

September 2001

Global Solar Radiation on a Horizontal Surface  
 Hourly Integrated and Daily Totals  
 Instrument: Eppley PSP  
 Watt-Hours per Square Meter

| 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 | 2    | 21   | 40    | 40   | 52  | 127  | 120  | 178  | 210  | 200  | 110  | 145  | 31  | 3    | 0  | 0  | 0  | 0  | 0  | 1277  |
| 2   | 0 | 0 | 0 | 0 | 0 | 4    | 42   | 46    | 30   | 62  | 118  | 169  | 226  | 361  | 222  | 205  | 175  | 33  | 7    | 0  | 0  | 0  | 0  | 0  | 1702  |
| 3   | 0 | 0 | 0 | 0 | 0 | 5    | 58   | 214   | 289  | 342 | 739  | 625  | 571  | 493  | 454  | 328  | 338  | 93  | 4    | 0  | 0  | 0  | 0  | 0  | 4554  |
| 4   | 0 | 0 | 0 | 0 | 0 | 9    | 79   | 264   | 290  | 599 | 702  | 823  | 696  | 513  | 549  | 188  | 197  | 38  | 5    | 0  | 0  | 0  | 0  | 0  | 4954  |
| 5   | 0 | 0 | 0 | 0 | 0 | 11   | 75   | 144   | 277  | 600 | 712  | 714  | 859  | 487  | 667  | 208  | 121  | 59  | 9    | 0  | 0  | 0  | 0  | 0  | 4942  |
| 6   | 0 | 0 | 0 | 0 | 0 | 9    | 86   | 270   | 398  | 601 | 558  | 773  | 812  | 796  | 604  | 241  | 180  | 98  | 15   | 0  | 0  | 0  | 0  | 0  | 5441  |
| 7   | 0 | 0 | 0 | 0 | 0 | 11   | 92   | 176 ? | 273  | 503 | 721  | 680  | 782  | 659  | 553  | 454  | 272  | 85  | 7    | 0  | 0  | 0  | 0  | 0  | 5268  |
| 8   | 0 | 0 | 0 | 0 | 0 | 10   | 87   | 257   | 285  | 578 | 657  | 764  | 861  | 786  | 423  | 67   | 19   | 19  | 2    | 0  | 0  | 0  | 0  | 0  | 4815  |
| 9   | 0 | 0 | 0 | 0 | 0 | 3    | 67   | 150   | 367  | 545 | 790  | 651  | 628  | 468  | 437  | 231  | 139  | 53  | 11   | 0  | 0  | 0  | 0  | 0  | 4540  |
| 10  | 0 | 0 | 0 | 0 | 0 | 4    | 91   | 287   | 494  | 672 | 798  | 871  | 869  | 789  | 664  | 482  | 276  | 79  | 2    | 0  | 0  | 0  | 0  | 0  | 6379  |
| 11  | 0 | 0 | 0 | 0 | 0 | 7    | 93   | 293   | 502  | 663 | 785  | 854  | 855  | 791  | 628  | 446  | 247  | 61  | 2    | 0  | 0  | 0  | 0  | 0  | 6227  |
| 12  | 0 | 0 | 0 | 0 | 0 | 5    | 76   | 250   | 422  | 601 | 575  | 812  | 754  | 599  | 537  | 416  | 121  | 51  | 3    | 0  | 0  | 0  | 0  | 0  | 5222  |
| 13  | 0 | 0 | 0 | 0 | 0 | 2    | 86   | 273   | 464  | 627 | 753  | 711  | 788  | 628  | 628  | 444  | 156  | 31  | 0    | 0  | 0  | 0  | 0  | 0  | 5590  |
| 14  | 0 | 0 | 0 | 0 | 0 | 7    | 77   | 238   | 415  | 544 | 636  | 796  | 781  | 716  | 621  | 428  | 232  | 56  | 0    | 0  | 0  | 0  | 0  | 0  | 5548  |
| 15  | 0 | 0 | 0 | 0 | 0 | 7    | 86   | 191   | 265  | 514 | 801  | 853  | 854  | 798  | 605  | 423  | 150  | 14  | 0    | 0  | 0  | 0  | 0  | 0  | 5561  |
| 16  | 0 | 0 | 0 | 0 | 0 | 4    | 41   | 223   | 394  | 611 | 763  | 841  | 831  | 744  | 524  | 402  | 209  | 32  | 0    | 0  | 0  | 0  | 0  | 0  | 5619  |
| 17  | 0 | 0 | 0 | 0 | 0 | 7    | 83   | 251   | 447  | 617 | 736  | 804  | 732  | 671  | 498  | 394  | 170  | 38  | 0    | 0  | 0  | 0  | 0  | 0  | 5450  |
| 18  | 0 | 0 | 0 | 0 | 0 | 4    | 62   | 221   | 417  | 582 | 687  | 755  | 700  | 659  | 539  | 224  | 205  | 47  | 0    | 0  | 0  | 0  | 0  | 0  | 5101  |
| 19  | 0 | 0 | 0 | 0 | 0 | 2    | 38   | 96    | 377  | 531 | 692  | 615  | 502  | 540  | 512  | 416  | 209  | 24  | 0    | 0  | 0  | 0  | 0  | 0  | 4554  |
| 20  | 0 | 0 | 0 | 0 | 0 | 4    | 90   | 253   | 466  | 657 | 760  | 802  | 678  | 590  | 455  | 265  | 127  | 24  | 0    | 0  | 0  | 0  | 0  | 0  | 5171  |
| 21  | 0 | 0 | 0 | 0 | 0 | 5    | 62   | 225   | 348  | 553 | 770  | 817  | 804  | 742  | 593  | 386  | 194  | 29  | 0    | 0  | 0  | 0  | 0  | 0  | 5530  |
| 22  | 0 | 0 | 0 | 0 | 0 | 0    | 27   | 245   | 188  | 519 | 746  | 670  | 673  | 725  | 572  | 393  | 198  | 29  | 0    | 0  | 0  | 0  | 0  | 0  | 4984  |
| 23  | 0 | 0 | 0 | 0 | 0 | 2    | 85   | 128   | 138  | 455 | 545  | 756  | 771  | 466  | 194  | 152  | 96   | 29  | 0    | 0  | 0  | 0  | 0  | 0  | 3814  |
| 24  | 0 | 0 | 0 | 0 | 0 | 2    | 29   | 78    | 184  | 263 | 307  | 358  | 371  | 392  | 365  | 364  | 174  | 28  | 0    | 0  | 0  | 0  | 0  | 0  | 2913  |
| 25  | 0 | 0 | 0 | 0 | 0 | 2    | 76   | 261   | 478  | 655 | 779  | 842  | 834  | 754  | 611  | 416  | 206  | 38  | 0    | 0  | 0  | 0  | 0  | 0  | 5951  |
| 26  | 0 | 0 | 0 | 0 | 0 | 1    | 71   | 260   | 474  | 646 | 772  | 834  | 825  | 746  | 603  | 393  | 195  | 35  | 0    | 0  | 0  | 0  | 0  | 0  | 5855  |
| 27  | 0 | 0 | 0 | 0 | 0 | 1    | 57   | 267   | 472  | 632 | 759  | 819  | 805  | 698  | 506  | 370  | 179  | 35  | 0    | 0  | 0  | 0  | 0  | 0  | 5602  |
| 28  | 0 | 0 | 0 | 0 | 0 | 1    | 72   | 245   | 458  | 632 | 754  | 814  | 803  | 725  | 580  | 393  | 177  | 34  | 0    | 0  | 0  | 0  | 0  | 0  | 5688  |
| 29  | 0 | 0 | 0 | 0 | 0 | 2    | 64   | 250   | 463  | 633 | 754  | 812  | 795  | 716  | 569  | 372  | 173  | 34  | 0    | 0  | 0  | 0  | 0  | 0  | 5638  |
| 30  | 0 | 0 | 0 | 0 | 0 | 1    | 61   | 243   | 454  | 623 | 746  | 806  | 794  | 715  | 570  | 386  | 178  | 32  | 0    | 0  | 0  | 0  | 0  | 0  | 5610  |
| Avg | 0 | 0 | 0 | 0 | 0 | 4    | 68   | 211   | 352  | 537 | 668  | 719  | 714  | 633  | 516  | 333  | 182  | 43  | 2    | 0  | 0  | 0  | 0  | 0  | 4983  |
| S D | 0 | 0 | 0 | 0 | 0 | 3    | 21   | 71    | 132  | 159 | 180  | 187  | 179  | 150  | 127  | 113  | 59   | 22  | 4    | 0  | 0  | 0  | 0  | 0  | 1174  |
| S/A | 0 | 0 | 0 | 0 | 0 | 0.73 | 0.31 | 0.34  | 0.38 | 0.3 | 0.27 | 0.26 | 0.25 | 0.24 | 0.25 | 0.34 | 0.32 | 0.5 | 1.67 | 0  | 0  | 0  | 0  | 0  | 0.24  |
| Min | 0 | 0 | 0 | 0 | 0 | 0    | 21   | 40    | 30   | 52  | 118  | 120  | 178  | 210  | 194  | 67   | 19   | 14  | 0    | 0  | 0  | 0  | 0  | 0  | 1277  |
| Max | 0 | 0 | 0 | 0 | 0 | 11   | 93   | 293   | 502  | 672 | 801  | 871  | 869  | 798  | 667  | 482  | 338  | 98  | 15   | 0  | 0  | 0  | 0  | 0  | 6379  |
| n   | 0 | 0 | 0 | 0 | 0 | 96   | 358  | 352   | 357  | 360 | 360  | 360  | 360  | 360  | 360  | 360  | 360  | 360 | 338  | 40 | 0  | 0  | 0  | 0  | 4421  |

Daylight Data Recovery: 0.0% missing; 0.3% exceed the 15% QC threshold -- 4434 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18036F3 Calibration Factor: 7.430 μV/W/m² Calibration Date: 05/1998

| Data & Flag | Hour Column   | Day Column    |
|-------------|---------------|---------------|
| <value> *   | > 20% Missing | > 10% Missing |
| <value> ?   | > 20% Fail QC | > 10% Fail QC |
| <blank> *   | > 90% Missing | > 90% Missing |
| <blank> ?   | > 90% Fail QC | > 90% Fail QC |

Note: Daily values with a missing flag (\*) are not used in monthly statistics.

September 2001

Direct Normal Solar Radiation  
 Hourly Integrated and Daily Totals  
 Instrument: Eppley NIP  
 Watt-Hours per Square Meter

| 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  | 0  | 0  | *     |
| 2   | 0 | 0 | 0 | 0 | 0 | ?    | ?    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 3   | 0 | 0 | 0 | 0 | 0 | *    | *    | ?   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 4   | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 5   | 0 | 0 | 0 | 0 | 0 | *    | *    | ?   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 6   | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 7   | 0 | 0 | 0 | 0 | 0 | *    | *    | ?   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 8   | 0 | 0 | 0 | 0 | 0 | 413  | 392* | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 9   | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 10  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 11  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 12  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 13  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 14  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 15  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *  | 0  | 0  | 0  | 0  | 0  | *     |
| 16  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 17  | 0 | 0 | 0 | 0 | 0 | ?    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 18  | 0 | 0 | 0 | 0 | 0 | ?    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 19  | 0 | 0 | 0 | 0 | 0 | *    | ?    | ?   | ?   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 20  | 0 | 0 | 0 | 0 | 0 | ?    | ?    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 21  | 0 | 0 | 0 | 0 | 0 | ?    | ?    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 22  | 0 | 0 | 0 | 0 | 0 | 490  | 520? | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 23  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 24  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 25  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 26  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 27  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 28  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 29  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| 30  | 0 | 0 | 0 | 0 | 0 | *    | *    | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | *   | 0  | 0  | 0  | 0  | 0  | 0  | *     |
| Avg | 0 | 0 | 0 | 0 | 0 | 451  | 456  | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0  | 0  | 0  | 0  | 0  | 0  | N/A * |
| SD  | 0 | 0 | 0 | 0 | 0 | 55   | 91   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| StA | 0 | 0 | 0 | 0 | 0 | 0.12 | 0.2  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| Min | 0 | 0 | 0 | 0 | 0 | 413  | 392  | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0  | 0  | 0  | 0  | 0  | 0  | N/A   |
| Max | 0 | 0 | 0 | 0 | 0 | 490  | 520  | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0  | 0  | 0  | 0  | 0  | 0  | N/A   |
| n   | 0 | 0 | 0 | 0 | 0 | 6    | 10   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0     |

Daylight Data Recovery: 95.4% missing; 4.1% exceed the 15% QC threshold -- 4434 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25796E6 Calibration Factor: 8.670 μV/W/m² Calibration Date: 05/1998

| Data & Flag | Hour Column   | Day Column    |
|-------------|---------------|---------------|
| <value> *   | > 20% Missing | > 10% Missing |
| <value> ?   | > 20% Fail QC | > 10% Fail QC |
| <blank> *   | > 90% Missing | > 90% Missing |
| <blank> ?   | > 90% Fail QC | > 90% Fail QC |

Note: Daily values with a missing flag (\*) are not used in monthly statistics.

**Mississippi Valley State University**  
**33.5 N Latitude 90.33 W Longitude 52 Meters AMSL Time Zone -6**

**September 2001**

**Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Instrument: Eppley PSP**  
**Watt-Hours per Square Meter**

| 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 | 2    | 18   | 35    | 35    | 46    | 112   | 106   | 156   | 186   | 176   | 96    | 126   | 27   | 2   | 0  | 0  | 0  | 0  | 0  | 1123   |
| 2   | 0 | 0 | 0 | 0 | 0 | 3    | 41   | 39    | 26    | 54    | 104   | 148   | 199   | 317   | 194   | 180   | 140   | 30   | 7   | 0  | 0  | 0  | 0  | 0  | 1482   |
| 3   | 0 | 0 | 0 | 0 | 0 | 5    | 51   | 165   | 254   | 299   | 524 ? | 352 ? | 390 ? | 428   | 368 ? | 299   | 282 ? | 93   | 4   | 0  | 0  | 0  | 0  | 0  | 3513 ? |
| 4   | 0 | 0 | 0 | 0 | 0 | 8    | 73   | 245   | 258   | 421 ? | 457 ? | 479 ? | 491 ? | 391 ? | 362 ? | 142   | 116 ? | 34   | 5   | 0  | 0  | 0  | 0  | 0  | 3481 ? |
| 5   | 0 | 0 | 0 | 0 | 0 | 11   | 65   | 127   | 241   | 472 ? | 567 ? | 559 ? | 635 ? | 458   | 410 ? | 160   | 105   | 52   | 8   | 0  | 0  | 0  | 0  | 0  | 3871 ? |
| 6   | 0 | 0 | 0 | 0 | 0 | 8    | 77   | 259   | 309 ? | ?     | 412 ? | 577 ? | 704 ? | ?     | 352 ? | 130 ? | 168   | 93   | 15  | 0  | 0  | 0  | 0  | 0  | 3104 ? |
| 7   | 0 | 0 | 0 | 0 | 0 | 9    | 88   | 164   | 239   | 437   | 619 ? | 495 ? | 648 ? | 461 ? | 408 ? | 402 ? | 270 ? | 81   | 7   | 0  | 0  | 0  | 0  | 0  | 4327 ? |
| 8   | 0 | 0 | 0 | 0 | 0 | 9    | 78   | 209 ? | 234   | 422 ? | 483 ? | 465 ? | ?     | ?     | 397   | 60    | 16    | 17   | 1   | 0  | 0  | 0  | 0  | 0  | 2391 ? |
| 9   | 0 | 0 | 0 | 0 | 0 | 2    | 61   | 100   | 287   | 480   | 620 ? | 578   | 445 ? | 416   | 396   | 202   | 122   | 46   | 10  | 0  | 0  | 0  | 0  | 0  | 3767 ? |
| 10  | 0 | 0 | 0 | 0 | 0 | 3    | 84   | 292 ? | ?     | ?     | ?     | ?     | ?     | ?     | ?     | ?     | 185 ? | 76   | 2   | 0  | 0  | 0  | 0  | 0  | 642 ?  |
| 11  | 0 | 0 | 0 | 0 | 0 | 6    | 87   | 281 ? | ?     | ?     | ?     | ?     | ?     | ?     | 440 ? | 354 ? | 229 ? | 60   | 2   | 0  | 0  | 0  | 0  | 0  | 1458 ? |
| 12  | 0 | 0 | 0 | 0 | 0 | 4    | 69   | 234   | 401   | 561   | 482 ? | 584 ? | 468 ? | 452 ? | 456 ? | 172 ? | 109   | 47   | 3   | 0  | 0  | 0  | 0  | 0  | 4042 ? |
| 13  | 0 | 0 | 0 | 0 | 0 | 2    | 79   | 272 ? | 442   | ?     | ?     | 274 ? | 586 ? | 417 ? | ?     | 410 ? | 146   | 27   | 0   | 0  | 0  | 0  | 0  | 0  | 2654 ? |
| 14  | 0 | 0 | 0 | 0 | 0 | 7    | 71   | 226   | 357 ? | 455 ? | 371 ? | ?     | 586 ? | 620 ? | ?     | 403 ? | 209 ? | 54   | 0   | 0  | 0  | 0  | 0  | 0  | 3358 ? |
| 15  | 0 | 0 | 0 | 0 | 0 | 6    | 66   | 169   | 229   | 398 ? | ?     | ?     | ?     | ?     | ?     | 340 ? | 146   | 13   | 0   | 0  | 0  | 0  | 0  | 0  | 1367 ? |
| 16  | 0 | 0 | 0 | 0 | 0 | 4    | 37   | 177 ? | 286 ? | 487 ? | ?     | ?     | ?     | ?     | 366 ? | 361 ? | 197   | 31   | 0   | 0  | 0  | 0  | 0  | 0  | 1946 ? |
| 17  | 0 | 0 | 0 | 0 | 0 | 6    | 79   | 243   | 413 ? | ?     | ?     | ?     | 597 ? | 569 ? | 431 ? | 325 ? | 112 ? | 34   | 0   | 0  | 0  | 0  | 0  | 0  | 2809 ? |
| 18  | 0 | 0 | 0 | 0 | 0 | 4    | 55   | 202   | 392   | 535   | 436 ? | 622 ? | 435 ? | 506 ? | 415 ? | 201   | 132 ? | 44   | 0   | 0  | 0  | 0  | 0  | 0  | 3979 ? |
| 19  | 0 | 0 | 0 | 0 | 0 | 1    | 33   | 84    | 251 ? | 447 ? | 534 ? | 417 ? | 460   | 395 ? | 373 ? | 381 ? | 191   | 23   | 0   | 0  | 0  | 0  | 0  | 0  | 3590 ? |
| 20  | 0 | 0 | 0 | 0 | 0 | 3    | 83   | 264 ? | ?     | ?     | ?     | ?     | 550 ? | 512   | 426   | 240   | 114   | 22   | 0   | 0  | 0  | 0  | 0  | 0  | 2213 ? |
| 21  | 0 | 0 | 0 | 0 | 0 | 4    | 56   | 207   | 282   | 485 ? | ?     | ?     | ?     | ?     | ?     | 297 ? | 125 ? | 27   | 0   | 0  | 0  | 0  | 0  | 0  | 1482 ? |
| 22  | 0 | 0 | 0 | 0 | 0 | 0    | 25   | 206 ? | 169   | 265 ? | ?     | 575 ? | 564 ? | ?     | ?     | 364 ? | 163 ? | 27   | 0   | 0  | 0  | 0  | 0  | 0  | 2358 ? |
| 23  | 0 | 0 | 0 | 0 | 0 | 1    | 66   | 104   | 122   | 370   | 410 ? | 636 ? | 589 ? | 406   | 171   | 134   | 84    | 26   | 0   | 0  | 0  | 0  | 0  | 0  | 3120 ? |
| 24  | 0 | 0 | 0 | 0 | 0 | 2    | 25   | 68    | 161   | 230   | 269   | 314   | 326   | 350   | 329   | 289 ? | 117   | 24   | 0   | 0  | 0  | 0  | 0  | 0  | 2504   |
| 25  | 0 | 0 | 0 | 0 | 0 | 2    | 70   | 239 ? | ?     | ?     | ?     | ?     | ?     | ?     | ?     | ?     | 150 ? | 39   | 0   | 0  | 0  | 0  | 0  | 0  | 499 ?  |
| 26  | 0 | 0 | 0 | 0 | 0 | 1    | 66   | 239 ? | ?     | ?     | ?     | ?     | ?     | ?     | ?     | 391 ? | 156 ? | 38   | 0   | 0  | 0  | 0  | 0  | 0  | 891 ?  |
| 27  | 0 | 0 | 0 | 0 | 0 | 1    | 62   | 187 ? | ?     | ?     | ?     | ?     | ?     | ?     | 492 ? | 381 ? | 168   | 38   | 0   | 0  | 0  | 0  | 0  | 0  | 1329 ? |
| 28  | 0 | 0 | 0 | 0 | 0 | 1    | 70   | 234 ? | ?     | ?     | ?     | ?     | ?     | ?     | ?     | 341 ? | 152 ? | 35   | 0   | 0  | 0  | 0  | 0  | 0  | 832 ?  |
| 29  | 0 | 0 | 0 | 0 | 0 | 1    | 58   | 229 ? | ?     | ?     | ?     | ?     | ?     | ?     | ?     | 320 ? | 151   | 33   | 0   | 0  | 0  | 0  | 0  | 0  | 792 ?  |
| 30  | 0 | 0 | 0 | 0 | 0 | 1    | 56   | 219 ? | ?     | ?     | ?     | ?     | ?     | ?     | ?     | ?     | 146 ? | 34   | 0   | 0  | 0  | 0  | 0  | 0  | 455 ?  |
| Avg | 0 | 0 | 0 | 0 | 0 | 4    | 62   | 191   | 257   | 381   | 426   | 449   | 491   | 430   | 366   | 273   | 151   | 41   | 2   | 0  | 0  | 0  | 0  | 0  | 2313 ? |
| S D | 0 | 0 | 0 | 0 | 0 | 3    | 19   | 72    | 112   | 148   | 159   | 166   | 150   | 101   | 91    | 108   | 53    | 21   | 4   | 0  | 0  | 0  | 0  | 0  | 1220   |
| S/A | 0 | 0 | 0 | 0 | 0 | 0.76 | 0.31 | 0.38  | 0.44  | 0.39  | 0.37  | 0.37  | 0.31  | 0.23  | 0.25  | 0.4   | 0.35  | 0.52 | 1.7 | 0  | 0  | 0  | 0  | 0  | 0.53   |
| Min | 0 | 0 | 0 | 0 | 0 | 0    | 18   | 35    | 26    | 46    | 104   | 106   | 156   | 186   | 171   | 60    | 16    | 13   | 0   | 0  | 0  | 0  | 0  | 0  | 455    |
| Max | 0 | 0 | 0 | 0 | 0 | 11   | 88   | 292   | 442   | 561   | 620   | 636   | 704   | 620   | 492   | 410   | 282   | 93   | 15  | 0  | 0  | 0  | 0  | 0  | 4327   |
| n   | 0 | 0 | 0 | 0 | 0 | 95   | 358  | 293   | 225   | 164   | 107   | 110   | 115   | 139   | 152   | 227   | 280   | 338  | 40  | 0  | 0  | 0  | 0  | 0  | 2654   |

Daylight Data Recovery: 0.0% missing; 40.1% exceed the 15% QC threshold -- 4434 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 18039F3    Calibration Factor: 7.470 μV/W/m<sup>2</sup>    Calibration Date: 05/1998

| Data & Flag | Hour Column   | Day Column    |
|-------------|---------------|---------------|
| <value> *   | > 20% Missing | > 10% Missing |
| <value> ?   | > 20% Fail QC | > 10% Fail QC |
| <blank> *   | > 90% Missing | > 90% Missing |
| <blank> ?   | > 90% Fail QC | > 90% Fail QC |

Note: Daily values with a missing flag (\*) are not used in monthly statistics.