

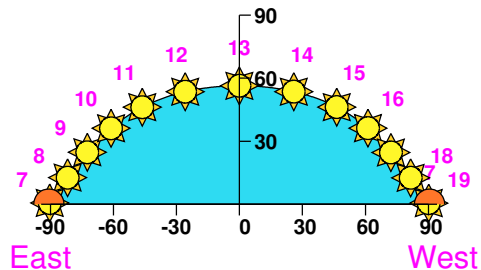
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Los Angeles
-118.24°E, 34.05°N

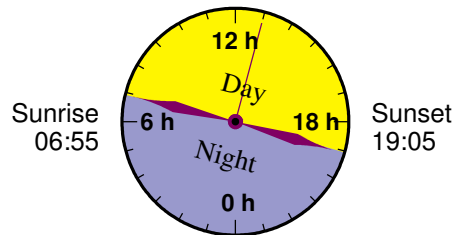


Spring



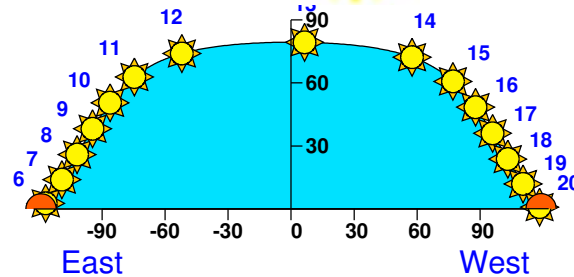
March 21

Day duration 12:10



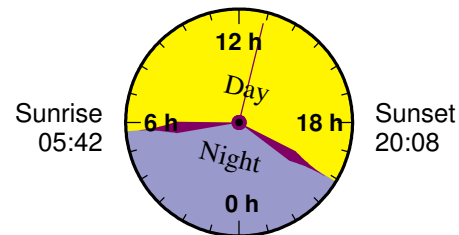
Spring Equinox

Summer



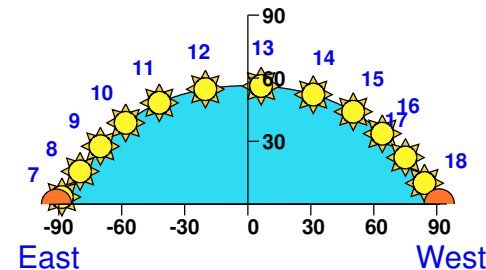
June 21

Day duration 14:25



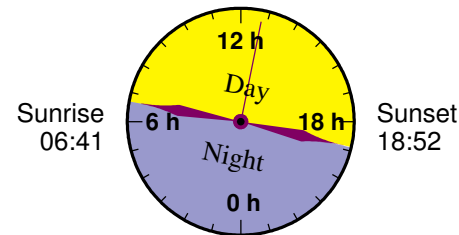
Summer Solstice

Autumn



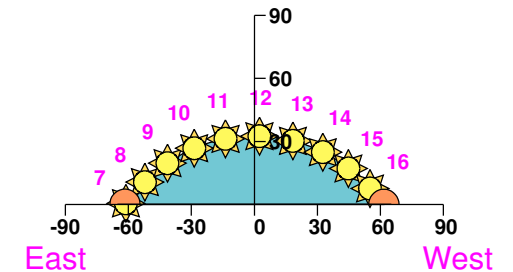
Sept. 21

Day duration 12:12



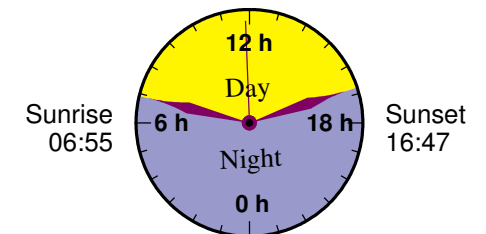
Autumn Equinox

Winter



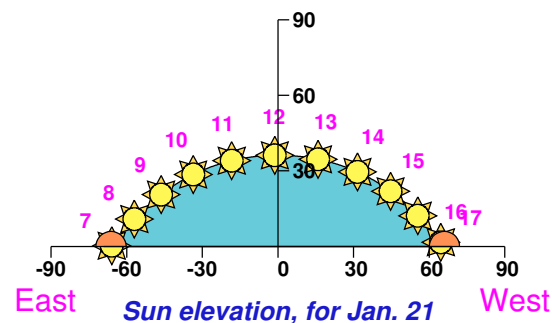
Dec. 21

Day duration 9:52



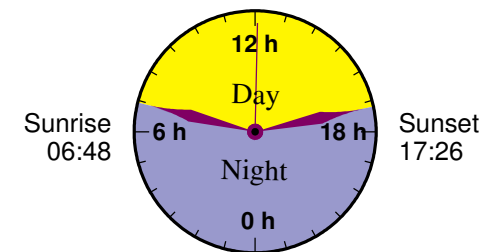
Winter Solstice

January 2018



Los Angeles

-118.24°E, 34.05°N

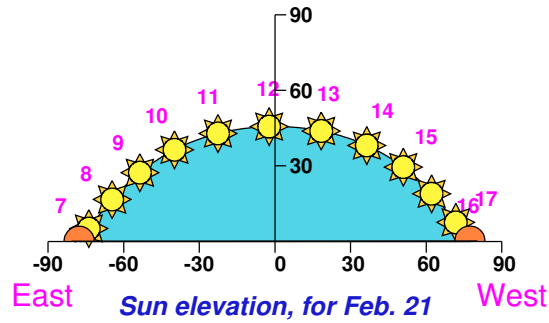


Duration of the day, for January 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation (°)

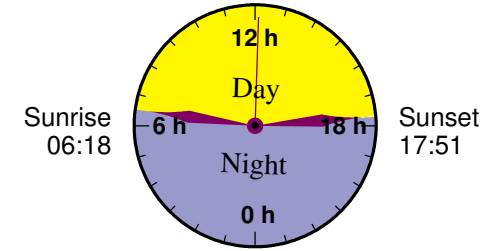
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 06:59 - 16:54 33° 	2 2 - 363 06:59 - 16:55 33° 	3 3 - 362 06:59 - 16:56 33° 	4 4 - 361 06:59 - 16:57 33° 	5 5 - 360 06:59 - 16:57 33° 	6 6 - 359 06:59 - 16:58 34° 	7 7 - 358 06:59 - 16:59 34°
2	8 8 - 357 06:59 - 17:00 34° 	9 9 - 356 06:59 - 17:01 34° 	10 10 - 355 06:59 - 17:02 34° 	11 11 - 354 06:59 - 17:03 34° 	12 12 - 353 06:59 - 17:03 34° 	13 13 - 352 06:59 - 17:04 35° 	14 14 - 351 06:59 - 17:05 35°
3	15 15 - 350 06:58 - 17:06 35° 	16 16 - 349 06:58 - 17:07 35° 	17 17 - 348 06:58 - 17:08 35° 	18 18 - 347 06:58 - 17:09 36° 	19 19 - 346 06:57 - 17:10 36° 	20 20 - 345 06:57 - 17:11 36° 	21 21 - 344 06:56 - 17:12 36°
4	22 22 - 343 06:56 - 17:13 36° 	23 23 - 342 06:56 - 17:14 37° 	24 24 - 341 06:55 - 17:15 37° 	25 25 - 340 06:55 - 17:16 37° 	26 26 - 339 06:54 - 17:17 37° 	27 27 - 338 06:53 - 17:18 38° 	28 28 - 337 06:53 - 17:19 38°
5	29 29 - 336 06:52 - 17:20 38° 	30 30 - 335 06:52 - 17:21 38° 	31 31 - 334 06:51 - 17:22 39° 				

February 2018



Los Angeles

-118.24°E, 34.05°N



Duration of the day, for February 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

1 32 - 333 06:50 - 17:23 39°	2 33 - 332 06:49 - 17:24 39°	3 34 - 331 06:49 - 17:25 40°	4 35 - 330 06:48 - 17:26 40°

6

5 36 - 329 06:47 - 17:27 40°	6 37 - 328 06:46 - 17:28 41°	7 38 - 327 06:45 - 17:29 41°	8 39 - 326 06:44 - 17:30 41°	9 40 - 325 06:44 - 17:31 41°	10 41 - 324 06:43 - 17:32 42°	11 42 - 323 06:42 - 17:32 42°

7

12 43 - 322 06:41 - 17:33 42°	13 44 - 321 06:40 - 17:34 43°	14 45 - 320 06:39 - 17:35 43°	15 46 - 319 06:38 - 17:36 43°	16 47 - 318 06:37 - 17:37 44°	17 48 - 317 06:36 - 17:38 44°	18 49 - 316 06:35 - 17:39 45°

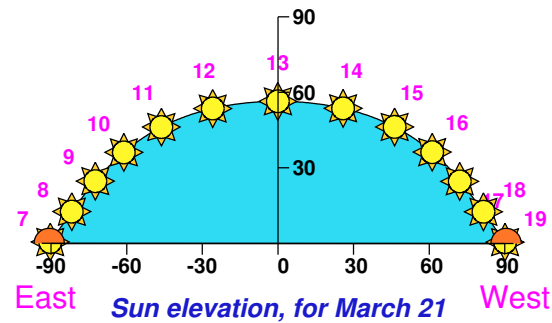
8

19 50 - 315 06:33 - 17:40 45°	20 51 - 314 06:32 - 17:41 45°	21 52 - 313 06:31 - 17:42 46°	22 53 - 312 06:30 - 17:43 46°	23 54 - 311 06:29 - 17:44 46°	24 55 - 310 06:28 - 17:44 47°	25 56 - 309 06:27 - 17:45 47°

9

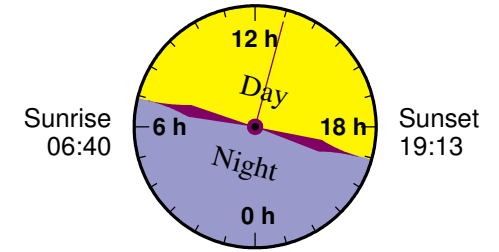
26 57 - 308 06:25 - 17:46 47°	27 58 - 307 06:24 - 17:47 48°	28 59 - 306 06:23 - 17:48 48°

March 2018



Los Angeles

-118.24°E, 34.05°N



Duration of the day, for March 21

Sunrise and Sunset at Los Angeles (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Time change March 11

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305 06:22 - 17:49 49° 	2 61 - 304 06:20 - 17:50 49° 	3 62 - 303 06:19 - 17:50 49° 	4 63 - 302 06:18 - 17:51 50°
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10

5 64 - 301 06:17 - 17:52 50° 	6 65 - 300 06:15 - 17:53 51° 	7 66 - 299 06:14 - 17:54 51° 	8 67 - 298 06:13 - 17:55 51° 	9 68 - 297 06:11 - 17:55 52° 	10 69 - 296 06:10 - 17:56 52° 	11 70 - 295 07:09 - 18:57 52°
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11

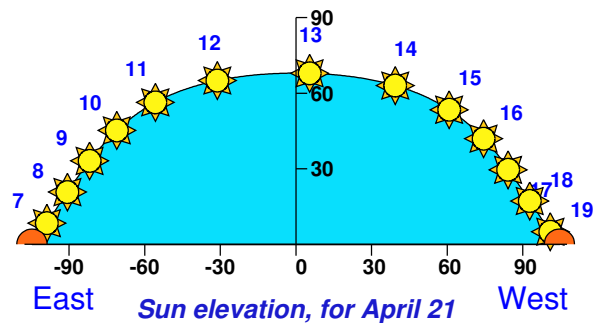
12 71 - 294 07:07 - 18:58 53° 	13 72 - 293 07:06 - 18:59 53° 	14 73 - 292 07:05 - 18:59 54° 	15 74 - 291 07:03 - 19:00 54° 	16 75 - 290 07:02 - 19:01 54° 	17 76 - 289 07:01 - 19:02 55° 	18 77 - 288 06:59 - 19:03 55°
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12

19 78 - 287 06:58 - 19:03 56° 	20 79 - 286 06:57 - 19:04 56° 	21 80 - 285 06:55 - 19:05 56° 	22 81 - 284 06:54 - 19:06 57° 	23 82 - 283 06:53 - 19:06 57° 	24 83 - 282 06:51 - 19:07 58° 	25 84 - 281 06:50 - 19:08 58°
---	---	---	---	---	---	---

13

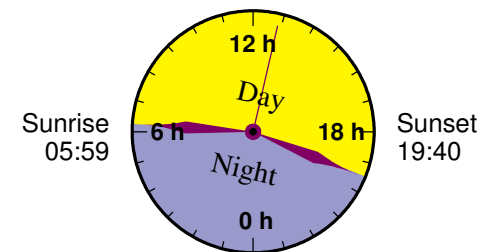
26 85 - 280 06:48 - 19:09 58° 	27 86 - 279 06:47 - 19:09 59° 	28 87 - 278 06:46 - 19:10 59° 	29 88 - 277 06:44 - 19:11 60° 	30 89 - 276 06:43 - 19:12 60° 	31 90 - 275 06:42 - 19:13 60°
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April 2018

Los Angeles

-118.24°E, 34.05°N



Duration of the day, for April 21

Sunrise and Sunset at Los Angeles (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

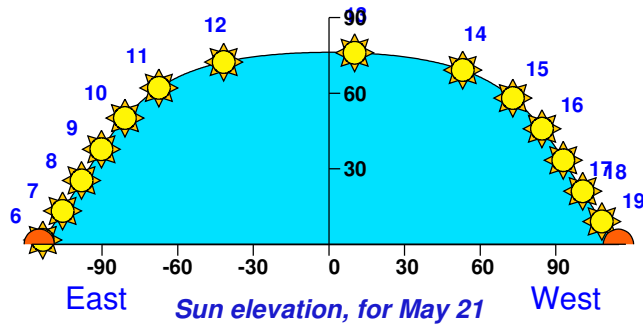
15

16

17

18

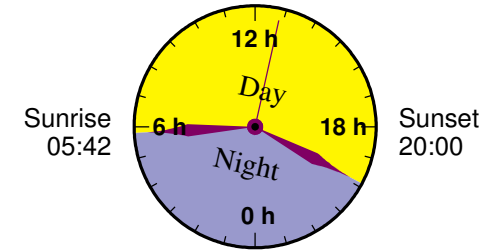
						1 91 - 274 06:40 - 19:13 61°
2 92 - 273 06:39 - 19:14 61° 	3 93 - 272 06:38 - 19:15 61° 	4 94 - 271 06:36 - 19:16 62° 	5 95 - 270 06:35 - 19:16 62° 	6 96 - 269 06:34 - 19:17 63° 	7 97 - 268 06:32 - 19:18 63° 	8 98 - 267 06:31 - 19:19 63°
9 99 - 266 06:30 - 19:19 64° 	10 100 - 265 06:28 - 19:20 64° 	11 101 - 264 06:27 - 19:21 64° 	12 102 - 263 06:26 - 19:22 65° 	13 103 - 262 06:25 - 19:22 65° 	14 104 - 261 06:23 - 19:23 66° 	15 105 - 260 06:22 - 19:24 66°
16 106 - 259 06:21 - 19:25 66° 	17 107 - 258 06:20 - 19:25 67° 	18 108 - 257 06:18 - 19:26 67° 	19 109 - 256 06:17 - 19:27 67° 	20 110 - 255 06:16 - 19:28 68° 	21 111 - 254 06:15 - 19:29 68° 	22 112 - 253 06:14 - 19:29 68°
23 113 - 252 06:12 - 19:30 69° 	24 114 - 251 06:11 - 19:31 69° 	25 115 - 250 06:10 - 19:32 69° 	26 116 - 249 06:09 - 19:32 70° 	27 117 - 248 06:08 - 19:33 70° 	28 118 - 247 06:07 - 19:34 70° 	29 119 - 246 06:06 - 19:35 71°
30 120 - 245 06:05 - 19:36 71° 						



May 2018

Los Angeles

-118.24°E, 34.05°N



Duration of the day, for May 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation (°)

18

19

20

21

22

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 121 - 244
06:04 - 19:36 71°

2 122 - 243
06:03 - 19:37 71°

3 123 - 242
06:02 - 19:38 72°

4 124 - 241
06:01 - 19:39 72°

5 125 - 240
06:00 - 19:39 72°

6 126 - 239
05:59 - 19:40 73°

7 127 - 238
05:58 - 19:41 73°

8 128 - 237
05:57 - 19:42 73°

9 129 - 236
05:56 - 19:43 73°

10 130 - 235
05:55 - 19:43 74°

11 131 - 234
05:55 - 19:44 74°

12 132 - 233
05:54 - 19:45 74°

13 133 - 232
05:53 - 19:46 74°

14 134 - 231
05:52 - 19:46 75°

15 135 - 230
05:51 - 19:47 75°

16 136 - 229
05:51 - 19:48 75°

17 137 - 228
05:50 - 19:49 75°

18 138 - 227
05:49 - 19:49 76°

19 139 - 226
05:49 - 19:50 76°

20 140 - 225
05:48 - 19:51 76°

21 141 - 224
05:48 - 19:52 76°

22 142 - 223
05:47 - 19:52 76°

23 143 - 222
05:46 - 19:53 77°

24 144 - 221
05:46 - 19:54 77°

25 145 - 220
05:45 - 19:54 77°

26 146 - 219
05:45 - 19:55 77°

27 147 - 218
05:45 - 19:56 77°

28 148 - 217
05:44 - 19:56 78°

29 149 - 216
05:44 - 19:57 78°

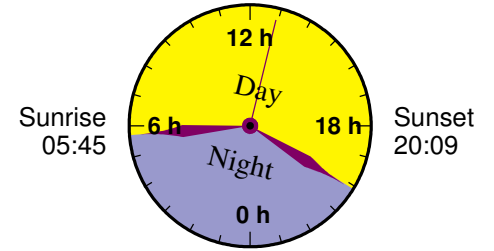
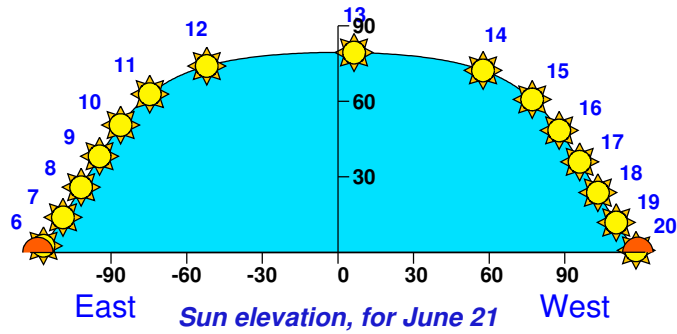
30 150 - 215
05:43 - 19:58 78°

31 151 - 214
05:43 - 19:58 78°

June 2018

Los Angeles

-118.24°E, 34.05°N



Duration of the day, for June 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213
05:43 - 19:59 78°

2 153 - 212
05:42 - 20:00 78°

3 154 - 211
05:42 - 20:00 78°

23

4 155 - 210
05:42 - 20:01 78°

5 156 - 209
05:42 - 20:01 79°

6 157 - 208
05:42 - 20:02 79°

7 158 - 207
05:42 - 20:02 79°

8 159 - 206
05:41 - 20:03 79°

9 160 - 205
05:41 - 20:03 79°

10 161 - 204
05:41 - 20:04 79°

24

11 162 - 203
05:41 - 20:04 79°

12 163 - 202
05:41 - 20:05 79°

13 164 - 201
05:41 - 20:05 79°

14 165 - 200
05:41 - 20:05 79°

15 166 - 199
05:41 - 20:06 79°

16 167 - 198
05:41 - 20:06 79°

17 168 - 197
05:41 - 20:06 79°

25

18 169 - 196
05:42 - 20:07 79°

19 170 - 195
05:42 - 20:07 79°

20 171 - 194
05:42 - 20:07 79°

21 172 - 193
05:42 - 20:08 79°

22 173 - 192
05:42 - 20:08 79°

23 174 - 191
05:43 - 20:08 79°

24 175 - 190
05:43 - 20:08 79°

26

25 176 - 189
05:43 - 20:08 79°

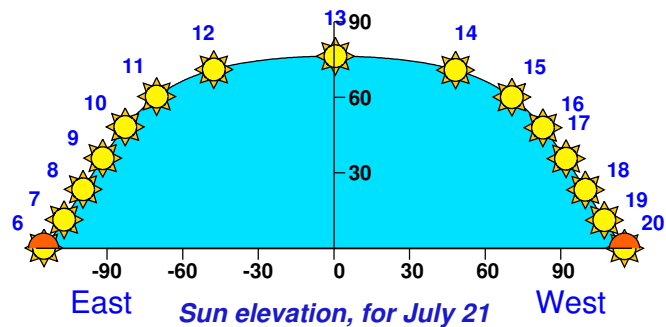
26 177 - 188
05:44 - 20:08 79°

27 178 - 187
05:44 - 20:08 79°

28 179 - 186
05:44 - 20:09 79°

29 180 - 185
05:45 - 20:09 79°

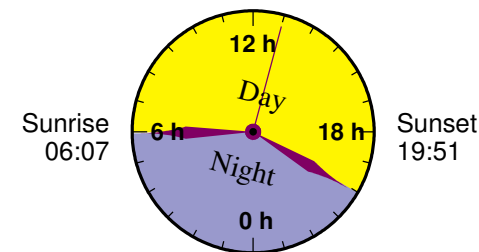
30 181 - 184
05:45 - 20:09 79°



July 2018

Los Angeles

-118.24°E, 34.05°N



Duration of the day, for July 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

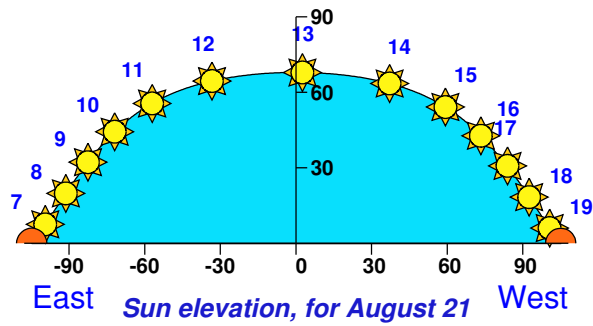
28

29

30

31

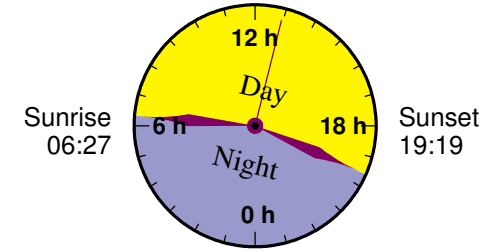
						1 182 - 183 05:45 - 20:09 79°
2 183 - 182 05:46 - 20:09 79° 	3 184 - 181 05:46 - 20:08 79° 	4 185 - 180 05:47 - 20:08 79° 	5 186 - 179 05:47 - 20:08 79° 	6 187 - 178 05:48 - 20:08 79° 	7 188 - 177 05:48 - 20:08 78° 	8 189 - 176 05:49 - 20:08 78°
9 190 - 175 05:49 - 20:07 78° 	10 191 - 174 05:50 - 20:07 78° 	11 192 - 173 05:51 - 20:07 78° 	12 193 - 172 05:51 - 20:07 78° 	13 194 - 171 05:52 - 20:06 78° 	14 195 - 170 05:52 - 20:06 78° 	15 196 - 169 05:53 - 20:05 77°
16 197 - 168 05:54 - 20:05 77° 	17 198 - 167 05:54 - 20:05 77° 	18 199 - 166 05:55 - 20:04 77° 	19 200 - 165 05:56 - 20:04 77° 	20 201 - 164 05:56 - 20:03 77° 	21 202 - 163 05:57 - 20:03 76° 	22 203 - 162 05:58 - 20:02 76°
23 204 - 161 05:58 - 20:01 76° 	24 205 - 160 05:59 - 20:01 76° 	25 206 - 159 06:00 - 20:00 75° 	26 207 - 158 06:00 - 19:59 75° 	27 208 - 157 06:01 - 19:59 75° 	28 209 - 156 06:02 - 19:58 75° 	29 210 - 155 06:02 - 19:57 75°
30 211 - 154 06:03 - 19:56 74° 	31 212 - 153 06:04 - 19:56 74° 					



August 2018

Los Angeles

-118.24°E, 34.05°N



Duration of the day, for August 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

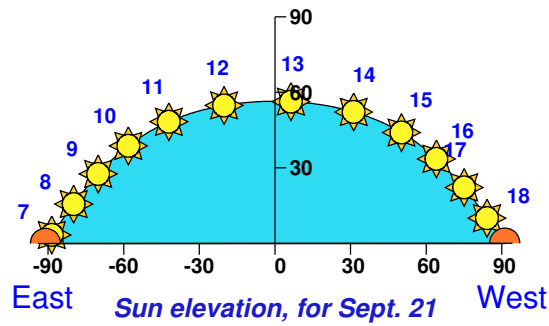
32

33

34

35

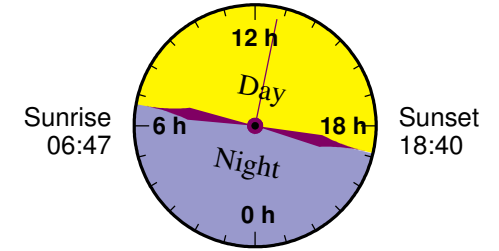
		1 213 - 152 06:05 - 19:55 74° 	2 214 - 151 06:05 - 19:54 74° 	3 215 - 150 06:06 - 19:53 73° 	4 216 - 149 06:07 - 19:52 73° 	5 217 - 148 06:07 - 19:51 73°
	6 218 - 147 06:08 - 19:50 72° 	7 219 - 146 06:09 - 19:49 72° 	8 220 - 145 06:10 - 19:48 72° 	9 221 - 144 06:10 - 19:47 72° 	10 222 - 143 06:11 - 19:46 71° 	11 223 - 142 06:12 - 19:45 71°
	13 225 - 140 06:13 - 19:43 70° 	14 226 - 139 06:14 - 19:42 70° 	15 227 - 138 06:15 - 19:41 70° 	16 228 - 137 06:15 - 19:40 70° 	17 229 - 136 06:16 - 19:39 69° 	18 230 - 135 06:17 - 19:38 69°
	20 232 - 133 06:18 - 19:35 68° 	21 233 - 132 06:19 - 19:34 68° 	22 234 - 131 06:20 - 19:33 68° 	23 235 - 130 06:20 - 19:32 67° 	24 236 - 129 06:21 - 19:30 67° 	25 237 - 128 06:22 - 19:29 67°
	27 239 - 126 06:23 - 19:27 66° 	28 240 - 125 06:24 - 19:25 65° 	29 241 - 124 06:25 - 19:24 65° 	30 242 - 123 06:25 - 19:23 65° 	31 243 - 122 06:26 - 19:21 64° 	



September 2018

Los Angeles

-118.24°E, 34.05°N



Duration of the day, for September 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

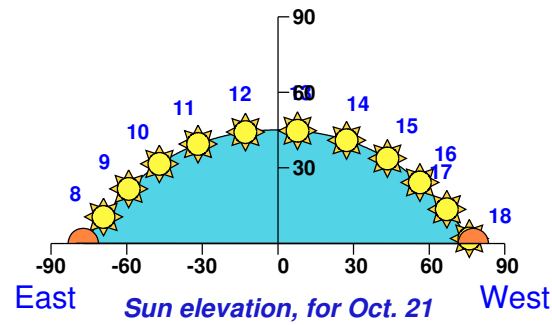
37

38

39

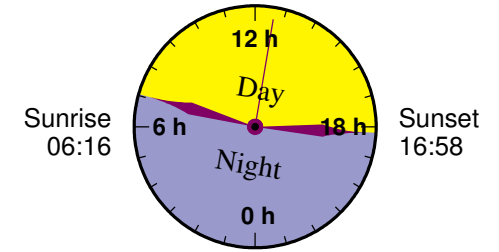
1 244 - 121 06:27 - 19:20 64° 	2 245 - 120 06:27 - 19:19 64°
3 246 - 119 06:28 - 19:17 63° 	4 247 - 118 06:29 - 19:16 63°
5 248 - 117 06:30 - 19:15 63° 	6 249 - 116 06:30 - 19:13 62°
7 250 - 115 06:31 - 19:12 62° 	8 251 - 114 06:32 - 19:11 61°
9 252 - 113 06:32 - 19:09 61° 	10 253 - 112 06:33 - 19:08 61°
11 254 - 111 06:34 - 19:06 60° 	12 255 - 110 06:34 - 19:05 60°
13 256 - 109 06:35 - 19:04 60° 	14 257 - 108 06:36 - 19:02 59°
15 258 - 107 06:36 - 19:01 59° 	16 259 - 106 06:37 - 19:00 58°
17 260 - 105 06:38 - 18:58 58° 	18 261 - 104 06:38 - 18:57 58°
19 262 - 103 06:39 - 18:55 57° 	20 263 - 102 06:40 - 18:54 57°
21 264 - 101 06:41 - 18:52 56° 	22 265 - 100 06:41 - 18:51 56°
23 266 - 99 06:42 - 18:50 56° 	24 267 - 98 06:43 - 18:48 55°
25 268 - 97 06:43 - 18:47 55° 	26 269 - 96 06:44 - 18:45 55°
27 270 - 95 06:45 - 18:44 54° 	28 271 - 94 06:46 - 18:43 54°
29 272 - 93 06:46 - 18:41 53° 	30 273 - 92 06:47 - 18:40 53°

October 2018



Los Angeles

-118.24°E, 34.05°N



Duration of the day, for October 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

1 274 - 91
06:48 - 18:39 53°

2 275 - 90
06:48 - 18:37 52°

3 276 - 89
06:49 - 18:36 52°

4 277 - 88
06:50 - 18:34 51°

5 278 - 87
06:51 - 18:33 51°

6 279 - 86
06:51 - 18:32 51°

7 280 - 85
06:52 - 18:30 50°

41

8 281 - 84
06:53 - 18:29 50°

9 282 - 83
06:54 - 18:28 49°

10 283 - 82
06:54 - 18:26 49°

11 284 - 81
06:55 - 18:25 49°

12 285 - 80
06:56 - 18:24 48°

13 286 - 79
06:57 - 18:23 48°

14 287 - 78
06:58 - 18:21 48°

42

15 288 - 77
06:58 - 18:20 47°

16 289 - 76
06:59 - 18:19 47°

17 290 - 75
07:00 - 18:18 47°

18 291 - 74
07:01 - 18:16 46°

19 292 - 73
07:02 - 18:15 46°

20 293 - 72
07:02 - 18:14 45°

21 294 - 71
07:03 - 18:13 45°

43

22 295 - 70
07:04 - 18:12 45°

23 296 - 69
07:05 - 18:11 44°

24 297 - 68
07:06 - 18:09 44°

25 298 - 67
07:07 - 18:08 44°

26 299 - 66
07:08 - 18:07 43°

27 300 - 65
07:08 - 18:06 43°

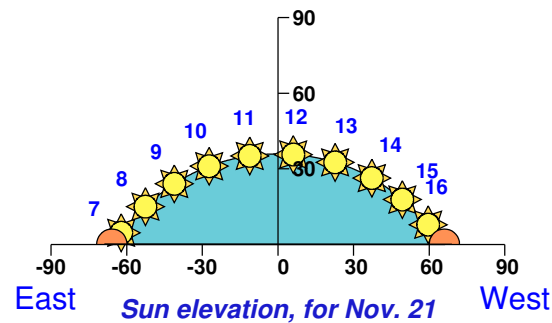
28 301 - 64
07:09 - 18:05 43°

44

29 302 - 63
07:10 - 18:04 42°

30 303 - 62
07:11 - 18:03 42°

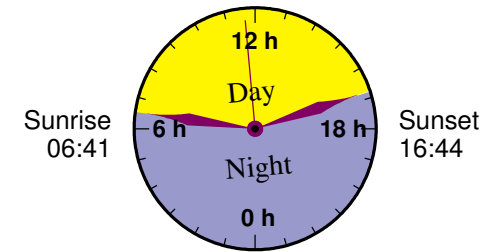
31 304 - 61
07:12 - 18:02 42°



November 2018

Los Angeles

-118.24°E, 34.05°N



Duration of the day, for November 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Time change November 4

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

1 305 - 60 07:13 - 18:01 41°	2 306 - 59 07:14 - 18:00 41°	3 307 - 58 07:15 - 17:59 41°	4 308 - 57 06:16 - 16:58 40°
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45

5 309 - 56 06:16 - 16:57 40°	6 310 - 55 06:17 - 16:57 40°	7 311 - 54 06:18 - 16:56 40°	8 312 - 53 06:19 - 16:55 39°	9 313 - 52 06:20 - 16:54 39°	10 314 - 51 06:21 - 16:53 39°	11 315 - 50 06:22 - 16:53 38°
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46

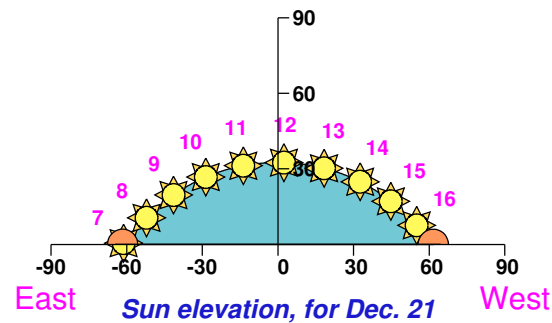
12 316 - 49 06:23 - 16:52 38°	13 317 - 48 06:24 - 16:51 38°	14 318 - 47 06:25 - 16:51 38°	15 319 - 46 06:26 - 16:50 37°	16 320 - 45 06:27 - 16:49 37°	17 321 - 44 06:28 - 16:49 37°	18 322 - 43 06:29 - 16:48 37°
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47

19 323 - 42 06:30 - 16:48 36°	20 324 - 41 06:31 - 16:47 36°	21 325 - 40 06:32 - 16:47 36°	22 326 - 39 06:32 - 16:46 36°	23 327 - 38 06:33 - 16:46 36°	24 328 - 37 06:34 - 16:46 35°	25 329 - 36 06:35 - 16:45 35°
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48

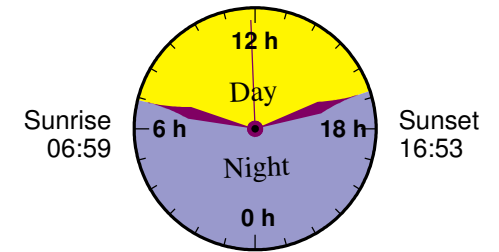
26 330 - 35 06:36 - 16:45 35°	27 331 - 34 06:37 - 16:45 35°	28 332 - 33 06:38 - 16:44 35°	29 333 - 32 06:39 - 16:44 34°	30 334 - 31 06:40 - 16:44 34°
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December 2018

Los Angeles

-118.24°E, 34.05°N



Duration of the day, for December 21

Sunrise and Sunset at Los Angeles (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 06:41 - 16:44 34° 	2 336 - 29 06:41 - 16:44 34°
3 337 - 28 06:42 - 16:44 34° 	4 338 - 27 06:43 - 16:44 34°
5 339 - 26 06:44 - 16:44 34° 	6 340 - 25 06:45 - 16:44 33°
7 341 - 24 06:46 - 16:44 33° 	8 342 - 23 06:46 - 16:44 33°
9 343 - 22 06:47 - 16:44 33° 	10 344 - 21 06:48 - 16:44 33°
11 345 - 20 06:49 - 16:44 33° 	12 346 - 19 06:49 - 16:44 33°
13 347 - 18 06:50 - 16:45 33° 	14 348 - 17 06:51 - 16:45 33°
15 349 - 16 06:51 - 16:45 33° 	16 350 - 15 06:52 - 16:45 33°
17 351 - 14 06:53 - 16:46 33° 	18 352 - 13 06:53 - 16:46 33°
19 353 - 12 06:54 - 16:46 33° 	20 354 - 11 06:54 - 16:47 33°
21 355 - 10 06:55 - 16:47 33° 	22 356 - 9 06:55 - 16:48 33°
23 357 - 8 06:56 - 16:48 33° 	24 358 - 7 06:56 - 16:49 33°
25 359 - 6 06:57 - 16:49 33° 	26 360 - 5 06:57 - 16:50 33°
27 361 - 4 06:57 - 16:51 33° 	28 362 - 3 06:58 - 16:51 33°
29 363 - 2 06:58 - 16:52 33° 	30 364 - 1 06:58 - 16:53 33°
31 365 - 0 06:59 - 16:53 33° 	