7' | 3.8' | 60.1' |
| 23 | 266°40.5' | 163°55.5' | N 22°55.1' | 147°03.1' | 4.3' | N 21°33.8' | 4.0' | 60.1' |

Thu Jul 4, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.2' SD = 15.7' | | SD = 16.4' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 281°42.9' | 178°55.4' | N 22°54.9' | 161°26.5' | 4.3' | N 21°29.8' | 4.1' | 60.1' |
| 1 | 296°45.4' | 193°55.3' | N 22°54.7' | 175°49.8' | 4.4' | N 21°25.7' | 4.3' | 60.1' |
| 2 | 311°47.9' | 208°55.2' | N 22°54.5' | 190°13.2' | 4.4' | N 21°21.4' | 4.4' | 60.1' |
| 3 | 326°50.3' | 223°55.1' | N 22°54.3' | 204°36.5' | 4.4' | N 21°17.0' | 4.6' | 60.2' |
| 4 | 341°52.8' | 238°54.9' | N 22°54.0' | 218°59.9' | 4.4' | N 21°12.4' | 4.7' | 60.2' |
| 5 | 356°55.3' | 253°54.8' | N 22°53.8' | 233°23.4' | 4.5' | N 21°07.6' | 4.9' | 60.2' |
| 6 | 11°57.7' | 268°54.7' | N 22°53.6' | 247°46.9' | 4.5' | N 21°02.7' | 5.0' | 60.2' |
| 7 | 27°00.2' | 283°54.6' | N 22°53.4' | 262°10.4' | 4.5' | N 20°57.7' | 5.2' | 60.2' |
| 8 | 42°02.7' | 298°54.5' | N 22°53.2' | 276°33.9' | 4.6' | N 20°52.5' | 5.3' | 60.2' |
| 9 | 57°05.1' | 313°54.4' | N 22°53.0' | 290°57.5' | 4.6' | N 20°47.1' | 5.5' | 60.2' |
| 10 | 72°07.6' | 328°54.3' | N 22°52.8' | 305°21.1' | 4.7' | N 20°41.6' | 5.6' | 60.2' |
| 11 | 87°10.0' | 343°54.1' | N 22°52.5' | 319°44.8' | 4.7' | N 20°36.0' | 5.8' | 60.2' |
| 12 | 102°12.5' | 358°54.0' | N 22°52.3' | 334°08.5' | 4.7' | N 20°30.2' | 5.9' | 60.2' |
| 13 | 117°15.0' | 13°53.9' | N 22°52.1' | 348°32.2' | 4.8' | N 20°24.3' | 6.1' | 60.2' |
| 14 | 132°17.4' | 28°53.8' | N 22°51.9' | 2°56.0' | 4.8' | N 20°18.2' | 6.2' | 60.2' |
| 15 | 147°19.9' | 43°53.7' | N 22°51.7' | 17°19.8' | 4.9' | N 20°12.0' | 6.4' | 60.2' |
| 16 | 162°22.4' | 58°53.6' | N 22°51.4' | 31°43.7' | 4.9' | N 20°05.6' | 6.5' | 60.3' |
| 17 | 177°24.8' | 73°53.5' | N 22°51.2' | 46°07.6' | 5.0' | N 19°59.1' | 6.6' | 60.3' |
| 18 | 192°27.3' | 88°53.4' | N 22°51.0' | 60°31.6' | 5.0' | N 19°52.5' | 6.8' | 60.3' |
| 19 | 207°29.8' | 103°53.2' | N 22°50.8' | 74°55.6' | 5.1' | N 19°45.7' | 6.9' | 60.3' |
| 20 | 222°32.2' | 118°53.1' | N 22°50.6' | 89°19.7' | 5.1' | N 19°38.8' | 7.0' | 60.3' |
| 21 | 237°34.7' | 133°53.0' | N 22°50.3' | 103°43.8' | 5.2' | N 19°31.8' | 7.2' | 60.3' |
| 22 | 252°37.1' | 148°52.9' | N 22°50.1' | 118°08.0' | 5.2' | N 19°24.6' | 7.3' | 60.3' |
| 23 | 267°39.6' | 163°52.8' | N 22°49.9' | 132°32.3' | 5.3' | N 19°17.3' | 7.4' | 60.3' |

Fri Jul 5, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|-------|-------|
| | GHA | d = 0.2' SD = 15.7' | | SD = 16.4' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 282°42.1' | 178°52.7' | N 22°49.7' | 146°56.6' | 5.4' | N 19°09.8' | 7.6' | 60.3' |
| 1 | 297°44.5' | 193°52.6' | N 22°49.4' | 161°20.9' | 5.4' | N 19°02.3' | 7.7' | 60.3' |
| 2 | 312°47.0' | 208°52.5' | N 22°49.2' | 175°45.3' | 5.5' | N 18°54.6' | 7.8' | 60.3' |
| 3 | 327°49.5' | 223°52.4' | N 22°49.0' | 190°09.8' | 5.5' | N 18°46.7' | 8.0' | 60.3' |
| 4 | 342°51.9' | 238°52.2' | N 22°48.7' | 204°34.3' | 5.6' | N 18°38.8' | 8.1' | 60.3' |
| 5 | 357°54.4' | 253°52.1' | N 22°48.5' | 218°58.9' | 5.7' | N 18°30.7' | 8.2' | 60.3' |
| 6 | 12°56.9' | 268°52.0' | N 22°48.3' | 233°23.6' | 5.7' | N 18°22.4' | 8.3' | 60.3' |
| 7 | 27°59.3' | 283°51.9' | N 22°48.0' | 247°48.3' | 5.8' | N 18°14.1' | 8.5' | 60.3' |
| 8 | 43°01.8' | 298°51.8' | N 22°47.8' | 262°13.1' | 5.9' | N 18°05.6' | 8.6' | 60.3' |
| 9 | 58°04.3' | 313°51.7' | N 22°47.6' | 276°37.9' | 5.9' | N 17°57.1' | 8.7' | 60.3' |
| 10 | 73°06.7' | 328°51.6' | N 22°47.4' | 291°02.9' | 6.0' | N 17°48.4' | 8.8' | 60.3' |
| 11 | 88°09.2' | 343°51.5' | N 22°47.1' | 305°27.8' | 6.0' | N 17°39.5' | 8.9' | 60.3' |
| 12 | 103°11.6' | 358°51.4' | N 22°46.9' | 319°52.9' | 6.1' | N 17°30.6' | 9.1' | 60.3' |
| 13 | 118°14.1' | 13°51.3' | N 22°46.6' | 334°18.0' | 6.2' | N 17°21.6' | 9.2' | 60.3' |
| 14 | 133°16.6' | 28°51.2' | N 22°46.4' | 348°43.2' | 6.3' | N 17°12.4' | 9.3' | 60.3' |
| 15 | 148°19.0' | 43°51.0' | N 22°46.2' | 3°08.4' | 6.3' | N 17°03.1' | 9.4' | 60.3' |
| 16 | 163°21.5' | 58°50.9' | N 22°45.9' | 17°33.8' | 6.4' | N 16°53.7' | 9.5' | 60.3' |
| 17 | 178°24.0' | 73°50.8' | N 22°45.7' | 31°59.2' | 6.5' | N 16°44.2' | 9.6' | 60.3' |
| 18 | 193°26.4' | 88°50.7' | N 22°45.5' | 46°24.6' | 6.5' | N 16°34.6' | 9.7' | 60.2' |
| 19 | 208°28.9' | 103°50.6' | N 22°45.2' | 60°50.1' | 6.6' | N 16°24.9' | 9.8' | 60.2' |
| 20 | 223°31.4' | 118°50.5' | N 22°45.0' | 75°15.7' | 6.7' | N 16°15.1' | 9.9' | 60.2' |
| 21 | 238°33.8' | 133°50.4' | N 22°44.7' | 89°41.4' | 6.7' | N 16°05.2' | 10.0' | 60.2' |
| 22 | 253°36.3' | 148°50.3' | N 22°44.5' | 104°07.2' | 6.8' | N 15°55.2' | 10.1' | 60.2' |
| 23 | 268°38.8' | 163°50.2' | N 22°44.3' | 118°33.0' | 6.9' | N 15°45.0' | 10.2' | 60.2' |

Sat Jul 6, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|-------|-------|
| | GHA | d = 0.3' SD = 15.7' | | SD = 16.4' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 283°41.2' | 178°50.1' | N 22°44.0' | 132°58.9' | 7.0' | N 15°34.8' | 10.3' | 60.2' |
| 1 | 298°43.7' | 193°50.0' | N 22°43.8' | 147°24.8' | 7.0' | N 15°24.5' | 10.4' | 60.2' |
| 2 | 313°46.1' | 208°49.9' | N 22°43.5' | 161°50.9' | 7.1' | N 15°14.1' | 10.5' | 60.2' |
| 3 | 328°48.6' | 223°49.7' | N 22°43.3' | 176°17.0' | 7.2' | N 15°03.6' | 10.6' | 60.2' |
| 4 | 343°51.1' | 238°49.6' | N 22°43.0' | 190°43.1' | 7.2' | N 14°53.0' | 10.7' | 60.2' |
| 5 | 358°53.5' | 253°49.5' | N 22°42.8' | 205°09.4' | 7.3' | N 14°42.3' | 10.8' | 60.2' |
| 6 | 13°56.0' | 268°49.4' | N 22°42.5' | 219°35.7' | 7.4' | N 14°31.5' | 10.9' | 60.2' |
| 7 | 28°58.5' | 283°49.3' | N 22°42.3' | 234°02.1' | 7.5' | N 14°20.6' | 11.0' | 60.1' |
| 8 | 44°00.9' | 298°49.2' | N 22°42.1' | 248°28.6' | 7.5' | N 14°09.7' | 11.0' | 60.1' |
| 9 | 59°03.4' | 313°49.1' | N 22°41.8' | 262°55.1' | 7.6' | N 13°58.6' | 11.1' | 60.1' |
| 10 | 74°05.9' | 328°49.0' | N 22°41.6' | 277°21.7' | 7.7' | N 13°47.5' | 11.2' | 60.1' |
| 11 | 89°08.3' | 343°48.9' | N 22°41.3' | 291°48.4' | 7.8' | N 13°36.3' | 11.3' | 60.1' |
| 12 | 104°10.8' | 358°48.8' | N 22°41.1' | 306°15.1' | 7.8' | N 13°25.0' | 11.4' | 60.1' |
| 13 | 119°13.3' | 13°48.7' | N 22°40.8' | 320°42.0' | 7.9' | N 13°13.7' | 11.4' | 60.1' |
| 14 | 134°15.7' | 28°48.6' | N 22°40.6' | 335°08.9' | 8.0' | N 13°02.2' | 11.5' | 60.1' |
| 15 | 149°18.2' | 43°48.5' | N 22°40.3' | 349°35.8' | 8.0' | N 12°50.7' | 11.6' | 60.1' |
| 16 | 164°20.6' | 58°48.4' | N 22°40.0' | 4°02.9' | 8.1' | N 12°39.1' | 11.7' | 60.0' |
| 17 | 179°23.1' | 73°48.3' | N 22°39.8' | 18°30.0' | 8.2' | N 12°27.4' | 11.7' | 60.0' |
| 18 | 194°25.6' | 88°48.2' | N 22°39.5' | 32°57.1' | 8.2' | N 12°15.7' | 11.8' | 60.0' |
| 19 | 209°28.0' | 103°48.1' | N 22°39.3' | 47°24.4' | 8.3' | N 12°03.9' | 11.9' | 60.0' |
| 20 | 224°30.5' | 118°48.0' | N 22°39.0' | 61°51.7' | 8.4' | N 11°52.0' | 11.9' | 60.0' |
| 21 | 239°33.0' | 133°47.9' | N 22°38.8' | 76°19.1' | 8.5' | N 11°40.1' | 12.0' | 60.0' |
| 22 | 254°35.4' | 148°47.7' | N 22°38.5' | 90°46.5' | 8.5' | N 11°28.1' | 12.1' | 60.0' |
| 23 | 269°37.9' | 163°47.6' | N 22°38.2' | 105°14.1' | 8.6' | N 11°16.0' | 12.1' | 60.0' |

Sun Jul 7, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|-------|-------|
| | GHA | d = 0.3' SD = 15.7' | | SD = 16.3' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 284°40.4' | 178°47.5' | N 22°38.0' | 119°41.6' | 8.7' | N 11°03.9' | 12.2' | 59.9' |
| 1 | 299°42.8' | 193°47.4' | N 22°37.7' | 134°09.3' | 8.7' | N 10°51.7' | 12.2' | 59.9' |
| 2 | 314°45.3' | 208°47.3' | N 22°37.5' | 148°37.0' | 8.8' | N 10°39.5' | 12.3' | 59.9' |
| 3 | 329°47.7' | 223°47.2' | N 22°37.2' | 163°04.8' | 8.9' | N 10°27.1' | 12.4' | 59.9' |
| 4 | 344°50.2' | 238°47.1' | N 22°36.9' | 177°32.7' | 8.9' | N 10°14.8' | 12.4' | 59.9' |
| 5 | 359°52.7' | 253°47.0' | N 22°36.7' | 192°00.6' | 9.0' | N 10°02.4' | 12.5' | 59.9' |
| 6 | 14°55.1' | 268°46.9' | N 22°36.4' | 206°28.6' | 9.0' | N 9°49.9' | 12.5' | 59.9' |
| 7 | 29°57.6' | 283°46.8' | N 22°36.2' | 220°56.6' | 9.1' | N 9°37.4' | 12.6' | 59.8' |
| 8 | 45°00.1' | 298°46.7' | N 22°35.9' | 235°24.7' | 9.2' | N 9°24.8' | 12.6' | 59.8' |
| 9 | 60°02.5' | 313°46.6' | N 22°35.6' | 249°52.9' | 9.2' | N 9°12.2' | 12.7' | 59.8' |
| 10 | 75°05.0' | 328°46.5' | N 22°35.4' | 264°21.1' | 9.3' | N 8°59.6' | 12.7' | 59.8' |
| 11 | 90°07.5' | 343°46.4' | N 22°35.1' | 278°49.4' | 9.4' | N 8°46.9' | 12.7' | 59.8' |
| 12 | 105°09.9' | 358°46.3' | N 22°34.8' | 293°17.8' | 9.4' | N 8°34.1' | 12.8' | 59.8' |
| 13 | 120°12.4' | 13°46.2' | N 22°34.6' | 307°46.2' | 9.5' | N 8°21.3' | 12.8' | 59.7' |
| 14 | 135°14.9' | 28°46.1' | N 22°34.3' | 322°14.6' | 9.5' | N 8°08.5' | 12.9' | 59.7' |
| 15 | 150°17.3' | 43°46.0' | N 22°34.0' | 336°43.2' | 9.6' | N 7°55.6' | 12.9' | 59.7' |
| 16 | 165°19.8' | 58°45.9' | N 22°33.8' | 351°11.8' | 9.6' | N 7°42.7' | 12.9' | 59.7' |
| 17 | 180°22.2' | 73°45.8' | N 22°33.5' | 5°40.4' | 9.7' | N 7°29.8' | 13.0' | 59.7' |
| 18 | 195°24.7' | 88°45.7' | N 22°33.2' | 20°09.1' | 9.8' | N 7°16.8' | 13.0' | 59.6' |
| 19 | 210°27.2' | 103°45.6' | N 22°32.9' | 34°37.9' | 9.8' | N 7°03.8' | 13.0' | 59.6' |
| 20 | 225°29.6' | 118°45.5' | N 22°32.7' | 49°06.7' | 9.9' | N 6°50.8' | 13.1' | 59.6' |
| 21 | 240°32.1' | 133°45.4' | N 22°32.4' | 63°35.5' | 9.9' | N 6°37.7' | 13.1' | 59.6' |
| 22 | 255°34.6' | 148°45.3' | N 22°32.1' | 78°04.4' | 10.0' | N 6°24.6' | 13.1' | 59.6' |
| 23 | 270°37.0' | 163°45.2' | N 22°31.8' | 92°33.4' | 10.0' | N 6°11.5' | 13.2' | 59.5' |

Mon Jul 8, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|-----------|-------|-------|
| | GHA | d = 0.3' SD = 15.7' | | SD = 16.2' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 285°39.5' | 178°45.1' | N 22°31.6' | 107°02.4' | 10.1' | N 5°58.3' | 13.2' | 59.5' |
| 1 | 300°42.0' | 193°45.0' | N 22°31.3' | 121°31.5' | 10.1' | N 5°45.1' | 13.2' | 59.5' |
| 2 | 315°44.4' | 208°44.9' | N 22°31.0' | 136°00.6' | 10.2' | N 5°31.9' | 13.2' | 59.5' |
| 3 | 330°46.9' | 223°44.8' | N 22°30.7' | 150°29.8' | 10.2' | N 5°18.7' | 13.2' | 59.5' |
| 4 | 345°49.3' | 238°44.7' | N 22°30.5' | 164°59.0' | 10.3' | N 5°05.5' | 13.3' | 59.4' |
| 5 | 0°51.8' | 253°44.6' | N 22°30.2' | 179°28.2' | 10.3' | N 4°52.2' | 13.3' | 59.4' |
| 6 | 15°54.3' | 268°44.5' | N 22°29.9' | 193°57.5' | 10.3' | N 4°38.9' | 13.3' | 59.4' |
| 7 | 30°56.7' | 283°44.4' | N 22°29.6' | 208°26.9' | 10.4' | N 4°25.7' | 13.3' | 59.4' |
| 8 | 45°59.2' | 298°44.3' | N 22°29.3' | 222°56.3' | 10.4' | N 4°12.3' | 13.3' | 59.4' |
| 9 | 61°01.7' | 313°44.2' | N 22°29.1' | 237°25.7' | 10.5' | N 3°59.0' | 13.3' | 59.3' |
| 10 | 76°04.1' | 328°44.1' | N 22°28.8' | 251°55.2' | 10.5' | N 3°45.7' | 13.3' | 59.3' |
| 11 | 91°06.6' | 343°44.0' | N 22°28.5' | 266°24.7' | 10.6' | N 3°32.3' | 13.4' | 59.3' |
| 12 | 106°09.1' | 358°43.9' | N 22°28.2' | 280°54.3' | 10.6' | N 3°19.0' | 13.4' | 59.3' |
| 13 | 121°11.5' | 13°43.8' | N 22°27.9' | 295°23.9' | 10.6' | N 3°05.6' | 13.4' | 59.3' |
| 14 | 136°14.0' | 28°43.7' | N 22°27.6' | 309°53.5' | 10.7' | N 2°52.3' | 13.4' | 59.2' |
| 15 | 151°16.5' | 43°43.6' | N 22°27.4' | 324°23.2' | 10.7' | N 2°38.9' | 13.4' | 59.2' |
| 16 | 166°18.9' | 58°43.5' | N 22°27.1' | 338°52.9' | 10.7' | N 2°25.5' | 13.4' | 59.2' |
| 17 | 181°21.4' | 73°43.4' | N 22°26.8' | 353°22.6' | 10.8' | N 2°12.1' | 13.4' | 59.2' |
| 18 | 196°23.8' | 88°43.4' | N 22°26.5' | 7°52.4' | 10.8' | N 1°58.7' | 13.4' | 59.2' |
| 19 | 211°26.3' | 103°43.3' | N 22°26.2' | 22°22.2' | 10.8' | N 1°45.4' | 13.4' | 59.1' |
| 20 | 226°28.8' | 118°43.2' | N 22°25.9' | 36°52.1' | 10.9' | N 1°32.0' | 13.4' | 59.1' |
| 21 | 241°31.2' | 133°43.1' | N 22°25.6' | 51°22.0' | 10.9' | N 1°18.6' | 13.4' | 59.1' |
| 22 | 256°33.7' | 148°43.0' | N 22°25.3' | 65°51.9' | 10.9' | N 1°05.2' | 13.4' | 59.1' |
| 23 | 271°36.2' | 163°42.9' | N 22°25.1' | 80°21.8' | 11.0' | N 0°51.8' | 13.4' | 59.0' |

Tue Jul 9, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|-----------|-------|-------|
| | GHA | d = 0.3' SD = 15.7' | | SD = 16.0' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 286°38.6' | 178°42.8' | N 22°24.8' | 94°51.8' | 11.0' | N 0°38.5' | 13.4' | 59.0' |
| 1 | 301°41.1' | 193°42.7' | N 22°24.5' | 109°21.8' | 11.0' | N 0°25.1' | 13.4' | 59.0' |
| 2 | 316°43.6' | 208°42.6' | N 22°24.2' | 123°51.8' | 11.1' | N 0°11.7' | 13.3' | 59.0' |
| 3 | 331°46.0' | 223°42.5' | N 22°23.9' | 138°21.9' | 11.1' | S 0°01.6' | 13.3' | 58.9' |
| 4 | 346°48.5' | 238°42.4' | N 22°23.6' | 152°51.9' | 11.1' | S 0°14.9' | 13.3' | 58.9' |
| 5 | 1°51.0' | 253°42.3' | N 22°23.3' | 167°22.0' | 11.1' | S 0°28.2' | 13.3' | 58.9' |
| 6 | 16°53.4' | 268°42.2' | N 22°23.0' | 181°52.2' | 11.1' | S 0°41.6' | 13.3' | 58.9' |
| 7 | 31°55.9' | 283°42.1' | N 22°22.7' | 196°22.3' | 11.2' | S 0°54.9' | 13.3' | 58.9' |
| 8 | 46°58.3' | 298°42.0' | N 22°22.4' | 210°52.5' | 11.2' | S 1°08.1' | 13.3' | 58.8' |
| 9 | 62°00.8' | 313°41.9' | N 22°22.1' | 225°22.7' | 11.2' | S 1°21.4' | 13.2' | 58.8' |
| 10 | 77°03.3' | 328°41.8' | N 22°21.8' | 239°52.9' | 11.2' | S 1°34.6' | 13.2' | 58.8' |
| 11 | 92°05.7' | 343°41.7' | N 22°21.5' | 254°23.1' | 11.2' | S 1°47.9' | 13.2' | 58.8' |
| 12 | 107°08.2' | 358°41.7' | N 22°21.2' | 268°53.3' | 11.3' | S 2°01.1' | 13.2' | 58.7' |
| 13 | 122°10.7' | 13°41.6' | N 22°20.9' | 283°23.6' | 11.3' | S 2°14.3' | 13.2' | 58.7' |
| 14 | 137°13.1' | 28°41.5' | N 22°20.6' | 297°53.9' | 11.3' | S 2°27.4' | 13.1' | 58.7' |
| 15 | 152°15.6' | 43°41.4' | N 22°20.3' | 312°24.2' | 11.3' | S 2°40.6' | 13.1' | 58.7' |
| 16 | 167°18.1' | 58°41.3' | N 22°20.0' | 326°54.5' | 11.3' | S 2°53.7' | 13.1' | 58.6' |
| 17 | 182°20.5' | 73°41.2' | N 22°19.7' | 341°24.8' | 11.3' | S 3°06.8' | 13.1' | 58.6' |
| 18 | 197°23.0' | 88°41.1' | N 22°19.4' | 355°55.1' | 11.3' | S 3°19.8' | 13.0' | 58.6' |
| 19 | 212°25.4' | 103°41.0' | N 22°19.1' | 10°25.5' | 11.4' | S 3°32.9' | 13.0' | 58.6' |
| 20 | 227°27.9' | 118°40.9' | N 22°18.8' | 24°55.8' | 11.4' | S 3°45.9' | 13.0' | 58.6' |
| 21 | 242°30.4' | 133°40.8' | N 22°18.5' | 39°26.2' | 11.4' | S 3°58.8' | 12.9' | 58.5' |
| 22 | 257°32.8' | 148°40.7' | N 22°18.2' | 53°56.6' | 11.4' | S 4°11.8' | 12.9' | 58.5' |
| 23 | 272°35.3' | 163°40.6' | N 22°17.9' | 68°27.0' | 11.4' | S 4°24.7' | 12.9' | 58.5' |

Wed Jul 10, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|-----------|-------|-------|
| | GHA | d = 0.3' SD = 15.7' | | SD = 15.9' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 287°37.8' | 178°40.6' | N 22°17.6' | 82°57.3' | 11.4' | S 4°37.6' | 12.8' | 58.5' |
| 1 | 302°40.2' | 193°40.5' | N 22°17.3' | 97°27.7' | 11.4' | S 4°50.4' | 12.8' | 58.4' |
| 2 | 317°42.7' | 208°40.4' | N 22°16.9' | 111°58.1' | 11.4' | S 5°03.2' | 12.8' | 58.4' |
| 3 | 332°45.2' | 223°40.3' | N 22°16.6' | 126°28.5' | 11.4' | S 5°16.0' | 12.7' | 58.4' |
| 4 | 347°47.6' | 238°40.2' | N 22°16.3' | 140°58.9' | 11.4' | S 5°28.7' | 12.7' | 58.4' |
| 5 | 2°50.1' | 253°40.1' | N 22°16.0' | 155°29.4' | 11.4' | S 5°41.4' | 12.7' | 58.3' |
| 6 | 17°52.6' | 268°40.0' | N 22°15.7' | 169°59.8' | 11.4' | S 5°54.1' | 12.6' | 58.3' |
| 7 | 32°55.0' | 283°39.9' | N 22°15.4' | 184°30.2' | 11.4' | S 6°06.7' | 12.6' | 58.3' |
| 8 | 47°57.5' | 298°39.8' | N 22°15.1' | 199°00.6' | 11.4' | S 6°19.3' | 12.5' | 58.3' |
| 9 | 62°59.9' | 313°39.8' | N 22°14.8' | 213°31.0' | 11.4' | S 6°31.8' | 12.5' | 58.2' |
| 10 | 78°02.4' | 328°39.7' | N 22°14.5' | 228°01.4' | 11.4' | S 6°44.3' | 12.4' | 58.2' |
| 11 | 93°04.9' | 343°39.6' | N 22°14.1' | 242°31.8' | 11.4' | S 6°56.7' | 12.4' | 58.2' |
| 12 | 108°07.3' | 358°39.5' | N 22°13.8' | 257°02.2' | 11.4' | S 7°09.1' | 12.4' | 58.2' |
| 13 | 123°09.8' | 13°39.4' | N 22°13.5' | 271°32.6' | 11.4' | S 7°21.5' | 12.3' | 58.1' |
| 14 | 138°12.3' | 28°39.3' | N 22°13.2' | 286°03.0' | 11.4' | S 7°33.8' | 12.3' | 58.1' |
| 15 | 153°14.7' | 43°39.2' | N 22°12.9' | 300°33.4' | 11.4' | S 7°46.1' | 12.2' | 58.1' |
| 16 | 168°17.2' | 58°39.1' | N 22°12.6' | 315°03.8' | 11.4' | S 7°58.3' | 12.2' | 58.1' |
| 17 | 183°19.7' | 73°39.0' | N 22°12.2' | 329°34.2' | 11.4' | S 8°10.4' | 12.1' | 58.0' |
| 18 | 198°22.1' | 88°39.0' | N 22°11.9' | 344°04.6' | 11.4' | S 8°22.5' | 12.0' | 58.0' |
| 19 | 213°24.6' | 103°38.9' | N 22°11.6' | 358°35.0' | 11.4' | S 8°34.6' | 12.0' | 58.0' |
| 20 | 228°27.1' | 118°38.8' | N 22°11.3' | 13°05.3' | 11.3' | S 8°46.6' | 11.9' | 58.0' |
| 21 | 243°29.5' | 133°38.7' | N 22°11.0' | 27°35.7' | 11.3' | S 8°58.5' | 11.9' | 58.0' |
| 22 | 258°32.0' | 148°38.6' | N 22°10.6' | 42°06.0' | 11.3' | S 9°10.4' | 11.8' | 57.9' |
| 23 | 273°34.4' | 163°38.5' | N 22°10.3' | 56°36.3' | 11.3' | S 9°22.2' | 11.8' | 57.9' |

Thu Jul 11, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|-------|-------|
| | GHA | d = 0.3' SD = 15.7' | | SD = 15.7' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 288°36.9' | 178°38.4' | N 22°10.0' | 71°06.7' | 11.3' | S 9°34.0' | 11.7' | 57.9' |
| 1 | 303°39.4' | 193°38.4' | N 22°09.7' | 85°37.0' | 11.3' | S 9°45.7' | 11.7' | 57.9' |
| 2 | 318°41.8' | 208°38.3' | N 22°09.3' | 100°07.2' | 11.3' | S 9°57.4' | 11.6' | 57.8' |
| 3 | 333°44.3' | 223°38.2' | N 22°09.0' | 114°37.5' | 11.3' | S 10°09.0' | 11.5' | 57.8' |
| 4 | 348°46.8' | 238°38.1' | N 22°08.7' | 129°07.8' | 11.3' | S 10°20.5' | 11.5' | 57.8' |
| 5 | 3°49.2' | 253°38.0' | N 22°08.4' | 143°38.0' | 11.2' | S 10°32.0' | 11.4' | 57.8' |
| 6 | 18°51.7' | 268°37.9' | N 22°08.0' | 158°08.3' | 11.2' | S 10°43.4' | 11.3' | 57.7' |
| 7 | 33°54.2' | 283°37.8' | N 22°07.7' | 172°38.5' | 11.2' | S 10°54.7' | 11.3' | 57.7' |
| 8 | 48°56.6' | 298°37.8' | N 22°07.4' | 187°08.7' | 11.2' | S 11°06.0' | 11.2' | 57.7' |
| 9 | 63°59.1' | 313°37.7' | N 22°07.0' | 201°38.9' | 11.2' | S 11°17.2' | 11.1' | 57.7' |
| 10 | 79°01.5' | 328°37.6' | N 22°06.7' | 216°09.1' | 11.2' | S 11°28.3' | 11.1' | 57.6' |
| 11 | 94°04.0' | 343°37.5' | N 22°06.4' | 230°39.2' | 11.1' | S 11°39.4' | 11.0' | 57.6' |
| 12 | 109°06.5' | 358°37.4' | N 22°06.0' | 245°09.4' | 11.1' | S 11°50.4' | 10.9' | 57.6' |
| 13 | 124°08.9' | 13°37.3' | N 22°05.7' | 259°39.5' | 11.1' | S 12°01.4' | 10.9' | 57.6' |
| 14 | 139°11.4' | 28°37.3' | N 22°05.4' | 274°09.6' | 11.1' | S 12°12.2' | 10.8' | 57.5' |
| 15 | 154°13.9' | 43°37.2' | N 22°05.0' | 288°39.7' | 11.1' | S 12°23.0' | 10.7' | 57.5' |
| 16 | 169°16.3' | 58°37.1' | N 22°04.7' | 303°09.7' | 11.0' | S 12°33.8' | 10.7' | 57.5' |
| 17 | 184°18.8' | 73°37.0' | N 22°04.4' | 317°39.8' | 11.0' | S 12°44.4' | 10.6' | 57.5' |
| 18 | 199°21.3' | 88°36.9' | N 22°04.0' | 332°09.8' | 11.0' | S 12°55.0' | 10.5' | 57.5' |
| 19 | 214°23.7' | 103°36.9' | N 22°03.7' | 346°39.8' | 11.0' | S 13°05.5' | 10.4' | 57.4' |
| 20 | 229°26.2' | 118°36.8' | N 22°03.4' | 1°09.8' | 11.0' | S 13°15.9' | 10.4' | 57.4' |
| 21 | 244°28.7' | 133°36.7' | N 22°03.0' | 15°39.7' | 10.9' | S 13°26.3' | 10.3' | 57.4' |
| 22 | 259°31.1' | 148°36.6' | N 22°02.7' | 30°09.6' | 10.9' | S 13°36.6' | 10.2' | 57.4' |
| 23 | 274°33.6' | 163°36.5' | N 22°02.4' | 44°39.5' | 10.9' | S 13°46.8' | 10.1' | 57.3' |

Fri Jul 12, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|-------|-------|
| | GHA | d = 0.3' SD = 15.7' | | SD = 15.6' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 289°36.0' | 178°36.4' | N 22°02.0' | 59°09.4' | 10.9' | S 13°56.9' | 10.0' | 57.3' |
| 1 | 304°38.5' | 193°36.4' | N 22°01.7' | 73°39.3' | 10.8' | S 14°06.9' | 10.0' | 57.3' |
| 2 | 319°41.0' | 208°36.3' | N 22°01.3' | 88°09.1' | 10.8' | S 14°16.9' | 9.9' | 57.3' |
| 3 | 334°43.4' | 223°36.2' | N 22°01.0' | 102°39.0' | 10.8' | S 14°26.7' | 9.8' | 57.2' |
| 4 | 349°45.9' | 238°36.1' | N 22°00.7' | 117°08.7' | 10.8' | S 14°36.5' | 9.7' | 57.2' |
| 5 | 4°48.4' | 253°36.0' | N 22°00.3' | 131°38.5' | 10.7' | S 14°46.3' | 9.6' | 57.2' |
| 6 | 19°50.8' | 268°36.0' | N 21°60.0' | 146°08.3' | 10.7' | S 14°55.9' | 9.5' | 57.2' |
| 7 | 34°53.3' | 283°35.9' | N 21°59.6' | 160°38.0' | 10.7' | S 15°05.4' | 9.5' | 57.1' |
| 8 | 49°55.8' | 298°35.8' | N 21°59.3' | 175°07.7' | 10.7' | S 15°14.9' | 9.4' | 57.1' |
| 9 | 64°58.2' | 313°35.7' | N 21°58.9' | 189°37.3' | 10.6' | S 15°24.2' | 9.3' | 57.1' |
| 10 | 80°00.7' | 328°35.6' | N 21°58.6' | 204°07.0' | 10.6' | S 15°33.5' | 9.2' | 57.1' |
| 11 | 95°03.2' | 343°35.6' | N 21°58.2' | 218°36.6' | 10.6' | S 15°42.7' | 9.1' | 57.1' |
| 12 | 110°05.6' | 358°35.5' | N 21°57.9' | 233°06.2' | 10.6' | S 15°51.8' | 9.0' | 57.0' |
| 13 | 125°08.1' | 13°35.4' | N 21°57.5' | 247°35.8' | 10.5' | S 16°00.9' | 8.9' | 57.0' |
| 14 | 140°10.5' | 28°35.3' | N 21°57.2' | 262°05.3' | 10.5' | S 16°09.8' | 8.8' | 57.0' |
| 15 | 155°13.0' | 43°35.3' | N 21°56.9' | 276°34.8' | 10.5' | S 16°18.6' | 8.7' | 57.0' |
| 16 | 170°15.5' | 58°35.2' | N 21°56.5' | 291°04.3' | 10.5' | S 16°27.4' | 8.7' | 56.9' |
| 17 | 185°17.9' | 73°35.1' | N 21°56.2' | 305°33.8' | 10.4' | S 16°36.0' | 8.6' | 56.9' |
| 18 | 200°20.4' | 88°35.0' | N 21°55.8' | 320°03.2' | 10.4' | S 16°44.6' | 8.5' | 56.9' |
| 19 | 215°22.9' | 103°34.9' | N 21°55.4' | 334°32.6' | 10.4' | S 16°53.0' | 8.4' | 56.9' |
| 20 | 230°25.3' | 118°34.9' | N 21°55.1' | 349°02.0' | 10.4' | S 17°01.4' | 8.3' | 56.9' |
| 21 | 245°27.8' | 133°34.8' | N 21°54.7' | 3°31.4' | 10.3' | S 17°09.7' | 8.2' | 56.8' |
| 22 | 260°30.3' | 148°34.7' | N 21°54.4' | 18°00.7' | 10.3' | S 17°17.9' | 8.1' | 56.8' |
| 23 | 275°32.7' | 163°34.6' | N 21°54.0' | 32°30.0' | 10.3' | S 17°26.0' | 8.0' | 56.8' |

Sat Jul 13, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|------|-------|
| | GHA | d = 0.4' SD = 15.7' | | SD = 15.4' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 290°35.2' | 178°34.6' | N 21°53.7' | 46°59.3' | 10.3' | S 17°33.9' | 7.9' | 56.8' |
| 1 | 305°37.7' | 193°34.5' | N 21°53.3' | 61°28.6' | 10.2' | S 17°41.8' | 7.8' | 56.7' |
| 2 | 320°40.1' | 208°34.4' | N 21°53.0' | 75°57.8' | 10.2' | S 17°49.6' | 7.7' | 56.7' |
| 3 | 335°42.6' | 223°34.3' | N 21°52.6' | 90°27.0' | 10.2' | S 17°57.3' | 7.6' | 56.7' |
| 4 | 350°45.0' | 238°34.3' | N 21°52.3' | 104°56.2' | 10.2' | S 18°04.9' | 7.5' | 56.7' |
| 5 | 5°47.5' | 253°34.2' | N 21°51.9' | 119°25.4' | 10.1' | S 18°12.4' | 7.4' | 56.7' |
| 6 | 20°50.0' | 268°34.1' | N 21°51.5' | 133°54.5' | 10.1' | S 18°19.8' | 7.3' | 56.6' |
| 7 | 35°52.4' | 283°34.0' | N 21°51.2' | 148°23.7' | 10.1' | S 18°27.1' | 7.2' | 56.6' |
| 8 | 50°54.9' | 298°34.0' | N 21°50.8' | 162°52.7' | 10.1' | S 18°34.3' | 7.1' | 56.6' |
| 9 | 65°57.4' | 313°33.9' | N 21°50.5' | 177°21.8' | 10.0' | S 18°41.4' | 7.0' | 56.6' |
| 10 | 80°59.8' | 328°33.8' | N 21°50.1' | 191°50.9' | 10.0' | S 18°48.3' | 6.9' | 56.5' |
| 11 | 96°02.3' | 343°33.7' | N 21°49.7' | 206°19.9' | 10.0' | S 18°55.2' | 6.8' | 56.5' |
| 12 | 111°04.8' | 358°33.7' | N 21°49.4' | 220°48.9' | 10.0' | S 19°02.0' | 6.7' | 56.5' |
| 13 | 126°07.2' | 13°33.6' | N 21°49.0' | 235°17.9' | 10.0' | S 19°08.7' | 6.6' | 56.5' |
| 14 | 141°09.7' | 28°33.5' | N 21°48.6' | 249°46.8' | 9.9' | S 19°15.2' | 6.5' | 56.5' |
| 15 | 156°12.1' | 43°33.5' | N 21°48.3' | 264°15.8' | 9.9' | S 19°21.7' | 6.3' | 56.4' |
| 16 | 171°14.6' | 58°33.4' | N 21°47.9' | 278°44.7' | 9.9' | S 19°28.0' | 6.2' | 56.4' |
| 17 | 186°17.1' | 73°33.3' | N 21°47.5' | 293°13.6' | 9.9' | S 19°34.3' | 6.1' | 56.4' |
| 18 | 201°19.5' | 88°33.2' | N 21°47.2' | 307°42.5' | 9.9' | S 19°40.4' | 6.0' | 56.4' |
| 19 | 216°22.0' | 103°33.2' | N 21°46.8' | 322°11.3' | 9.8' | S 19°46.4' | 5.9' | 56.4' |
| 20 | 231°24.5' | 118°33.1' | N 21°46.4' | 336°40.1' | 9.8' | S 19°52.3' | 5.8' | 56.3' |
| 21 | 246°26.9' | 133°33.0' | N 21°46.1' | 351°09.0' | 9.8' | S 19°58.1' | 5.7' | 56.3' |
| 22 | 261°29.4' | 148°33.0' | N 21°45.7' | 5°37.8' | 9.8' | S 20°03.8' | 5.6' | 56.3' |
| 23 | 276°31.9' | 163°32.9' | N 21°45.3' | 20°06.5' | 9.8' | S 20°09.4' | 5.5' | 56.3' |

Sun Jul 14, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.4' SD = 15.7' | | SD = 15.3' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 291°34.3' | 178°32.8' | N 21°45.0' | 34°35.3' | 9.7' | S 20°14.9' | 5.4' | 56.2' |
| 1 | 306°36.8' | 193°32.7' | N 21°44.6' | 49°04.1' | 9.7' | S 20°20.3' | 5.3' | 56.2' |
| 2 | 321°39.3' | 208°32.7' | N 21°44.2' | 63°32.8' | 9.7' | S 20°25.5' | 5.1' | 56.2' |
| 3 | 336°41.7' | 223°32.6' | N 21°43.8' | 78°01.5' | 9.7' | S 20°30.7' | 5.0' | 56.2' |
| 4 | 351°44.2' | 238°32.5' | N 21°43.5' | 92°30.2' | 9.7' | S 20°35.7' | 4.9' | 56.2' |
| 5 | 6°46.6' | 253°32.5' | N 21°43.1' | 106°58.9' | 9.7' | S 20°40.6' | 4.8' | 56.1' |
| 6 | 21°49.1' | 268°32.4' | N 21°42.7' | 121°27.6' | 9.7' | S 20°45.4' | 4.7' | 56.1' |
| 7 | 36°51.6' | 283°32.3' | N 21°42.4' | 135°56.2' | 9.6' | S 20°50.1' | 4.6' | 56.1' |
| 8 | 51°54.0' | 298°32.3' | N 21°42.0' | 150°24.9' | 9.6' | S 20°54.7' | 4.5' | 56.1' |
| 9 | 66°56.5' | 313°32.2' | N 21°41.6' | 164°53.5' | 9.6' | S 20°59.2' | 4.3' | 56.1' |
| 10 | 81°59.0' | 328°32.1' | N 21°41.2' | 179°22.1' | 9.6' | S 21°03.5' | 4.2' | 56.0' |
| 11 | 97°01.4' | 343°32.0' | N 21°40.8' | 193°50.8' | 9.6' | S 21°07.7' | 4.1' | 56.0' |
| 12 | 112°03.9' | 358°32.0' | N 21°40.5' | 208°19.4' | 9.6' | S 21°11.9' | 4.0' | 56.0' |
| 13 | 127°06.4' | 13°31.9' | N 21°40.1' | 222°48.0' | 9.6' | S 21°15.9' | 3.9' | 56.0' |
| 14 | 142°08.8' | 28°31.8' | N 21°39.7' | 237°16.6' | 9.6' | S 21°19.8' | 3.8' | 56.0' |
| 15 | 157°11.3' | 43°31.8' | N 21°39.3' | 251°45.1' | 9.6' | S 21°23.5' | 3.7' | 55.9' |
| 16 | 172°13.8' | 58°31.7' | N 21°38.9' | 266°13.7' | 9.6' | S 21°27.2' | 3.5' | 55.9' |
| 17 | 187°16.2' | 73°31.6' | N 21°38.6' | 280°42.3' | 9.6' | S 21°30.7' | 3.4' | 55.9' |
| 18 | 202°18.7' | 88°31.6' | N 21°38.2' | 295°10.9' | 9.6' | S 21°34.2' | 3.3' | 55.9' |
| 19 | 217°21.1' | 103°31.5' | N 21°37.8' | 309°39.4' | 9.6' | S 21°37.5' | 3.2' | 55.9' |
| 20 | 232°23.6' | 118°31.4' | N 21°37.4' | 324°08.0' | 9.6' | S 21°40.7' | 3.1' | 55.8' |
| 21 | 247°26.1' | 133°31.4' | N 21°37.0' | 338°36.5' | 9.6' | S 21°43.7' | 3.0' | 55.8' |
| 22 | 262°28.5' | 148°31.3' | N 21°36.6' | 353°05.1' | 9.6' | S 21°46.7' | 2.8' | 55.8' |
| 23 | 277°31.0' | 163°31.2' | N 21°36.3' | 7°33.6' | 9.6' | S 21°49.5' | 2.7' | 55.8' |

Mon Jul 15, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.4' SD = 15.7' | | SD = 15.2' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 292°33.5' | 178°31.2' | N 21°35.9' | 22°02.2' | 9.6' | S 21°52.3' | 2.6' | 55.8' |
| 1 | 307°35.9' | 193°31.1' | N 21°35.5' | 36°30.8' | 9.6' | S 21°54.9' | 2.5' | 55.7' |
| 2 | 322°38.4' | 208°31.0' | N 21°35.1' | 50°59.3' | 9.6' | S 21°57.4' | 2.4' | 55.7' |
| 3 | 337°40.9' | 223°31.0' | N 21°34.7' | 65°27.9' | 9.6' | S 21°59.7' | 2.3' | 55.7' |
| 4 | 352°43.3' | 238°30.9' | N 21°34.3' | 79°56.4' | 9.6' | S 22°02.0' | 2.1' | 55.7' |
| 5 | 7°45.8' | 253°30.9' | N 21°33.9' | 94°25.0' | 9.6' | S 22°04.1' | 2.0' | 55.7' |
| 6 | 22°48.3' | 268°30.8' | N 21°33.5' | 108°53.6' | 9.6' | S 22°06.1' | 1.9' | 55.6' |
| 7 | 37°50.7' | 283°30.7' | N 21°33.2' | 123°22.1' | 9.6' | S 22°08.0' | 1.8' | 55.6' |
| 8 | 52°53.2' | 298°30.7' | N 21°32.8' | 137°50.7' | 9.6' | S 22°09.8' | 1.7' | 55.6' |
| 9 | 67°55.6' | 313°30.6' | N 21°32.4' | 152°19.3' | 9.6' | S 22°11.5' | 1.5' | 55.6' |
| 10 | 82°58.1' | 328°30.5' | N 21°32.0' | 166°47.9' | 9.6' | S 22°13.0' | 1.4' | 55.6' |
| 11 | 98°00.6' | 343°30.5' | N 21°31.6' | 181°16.5' | 9.6' | S 22°14.5' | 1.3' | 55.6' |
| 12 | 113°03.0' | 358°30.4' | N 21°31.2' | 195°45.2' | 9.6' | S 22°15.8' | 1.2' | 55.5' |
| 13 | 128°05.5' | 13°30.3' | N 21°30.8' | 210°13.8' | 9.6' | S 22°17.0' | 1.1' | 55.5' |
| 14 | 143°08.0' | 28°30.3' | N 21°30.4' | 224°42.4' | 9.7' | S 22°18.1' | 1.0' | 55.5' |
| 15 | 158°10.4' | 43°30.2' | N 21°30.0' | 239°11.1' | 9.7' | S 22°19.0' | 0.8' | 55.5' |
| 16 | 173°12.9' | 58°30.2' | N 21°29.6' | 253°39.8' | 9.7' | S 22°19.9' | 0.7' | 55.5' |
| 17 | 188°15.4' | 73°30.1' | N 21°29.2' | 268°08.4' | 9.7' | S 22°20.6' | 0.6' | 55.4' |
| 18 | 203°17.8' | 88°30.0' | N 21°28.8' | 282°37.1' | 9.7' | S 22°21.2' | 0.5' | 55.4' |
| 19 | 218°20.3' | 103°30.0' | N 21°28.4' | 297°05.9' | 9.7' | S 22°21.7' | 0.4' | 55.4' |
| 20 | 233°22.8' | 118°29.9' | N 21°28.0' | 311°34.6' | 9.8' | S 22°22.1' | 0.3' | 55.4' |
| 21 | 248°25.2' | 133°29.8' | N 21°27.6' | 326°03.4' | 9.8' | S 22°22.3' | 0.1' | 55.4' |
| 22 | 263°27.7' | 148°29.8' | N 21°27.2' | 340°32.1' | 9.8' | S 22°22.5' | 0.0' | 55.3' |
| 23 | 278°30.1' | 163°29.7' | N 21°26.8' | 355°00.9' | 9.8' | S 22°22.5' | 0.1' | 55.3' |

Tue Jul 16, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|------|-------|
| | GHA | d = 0.4' SD = 15.7' | | SD = 15.0' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 293°32.6' | 178°29.7' | N 21°26.4' | 9°29.7' | 9.8' | S 22°22.4' | 0.2' | 55.3' |
| 1 | 308°35.1' | 193°29.6' | N 21°26.0' | 23°58.6' | 9.9' | S 22°22.2' | 0.3' | 55.3' |
| 2 | 323°37.5' | 208°29.5' | N 21°25.6' | 38°27.4' | 9.9' | S 22°21.9' | 0.4' | 55.3' |
| 3 | 338°40.0' | 223°29.5' | N 21°25.2' | 52°56.3' | 9.9' | S 22°21.4' | 0.6' | 55.3' |
| 4 | 353°42.5' | 238°29.4' | N 21°24.8' | 67°25.2' | 9.9' | S 22°20.9' | 0.7' | 55.2' |
| 5 | 8°44.9' | 253°29.4' | N 21°24.4' | 81°54.1' | 10.0' | S 22°20.2' | 0.8' | 55.2' |
| 6 | 23°47.4' | 268°29.3' | N 21°24.0' | 96°23.1' | 10.0' | S 22°19.4' | 0.9' | 55.2' |
| 7 | 38°49.9' | 283°29.3' | N 21°23.6' | 110°52.1' | 10.0' | S 22°18.5' | 1.0' | 55.2' |
| 8 | 53°52.3' | 298°29.2' | N 21°23.2' | 125°21.1' | 10.0' | S 22°17.5' | 1.1' | 55.2' |
| 9 | 68°54.8' | 313°29.1' | N 21°22.8' | 139°50.1' | 10.1' | S 22°16.4' | 1.2' | 55.2' |
| 10 | 83°57.2' | 328°29.1' | N 21°22.4' | 154°19.2' | 10.1' | S 22°15.2' | 1.3' | 55.1' |
| 11 | 98°59.7' | 343°29.0' | N 21°22.0' | 168°48.3' | 10.1' | S 22°13.8' | 1.5' | 55.1' |
| 12 | 114°02.2' | 358°29.0' | N 21°21.6' | 183°17.5' | 10.2' | S 22°12.3' | 1.6' | 55.1' |
| 13 | 129°04.6' | 13°28.9' | N 21°21.2' | 197°46.6' | 10.2' | S 22°10.8' | 1.7' | 55.1' |
| 14 | 144°07.1' | 28°28.8' | N 21°20.7' | 212°15.8' | 10.2' | S 22°09.1' | 1.8' | 55.1' |
| 15 | 159°09.6' | 43°28.8' | N 21°20.3' | 226°45.0' | 10.3' | S 22°07.3' | 1.9' | 55.1' |
| 16 | 174°12.0' | 58°28.7' | N 21°19.9' | 241°14.3' | 10.3' | S 22°05.4' | 2.0' | 55.0' |
| 17 | 189°14.5' | 73°28.7' | N 21°19.5' | 255°43.6' | 10.3' | S 22°03.4' | 2.1' | 55.0' |
| 18 | 204°17.0' | 88°28.6' | N 21°19.1' | 270°12.9' | 10.4' | S 22°01.2' | 2.2' | 55.0' |
| 19 | 219°19.4' | 103°28.6' | N 21°18.7' | 284°42.3' | 10.4' | S 21°59.0' | 2.3' | 55.0' |
| 20 | 234°21.9' | 118°28.5' | N 21°18.3' | 299°11.7' | 10.4' | S 21°56.6' | 2.5' | 55.0' |
| 21 | 249°24.4' | 133°28.5' | N 21°17.9' | 313°41.2' | 10.5' | S 21°54.2' | 2.6' | 55.0' |
| 22 | 264°26.8' | 148°28.4' | N 21°17.4' | 328°10.7' | 10.5' | S 21°51.6' | 2.7' | 54.9' |
| 23 | 279°29.3' | 163°28.3' | N 21°17.0' | 342°40.2' | 10.6' | S 21°48.9' | 2.8' | 54.9' |

Wed Jul 17, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|------|-------|
| | GHA | d = 0.4' SD = 15.7' | | SD = 14.9' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 294°31.7' | 178°28.3' | N 21°16.6' | 357°09.8' | 10.6' | S 21°46.2' | 2.9' | 54.9' |
| 1 | 309°34.2' | 193°28.2' | N 21°16.2' | 11°39.4' | 10.6' | S 21°43.3' | 3.0' | 54.9' |
| 2 | 324°36.7' | 208°28.2' | N 21°15.8' | 26°09.0' | 10.7' | S 21°40.3' | 3.1' | 54.9' |
| 3 | 339°39.1' | 223°28.1' | N 21°15.4' | 40°38.7' | 10.7' | S 21°37.2' | 3.2' | 54.9' |
| 4 | 354°41.6' | 238°28.1' | N 21°14.9' | 55°08.4' | 10.8' | S 21°34.0' | 3.3' | 54.9' |
| 5 | 9°44.1' | 253°28.0' | N 21°14.5' | 69°38.2' | 10.8' | S 21°30.7' | 3.4' | 54.8' |
| 6 | 24°46.5' | 268°28.0' | N 21°14.1' | 84°08.0' | 10.9' | S 21°27.3' | 3.5' | 54.8' |
| 7 | 39°49.0' | 283°27.9' | N 21°13.7' | 98°37.9' | 10.9' | S 21°23.8' | 3.6' | 54.8' |
| 8 | 54°51.5' | 298°27.9' | N 21°13.3' | 113°07.8' | 11.0' | S 21°20.1' | 3.7' | 54.8' |
| 9 | 69°53.9' | 313°27.8' | N 21°12.8' | 127°37.7' | 11.0' | S 21°16.4' | 3.8' | 54.8' |
| 10 | 84°56.4' | 328°27.7' | N 21°12.4' | 142°07.7' | 11.0' | S 21°12.6' | 3.9' | 54.8' |
| 11 | 99°58.9' | 343°27.7' | N 21°12.0' | 156°37.8' | 11.1' | S 21°08.7' | 4.0' | 54.7' |
| 12 | 115°01.3' | 358°27.6' | N 21°11.6' | 171°07.9' | 11.1' | S 21°04.6' | 4.1' | 54.7' |
| 13 | 130°03.8' | 13°27.6' | N 21°11.1' | 185°38.0' | 11.2' | S 21°00.5' | 4.2' | 54.7' |
| 14 | 145°06.2' | 28°27.5' | N 21°10.7' | 200°08.2' | 11.2' | S 20°56.3' | 4.3' | 54.7' |
| 15 | 160°08.7' | 43°27.5' | N 21°10.3' | 214°38.4' | 11.3' | S 20°52.0' | 4.4' | 54.7' |
| 16 | 175°11.2' | 58°27.4' | N 21°09.9' | 229°08.7' | 11.3' | S 20°47.6' | 4.5' | 54.7' |
| 17 | 190°13.6' | 73°27.4' | N 21°09.4' | 243°39.0' | 11.4' | S 20°43.0' | 4.6' | 54.7' |
| 18 | 205°16.1' | 88°27.3' | N 21°09.0' | 258°09.4' | 11.4' | S 20°38.4' | 4.7' | 54.7' |
| 19 | 220°18.6' | 103°27.3' | N 21°08.6' | 272°39.8' | 11.5' | S 20°33.7' | 4.8' | 54.6' |
| 20 | 235°21.0' | 118°27.2' | N 21°08.2' | 287°10.3' | 11.5' | S 20°28.9' | 4.9' | 54.6' |
| 21 | 250°23.5' | 133°27.2' | N 21°07.7' | 301°40.8' | 11.6' | S 20°24.0' | 5.0' | 54.6' |
| 22 | 265°26.0' | 148°27.1' | N 21°07.3' | 316°11.4' | 11.6' | S 20°19.0' | 5.1' | 54.6' |
| 23 | 280°28.4' | 163°27.1' | N 21°06.9' | 330°42.1' | 11.7' | S 20°13.9' | 5.2' | 54.6' |

Thu Jul 18, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|------|-------|
| | GHA | d = 0.4' SD = 15.7' | | SD = 14.9' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 295°30.9' | 178°27.0' | N 21°06.4' | 345°12.7' | 11.7' | S 20°08.7' | 5.3' | 54.6' |
| 1 | 310°33.4' | 193°27.0' | N 21°06.0' | 359°43.5' | 11.8' | S 20°03.5' | 5.4' | 54.6' |
| 2 | 325°35.8' | 208°26.9' | N 21°05.6' | 14°14.3' | 11.8' | S 19°58.1' | 5.5' | 54.5' |
| 3 | 340°38.3' | 223°26.9' | N 21°05.1' | 28°45.1' | 11.9' | S 19°52.6' | 5.5' | 54.5' |
| 4 | 355°40.7' | 238°26.8' | N 21°04.7' | 43°16.0' | 11.9' | S 19°47.1' | 5.6' | 54.5' |
| 5 | 10°43.2' | 253°26.8' | N 21°04.3' | 57°46.9' | 12.0' | S 19°41.4' | 5.7' | 54.5' |
| 6 | 25°45.7' | 268°26.7' | N 21°03.8' | 72°17.9' | 12.0' | S 19°35.7' | 5.8' | 54.5' |
| 7 | 40°48.1' | 283°26.7' | N 21°03.4' | 86°49.0' | 12.1' | S 19°29.9' | 5.9' | 54.5' |
| 8 | 55°50.6' | 298°26.6' | N 21°03.0' | 101°20.1' | 12.2' | S 19°24.0' | 6.0' | 54.5' |
| 9 | 70°53.1' | 313°26.6' | N 21°02.5' | 115°51.2' | 12.2' | S 19°18.0' | 6.1' | 54.5' |
| 10 | 85°55.5' | 328°26.6' | N 21°02.1' | 130°22.4' | 12.3' | S 19°11.9' | 6.2' | 54.5' |
| 11 | 100°58.0' | 343°26.5' | N 21°01.6' | 144°53.7' | 12.3' | S 19°05.8' | 6.2' | 54.4' |
| 12 | 116°00.5' | 358°26.5' | N 21°01.2' | 159°25.0' | 12.4' | S 18°59.5' | 6.3' | 54.4' |
| 13 | 131°02.9' | 13°26.4' | N 21°00.8' | 173°56.4' | 12.4' | S 18°53.2' | 6.4' | 54.4' |
| 14 | 146°05.4' | 28°26.4' | N 21°00.3' | 188°27.8' | 12.5' | S 18°46.8' | 6.5' | 54.4' |
| 15 | 161°07.8' | 43°26.3' | N 20°59.9' | 202°59.3' | 12.5' | S 18°40.3' | 6.6' | 54.4' |
| 16 | 176°10.3' | 58°26.3' | N 20°59.4' | 217°30.8' | 12.6' | S 18°33.7' | 6.7' | 54.4' |
| 17 | 191°12.8' | 73°26.2' | N 20°59.0' | 232°02.4' | 12.6' | S 18°27.1' | 6.7' | 54.4' |
| 18 | 206°15.2' | 88°26.2' | N 20°58.6' | 246°34.0' | 12.7' | S 18°20.3' | 6.8' | 54.4' |
| 19 | 221°17.7' | 103°26.1' | N 20°58.1' | 261°05.7' | 12.7' | S 18°13.5' | 6.9' | 54.4' |
| 20 | 236°20.2' | 118°26.1' | N 20°57.7' | 275°37.5' | 12.8' | S 18°06.6' | 7.0' | 54.3' |
| 21 | 251°22.6' | 133°26.1' | N 20°57.2' | 290°09.3' | 12.9' | S 17°59.7' | 7.0' | 54.3' |
| 22 | 266°25.1' | 148°26.0' | N 20°56.8' | 304°41.1' | 12.9' | S 17°52.6' | 7.1' | 54.3' |
| 23 | 281°27.6' | 163°26.0' | N 20°56.3' | 319°13.0' | 13.0' | S 17°45.5' | 7.2' | 54.3' |

Fri Jul 19, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|------|-------|
| | GHA | d = 0.5' SD = 15.7' | | SD = 14.8' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 296°30.0' | 178°25.9' | N 20°55.9' | 333°45.0' | 13.0' | S 17°38.3' | 7.3' | 54.3' |
| 1 | 311°32.5' | 193°25.9' | N 20°55.5' | 348°17.0' | 13.1' | S 17°31.0' | 7.4' | 54.3' |
| 2 | 326°35.0' | 208°25.8' | N 20°55.0' | 2°49.1' | 13.1' | S 17°23.7' | 7.4' | 54.3' |
| 3 | 341°37.4' | 223°25.8' | N 20°54.6' | 17°21.2' | 13.2' | S 17°16.2' | 7.5' | 54.3' |
| 4 | 356°39.9' | 238°25.7' | N 20°54.1' | 31°53.3' | 13.2' | S 17°08.7' | 7.6' | 54.3' |
| 5 | 11°42.3' | 253°25.7' | N 20°53.7' | 46°25.6' | 13.3' | S 17°01.2' | 7.6' | 54.3' |
| 6 | 26°44.8' | 268°25.7' | N 20°53.2' | 60°57.8' | 13.3' | S 16°53.5' | 7.7' | 54.3' |
| 7 | 41°47.3' | 283°25.6' | N 20°52.8' | 75°30.2' | 13.4' | S 16°45.8' | 7.8' | 54.2' |
| 8 | 56°49.7' | 298°25.6' | N 20°52.3' | 90°02.6' | 13.4' | S 16°38.0' | 7.9' | 54.2' |
| 9 | 71°52.2' | 313°25.5' | N 20°51.9' | 104°35.0' | 13.5' | S 16°30.2' | 7.9' | 54.2' |
| 10 | 86°54.7' | 328°25.5' | N 20°51.4' | 119°07.5' | 13.5' | S 16°22.2' | 8.0' | 54.2' |
| 11 | 101°57.1' | 343°25.5' | N 20°51.0' | 133°40.0' | 13.6' | S 16°14.3' | 8.1' | 54.2' |
| 12 | 116°59.6' | 358°25.4' | N 20°50.5' | 148°12.6' | 13.6' | S 16°06.2' | 8.1' | 54.2' |
| 13 | 132°02.1' | 13°25.4' | N 20°50.0' | 162°45.2' | 13.7' | S 15°58.1' | 8.2' | 54.2' |
| 14 | 147°04.5' | 28°25.3' | N 20°49.6' | 177°17.9' | 13.7' | S 15°49.9' | 8.3' | 54.2' |
| 15 | 162°07.0' | 43°25.3' | N 20°49.1' | 191°50.7' | 13.8' | S 15°41.6' | 8.3' | 54.2' |
| 16 | 177°09.5' | 58°25.2' | N 20°48.7' | 206°23.4' | 13.8' | S 15°33.3' | 8.4' | 54.2' |
| 17 | 192°11.9' | 73°25.2' | N 20°48.2' | 220°56.3' | 13.9' | S 15°24.9' | 8.4' | 54.2' |
| 18 | 207°14.4' | 88°25.2' | N 20°47.8' | 235°29.2' | 13.9' | S 15°16.5' | 8.5' | 54.2' |
| 19 | 222°16.8' | 103°25.1' | N 20°47.3' | 250°02.1' | 14.0' | S 15°08.0' | 8.6' | 54.2' |
| 20 | 237°19.3' | 118°25.1' | N 20°46.8' | 264°35.1' | 14.0' | S 14°59.4' | 8.6' | 54.2' |
| 21 | 252°21.8' | 133°25.1' | N 20°46.4' | 279°08.1' | 14.1' | S 14°50.8' | 8.7' | 54.1' |
| 22 | 267°24.2' | 148°25.0' | N 20°45.9' | 293°41.2' | 14.1' | S 14°42.1' | 8.7' | 54.1' |
| 23 | 282°26.7' | 163°25.0' | N 20°45.5' | 308°14.3' | 14.2' | S 14°33.4' | 8.8' | 54.1' |

Sat Jul 20, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|-------|-------|
| | GHA | d = 0.5' SD = 15.7' | | SD = 14.8' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 297°29.2' | 178°24.9' | N 20°45.0' | 322°47.5' | 14.2' | S 14°24.6' | 8.9' | 54.1' |
| 1 | 312°31.6' | 193°24.9' | N 20°44.5' | 337°20.7' | 14.3' | S 14°15.7' | 8.9' | 54.1' |
| 2 | 327°34.1' | 208°24.9' | N 20°44.1' | 351°54.0' | 14.3' | S 14°06.8' | 9.0' | 54.1' |
| 3 | 342°36.6' | 223°24.8' | N 20°43.6' | 6°27.3' | 14.4' | S 13°57.8' | 9.0' | 54.1' |
| 4 | 357°39.0' | 238°24.8' | N 20°43.2' | 21°00.7' | 14.4' | S 13°48.8' | 9.1' | 54.1' |
| 5 | 12°41.5' | 253°24.7' | N 20°42.7' | 35°34.1' | 14.4' | S 13°39.7' | 9.1' | 54.1' |
| 6 | 27°43.9' | 268°24.7' | N 20°42.2' | 50°07.5' | 14.5' | S 13°30.6' | 9.2' | 54.1' |
| 7 | 42°46.4' | 283°24.7' | N 20°41.8' | 64°41.0' | 14.5' | S 13°21.4' | 9.2' | 54.1' |
| 8 | 57°48.9' | 298°24.6' | N 20°41.3' | 79°14.5' | 14.6' | S 13°12.1' | 9.3' | 54.1' |
| 9 | 72°51.3' | 313°24.6' | N 20°40.8' | 93°48.1' | 14.6' | S 13°02.8' | 9.4' | 54.1' |
| 10 | 87°53.8' | 328°24.6' | N 20°40.4' | 108°21.7' | 14.7' | S 12°53.5' | 9.4' | 54.1' |
| 11 | 102°56.3' | 343°24.5' | N 20°39.9' | 122°55.4' | 14.7' | S 12°44.1' | 9.5' | 54.1' |
| 12 | 117°58.7' | 358°24.5' | N 20°39.4' | 137°29.1' | 14.7' | S 12°34.6' | 9.5' | 54.1' |
| 13 | 133°01.2' | 13°24.5' | N 20°39.0' | 152°02.8' | 14.8' | S 12°25.1' | 9.5' | 54.1' |
| 14 | 148°03.7' | 28°24.4' | N 20°38.5' | 166°36.6' | 14.8' | S 12°15.6' | 9.6' | 54.1' |
| 15 | 163°06.1' | 43°24.4' | N 20°38.0' | 181°10.4' | 14.9' | S 12°06.0' | 9.6' | 54.1' |
| 16 | 178°08.6' | 58°24.4' | N 20°37.6' | 195°44.3' | 14.9' | S 11°56.3' | 9.7' | 54.1' |
| 17 | 193°11.1' | 73°24.3' | N 20°37.1' | 210°18.2' | 14.9' | S 11°46.6' | 9.7' | 54.1' |
| 18 | 208°13.5' | 88°24.3' | N 20°36.6' | 224°52.1' | 15.0' | S 11°36.9' | 9.8' | 54.1' |
| 19 | 223°16.0' | 103°24.3' | N 20°36.1' | 239°26.1' | 15.0' | S 11°27.1' | 9.8' | 54.1' |
| 20 | 238°18.4' | 118°24.2' | N 20°35.7' | 254°00.1' | 15.0' | S 11°17.3' | 9.9' | 54.1' |
| 21 | 253°20.9' | 133°24.2' | N 20°35.2' | 268°34.2' | 15.1' | S 11°07.4' | 9.9' | 54.1' |
| 22 | 268°23.4' | 148°24.2' | N 20°34.7' | 283°08.3' | 15.1' | S 10°57.5' | 10.0' | 54.1' |
| 23 | 283°25.8' | 163°24.1' | N 20°34.3' | 297°42.4' | 15.2' | S 10°47.5' | 10.0' | 54.1' |

Sun Jul 21, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|-------|-------|
| | GHA | d = 0.5' SD = 15.7' | | SD = 14.8' | | | | |
| | | GHA | dec | GHA | v | dec | d | HP |
| 0 | 298°28.3' | 178°24.1' | N 20°33.8' | 312°16.5' | 15.2' | S 10°37.5' | 10.0' | 54.1' |
| 1 | 313°30.8' | 193°24.1' | N 20°33.3' | 326°50.7' | 15.2' | S 10°27.5' | 10.1' | 54.1' |
| 2 | 328°33.2' | 208°24.0' | N 20°32.8' | 341°24.9' | 15.2' | S 10°17.4' | 10.1' | 54.1' |
| 3 | 343°35.7' | 223°24.0' | N 20°32.3' | 355°59.2' | 15.3' | S 10°07.3' | 10.2' | 54.1' |
| 4 | 358°38.2' | 238°24.0' | N 20°31.9' | 10°33.4' | 15.3' | S 9°57.1' | 10.2' | 54.1' |
| 5 | 13°40.6' | 253°23.9' | N 20°31.4' | 25°07.8' | 15.3' | S 9°46.9' | 10.2' | 54.1' |
| 6 | 28°43.1' | 268°23.9' | N 20°30.9' | 39°42.1' | 15.4' | S 9°36.7' | 10.3' | 54.1' |
| 7 | 43°45.6' | 283°23.9' | N 20°30.4' | 54°16.5' | 15.4' | S 9°26.4' | 10.3' | 54.1' |
| 8 | 58°48.0' | 298°23.8' | N 20°30.0' | 68°50.9' | 15.4' | S 9°16.1' | 10.3' | 54.1' |
| 9 | 73°50.5' | 313°23.8' | N 20°29.5' | 83°25.3' | 15.5' | S 9°05.8' | 10.4' | 54.1' |
| 10 | 88°52.9' | 328°23.8' | N 20°29.0' | 97°59.7' | 15.5' | S 8°55.4' | 10.4' | 54.1' |
| 11 | 103°55.4' | 343°23.7' | N 20°28.5' | 112°34.2' | 15.5' | S 8°45.0' | 10.5' | 54.1' |
| 12 | 118°57.9' | 358°23.7' | N 20°28.0' | 127°08.7' | 15.5' | S 8°34.5' | 10.5' | 54.1' |
| 13 | 134°00.3' | 13°23.7' | N 20°27.5' | 141°43.3' | 15.6' | S 8°24.0' | 10.5' | 54.1' |
| 14 | 149°02.8' | 28°23.7' | N 20°27.1' | 156°17.8' | 15.6' | S 8°13.5' | 10.6' | 54.1' |
| 15 | 164°05.3' | 43°23.6' | N 20°26.6' | 170°52.4' | 15.6' | S 8°02.9' | 10.6' | 54.1' |
| 16 | 179°07.7' | 58°23.6' | N 20°26.1' | 185°27.0' | 15.6' | S 7°52.4' | 10.6' | 54.1' |
| 17 | 194°10.2' | 73°23.6' | N 20°25.6' | 200°01.6' | 15.6' | S 7°41.7' | 10.6' | 54.1' |
| 18 | 209°12.7' | 88°23.5' | N 20°25.1' | 214°36.3' | 15.7' | S 7°31.1' | 10.7' | 54.1' |
| 19 | 224°15.1' | 103°23.5' | N 20°24.6' | 229°10.9' | 15.7' | S 7°20.4' | 10.7' | 54.1' |
| 20 | 239°17.6' | 118°23.5' | N 20°24.1' | 243°45.6' | 15.7' | S 7°09.7' | 10.7' | 54.1' |
| 21 | 254°20.0' | 133°23.5' | N 20°23.7' | 258°20.3' | 15.7' | S 6°59.0' | 10.8' | 54.1' |
| 22 | 269°22.5' | 148°23.4' | N 20°23.2' | 272°55.1' | 15.7' | S 6°48.2' | 10.8' | 54.1' |
| 23 | 284°25.0' | 163°23.4' | N 20°22.7' | 287°29.8' | 15.8' | S 6°37.4' | 10.8' | 54.1' |

Mon Jul 22, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|-----------|-------|-------|
| | GHA | d = 0.5' SD = 15.7' | | SD = 14.8' | | | | |
| | | GHA | dec | GHA | v | dec | d | HP |
| 0 | 299°27.4' | 178°23.4' | N 20°22.2' | 302°04.5' | 15.8' | S 6°26.6' | 10.8' | 54.2' |
| 1 | 314°29.9' | 193°23.4' | N 20°21.7' | 316°39.3' | 15.8' | S 6°15.8' | 10.9' | 54.2' |
| 2 | 329°32.4' | 208°23.3' | N 20°21.2' | 331°14.1' | 15.8' | S 6°04.9' | 10.9' | 54.2' |
| 3 | 344°34.8' | 223°23.3' | N 20°20.7' | 345°48.9' | 15.8' | S 5°54.0' | 10.9' | 54.2' |
| 4 | 359°37.3' | 238°23.3' | N 20°20.2' | 0°23.7' | 15.8' | S 5°43.1' | 10.9' | 54.2' |
| 5 | 14°39.8' | 253°23.2' | N 20°19.7' | 14°58.6' | 15.8' | S 5°32.1' | 11.0' | 54.2' |
| 6 | 29°42.2' | 268°23.2' | N 20°19.2' | 29°33.4' | 15.9' | S 5°21.2' | 11.0' | 54.2' |
| 7 | 44°44.7' | 283°23.2' | N 20°18.8' | 44°08.3' | 15.9' | S 5°10.2' | 11.0' | 54.2' |
| 8 | 59°47.2' | 298°23.2' | N 20°18.3' | 58°43.1' | 15.9' | S 4°59.1' | 11.0' | 54.2' |
| 9 | 74°49.6' | 313°23.1' | N 20°17.8' | 73°18.0' | 15.9' | S 4°48.1' | 11.1' | 54.2' |
| 10 | 89°52.1' | 328°23.1' | N 20°17.3' | 87°52.9' | 15.9' | S 4°37.1' | 11.1' | 54.2' |
| 11 | 104°54.5' | 343°23.1' | N 20°16.8' | 102°27.8' | 15.9' | S 4°26.0' | 11.1' | 54.2' |
| 12 | 119°57.0' | 358°23.1' | N 20°16.3' | 117°02.6' | 15.9' | S 4°14.9' | 11.1' | 54.2' |
| 13 | 134°59.5' | 13°23.1' | N 20°15.8' | 131°37.5' | 15.9' | S 4°03.8' | 11.1' | 54.3' |
| 14 | 150°01.9' | 28°23.0' | N 20°15.3' | 146°12.4' | 15.9' | S 3°52.6' | 11.2' | 54.3' |
| 15 | 165°04.4' | 43°23.0' | N 20°14.8' | 160°47.4' | 15.9' | S 3°41.5' | 11.2' | 54.3' |
| 16 | 180°06.9' | 58°23.0' | N 20°14.3' | 175°22.3' | 15.9' | S 3°30.3' | 11.2' | 54.3' |
| 17 | 195°09.3' | 73°23.0' | N 20°13.8' | 189°57.2' | 15.9' | S 3°19.1' | 11.2' | 54.3' |
| 18 | 210°11.8' | 88°22.9' | N 20°13.3' | 204°32.1' | 15.9' | S 3°07.9' | 11.2' | 54.3' |
| 19 | 225°14.3' | 103°22.9' | N 20°12.8' | 219°07.0' | 15.9' | S 2°56.7' | 11.2' | 54.3' |
| 20 | 240°16.7' | 118°22.9' | N 20°12.3' | 233°41.9' | 15.9' | S 2°45.5' | 11.2' | 54.3' |
| 21 | 255°19.2' | 133°22.9' | N 20°11.8' | 248°16.9' | 15.9' | S 2°34.2' | 11.3' | 54.3' |
| 22 | 270°21.7' | 148°22.8' | N 20°11.3' | 262°51.8' | 15.9' | S 2°23.0' | 11.3' | 54.4' |
| 23 | 285°24.1' | 163°22.8' | N 20°10.8' | 277°26.7' | 15.9' | S 2°11.7' | 11.3' | 54.4' |

Tue Jul 23, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|-----------|-------|-------|
| | GHA | d = 0.5' SD = 15.7' | | SD = 14.9' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 300°26.6' | 178°22.8' | N 20°10.3' | 292°01.6' | 15.9' | S 2°00.4' | 11.3' | 54.4' |
| 1 | 315°29.0' | 193°22.8' | N 20°09.8' | 306°36.5' | 15.9' | S 1°49.1' | 11.3' | 54.4' |
| 2 | 330°31.5' | 208°22.8' | N 20°09.3' | 321°11.4' | 15.9' | S 1°37.8' | 11.3' | 54.4' |
| 3 | 345°34.0' | 223°22.7' | N 20°08.8' | 335°46.3' | 15.9' | S 1°26.5' | 11.3' | 54.4' |
| 4 | 0°36.4' | 238°22.7' | N 20°08.3' | 350°21.2' | 15.9' | S 1°15.1' | 11.3' | 54.4' |
| 5 | 15°38.9' | 253°22.7' | N 20°07.7' | 4°56.1' | 15.9' | S 1°03.8' | 11.4' | 54.4' |
| 6 | 30°41.4' | 268°22.7' | N 20°07.2' | 19°30.9' | 15.9' | S 0°52.4' | 11.4' | 54.5' |
| 7 | 45°43.8' | 283°22.7' | N 20°06.7' | 34°05.8' | 15.8' | S 0°41.1' | 11.4' | 54.5' |
| 8 | 60°46.3' | 298°22.6' | N 20°06.2' | 48°40.6' | 15.8' | S 0°29.7' | 11.4' | 54.5' |
| 9 | 75°48.8' | 313°22.6' | N 20°05.7' | 63°15.5' | 15.8' | S 0°18.3' | 11.4' | 54.5' |
| 10 | 90°51.2' | 328°22.6' | N 20°05.2' | 77°50.3' | 15.8' | S 0°06.9' | 11.4' | 54.5' |
| 11 | 105°53.7' | 343°22.6' | N 20°04.7' | 92°25.1' | 15.8' | N 0°04.5' | 11.4' | 54.5' |
| 12 | 120°56.1' | 358°22.6' | N 20°04.2' | 106°59.9' | 15.8' | N 0°15.9' | 11.4' | 54.5' |
| 13 | 135°58.6' | 13°22.6' | N 20°03.7' | 121°34.7' | 15.8' | N 0°27.3' | 11.4' | 54.6' |
| 14 | 151°01.1' | 28°22.5' | N 20°03.2' | 136°09.4' | 15.7' | N 0°38.7' | 11.4' | 54.6' |
| 15 | 166°03.5' | 43°22.5' | N 20°02.6' | 150°44.2' | 15.7' | N 0°50.1' | 11.4' | 54.6' |
| 16 | 181°06.0' | 58°22.5' | N 20°02.1' | 165°18.9' | 15.7' | N 1°01.5' | 11.4' | 54.6' |
| 17 | 196°08.5' | 73°22.5' | N 20°01.6' | 179°53.6' | 15.7' | N 1°12.9' | 11.4' | 54.6' |
| 18 | 211°10.9' | 88°22.5' | N 20°01.1' | 194°28.3' | 15.7' | N 1°24.3' | 11.4' | 54.6' |
| 19 | 226°13.4' | 103°22.5' | N 20°00.6' | 209°03.0' | 15.6' | N 1°35.7' | 11.4' | 54.7' |
| 20 | 241°15.9' | 118°22.4' | N 20°00.1' | 223°37.6' | 15.6' | N 1°47.2' | 11.4' | 54.7' |
| 21 | 256°18.3' | 133°22.4' | N 19°59.6' | 238°12.3' | 15.6' | N 1°58.6' | 11.4' | 54.7' |
| 22 | 271°20.8' | 148°22.4' | N 19°59.0' | 252°46.9' | 15.6' | N 2°10.0' | 11.4' | 54.7' |
| 23 | 286°23.3' | 163°22.4' | N 19°58.5' | 267°21.4' | 15.5' | N 2°21.4' | 11.4' | 54.7' |

Wed Jul 24, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|-----------|-------|-------|
| | GHA | d = 0.5' SD = 15.7' | | SD = 15.0' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 301°25.7' | 178°22.4' | N 19°58.0' | 281°56.0' | 15.5' | N 2°32.8' | 11.4' | 54.8' |
| 1 | 316°28.2' | 193°22.4' | N 19°57.5' | 296°30.5' | 15.5' | N 2°44.2' | 11.4' | 54.8' |
| 2 | 331°30.6' | 208°22.3' | N 19°57.0' | 311°05.0' | 15.5' | N 2°55.7' | 11.4' | 54.8' |
| 3 | 346°33.1' | 223°22.3' | N 19°56.5' | 325°39.5' | 15.4' | N 3°07.1' | 11.4' | 54.8' |
| 4 | 1°35.6' | 238°22.3' | N 19°55.9' | 340°13.9' | 15.4' | N 3°18.5' | 11.4' | 54.8' |
| 5 | 16°38.0' | 253°22.3' | N 19°55.4' | 354°48.3' | 15.4' | N 3°29.9' | 11.4' | 54.9' |
| 6 | 31°40.5' | 268°22.3' | N 19°54.9' | 9°22.7' | 15.3' | N 3°41.2' | 11.4' | 54.9' |
| 7 | 46°43.0' | 283°22.3' | N 19°54.4' | 23°57.0' | 15.3' | N 3°52.6' | 11.4' | 54.9' |
| 8 | 61°45.4' | 298°22.3' | N 19°53.9' | 38°31.3' | 15.3' | N 4°04.0' | 11.4' | 54.9' |
| 9 | 76°47.9' | 313°22.2' | N 19°53.3' | 53°05.6' | 15.2' | N 4°15.4' | 11.4' | 54.9' |
| 10 | 91°50.4' | 328°22.2' | N 19°52.8' | 67°39.8' | 15.2' | N 4°26.7' | 11.4' | 55.0' |
| 11 | 106°52.8' | 343°22.2' | N 19°52.3' | 82°14.0' | 15.2' | N 4°38.1' | 11.3' | 55.0' |
| 12 | 121°55.3' | 358°22.2' | N 19°51.8' | 96°48.2' | 15.1' | N 4°49.4' | 11.3' | 55.0' |
| 13 | 136°57.7' | 13°22.2' | N 19°51.2' | 111°22.3' | 15.1' | N 5°00.8' | 11.3' | 55.0' |
| 14 | 152°00.2' | 28°22.2' | N 19°50.7' | 125°56.4' | 15.0' | N 5°12.1' | 11.3' | 55.1' |
| 15 | 167°02.7' | 43°22.2' | N 19°50.2' | 140°30.5' | 15.0' | N 5°23.4' | 11.3' | 55.1' |
| 16 | 182°05.1' | 58°22.2' | N 19°49.7' | 155°04.5' | 15.0' | N 5°34.7' | 11.3' | 55.1' |
| 17 | 197°07.6' | 73°22.2' | N 19°49.1' | 169°38.4' | 14.9' | N 5°46.0' | 11.3' | 55.1' |
| 18 | 212°10.1' | 88°22.1' | N 19°48.6' | 184°12.4' | 14.9' | N 5°57.2' | 11.3' | 55.2' |
| 19 | 227°12.5' | 103°22.1' | N 19°48.1' | 198°46.2' | 14.8' | N 6°08.5' | 11.2' | 55.2' |
| 20 | 242°15.0' | 118°22.1' | N 19°47.5' | 213°20.1' | 14.8' | N 6°19.7' | 11.2' | 55.2' |
| 21 | 257°17.5' | 133°22.1' | N 19°47.0' | 227°53.8' | 14.7' | N 6°31.0' | 11.2' | 55.2' |
| 22 | 272°19.9' | 148°22.1' | N 19°46.5' | 242°27.6' | 14.7' | N 6°42.2' | 11.2' | 55.3' |
| 23 | 287°22.4' | 163°22.1' | N 19°45.9' | 257°01.3' | 14.6' | N 6°53.3' | 11.2' | 55.3' |

Thu Jul 25, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|-------|-------|
| | GHA | d = 0.5' SD = 15.7' | | SD = 15.2' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 302°24.9' | 178°22.1' | N 19°45.4' | 271°34.9' | 14.6' | N 7°04.5' | 11.1' | 55.3' |
| 1 | 317°27.3' | 193°22.1' | N 19°44.9' | 286°08.5' | 14.5' | N 7°15.7' | 11.1' | 55.3' |
| 2 | 332°29.8' | 208°22.1' | N 19°44.4' | 300°42.0' | 14.5' | N 7°26.8' | 11.1' | 55.4' |
| 3 | 347°32.2' | 223°22.1' | N 19°43.8' | 315°15.5' | 14.4' | N 7°37.9' | 11.1' | 55.4' |
| 4 | 2°34.7' | 238°22.1' | N 19°43.3' | 329°49.0' | 14.4' | N 7°49.0' | 11.1' | 55.4' |
| 5 | 17°37.2' | 253°22.0' | N 19°42.8' | 344°22.3' | 14.3' | N 8°00.1' | 11.0' | 55.4' |
| 6 | 32°39.6' | 268°22.0' | N 19°42.2' | 358°55.7' | 14.3' | N 8°11.1' | 11.0' | 55.5' |
| 7 | 47°42.1' | 283°22.0' | N 19°41.7' | 13°28.9' | 14.2' | N 8°22.1' | 11.0' | 55.5' |
| 8 | 62°44.6' | 298°22.0' | N 19°41.1' | 28°02.2' | 14.2' | N 8°33.1' | 11.0' | 55.5' |
| 9 | 77°47.0' | 313°22.0' | N 19°40.6' | 42°35.3' | 14.1' | N 8°44.1' | 10.9' | 55.5' |
| 10 | 92°49.5' | 328°22.0' | N 19°40.1' | 57°08.4' | 14.0' | N 8°55.0' | 10.9' | 55.6' |
| 11 | 107°52.0' | 343°22.0' | N 19°39.5' | 71°41.4' | 14.0' | N 9°05.9' | 10.9' | 55.6' |
| 12 | 122°54.4' | 358°22.0' | N 19°39.0' | 86°14.4' | 13.9' | N 9°16.8' | 10.9' | 55.6' |
| 13 | 137°56.9' | 13°22.0' | N 19°38.5' | 100°47.3' | 13.9' | N 9°27.7' | 10.8' | 55.7' |
| 14 | 152°59.4' | 28°22.0' | N 19°37.9' | 115°20.2' | 13.8' | N 9°38.5' | 10.8' | 55.7' |
| 15 | 168°01.8' | 43°22.0' | N 19°37.4' | 129°53.0' | 13.7' | N 9°49.3' | 10.8' | 55.7' |
| 16 | 183°04.3' | 58°22.0' | N 19°36.8' | 144°25.7' | 13.7' | N 10°00.1' | 10.7' | 55.8' |
| 17 | 198°06.7' | 73°22.0' | N 19°36.3' | 158°58.4' | 13.6' | N 10°10.8' | 10.7' | 55.8' |
| 18 | 213°09.2' | 88°22.0' | N 19°35.8' | 173°31.0' | 13.5' | N 10°21.5' | 10.7' | 55.8' |
| 19 | 228°11.7' | 103°22.0' | N 19°35.2' | 188°03.5' | 13.5' | N 10°32.2' | 10.6' | 55.8' |
| 20 | 243°14.1' | 118°22.0' | N 19°34.7' | 202°35.9' | 13.4' | N 10°42.8' | 10.6' | 55.9' |
| 21 | 258°16.6' | 133°21.9' | N 19°34.1' | 217°08.3' | 13.3' | N 10°53.4' | 10.6' | 55.9' |
| 22 | 273°19.1' | 148°21.9' | N 19°33.6' | 231°40.6' | 13.2' | N 11°03.9' | 10.5' | 55.9' |
| 23 | 288°21.5' | 163°21.9' | N 19°33.0' | 246°12.9' | 13.2' | N 11°14.5' | 10.5' | 56.0' |

Fri Jul 26, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|-------|-------|
| | GHA | d = 0.6' SD = 15.7' | | SD = 15.4' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 303°24.0' | 178°21.9' | N 19°32.5' | 260°45.1' | 13.1' | N 11°24.9' | 10.4' | 56.0' |
| 1 | 318°26.5' | 193°21.9' | N 19°31.9' | 275°17.2' | 13.0' | N 11°35.4' | 10.4' | 56.0' |
| 2 | 333°28.9' | 208°21.9' | N 19°31.4' | 289°49.2' | 13.0' | N 11°45.8' | 10.4' | 56.1' |
| 3 | 348°31.4' | 223°21.9' | N 19°30.9' | 304°21.2' | 12.9' | N 11°56.1' | 10.3' | 56.1' |
| 4 | 3°33.8' | 238°21.9' | N 19°30.3' | 318°53.1' | 12.8' | N 12°06.4' | 10.3' | 56.1' |
| 5 | 18°36.3' | 253°21.9' | N 19°29.8' | 333°24.9' | 12.7' | N 12°16.7' | 10.2' | 56.2' |
| 6 | 33°38.8' | 268°21.9' | N 19°29.2' | 347°56.6' | 12.7' | N 12°26.9' | 10.2' | 56.2' |
| 7 | 48°41.2' | 283°21.9' | N 19°28.7' | 2°28.2' | 12.6' | N 12°37.1' | 10.1' | 56.2' |
| 8 | 63°43.7' | 298°21.9' | N 19°28.1' | 16°59.8' | 12.5' | N 12°47.3' | 10.1' | 56.3' |
| 9 | 78°46.2' | 313°21.9' | N 19°27.6' | 31°31.3' | 12.4' | N 12°57.3' | 10.0' | 56.3' |
| 10 | 93°48.6' | 328°21.9' | N 19°27.0' | 46°02.7' | 12.3' | N 13°07.4' | 10.0' | 56.3' |
| 11 | 108°51.1' | 343°21.9' | N 19°26.5' | 60°34.1' | 12.3' | N 13°17.4' | 9.9' | 56.4' |
| 12 | 123°53.6' | 358°21.9' | N 19°25.9' | 75°05.3' | 12.2' | N 13°27.3' | 9.9' | 56.4' |
| 13 | 138°56.0' | 13°21.9' | N 19°25.4' | 89°36.5' | 12.1' | N 13°37.2' | 9.8' | 56.4' |
| 14 | 153°58.5' | 28°21.9' | N 19°24.8' | 104°07.6' | 12.0' | N 13°47.0' | 9.8' | 56.5' |
| 15 | 169°01.0' | 43°21.9' | N 19°24.3' | 118°38.6' | 11.9' | N 13°56.8' | 9.7' | 56.5' |
| 16 | 184°03.4' | 58°21.9' | N 19°23.7' | 133°09.5' | 11.8' | N 14°06.5' | 9.7' | 56.5' |
| 17 | 199°05.9' | 73°21.9' | N 19°23.1' | 147°40.3' | 11.7' | N 14°16.2' | 9.6' | 56.6' |
| 18 | 214°08.3' | 88°21.9' | N 19°22.6' | 162°11.1' | 11.7' | N 14°25.8' | 9.6' | 56.6' |
| 19 | 229°10.8' | 103°21.9' | N 19°22.0' | 176°41.7' | 11.6' | N 14°35.4' | 9.5' | 56.6' |
| 20 | 244°13.3' | 118°21.9' | N 19°21.5' | 191°12.3' | 11.5' | N 14°44.8' | 9.4' | 56.7' |
| 21 | 259°15.7' | 133°21.9' | N 19°20.9' | 205°42.8' | 11.4' | N 14°54.3' | 9.4' | 56.7' |
| 22 | 274°18.2' | 148°21.9' | N 19°20.4' | 220°13.2' | 11.3' | N 15°03.6' | 9.3' | 56.7' |
| 23 | 289°20.7' | 163°21.9' | N 19°19.8' | 234°43.5' | 11.2' | N 15°13.0' | 9.2' | 56.8' |

Sat Jul 27, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|-------|------------|------|-------|
| | GHA | d = 0.6' SD = 15.7' | | SD = 15.6' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 304°23.1' | 178°21.9' | N 19°19.2' | 249°13.7' | 11.1' | N 15°22.2' | 9.2' | 56.8' |
| 1 | 319°25.6' | 193°21.9' | N 19°18.7' | 263°43.8' | 11.0' | N 15°31.4' | 9.1' | 56.9' |
| 2 | 334°28.1' | 208°21.9' | N 19°18.1' | 278°13.9' | 10.9' | N 15°40.5' | 9.0' | 56.9' |
| 3 | 349°30.5' | 223°21.9' | N 19°17.6' | 292°43.8' | 10.9' | N 15°49.5' | 9.0' | 56.9' |
| 4 | 4°33.0' | 238°22.0' | N 19°17.0' | 307°13.7' | 10.8' | N 15°58.5' | 8.9' | 57.0' |
| 5 | 19°35.5' | 253°22.0' | N 19°16.4' | 321°43.4' | 10.7' | N 16°07.4' | 8.8' | 57.0' |
| 6 | 34°37.9' | 268°22.0' | N 19°15.9' | 336°13.1' | 10.6' | N 16°16.2' | 8.8' | 57.0' |
| 7 | 49°40.4' | 283°22.0' | N 19°15.3' | 350°42.7' | 10.5' | N 16°25.0' | 8.7' | 57.1' |
| 8 | 64°42.8' | 298°22.0' | N 19°14.8' | 5°12.1' | 10.4' | N 16°33.7' | 8.6' | 57.1' |
| 9 | 79°45.3' | 313°22.0' | N 19°14.2' | 19°41.5' | 10.3' | N 16°42.3' | 8.5' | 57.2' |
| 10 | 94°47.8' | 328°22.0' | N 19°13.6' | 34°10.8' | 10.2' | N 16°50.8' | 8.5' | 57.2' |
| 11 | 109°50.2' | 343°22.0' | N 19°13.1' | 48°40.0' | 10.1' | N 16°59.3' | 8.4' | 57.2' |
| 12 | 124°52.7' | 358°22.0' | N 19°12.5' | 63°09.1' | 10.0' | N 17°07.7' | 8.3' | 57.3' |
| 13 | 139°55.2' | 13°22.0' | N 19°11.9' | 77°38.1' | 9.9' | N 17°16.0' | 8.2' | 57.3' |
| 14 | 154°57.6' | 28°22.0' | N 19°11.4' | 92°07.0' | 9.8' | N 17°24.2' | 8.1' | 57.3' |
| 15 | 170°00.1' | 43°22.0' | N 19°10.8' | 106°35.8' | 9.7' | N 17°32.3' | 8.1' | 57.4' |
| 16 | 185°02.6' | 58°22.0' | N 19°10.2' | 121°04.5' | 9.6' | N 17°40.4' | 8.0' | 57.4' |
| 17 | 200°05.0' | 73°22.0' | N 19°09.7' | 135°33.1' | 9.5' | N 17°48.3' | 7.9' | 57.5' |
| 18 | 215°07.5' | 88°22.0' | N 19°09.1' | 150°01.6' | 9.4' | N 17°56.2' | 7.8' | 57.5' |
| 19 | 230°10.0' | 103°22.0' | N 19°08.5' | 164°30.1' | 9.3' | N 18°04.0' | 7.7' | 57.5' |
| 20 | 245°12.4' | 118°22.0' | N 19°08.0' | 178°58.4' | 9.2' | N 18°11.7' | 7.6' | 57.6' |
| 21 | 260°14.9' | 133°22.1' | N 19°07.4' | 193°26.6' | 9.1' | N 18°19.3' | 7.5' | 57.6' |
| 22 | 275°17.3' | 148°22.1' | N 19°06.8' | 207°54.7' | 9.0' | N 18°26.9' | 7.4' | 57.7' |
| 23 | 290°19.8' | 163°22.1' | N 19°06.3' | 222°22.7' | 8.9' | N 18°34.3' | 7.3' | 57.7' |

Sun Jul 28, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.6' SD = 15.7' | | SD = 15.9' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 305°22.3' | 178°22.1' | N 19°05.7' | 236°50.7' | 8.8' | N 18°41.6' | 7.2' | 57.7' |
| 1 | 320°24.7' | 193°22.1' | N 19°05.1' | 251°18.5' | 8.7' | N 18°48.9' | 7.1' | 57.8' |
| 2 | 335°27.2' | 208°22.1' | N 19°04.5' | 265°46.2' | 8.6' | N 18°56.0' | 7.0' | 57.8' |
| 3 | 350°29.7' | 223°22.1' | N 19°04.0' | 280°13.8' | 8.5' | N 19°03.0' | 6.9' | 57.8' |
| 4 | 5°32.1' | 238°22.1' | N 19°03.4' | 294°41.4' | 8.4' | N 19°10.0' | 6.8' | 57.9' |
| 5 | 20°34.6' | 253°22.1' | N 19°02.8' | 309°08.8' | 8.3' | N 19°16.8' | 6.7' | 57.9' |
| 6 | 35°37.1' | 268°22.1' | N 19°02.2' | 323°36.1' | 8.2' | N 19°23.6' | 6.6' | 58.0' |
| 7 | 50°39.5' | 283°22.1' | N 19°01.7' | 338°03.4' | 8.1' | N 19°30.2' | 6.5' | 58.0' |
| 8 | 65°42.0' | 298°22.2' | N 19°01.1' | 352°30.5' | 8.0' | N 19°36.8' | 6.4' | 58.0' |
| 9 | 80°44.4' | 313°22.2' | N 19°00.5' | 6°57.5' | 7.9' | N 19°43.2' | 6.3' | 58.1' |
| 10 | 95°46.9' | 328°22.2' | N 18°59.9' | 21°24.5' | 7.8' | N 19°49.5' | 6.2' | 58.1' |
| 11 | 110°49.4' | 343°22.2' | N 18°59.4' | 35°51.3' | 7.7' | N 19°55.7' | 6.1' | 58.2' |
| 12 | 125°51.8' | 358°22.2' | N 18°58.8' | 50°18.1' | 7.7' | N 20°01.8' | 6.0' | 58.2' |
| 13 | 140°54.3' | 13°22.2' | N 18°58.2' | 64°44.7' | 7.6' | N 20°07.8' | 5.9' | 58.2' |
| 14 | 155°56.8' | 28°22.2' | N 18°57.6' | 79°11.3' | 7.5' | N 20°13.7' | 5.8' | 58.3' |
| 15 | 170°59.2' | 43°22.2' | N 18°57.0' | 93°37.8' | 7.4' | N 20°19.5' | 5.7' | 58.3' |
| 16 | 186°01.7' | 58°22.3' | N 18°56.5' | 108°04.1' | 7.3' | N 20°25.1' | 5.5' | 58.3' |
| 17 | 201°04.2' | 73°22.3' | N 18°55.9' | 122°30.4' | 7.2' | N 20°30.6' | 5.4' | 58.4' |
| 18 | 216°06.6' | 88°22.3' | N 18°55.3' | 136°56.6' | 7.1' | N 20°36.1' | 5.3' | 58.4' |
| 19 | 231°09.1' | 103°22.3' | N 18°54.7' | 151°22.6' | 7.0' | N 20°41.4' | 5.2' | 58.5' |
| 20 | 246°11.6' | 118°22.3' | N 18°54.1' | 165°48.6' | 6.9' | N 20°46.5' | 5.1' | 58.5' |
| 21 | 261°14.0' | 133°22.3' | N 18°53.5' | 180°14.5' | 6.8' | N 20°51.6' | 4.9' | 58.5' |
| 22 | 276°16.5' | 148°22.3' | N 18°53.0' | 194°40.3' | 6.7' | N 20°56.5' | 4.8' | 58.6' |
| 23 | 291°18.9' | 163°22.4' | N 18°52.4' | 209°06.1' | 6.6' | N 21°01.3' | 4.7' | 58.6' |

Mon Jul 29, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.6' SD = 15.8' | | SD = 16.1' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 306°21.4' | 178°22.4' | N 18°51.8' | 223°31.7' | 6.5' | N 21°06.0' | 4.6' | 58.7' |
| 1 | 321°23.9' | 193°22.4' | N 18°51.2' | 237°57.2' | 6.4' | N 21°10.6' | 4.4' | 58.7' |
| 2 | 336°26.3' | 208°22.4' | N 18°50.6' | 252°22.7' | 6.4' | N 21°15.0' | 4.3' | 58.7' |
| 3 | 351°28.8' | 223°22.4' | N 18°50.0' | 266°48.0' | 6.3' | N 21°19.3' | 4.2' | 58.8' |
| 4 | 6°31.3' | 238°22.4' | N 18°49.5' | 281°13.3' | 6.2' | N 21°23.5' | 4.0' | 58.8' |
| 5 | 21°33.7' | 253°22.4' | N 18°48.9' | 295°38.5' | 6.1' | N 21°27.5' | 3.9' | 58.8' |
| 6 | 36°36.2' | 268°22.5' | N 18°48.3' | 310°03.6' | 6.0' | N 21°31.4' | 3.8' | 58.9' |
| 7 | 51°38.7' | 283°22.5' | N 18°47.7' | 324°28.6' | 5.9' | N 21°35.2' | 3.6' | 58.9' |
| 8 | 66°41.1' | 298°22.5' | N 18°47.1' | 338°53.6' | 5.9' | N 21°38.8' | 3.5' | 59.0' |
| 9 | 81°43.6' | 313°22.5' | N 18°46.5' | 353°18.4' | 5.8' | N 21°42.3' | 3.4' | 59.0' |
| 10 | 96°46.1' | 328°22.5' | N 18°45.9' | 7°43.2' | 5.7' | N 21°45.7' | 3.2' | 59.0' |
| 11 | 111°48.5' | 343°22.5' | N 18°45.3' | 22°07.9' | 5.6' | N 21°48.9' | 3.1' | 59.1' |
| 12 | 126°51.0' | 358°22.6' | N 18°44.7' | 36°32.5' | 5.5' | N 21°52.0' | 2.9' | 59.1' |
| 13 | 141°53.4' | 13°22.6' | N 18°44.1' | 50°57.1' | 5.5' | N 21°54.9' | 2.8' | 59.1' |
| 14 | 156°55.9' | 28°22.6' | N 18°43.6' | 65°21.5' | 5.4' | N 21°57.7' | 2.7' | 59.2' |
| 15 | 171°58.4' | 43°22.6' | N 18°43.0' | 79°45.9' | 5.3' | N 22°00.4' | 2.5' | 59.2' |
| 16 | 187°00.8' | 58°22.6' | N 18°42.4' | 94°10.3' | 5.3' | N 22°02.9' | 2.4' | 59.3' |
| 17 | 202°03.3' | 73°22.7' | N 18°41.8' | 108°34.5' | 5.2' | N 22°05.3' | 2.2' | 59.3' |
| 18 | 217°05.8' | 88°22.7' | N 18°41.2' | 122°58.7' | 5.1' | N 22°07.5' | 2.1' | 59.3' |
| 19 | 232°08.2' | 103°22.7' | N 18°40.6' | 137°22.8' | 5.0' | N 22°09.6' | 1.9' | 59.4' |
| 20 | 247°10.7' | 118°22.7' | N 18°40.0' | 151°46.9' | 5.0' | N 22°11.5' | 1.8' | 59.4' |
| 21 | 262°13.2' | 133°22.7' | N 18°39.4' | 166°10.9' | 4.9' | N 22°13.3' | 1.6' | 59.4' |
| 22 | 277°15.6' | 148°22.8' | N 18°38.8' | 180°34.8' | 4.9' | N 22°14.9' | 1.5' | 59.5' |
| 23 | 292°18.1' | 163°22.8' | N 18°38.2' | 194°58.6' | 4.8' | N 22°16.4' | 1.3' | 59.5' |

Tue Jul 30, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|------------|------|------------|------|-------|
| | GHA | d = 0.6' SD = 15.8' | | SD = 16.3' | | | | |
| | GHA | GHA | dec | GHA | v | dec | d | HP |
| 0 | 307°20.6' | 178°22.8' | N 18°37.6' | 209°22.4' | 4.7' | N 22°17.8' | 1.2' | 59.5' |
| 1 | 322°23.0' | 193°22.8' | N 18°37.0' | 223°46.2' | 4.7' | N 22°18.9' | 1.0' | 59.6' |
| 2 | 337°25.5' | 208°22.8' | N 18°36.4' | 238°09.9' | 4.6' | N 22°20.0' | 0.9' | 59.6' |
| 3 | 352°27.9' | 223°22.9' | N 18°35.8' | 252°33.5' | 4.6' | N 22°20.8' | 0.7' | 59.6' |
| 4 | 7°30.4' | 238°22.9' | N 18°35.2' | 266°57.1' | 4.5' | N 22°21.6' | 0.6' | 59.7' |
| 5 | 22°32.9' | 253°22.9' | N 18°34.6' | 281°20.6' | 4.5' | N 22°22.1' | 0.4' | 59.7' |
| 6 | 37°35.3' | 268°22.9' | N 18°34.0' | 295°44.1' | 4.4' | N 22°22.6' | 0.3' | 59.7' |
| 7 | 52°37.8' | 283°23.0' | N 18°33.4' | 310°07.5' | 4.4' | N 22°22.8' | 0.1' | 59.8' |
| 8 | 67°40.3' | 298°23.0' | N 18°32.8' | 324°30.9' | 4.3' | N 22°22.9' | 0.1' | 59.8' |
| 9 | 82°42.7' | 313°23.0' | N 18°32.2' | 338°54.2' | 4.3' | N 22°22.9' | 0.2' | 59.8' |
| 10 | 97°45.2' | 328°23.0' | N 18°31.6' | 353°17.5' | 4.3' | N 22°22.7' | 0.4' | 59.9' |
| 11 | 112°47.7' | 343°23.1' | N 18°31.0' | 7°40.7' | 4.2' | N 22°22.3' | 0.5' | 59.9' |
| 12 | 127°50.1' | 358°23.1' | N 18°30.4' | 22°03.9' | 4.2' | N 22°21.8' | 0.7' | 59.9' |
| 13 | 142°52.6' | 13°23.1' | N 18°29.8' | 36°27.1' | 4.1' | N 22°21.1' | 0.8' | 60.0' |
| 14 | 157°55.1' | 28°23.1' | N 18°29.2' | 50°50.3' | 4.1' | N 22°20.2' | 1.0' | 60.0' |
| 15 | 172°57.5' | 43°23.2' | N 18°28.6' | 65°13.4' | 4.1' | N 22°19.2' | 1.2' | 60.0' |
| 16 | 187°60.0' | 58°23.2' | N 18°28.0' | 79°36.4' | 4.0' | N 22°18.1' | 1.3' | 60.0' |
| 17 | 203°02.4' | 73°23.2' | N 18°27.4' | 93°59.5' | 4.0' | N 22°16.7' | 1.5' | 60.1' |
| 18 | 218°04.9' | 88°23.2' | N 18°26.8' | 108°22.5' | 4.0' | N 22°15.3' | 1.6' | 60.1' |
| 19 | 233°07.4' | 103°23.3' | N 18°26.1' | 122°45.5' | 4.0' | N 22°13.6' | 1.8' | 60.1' |
| 20 | 248°09.8' | 118°23.3' | N 18°25.5' | 137°08.5' | 4.0' | N 22°11.8' | 2.0' | 60.2' |
| 21 | 263°12.3' | 133°23.3' | N 18°24.9' | 151°31.4' | 3.9' | N 22°09.8' | 2.1' | 60.2' |
| 22 | 278°14.8' | 148°23.3' | N 18°24.3' | 165°54.4' | 3.9' | N 22°07.7' | 2.3' | 60.2' |
| 23 | 293°17.2' | 163°23.4' | N 18°23.7' | 180°17.3' | 3.9' | N 22°05.4' | 2.4' | 60.2' |

Wed Jul 31, 2019 UTC

| UTC | Aries | Sun | | Moon | | | | |
|-----|-----------|---------------------|------------|-----------|------|------------|------|-------|
| | GHA | d = 0.6' SD = 15.8' | | GHA | v | SD = 16.5' | d | HP |
| | | GHA | dec | | | dec | | |
| 0 | 308°19.7' | 178°23.4' | N 18°23.1' | 194°40.2' | 3.9' | N 22°03.0' | 2.6' | 60.3' |
| 1 | 323°22.2' | 193°23.4' | N 18°22.5' | 209°03.1' | 3.9' | N 22°00.4' | 2.8' | 60.3' |
| 2 | 338°24.6' | 208°23.4' | N 18°21.9' | 223°25.9' | 3.9' | N 21°57.6' | 2.9' | 60.3' |
| 3 | 353°27.1' | 223°23.5' | N 18°21.3' | 237°48.8' | 3.9' | N 21°54.7' | 3.1' | 60.3' |
| 4 | 8°29.5' | 238°23.5' | N 18°20.7' | 252°11.7' | 3.9' | N 21°51.6' | 3.3' | 60.4' |
| 5 | 23°32.0' | 253°23.5' | N 18°20.0' | 266°34.5' | 3.9' | N 21°48.3' | 3.4' | 60.4' |
| 6 | 38°34.5' | 268°23.6' | N 18°19.4' | 280°57.4' | 3.9' | N 21°44.9' | 3.6' | 60.4' |
| 7 | 53°36.9' | 283°23.6' | N 18°18.8' | 295°20.2' | 3.9' | N 21°41.3' | 3.7' | 60.4' |
| 8 | 68°39.4' | 298°23.6' | N 18°18.2' | 309°43.1' | 3.9' | N 21°37.6' | 3.9' | 60.5' |
| 9 | 83°41.9' | 313°23.6' | N 18°17.6' | 324°06.0' | 3.9' | N 21°33.7' | 4.1' | 60.5' |
| 10 | 98°44.3' | 328°23.7' | N 18°17.0' | 338°28.8' | 3.9' | N 21°29.7' | 4.2' | 60.5' |
| 11 | 113°46.8' | 343°23.7' | N 18°16.4' | 352°51.7' | 3.9' | N 21°25.5' | 4.4' | 60.5' |
| 12 | 128°49.3' | 358°23.7' | N 18°15.7' | 7°14.6' | 3.9' | N 21°21.1' | 4.5' | 60.5' |
| 13 | 143°51.7' | 13°23.8' | N 18°15.1' | 21°37.4' | 3.9' | N 21°16.6' | 4.7' | 60.6' |
| 14 | 158°54.2' | 28°23.8' | N 18°14.5' | 36°00.3' | 3.9' | N 21°11.9' | 4.8' | 60.6' |
| 15 | 173°56.7' | 43°23.8' | N 18°13.9' | 50°23.3' | 3.9' | N 21°07.0' | 5.0' | 60.6' |
| 16 | 188°59.1' | 58°23.9' | N 18°13.3' | 64°46.2' | 4.0' | N 21°02.0' | 5.2' | 60.6' |
| 17 | 204°01.6' | 73°23.9' | N 18°12.6' | 79°09.1' | 4.0' | N 20°56.9' | 5.3' | 60.7' |
| 18 | 219°04.0' | 88°23.9' | N 18°12.0' | 93°32.1' | 4.0' | N 20°51.6' | 5.5' | 60.7' |
| 19 | 234°06.5' | 103°24.0' | N 18°11.4' | 107°55.1' | 4.0' | N 20°46.1' | 5.6' | 60.7' |
| 20 | 249°09.0' | 118°24.0' | N 18°10.8' | 122°18.1' | 4.0' | N 20°40.5' | 5.8' | 60.7' |
| 21 | 264°11.4' | 133°24.0' | N 18°10.2' | 136°41.2' | 4.1' | N 20°34.7' | 5.9' | 60.7' |
| 22 | 279°13.9' | 148°24.1' | N 18°09.5' | 151°04.2' | 4.1' | N 20°28.8' | 6.1' | 60.7' |
| 23 | 294°16.4' | 163°24.1' | N 18°08.9' | 165°27.3' | 4.1' | N 20°22.7' | 6.2' | 60.8' |