

VARIEZE G-BVAY WING AIRLOADS UP TO 5G AND WING PANEL LOADS UP TO 4G AT MAX AFT C_oG OF 102.2 INCHES

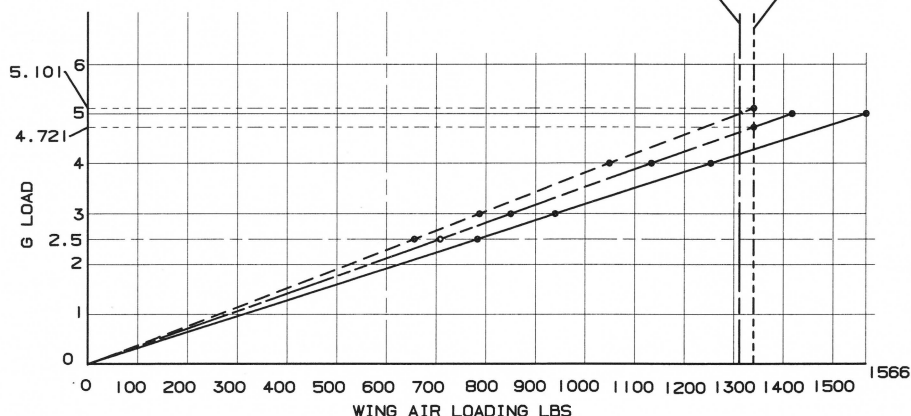
THE TESTED WING WEIGHS 50 LBS THE TEST LOAD WAS 1290 LBS
LOADED AS PER LAA/PFA LOAD SCHEDULE
EQUIV AIR LOAD OF 1340 LB

----- 1050 LB A UW
----- 1135 LB A UW
----- 1250 LB A UW

A/C A UW LBS	WING AIRLOAD AT 5g LBS	WING AIRLOAD AT 4g LBS	WING AIRLOAD AT 3g LBS	WING AIRLOAD AT 2.5g LBS
1050 A UW	1311	1049	787	656
1135 A UW	1417	1133	850	708
1250 A UW	1566	1253	940	783

RUTAN 1050 A UW WING LIMIT LOAD AT 5g=1311 LBS

TEST LOAD OF 1340LBS



VARIEZE G-BVAY WING AIRLOADS PER PANEL AT MAX AFT CENTRE OF GRAVITY OF 102.2 INCHES FOR 1250LB AND 1135LB MTOW AT 2.5G, 3G AND 4G
THE LAST COLUMN IS ACTUAL LOADS USED AND DOES NOT INCLUDE
A DISTRIBUTION OF THE WING WEIGHT OF 50LB WHICH IF ADDED
WOULD OFFER A MORE DIRECT COMPARISON TO THE AIRLOADS COMPILED

WING LOC'N	PANEL NUMBER	WING COEF	1250 A UW MAX AFT C _o G			1135 A UW MAX AFT C _o G			G-BVAY TEST LOADING LBS
			2.5g AIRLOAD 783LBS	3.0g AIRLOAD 940LBS	4.0g AIRLOAD 1253LBS	2.5g AIRLOAD 708LBS	3.0g AIRLOAD 850LBS	4.0g AIRLOAD 1133LBS	
ROOT	1	0.130	102.1	122.2	163.0	92.0	110.5	147.00	180.0
	2	0.125	98.0	117.5	156.6	88.5	106.25	142.00	170.0
	3	0.120	94.0	113.0	150.4	85.0	102.00	136.00	160.0
	4	0.115	90.0	108.1	144.0	81.0	97.75	130.30	150.0
	5	0.110	86.0	103.4	138.0	78.0	93.5	125.00	140.0
	6	0.10	78.3	94.0	125.0	71.0	85.0	113.00	130.0
	7	0.090	70.3	84.6	113.0	64.0	76.5	102.00	110.0
	8	0.080	62.3	75.2	100.0	57.0	68.0	91.00	100.0
	9	0.070	55.0	66.0	88.0	49.0	59.50	79.30	80.0
TIP	10	0.06	47.0	56.4	75.0	42.5	51.0	68.00	70.0
COL SUM		1.00	783.00	940.00	1253.0	708.0	850.0	1133	1290

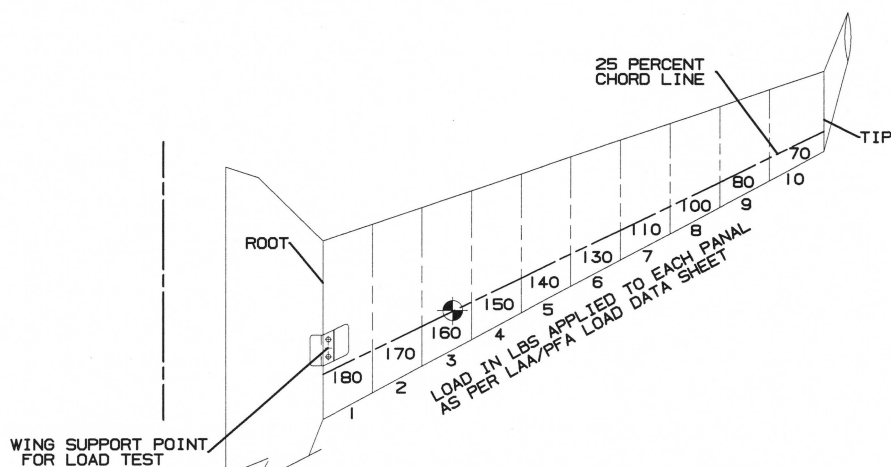
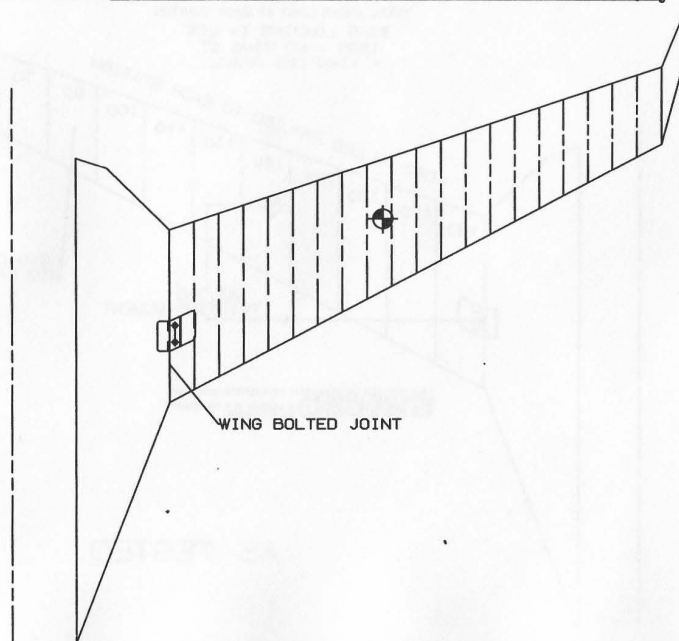
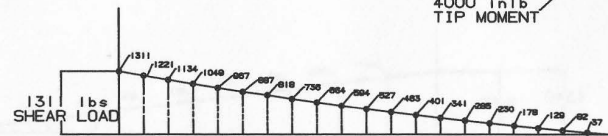
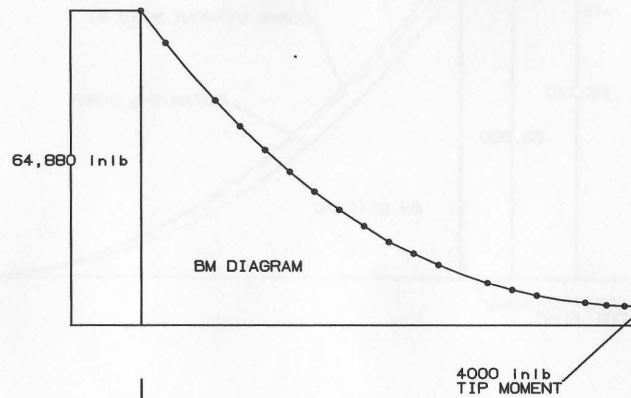


DIAGRAM OF TESTED WING

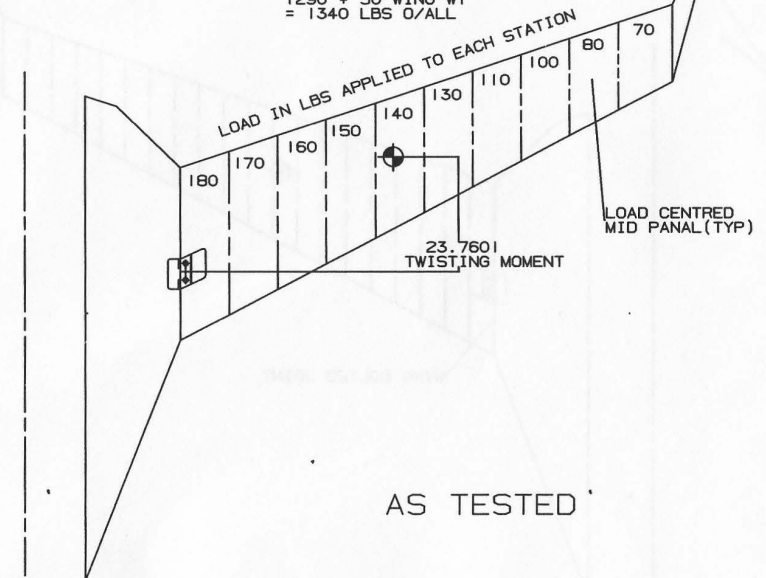
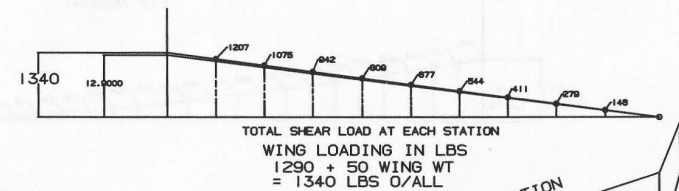
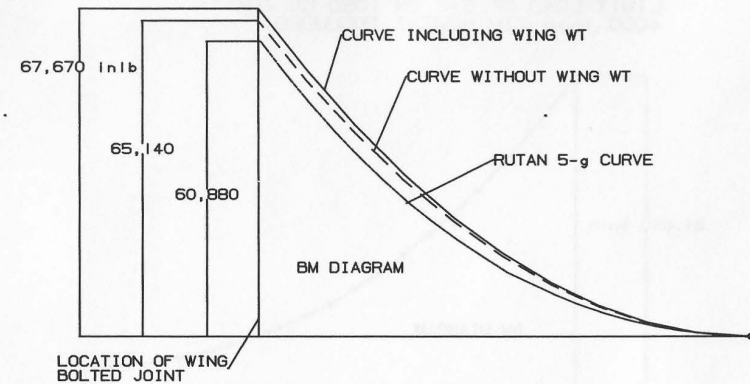
RUTAN RESULTS PLOTTED

RUTAN CANARD PUSHER REFERENCE CP21 PAGE 8
RESULTS SHOWN ARE FOR-
SHORTENED CANARD 142 INCHES
WORST CASE -AFT CofG LIMIT ie MAX WING LOAD
LIMIT LOAD OF 5-G ON 1050 LB AUW
4000 inlb TIP MOMENT INCLUDED



TEST RESULTS PLOTTED

RESULTS OF TEST CARRIED OUT ON VARIZE G-BVAY
TOTAL WING LOAD OF 1290 lb ON EACH WING
WING WEIGHT OF 50lb INCLUDED IN CALCULATION
NO TIP MOMENT



AS TESTED