3.3 Evaluation of three-dimensional target strength using acoustic model

An acoustical backscatter model is a quantitative tool used to investigate how sound is reflected from a target. The prolate-spheroid model was used to compare the theoretical TS and measurement TS. Figure 6 show a comparison between the theoretical TS and measured TS functions at fish pitch angles of 0°, 30°, 60°, and 90°.

The results show that the theoretical estimation