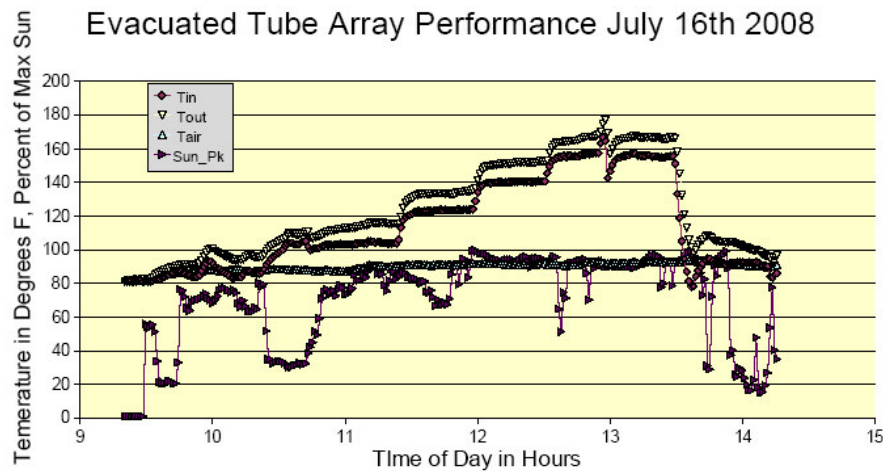


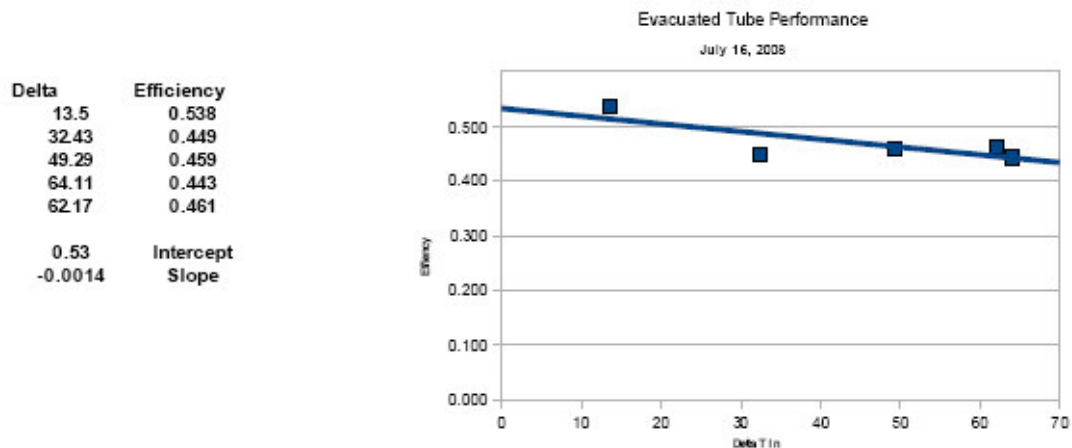
Data Summary for Testing July 16th, 2008 on a 20 tube evacuated array.

Data Fields:

Day: Julian Date with January 1, 2008 = "1".
Hour: Hour of the Day
Min: Minute of the Day
Sec: Second and fractional second of the day when the data was received.
Tin: Inlet temperature in Degrees F
Tout: Outlet temperature in Degrees F.
Tair: Aspirated Air temperature under the array in a shaded location.
HeatIn: Heater inlet temperature in Degrees F.
HeatOut: Heater outlet temperature in Degrees F.
Heat: Control voltage value for 3-phase heater. 2.0 Volts = 0%, 10 Volts = 100%.
Sun0: Uncalibrated lower PSP output scaled to W/m²
Sun1: Calibrated upper PSP output scaled to W/m²
Pin: Array inlet pressure in PSI.
Pout: Array Outlet pressure in PSI.
WinSpd: Wind speed in MPH.
WinDir: Wind direction.



The array was oriented at 53 degrees with respect to the ground (90 = vertical, 0 = horizontal) and we manually tracked the azimuthal solar position so that there were no incident angle effects.



97.997 Watts/DegF at 0.668 GPM Flow
2.71 M² Array Area

Time	Delta_Tavg	PSP W/m ²	Tin - Tair	Watts Out	Panel Watts	Ratio
11:17	11.73	789.05	13.5	1149.83	2138.33	0.538
11:50	10.61	855.26	32.43	1040.17	2317.75	0.449
12:20	11.43	901.06	49.29	1119.62	2441.88	0.459
12:48	10.31	842.11	64.11	1010.77	2282.13	0.443
13:20	10.99	861.23	62.17	1076.57	2333.93	0.461