

**HAVANA/JOSE MARTI CU**

Latitude = 22.98 N

WMO No. 782240

Longitude = 82.40 W

Elevation = 194 feet

Period of Record = 1973 to 1996

Average Pressure = 29.73 inches Hg

**Design Criteria Data**

|                                                  | <b>Design Value</b> | Mean Coincident (Average) Values |                         |                        |                             |
|--------------------------------------------------|---------------------|----------------------------------|-------------------------|------------------------|-----------------------------|
|                                                  |                     | Wet Bulb Temperature (°F)        | Humidity Ratio (gr/lb)  | Wind Speed (mph)       | Prevailing Direction (NSEW) |
| <b>Dry Bulb Temperature (T)</b>                  | <b>(°F)</b>         |                                  |                         |                        |                             |
| Median of Extreme Highs                          | 93                  | 79                               | 126                     | 9.2                    | E                           |
| 0.4% Occurrence                                  | 91                  | 78                               | 127                     | 10.2                   | S                           |
| 1.0% Occurrence                                  | 90                  | 78                               | 127                     | 10.3                   | E                           |
| 2.0% Occurrence                                  | 90                  | 78                               | 127                     | 10.3                   | E                           |
| Mean Daily Range                                 | 15                  | -                                | -                       | -                      | -                           |
| 97.5% Occurrence                                 | 61                  | 58                               | 68                      | 4.5                    | N                           |
| 99.0% Occurrence                                 | 57                  | 55                               | 61                      | 2.6                    | NNE                         |
| 99.6% Occurrence                                 | 54                  | 53                               | 57                      | 1.4                    | NNE                         |
| Median of Extreme Lows                           | 48                  | 47                               | 47                      | 0.1                    | SW                          |
|                                                  | <b>Design Value</b> | Mean Coincident (Average) Values |                         |                        |                             |
|                                                  |                     | Dry Bulb Temperature (°F)        | Humidity Ratio (gr/lb)  | Wind Speed (mph)       | Prevailing Direction (NSEW) |
| <b>Wet Bulb Temperature (T<sub>wb</sub>)</b>     | <b>(°F)</b>         |                                  |                         |                        |                             |
| Median of Extreme Highs                          | 83                  | 89                               | 154                     | 10.4                   | NE                          |
| 0.4% Occurrence                                  | 81                  | 88                               | 145                     | 10.4                   | ENE                         |
| 1.0% Occurrence                                  | 80                  | 87                               | 140                     | 10.3                   | NNE                         |
| 2.0% Occurrence                                  | 80                  | 87                               | 140                     | 10.3                   | NNE                         |
|                                                  | <b>Design Value</b> | Mean Coincident (Average) Values |                         |                        |                             |
|                                                  |                     | Dry Bulb Temperature (°F)        | Vapor Pressure (in. Hg) | Wind Speed (mph)       | Prevailing Direction (NSEW) |
| <b>Humidity Ratio (HR)</b>                       | <b>(gr/lb)</b>      |                                  |                         |                        |                             |
| Median of Extreme Highs                          | 169                 | 85                               | 1.12                    | 11.5                   | NNE                         |
| 0.4% Occurrence                                  | 151                 | 86                               | 0.99                    | 9.9                    | ENE                         |
| 1.0% Occurrence                                  | 150                 | 86                               | 0.99                    | 9.3                    | ENE                         |
| 2.0% Occurrence                                  | 142                 | 84                               | 0.94                    | 8.5                    | ENE                         |
| <b>Air Conditioning/<br/>Humid Area Criteria</b> | <b># of Hours</b>   | T ≥ 93°F                         | T ≥ 80°F                | T <sub>wb</sub> ≥ 73°F | T <sub>wb</sub> ≥ 67°F      |
|                                                  |                     | 9                                | 2661                    | 4019                   | 6864                        |

**Other Site Data**

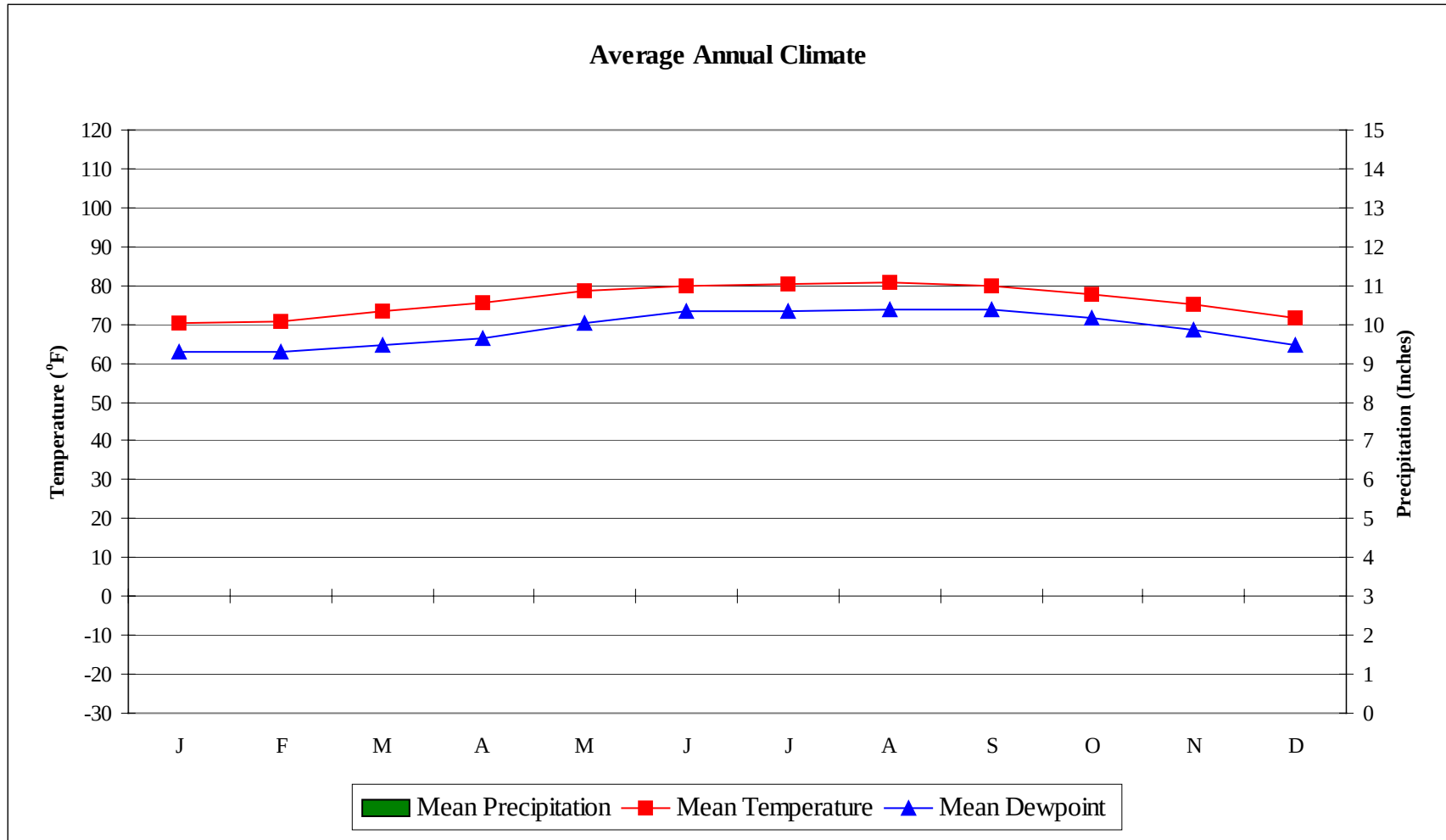
| Weather Region                                   | Rain Rate<br>100 Year Recurrence<br>(in./hr) | Basic Wind Speed<br>3 sec gust @ 33 ft<br>50 Year Recurrence (mph) | Ventilation Cooling Load Index<br>(Ton-hr/cfm/yr) Base 75°F-RH 60%<br>Latent + Sensible |
|--------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 10                                               | N/A                                          | N/A                                                                | 9.4 + 2.6                                                                               |
| Ground Water Temperature (°F)<br>50 Foot Depth * | Frost Depth<br>50 Year Recurrence<br>(in.)   | Ground Snow Load<br>50 Year Recurrence<br>(lb/ft <sup>2</sup> )    | Average Annual<br>Freeze-Thaw Cycles<br>(#)                                             |
| 78.6                                             | N/A                                          | N/A                                                                | 0                                                                                       |

\*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

HAVANA/JOSE MARTI

CU

WMO No. 782240



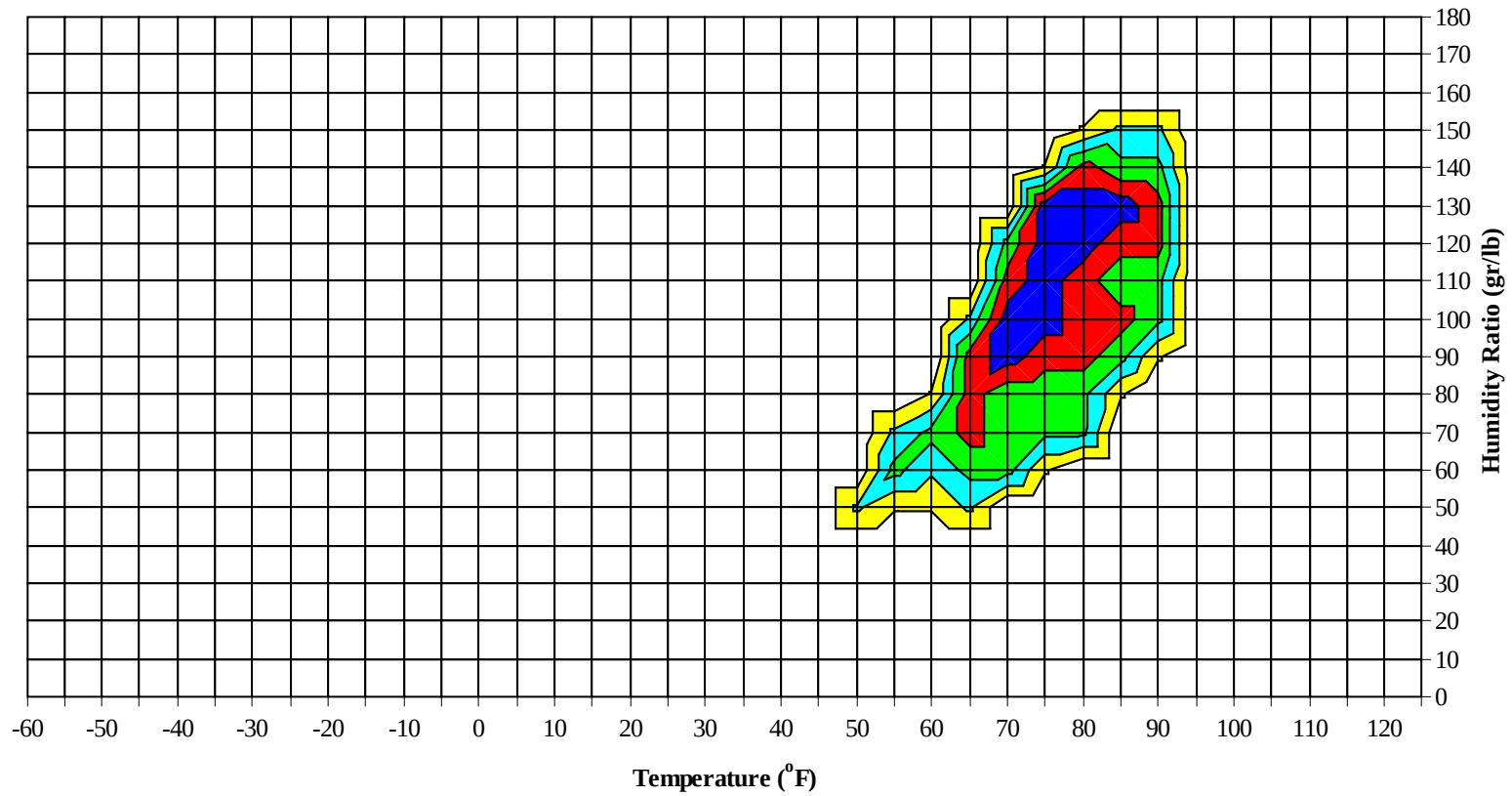
No Precipitation Data Available

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WMO No. 782240

### Long Term Psychrometric Summary



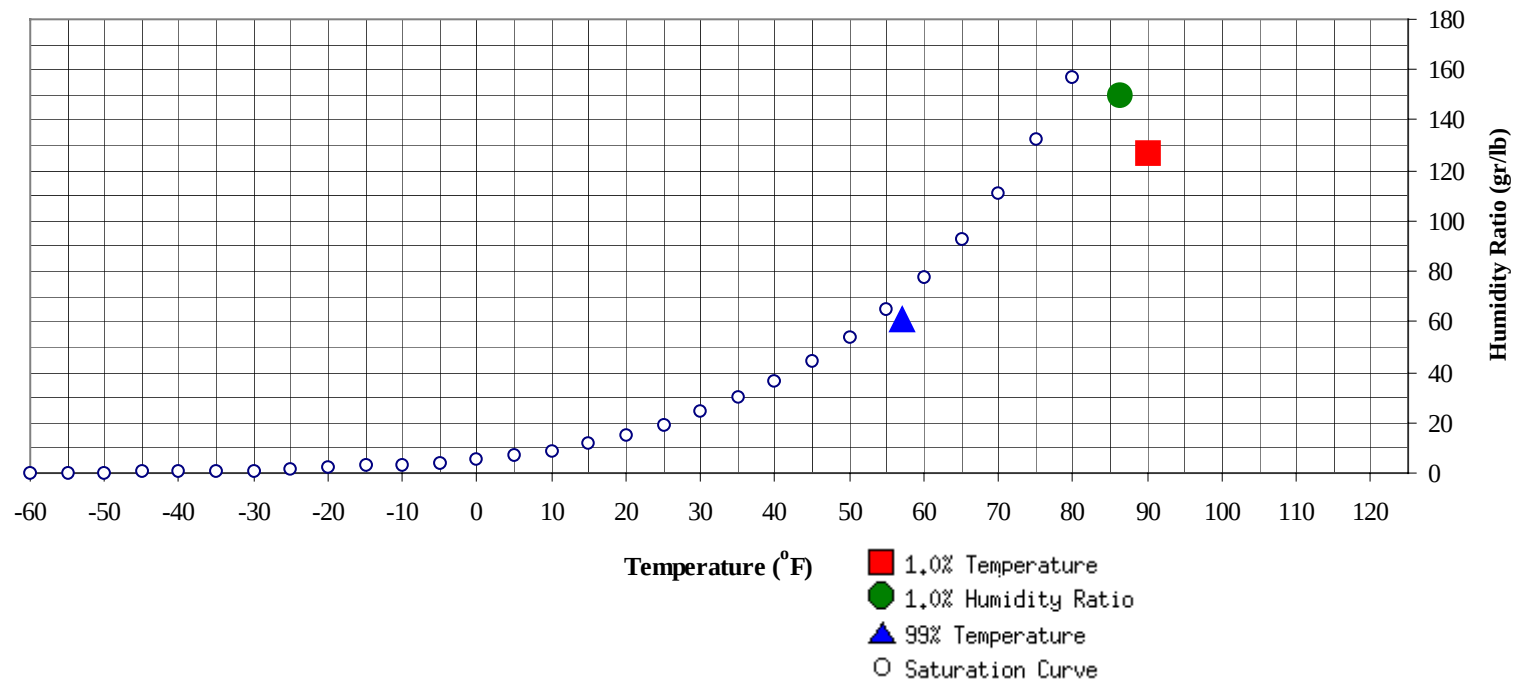
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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CU

WMO No. 782240

## Psychrometric Summary of Peak Design Values



| 99% Dry Bulb | (°F) | MCHR<br>(gr/lb) | Enthalpy<br>(btu/lb) | 1.0% Humidity<br>Ratio | (gr/lb) | MCDB<br>(°F) | MCWB<br>(°F) | MC Dewpt<br>(°F) | Enthalpy<br>(btu/lb) |
|--------------|------|-----------------|----------------------|------------------------|---------|--------------|--------------|------------------|----------------------|
|              | 57   | 61.1            | 23.2                 |                        | 149.8   | 86.3         | 80.8         | 78.8             | 44.2                 |

| 1.0% Dry Bulb | (°F) | MCHR<br>(gr/lb) | MCWB<br>(°F) | Enthalpy<br>(btu/lb) |
|---------------|------|-----------------|--------------|----------------------|
|               | 90   | 126.7           | 78.1         | 41.5                 |

HAVANA/JOSE MARTI

CU

WMO No. 782240

**Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)**

Period of Record = 1973 to 1996

| Temperature<br>Range<br>(°F) | January             |                |                |              |                          | February            |                |                |              |                          | March               |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 90 / 94                      |                     |                |                |              |                          |                     | 0              |                | 0            | 73.0                     |                     | 2              |                | 2            | 72.7                     |
| 85 / 89                      | 0                   | 5              | 0              | 5            | 73.4                     |                     | 11             | 1              | 12           | 72.9                     | 0                   | 31             | 2              | 33           | 72.9                     |
| 80 / 84                      | 0                   | 64             | 9              | 73           | 71.8                     | 0                   | 62             | 14             | 76           | 71.8                     | 0                   | 90             | 26             | 116          | 71.7                     |
| 75 / 79                      | 3                   | 75             | 49             | 127          | 69.9                     | 4                   | 65             | 48             | 117          | 69.8                     | 14                  | 75             | 77             | 167          | 70.2                     |
| 70 / 74                      | 59                  | 64             | 94             | 216          | 67.5                     | 62                  | 56             | 84             | 202          | 67.3                     | 93                  | 36             | 87             | 216          | 67.8                     |
| 65 / 69                      | 76                  | 26             | 49             | 151          | 64.0                     | 62                  | 20             | 38             | 120          | 63.8                     | 68                  | 11             | 33             | 112          | 64.1                     |
| 60 / 64                      | 64                  | 11             | 34             | 109          | 59.8                     | 59                  | 10             | 30             | 99           | 59.5                     | 51                  | 4              | 18             | 73           | 59.6                     |
| 55 / 59                      | 27                  | 3              | 12             | 42           | 55.1                     | 25                  | 1              | 8              | 34           | 54.9                     | 17                  | 0              | 3              | 20           | 55.6                     |
| 50 / 54                      | 12                  | 0              | 2              | 14           | 51.0                     | 10                  | 0              | 1              | 11           | 50.9                     | 4                   | 0              | 1              | 5            | 51.7                     |
| 45 / 49                      | 5                   |                | 0              | 5            | 46.2                     | 2                   |                | 0              | 2            | 46.2                     | 0                   |                | 0              | 0            | 46.0                     |
| 40 / 44                      | 1                   |                | 0              | 1            | 42.4                     | 0                   |                |                | 0            | 41.0                     |                     |                | 0              | 0            |                          |
| 35 / 39                      |                     |                |                |              |                          | 0                   |                |                | 0            | 38.7                     |                     |                |                |              |                          |

**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

HAVANA/JOSE MARTI

CU

WMO No. 782240

**Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**

Period of Record = 1973 to 1996

| Temperature<br>Range<br>(°F) | April               |                |                |              |                          | May                 |                |                |              |                          | June                |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          | 0                   |                |                | 0            | 76.8                     | 0                   |                |                | 0            | 81.0                     |
| 90 / 94                      |                     | 10             | 0              | 10           | 74.5                     | 27                  | 2              | 29             | 76.7         |                          | 0                   | 44             | 2              | 46           | 78.2                     |
| 85 / 89                      | 0                   | 52             | 5              | 57           | 73.4                     | 0                   | 83             | 11             | 94           | 75.4                     | 0                   | 101            | 18             | 119          | 77.4                     |
| 80 / 84                      | 1                   | 103            | 37             | 140          | 72.1                     | 7                   | 106            | 59             | 172          | 74.2                     | 18                  | 72             | 72             | 162          | 76.4                     |
| 75 / 79                      | 33                  | 60             | 96             | 188          | 70.6                     | 88                  | 29             | 130            | 247          | 72.8                     | 144                 | 19             | 125            | 288          | 74.2                     |
| 70 / 74                      | 117                 | 15             | 82             | 214          | 68.2                     | 131                 | 4              | 45             | 179          | 69.9                     | 77                  | 4              | 23             | 104          | 71.2                     |
| 65 / 69                      | 53                  | 1              | 16             | 70           | 64.4                     | 18                  | 0              | 1              | 19           | 65.1                     | 1                   |                | 0              | 1            | 65.9                     |
| 60 / 64                      | 30                  | 0              | 4              | 34           | 60.6                     | 4                   | 0              |                | 4            | 61.0                     |                     |                |                |              |                          |
| 55 / 59                      | 6                   | 0              | 0              | 6            | 55.5                     | 0                   |                |                | 0            | 57.5                     |                     |                |                |              |                          |
| 50 / 54                      | 0                   |                |                | 0            | 53.0                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 45 / 49                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 40 / 44                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 35 / 39                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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CU

WMO No. 782240

**Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)****Period of Record = 1973 to 1996**

| Temperature<br>Range<br>(°F) | July                |                |                |              |                          | August              |                |                |              |                          | September           |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 100 / 104                    |                     | 0              |                | 0            | 80.0                     |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      | 0                   | 0              |                | 0            | 80.6                     | 0                   | 0              |                | 0            | 86.5                     |                     |                |                |              |                          |
| 90 / 94                      | 0                   | 67             | 4              | 71           | 78.8                     | 0                   | 74             | 3              | 77           | 78.9                     | 0                   | 42             | 1              | 43           | 78.7                     |
| 85 / 89                      | 0                   | 104            | 24             | 128          | 77.8                     | 0                   | 99             | 22             | 121          | 78.1                     | 0                   | 104            | 10             | 114          | 78.0                     |
| 80 / 84                      | 18                  | 62             | 80             | 159          | 76.9                     | 14                  | 58             | 84             | 157          | 77.1                     | 7                   | 69             | 59             | 136          | 76.8                     |
| 75 / 79                      | 153                 | 12             | 115            | 279          | 74.3                     | 166                 | 14             | 119            | 299          | 74.6                     | 137                 | 22             | 143            | 302          | 74.5                     |
| 70 / 74                      | 77                  | 3              | 26             | 106          | 71.2                     | 67                  | 3              | 20             | 90           | 71.4                     | 96                  | 3              | 26             | 125          | 71.5                     |
| 65 / 69                      | 0                   | 0              | 0              | 0            | 67.2                     | 0                   |                | 0              | 0            | 65.9                     | 0                   |                | 0              | 0            | 67.8                     |
| 60 / 64                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 55 / 59                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 50 / 54                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 45 / 49                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 40 / 44                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 35 / 39                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

**Caution:** This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

HAVANA/JOSE MARTI CU

WMO No. 782240

**Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)**

Period of Record = 1973 to 1996

| Temperature<br>Range<br>(°F) | October             |                |                |              |                          | November            |                |                |              |                          | December            |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|---------------------|----------------|----------------|--------------|--------------------------|
|                              | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 100 / 104                    |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 95 / 99                      |                     |                |                |              |                          |                     |                | 0              | 0            | 81.0                     |                     |                |                |              |                          |
| 90 / 94                      |                     | 9              | 0              | 9            | 78.5                     | 0                   | 1              | 0              | 1            | 77.7                     |                     |                |                |              |                          |
| 85 / 89                      | 0                   | 65             | 3              | 68           | 77.2                     | 0                   | 30             | 2              | 32           | 75.8                     | 0                   | 10             | 0              | 10           | 74.4                     |
| 80 / 84                      | 2                   | 124            | 41             | 167          | 75.4                     | 0                   | 105            | 21             | 126          | 74.1                     | 0                   | 76             | 11             | 87           | 72.6                     |
| 75 / 79                      | 85                  | 44             | 149            | 278          | 73.6                     | 32                  | 77             | 104            | 214          | 72.3                     | 4                   | 86             | 57             | 147          | 70.6                     |
| 70 / 74                      | 132                 | 6              | 52             | 190          | 70.5                     | 124                 | 25             | 83             | 232          | 69.3                     | 90                  | 50             | 105            | 246          | 68.2                     |
| 65 / 69                      | 22                  | 0              | 3              | 25           | 66.0                     | 47                  | 2              | 21             | 70           | 65.0                     | 69                  | 16             | 43             | 128          | 64.1                     |
| 60 / 64                      | 7                   |                | 0              | 7            | 62.3                     | 28                  | 0              | 7              | 35           | 61.5                     | 55                  | 7              | 23             | 85           | 60.1                     |
| 55 / 59                      | 0                   |                |                | 0            | 56.8                     | 7                   |                | 1              | 8            | 56.7                     | 21                  | 2              | 7              | 30           | 55.5                     |
| 50 / 54                      |                     |                |                |              |                          | 1                   |                | 0              | 1            | 51.3                     | 6                   | 0              | 2              | 8            | 51.0                     |
| 45 / 49                      |                     |                |                |              |                          | 0                   |                |                | 0            |                          | 2                   |                | 0              | 2            | 46.4                     |
| 40 / 44                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |
| 35 / 39                      |                     |                |                |              |                          |                     |                |                |              |                          |                     |                |                |              |                          |

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**HAVANA/JOSE MARTI CU**

WMO No. 782240

**Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)**

Period of Record = 1973 to 1996

| Annual Totals                |                     |                |                |              |                          |
|------------------------------|---------------------|----------------|----------------|--------------|--------------------------|
| Temperature<br>Range<br>(°F) | Hour<br>Group (LST) |                |                | Total<br>Obs | M<br>C<br>W<br>B<br>(°F) |
|                              | 01<br>To<br>08      | 09<br>To<br>16 | 17<br>To<br>00 |              |                          |
| 100 / 104                    |                     | 0              |                | 0            | 80.0                     |
| 95 / 99                      | 0                   | 1              | 0              | 1            | 80.4                     |
| 90 / 94                      | 0                   | 272            | 12             | 284          | 78.3                     |
| 85 / 89                      | 1                   | 690            | 96             | 787          | 76.7                     |
| 80 / 84                      | 69                  | 991            | 508            | 1567         | 74.6                     |
| 75 / 79                      | 860                 | 582            | 1201           | 2643         | 72.8                     |
| 70 / 74                      | 1125                | 270            | 736            | 2131         | 69.1                     |
| 65 / 69                      | 417                 | 77             | 209            | 703          | 64.3                     |
| 60 / 64                      | 298                 | 33             | 120            | 450          | 60.0                     |
| 55 / 59                      | 105                 | 6              | 31             | 142          | 55.3                     |
| 50 / 54                      | 35                  | 1              | 6              | 42           | 51.1                     |
| 45 / 49                      | 9                   |                | 1              | 10           | 46.2                     |
| 40 / 44                      | 1                   |                | 0              | 1            | 42.2                     |
| 35 / 39                      | 0                   |                |                | 0            | 38.7                     |

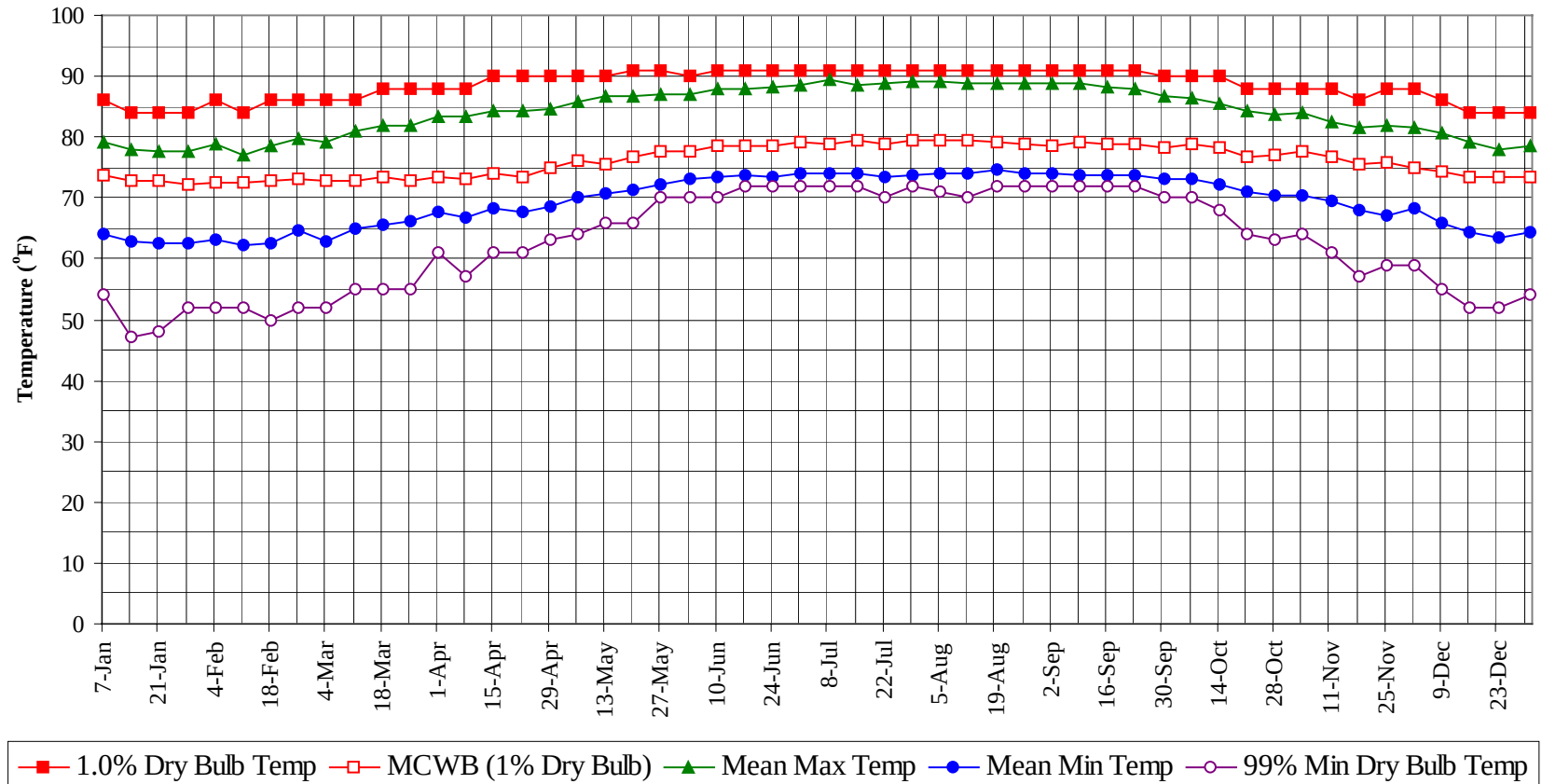
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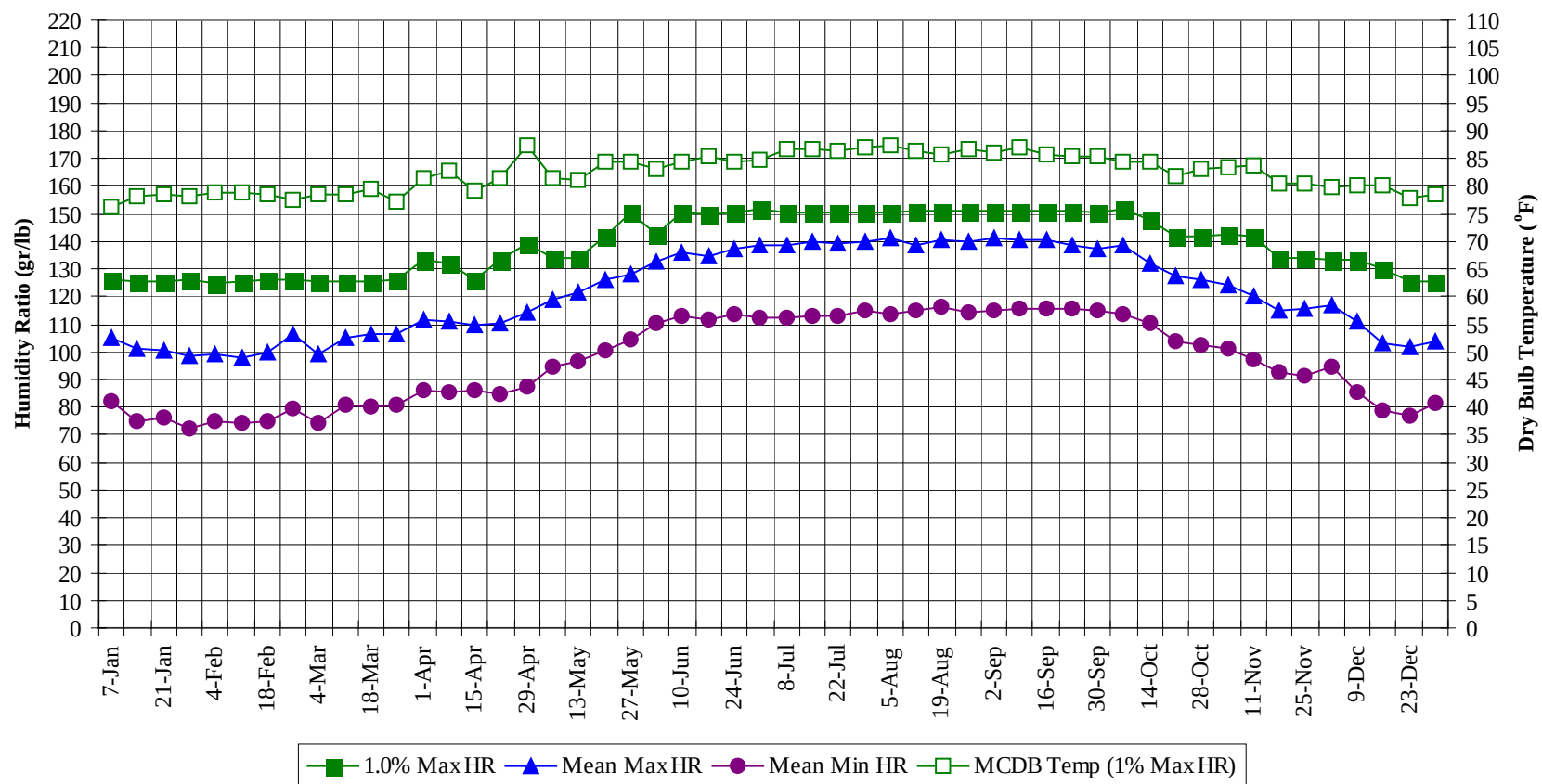
CU

WMO No. 782240

### Annual Summary of Temperatures

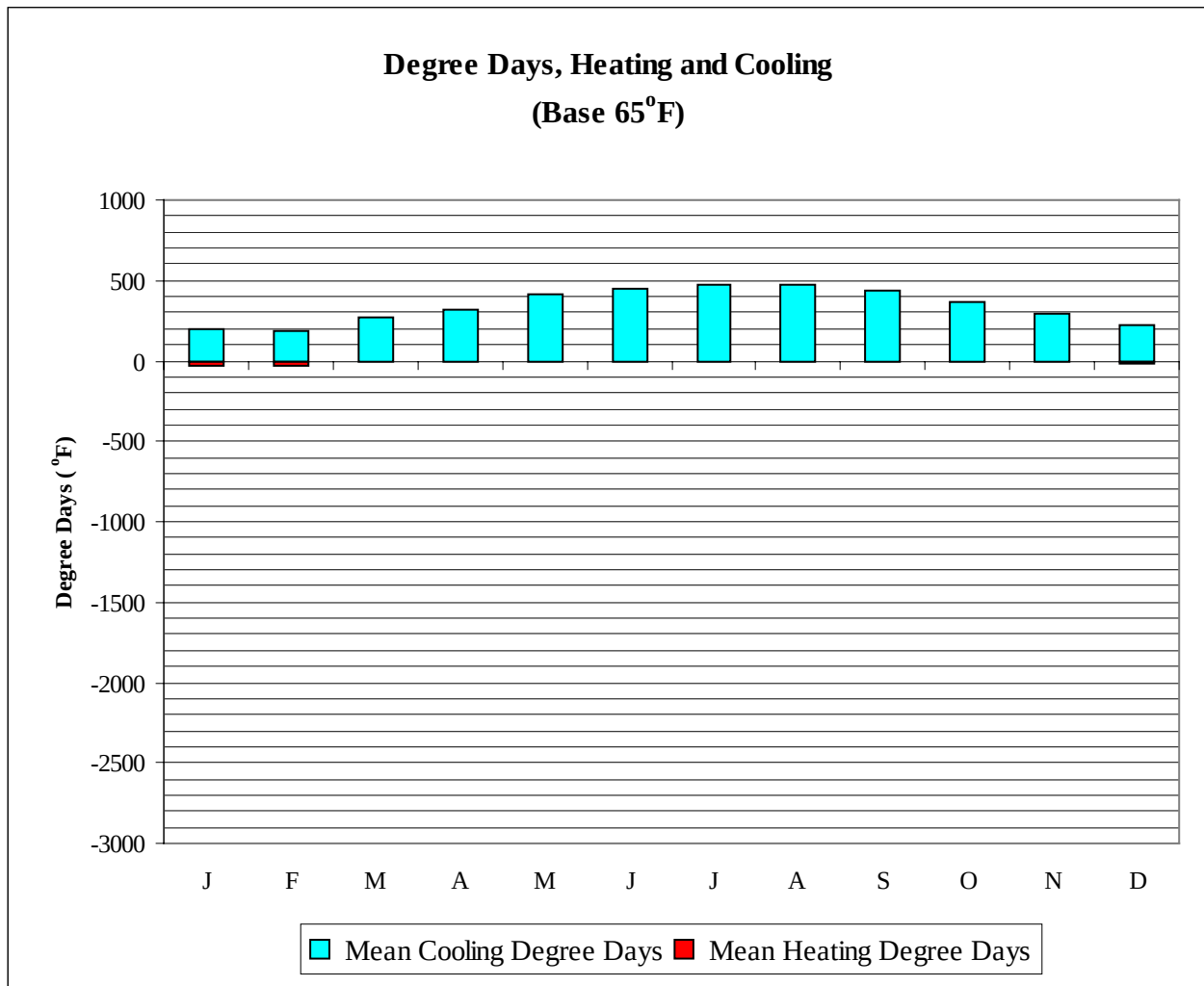


## Long Term Humidity and Dry Bulb Temperature Summary

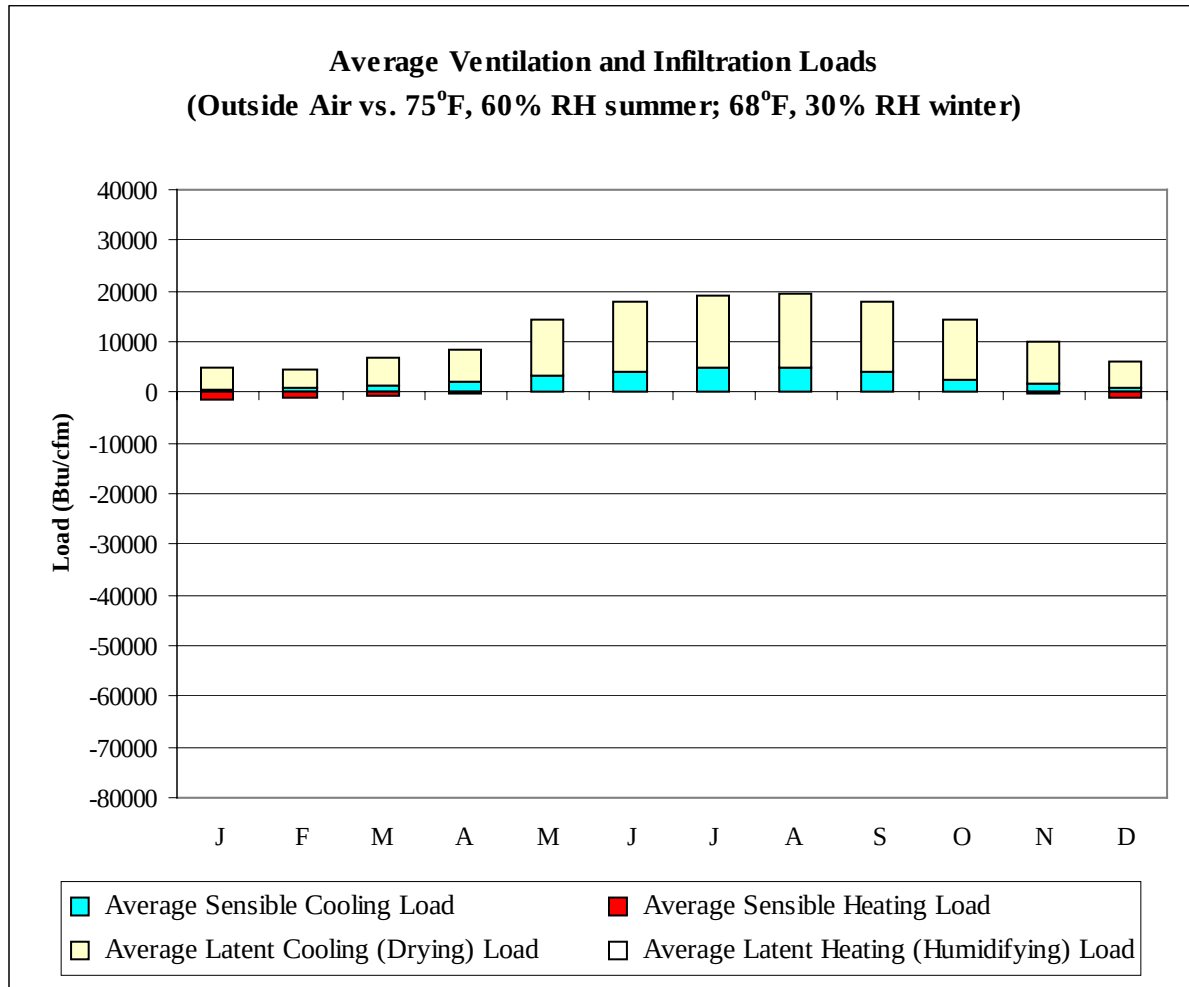


**HAVANA/JOSE MARTI****CU****WMO No. 782240****Long Term Dry Bulb Temperature and Humidity Summary**

| Week Ending | 1.0% Temp (°F) | MCWB @ 1% Temp (°F) | Mean Max Temp (°F) | Mean Min Temp (°F) | 99% Temp (°F) | 1.0% HR (gr/lb) | MCDB @ 1% HR (°F) | Mean Max HR (gr/lb) | Mean Min HR (gr/lb) |
|-------------|----------------|---------------------|--------------------|--------------------|---------------|-----------------|-------------------|---------------------|---------------------|
| 7-Jan       | 86.0           | 73.7                | 79.2               | 64.1               | 54.0          | 126.0           | 76.3              | 105.1               | 82.0                |
| 14-Jan      | 84.0           | 72.8                | 78.0               | 62.7               | 47.0          | 125.3           | 78.3              | 100.9               | 74.6                |
| 21-Jan      | 84.0           | 72.8                | 77.7               | 62.4               | 48.0          | 125.3           | 78.5              | 100.6               | 76.5                |
| 28-Jan      | 84.0           | 72.2                | 77.7               | 62.5               | 52.0          | 126.0           | 78.1              | 98.7                | 72.1                |
| 4-Feb       | 86.0           | 72.4                | 79.0               | 63.1               | 52.0          | 124.6           | 78.9              | 99.4                | 75.0                |
| 11-Feb      | 84.0           | 72.6                | 77.1               | 62.2               | 52.0          | 125.3           | 78.9              | 97.5                | 74.1                |
| 18-Feb      | 86.0           | 72.7                | 78.5               | 62.6               | 50.0          | 126.0           | 78.4              | 99.9                | 74.9                |
| 25-Feb      | 86.0           | 73.1                | 79.8               | 64.6               | 52.0          | 126.0           | 77.6              | 106.4               | 79.7                |
| 4-Mar       | 86.0           | 72.8                | 79.2               | 62.7               | 52.0          | 125.3           | 78.6              | 99.4                | 74.0                |
| 11-Mar      | 86.0           | 72.7                | 80.8               | 65.1               | 55.0          | 125.3           | 78.4              | 105.1               | 80.8                |
| 18-Mar      | 88.0           | 73.5                | 82.0               | 65.5               | 55.0          | 125.3           | 79.4              | 106.7               | 80.3                |
| 25-Mar      | 88.0           | 72.8                | 81.9               | 66.2               | 55.0          | 126.0           | 77.2              | 106.7               | 80.5                |
| 1-Apr       | 88.0           | 73.3                | 83.4               | 67.6               | 61.0          | 133.0           | 81.3              | 111.8               | 86.1                |
| 8-Apr       | 88.0           | 73.1                | 83.3               | 66.6               | 57.0          | 132.3           | 82.7              | 111.0               | 85.2                |
| 15-Apr      | 90.0           | 73.9                | 84.4               | 68.4               | 61.0          | 126.0           | 79.1              | 110.0               | 86.1                |
| 22-Apr      | 90.0           | 73.4                | 84.2               | 67.8               | 61.0          | 133.0           | 81.4              | 110.2               | 85.0                |
| 29-Apr      | 90.0           | 74.9                | 84.7               | 68.7               | 63.0          | 139.3           | 87.5              | 114.0               | 87.6                |
| 6-May       | 90.0           | 76.2                | 85.8               | 70.0               | 64.0          | 133.7           | 81.3              | 118.8               | 94.3                |
| 13-May      | 90.0           | 75.6                | 86.6               | 70.8               | 66.0          | 133.7           | 81.1              | 121.6               | 96.7                |
| 20-May      | 91.0           | 76.7                | 86.6               | 71.4               | 66.0          | 142.1           | 84.3              | 126.2               | 100.6               |
| 27-May      | 91.0           | 77.7                | 86.9               | 72.2               | 70.0          | 150.5           | 84.4              | 128.2               | 104.5               |
| 3-Jun       | 90.0           | 77.7                | 87.1               | 73.1               | 70.0          | 142.8           | 83.2              | 133.0               | 110.1               |
| 10-Jun      | 91.0           | 78.5                | 87.8               | 73.4               | 70.0          | 150.5           | 84.4              | 136.2               | 112.7               |
| 17-Jun      | 91.0           | 78.6                | 87.9               | 73.7               | 72.0          | 149.8           | 85.4              | 134.7               | 111.5               |
| 24-Jun      | 91.0           | 78.6                | 88.1               | 73.6               | 72.0          | 150.5           | 84.5              | 137.2               | 113.6               |
| 1-Jul       | 91.0           | 79.0                | 88.5               | 74.0               | 72.0          | 151.9           | 84.8              | 138.8               | 112.4               |
| 8-Jul       | 91.0           | 78.9                | 89.3               | 74.0               | 72.0          | 150.5           | 86.7              | 138.8               | 112.4               |
| 15-Jul      | 91.0           | 79.4                | 88.6               | 74.0               | 72.0          | 150.5           | 86.8              | 139.6               | 113.3               |
| 22-Jul      | 91.0           | 78.8                | 89.0               | 73.5               | 70.0          | 150.5           | 86.5              | 139.1               | 113.3               |
| 29-Jul      | 91.0           | 79.5                | 89.1               | 73.7               | 72.0          | 150.5           | 87.1              | 140.0               | 114.6               |
| 5-Aug       | 91.0           | 79.6                | 89.0               | 74.0               | 71.0          | 150.5           | 87.3              | 141.1               | 113.3               |
| 12-Aug      | 91.0           | 79.3                | 88.8               | 74.1               | 70.0          | 151.2           | 86.3              | 138.8               | 115.0               |
| 19-Aug      | 91.0           | 79.3                | 88.8               | 74.5               | 72.0          | 151.2           | 85.8              | 140.2               | 116.2               |
| 26-Aug      | 91.0           | 78.7                | 88.8               | 73.9               | 72.0          | 151.2           | 86.6              | 140.1               | 114.4               |
| 2-Sep       | 91.0           | 78.7                | 88.9               | 73.9               | 72.0          | 151.2           | 86.0              | 141.4               | 114.7               |
| 9-Sep       | 91.0           | 79.1                | 88.8               | 73.7               | 72.0          | 151.2           | 87.0              | 140.7               | 115.4               |
| 16-Sep      | 91.0           | 78.8                | 88.2               | 73.7               | 72.0          | 151.2           | 85.6              | 140.2               | 115.5               |
| 23-Sep      | 91.0           | 79.0                | 88.0               | 73.6               | 72.0          | 151.2           | 85.5              | 138.8               | 115.8               |
| 30-Sep      | 90.0           | 78.2                | 86.6               | 73.1               | 70.0          | 150.5           | 85.4              | 137.0               | 115.2               |
| 7-Oct       | 90.0           | 78.8                | 86.5               | 73.1               | 70.0          | 151.9           | 84.2              | 138.9               | 113.9               |
| 14-Oct      | 90.0           | 78.2                | 85.4               | 72.3               | 68.0          | 147.7           | 84.5              | 132.2               | 110.5               |
| 21-Oct      | 88.0           | 76.8                | 84.4               | 71.0               | 64.0          | 142.1           | 81.7              | 127.5               | 104.0               |
| 28-Oct      | 88.0           | 77.2                | 83.8               | 70.3               | 63.0          | 142.1           | 83.1              | 126.1               | 102.7               |
| 4-Nov       | 88.0           | 77.7                | 84.0               | 70.3               | 64.0          | 142.8           | 83.4              | 123.9               | 101.4               |
| 11-Nov      | 88.0           | 76.8                | 82.4               | 69.5               | 61.0          | 142.1           | 83.7              | 120.5               | 97.0                |
| 18-Nov      | 86.0           | 75.6                | 81.6               | 67.8               | 57.0          | 133.7           | 80.4              | 115.1               | 92.4                |
| 25-Nov      | 88.0           | 75.7                | 81.8               | 67.0               | 59.0          | 133.7           | 80.3              | 115.5               | 91.6                |
| 2-Dec       | 88.0           | 75.0                | 81.7               | 68.2               | 59.0          | 133.0           | 79.7              | 116.6               | 94.4                |
| 9-Dec       | 86.0           | 74.2                | 80.6               | 65.8               | 55.0          | 133.0           | 80.0              | 111.0               | 85.7                |
| 16-Dec      | 84.0           | 73.3                | 79.1               | 64.2               | 52.0          | 130.2           | 80.3              | 103.3               | 78.9                |
| 23-Dec      | 84.0           | 73.4                | 77.8               | 63.5               | 52.0          | 125.3           | 77.8              | 101.9               | 76.7                |
| 31-Dec      | 84.0           | 73.4                | 78.5               | 64.2               | 54.0          | 125.3           | 78.6              | 103.7               | 81.5                |



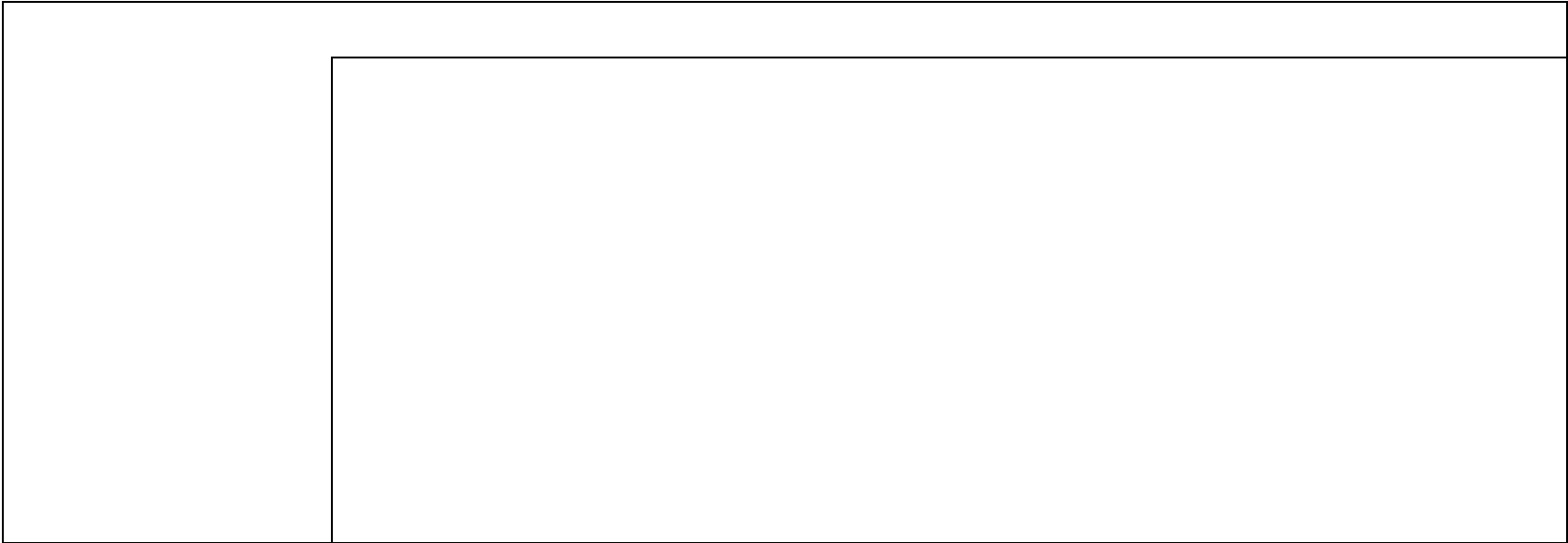
|     | Mean Cooling<br>Degree Days (°F) | Mean Heating<br>Degree Days (°F) |
|-----|----------------------------------|----------------------------------|
| JAN | 192                              | 28                               |
| FEB | 182                              | 24                               |
| MAR | 268                              | 11                               |
| APR | 322                              | 3                                |
| MAY | 419                              | 0                                |
| JUN | 448                              | 0                                |
| JUL | 477                              | 0                                |
| AUG | 479                              | 0                                |
| SEP | 439                              | 0                                |
| OCT | 363                              | 0                                |
| NOV | 294                              | 4                                |
| DEC | 218                              | 17                               |
| ANN | 4101                             | 87                               |



|     | Average Sensible<br>Cooling Load | Average Sensible<br>Heating Load | Average Latent<br>Cooling Load | Average Latent<br>Heating Load |
|-----|----------------------------------|----------------------------------|--------------------------------|--------------------------------|
|     | (Btu/cfm)                        | (Btu/cfm)                        | (Btu/cfm)                      | (Btu/cfm)                      |
| JAN | 662                              | -1334                            | 4216                           | 0                              |
| FEB | 733                              | -1176                            | 3840                           | 0                              |
| MAR | 1449                             | -621                             | 5316                           | 0                              |
| APR | 2118                             | -218                             | 6330                           | 0                              |
| MAY | 3427                             | -21                              | 10992                          | 0                              |
| JUN | 4184                             | 0                                | 13805                          | 0                              |
| JUL | 4715                             | 0                                | 14501                          | 0                              |
| AUG | 4781                             | 0                                | 14520                          | 0                              |
| SEP | 4045                             | 0                                | 13871                          | 0                              |
| OCT | 2602                             | -34                              | 11658                          | 0                              |
| NOV | 1639                             | -231                             | 8189                           | 0                              |
| DEC | 844                              | -881                             | 5298                           | 0                              |
| ANN | 31199                            | -4516                            | 112536                         | 0                              |

**Average Annual Solar Radiation – Nearest Available Site**  
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation  
Data Available



**Average Annual Solar Heat and Illumination – Nearest Available Site**

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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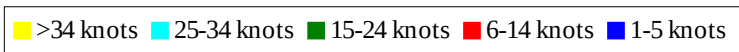
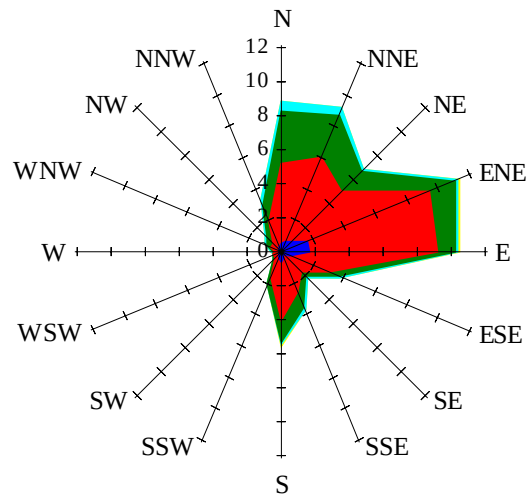
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### Wind Summary - December, January, and February

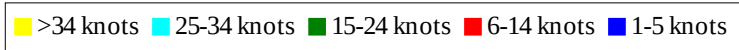
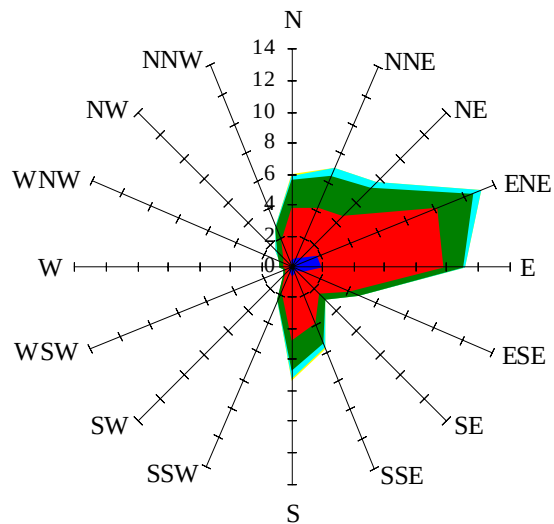
Labels of Percent Frequency on North Axis



Percent Calm = 29.68

### Wind Summary - March, April, and May

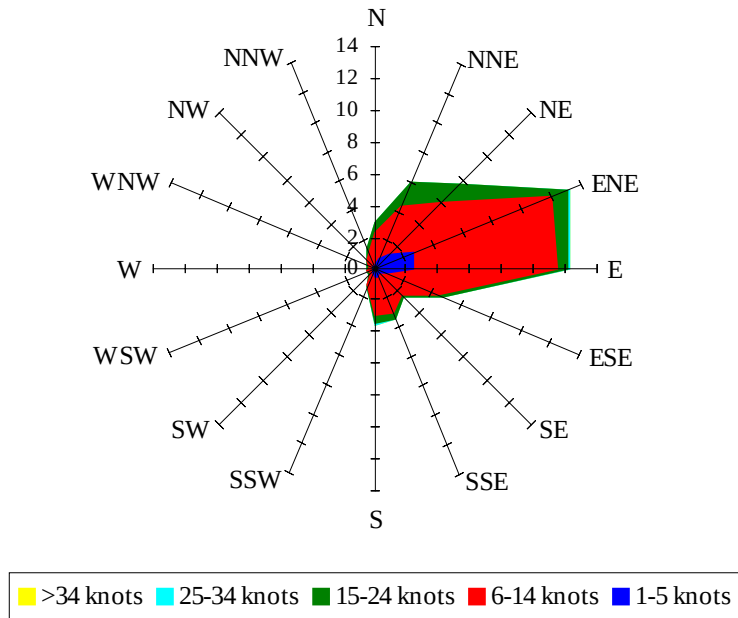
Labels of Percent Frequency on North Axis



Percent Calm = 25.80

### Wind Summary - June, July, and August

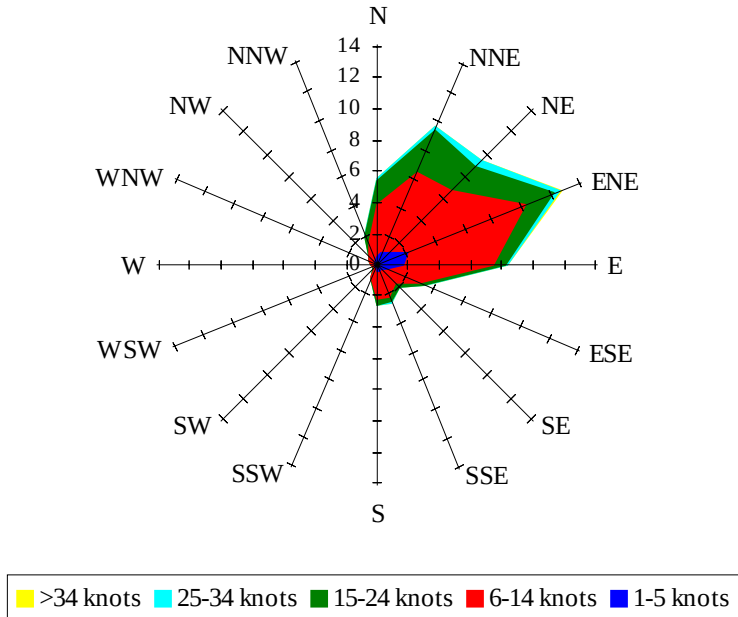
Labels of Percent Frequency on North Axis



Percent Calm = 38.49

### Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 38.98