



Figure 4—Drop pattern characteristics for the Marsh Turbo Thrush with an airspeed of 80 knots (92 mph) and a drop height of 31 feet. The contour lines are at coverage levels of 0.5, 1, 2, 3, 4, 6, 8, and 10 gallons per 100 square feet.

The tables are constructed by selecting the drop producing the longest length of line (on the ground) at each coverage level from the drop tests. The tables may be used to estimate the door opening required to produce the maximum length

of line for a given coverage level. To select the proper door opening, use Table 1 to determine the coverage level required by the NFDRS or Fire Behavior Fuel Model. The coverage levels in Table 1 represent the

coverage level required for average fire intensity for each fuel model. The required coverage level can be adjusted up or down depending on the actual fire intensity. Once the required coverage level is determined, the ideal

door opening can be found. Use the table for the material dropped (water, foam, or gum-thickened retardant) to find the door opening that produces the longest line for the desired coverage level.



Figure 3—Drop test of the Marsh Turbo Thrush.

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