Bootst2a.xls (C) 1999, Flight Physics N224XS

Part A. Getting the Propeller's Blade Activity Factor and Total Activity Factor.

Cells awaiting input are light green. *Cells with Europa data entered are Blue*

Data Sheet for Recording Propeller Blade Widths

Initial Input Data

R	32.9	in.	Propeller blade radius
BB	3		Number of blades

Print out A13:H50 with empty columns F and G, then measure and record your blade's width data, finally enter that data below.

	Distance to Station from Tip of Blade, inches.				Blade Width at Station, inches.			
Station x = r/R	Decimal Inches	Whole Number	16ths		Whole Number	16ths	Decimal Inches	Integrand
1.00	0.00	0	0.0	/16 in.			3.02	3.021
0.95	1.65	1	10.3	/16 in.			3.16	2.705
0.90	3.29	3	4.7	/16 in.			3.29	2.401
0.85	4.94	4	15.0	/16 in.			3.40	2.086
0.80	6.58	6	9.3	/16 in.			3.52	1.803
0.75	8.23	8	3.6	/16 in.			3.61	1.523
0.70	9.87	9	14.0	/16 in.			3.66	1.256
0.65	11.52	11	8.3	/16 in.			3.69	1.013
0.60	13.16	13	2.6	/16 in.			3.68	0.796
0.55	14.81	14	13.0	/16 in.			3.66	0.609
0.50	16.46	16	7.3	/16 in.			3.64	0.455
0.45	18.10	18	1.6	/16 in.			3.63	0.331
0.40	19.75	19	11.9	/16 in.			3.59	0.230
0.35	21.39	21	6.3	/16 in.			3.58	0.154
0.30	23.04	23	0.6	/16 in.			3.38	0.091
0.25	24.68	24	10.9	/16 in.			2.64	0.041
0.20	26.33	26	5.2	/16 in.			1.69	0.013
								0.849

Results: **BAF = 80.63** **TAF = 241.9**