



# NOVEMBER 2016 LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

KNOXVILLE, TN

MC GHEE TYSON AIRPORT (KTYS)

Lat:35° 49'N Long: 83° 59'W Elev (Ground) 962 Feet

Time Zone : EASTERN

WBAN: 13891 ISSN#: 0198-4810



| Date<br>1 | Temperature °F |              |              |                         |                        |                          | Deg Days<br>BASE 65° |              | WEATHER<br>10      | SNOW/ICE<br>ON GND(IN) |             | PRECIPITATION<br>ON GND(IN) |             | PRESSURE<br>(INCHES OF HG) |                            | WIND SPEED = MPH<br>DIR = TENS OF DEGREES |               |                        |         |    |       |    |    | Date<br>24 |
|-----------|----------------|--------------|--------------|-------------------------|------------------------|--------------------------|----------------------|--------------|--------------------|------------------------|-------------|-----------------------------|-------------|----------------------------|----------------------------|---|---------------|------------------------|---------|----|-------|----|----|------------|
|           | MAXIMUM<br>2   | MINIMUM<br>3 | AVERAGE<br>4 | DEP FROM<br>NORMAL<br>5 | AVERAGE<br>DEW PT<br>6 | AVERAGE<br>WET BULB<br>7 | HEATING<br>8         | COOLING<br>9 |                    | 0700<br>LST            | 1300<br>LST | 2400<br>LST                 | 2400<br>LST | AVERAGE<br>STATION<br>15   | AVERAGE<br>SEA LEVEL<br>16 | RESULTANT<br>SPEED<br>17                  | RES DIR<br>18 | AVERAGE<br>SPEED<br>19 | MAXIMUM |    |       |    |    |            |
|           |                |              |              |                         |                        |                          |                      |              |                    |                        |             |                             |             |                            |                            |   |               |                        | 3-SEC   |    | 2-MIN |    |    |            |
| 11        | 12             | 13           | 14           | 15                      | 16                     | 17                       | 18                   | 19           | 20                 | 21                     | 22          | 23                          | 24          |                            |                            |   |               |                        |         |    |       |    |    |            |
| 01        | 85*            | 56           | 71*          | 18                      | 52                     | 60                       | 0                    | 6            |                    | 0                      |             | 0.0                         | 0.00        | 29.11                      | 30.16                      | 4.3                                       | 23            | 4.8                    | 27      | 24 | 22    | 24 | 01 |            |
| 02        | 82             | 56           | 69           | 16                      | 53                     | 59                       | 0                    | 4            |                    | 0                      |             | 0.0                         | 0.00        | 29.23                      | 30.27                      | 0.3                                       | 32            | 1.8                    | 12      | 33 | 9     | 33 | 02 |            |
| 03        | 80             | 57           | 69           | 16                      | 55                     | 61                       | 0                    | 4            | RA                 | 0                      |             | 0.0                         | T           | 29.15                      | 30.16                      | 4.6                                       | 24            | 5.2                    | 20      | 26 | 16    | 25 | 03 |            |
| 04        | 74             | 54           | 64           | 12                      | 44                     | 54                       | 1                    | 0            |                    | 0                      |             | 0.0                         | 0.00        | 29.15                      | 30.20                      | 8.8                                       | 02            | 9.4                    | 22      | 04 | 17    | 04 | 04 |            |
| 05        | 70             | 47           | 59           | 7                       | 38                     | 48                       | 6                    | 0            |                    | 0                      |             | 0.0                         | 0.00        | 29.25                      | 30.30                      | 3.4                                       | 02            | 4.2                    | 14      | 03 | 12    | 02 | 05 |            |
| 06        | 71             | 42           | 57           | 5                       | 36                     | 46                       | 8                    | 0            |                    | 0                      |             | 0.0                         | 0.00        | 29.25                      | 30.30                      | 2.1                                       | 05            | 2.4                    | 14      | 08 | 12    | 03 | 06 |            |
| 07        | 71             | 40           | 56           | 5                       | 36                     | 46                       | 9                    | 0            | HZ FU              | 0                      |             | 0.0                         | 0.00        | 29.28                      | 30.33                      | 0.5                                       | 02            | 1.0                    | 9       | 25 | 7     | 25 | 07 |            |
| 08        | 65             | 43           | 54           | 3                       | 39                     | 46                       | 11                   | 0            | RA HZ FU           | 0                      |             | 0.0                         | T           | 29.21                      | 30.25                      | 0.9                                       | 18            | 2.2                    | 16      | 26 | 13    | 26 | 08 |            |
| 09        | 61             | 47           | 54           | 3                       | 39                     | 48                       | 11                   | 0            | HZ FU              | 0                      |             | 0.0                         | 0.00        | 29.10                      | 30.16                      | 7.0                                       | 35            | 7.4                    | 23      | 01 | 15    | 01 | 09 |            |
| 10        | 66             | 35           | 51           | 0                       | 31                     | 42                       | 14                   | 0            |                    | 0                      |             | 0.0                         | 0.00        | 29.17                      | 30.22                      | 2.4                                       | 05            | 4.3                    | 20      | 05 | 16    | 03 | 10 |            |
| 11        | 65             | 34           | 50           | 0                       | 34                     | 43                       | 15                   | 0            | HZ FU              | 0                      |             | 0.0                         | 0.00        | 29.05                      | 30.10                      | 1.8                                       | 36            | 4.5                    | 13      | 27 | 10    | 01 | 11 |            |
| 12        | 60             | 43           | 52           | 2                       | 34                     | 43                       | 13                   | 0            | HZ                 | 0                      |             | 0.0                         | 0.00        | 29.18                      | 30.25                      | 6.3                                       | 04            | 6.7                    | 18      | 04 | 15    | 03 | 12 |            |
| 13        | 63             | 34           | 49           | -1                      | 34                     | 41                       | 16                   | 0            | BR HZ              | 0                      |             | 0.0                         | 0.00        | 29.17                      | 30.22                      | 0.7                                       | 33            | 2.2                    | 12      | 35 | 9     | 35 | 13 |            |
| 14        | 64             | 35           | 50           | 1                       | 35                     | 42                       | 15                   | 0            | BR HZ FU           | 0                      |             | 0.0                         | 0.00        | 29.02                      | 30.06                      | 0.3                                       | 25            | 1.8                    | 12      | 24 | 9     | 24 | 14 |            |
| 15        | 63             | 35           | 49           | 0                       | 35                     | 43                       | 16                   | 0            | RA BR HZ FU        | 0                      |             | 0.0                         | T           | 28.92                      | 29.97                      | 1.0                                       | 26            | 1.5                    | 10      | 19 | 8     | 29 | 15 |            |
| 16        | 69             | 39           | 54           | 5                       | 37                     | 45                       | 11                   | 0            | HZ FU              | 0                      |             | 0.0                         | 0.00        | 28.93                      | 29.98                      | 1.9                                       | 20            | 2.3                    | 13      | 28 | 10    | 24 | 16 |            |
| 17        | 75             | 38           | 57           | 8                       | 38                     | 47                       | 8                    | 0            | HZ FU              | 0                      |             | 0.0                         | 0.00        | 29.03                      | 30.09                      | 0.4                                       | 04            | 0.8                    |         | 5  | 07    | 17 |    |            |
| 18        | 78             | 39           | 59           | 11                      | 39                     | 48                       | 6                    | 0            | BR HZ FU           | 0                      |             | 0.0                         | 0.00        | 29.10                      | 30.13                      | 2.5                                       | 24            | 3.0                    | 18      | 27 | 15    | 26 | 18 |            |
| 19        | 64             | 39           | 52           | 4                       | 30                     | 41                       | 13                   | 0            | RA BR              | 0                      |             | 0.0                         | 0.16        | 29.10                      | 30.17                      | 11.2                                      | 27            | 11.9                   | 39      | 28 | 32    | 28 | 19 |            |
| 20        | 47             | 28           | 38           | -10                     | 19                     | 31                       | 27                   | 0            | RA                 | 0                      |             | 0.0                         | T           | 29.20                      | 30.26                      | 2.1                                       | 27            | 3.9                    | 15      | 25 | 12    | 24 | 20 |            |
| 21        | 51             | 25           | 38*          | -10                     | 17                     | 30                       | 27                   | 0            | HZ                 | 0                      |             | 0.0                         | 0.00        | 29.16                      | 30.23                      | 2.2                                       | 02            | 2.9                    | 13      | 01 | 9     | 01 | 21 |            |
| 22        | 56             | 30           | 43           | -5                      | 21                     | 35                       | 22                   | 0            | HZ FU              | 0                      |             | 0.0                         | 0.00        | 29.20                      | 30.26                      | 3.4                                       | 03            | 4.2                    | 18      | 04 | 15    | 04 | 22 |            |
| 23        | 67             | 39           | 53           | 6                       | 30                     | 43                       | 12                   | 0            | RA HZ FU           | 0                      |             | 0.0                         | 0.01        | 29.13                      | 30.18                      | 1.3                                       | 22            | 4.7                    | 26      | 22 | 22    | 22 | 23 |            |
| 24        | 68             | 49           | 59           | 13                      | 49                     | 52                       | 6                    | 0            | RA BR HZ           | 0                      |             | 0.0                         | 0.10        | 29.12                      | 30.17                      | 0.9                                       | 25            | 2.1                    | 14      | 28 | 12    | 24 | 24 |            |
| 25        | 58             | 45           | 52           | 6                       |                        |                          | 13                   | 0            | BR HZ              | 0                      |             | 0.0                         | 0.00        | 29.17                      |                            | 1.4                                       | 25            | 4.6                    | 18      | 01 | 15    | 01 | 25 |            |
| 26        | 50             | 31           | 41           | -5                      | 30                     | 37                       | 24                   | 0            |                    | 0                      |             | 0.0                         | 0.00        | 29.27                      | 30.33                      | 6.2                                       | 02            | 6.4                    | 20      | 06 | 16    | 05 | 26 |            |
| 27        | 53             | 25*          | 39           | -7                      | 28                     | 35                       | 26                   | 0            | BR                 | 0                      |             | 0.0                         | 0.00        | 29.15                      | 30.20                      | 0.9                                       | 04            | 1.0                    | 9       | 34 | 6     | 29 | 27 |            |
| 28        | 68             | 38           | 53           | 8                       | 38                     | 46                       | 12                   | 0            | RA                 | 0                      |             | 0.0                         | 0.06        | 28.86                      | 29.86                      | 9.7                                       | 18            | 11.7                   | 49      | 18 | 38    | 19 | 28 |            |
| 29        | 74             | 52           | 63           | 18                      | 51                     | 55                       | 2                    | 0            | RA BR              | 0                      |             | 0.0                         | 0.58        | 28.71                      | 29.76                      | 3.7                                       | 24            | 6.8                    | 34      | 19 | 25    | 20 | 29 |            |
| 30        | 69             | 45           | 57           | 12                      | 54                     | 57                       | 8                    | 0            | TS TSRA RA BR VCTS | 0                      |             | 0.0                         | 4.87        | 28.69                      | 29.72                      | 8.2                                       | 22            | 11.2                   | 52*     | 27 | 40*   | 25 | 30 |            |

|      |      |      |   |                                   |      |      |     |                               |  |  |  |      |  |       |       |     |    |     |                    |  |  |  |
|------|------|------|---|-----------------------------------|------|------|-----|-------------------------------|--|--|--|------|--|-------|-------|-----|----|-----|--------------------|--|--|--|
| 66.2 | 40.7 | 53.5 | ☼ | 37.1                              | 45.7 | 11.7 | 0.5 | < MONTHLY AVERAGES   TOTALS > |  |  |  | 0.0  | 5.78   | 29.10 | 30.15 | 0.8 | 30 | 4.6 | < MONTHLY AVERAGES |  |  |  |
| 5.8  | 1.7  | 3.8  |   | -----DEPARTURE FROM NORMAL -----> |      |      |     |                               |  |  |  | 1.77 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 |       |       |     |    |     |                    |  |  |  |

|                                    |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| <b>DEGREE DAYS</b>                 |  |  |  | <b>GREATEST 24-HR PRECIPITATION :</b> 4.88 <b>DATE :</b> 29-30 |  |  |  | <b>SEA LEVEL PRESSURE</b>                      |  |  |  |
| <b>MONTHLY</b>                     |  |  |  | <b>GREATEST 24-HR SNOWFALL :</b> 0.0 <b>DATE :</b>             |  |  |  | <b>MAXIMUM :</b> 30.40 <b>DATE</b> <b>TIME</b> |  |  |  |
| <b>TOTAL DEPARTURE</b>             |  |  |  | <b>GREATEST SNOW DEPTH :</b> 0 <b>DATE :</b>                   |  |  |  | <b>MINIMUM :</b> 29.59 <b>DATE</b> <b>TIME</b> |  |  |  |
| <b>SEASON TO DATE</b>              |  |  |  | <b>NUMBER OF -&gt; DAYS WITH</b>                               |  |  |  | <b>PRECIPITATION &gt;= 0.01 INCH:</b> 6        |  |  |  |
| <b>HEATING :</b> 352 -110 404 -277 |  |  |  | <b>MAXIMUM TEMP &gt;= 90 :</b> 0                               |  |  |  | <b>MINIMUM TEMP &lt;= 32 :</b> 5               |  |  |  |
| <b>COOLING :</b> 14 111 2120 594   |  |  |  | <b>MAXIMUM TEMP &lt;= 32 :</b> 0                               |  |  |  | <b>MINIMUM TEMP &lt;= 0 :</b> 0                |  |  |  |
|                                    |  |  |  | <b>THUNDERSTORMS :</b> 1                                       |  |  |  | <b>HEAVY FOG :</b> 0                           |  |  |  |
|                                    |  |  |  |  |  |  |  | <b>PRECIPITATION &gt;= 0.10 INCH:</b> 4        |  |  |  |
|                                    |  |  |  |  |  |  |  | <b>SNOWFALL &gt;= 1.0 INCH :</b> 0             |  |  |  |

NOVEMBER 2016  
KNOXVILLE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)  
NOVEMBER 2016

WBAN # 13891

| Date | FOR HOUR (LST) ENDING AT |      |      |      |      |      |      |      |      |      |      |      | Date | FOR HOUR (LST) ENDING AT |      |      |    |      |      |    |    |    |    |    |      | Date | Sum of Hourly Data | 2400 LST Water Equiv. |
|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|------|------|----|------|------|----|----|----|----|----|------|------|--------------------|-----------------------|
|      | 1                        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |      | 13                       | 14   | 15   | 16 | 17   | 18   | 19 | 20 | 21 | 22 | 23 | 24   |      |                    |                       |
| 01   |                          |      |      |      |      |      |      |      |      |      |      |      | 01   |                          |      |      |    |      |      |    |    |    |    |    | 01   | 0.00 | 0.00               |                       |
| 02   |                          |      |      |      |      |      |      |      |      |      |      |      | 02   |                          |      |      |    |      |      |    |    |    |    |    | 02   | 0.00 | 0.00               |                       |
| 03   |                          |      |      |      |      |      |      |      |      |      |      |      | 03   |                          |      |      |    |      |      | T  | T  |    |    |    | 03   | T    | T                  |                       |
| 04   |                          |      |      |      |      |      |      |      |      |      |      |      | 04   |                          |      |      |    |      |      |    |    |    |    |    | 04   | 0.00 | 0.00               |                       |
| 05   |                          |      |      |      |      |      |      |      |      |      |      |      | 05   |                          |      |      |    |      |      |    |    |    |    |    | 05   | 0.00 | 0.00               |                       |
| 06   |                          |      |      |      |      |      |      |      |      |      |      |      | 06   |                          |      |      |    |      |      |    |    |    |    |    | 06   | 0.00 | 0.00               |                       |
| 07   |                          |      |      |      |      |      |      |      |      |      |      |      | 07   |                          |      |      |    |      |      |    |    |    |    |    | 07   | 0.00 | 0.00               |                       |
| 08   |                          |      |      |      |      |      |      |      |      |      |      |      | 08   |                          |      |      |    |      |      |    |    |    |    | T  | 08   | T    | T                  |                       |
| 09   |                          |      |      |      |      |      |      |      |      |      |      |      | 09   |                          |      |      |    |      |      |    |    |    |    |    | 09   | 0.00 | 0.00               |                       |
| 10   |                          |      |      |      |      |      |      |      |      |      |      |      | 10   |                          |      |      |    |      |      |    |    |    |    |    | 10   | 0.00 | 0.00               |                       |
| 11   |                          |      |      |      |      |      |      |      |      |      |      |      | 11   |                          |      |      |    |      |      |    |    |    |    |    | 11   | 0.00 | 0.00               |                       |
| 12   |                          |      |      |      |      |      |      |      |      |      |      |      | 12   |                          |      |      |    |      |      |    |    |    |    |    | 12   | 0.00 | 0.00               |                       |
| 13   |                          |      |      |      |      |      |      |      |      |      |      |      | 13   |                          |      |      |    |      |      |    |    |    |    |    | 13   | 0.00 | 0.00               |                       |
| 14   |                          |      |      |      |      |      |      |      |      |      |      |      | 14   |                          |      |      |    |      |      |    |    |    |    |    | 14   | 0.00 | 0.00               |                       |
| 15   |                          |      |      |      |      |      |      |      |      |      |      |      | 15   |                          |      |      |    |      | T    |    |    |    |    |    | 15   | T    | T                  |                       |
| 16   |                          |      |      |      |      |      |      |      |      |      |      |      | 16   |                          |      |      |    |      |      |    |    |    |    |    | 16   | 0.00 | 0.00               |                       |
| 17   |                          |      |      |      |      |      |      |      |      |      |      |      | 17   |                          |      |      |    |      |      |    |    |    |    |    | 17   | 0.00 | 0.00               |                       |
| 18   |                          |      |      |      |      |      |      |      |      |      |      |      | 18   |                          |      |      |    |      |      |    |    |    |    |    | 18   | 0.00 | 0.00               |                       |
| 19   |                          |      |      |      |      | 0.07 | 0.09 | T    |      |      |      |      | 19   |                          |      |      |    |      |      |    |    |    |    |    | 19   | 0.16 | 0.16               |                       |
| 20   |                          |      |      |      |      |      |      |      |      |      |      |      | 20   |                          |      |      |    |      |      |    |    |    |    |    | 20   | T    | T                  |                       |
| 21   |                          |      |      |      |      |      |      |      |      |      |      |      | 21   |                          |      |      |    |      |      |    |    |    |    |    | 21   | 0.00 | 0.00               |                       |
| 22   |                          |      |      |      |      |      |      |      |      |      |      |      | 22   |                          |      |      |    |      |      |    |    |    |    |    | 22   | 0.00 | 0.00               |                       |
| 23   |                          |      |      |      |      |      |      |      |      |      |      |      | 23   |                          |      |      |    |      |      |    |    |    |    |    | 23   | 0.01 | 0.01               |                       |
| 24   | 0.04                     | 0.04 | 0.02 | T    |      |      |      |      |      |      |      |      | 24   |                          |      |      |    |      |      |    |    |    |    |    | 24   | 0.10 | 0.10               |                       |
| 25   |                          |      |      |      |      |      |      |      |      |      |      |      | 25   |                          |      |      |    |      |      |    |    |    |    |    | 25   | 0.00 | 0.00               |                       |
| 26   |                          |      |      |      |      |      |      |      |      |      |      |      | 26   |                          |      |      |    |      |      |    |    |    |    |    | 26   | 0.00 | 0.00               |                       |
| 27   |                          |      |      |      |      |      |      |      |      |      |      |      | 27   |                          |      |      |    |      |      |    |    |    |    |    | 27   | 0.00 | 0.00               |                       |
| 28   |                          |      |      |      |      |      |      |      |      |      |      |      | 28   |                          |      |      |    |      |      |    |    |    |    |    | 28   | 0.06 | 0.06               |                       |
| 29   | 0.04                     | 0.04 | 0.26 | 0.04 | 0.05 | 0.02 | 0.11 | 0.01 | T    |      |      |      | 29   |                          |      |      |    |      |      |    |    |    |    |    | 29   | 0.58 | 0.58               |                       |
| 30   | 0.09                     | 0.08 | 1.11 | 0.07 | T    | 0.33 | 0.43 | 0.31 | 1.00 | 0.50 | 0.13 | 0.28 | 30   | 0.27                     | 0.18 | 0.03 |    | 0.05 | 0.01 |    |    |    |    | 30 | 4.87 | 4.87 |                    |                       |

\* Indicates sum of Hourly and Daily disagree.

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes)  | 5    | 10   | 15   | 20   | 30   | 45   | 60   | 80   | 100  | 120  | 150  | 180  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation (Inches) | 0.27 | 0.40 | 0.56 | 0.73 | 0.83 | 0.91 | 1.12 | 1.36 | 1.60 | 1.73 | 1.81 | 1.89 |
| Ending Date            | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Ending Time (Hr/Min)   | 0229 | 0219 | 0227 | 0229 | 0236 | 0254 | 0303 | 0907 | 0925 | 0944 | 1014 | 0909 |

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

Date and time are not entered for TRACE amounts.

# REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

\* = Extreme for the month (last occurrence if more than one).

T = Trace precipitation amount.

+ = also occurs on earlier date.

FG+ = Heavy fog, visibility .25 miles or less.

BLANK entries denote missing or unreported data.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

## WEATHER NOTATIONS

| QUALIFIER          | WEATHER PHENOMENA                 |                    |                                    |
|--------------------|-----------------------------------|--------------------|------------------------------------|
| DESCRIPTOR         | PRECIPITATION                     | OBSCURATION        | OTHER                              |
| BC Patches         | DZ Drizzle                        | BR Mist            | DS Duststorm                       |
| BL Blowing         | GR Hail                           | DU Widespread Dust | FC Funnel Cloud                    |
| DR Low Drifting    | GS Small Hail and/or Snow Pellets | FG Fog             | +FC Tornado Waterspout             |
| FZ Freezing        | IC Ice Crystals                   | FU Smoke           | PO Well-Developed Dust/Sand Whirls |
| MI Shallow         | PL Ice Pellets                    | HZ Haze            |                                    |
| PR Partial         | RA Rain                           | PY Spray           | SQ Squalls                         |
| SH Shower(s)       | SG Snow Grains                    | SA Sand            | SS Sandstorm                       |
| TS Thunderstorm    | SN Snow                           | VA Volcanic Ash    |                                    |
| VC In the Vicinity | UP Unkown Precipitation           |                    | GL Glaze                           |

Intensity (as indicated on pages 4 to 6):  
 '+' = Heavy    '' = Moderate    '.' = Light

# KNOXVILLE, TN NOVEMBER 2016

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

NORMALS ARE FOR THE YEARS 1981-2010

### ADDITIONAL NOTES & ERRATA:

Station Augmentation-CONTRACTOR ON AIRPORT  
 Lat/Lon:/ Elevation:  
 Distance:2200ft Dir:W  
 Augmented Elements:TEMP, PRECIP, SNOW  
 Equipment:SRG, PSY, SNOWBOARD, SNOWSTICK

| Date                              | VISIBILITY (MILES) |         |
|-----------------------------------|--------------------|---------|
|                                   | MINIMUM            | MAXIMUM |
| 01                                | 7.00               | 10.00   |
| 02                                | 7.00               | 10.00   |
| 03                                | 7.00               | 10.00   |
| 04                                | 10.00              | 10.00   |
| 05                                | 10.00              | 10.00   |
| 06                                | 10.00              | 10.00   |
| 07                                | 2.50               | 10.00   |
| 08                                | 2.50               | 7.00    |
| 09                                | 3.00               | 10.00   |
| 10                                | 10.00              | 10.00   |
| 11                                | 5.00               | 10.00   |
| 12                                | 6.00               | 10.00   |
| 13                                | 3.00               | 8.00    |
| 14                                | 1.50               | 5.00    |
| 15                                | 2.00               | 10.00   |
| 16                                | 3.00               | 10.00   |
| 17                                | 6.00               | 10.00   |
| 18                                | 2.00               | 10.00   |
| 19                                | 3.00               | 10.00   |
| 20                                | 9.00               | 10.00   |
| 21                                | 5.00               | 10.00   |
| 22                                | 3.00               | 10.00   |
| 23                                | 5.00               | 10.00   |
| 24                                | 2.00               | 10.00   |
| 25                                | 0.12               | 10.00   |
| 26                                | 10.00              | 10.00   |
| 27                                | 0.00               | 10.00   |
| 28                                | 8.00               | 10.00   |
| 29                                | 4.00               | 10.00   |
| 30                                | 0.75               | 10.00   |
| <b>AVGS</b>                       | 4.91               | 9.67    |
| <b>MINIMUM VISIBILITY (MILES)</b> |                    |         |
| <= .25                            | <= 3.0             | >= 7.0  |
| 2                                 | 14                 | 10      |

# OBSERVATIONS AT 3-HOURLY INTERVALS

**KNOXVILLE, TN**  
**NOVEMBER 2016**      **KTYS**

**WBAN # 13891**

| HOUR (LST)           | SKY COVER | CEILING<br>100's of FT. | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F |           |          |                            | WIND        |                          | PRESSURE<br>(INCHES, HG) |              | HOUR (LST) | SKY COVER | CEILING<br>100's of FT. | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F |           |               |                            | WIND        |                          | PRESSURE<br>(INCHES, HG) |                     |          |           |          |                            |             |                          |         |              |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
|----------------------|-----------|-------------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|-------------|--------------------------|--------------------------|--------------|------------|-----------|-------------------------|-----------------------|---------|-------------------|-----------|---------------|----------------------------|-------------|--------------------------|--------------------------|---------------------|----------|-----------|----------|----------------------------|-------------|--------------------------|---------|--------------|----|---|----|-------|-------|----|-----|-----|-------|--|----|----|----|----|---|----|-------|-------|----|-----|-----|-------|--|----|----|----|----|----|----|-------|-------|----|-----|-----|-------|--|----|----|----|----|----|----|-------|-------|----|-----|-----|-------|--|----|----|----|----|----|----|-------|-------|----|-----|-----|-------|--|----|----|----|----|---|----|-------|-------|----|-----|-----|-------|--|----|----|----|----|---|----|-------|-------|----|-----|-----|-------|--|----|----|----|----|---|----|-------|-------|
|                      |           |                         |                       |         | DRY BULB          | DEW POINT | WET BULB | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) | DIRECTION<br>Tens of Deg | STATION                  | SEA<br>LEVEL |            |           |                         |                       |         | DRY BULB          | DEW POINT | WET BULB      | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) | DIRECTION<br>Tens of Deg | STATION                  | SEA<br>LEVEL        |          |           |          |                            |             |                          |         |              |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
|                      |           |                         |                       |         |                   |           |          |                            |             |                          |                          |              |            |           |                         |                       |         |                   |           |               |                            |             |                          |                          |                     | DRY BULB | DEW POINT | WET BULB | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) | DIRECTION<br>Tens of Deg | STATION | SEA<br>LEVEL |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| <b>SUNRISE: 0658</b> |           |                         |                       |         | <b>NOV 01</b>     |           |          |                            |             | <b>SUNSET: 1741</b>      |                          |              |            |           | <b>SUNRISE: 0704</b>    |                       |         |                   |           | <b>NOV 07</b> |                            |             |                          |                          | <b>SUNSET: 1735</b> |          |           |          |                            |             |                          |         |              |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | OVC       | 250                     | 10.00                 |         | 63                | 54        | 58       | 73                         | 0           | 00                       | 29.06                    | 30.08        | 01         | OVC       | 044                     | 10.00                 |         | 48                | 37        | 43            | 66                         | 0           | 00                       | 29.25                    | 30.30               | 04       | CLR       | NC       | 10.00                      |             | 44                       | 36      | 40           | 73 | 3 | 04 | 29.26 | 30.31 | 07 | BKN | 250 | 7.00  |  | 56 | 53 | 54 | 90 | 0 | 00 | 29.14 | 30.16 | 10 | SCT | 250 | 10.00 |  | 70 | 55 | 61 | 59 | 0  | 00 | 29.18 | 30.21 | 13 | SCT | 250 | 10.00 |  | 85 | 51 | 65 | 31 | 16 | 23 | 29.13 | 30.15 | 16 | SCT | 250 | 10.00 |  | 83 | 49 | 63 | 31 | 14 | 25 | 29.09 | 30.11 | 19 | CLR | NC  | 10.00 |  | 73 | 49 | 59 | 43 | 6 | 21 | 29.14 | 30.16 | 22 | CLR | NC  | 10.00 |  | 68 | 50 | 58 | 53 | 0 | 00 | 29.18 | 30.20 | 22 | SCT | 250 | 5.00  |  | 52 | 37 | 45 | 57 | 0 | 00 | 29.26 | 30.32 |
| <b>SUNRISE: 0659</b> |           |                         |                       |         | <b>NOV 02</b>     |           |          |                            |             | <b>SUNSET: 1740</b>      |                          |              |            |           | <b>SUNRISE: 0705</b>    |                       |         |                   |           | <b>NOV 08</b> |                            |             |                          |                          | <b>SUNSET: 1734</b> |          |           |          |                            |             |                          |         |              |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | CLR       | NC                      | 10.00                 |         | 62                | 51        | 56       | 67                         | 0           | 00                       | 29.18                    | 30.21        | 01         | OVC       | 250                     | 5.00                  |         | 49                | 38        | 44            | 66                         | 0           | 00                       | 29.25                    | 30.30               | 04       | OVC       | 046      | 6.00                       |             | 47                       | 38      | 43           | 71 | 0 | 00 | 29.25 | 30.30 | 07 | BKN | 250 | 10.00 |  | 57 | 50 | 53 | 78 | 0 | 00 | 29.27 | 30.31 | 10 | BKN | 250 | 8.00  |  | 67 | 54 | 60 | 63 | 0  | 00 | 29.31 | 30.35 | 13 | BKN | 250 | 10.00 |  | 79 | 55 | 64 | 44 | 3  | VR | 29.25 | 30.28 | 16 | OVC | 250 | 10.00 |  | 78 | 54 | 64 | 43 | 5  | 34 | 29.21 | 30.24 | 19 | BKN | 250 | 10.00 |  | 71 | 55 | 62 | 57 | 0 | 00 | 29.21 | 30.24 | 22 | BKN | 250 | 10.00 |  | 65 | 55 | 59 | 70 | 3 | 17 | 29.21 | 30.24 | 22 | OVC | 100 | 4.00  |  | 56 | 41 | 49 | 57 | 3 | 23 | 29.12 | 30.16 |
| <b>SUNRISE: 0660</b> |           |                         |                       |         | <b>NOV 03</b>     |           |          |                            |             | <b>SUNSET: 1739</b>      |                          |              |            |           | <b>SUNRISE: 0706</b>    |                       |         |                   |           | <b>NOV 09</b> |                            |             |                          |                          | <b>SUNSET: 1734</b> |          |           |          |                            |             |                          |         |              |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | BKN       | 250                     | 9.00                  |         | 62                | 54        | 57       | 75                         | 0           | 00                       | 29.21                    | 30.24        | 01         | OVC       | 085                     | 3.00                  |         | 57                | 40        | 49            | 53                         | 0           | 00                       | 29.07                    | 30.10               | 04       | OVC       | 040      | 5.00                       |             | 57                       | 44      | 50           | 62 | 5 | 28 | 29.05 | 30.08 | 07 | BKN | 250 | 9.00  |  | 59 | 53 | 56 | 81 | 0 | 00 | 29.21 | 30.24 | 10 | BKN | 250 | 9.00  |  | 68 | 56 | 61 | 65 | 5  | 23 | 29.21 | 30.23 | 13 | BKN | 250 | 10.00 |  | 76 | 56 | 64 | 50 | 6  | 26 | 29.13 | 30.15 | 16 | BKN | 150 | 10.00 |  | 80 | 54 | 64 | 41 | 9  | 26 | 29.07 | 30.09 | 19 | OVC | 250 | 10.00 |  | 75 | 53 | 62 | 46 | 5 | 26 | 29.06 | 30.09 | 22 | OVC | 130 | 10.00 |  | 66 | 60 | 62 | 81 | 6 | 23 | 29.06 | 30.09 | 22 | FEW | 035 | 10.00 |  | 49 | 36 | 43 | 61 | 9 | 35 | 29.19 | 30.24 |
| <b>SUNRISE: 0701</b> |           |                         |                       |         | <b>NOV 04</b>     |           |          |                            |             | <b>SUNSET: 1738</b>      |                          |              |            |           | <b>SUNRISE: 0707</b>    |                       |         |                   |           | <b>NOV 10</b> |                            |             |                          |                          | <b>SUNSET: 1733</b> |          |           |          |                            |             |                          |         |              |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | OVC       | 100                     | 10.00                 |         | 67                | 58        | 62       | 73                         | 6           | 01                       | 29.06                    | 30.08        | 01         | FEW       | 035                     | 10.00                 |         | 46                | 36        | 42            | 68                         | 6           | 36                       | 29.21                    | 30.27               | 04       | CLR       | NC       | 10.00                      |             | 62                       | 55      | 58           | 78 | 3 | 02 | 29.09 | 30.11 | 07 | CLR | NC  | 10.00 |  | 59 | 51 | 55 | 75 | 8 | 01 | 29.15 | 30.18 | 10 | FEW | 029 | 10.00 |  | 66 | 49 | 57 | 54 | 15 | 04 | 29.21 | 30.24 | 13 | SCT | 055 | 10.00 |  | 72 | 38 | 54 | 29 | 10 | 06 | 29.18 | 30.21 | 16 | FEW | 070 | 10.00 |  | 72 | 35 | 53 | 26 | 13 | 04 | 29.15 | 30.19 | 19 | CLR | NC  | 10.00 |  | 63 | 36 | 50 | 37 | 6 | 01 | 29.21 | 30.24 | 22 | CLR | NC  | 10.00 |  | 56 | 37 | 47 | 49 | 8 | 02 | 29.23 | 30.28 | 22 | FEW | 030 | 10.00 |  | 56 | 29 | 44 | 36 | 3 | 20 | 29.11 | 30.16 |
| <b>SUNRISE: 0702</b> |           |                         |                       |         | <b>NOV 05</b>     |           |          |                            |             | <b>SUNSET: 1737</b>      |                          |              |            |           | <b>SUNRISE: 0708</b>    |                       |         |                   |           | <b>NOV 11</b> |                            |             |                          |                          | <b>SUNSET: 1732</b> |          |           |          |                            |             |                          |         |              |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | CLR       | NC                      | 10.00                 |         | 53                | 37        | 46       | 55                         | 11          | 03                       | 29.24                    | 30.28        | 01         | CLR       | NC                      | 10.00                 |         | 43                | 30        | 38            | 60                         | 3           | 22                       | 29.10                    | 30.14               | 04       | CLR       | NC       | 10.00                      |             | 50                       | 38      | 44           | 63 | 9 | 03 | 29.24 | 30.29 | 07 | SCT | 050 | 7.00  |  | 38 | 30 | 35 | 73 | 0 | 00 | 29.07 | 30.11 | 10 | CLR | NC  | 10.00 |  | 56 | 39 | 48 | 53 | 6  | 03 | 29.32 | 30.37 | 13 | CLR | NC  | 10.00 |  | 66 | 36 | 51 | 33 | 0  | 00 | 29.26 | 30.31 | 16 | OVC | 250 | 10.00 |  | 69 | 36 | 53 | 30 | 0  | 00 | 29.23 | 30.27 | 19 | BKN | 250 | 10.00 |  | 61 | 39 | 50 | 44 | 3 | 03 | 29.22 | 30.27 | 22 | OVC | 250 | 10.00 |  | 56 | 40 | 48 | 55 | 0 | 00 | 29.24 | 30.29 | 22 | FEW | 250 | 10.00 |  | 51 | 38 | 45 | 61 | 7 | 04 | 29.09 | 30.14 |
| <b>SUNRISE: 0703</b> |           |                         |                       |         | <b>NOV 06</b>     |           |          |                            |             | <b>SUNSET: 1736</b>      |                          |              |            |           | <b>SUNRISE: 0709</b>    |                       |         |                   |           | <b>NOV 12</b> |                            |             |                          |                          | <b>SUNSET: 1731</b> |          |           |          |                            |             |                          |         |              |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |    |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | OVC       | 250                     | 10.00                 |         | 50                | 41        | 46       | 71                         | 0           | 00                       | 29.24                    | 30.29        | 01         | CLR       | NC                      | 10.00                 |         | 50                | 37        | 44            | 61                         | 11          | 02                       | 29.14                    | 30.17               | 04       | BKN       | 150      | 10.00                      |             | 46                       | 39      | 43           | 77 | 0 | 00 | 29.26 | 30.31 | 07 | SCT | 150 | 10.00 |  | 44 | 34 | 40 | 68 | 8 | 02 | 29.21 | 30.26 | 10 | OVC | 250 | 10.00 |  | 54 | 40 | 47 | 59 | 3  | 03 | 29.31 | 30.37 | 13 | OVC | 250 | 10.00 |  | 68 | 34 | 51 | 28 | 8  | 07 | 29.25 | 30.30 | 16 | OVC | 250 | 10.00 |  | 71 | 32 | 52 | 24 | 9  | 06 | 29.21 | 30.26 | 19 | OVC | 250 | 10.00 |  | 61 | 34 | 48 | 36 | 3 | 07 | 29.22 | 30.27 | 22 | OVC | 045 | 10.00 |  | 53 | 35 | 45 | 51 | 0 | 00 | 29.23 | 30.29 | 22 | FEW | 065 | 9.00  |  | 45 | 35 | 41 | 68 | 3 | 01 | 29.22 | 30.28 |

# OBSERVATIONS AT 3-HOURLY INTERVALS

**KNOXVILLE, TN**  
**NOVEMBER 2016**      **KTYS**

**WBAN # 13891**

| HOUR (LST)           | SKY COVER | CEILING<br>100's of FT. | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F |           |          |                            |             | WIND                     |         | PRESSURE<br>(INCHES, HG) |          | HOUR (LST) | SKY COVER            | CEILING<br>100's of FT. | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F |                     |                            |             |                          | WIND    |                     | PRESSURE<br>(INCHES, HG) |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       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|       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |      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 |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| <b>SUNRISE: 0710</b> |           |                         |                       |         | <b>NOV 13</b>     |           |          |                            |             | <b>SUNSET: 1730</b>      |         |                          |          |            | <b>SUNRISE: 0716</b> |                         |                       |         |                   | <b>NOV 19</b>       |                            |             |                          |         | <b>SUNSET: 1727</b> |                          |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | BKN       | 250                     | 8.00                  |         | 41                | 34        | 38       | 76                         | 0           | 00                       | 29.21   | 30.26                    | 01       | FEW        | 020                  | 9.00                    |                       |         | 58                | 39                  | 49                         | 50          | 9                        | 25      | 29.01               | 30.04                    | 04  | SCT | 250   | 8.00  |       | 39 | 33 | 36 | 79 | 0  | 00    | 29.21 | 30.27 | 04  | SCT | 070   | 9.00  |    | 57 | 41 | 49 | 55 | 6  | 21    | 28.95 | 29.98 | 07  | SCT | 200   | 8.00  |       | 36 | 32 | 34 | 86 | 0  | 00    | 29.22 | 30.28 | 07  | OVC | 032   | 10.00 | -RA | 46 | 41 | 44 | 83 | 22 | 28    | 29.04 | 30.08 | 10  | OVC | 033  | 3.00  | HZ    | 43 | 36 | 40 | 76 | 5  | 02    | 29.24 | 30.30 | 10  | OVC | 025   | 10.00 |    | 43 | 33 | 39 | 68 | 10 | 26    | 29.21 | 30.25 | 13  | SCT | 043   | 5.00  | HZ    | 59 | 36 | 48 | 42 | 0  | 00    | 29.16 | 30.22 | 13  | SCT | 040  | 10.00 |    | 46 | 28 | 39 | 50 | 17 | 29    | 29.18 | 30.24 | 16  | CLR | NC   | 5.00  | HZ    | 62 | 32 | 48 | 32 | 6  | 30    | 29.10 | 30.15 | 16  | SCT | 045   | 10.00 |       | 51 | 21 | 39 | 31 | 14 | 28    | 29.15 | 30.19 | 19  | CLR | NC    | 5.00  | HZ    | 53 | 34 | 44 | 48 | 3  | 21    | 29.11 | 30.16 | 19  | CLR | NC    | 10.00 |       | 46 | 18 | 36 | 32 | 15 | 28    | 29.18 | 30.24 | 22  | CLR | NC    | 6.00  | HZ    | 48 | 34 | 42 | 58 | 6  | 30    | 29.10 | 30.15 | 22  | CLR | NC    | 10.00 |       | 41 | 20 | 33 | 43 | 5  | 25    | 29.21 | 30.28                | <b>SUNRISE: 0711</b> |  |  |  |               | <b>NOV 14</b> |  |  |  |                      | <b>SUNRISE: 0717</b> |  |  |  |               | <b>NOV 20</b> |  |  |  |                     | <b>SUNSET: 1726</b> |  |  |  |    | 01  | CLR | NC   | 5.00  | HZ    | 42 | 34 | 39 | 73 | 6  | 19    | 29.09 | 30.14 | 01  | FEW | 250  | 10.00 |       |    | 38 | 22 | 32 | 52 | 5     | 27    | 29.21 | 30.28 | 04  | CLR  | NC    | 4.00 | HZ FU | 39 | 33 | 36 | 79 | 0     | 00    | 29.06 | 30.11 | 04  | CLR  | NC    | 10.00 |    | 32 | 21 | 28 | 64 | 0     | 00    | 29.21 | 30.27 | 07  | BKN  | 035   | 4.00 | HZ FU | 37 | 32 | 35 | 82 | 3     | 10    | 29.07 | 30.12 | 07  | CLR  | NC    | 10.00 |    | 30 | 21 | 27 | 69 | 5     | 23    | 29.23 | 30.30 | 10  | BKN  | 030   | 2.00 | FU    | 46 | 37 | 42 | 71 | 0     | 00    | 29.09 | 30.14 | 10  | CLR  | NC    | 9.00  |    | 37 | 20 | 31 | 50 | 9     | 29    | 29.25 | 30.32 | 13  | BKN  | 026   | 1.50 | FU    | 60 | 36 | 48 | 41 | 0     | 00    | 28.99 | 30.03 | 13  | CLR  | NC   | 10.00 |    | 43 | 17 | 34 | 35 | 3     | VR    | 29.21 | 30.27 | 16  | SCT  | 200  | 3.00  | HZ FU | 63 | 34 | 49 | 34 | 6     | 27    | 28.94 | 29.98 | 16  | CLR   | NC   | 10.00 |       | 47 | 15 | 35 | 28 | 3     | VR    | 29.16 | 30.22 | 19  | FEW   | 038   | 3.00  | HZ FU | 54 | 36 | 46 | 51 | 0     | 00    | 28.95 | 30.00 | 19  | CLR   | NC    | 10.00 |       | 40 | 17 | 32 | 40 | 6     | 21    | 29.16 | 30.23 | 22  | FEW   | 038  | 4.00  | HZ FU | 49 | 35 | 43 | 59 | 0     | 00    | 28.96 | 30.01 | 22  | CLR   | NC    | 10.00 |       | 33 | 20 | 28 | 58 | 5     | 09    | 29.18 | 30.25                | <b>SUNRISE: 0712</b> |  |  |  |               | <b>NOV 15</b> |  |  |  |                      | <b>SUNRISE: 0718</b> |  |  |  |               | <b>NOV 21</b> |  |  |  |                     | <b>SUNSET: 1726</b> |  |  |  |    | 01  | SCT | 035  | 5.00  | HZ FU | 42 | 34 | 39 | 73 | 0  | 00    | 28.95 | 29.99 | 01  | CLR | NC   | 10.00 |       |    | 30 | 19 | 26 | 64 | 0     | 00    | 29.14 | 30.20 | 04  | FEW  | 035   | 4.00 | HZ FU | 39 | 33 | 36 | 79 | 0     | 00    | 28.94 | 29.98 | 04  | CLR  | NC    | 10.00 |    | 26 | 20 | 24 | 78 | 3     | 27    | 29.15 | 30.21 | 07  | SCT  | 035   | 4.00 | BR FU | 36 | 33 | 35 | 89 | 0     | 00    | 28.96 | 30.01 | 07  | FEW  | 050   | 10.00 |    | 26 | 19 | 24 | 75 | 0     | 00    | 29.18 | 30.26 | 10  | SCT  | 027   | 2.50 | HZ FU | 48 | 37 | 43 | 66 | 0     | 00    | 28.97 | 30.02 | 10  | FEW  | 250   | 10.00 |    | 39 | 22 | 33 | 50 | 8     | 02    | 29.22 | 30.29 | 13  | SCT  | 180   | 4.00 | HZ FU | 61 | 35 | 49 | 38 | 0     | 00    | 28.92 | 29.96 | 13  | CLR  | NC   | 10.00 |    | 47 | 12 | 35 | 24 | 7     | 35    | 29.18 | 30.24 | 16  | BKN  | 180  | 10.00 |    | 61 | 35 | 49 | 38 | 6     | 32    | 28.88 | 29.93 | 16  | FEW   | 020  | 10.00 |       | 51 | 9  | 36 | 18 | 0     | 00    | 29.15 | 30.21 | 19  | OVC   | 085   | 8.00  |    | 56 | 37 | 47 | 49 | 3     | 22    | 28.88 | 29.93 | 19  | CLR   | NC    | 10.00 |       | 44 | 13 | 33 | 28 | 3     | 02    | 29.15 | 30.23 | 22  | SCT   | 049  | 8.00  |    | 51 | 38 | 45 | 61 | 0     | 00    | 28.90 | 29.95 | 22  | FEW   | 250   | 10.00 |       | 36 | 16 | 29 | 44 | 6     | 05    | 29.15 | 30.22                | <b>SUNRISE: 0713</b> |  |  |  |               | <b>NOV 16</b> |  |  |  |                      | <b>SUNRISE: 0719</b> |  |  |  |               | <b>NOV 22</b> |  |  |  |                     | <b>SUNSET: 1725</b> |  |  |  |    | 01  | BKN | 060  | 8.00  |    | 46 | 37 | 42 | 71 | 0  | 00    | 28.90 | 29.94 | 01  | CLR | NC   | 10.00 |       |    | 36 | 21 | 31 | 55 | 6     | 35    | 29.18 | 30.24 | 04  | CLR  | NC    | 7.00 |    | 42 | 36 | 39 | 79 | 0     | 00    | 28.92 | 29.97 | 04  | CLR  | NC    | 10.00 |    | 34 | 21 | 29 | 59 | 5     | 05    | 29.19 | 30.26 | 07  | SCT  | 250   | 8.00 |    | 40 | 35 | 38 | 83 | 3     | 19    | 28.93 | 29.98 | 07  | FEW  | 050   | 10.00 |    | 33 | 21 | 29 | 61 | 8     | 02    | 29.22 | 30.29 | 10  | SCT  | 026   | 3.00 | HZ FU | 55 | 41 | 48 | 59 | 8     | 25    | 28.97 | 30.01 | 10  | BKN  | 250   | 10.00 |    | 40 | 20 | 33 | 45 | 8     | 03    | 29.25 | 30.32 | 13  | CLR  | NC    | 7.00 |    | 66 | 38 | 52 | 36 | 7     | 20    | 28.94 | 29.98 | 13  | BKN  | 250  | 10.00 |    | 50 | 19 | 38 | 29 | 0     | 00    | 29.22 | 30.28 | 16  | CLR  | NC   | 10.00 |    | 68 | 33 | 51 | 27 | 3     | 20    | 28.92 | 29.96 | 16  | BKN   | 250  | 5.00 | HZ FU | 55 | 17 | 40 | 22 | 3     | 29    | 29.18 | 30.24 | 19  | CLR   | NC    | 10.00 |    | 60 | 35 | 48 | 39 | 0     | 00    | 28.94 | 29.99 | 19  | BKN   | 250   | 3.00 | HZ FU | 49 | 21 | 38 | 33 | 3     | 07    | 29.18 | 30.25 | 22  | CLR   | NC   | 10.00 |    | 51 | 36 | 44 | 56 | 0     | 00    | 28.98 | 30.02 | 22  | BKN   | 250   | 6.00 | HZ FU | 44 | 24 | 36 | 45 | 0     | 00    | 29.18 | 30.25                | <b>SUNRISE: 0714</b> |  |  |  |               | <b>NOV 17</b> |  |  |  |                      | <b>SUNRISE: 0720</b> |  |  |  |               | <b>NOV 23</b> |  |  |  |                     | <b>SUNSET: 1725</b> |  |  |  |    | 01  | CLR | NC   | 10.00 |    | 47 | 35 | 42 | 63 | 0  | 00    | 28.99 | 30.03 | 01  | OVC | 050  | 10.00 | HZ FU | 41 | 26 | 35 | 55 | 0  | 00    | 29.18 | 30.23 | 04  | CLR | NC   | 10.00 |    | 41 | 34 | 38 | 76 | 0  | 00    | 29.03 | 30.07 | 04  | BKN | 050  | 10.00 | HZ FU | 42 | 27 | 36 | 55 | 6  | 01    | 29.16 | 30.22 | 07  | CLR | NC   | 10.00 |    | 38 | 33 | 36 | 83 | 3  | 05    | 29.06 | 30.11 | 07  | FEW | 100  | 10.00 | HZ FU | 41 | 29 | 36 | 62 | 5  | 03    | 29.19 | 30.25 | 10  | CLR | NC   | 8.00  |    | 54 | 38 | 46 | 55 | 3  | 03    | 29.11 | 30.15 | 10  | BKN | 250  | 10.00 |    | 46 | 29 | 39 | 51 | 0  | 00    | 29.21 | 30.27 | 13  | CLR | NC   | 10.00 |    | 70 | 38 | 54 | 31 | 0  | 00    | 29.06 | 30.10 | 13  | OVC | 250  | 5.00 | HZ FU | 61 | 23 | 45 | 23 | 0  | 00    | 29.12 | 30.16 | 16  | FEW | 023  | 6.00 | HZ FU | 74 | 41 | 56 | 31 | 0  | 00    | 29.02 | 30.06 | 16  | SCT | 250   | 7.00 | FU | 66 | 24 | 47 | 20 | 9  | 16    | 29.04 | 30.08 | 19  | CLR | NC    | 10.00 |    | 64 | 42 | 53 | 45 | 0  | 00    | 29.05 | 30.09 | 19  | BKN | 150   | 10.00 |    | 59 | 33 | 47 | 38 | 5  | 22    | 29.05 | 30.09 | 22  | FEW | 000   | 6.00 |    | 54 | 41 | 48 | 62 | 0  | 00    | 29.07 | 30.11 | 22  | OVC | 055   | 10.00 | -RA | 58 | 41 | 50 | 53 | 6  | 21    | 29.10 | 30.14 | <b>SUNRISE: 0715</b> |  |  |  |  | <b>NOV 18</b> |  |  |  |  | <b>SUNRISE: 0721</b> |  |  |  |  | <b>NOV 24</b> |  |  |  |  | <b>SUNSET: 1724</b> |  |  |  |  | 01 | SCT | 003 | 6.00 | HZ FU | 48 | 40 | 44 | 74 | 0 | 00 | 29.09 | 30.12 | 01 | OVC | 043 | 8.00 | -RA | 54 | 49 | 51 | 83 | 6 | 25 | 29.10 | 30.14 | 04 | BKN | 003 | 4.00 | HZ FU | 44 | 39 | 42 | 83 | 0 | 00 | 29.10 | 30.14 | 04 | OVC | 036 | 4.00 | BR | 51 | 49 | 50 | 92 | 5 | 04 | 29.09 | 30.13 | 07 | SCT | 003 | 4.00 | BR FU | 42 | 38 | 40 | 85 | 0 | 00 | 29.15 | 30.20 | 07 | BKN | 080 | 2.00 | BR | 49 | 47 | 48 | 93 | 0 | 00 | 29.13 | 30.17 | 10 | SCT | 003 | 2.50 | BR FU | 55 | 42 | 49 | 62 | 0 | 00 | 29.18 | 30.23 | 10 | OVC | 060 | 4.00 | BR | 52 | 48 | 50 | 86 | 0 | 00 | 29.18 | 30.22 | 13 | SCT | 003 | 2.00 | BR FU | 71 | 41 | 55 | 34 | 0 | 00 | 29.11 | 30.14 | 13 | BKN | 055 | 8.00 |  | 62 | 52 | 56 | 70 | 3 | 21 | 29.14 | 30.18 | 16 | FEW | 250 | 7.00 |  | 77 | 36 | 56 | 23 | 9 | 24 | 29.03 | 30.06 | 16 | SCT | 050 | 10.00 |  | 67 | 50 | 58 | 55 | 5 | VR | 29.12 | 30.15 | 19 | FEW | 020 | 10.00 |  | 65 | 37 | 51 | 36 | 5 | 19 | 29.05 | 30.09 | 19 | BKN | 055 | 10.00 |  | 61 | 49 | 55 | 65 | 0 | 00 | 29.14 | 30.19 | 22 | FEW | 030 | 10.00 |  | 58 | 38 | 48 | 48 | 8 | 23 | 29.02 | 30.06 | 22 | SCT | 050 | 10.00 |  | 56 | 49 | 52 | 77 | 0 | 00 | 29.14 | 30.18 |
| <b>SUNRISE: 0711</b> |           |                         |                       |         | <b>NOV 14</b>     |           |          |                            |             | <b>SUNRISE: 0717</b>     |         |                          |          |            | <b>NOV 20</b>        |                         |                       |         |                   | <b>SUNSET: 1726</b> |                            |             |                          |         |                     |                          |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | CLR       | NC                      | 5.00                  | HZ      | 42                | 34        | 39       | 73                         | 6           | 19                       | 29.09   | 30.14                    | 01       | FEW        | 250                  | 10.00                   |                       |         | 38                | 22                  | 32                         | 52          | 5                        | 27      | 29.21               | 30.28                    | 04  | CLR | NC    | 4.00  | HZ FU | 39 | 33 | 36 | 79 | 0  | 00    | 29.06 | 30.11 | 04  | CLR | NC    | 10.00 |    | 32 | 21 | 28 | 64 | 0  | 00    | 29.21 | 30.27 | 07  | BKN | 035   | 4.00  | HZ FU | 37 | 32 | 35 | 82 | 3  | 10    | 29.07 | 30.12 | 07  | CLR | NC    | 10.00 |     | 30 | 21 | 27 | 69 | 5  | 23    | 29.23 | 30.30 | 10  | BKN | 030  | 2.00  | FU    | 46 | 37 | 42 | 71 | 0  | 00    | 29.09 | 30.14 | 10  | CLR | NC    | 9.00  |    | 37 | 20 | 31 | 50 | 9  | 29    | 29.25 | 30.32 | 13  | BKN | 026   | 1.50  | FU    | 60 | 36 | 48 | 41 | 0  | 00    | 28.99 | 30.03 | 13  | CLR | NC   | 10.00 |    | 43 | 17 | 34 | 35 | 3  | VR    | 29.21 | 30.27 | 16  | SCT | 200  | 3.00  | HZ FU | 63 | 34 | 49 | 34 | 6  | 27    | 28.94 | 29.98 | 16  | CLR | NC    | 10.00 |       | 47 | 15 | 35 | 28 | 3  | VR    | 29.16 | 30.22 | 19  | FEW | 038   | 3.00  | HZ FU | 54 | 36 | 46 | 51 | 0  | 00    | 28.95 | 30.00 | 19  | CLR | NC    | 10.00 |       | 40 | 17 | 32 | 40 | 6  | 21    | 29.16 | 30.23 | 22  | FEW | 038   | 4.00  | HZ FU | 49 | 35 | 43 | 59 | 0  | 00    | 28.96 | 30.01 | 22  | CLR | NC    | 10.00 |       | 33 | 20 | 28 | 58 | 5  | 09    | 29.18 | 30.25                | <b>SUNRISE: 0712</b> |  |  |  |               | <b>NOV 15</b> |  |  |  |                      | <b>SUNRISE: 0718</b> |  |  |  |               | <b>NOV 21</b> |  |  |  |                     | <b>SUNSET: 1726</b> |  |  |  |    | 01  | SCT | 035  | 5.00  | HZ FU | 42 | 34 | 39 | 73 | 0  | 00    | 28.95 | 29.99 | 01  | CLR | NC   | 10.00 |       |    | 30 | 19 | 26 | 64 | 0     | 00    | 29.14 | 30.20 | 04  | FEW  | 035   | 4.00 | HZ FU | 39 | 33 | 36 | 79 | 0     | 00    | 28.94 | 29.98 | 04  | CLR  | NC    | 10.00 |    | 26 | 20 | 24 | 78 | 3     | 27    | 29.15 | 30.21 | 07  | SCT  | 035   | 4.00 | BR FU | 36 | 33 | 35 | 89 | 0     | 00    | 28.96 | 30.01 | 07  | FEW  | 050   | 10.00 |    | 26 | 19 | 24 | 75 | 0     | 00    | 29.18 | 30.26 | 10  | SCT  | 027   | 2.50 | HZ FU | 48 | 37 | 43 | 66 | 0     | 00    | 28.97 | 30.02 | 10  | FEW  | 250   | 10.00 |    | 39 | 22 | 33 | 50 | 8     | 02    | 29.22 | 30.29 | 13  | SCT  | 180   | 4.00 | HZ FU | 61 | 35 | 49 | 38 | 0     | 00    | 28.92 | 29.96 | 13  | CLR  | NC   | 10.00 |    | 47 | 12 | 35 | 24 | 7     | 35    | 29.18 | 30.24 | 16  | BKN  | 180  | 10.00 |       | 61 | 35 | 49 | 38 | 6     | 32    | 28.88 | 29.93 | 16  | FEW   | 020  | 10.00 |       | 51 | 9  | 36 | 18 | 0     | 00    | 29.15 | 30.21 | 19  | OVC   | 085   | 8.00  |       | 56 | 37 | 47 | 49 | 3     | 22    | 28.88 | 29.93 | 19  | CLR   | NC    | 10.00 |       | 44 | 13 | 33 | 28 | 3     | 02    | 29.15 | 30.23 | 22  | SCT   | 049  | 8.00  |       | 51 | 38 | 45 | 61 | 0     | 00    | 28.90 | 29.95 | 22  | FEW   | 250   | 10.00 |       | 36 | 16 | 29 | 44 | 6     | 05    | 29.15 | 30.22                | <b>SUNRISE: 0713</b> |  |  |  |               | <b>NOV 16</b> |  |  |  |                      | <b>SUNRISE: 0719</b> |  |  |  |               | <b>NOV 22</b> |  |  |  |                     | <b>SUNSET: 1725</b> |  |  |  |    | 01  | BKN | 060  | 8.00  |       | 46 | 37 | 42 | 71 | 0  | 00    | 28.90 | 29.94 | 01  | CLR | NC   | 10.00 |       |    | 36 | 21 | 31 | 55 | 6     | 35    | 29.18 | 30.24 | 04  | CLR  | NC    | 7.00 |       | 42 | 36 | 39 | 79 | 0     | 00    | 28.92 | 29.97 | 04  | CLR  | NC    | 10.00 |    | 34 | 21 | 29 | 59 | 5     | 05    | 29.19 | 30.26 | 07  | SCT  | 250   | 8.00 |       | 40 | 35 | 38 | 83 | 3     | 19    | 28.93 | 29.98 | 07  | FEW  | 050   | 10.00 |    | 33 | 21 | 29 | 61 | 8     | 02    | 29.22 | 30.29 | 10  | SCT  | 026   | 3.00 | HZ FU | 55 | 41 | 48 | 59 | 8     | 25    | 28.97 | 30.01 | 10  | BKN  | 250   | 10.00 |    | 40 | 20 | 33 | 45 | 8     | 03    | 29.25 | 30.32 | 13  | CLR  | NC    | 7.00 |       | 66 | 38 | 52 | 36 | 7     | 20    | 28.94 | 29.98 | 13  | BKN  | 250  | 10.00 |    | 50 | 19 | 38 | 29 | 0     | 00    | 29.22 | 30.28 | 16  | CLR  | NC   | 10.00 |    | 68 | 33 | 51 | 27 | 3     | 20    | 28.92 | 29.96 | 16  | BKN   | 250  | 5.00  | HZ FU | 55 | 17 | 40 | 22 | 3     | 29    | 29.18 | 30.24 | 19  | CLR   | NC    | 10.00 |    | 60 | 35 | 48 | 39 | 0     | 00    | 28.94 | 29.99 | 19  | BKN   | 250   | 3.00  | HZ FU | 49 | 21 | 38 | 33 | 3     | 07    | 29.18 | 30.25 | 22  | CLR   | NC   | 10.00 |    | 51 | 36 | 44 | 56 | 0     | 00    | 28.98 | 30.02 | 22  | BKN   | 250   | 6.00  | HZ FU | 44 | 24 | 36 | 45 | 0     | 00    | 29.18 | 30.25                | <b>SUNRISE: 0714</b> |  |  |  |               | <b>NOV 17</b> |  |  |  |                      | <b>SUNRISE: 0720</b> |  |  |  |               | <b>NOV 23</b> |  |  |  |                     | <b>SUNSET: 1725</b> |  |  |  |    | 01  | CLR | NC   | 10.00 |    | 47 | 35 | 42 | 63 | 0  | 00    | 28.99 | 30.03 | 01  | OVC | 050  | 10.00 | HZ FU | 41 | 26 | 35 | 55 | 0  | 00    | 29.18 | 30.23 | 04    | CLR | NC   | 10.00 |      | 41 | 34 | 38 | 76 | 0  | 00    | 29.03 | 30.07 | 04    | BKN | 050  | 10.00 | HZ FU | 42 | 27 | 36 | 55 | 6  | 01    | 29.16 | 30.22 | 07    | CLR | NC   | 10.00 |      | 38 | 33 | 36 | 83 | 3  | 05    | 29.06 | 30.11 | 07    | FEW | 100  | 10.00 | HZ FU | 41 | 29 | 36 | 62 | 5  | 03    | 29.19 | 30.25 | 10    | CLR | NC   | 8.00  |      | 54    | 38 | 46 | 55 | 3  | 03    | 29.11 | 30.15 | 10    | BKN | 250  | 10.00 |       | 46 | 29 | 39 | 51 | 0  | 00    | 29.21 | 30.27 | 13    | CLR | NC   | 10.00 |      | 70 | 38 | 54 | 31 | 0  | 00    | 29.06 | 30.10 | 13    | OVC | 250  | 5.00 | HZ FU | 61 | 23 | 45 | 23 | 0  | 00    | 29.12 | 30.16 | 16    | FEW | 023  | 6.00 | HZ FU | 74 | 41 | 56 | 31 | 0  | 00    | 29.02 | 30.06 | 16    | SCT | 250   | 7.00 | FU   | 66    | 24 | 47 | 20 | 9  | 16    | 29.04 | 30.08 | 19    | CLR | NC    | 10.00 |       | 64 | 42 | 53 | 45 | 0  | 00    | 29.05 | 30.09 | 19    | BKN | 150   | 10.00 |      | 59    | 33 | 47 | 38 | 5  | 22    | 29.05 | 30.09 | 22    | FEW | 000   | 6.00 |       | 54 | 41 | 48 | 62 | 0  | 00    | 29.07 | 30.11 | 22    | OVC | 055   | 10.00 | -RA  | 58    | 41 | 50 | 53 | 6  | 21    | 29.10 | 30.14 | <b>SUNRISE: 0715</b> |                      |  |  |  | <b>NOV 18</b> |               |  |  |  | <b>SUNRISE: 0721</b> |                      |  |  |  | <b>NOV 24</b> |               |  |  |  | <b>SUNSET: 1724</b> |                     |  |  |  | 01 | SCT | 003 | 6.00 | HZ FU | 48 | 40 | 44 | 74 | 0  | 00 | 29.09 | 30.12 | 01    | OVC | 043 | 8.00 | -RA   | 54    | 49 | 51 | 83 | 6  | 25 | 29.10 | 30.14 | 04    | BKN | 003 | 4.00 | HZ FU | 44 | 39 | 42 | 83 | 0  | 00 | 29.10 | 30.14 | 04    | OVC | 036 | 4.00 | BR    | 51    | 49 | 50 | 92 | 5  | 04 | 29.09 | 30.13 | 07    | SCT | 003 | 4.00 | BR FU | 42 | 38 | 40 | 85 | 0  | 00 | 29.15 | 30.20 | 07    | BKN | 080 | 2.00 | BR    | 49    | 47 | 48 | 93 | 0  | 00 | 29.13 | 30.17 | 10    | SCT | 003 | 2.50 | BR FU | 55 | 42 | 49 | 62 | 0  | 00 | 29.18 | 30.23 | 10    | OVC | 060 | 4.00 | BR    | 52 | 48 | 50 | 86 | 0  | 00 | 29.18 | 30.22 | 13    | SCT | 003 | 2.00 | BR FU | 71 | 41 | 55 | 34 | 0  | 00 | 29.11 | 30.14 | 13    | BKN | 055 | 8.00 |      | 62    | 52 | 56 | 70 | 3  | 21 | 29.14 | 30.18 | 16    | FEW | 250 | 7.00 |      | 77    | 36 | 56 | 23 | 9  | 24 | 29.03 | 30.06 | 16    | SCT | 050 | 10.00 |      | 67 | 50 | 58 | 55 | 5  | VR | 29.12 | 30.15 | 19    | FEW | 020 | 10.00 |       | 65 | 37 | 51 | 36 | 5  | 19 | 29.05 | 30.09 | 19    | BKN | 055 | 10.00 |       | 61 | 49 | 55 | 65 | 0  | 00 | 29.14 | 30.19 | 22    | FEW | 030 | 10.00 |      | 58 | 38 | 48 | 48 | 8  | 23 | 29.02 | 30.06 | 22    | SCT | 050 | 10.00 |       | 56  | 49 | 52 | 77 | 0  | 00 | 29.14 | 30.18 |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| <b>SUNRISE: 0712</b> |           |                         |                       |         | <b>NOV 15</b>     |           |          |                            |             | <b>SUNRISE: 0718</b>     |         |                          |          |            | <b>NOV 21</b>        |                         |                       |         |                   | <b>SUNSET: 1726</b> |                            |             |                          |         |                     |                          |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | SCT       | 035                     | 5.00                  | HZ FU   | 42                | 34        | 39       | 73                         | 0           | 00                       | 28.95   | 29.99                    | 01       | CLR        | NC                   | 10.00                   |                       |         | 30                | 19                  | 26                         | 64          | 0                        | 00      | 29.14               | 30.20                    | 04  | FEW | 035   | 4.00  | HZ FU | 39 | 33 | 36 | 79 | 0  | 00    | 28.94 | 29.98 | 04  | CLR | NC    | 10.00 |    | 26 | 20 | 24 | 78 | 3  | 27    | 29.15 | 30.21 | 07  | SCT | 035   | 4.00  | BR FU | 36 | 33 | 35 | 89 | 0  | 00    | 28.96 | 30.01 | 07  | FEW | 050   | 10.00 |     | 26 | 19 | 24 | 75 | 0  | 00    | 29.18 | 30.26 | 10  | SCT | 027  | 2.50  | HZ FU | 48 | 37 | 43 | 66 | 0  | 00    | 28.97 | 30.02 | 10  | FEW | 250   | 10.00 |    | 39 | 22 | 33 | 50 | 8  | 02    | 29.22 | 30.29 | 13  | SCT | 180   | 4.00  | HZ FU | 61 | 35 | 49 | 38 | 0  | 00    | 28.92 | 29.96 | 13  | CLR | NC   | 10.00 |    | 47 | 12 | 35 | 24 | 7  | 35    | 29.18 | 30.24 | 16  | BKN | 180  | 10.00 |       | 61 | 35 | 49 | 38 | 6  | 32    | 28.88 | 29.93 | 16  | FEW | 020   | 10.00 |       | 51 | 9  | 36 | 18 | 0  | 00    | 29.15 | 30.21 | 19  | OVC | 085   | 8.00  |       | 56 | 37 | 47 | 49 | 3  | 22    | 28.88 | 29.93 | 19  | CLR | NC    | 10.00 |       | 44 | 13 | 33 | 28 | 3  | 02    | 29.15 | 30.23 | 22  | SCT | 049   | 8.00  |       | 51 | 38 | 45 | 61 | 0  | 00    | 28.90 | 29.95 | 22  | FEW | 250   | 10.00 |       | 36 | 16 | 29 | 44 | 6  | 05    | 29.15 | 30.22                | <b>SUNRISE: 0713</b> |  |  |  |               | <b>NOV 16</b> |  |  |  |                      | <b>SUNRISE: 0719</b> |  |  |  |               | <b>NOV 22</b> |  |  |  |                     | <b>SUNSET: 1725</b> |  |  |  |    | 01  | BKN | 060  | 8.00  |       | 46 | 37 | 42 | 71 | 0  | 00    | 28.90 | 29.94 | 01  | CLR | NC   | 10.00 |       |    | 36 | 21 | 31 | 55 | 6     | 35    | 29.18 | 30.24 | 04  | CLR  | NC    | 7.00 |       | 42 | 36 | 39 | 79 | 0     | 00    | 28.92 | 29.97 | 04  | CLR  | NC    | 10.00 |    | 34 | 21 | 29 | 59 | 5     | 05    | 29.19 | 30.26 | 07  | SCT  | 250   | 8.00 |       | 40 | 35 | 38 | 83 | 3     | 19    | 28.93 | 29.98 | 07  | FEW  | 050   | 10.00 |    | 33 | 21 | 29 | 61 | 8     | 02    | 29.22 | 30.29 | 10  | SCT  | 026   | 3.00 | HZ FU | 55 | 41 | 48 | 59 | 8     | 25    | 28.97 | 30.01 | 10  | BKN  | 250   | 10.00 |    | 40 | 20 | 33 | 45 | 8     | 03    | 29.25 | 30.32 | 13  | CLR  | NC    | 7.00 |       | 66 | 38 | 52 | 36 | 7     | 20    | 28.94 | 29.98 | 13  | BKN  | 250  | 10.00 |    | 50 | 19 | 38 | 29 | 0     | 00    | 29.22 | 30.28 | 16  | CLR  | NC   | 10.00 |       | 68 | 33 | 51 | 27 | 3     | 20    | 28.92 | 29.96 | 16  | BKN   | 250  | 5.00  | HZ FU | 55 | 17 | 40 | 22 | 3     | 29    | 29.18 | 30.24 | 19  | CLR   | NC    | 10.00 |       | 60 | 35 | 48 | 39 | 0     | 00    | 28.94 | 29.99 | 19  | BKN   | 250   | 3.00  | HZ FU | 49 | 21 | 38 | 33 | 3     | 07    | 29.18 | 30.25 | 22  | CLR   | NC   | 10.00 |       | 51 | 36 | 44 | 56 | 0     | 00    | 28.98 | 30.02 | 22  | BKN   | 250   | 6.00  | HZ FU | 44 | 24 | 36 | 45 | 0     | 00    | 29.18 | 30.25                | <b>SUNRISE: 0714</b> |  |  |  |               | <b>NOV 17</b> |  |  |  |                      | <b>SUNRISE: 0720</b> |  |  |  |               | <b>NOV 23</b> |  |  |  |                     | <b>SUNSET: 1725</b> |  |  |  |    | 01  | CLR | NC   | 10.00 |       | 47 | 35 | 42 | 63 | 0  | 00    | 28.99 | 30.03 | 01  | OVC | 050  | 10.00 | HZ FU | 41 | 26 | 35 | 55 | 0  | 00    | 29.18 | 30.23 | 04    | CLR | NC   | 10.00 |      | 41    | 34 | 38 | 76 | 0  | 00    | 29.03 | 30.07 | 04    | BKN | 050  | 10.00 | HZ FU | 42 | 27 | 36 | 55 | 6  | 01    | 29.16 | 30.22 | 07    | CLR | NC   | 10.00 |      | 38    | 33 | 36 | 83 | 3  | 05    | 29.06 | 30.11 | 07    | FEW | 100  | 10.00 | HZ FU | 41 | 29 | 36 | 62 | 5  | 03    | 29.19 | 30.25 | 10    | CLR | NC   | 8.00  |      | 54    | 38 | 46 | 55 | 3  | 03    | 29.11 | 30.15 | 10    | BKN | 250  | 10.00 |       | 46 | 29 | 39 | 51 | 0  | 00    | 29.21 | 30.27 | 13    | CLR | NC   | 10.00 |      | 70    | 38 | 54 | 31 | 0  | 00    | 29.06 | 30.10 | 13    | OVC | 250  | 5.00 | HZ FU | 61 | 23 | 45 | 23 | 0  | 00    | 29.12 | 30.16 | 16    | FEW | 023  | 6.00 | HZ FU | 74 | 41 | 56 | 31 | 0  | 00    | 29.02 | 30.06 | 16    | SCT | 250   | 7.00 | FU    | 66    | 24 | 47 | 20 | 9  | 16    | 29.04 | 30.08 | 19    | CLR | NC    | 10.00 |       | 64 | 42 | 53 | 45 | 0  | 00    | 29.05 | 30.09 | 19    | BKN | 150   | 10.00 |       | 59    | 33 | 47 | 38 | 5  | 22    | 29.05 | 30.09 | 22    | FEW | 000   | 6.00 |       | 54 | 41 | 48 | 62 | 0  | 00    | 29.07 | 30.11 | 22    | OVC | 055   | 10.00 | -RA   | 58    | 41 | 50 | 53 | 6  | 21    | 29.10 | 30.14 | <b>SUNRISE: 0715</b> |                      |  |  |  | <b>NOV 18</b> |               |  |  |  | <b>SUNRISE: 0721</b> |                      |  |  |  | <b>NOV 24</b> |               |  |  |  | <b>SUNSET: 1724</b> |                     |  |  |  | 01 | SCT | 003 | 6.00 | HZ FU | 48 | 40 | 44 | 74 | 0  | 00 | 29.09 | 30.12 | 01    | OVC | 043 | 8.00 | -RA   | 54    | 49 | 51 | 83 | 6  | 25 | 29.10 | 30.14 | 04    | BKN   | 003 | 4.00 | HZ FU | 44   | 39 | 42 | 83 | 0  | 00 | 29.10 | 30.14 | 04    | OVC   | 036 | 4.00 | BR    | 51    | 49 | 50 | 92 | 5  | 04 | 29.09 | 30.13 | 07    | SCT   | 003 | 4.00 | BR FU | 42   | 38 | 40 | 85 | 0  | 00 | 29.15 | 30.20 | 07    | BKN   | 080 | 2.00 | BR    | 49    | 47 | 48 | 93 | 0  | 00 | 29.13 | 30.17 | 10    | SCT   | 003 | 2.50 | BR FU | 55   | 42    | 49 | 62 | 0  | 00 | 29.18 | 30.23 | 10    | OVC   | 060 | 4.00 | BR    | 52    | 48 | 50 | 86 | 0  | 00 | 29.18 | 30.22 | 13    | SCT   | 003 | 2.00 | BR FU | 71   | 41 | 55 | 34 | 0  | 00 | 29.11 | 30.14 | 13    | BKN   | 055 | 8.00 |      | 62    | 52 | 56 | 70 | 3  | 21 | 29.14 | 30.18 | 16    | FEW   | 250 | 7.00 |      | 77    | 36 | 56 | 23 | 9  | 24 | 29.03 | 30.06 | 16    | SCT   | 050 | 10.00 |      | 67   | 50    | 58 | 55 | 5  | VR | 29.12 | 30.15 | 19    | FEW   | 020 | 10.00 |       | 65    | 37 | 51 | 36 | 5  | 19 | 29.05 | 30.09 | 19    | BKN   | 055 | 10.00 |       | 61   | 49    | 55 | 65 | 0  | 00 | 29.14 | 30.19 | 22    | FEW   | 030 | 10.00 |      | 58    | 38 | 48 | 48 | 8  | 23 | 29.02 | 30.06 | 22    | SCT   | 050 | 10.00 |       | 56   | 49    | 52 | 77 | 0  | 00 | 29.14 | 30.18 |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| <b>SUNRISE: 0713</b> |           |                         |                       |         | <b>NOV 16</b>     |           |          |                            |             | <b>SUNRISE: 0719</b>     |         |                          |          |            | <b>NOV 22</b>        |                         |                       |         |                   | <b>SUNSET: 1725</b> |                            |             |                          |         |                     |                          |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | BKN       | 060                     | 8.00                  |         | 46                | 37        | 42       | 71                         | 0           | 00                       | 28.90   | 29.94                    | 01       | CLR        | NC                   | 10.00                   |                       |         | 36                | 21                  | 31                         | 55          | 6                        | 35      | 29.18               | 30.24                    | 04  | CLR | NC    | 7.00  |       | 42 | 36 | 39 | 79 | 0  | 00    | 28.92 | 29.97 | 04  | CLR | NC    | 10.00 |    | 34 | 21 | 29 | 59 | 5  | 05    | 29.19 | 30.26 | 07  | SCT | 250   | 8.00  |       | 40 | 35 | 38 | 83 | 3  | 19    | 28.93 | 29.98 | 07  | FEW | 050   | 10.00 |     | 33 | 21 | 29 | 61 | 8  | 02    | 29.22 | 30.29 | 10  | SCT | 026  | 3.00  | HZ FU | 55 | 41 | 48 | 59 | 8  | 25    | 28.97 | 30.01 | 10  | BKN | 250   | 10.00 |    | 40 | 20 | 33 | 45 | 8  | 03    | 29.25 | 30.32 | 13  | CLR | NC    | 7.00  |       | 66 | 38 | 52 | 36 | 7  | 20    | 28.94 | 29.98 | 13  | BKN | 250  | 10.00 |    | 50 | 19 | 38 | 29 | 0  | 00    | 29.22 | 30.28 | 16  | CLR | NC   | 10.00 |       | 68 | 33 | 51 | 27 | 3  | 20    | 28.92 | 29.96 | 16  | BKN | 250   | 5.00  | HZ FU | 55 | 17 | 40 | 22 | 3  | 29    | 29.18 | 30.24 | 19  | CLR | NC    | 10.00 |       | 60 | 35 | 48 | 39 | 0  | 00    | 28.94 | 29.99 | 19  | BKN | 250   | 3.00  | HZ FU | 49 | 21 | 38 | 33 | 3  | 07    | 29.18 | 30.25 | 22  | CLR | NC    | 10.00 |       | 51 | 36 | 44 | 56 | 0  | 00    | 28.98 | 30.02 | 22  | BKN | 250   | 6.00  | HZ FU | 44 | 24 | 36 | 45 | 0  | 00    | 29.18 | 30.25                | <b>SUNRISE: 0714</b> |  |  |  |               | <b>NOV 17</b> |  |  |  |                      | <b>SUNRISE: 0720</b> |  |  |  |               | <b>NOV 23</b> |  |  |  |                     | <b>SUNSET: 1725</b> |  |  |  |    | 01  | CLR | NC   | 10.00 |       | 47 | 35 | 42 | 63 | 0  | 00    | 28.99 | 30.03 | 01  | OVC | 050  | 10.00 | HZ FU | 41 | 26 | 35 | 55 | 0  | 00    | 29.18 | 30.23 | 04    | CLR | NC   | 10.00 |      | 41    | 34 | 38 | 76 | 0  | 00    | 29.03 | 30.07 | 04    | BKN | 050  | 10.00 | HZ FU | 42 | 27 | 36 | 55 | 6  | 01    | 29.16 | 30.22 | 07    | CLR | NC   | 10.00 |      | 38    | 33 | 36 | 83 | 3  | 05    | 29.06 | 30.11 | 07    | FEW | 100  | 10.00 | HZ FU | 41 | 29 | 36 | 62 | 5  | 03    | 29.19 | 30.25 | 10    | CLR | NC   | 8.00  |      | 54    | 38 | 46 | 55 | 3  | 03    | 29.11 | 30.15 | 10    | BKN | 250  | 10.00 |       | 46 | 29 | 39 | 51 | 0  | 00    | 29.21 | 30.27 | 13    | CLR | NC   | 10.00 |      | 70    | 38 | 54 | 31 | 0  | 00    | 29.06 | 30.10 | 13    | OVC | 250  | 5.00 | HZ FU | 61 | 23 | 45 | 23 | 0  | 00    | 29.12 | 30.16 | 16    | FEW | 023  | 6.00 | HZ FU | 74    | 41 | 56 | 31 | 0  | 00    | 29.02 | 30.06 | 16    | SCT | 250   | 7.00 | FU    | 66    | 24 | 47 | 20 | 9  | 16    | 29.04 | 30.08 | 19    | CLR | NC    | 10.00 |       | 64    | 42 | 53 | 45 | 0  | 00    | 29.05 | 30.09 | 19    | BKN | 150   | 10.00 |       | 59    | 33 | 47 | 38 | 5  | 22    | 29.05 | 30.09 | 22    | FEW | 000   | 6.00 |       | 54    | 41 | 48 | 62 | 0  | 00    | 29.07 | 30.11 | 22    | OVC | 055   | 10.00 | -RA   | 58    | 41 | 50 | 53 | 6  | 21    | 29.10 | 30.14 | <b>SUNRISE: 0715</b> |                      |  |  |  | <b>NOV 18</b> |               |  |  |  | <b>SUNRISE: 0721</b> |                      |  |  |  | <b>NOV 24</b> |               |  |  |  | <b>SUNSET: 1724</b> |                     |  |  |  | 01 | SCT | 003 | 6.00 | HZ FU | 48    | 40 | 44 | 74 | 0  | 00 | 29.09 | 30.12 | 01    | OVC | 043 | 8.00 | -RA   | 54    | 49 | 51 | 83 | 6  | 25 | 29.10 | 30.14 | 04    | BKN   | 003 | 4.00 | HZ FU | 44   | 39    | 42 | 83 | 0  | 00 | 29.10 | 30.14 | 04    | OVC   | 036 | 4.00 | BR    | 51    | 49 | 50 | 92 | 5  | 04 | 29.09 | 30.13 | 07    | SCT   | 003 | 4.00 | BR FU | 42   | 38    | 40 | 85 | 0  | 00 | 29.15 | 30.20 | 07    | BKN   | 080 | 2.00 | BR    | 49    | 47 | 48 | 93 | 0  | 00 | 29.13 | 30.17 | 10    | SCT   | 003 | 2.50 | BR FU | 55   | 42    | 49 | 62 | 0  | 00 | 29.18 | 30.23 | 10    | OVC   | 060 | 4.00 | BR    | 52    | 48 | 50 | 86 | 0  | 00 | 29.18 | 30.22 | 13    | SCT   | 003 | 2.00 | BR FU | 71   | 41    | 55 | 34 | 0  | 00 | 29.11 | 30.14 | 13    | BKN   | 055 | 8.00 |      | 62    | 52 | 56 | 70 | 3  | 21 | 29.14 | 30.18 | 16    | FEW   | 250 | 7.00 |      | 77    | 36 | 56 | 23 | 9  | 24 | 29.03 | 30.06 | 16    | SCT   | 050 | 10.00 |      | 67    | 50    | 58 | 55 | 5  | VR | 29.12 | 30.15 | 19    | FEW   | 020 | 10.00 |       | 65    | 37 | 51 | 36 | 5  | 19 | 29.05 | 30.09 | 19    | BKN   | 055 | 10.00 |       | 61    | 49    | 55 | 65 | 0  | 00 | 29.14 | 30.19 | 22    | FEW   | 030 | 10.00 |      | 58    | 38 | 48 | 48 | 8  | 23 | 29.02 | 30.06 | 22    | SCT   | 050 | 10.00 |       | 56    | 49    | 52 | 77 | 0  | 00 | 29.14 | 30.18 |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| <b>SUNRISE: 0714</b> |           |                         |                       |         | <b>NOV 17</b>     |           |          |                            |             | <b>SUNRISE: 0720</b>     |         |                          |          |            | <b>NOV 23</b>        |                         |                       |         |                   | <b>SUNSET: 1725</b> |                            |             |                          |         |                     |                          |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | CLR       | NC                      | 10.00                 |         | 47                | 35        | 42       | 63                         | 0           | 00                       | 28.99   | 30.03                    | 01       | OVC        | 050                  | 10.00                   | HZ FU                 | 41      | 26                | 35                  | 55                         | 0           | 00                       | 29.18   | 30.23               | 04                       | CLR | NC  | 10.00 |       | 41    | 34 | 38 | 76 | 0  | 00 | 29.03 | 30.07 | 04    | BKN | 050 | 10.00 | HZ FU | 42 | 27 | 36 | 55 | 6  | 01 | 29.16 | 30.22 | 07    | CLR | NC  | 10.00 |       | 38    | 33 | 36 | 83 | 3  | 05 | 29.06 | 30.11 | 07    | FEW | 100 | 10.00 | HZ FU | 41  | 29 | 36 | 62 | 5  | 03 | 29.19 | 30.25 | 10    | CLR | NC  | 8.00 |       | 54    | 38 | 46 | 55 | 3  | 03 | 29.11 | 30.15 | 10    | BKN | 250 | 10.00 |       | 46 | 29 | 39 | 51 | 0  | 00 | 29.21 | 30.27 | 13    | CLR | NC  | 10.00 |       | 70    | 38 | 54 | 31 | 0  | 00 | 29.06 | 30.10 | 13    | OVC | 250 | 5.00 | HZ FU | 61 | 23 | 45 | 23 | 0  | 00 | 29.12 | 30.16 | 16    | FEW | 023 | 6.00 | HZ FU | 74    | 41 | 56 | 31 | 0  | 00 | 29.02 | 30.06 | 16    | SCT | 250 | 7.00  | FU    | 66    | 24 | 47 | 20 | 9  | 16 | 29.04 | 30.08 | 19    | CLR | NC  | 10.00 |       | 64    | 42 | 53 | 45 | 0  | 00 | 29.05 | 30.09 | 19    | BKN | 150 | 10.00 |       | 59    | 33 | 47 | 38 | 5  | 22 | 29.05 | 30.09 | 22    | FEW | 000 | 6.00  |       | 54    | 41 | 48 | 62 | 0  | 00 | 29.07 | 30.11 | 22    | OVC | 055 | 10.00 | -RA   | 58    | 41 | 50 | 53 | 6  | 21 | 29.10 | 30.14 | <b>SUNRISE: 0715</b> |                      |  |  |  | <b>NOV 18</b> |               |  |  |  | <b>SUNRISE: 0721</b> |                      |  |  |  | <b>NOV 24</b> |               |  |  |  | <b>SUNSET: 1724</b> |                     |  |  |  | 01 | SCT | 003 | 6.00 | HZ FU | 48    | 40 | 44 | 74 | 0  | 00 | 29.09 | 30.12 | 01    | OVC | 043 | 8.00 | -RA   | 54    | 49 | 51 | 83 | 6  | 25 | 29.10 | 30.14 | 04    | BKN   | 003 | 4.00 | HZ FU | 44   | 39    | 42 | 83 | 0  | 00 | 29.10 | 30.14 | 04    | OVC   | 036 | 4.00 | BR    | 51    | 49 | 50 | 92 | 5  | 04 | 29.09 | 30.13 | 07    | SCT   | 003 | 4.00 | BR FU | 42   | 38    | 40 | 85 | 0  | 00 | 29.15 | 30.20 | 07    | BKN   | 080 | 2.00 | BR    | 49    | 47 | 48 | 93 | 0  | 00 | 29.13 | 30.17 | 10    | SCT   | 003 | 2.50 | BR FU | 55   | 42    | 49 | 62 | 0  | 00 | 29.18 | 30.23 | 10    | OVC   | 060 | 4.00 | BR    | 52    | 48 | 50 | 86 | 0  | 00 | 29.18 | 30.22 | 13    | SCT   | 003 | 2.00 | BR FU | 71   | 41    | 55 | 34 | 0  | 00 | 29.11 | 30.14 | 13    | BKN   | 055 | 8.00 |      | 62    | 52 | 56 | 70 | 3  | 21 | 29.14 | 30.18 | 16    | FEW   | 250 | 7.00 |      | 77    | 36    | 56 | 23 | 9  | 24 | 29.03 | 30.06 | 16    | SCT   | 050 | 10.00 |      | 67    | 50    | 58 | 55 | 5  | VR | 29.12 | 30.15 | 19    | FEW   | 020 | 10.00 |       | 65    | 37    | 51 | 36 | 5  | 19 | 29.05 | 30.09 | 19    | BKN   | 055 | 10.00 |       | 61    | 49    | 55 | 65 | 0  | 00 | 29.14 | 30.19 | 22    | FEW   | 030 | 10.00 |      | 58    | 38    | 48 | 48 | 8  | 23 | 29.02 | 30.06 | 22    | SCT   | 050 | 10.00 |       | 56    | 49    | 52 | 77 | 0  | 00 | 29.14 | 30.18 |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| <b>SUNRISE: 0715</b> |           |                         |                       |         | <b>NOV 18</b>     |           |          |                            |             | <b>SUNRISE: 0721</b>     |         |                          |          |            | <b>NOV 24</b>        |                         |                       |         |                   | <b>SUNSET: 1724</b> |                            |             |                          |         |                     |                          |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |       |     |     |       |       |       |    |    |    |    |    |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |       |      |      |       |    |    |    |    |       |       |       |       |     |       |       |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |       |     |       |      |       |    |    |    |    |    |       |       |       |       |     |       |       |      |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |      |      |       |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |       |    |    |    |    |    |    |       |       |       |     |     |       |      |    |    |    |    |    |    |       |       |       |     |     |       |       |     |    |    |    |    |    |       |       |       |                      |  |  |  |  |               |  |  |  |  |                      |  |  |  |  |               |  |  |  |  |                     |  |  |  |  |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |     |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |    |    |    |    |    |   |    |       |       |    |     |     |      |       |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |      |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |    |     |     |       |  |    |    |    |    |   |    |       |       |
| 01                   | SCT       | 003                     | 6.00                  | HZ FU   | 48                | 40        | 44       | 74                         | 0           | 00                       | 29.09   | 30.12                    | 01       | OVC        | 043                  | 8.00                    | -RA                   | 54      | 49                | 51                  | 83                         | 6           | 25                       | 29.10   | 30.14               | 04                       | BKN | 003 | 4.00  | HZ FU | 44    | 39 | 42 | 83 | 0  | 00 | 29.10 | 30.14 | 04    | OVC | 036 | 4.00  | BR    | 51 | 49 | 50 | 92 | 5  | 04 | 29.09 | 30.13 | 07    | SCT | 003 | 4.00  | BR FU | 42    | 38 | 40 | 85 | 0  | 00 | 29.15 | 30.20 | 07    | BKN | 080 | 2.00  | BR    | 49  | 47 | 48 | 93 | 0  | 00 | 29.13 | 30.17 | 10    | SCT | 003 | 2.50 | BR FU | 55    | 42 | 49 | 62 | 0  | 00 | 29.18 | 30.23 | 10    | OVC | 060 | 4.00  | BR    | 52 | 48 | 50 | 86 | 0  | 00 | 29.18 | 30.22 | 13    | SCT | 003 | 2.00  | BR FU | 71    | 41 | 55 | 34 | 0  | 00 | 29.11 | 30.14 | 13    | BKN | 055 | 8.00 |       | 62 | 52 | 56 | 70 | 3  | 21 | 29.14 | 30.18 | 16    | FEW | 250 | 7.00 |       | 77    | 36 | 56 | 23 | 9  | 24 | 29.03 | 30.06 | 16    | SCT | 050 | 10.00 |       | 67    | 50 | 58 | 55 | 5  | VR | 29.12 | 30.15 | 19    | FEW | 020 | 10.00 |       | 65    | 37 | 51 | 36 | 5  | 19 | 29.05 | 30.09 | 19    | BKN | 055 | 10.00 |       | 61    | 49 | 55 | 65 | 0  | 00 | 29.14 | 30.19 | 22    | FEW | 030 | 10.00 |       | 58    | 38 | 48 | 48 | 8  | 23 | 29.02 | 30.06 | 22    | SCT | 050 | 10.00 |       | 56    | 49 | 52 | 77 | 0  | 00 | 29.14 | 30.18 |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |      |       |    |    |    |    |    |       |       |       |       |     |      |      |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |       |     |       |      |       |       |    |    |    |    |       |       |       |       |     |       |       |       |       |    |    |    |    |       |       |       |                      |                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |       |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |      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|                      |  |  |  |               |               |  |  |  |                      |                      |  |  |  |               |               |  |  |  |                     |                     |  |  |  |    |     |     |      |       |    |    |    |    |    |    |       |       |       |     |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |       |    |    |    |    |       |       |       |       |     |      |       |       |    |    |    |    |    |       |       |       |       |     |      |       |      |    |    |    |    |    |       |       |       |       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OBSERVATIONS AT 3-HOURLY INTERVALS

Table with columns: HOUR (LST), SKY COVER, CEILING 100's of FT., VISIBILITY (MILES), WEATHER, TEMPERATURE °F (DRY BULB, DEW POINT, WET BULB), RELATIVE HUMIDITY (PCT), WIND (SPEED (MPH), DIRECTION Tens of Deg), PRESSURE (INCHES, HG) (STATION, SEA LEVEL). Rows include dates NOV 25, NOV 26, NOV 27, NOV 28, NOV 29, NOV 30.

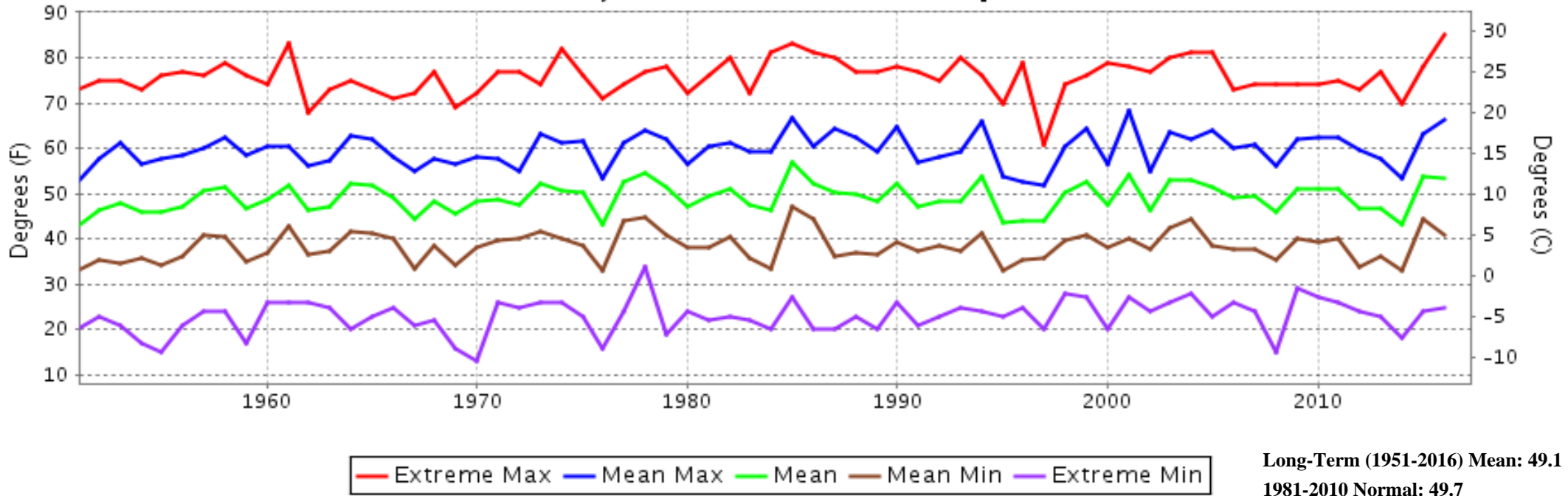
Table with columns: HOUR (LST), SKY COVER, CEILING 100's of FT., VISIBILITY (MILES), WEATHER, TEMPERATURE °F (DRY BULB, DEW POINT, WET BULB), RELATIVE HUMIDITY (PCT), WIND (SPEED (MPH), DIRECTION Tens of Deg), PRESSURE (INCHES, HG) (STATION, SEA LEVEL). This table is currently empty.

**3-HOURLY OBSERVATION NOTES**  
Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8  
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.  
& = Original observation contained additional weather elements.  
See page 3 for additional notes.

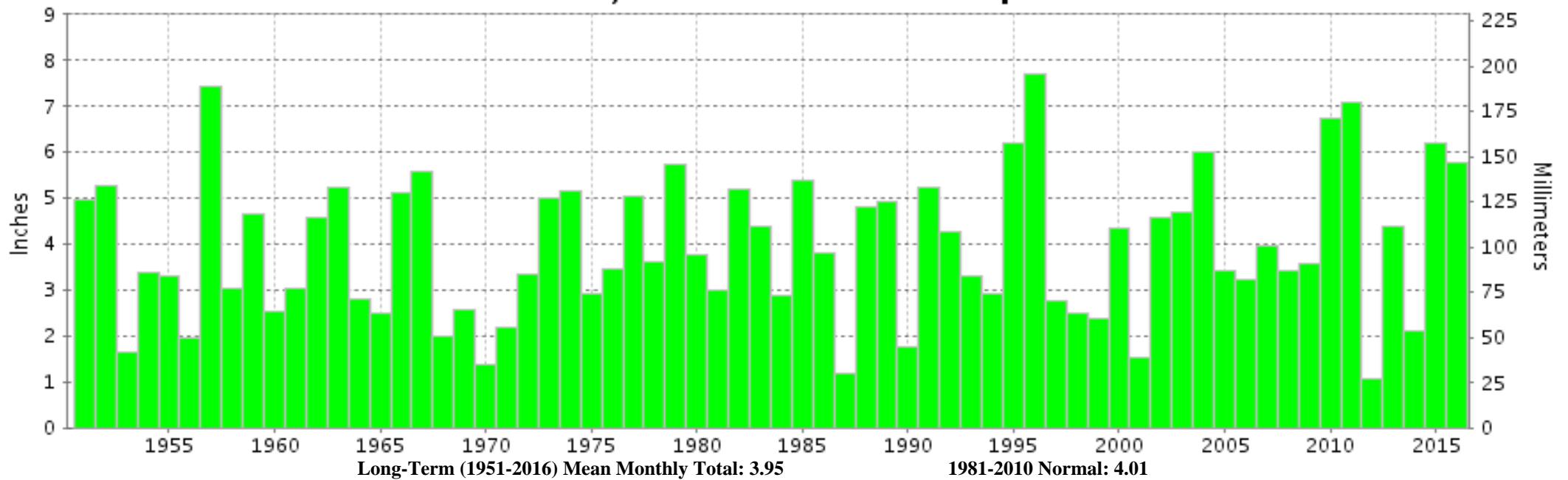
**SUMMARY BY HOUR**

Table with columns: HOUR (LST), DRY BULB, DEW POINT, WET BULB, RELATIVE HUMIDITY, PRESSURE (Inches, HG) (STATION, SEA LEVEL), VISIBILITY (Miles), WIND SPEED (MPH), RESULTANT WIND (MPH) (SPEED, DIRECTION). Rows show hourly averages from 01 to 24.

## KNOXVILLE, TN NOVEMBER Temperatures



## KNOXVILLE, TN NOVEMBER Precipitation





NOVEMBER 2016

KNOXVILLE, TN

## LOCAL CLIMATOLOGICAL DATA

### NOAA, National Centers for Environmental Information

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Centers for Environmental Information (NCEI), Asheville, North Carolina 28801.*

A handwritten signature in black ink that reads "Margarita FieSS".

**DIRECTOR (ACTING)**

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