

**Global Solar Radiation on a Horizontal Surface  
Hourly Integrated and Daily Totals  
Watt-Hours per Square Meter  
Mississippi Valley State Unive - November 1999**

Field: GHI

| Hour<br>Day | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8    | 9    | 10    | 11    | 12    | 13   | 14   | 15    | 16    | 17    | 18    | 19  | 20  | 21 | 22 | 23 | 24 | Daily  |
|-------------|---|---|---|---|---|---|---|------|------|-------|-------|-------|------|------|-------|-------|-------|-------|-----|-----|----|----|----|----|--------|
| 1           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10   | 99   | 263 ? | 319 ? | 461 ? | 385  | 544  | 352   | 273 ? | 169 ? | 131 ? | 0   | 0   | 0  | 0  | 0  | 0  | 3006 ? |
| 2           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 ?  | ?    | ?     | 575 ? | 642   | 691  | 677  | 643 ? | ?     | ?     | 140 ? | 0   | 0   | 0  | 0  | 0  | 0  | 3374 ? |
| 3           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 ?  | ?    | ?     | ?     | 634   | 689  | 672  | ?     | ?     | ?     | 67 ?  | 0 ? | 0   | 0  | 0  | 0  | 0  | 2064 ? |
| 4           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 ?  | ?    | ?     | 524 ? | 601   | 637  | 619  | 584 ? | ?     | ?     | 35 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 3000 ? |
| 5           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 ?  | ?    | ?     | 489 ? | 578   | 628  | 606  | 572 ? | ?     | ?     | 64 ?  | 0 ? | 0   | 0  | 0  | 0  | 0  | 2938 ? |
| 6           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 ?  | ?    | ?     | 497 ? | 570   | 623  | 604  | 571 ? | ?     | ?     | 41 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 2909 ? |
| 7           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11   | 60 ? | 243 ? | 420   | 557   | 604  | 592  | 554 ? | ?     | ?     | 12 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 3053 ? |
| 8           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9    | 55 ? | ?     | 468 ? | 547   | 597  | 582  | 538 ? | ?     | ?     | 37 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 2832 ? |
| 9           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8    | 69 ? | ?     | 433   | 520   | 616  | 597  | 534 ? | ?     | ?     | 40 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 2817 ? |
| 10          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7    | 85   | 158   | 387   | 542   | 596  | 576  | 424 ? | ?     | ?     | 38 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 2812 ? |
| 11          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 ?  | ?    | ?     | 500 ? | 573   | 624  | 608  | 566 ? | ?     | ?     | 39 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 2915 ? |
| 12          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7    | 56 ? | ?     | 445 ? | 544   | 596  | 582  | 544 ? | ?     | 118 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2891 ? |
| 13          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7    | 50 ? | ?     | 460 ? | 545   | 600  | 582  | 545 ? | ?     | 126 ? | 0 ?   | 0 ? | 0   | 0  | 0  | 0  | 0  | 2916 ? |
| 14          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7    | ?    | ?     | 450 ? | 538   | 592  | 575  | 539 ? | ?     | 117 ? | 0 ?   | 0 ? | 0   | 0  | 0  | 0  | 0  | 2816 ? |
| 15          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 ?  | ?    | ?     | 496 ? | 561   | 615  | 600  | ?     | ?     | 127 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2401 ? |
| 16          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 ?  | ?    | ?     | 478 ? | 544   | 599  | 584  | 545 ? | ?     | 120 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2869 ? |
| 17          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 ?  | ?    | ?     | 486 ? | 551   | 601  | 582  | 547 ? | ?     | 114 ? | 0 ?   | 0 ? | 0 ? | 0  | 0  | 0  | 0  | 2880 ? |
| 18          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 ?  | ?    | ?     | 477 ? | 542   | 595  | 580  | 545 ? | ?     | 122 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2863 ? |
| 19          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4    | 28 ? | ?     | 341   | 425   | 565  | 564  | 520 ? | ?     | 99 ?  | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2545 ? |
| 20          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2    | 55   | 149   | 274   | 397   | 570  | 556  | 517 ? | ?     | 120 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2640 ? |
| 21          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4    | 60   | 154   | 222   | 270   | 233  | 201  | 305   | 300 ? | 121 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 1868   |
| 22          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2    | 41   | 230   | 395   | 489   | 543  | 535  | 492 ? | ?     | 116 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2843 ? |
| 23          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2    | 46   | 130   | 282   | 480   | 564  | 425  | 275   | 138   | 27    | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2370   |
| 24          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 47   | 220 ? | 324   | 361   | 276  | 200  | 185   | 111   | 89 ?  | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 1815   |
| 25          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 17   | 48    | 21    | 44    | 136  | 119  | 56    | 36    | 29    | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 506    |
| 26          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | ?    | ?     | ?     | 529   | 580  | 568  | 416 ? | 203 ? | 126 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2424 ? |
| 27          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | ?    | ?     | 463 ? | 518   | 573  | 553  | 517 ? | ?     | 123 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2747 ? |
| 28          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | ?    | ?     | 443 ? | 501   | 553  | 531  | 491 ? | ?     | 112 ? | 0 ?   | 0 ? | 0   | 0  | 0  | 0  | 0  | 2632 ? |
| 29          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 12 ? | ?     | 454 ? | 525   | 570  | 548  | 506 ? | ?     | 122 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2738 ? |
| 30          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0    | ?    | ?     | ?     | 533   | 592  | 570  | 525 ? | ?     | 103 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 2323 ? |
| Avg         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3    | 52   | 177   | 412   | 504   | 555  | 538  | 479   | 177   | 110   | 21    | 0   | 0   | 0  | 0  | 0  | 0  | 2627   |
| S D         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3    | 22   | 64    | 113   | 114   | 125  | 129  | 129   | 92    | 31    | 37    | 0   | 0   | 0  | 0  | 0  | 0  | 521    |
| S/A         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.92 | 0.42 | 0.36  | 0.27  | 0.23  | 0.23 | 0.24 | 0.27  | 0.52  | 0.28  | 1.71  | 0   | 0   | 0  | 0  | 0  | 0  | 0.2    |
| Min         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 12   | 48    | 21    | 44    | 136  | 119  | 56    | 36    | 27    | 0     | 0   | 0   | 0  | 0  | 0  | 0  | 506    |
| Max         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11   | 99   | 263   | 575   | 642   | 691  | 677  | 643   | 300   | 169   | 140   | 0   | 0   | 0  | 0  | 0  | 0  | 3374   |

Daylight Data Recovery: 0% missing; 43% exceed the 15% QC threshold -- 3767 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

| Data and Flag | Hour Column          | Day Column           |
|---------------|----------------------|----------------------|
| <value>*      | 20% < Missing < 100% | 10% < Missing < 100% |
| <value>?      | 20% < Fail QC < 100% | 10% < Fail QC < 100% |
| <blank>*      | 100% Missing         | 100% Missing         |
| <blank>?      | 100% Fail QC         | 100% Fail QC         |

Station: MV  
Latitude: 33.50° N  
Longitude: 90.33° W  
Elevation: 52 Meters AMSL  
Time Zone: -6

Instrument: PSP  
Calibration Constant: 7.43 uV/Wm-2  
Serial Number: 18036F3  
Calibration Date: 5/15/98

**Direct Normal Solar Radiation**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Mississippi Valley State Unive - November 1999**

Field: DNI

| Hour Day | 1 | 2 | 3 | 4 | 5 | 6 | 7    | 8    | 9    | 10  | 11   | 12   | 13  | 14   | 15   | 16  | 17   | 18   | 19  | 20  | 21  | 22  | 23 | 24 | Daily |      |      |      |   |
|----------|---|---|---|---|---|---|------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-----|-----|-----|----|----|-------|------|------|------|---|
| 1        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0    | 3    | 181 | ?    | 454  | ?   | 346  | ?    | 26  | 366  | 58   | 143 | 96  | 0   | ?   | 0  | 0  | 0     | 1673 | ?    |      |   |
| 2        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 17   | ?    | ?   | ?    | 935  | ?   | 956  | 956  | 961 | 952  | ?    | 887 | ?   | 789 | 680 | ?  | 0  | 0     | 0    | 7133 | ?    |   |
| 3        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 12   | ?    | ?   | ?    | ?    | ?   | 969  | 980  | 974 | ?    | 884  | ?   | 799 | 692 | ?   | 0  | 0  | 0     | 0    | 5312 | ?    |   |
| 4        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 4    | ?    | ?   | ?    | 852  | ?   | 870  | 832  | 824 | 823  | ?    | 749 | 536 | 208 | ?   | 0  | 0  | 0     | 0    | 5698 | ?    |   |
| 5        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 9    | ?    | ?   | ?    | 780  | ?   | 822  | 844  | 845 | 833  | ?    | 755 | ?   | 644 | 533 | ?  | 0  | 0     | 0    | 0    | 6065 | ? |
| 6        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 10   | ?    | ?   | ?    | 801  | ?   | 826  | 856  | 853 | 842  | ?    | 749 | ?   | 640 | 534 | ?  | 0  | 0     | 0    | 0    | 6112 | ? |
| 7        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 27   | 168  | ?   | 305  | ?    | 649 | 798  | 816  | 816 | 806  | ?    | 741 | ?   | 634 | 42  | ?  | 0  | 0     | 0    | 0    | 5802 | ? |
| 8        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 21   | 158  | ?   | ?    | 722  | ?   | 753  | 771  | 753 | 692  | ?    | 622 | ?   | 514 | 378 | ?  | 0  | 0     | 0    | 0    | 5383 | ? |
| 9        | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 23   | 208  | ?   | ?    | 633  | 579 | 709  | 779  | 736 | ?    | 736  | 597 | 477 | ?   | 0   | 0  | 0  | 0     | 0    | 0    | 5476 | ? |
| 10       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 7    | 52   | ?   | 63   | 452  | 678 | 677  | 659  | 492 | ?    | 628  | ?   | 516 | 408 | ?   | 0  | 0  | 0     | 0    | 0    | 4632 | ? |
| 11       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 24   | ?    | ?   | ?    | 859  | ?   | 887  | 910  | 899 | 870  | ?    | 771 | 648 | 524 | ?   | 0  | 0  | 0     | 0    | 0    | 6393 | ? |
| 12       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 17   | 188  | ?   | ?    | 715  | ?   | 774  | 804  | 809 | 799  | ?    | 679 | ?   | 561 | ?   | 0  | 0  | 0     | 0    | 0    | 5347 | ? |
| 13       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 16   | 172  | ?   | ?    | 763  | ?   | 796  | 818  | 809 | 797  | ?    | 735 | 620 | ?   | 0   | 0  | 0  | 0     | 0    | 0    | 5526 | ? |
| 14       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 33   | ?    | ?   | ?    | 750  | ?   | 787  | 811  | 798 | 793  | ?    | 670 | ?   | 533 | ?   | 0  | 0  | 0     | 0    | 0    | 5175 | ? |
| 15       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 1    | ?    | ?   | ?    | 887  | ?   | 907  | 924  | 923 | 882  | ?    | 837 | 702 | ?   | 0   | 0  | 0  | 0     | 0    | 0    | 6063 | ? |
| 16       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0    | 0    | ?   | ?    | 861  | ?   | 881  | 892  | 886 | 869  | ?    | 771 | 641 | 0   | ?   | 0  | 0  | 0     | 0    | 0    | 5800 | ? |
| 17       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0    | 0    | ?   | ?    | 876  | ?   | 897  | 910  | 905 | 887  | ?    | 799 | 665 | 0   | ?   | 0  | 0  | 0     | 0    | 0    | 5938 | ? |
| 18       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 5    | ?    | ?   | ?    | 847  | ?   | 867  | 879  | 877 | 871  | ?    | 793 | 667 | 0   | ?   | 0  | 0  | 0     | 0    | 0    | 5807 | ? |
| 19       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 22   | 170  | ?   | ?    | 302  | 310 | 677  | 790  | 788 | ?    | 684  | 520 | 0   | ?   | 0   | 0  | 0  | 0     | 0    | 0    | 4264 | ? |
| 20       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0    | 82   | ?   | 6    | 18   | 196 | 774  | 783  | 778 | ?    | 684  | 560 | 0   | ?   | 0   | 0  | 0  | 0     | 0    | 0    | 3881 | ? |
| 21       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0    | 0    | 4   | 2    | 3    | 1   | 0    | 157  | 444 | ?    | 281  | 0   | ?   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 892  | ? |
| 22       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 2    | 43   | 438 | 596  | 688  | 732 | 735  | 720  | ?   | 628  | ?    | 489 | 0   | ?   | 0   | 0  | 0  | 0     | 0    | 0    | 5070 | ? |
| 23       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 9    | 23   | 1   | 108  | 562  | 672 | 320  | 57   | 24  | 0    | 0    | 0   | 0   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 1774 | ? |
| 24       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0    | 38   | 294 | ?    | 261  | 24  | 4    | 0    | 0   | 1    | 0    | 0   | 0   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 624  | ? |
| 25       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0    | 0    | 0   | 0    | 0    | 1   | 0    | 0    | 0   | 0    | 0    | 0   | 0   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 1    | ? |
| 26       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 9    | ?    | ?   | ?    | 921  | 939 | 931  | 675  | ?   | 594  | 729  | 0   | ?   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 4798 | ? |
| 27       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 4    | ?    | ?   | ?    | 885  | ?   | 906  | 923  | 919 | 909  | ?    | 835 | 721 | 0   | ?   | 0  | 0  | 0     | 0    | 0    | 6100 | ? |
| 28       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 2    | ?    | ?   | ?    | 847  | ?   | 858  | 879  | 881 | 868  | ?    | 790 | 668 | 0   | ?   | 0  | 0  | 0     | 0    | 0    | 5793 | ? |
| 29       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 1    | 117  | ?   | ?    | 854  | ?   | 883  | 885  | 909 | 896  | ?    | 825 | 698 | 0   | ?   | 0  | 0  | 0     | 0    | 0    | 6068 | ? |
| 30       | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 1    | ?    | ?   | ?    | 949  | ?   | 967  | 967  | 955 | ?    | 877  | ?   | 553 | 0   | ?   | 0  | 0  | 0     | 0    | 0    | 5269 | ? |
| Avg      | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 9    | 95   | 144 | 619  | 690  | 729 | 732  | 683  | 644 | 534  | 172  | 0   | 0   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 4796 | ? |
| S/D      | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 10   | 74   | 157 | 300  | 295  | 295 | 284  | 302  | 255 | 224  | 248  | 0   | 0   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 1830 | ? |
| S/A      | 0 | 0 | 0 | 0 | 0 | 0 | 5.39 | 1.04 | 0.78 | 1.1 | 0.48 | 0.43 | 0.4 | 0.39 | 0.44 | 0.4 | 0.42 | 1.44 | 0   | 0   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 0.38 | ? |
| Min      | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 0    | 0    | 0   | 0    | 0    | 1   | 0    | 0    | 0   | 0    | 0    | 0   | 0   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 1    | ? |
| Max      | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 33   | 208  | 438 | 935  | 969  | 980 | 974  | 955  | 887 | 799  | 692  | 0   | 0   | 0   | 0   | 0  | 0  | 0     | 0    | 0    | 7133 | ? |

Daylight Data Recovery: 0% missing; 27% exceed the 15% QC threshold -- 3767 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

| Data and Flag | Hour Column          | Day Column           |
|---------------|----------------------|----------------------|
| <value>*      | 20% < Missing < 100% | 10% < Missing < 100% |
| <value>?      | 20% < Fail QC < 100% | 10% < Fail QC < 100% |
| <blank>*      | 100% Missing         | 100% Missing         |
| <blank>?      | 100% Fail QC         | 100% Fail QC         |

Station: MV  
Latitude: 33.50° N  
Longitude: 90.33° W  
Elevation: 52 Meters AMSL  
Time Zone: -6

Instrument: NIP  
Calibration Constant: 8.67 uV/Wm-2  
Serial Number: 25796E6  
Calibration Date: 5/15/98

**Diffuse Solar Radiation on a Horizontal Surface (Shadow Band PSP)**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Mississippi Valley State Unive - November 1999**

Field: DHI

| Hour Day | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8    | 9    | 10    | 11   | 12   | 13   | 14   | 15    | 16    | 17   | 18    | 19  | 20  | 21 | 22 | 23 | 24 | Daily  |
|----------|---|---|---|---|---|---|---|------|------|-------|------|------|------|------|-------|-------|------|-------|-----|-----|----|----|----|----|--------|
| 1        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9    | 94   | 140   | 74   | 203  | 353  | 286  | 299   | 229 ? | ?    | 123 ? | 0   | 0   | 0  | 0  | 0  | 0  | 1810 ? |
| 2        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10   | 39   | 52    | 58   | 62   | 67   | 65   | 60 ?  | 52    | 43   | 16 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 524    |
| 3        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8    | 33   | 46    | 49   | 52   | 55   | 54   | 48 ?  | 45    | 36   | 9 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 436    |
| 4        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 ?  | 40   | 60    | 72 ? | 81   | 102  | 101  | 94 ?  | 79    | 71 ? | 20 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 729 ?  |
| 5        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8    | 44   | 71    | 86 ? | 86   | 86   | 80   | 76 ?  | 62 ?  | 50 ? | 13 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 661 ?  |
| 6        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7    | 42   | 66    | 78 ? | 82   | 78   | 77   | 73 ?  | 58 ?  | 49 ? | 12 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 622 ?  |
| 7        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7    | 74   | 126 ? | 100  | 88   | 89   | 87   | 81 ?  | 61 ?  | 52 ? | 4 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 770 ?  |
| 8        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7    | 47   | 76 ?  | 96 ? | 104  | 110  | 115  | 133 ? | 102 ? | 80 ? | 17 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 887 ?  |
| 9        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7    | 44 ? | ?     | 129  | 175  | 171  | 120  | 120 ? | 75    | 61 ? | 15 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 919 ?  |
| 10       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6    | 74   | 136   | 160  | 140  | 165  | 167  | 158 ? | 128 ? | 86 ? | 17 ?  | 0   | 0   | 0  | 0  | 0  | 0  | 1236   |
| 11       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5    | 38   | 53    | 58   | 64   | 63   | 65   | 68 ?  | 60    | 50 ? | 9 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 533    |
| 12       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5    | 33 ? | ?     | 99 ? | 101  | 100  | 93   | 89 ?  | 67 ?  | 56 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 646 ?  |
| 13       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5    | 40   | 67    | 79 ? | 91   | 95   | 93   | 87 ?  | 67    | 51 ? | 0 ?   | 0 ? | 0 ? | 0  | 0  | 0  | 0  | 674 ?  |
| 14       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4    | 39   | 65    | 85 ? | 91   | 92   | 94   | 89 ?  | 75 ?  | 61 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 694 ?  |
| 15       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3    | 27   | 42    | 49   | 52   | 53   | 52   | 46 ?  | 45    | 37   | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 406    |
| 16       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3    | 28   | 41    | 48   | 54   | 59   | 60   | 61 ?  | 54    | 43 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 450    |
| 17       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3    | 30   | 46    | 54   | 56   | 55   | 51   | 50 ?  | 46    | 35   | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 427    |
| 18       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3    | 32   | 52    | 61   | 66   | 69   | 67   | 63 ?  | 56    | 45 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 514    |
| 19       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3    | 36   | 61 ?  | 203  | 246  | 154  | 101  | 85 ?  | 78    | 60 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 1027 ? |
| 20       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2    | 42   | 139   | 256  | 273  | 111  | 102  | 93 ?  | 75    | 58 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 1151   |
| 21       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4    | 56   | 144   | 209  | 258  | 225  | 195  | 217   | 147 ? | 66 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 1523   |
| 22       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2    | 32   | 92    | 133  | 113  | 113  | 112  | 102 ? | 83 ?  | 70 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 849    |
| 23       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2    | 43   | 122   | 225  | 161  | 164  | 229  | 238   | 121   | 27 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 1334   |
| 24       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 40   | 124 ? | 208  | 336  | 267  | 196  | 180   | 108   | 85 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 1543   |
| 25       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 16   | 46    | 21   | 43   | 132  | 116  | 54    | 35    | 29 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 493    |
| 26       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 23   | 40    | 45   | 51   | 54   | 55   | 98 ?  | 91    | 35 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 492    |
| 27       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 23   | 40    | 48   | 51   | 53   | 52   | 50 ?  | 42    | 33 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 392    |
| 28       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 23   | 42    | 51   | 61   | 61   | 55   | 54 ?  | 42    | 34 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 423    |
| 29       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1    | 25   | 45    | 55   | 76   | 76   | 58   | 57 ?  | 47    | 39 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 478    |
| 30       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 20   | 38    | 46   | 54   | 57   | 54   | 50 ?  | 55    | 84 ? | 0 ?   | 0   | 0   | 0  | 0  | 0  | 0  | 459    |
| Avg      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4    | 39   | 74    | 98   | 112  | 111  | 102  | 99    | 76    | 53   | 8     | 0   | 0   | 0  | 0  | 0  | 0  | 770    |
| S D      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3    | 17   | 36    | 62   | 76   | 69   | 57   | 61    | 39    | 17   | 22    | 0   | 0   | 0  | 0  | 0  | 0  | 381    |
| S/A      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.68 | 0.42 | 0.49  | 0.64 | 0.68 | 0.62 | 0.56 | 0.61  | 0.51  | 0.33 | 2.62  | 0   | 0   | 0  | 0  | 0  | 0  | 0.49   |
| Min      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0    | 16   | 38    | 21   | 43   | 53   | 51   | 46    | 35    | 27   | 0     | 0   | 0   | 0  | 0  | 0  | 0  | 392    |
| Max      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10   | 94   | 144   | 256  | 336  | 353  | 286  | 299   | 229   | 86   | 123   | 0   | 0   | 0  | 0  | 0  | 0  | 1810   |

Daylight Data Recovery: 0% missing; 14% exceed the 15% QC threshold -- 3767 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

| Data and Flag | Hour Column          | Day Column           |
|---------------|----------------------|----------------------|
| <value>*      | 20% < Missing < 100% | 10% < Missing < 100% |
| <value>?      | 20% < Fail QC < 100% | 10% < Fail QC < 100% |
| <blank>*      | 100% Missing         | 100% Missing         |
| <blank>?      | 100% Fail QC         | 100% Fail QC         |

Station: MV  
Latitude: 33.50° N  
Longitude: 90.33° W  
Elevation: 52 Meters AMSL  
Time Zone: -6

Instrument: PSP  
Calibration Constant: 7.47 uV/Wm-2  
Serial Number: 18039F3  
Calibration Date: 5/15/98