The sun path chart to the right is for a solar electric system located in Klamath Falls, Oregon tilted 45 degrees with a 90 degree azimuthal orientation. The annual AC output for a system with these characteristics is about 1.08 kWh/Watt DC per year.

For comparison, annual production capacity per Watt of an optimally oriented system (34 degree tilt and 176 degree azimuth) is 1.47 kWh/Watt DC per year.

Local Production Capacity = 1.47 kWh/Watt DC per year.

At Klamath Falls, a system oriented as in the sun path chart to the right will produce 73% of the annual electricity produced by an optimally oriented system.

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For example, assume the percentage of system power output from 7:00 to 8:00 between September 22 and October 21 is 0.4%, and 50% of that period is shaded. Enter 0.2% in the column under 7-8 and the row labeled Feb-Mar on one side and Sep-Oct on the other. Enter zero for each box where there is no shading. Note that hours are in solar time.

Sum the shading values in each column and enter the total in the bottom row. Sum the bottom row to determine the percent annual shading.

Percent Annual Shading: _____