

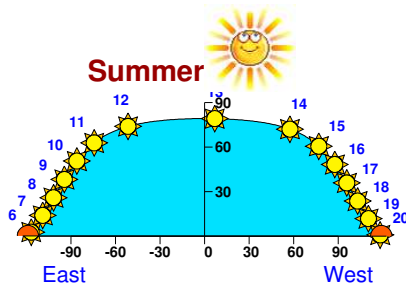
Sun Calendar 2018

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Pasadena

-118.14°E, 34.14°N

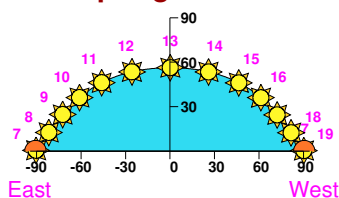
Summer



June 21

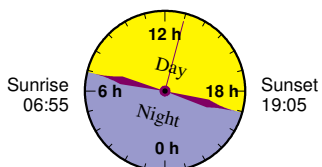


Spring



March 21

Day duration 12:10



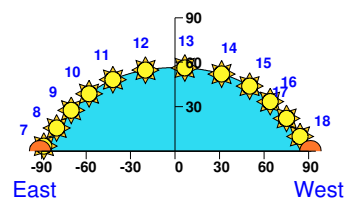
Spring Equinox

Day duration 14:26



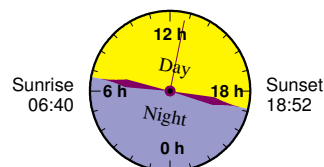
Summer Solstice

Autumn



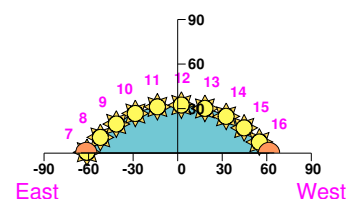
Sept. 21

Day duration 12:12



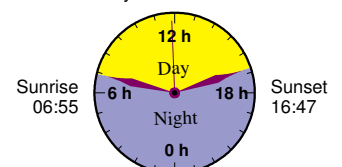
Autumn Equinox

Winter



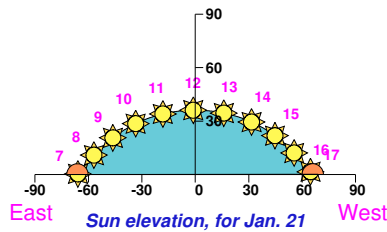
Dec. 21

Day duration 9:52

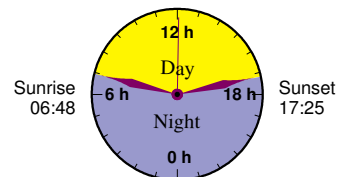


Winter Solstice

January 2018



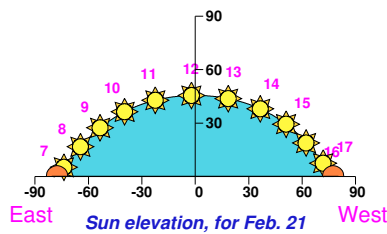
Pasadena
-118.14°E, 34.14°N



Duration of the day, for January 21

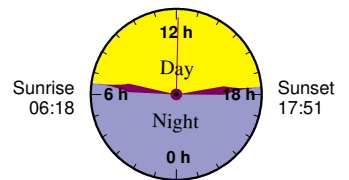
Sunrise and Sunset at Pasadena (TL $\pm$ 1 mn) and sun maximal elevation (°)

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



February 2018

Pasadena
-118.14°E, 34.14°N



Duration of the day, for February 21

Sunrise and Sunset at Pasadena (TL ± 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

6

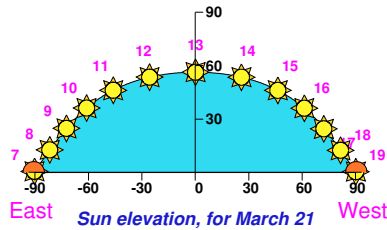
7

8

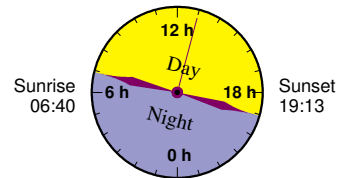
9

			1 32 - 333 06:50 - 17:22 39° 	2 33 - 332 06:49 - 17:23 39° 	3 34 - 331 06:48 - 17:24 40° 	4 35 - 330 06:48 - 17:25 40°
5 36 - 329 06:47 - 17:26 40° 	6 37 - 328 06:46 - 17:27 40° 	7 38 - 327 06:45 - 17:28 41° 	8 39 - 326 06:44 - 17:29 41° 	9 40 - 325 06:43 - 17:30 41° 	10 41 - 324 06:42 - 17:31 42° 	11 42 - 323 06:41 - 17:32 42°
12 43 - 322 06:40 - 17:33 42° 	13 44 - 321 06:39 - 17:34 43° 	14 45 - 320 06:38 - 17:35 43° 	15 46 - 319 06:37 - 17:36 43° 	16 47 - 318 06:36 - 17:37 44° 	17 48 - 317 06:35 - 17:38 44° 	18 49 - 316 06:34 - 17:39 44°
19 50 - 315 06:33 - 17:39 45° 	20 51 - 314 06:32 - 17:40 45° 	21 52 - 313 06:31 - 17:41 46° 	22 53 - 312 06:30 - 17:42 46° 	23 54 - 311 06:29 - 17:43 46° 	24 55 - 310 06:27 - 17:44 47° 	25 56 - 309 06:26 - 17:45 47°
26 57 - 308 06:25 - 17:46 47° 	27 58 - 307 06:24 - 17:47 48° 	28 59 - 306 06:23 - 17:47 48° 				

March 2018



Pasadena
-118.14°E, 34.14°N



Duration of the day, for March 21

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

Time change March 11

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 60 - 305
06:21 - 17:48 49°

2 61 - 304
06:20 - 17:49 49°

3 62 - 303
06:19 - 17:50 49°

4 63 - 302
06:18 - 17:51 50°

5 64 - 301
06:16 - 17:52 50°

6 65 - 300
06:15 - 17:53 50°

7 66 - 299
06:14 - 17:53 51°

8 67 - 298
06:12 - 17:54 51°

9 68 - 297
06:11 - 17:55 52°

10 69 - 296
06:10 - 17:56 52°

11 70 - 295
07:08 - 18:57 52°

12 71 - 294
07:07 - 18:57 53°

13 72 - 293
07:06 - 18:58 53°

14 73 - 292
07:04 - 18:59 54°

15 74 - 291
07:03 - 19:00 54°

16 75 - 290
07:02 - 19:01 54°

17 76 - 289
07:00 - 19:01 55°

18 77 - 288
06:59 - 19:02 55°

19 78 - 287
06:58 - 19:03 56°

20 79 - 286
06:56 - 19:04 56°

21 80 - 285
06:55 - 19:05 56°

22 81 - 284
06:54 - 19:05 57°

23 82 - 283
06:52 - 19:06 57°

24 83 - 282
06:51 - 19:07 58°

25 84 - 281
06:49 - 19:08 58°

26 85 - 280
06:48 - 19:08 58°

27 86 - 279
06:47 - 19:09 59°

28 87 - 278
06:45 - 19:10 59°

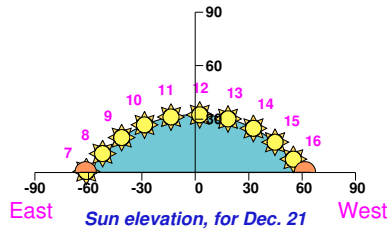
29 88 - 277
06:44 - 19:11 59°

30 89 - 276
06:43 - 19:11 60°

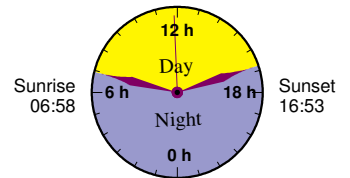
31 90 - 275
06:41 - 19:12 60°

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December 2018



Pasadena
-118.14°E, 34.14°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 335 - 30
06:40 - 16:43 34°

2 336 - 29
06:41 - 16:43 34°

3 337 - 28
06:42 - 16:43 34°

4 338 - 27
06:43 - 16:43 34°

5 339 - 26
06:44 - 16:43 33°

6 340 - 25
06:45 - 16:43 33°

7 341 - 24
06:45 - 16:43 33°

8 342 - 23
06:46 - 16:43 33°

9 343 - 22
06:47 - 16:43 33°

10 344 - 21
06:48 - 16:43 33°

11 345 - 20
06:48 - 16:43 33°

12 346 - 19
06:49 - 16:44 33°

13 347 - 18
06:50 - 16:44 33°

14 348 - 17
06:51 - 16:44 33°

15 349 - 16
06:51 - 16:44 33°

16 350 - 15
06:52 - 16:45 33°

17 351 - 14
06:52 - 16:45 33°

18 352 - 13
06:53 - 16:45 32°

19 353 - 12
06:54 - 16:46 32°

20 354 - 11
06:54 - 16:46 32°

21 355 - 10
06:55 - 16:47 32°

22 356 - 9
06:55 - 16:47 32°

23 357 - 8
06:56 - 16:48 32°

24 358 - 7
06:56 - 16:48 32°

25 359 - 6
06:56 - 16:49 33°

26 360 - 5
06:57 - 16:49 33°

27 361 - 4
06:57 - 16:50 33°

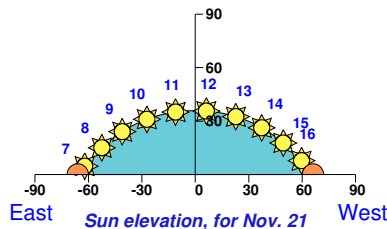
28 362 - 3
06:58 - 16:51 33°

29 363 - 2
06:58 - 16:51 33°

30 364 - 1
06:58 - 16:52 33°

31 365 - 0
06:58 - 16:53 33°

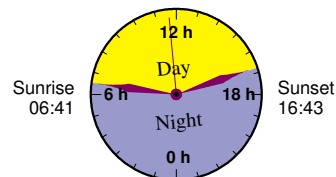
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November 2018

Pasadena

-118.14°E, 34.14°N



Duration of the day, for November 21

Sunrise and Sunset at Pasadena (TL ± 1 mn) and sun maximal elevation (°)

Time change November 4

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 305 - 60
07:13 - 18:01 41°

2 306 - 59
07:13 - 18:00 41°

3 307 - 58
07:14 - 17:59 41°

4 308 - 57
06:15 - 16:58 40°

5 309 - 56
06:16 - 16:57 40°

6 310 - 55
06:17 - 16:56 40°

7 311 - 54
06:18 - 16:55 39°

8 312 - 53
06:19 - 16:54 39°

9 313 - 52
06:20 - 16:54 39°

10 314 - 51
06:21 - 16:53 39°

11 315 - 50
06:22 - 16:52 38°

12 316 - 49
06:23 - 16:51 38°

13 317 - 48
06:24 - 16:51 38°

14 318 - 47
06:25 - 16:50 38°

15 319 - 46
06:26 - 16:49 37°

16 320 - 45
06:27 - 16:49 37°

17 321 - 44
06:28 - 16:48 37°

18 322 - 43
06:28 - 16:48 37°

19 323 - 42
06:29 - 16:47 36°

20 324 - 41
06:30 - 16:47 36°

21 325 - 40
06:31 - 16:46 36°

22 326 - 39
06:32 - 16:46 36°

23 327 - 38
06:33 - 16:45 35°

24 328 - 37
06:34 - 16:45 35°

25 329 - 36
06:35 - 16:45 35°

26 330 - 35
06:36 - 16:44 35°

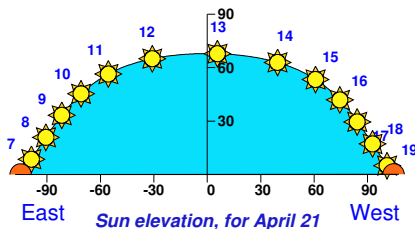
27 331 - 34
06:37 - 16:44 35°

28 332 - 33
06:38 - 16:44 34°

29 333 - 32
06:39 - 16:44 34°

30 334 - 31
06:40 - 16:43 34°

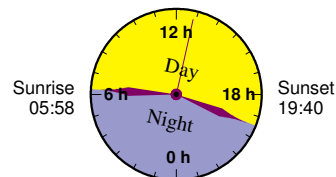
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April 2018

Pasadena

-118.14°E, 34.14°N



Duration of the day, for April 21

Sunrise and Sunset at Pasadena (TL ± 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 91 - 274
06:40 - 19:13 61°

2 92 - 273
06:39 - 19:14 61°

3 93 - 272
06:37 - 19:14 61°

4 94 - 271
06:36 - 19:15 62°

5 95 - 270
06:34 - 19:16 62°

6 96 - 269
06:33 - 19:17 63°

7 97 - 268
06:32 - 19:18 63°

8 98 - 267
06:31 - 19:18 63°

9 99 - 266
06:29 - 19:19 64°

10 100 - 265
06:28 - 19:20 64°

11 101 - 264
06:27 - 19:21 64°

12 102 - 263
06:25 - 19:21 65°

13 103 - 262
06:24 - 19:22 65°

14 104 - 261
06:23 - 19:23 65°

15 105 - 260
06:22 - 19:24 66°

16 106 - 259
06:20 - 19:24 66°

17 107 - 258
06:19 - 19:25 67°

18 108 - 257
06:18 - 19:26 67°

19 109 - 256
06:17 - 19:27 67°

20 110 - 255
06:15 - 19:27 68°

21 111 - 254
06:14 - 19:28 68°

22 112 - 253
06:13 - 19:29 68°

23 113 - 252
06:12 - 19:30 69°

24 114 - 251
06:11 - 19:31 69°

25 115 - 250
06:10 - 19:31 69°

26 116 - 249
06:09 - 19:32 70°

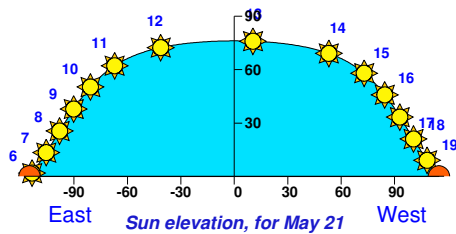
27 117 - 248
06:07 - 19:33 70°

28 118 - 247
06:06 - 19:34 70°

29 119 - 246
06:05 - 19:35 71°

30 120 - 245
06:04 - 19:35 71°

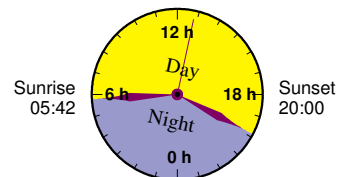
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May 2018

Pasadena

-118.14°E, 34.14°N



Duration of the day, for May 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

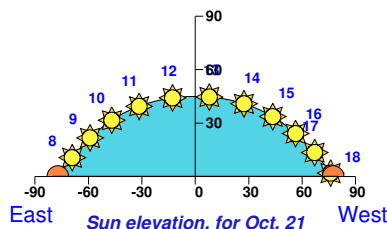
19

20

21

22

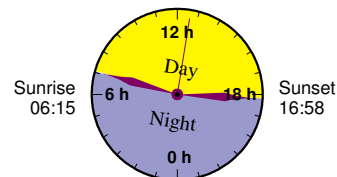
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October 2018

Pasadena

-118.14°E, 34.14°N



Duration of the day, for October 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

41

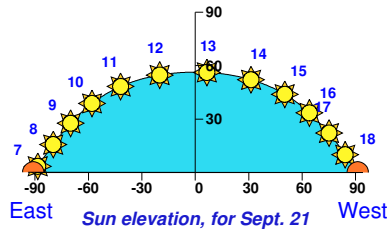
42

43

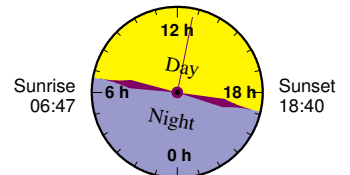
44

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September 2018



Pasadena
-118.14°E, 34.14°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

37

38

39

1	244 - 121 06:26 - 19:20 64°
2	245 - 120 06:27 - 19:18 64°

3	246 - 119 06:28 - 19:17 63°
4	247 - 118 06:28 - 19:16 63°

5	248 - 117 06:29 - 19:14 62°
6	249 - 116 06:30 - 19:13 62°

7	250 - 115 06:30 - 19:12 62°
8	251 - 114 06:31 - 19:10 61°

9	252 - 113 06:32 - 19:09 61°
10	253 - 112 06:33 - 19:08 61°

11	254 - 111 06:33 - 19:06 60°
12	255 - 110 06:34 - 19:05 60°

13	256 - 109 06:35 - 19:03 59°
14	257 - 108 06:35 - 19:02 59°

15	258 - 107 06:36 - 19:01 59°
16	259 - 106 06:37 - 18:59 58°

17	260 - 105 06:37 - 18:58 58°
18	261 - 104 06:38 - 18:56 58°

19	262 - 103 06:39 - 18:55 57°
20	263 - 102 06:39 - 18:54 57°

21	264 - 101 06:40 - 18:52 56°
22	265 - 100 06:41 - 18:51 56°

23	266 - 99 06:42 - 18:49 56°
24	267 - 98 06:42 - 18:48 55°

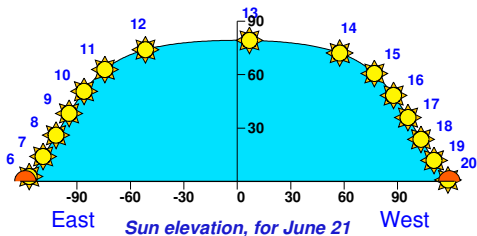
25	268 - 97 06:43 - 18:46 55°
26	269 - 96 06:44 - 18:45 54°

27	270 - 95 06:44 - 18:44 54°
28	271 - 94 06:45 - 18:42 54°

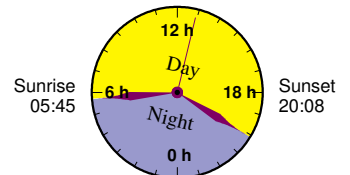
29	272 - 93 06:46 - 18:41 53°
30	273 - 92 06:47 - 18:40 53°

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June 2018



Pasadena
-118.14°E, 34.14°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

24

25

26

1	152 - 213 05:42 - 19:59 78°
2	153 - 212 05:42 - 19:59 78°

3	154 - 211 05:42 - 20:00 78°
4	155 - 210 05:41 - 20:01 78°

5	156 - 209 05:41 - 20:01 78°
6	157 - 208 05:41 - 20:02 79°

7	158 - 207 05:41 - 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°

11	162 - 203 05:41 - 20:04 79°
12	163 - 202 05:41 - 20:04 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°
18	169 - 196 05:41 - 20:07 79°

19	170 - 195 05:41 - 20:07 79°
20	171 - 194 05:41 - 20:07 79°

21	172 - 193 05:42 - 20:07 79°
22	173 - 192 05:42 - 20:08 79°

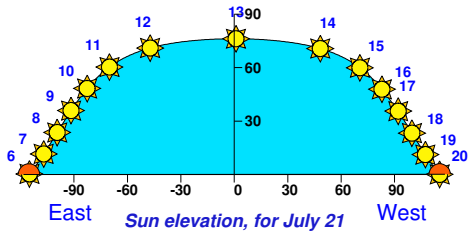
23	174 - 191 05:42 - 20:08 79°
24	175 - 190 05:42 - 20:08 79°

25	176 - 189 05:43 - 20:08 79°
26	177 - 188 05:43 - 20:08 79°

27	178 - 187 05:43 - 20:08 79°
28	179 - 186 05:44 - 20:08 79°

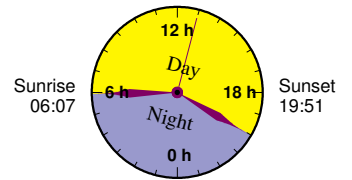
29	180 - 185 05:44 - 20:08 79°
30	181 - 184 05:44 - 20:08 79°

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July 2018

Pasadena
-118.14°E, 34.14°N



Duration of the day, for July 21

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

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

26

27

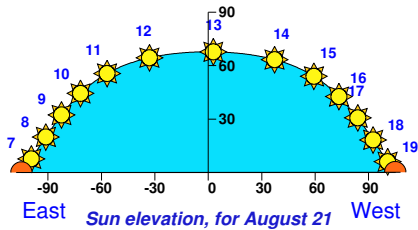
28

29

30

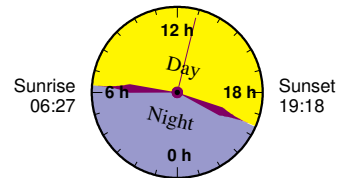
31

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



August 2018

Pasadena
-118.14°E, 34.14°N



Duration of the day, for August 21

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

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

31

32

33

34

35

		1 213 - 152 06:04 - 19:55 74°	2 214 - 151 06:05 - 19:54 73°	3 215 - 150 06:05 - 19:53 73°	4 216 - 149 06:06 - 19:52 73°	5 217 - 148 06:07 - 19:51 73°
6 218 - 147 06:08 - 19:50 72°	7 219 - 146 06:08 - 19:49 72°	8 220 - 145 06:09 - 19:48 72°	9 221 - 144 06:10 - 19:47 72°	10 222 - 143 06:11 - 19:46 71°	11 223 - 142 06:11 - 19:45 71°	12 224 - 141 06:12 - 19:44 71°
13 225 - 140 06:13 - 19:43 70°	14 226 - 139 06:13 - 19:42 70°	15 227 - 138 06:14 - 19:41 70°	16 228 - 137 06:15 - 19:40 69°	17 229 - 136 06:16 - 19:38 69°	18 230 - 135 06:16 - 19:37 69°	19 231 - 134 06:17 - 19:36 68°
20 232 - 133 06:18 - 19:35 68°	21 233 - 132 06:19 - 19:34 68°	22 234 - 131 06:19 - 19:33 67°	23 235 - 130 06:20 - 19:31 67°	24 236 - 129 06:21 - 19:30 67°	25 237 - 128 06:21 - 19:29 66°	26 238 - 127 06:22 - 19:28 66°
27 239 - 126 06:23 - 19:26 66°	28 240 - 125 06:23 - 19:25 65°	29 241 - 124 06:24 - 19:24 65°	30 242 - 123 06:25 - 19:22 65°	31 243 - 122 06:26 - 19:21 64°		