

```

{
  "tag": {},
  "simulation": {
    "constant_density": false,
    "time_step[sec]": 0.05,
    "total_time[sec]": 250,
    "ground_altitude[ft]": 4711
  },
  "aircraft": {
    "wing_area[ft^2]": 6.5625,
    "wing_span[ft]": 12.5,
    "weight[lbf]": 0.7871061038574173,
    "Ixx[slug-ft^2]": 0.0592234767973423,
    "Iyy[slug-ft^2]": 0.06740730255842209,
    "Izz[slug-ft^2]": 0.11730800569057465,
    "Ixy[slug-ft^2]": -5.378096318657965e-18,
    "Ixz[slug-ft^2]": 0.001854020170867443,
    "Iyz[slug-ft^2]": -3.024066013860459e-20,
    "hx[slug-ft^2/s]": 0,
    "hy[slug-ft^2/s]": 0,
    "hz[slug-ft^2/s]": 0,
    "name": "Glidezilla"
  },
  "analysis" : {
    "density[slugs/ft^3]" : 0.002048
  },
  "initial": {
    "airspeed[ft/s]": 13.228,
    "altitude[ft]": 4761,
    "heading[deg]": 0,
    "type": "state",
    "state": {
      "elevation_angle[deg]": 0,
      "bank_angle[deg]": 0,
      "alpha[deg]": 0,
      "beta[deg]": 0,
      "p[deg/s]": 0,
      "q[deg/s]": 0,
      "r[deg/s]": 0,
      "aileron[deg]": 0,
      "elevator[deg]": 0,
      "rudder[deg]": 0,
      "throttle": 0
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  },
  "aerodynamics": {
    "ground_effect": {
      "use_ground_effect": true,
      "taper_ratio": 1
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    "gust_magnitude[ft/s]": 2,
    "stall": {
      "use_stall_model": true,
      "alpha_blend[deg]": 10.8,
      "blending_factor": 40
    },
    "CL": {
      "0": 0.874468159176983,
      "alpha": 5.77895550222956,
      "alpha_hat": 0.7557,
      "qbar": -1.24490516313209,
      "de": 0
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    "CS": {

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        "beta": -0.685694937509146,
        "pbar": -0.5694044991615445,
        "Lpbar": -0.06543664639406889,
        "rbar": 0.462982765621289,
        "da": 0,
        "dr": 0
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    "CD": {
        "L0": 0.012855925245496318,
        "L": -0.007546501315798773,
        "L2": 0.027579214254294424,
        "S2": 0.5419585059892205,
        "qbar": 0.10231144170040865,
        "Lqbar": 0.5871488192071522,
        "L2qbar": -0.27721609648644296,
        "de": 0,
        "Lde": 0,
        "de2": 0
    },
    "C1": {
        "beta": -0.285615550230067,
        "pbar": -0.611103727723306,
        "rbar": 0.10251352267177007,
        "Lrbar": 0.222959544927281,
        "da": 0,
        "dr": 0
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    "Cm": {
        "0": 0.0000363451326770887,
        "alpha": -1.73455105838682,
        "alpha_hat": -1.9067,
        "qbar": -23.7446343184934,
        "de": 0
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    "Cn": {
        "beta": 0.0386849290954465,
        "pbar": 0.06446871725468487,
        "Lpbar": -0.16860800607194723,
        "rbar": -0.0457947904874399,
        "da": 0,
        "Lda": 0,
        "dr": 0
    }
}
}

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