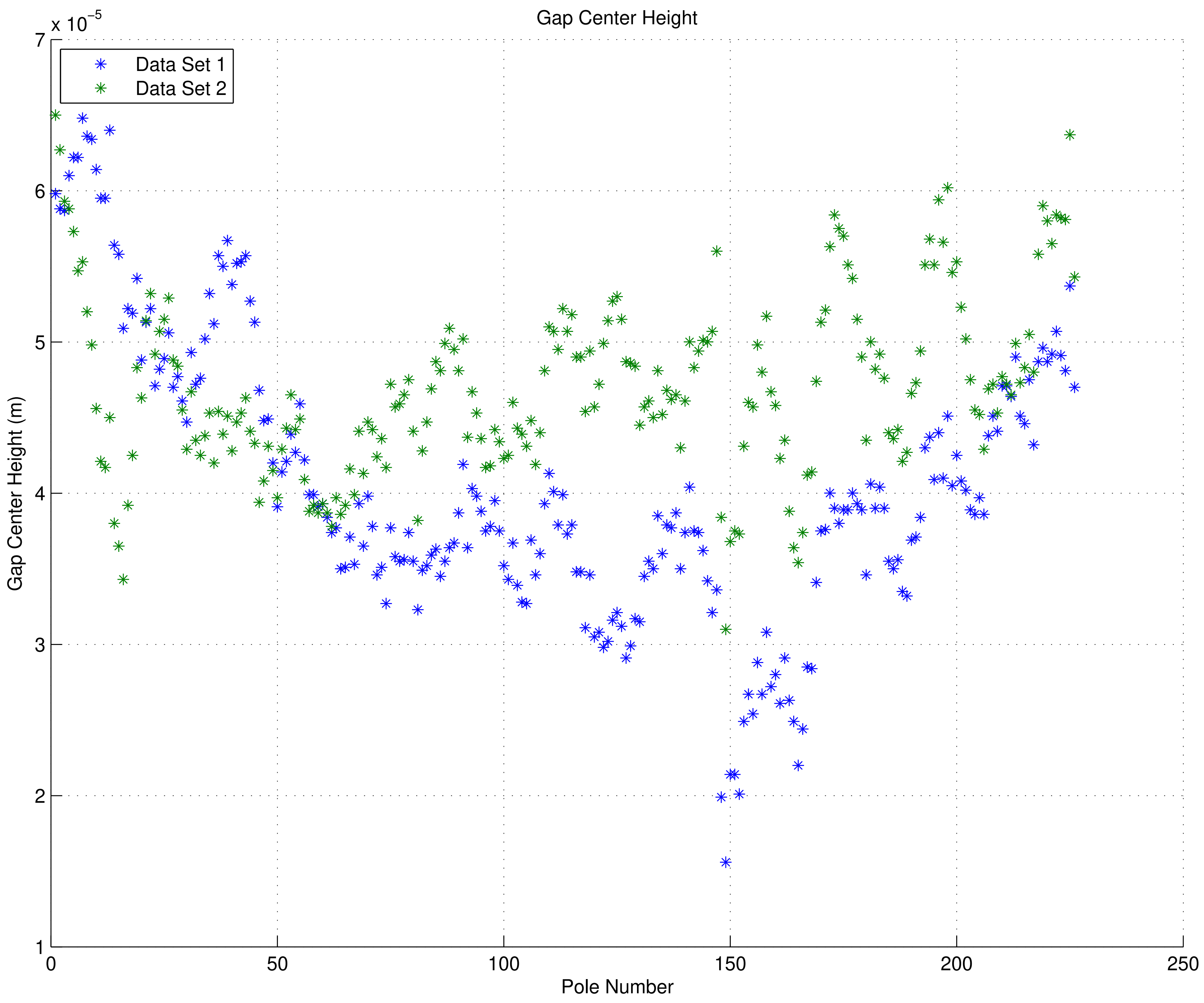
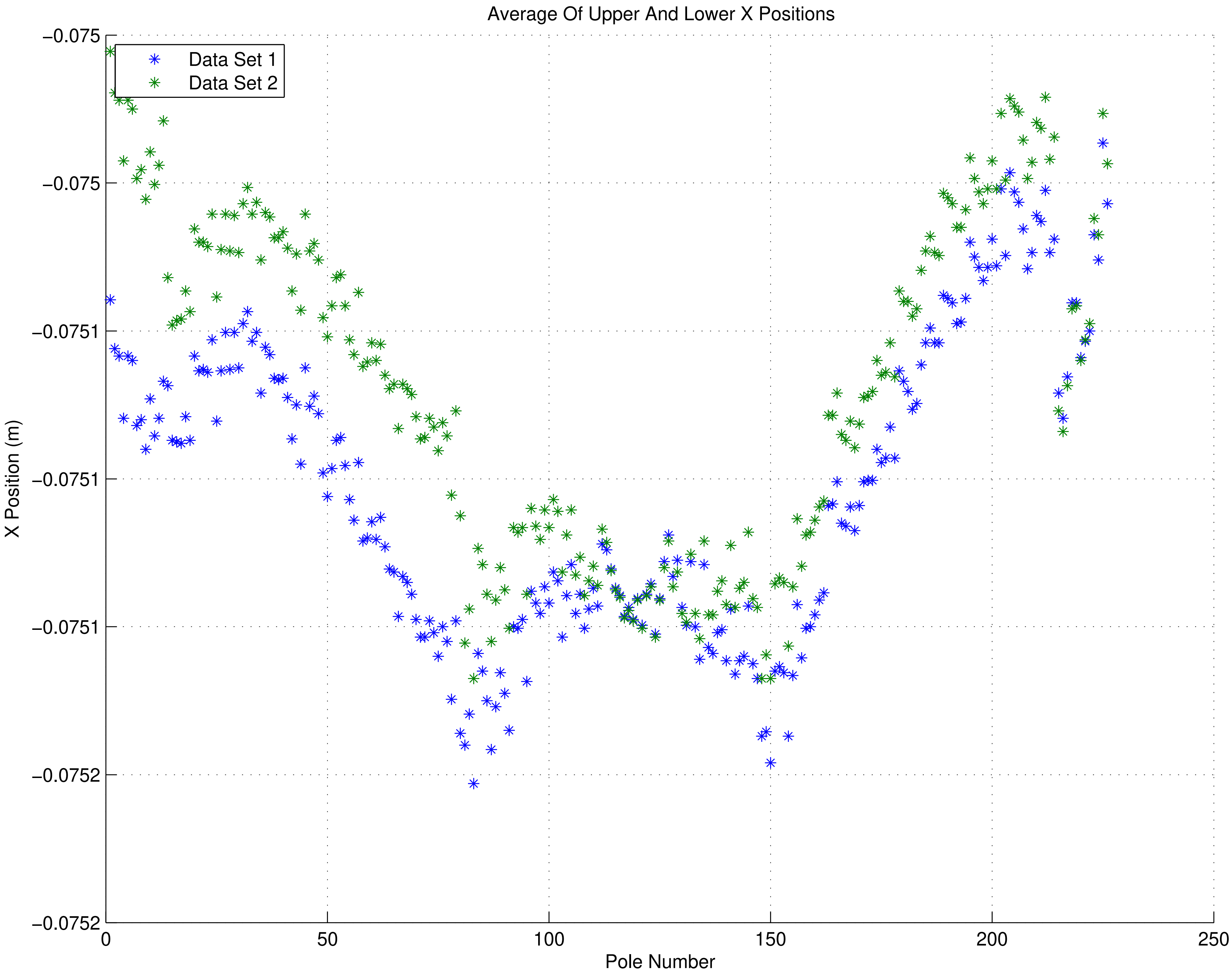
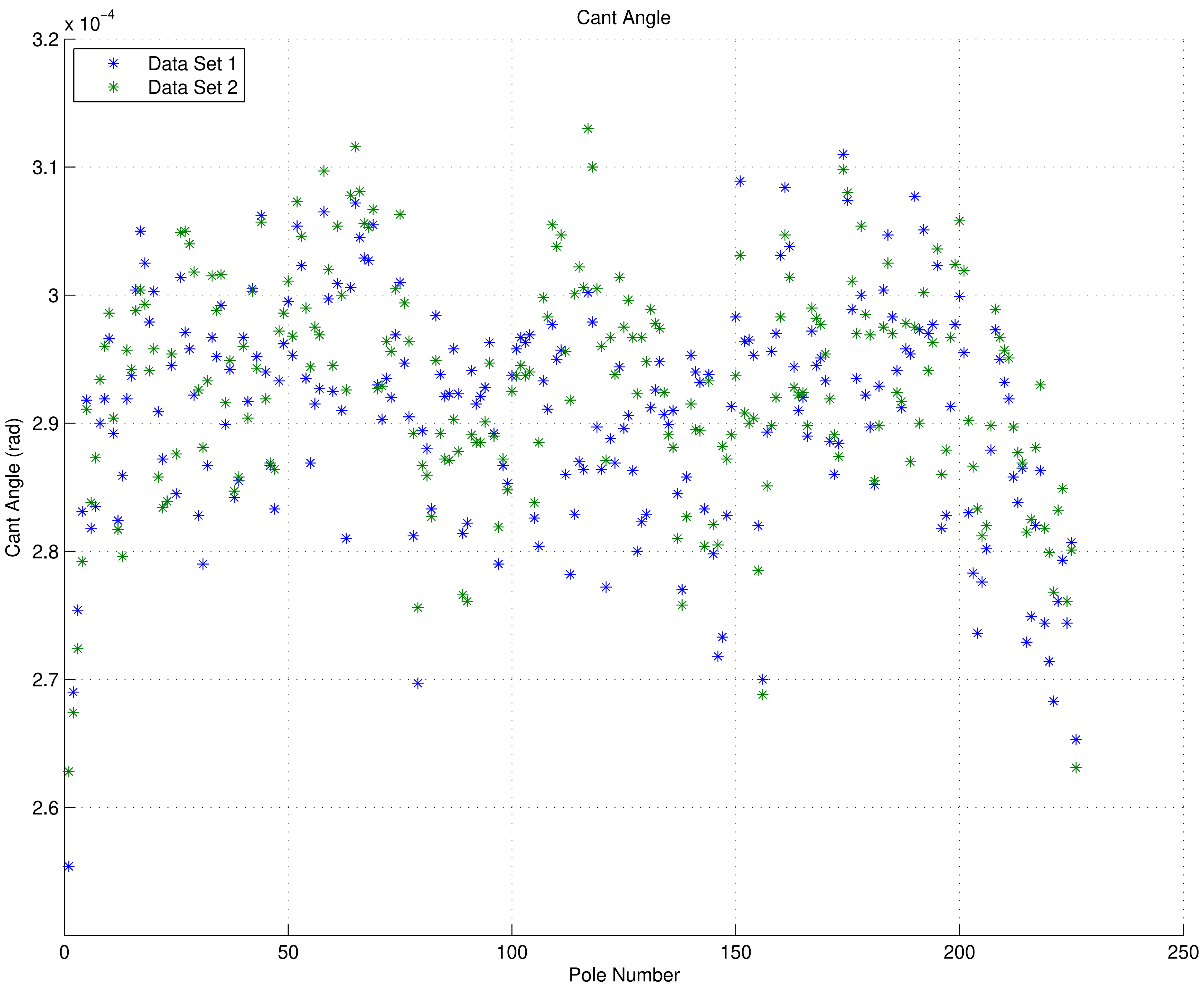
SLAC Magnetic Measurements
CMM Analysis Comparison

Title:
SN05, Gap Shimming

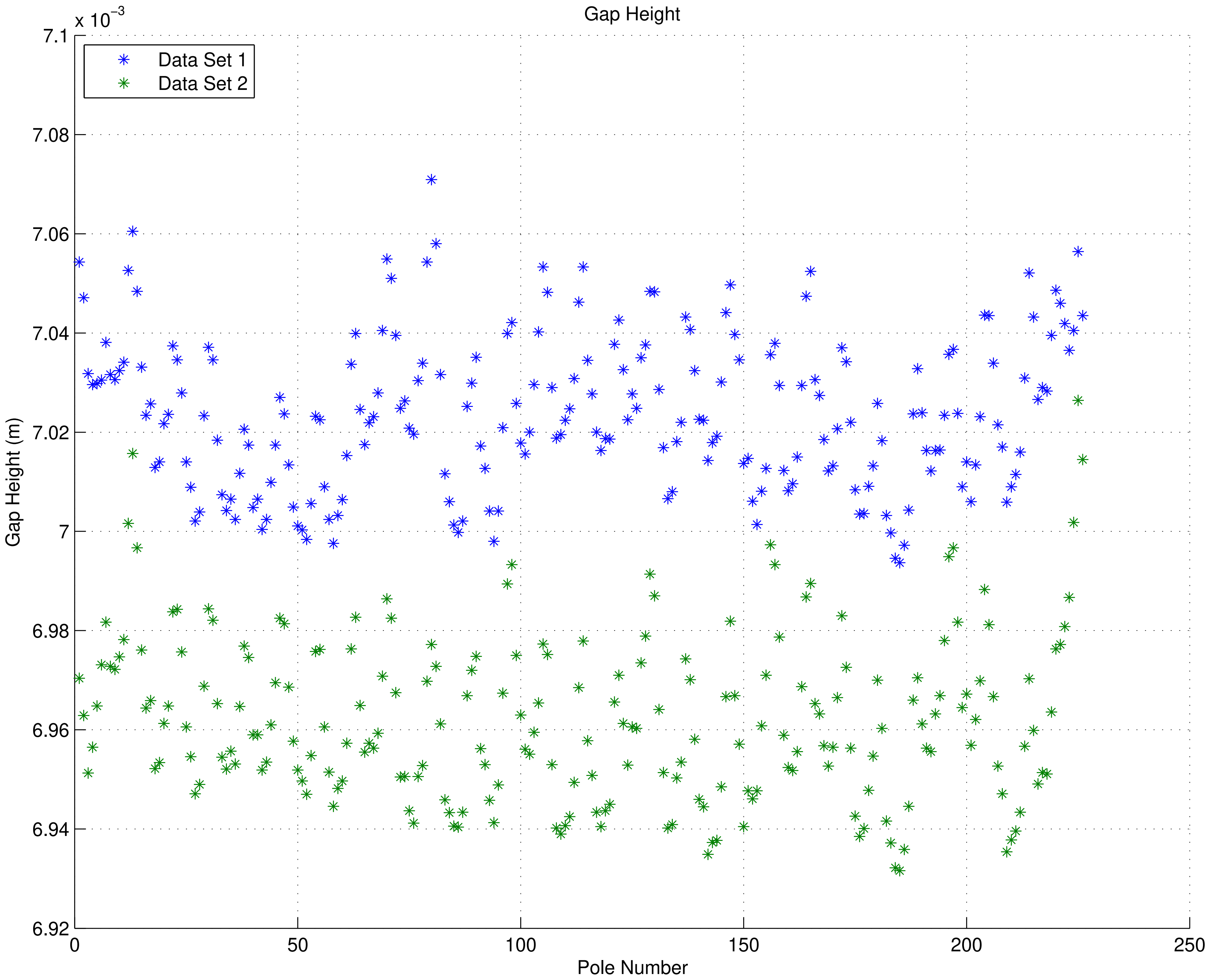
Input Files:
1) S:\MagData\LCLS\Undulator\L143–112000–5 shim check\DATASET0001\MECHANICAL MEASUREMENTS\DATA\cmm_anal
2) S:\MagData\LCLS\Undulator\L143–112000–5 shim test 2\DATASET0001\MECHANICAL MEASUREMENTS\DATA\cmm_anal

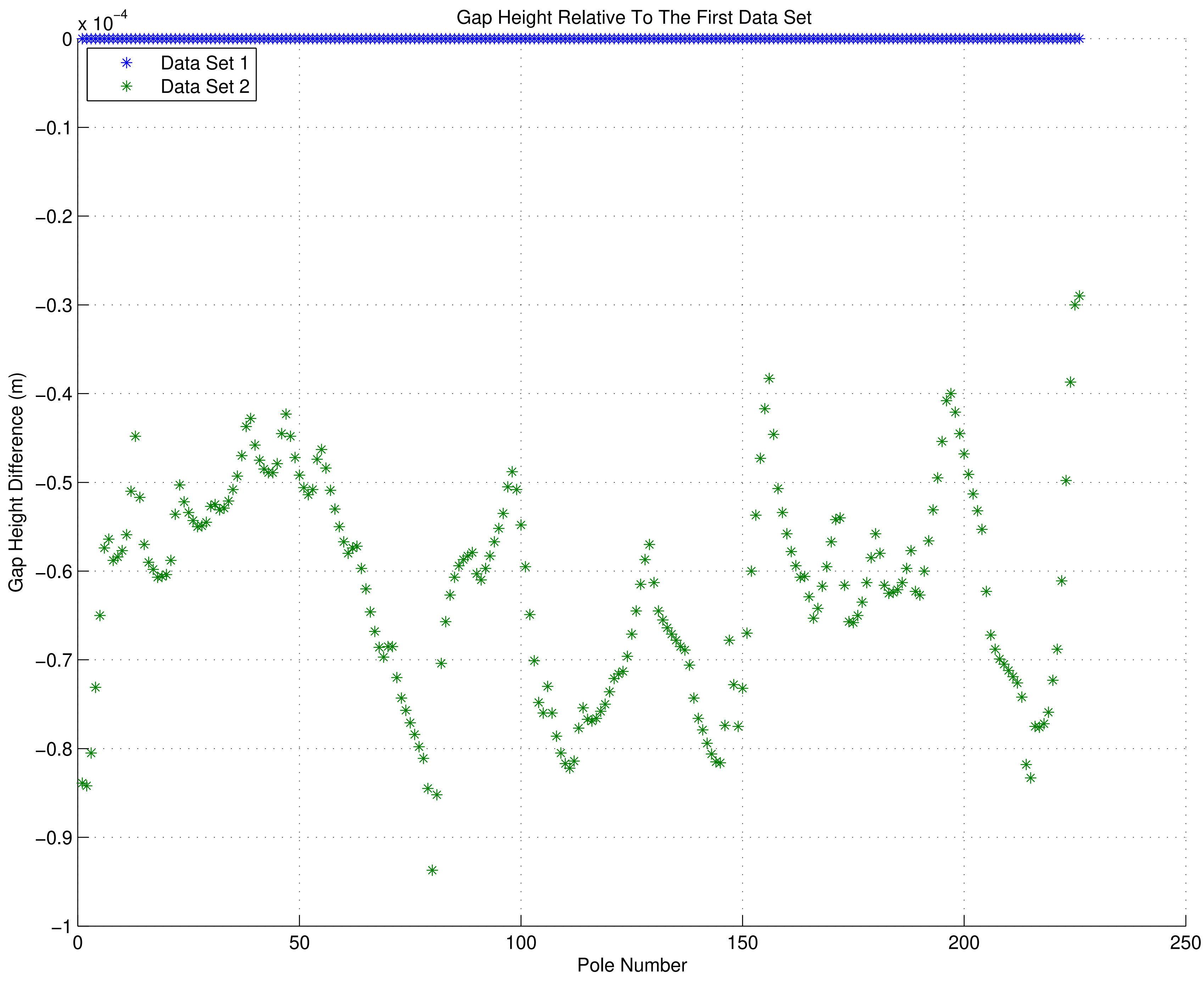

Gap Center Height
x 10^-5
Data Set 1
Data Set 2
Gap Center Height (m)
Pole Number
7
6
5
4
3
2
1
0
50
100
150
200
250


Average Of Upper And Lower X Positions
Data Set 1
Data Set 2
−0.075
−0.075
−0.0751
−0.0751
−0.0751
−0.0752
−0.0752
X Position (m)
0
50
100
150
200
250
Pole Number



Cant Angle
x 10^-4
Data Set 1
Data Set 2
Cant Angle (rad)
Pole Number
3.2
3.1
3
2.9
2.8
2.7
2.6
0
50
100
150
200
250


Gap Height
x 10^-3
7.1
7.08
7.06
7.04
7.02
7
6.98
6.96
6.94
6.92
Gap Height (m)
0
50
100
150
200
250
Pole Number
Data Set 1
Data Set 2


Gap Height Relative To The First Data Set
x 10^-4
Data Set 1
Data Set 2
Gap Height Difference (m)
Pole Number
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
−1
0
50
100
150
200
250