## Solar panel

Data Literacy Project

**Background**: Chris Olsen’s daughter recorded the following data using a light meter and the charge controller read-out from the solar array on their house.

(Data source: Fathom 2.0 sample document)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Light (Lumens) | Current (Amps) | Voltage (V) | Temperature (degF) | Power (Watts) |
| 56 | 5.41 | 0.97 | 77.9 | 5.2 |
| 48 | 4.64 | 0.83 | 77 | 3.9 |
| 44 | 4.23 | 0.76 | 76.5 | 3.2 |
| 37 | 3.48 | 0.63 | 75.2 | 2.2 |
| 33 | 3.14 | 0.57 | 74.5 | 1.8 |
| 30 | 2.83 | 0.51 | 73.6 | 1.4 |
| 26 | 2.57 | 0.45 | 72.9 | 1.2 |
| 140 | 12.41 | 2.17 | 73.2 | 26.9 |
| 224 | 27.04 | 4.73 | 74.5 | 127.9 |
| 914 | 65.4 | 13.44 | 89.6 | 879.0 |
| 1002 | 107.8 | 13.06 | 113.9 | 1407.9 |
| 1020 | 108.9 | 13.05 | 121.6 | 1421.2 |
| 1037 | 91 | 14 | 125.6 | 1274.0 |
| 1070 | 74.7 | 14.8 | 125.4 | 1105.6 |
| 1096 | 75.9 | 14.77 | 127 | 1121.0 |
| 1114 | 78.1 | 14.75 | 128.8 | 1152.0 |
| 1138 | 83.8 | 14.53 | 129.6 | 1217.6 |
| 1150 | 113.5 | 13.27 | 129.4 | 1506.1 |

1. Write a question that could be answered with the data in this table.
2. Which of the following best describes your question?
	1. It asks about how a measurement varies within one or more groups
	2. It asks about how two groups compare in a single measurement
	3. It asks about the correlation between two variables
	4. It asks about how something changes through time
	5. None of the above describes my question very well
3. What kind of graph would you chose to display the data above so that it answers the question?