Wicked Over Hang

MATERIAL: 1 Metal stand
15 Straws
1 Tape dispenser filled with 1 packet of tape
1 200 gm weight for testing

OBJECT: To construct a wicked over hang from straws and tape that can support a force, F, exerted at some horizontal distance, D, from the post. Judges will record maximum force applied by the force sensor until the construction fails (i.e. a straw/tape snaps/breaks). Teams are provided with sample weights for basic testing purposes only.

SCORING: Maximize $F \times D$

Maximum force recorded on sensor

Distance away from stand weight was hung

Score

\[
F = \\
D = \\
F \times D =
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