Lean direction is not based on a compass heading; in other words, it doesn't mean north-south-east-west. Rather, the lean direction reflects relative changes in "pitch" and "roll", compared to when a TreeTag was last activated.

What does that mean?

Pitch refers to the TreeTag rotating towards you or away from you. Positive pitch means the solar panel faces more downward, relative to where it started; negative pitch means the solar panel faces more upward, relative to where it started.

Roll refers to the TreeTag rotating side-to-side. Facing the solar panel, positive roll means it turned clockwise, relative to where it started; negative roll means it turned counter-clockwise, relative to where it started.

There are 26 possible values for lean direction, which are defined in increments of 360/26.

This is the list of possible values:

Value (°)	Increment	Quadrant	Pitch Component	Roll Component	Description
0	0	+Pitch, 0 Roll	Maximum +Pitch	Zero Roll	Pure forward lean
13.846	1	+Pitch, +Roll	High +Pitch	Low +Roll	Forward-right lean
27.692	2	+Pitch, +Roll	High +Pitch	Medium +Roll	Forward-right lean
41.538	3	+Pitch, +Roll	High +Pitch	High +Roll	Forward-right lean
55.384	4	+Pitch, +Roll	Medium +Pitch	High +Roll	Forward-right lean
69.23	5	+Pitch, +Roll	Medium +Pitch	Very High +Roll	Forward-right lean
83.076	6	+Pitch, +Roll	Low +Pitch	Very High +Roll	Forward-right lean
96.922	7	0 Pitch, +Roll	Zero Pitch	Maximum +Roll	Pure right lean
110.768	8	-Pitch, +Roll	Low -Pitch	Very High +Roll	Backward-right lean
124.614	9	-Pitch, +Roll	Medium -Pitch	High +Roll	Backward-right lean

138.46	10	-Pitch, +Roll	High -Pitch	High +Roll	Backward-right lean
152.306	11	-Pitch, +Roll	High -Pitch	Medium +Roll	Backward-right lean
166.152	12	-Pitch, +Roll	High -Pitch	Low +Roll	Backward-right lean
180	13	-Pitch, 0 Roll	Maximum -Pitch	Zero Roll	Pure backward lean
193.846	14	-Pitch, -Roll	High -Pitch	Low -Roll	Backward-left lean
207.692	15	-Pitch, -Roll	High -Pitch	Medium -Roll	Backward-left lean
221.538	16	-Pitch, -Roll	High -Pitch	High -Roll	Backward-left lean
235.384	17	-Pitch, -Roll	Medium -Pitch	High -Roll	Backward-left lean
249.23	18	-Pitch, -Roll	Medium -Pitch	Very High -Roll	Backward-left lean
263.076	19	-Pitch, -Roll	Low -Pitch	Very High -Roll	Backward-left lean
276.922	20	0 Pitch, -Roll	Zero Pitch	Maximum -Roll	Pure left lean
290.768	21	+Pitch, -Roll	Low +Pitch	Very High -Roll	Forward-left lean
304.614	22	+Pitch, -Roll	Medium +Pitch	High -Roll	Forward-left lean
318.46	23	+Pitch, -Roll	High +Pitch	High -Roll	Forward-left lean
332.306	24	+Pitch, -Roll	High +Pitch	Medium -Roll	Forward-left lean
346.152	25	+Pitch, -Roll	High +Pitch	Low -Roll	Forward-left lean