

Table 4-2. Stick Length Data for US-3RV System

<i>Range (nm)</i>	<i>Down Range Stick (nm)</i>	<i>Cross Range Stick (nm)</i>
2000	756	286
2500	988	331
2750	1128	347
3000	1265	363
3250	1418	379
3500	1617	388
3750	1809	402
4000	2015	412
4250	2288	417
4500	2543	422
4750	2802	428
4840	2940	429

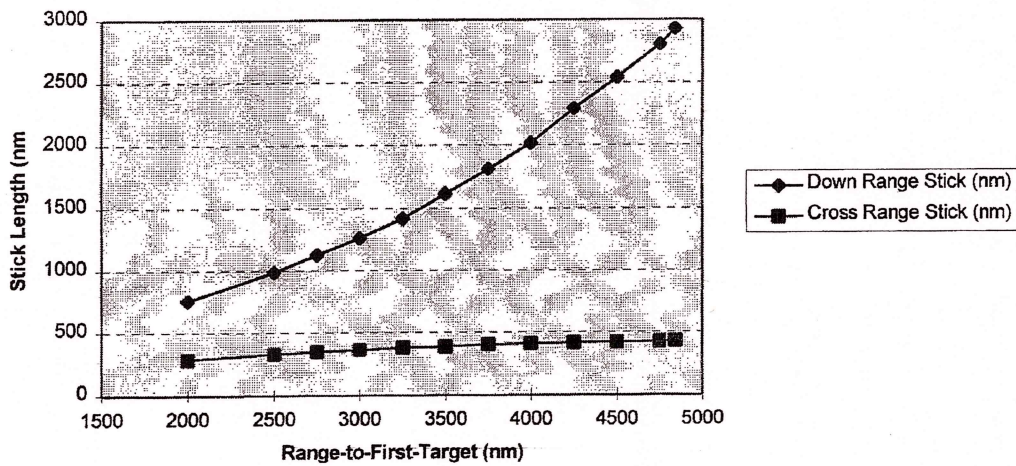


Figure 4-3. Stick Lengths for US-3RV System

Table 4-3. Stick Length Data for US-4RV System

<i>Range (nm)</i>	<i>Down Range Stick (nm)</i>	<i>Cross Range Stick (nm)</i>
2000	847	314
2500	1141	364
2750	1310	387
3000	1484	410
3250	1678	429
3500	1921	441
3750	2161	456
3854	2274	461

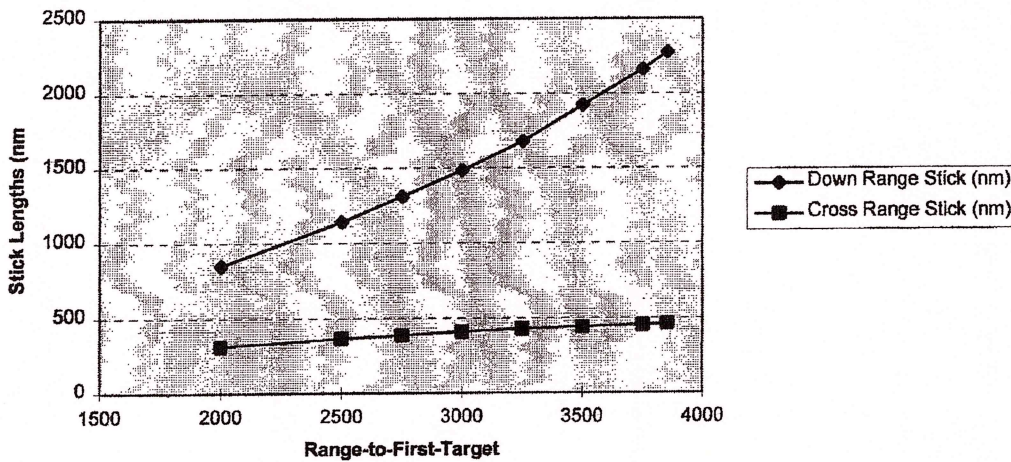


Figure 4-4. Stick Lengths for US-4RV System

To set the scaling parameters and ellipse dimensions, the models require stick length values for a given range-to-first-target. Therefore a mathematical model of the stick length curves is required. An inspection of the plots shows that each stick length