



Tweed-New Haven's Corporate Aviation Center

REVISED WEIGHT & BALANCE

AIRCRAFT MAKE: PIPER N32028

DATE 28 DEC 05

MODEL: PA-28-140 S/N 28-7525013

TACH

<u>ITEM</u>	<u>WEIGHT</u>	<u>ARM</u>	<u>MOMENT</u>
PREVIOUS A/C EMPTY:	<u>1381.2</u>	<u>86.55</u>	<u>119549.47</u>
<u>REMOVED THE FOLLOWING:</u>			
<u>WINDSHIELDS</u>	<u>- 7.6</u>	<u>68.8</u>	<u>- 522.88</u>
<u>INSTALLED THE FOLLOWING:</u>			
<u>1/4" THICK WINDSHIELDS</u>	<u>+ 15.2</u>	<u>68.8</u>	<u>1045.76</u>
REVISED A/C EMPTY:	<u>1388.8</u>	<u>86.46</u>	<u>120072.35</u>

NEW EMPTY WEIGHT: 1388.8

NEW CENTER OF GRAVITY: 86.46

NEW MOMENT: 120072.35

NEW USEFUL LOAD: 761.20

SAMPLE LOADING PROBLEM (Normal Category)

	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Licensed Empty Weight			
Oil (8 quarts)	15	32.5	488
Pilot and Front Passenger	340	85.5	29070
Passengers, Aft *		117.0	
Fuel (50 Gal. Maximum)		95.0	
Baggage * Area 1		117.0	
Baggage * Area 2		133.3	
Total Loaded Airplane			

The center of gravity (C.G.) of this sample loading problem is at _____ inches aft of the datum line. Locate this point () on the C.G. range and weight graph. Since this point falls within the weight - C.G. envelope, this loading meets the weight and balance requirements.

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY.

- *Utility Category Operation - No baggage or aft passengers allowed.
- Normal Category Operation - See Page 5-11.

