

# \*\*\* SOLAR EZ-TILT \*\*\*

“MAKING ADJUSTABLE GROUND MOUNTING PV MORE EFFECTIVE THAN ROOF MOUNTING”

| MONTH                                       | SUN ANGLE<br>(NOON-21 <sup>ST</sup> ) | OPTIMUM<br>TILT ANGLE | “IDEAL”<br>SUBURBAN | “TYPICAL”<br>SUBURBAN | “WORSE”<br>SUBURBAN | EZ-TILT<br>(4 PER YEAR) | EZ-TILT<br>SETTINGS |
|---------------------------------------------|---------------------------------------|-----------------------|---------------------|-----------------------|---------------------|-------------------------|---------------------|
| JANUARY                                     | 36                                    | 54                    | 250                 | 221                   | 141                 | 266                     | 51                  |
| FEBRUARY                                    | 45                                    | 45                    | 271                 | 243                   | 170                 | 278                     | 51                  |
| MARCH                                       | 56                                    | 34                    | 326                 | 301                   | 237                 | 326                     | 39                  |
| APRIL                                       | 68                                    | 22                    | 369                 | 359                   | 318                 | 361                     | 39                  |
| MAY                                         | 77                                    | 13                    | 357                 | 337                   | 313                 | 382                     | 16                  |
| JUNE                                        | 80                                    | 10                    | 331                 | 319                   | 308                 | 362                     | 16                  |
| JULY                                        | 77                                    | 13                    | 335                 | 302                   | 275                 | 363                     | 16                  |
| AUGUST                                      | 68                                    | 22                    | 340                 | 306                   | 265                 | 352                     | 16                  |
| SEPTEMBER                                   | 56                                    | 34                    | 299                 | 282                   | 236                 | 296                     | 39                  |
| OCTOBER                                     | 45                                    | 45                    | 339                 | 313                   | 231                 | 343                     | 39                  |
| NOVEMBER                                    | 36                                    | 54                    | 269                 | 237                   | 153                 | 284                     | 51                  |
| DECEMBER                                    | 33                                    | 57                    | 242                 | 214                   | 132                 | 262                     | 51                  |
| <b><u>TOTAL ANNUAL KWH &gt;&gt;&gt;</u></b> |                                       |                       | <b><u>3728</u></b>  | <b><u>3434</u></b>    | <b><u>2779</u></b>  | <b><u>3875</u></b>      |                     |

<<< by: Rocky Ridge Designs >>>

% OVER “TYPICAL” >>> **12.8%**  
 % OVER “WORSE” >>> **39.4%**  
 % OVER “IDEAL” >>> **3.9%**

**NOTES:**

- 1- ALL ARRAYS ARE 3200 WATTS, "OUTPUT" IS KWH PER MONTH, TOTAL DERATE = .67
- 2- NREL'S "PVWATTS" TO CALCULATE MONTHLY KWH (KILLOWATT-HOUR)
- 3- ATLANTA, GA REFERENCE - LATITUDE = 33.5 DEG.
- 3- "IDEAL CLIENT ROOF" IS 180 DEGREE AZIMUTH (DUE SOUTH) & LATITUDE TILT (34 DEG, ABOUT 8/12)
- 4- "TYPICAL SUBURBAN ROOF" IS 225 DEGREE AZIMUTH (SW) & 10/12 PITCH (40 DEG TILT)
- 5- "WORSE SUBURBAN ROOF" IS 270 DEGREE AZIMUTH (DUE WEST) & 12/12 PITCH (45 DEG TILT)
- 6 - EZ-TILT CHANGES TILT ONLY FOUR TIMES ANNUALLY! ... (SEE "SETTINGS")