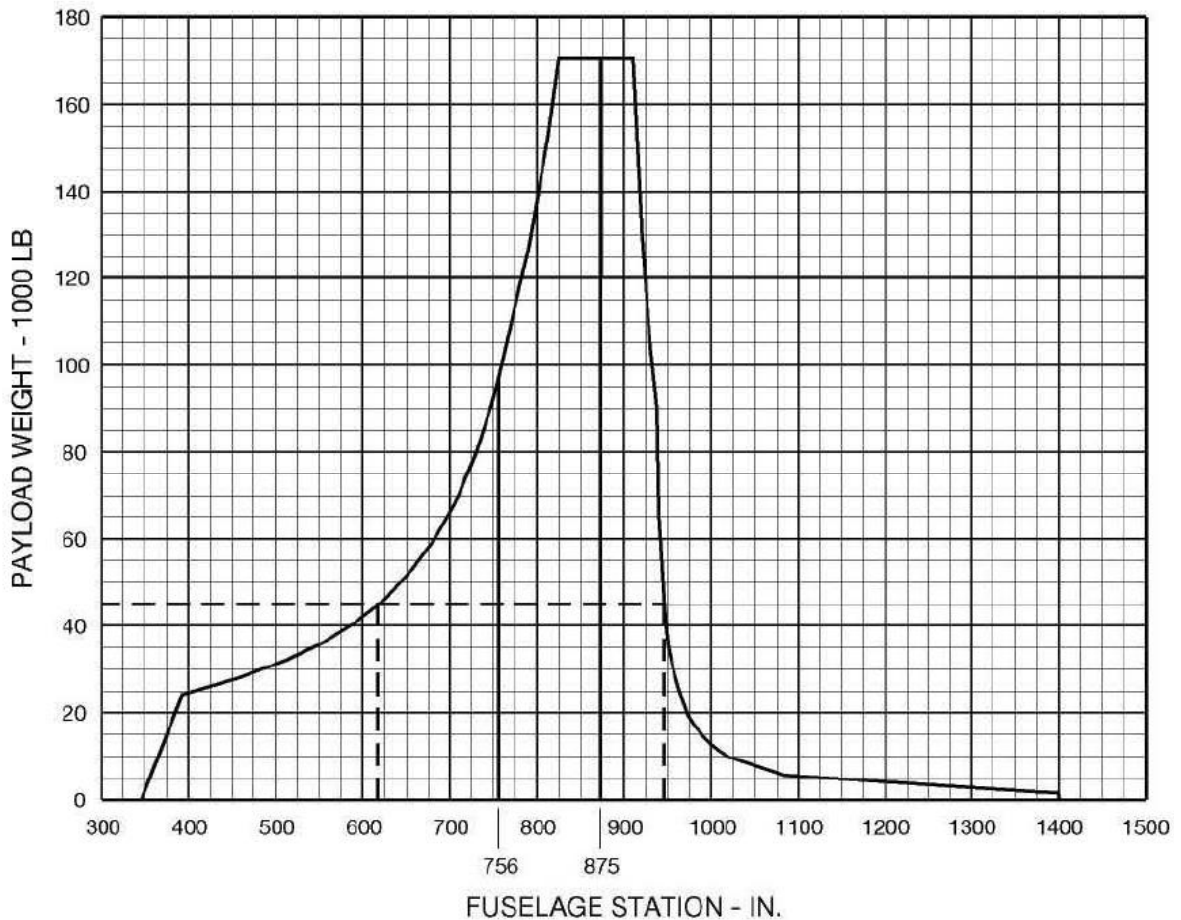


MIL-STD-1791A

APPENDIX B



NOTE

- THIS GRAPH DEPICTS THE CG RANGE IN WHICH THE PAYLOAD MAY BE LOADED.
- THESE DATA ARE FOR PLANNING PURPOSES ONLY. THE RESULTS ARE APPROXIMATE. FINAL LOADING OPERATIONS MUST BE CHECKED FOR INDIVIDUAL AIRCRAFT.
- THIS GRAPH IS BASED ON AN OPERATING WEIGHT OF 276,500 LB AND OPERATING CG AT FS 918.
- 50 % OF FLAT FLOOR IS FS 756.0.
- 50 % OF FLAT FLOOR AND RAMP IS FS 875.0.

EXAMPLE:

DETERMINE THE CG LIMITS FOR A PAYLOAD OF 45,000 LB.

1. ENTER THE GRAPH ON THE VERTICAL SCALE AT THE 45,000 LB PAYLOAD WEIGHT.
2. FROM THIS POINT, EXTEND A LINE HORIZONTALLY UNTIL IT INTERSECTS THE FORWARD LIMIT, THEN MOVE DOWN THE GRAPH VERTICALLY TO READ THE FORWARD FUSELAGE STATION. THIS IS FS 616.
3. USING THE SAME HORIZONTAL LINE, EXTEND THE LINE UNTIL IT INTERSECTS THE AFT FUSELAGE STATION LIMITS THEN MOVE DOWN THE GRAPH VERTICALLY TO READ THE AFT FUSELAGE STATION. THIS IS FS 945.
4. THE HORIZONTAL LINE DRAWN AT 45,000 LB INDICATES THE CG LIMITS FOR THAT PAYLOAD MUST BE BETWEEN FS 616 AND FS 945.

FIGURE –B-72. Cargo weight loading envelope (non-E/R)