

insert desired cord length and change upper and lower %'s to create the coordinates for your new airfoil

cord length 55

airfoil name NACA 4412

station %	station in	upper %	upper in	lower%	lower in
0%	0	0	0	0.00%	0
1.25%	0.6875	2.44%	1.342	-1.43%	-0.7865
2.55%	1.4025	3.39%	1.8645	-1.95%	-1.0725
5%	2.75	4.73%	2.6015	-2.49%	-1.3695
7.50%	4.125	5.76%	3.168	-2.74%	-1.507
10%	5.5	6.59%	3.6245	-2.86%	-1.573
15%	8.25	7.89%	4.3395	-2.88%	-1.584
20%	11	8.80%	4.84	-2.74%	-1.507
25%	13.75	9.41%	5.1755	-2.50%	-1.375
30%	16.5	9.76%	5.368	-2.26%	-1.243
40%	22	9.80%	5.39	-1.80%	-0.99
50%	27.5	9.19%	5.0545	-1.40%	-0.77
60%	33	8.14%	4.477	-1.00%	-0.55
70%	38.5	6.69%	3.6795	-0.65%	-0.3575
80%	44	4.89%	2.6895	-0.39%	-0.2145
90%	49.5	2.71%	1.4905	-0.22%	-0.121
95%	52.25	1.47%	0.8085	-0.16%	-0.088
100%	55	0.13%	0.0715	-0.13%	-0.0715

insert known cord length and know coordinates to find the %'s of the upper and lower coordinates to the cord length

cord length 54

airfoil name Legal Eagle Ultralight

station %	station in	upper in	upper %	lower in	lower %
0%	0	0	0.00%	0	0.00%
1.25%	0.675	1.531	2.84%	-1.078	-2.00%
2.55%	1.377	2.171	4.02%	-1.484	-2.75%
5%	2.7	3.187	5.90%	-1.906	-3.53%
7.50%	4.05	3.875	7.18%	-2.078	-3.85%
10%	5.4	4.437	8.22%	-2.125	-3.94%
15%	8.1	5	9.26%	-2.093	-3.88%
20%	10.8	5.406	10.01%	-2	-3.70%
25%	13.5	5.703	10.56%	-1.875	-3.47%
30%	16.2	5.875	10.88%	-1.75	-3.24%
40%	21.6	5.984	11.08%	-1.484	-2.75%
50%	27	5.781	10.71%	-1.281	-2.37%
60%	32.4	5.234	9.69%	-1.046	-1.94%
70%	37.8	4.312	7.99%	-0.781	-1.45%
80%	43.2	3.125	5.79%	-0.562	-1.04%
90%	48.6	1.671	3.09%	-0.321	-0.59%
95%	51.3	0.859	1.59%	-0.171	-0.32%
100%	54	0.062	0.11%	0	0.00%