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| jlab Logo***Jefferson Lab Alignment Group*** **Data Transmittal** |
| **TO:** S. Riad | **DATE:** 16 Sep 2015  |
| **FROM:** Jacob Walker  | **Checked:** JCD | **# :**  L1669  |

 **DETAILS:** Data: M:\align\DATA\Step2B\INJ\081215A

Below are the results from the recent survey carried out on the Bubble Chamber. The coordinates below are given in millimeters. A right-handed coordinate system was established with the origin at the intersection of the Main Beamline and the 5D line rotated 25 degrees about the vertical axis. A +X is left, +Y is above, and +Z is downstream from ideal.

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| **Component** | **X** | **Y** | **Z** |
| **Copper Collimator** |   |   |   |
| Upstream | 0.29 | -0.01 | 3299.70 |
| Downstream | 0.04 | 0.00 | 3405.65 |
| **Bubble Chamber** |   |   |   |
| Left Side Flange | 152.54 | -0.14 | 3667.41 |
| Right Side Flange | -183.96 | -0.25 | 3667.56 |
| Upstream Flange | -0.02 | -0.13 | 3483.90 |
| Upstream Entry Hole | 0.15 | -0.28 | 3474.13 |
| Downstream Flange | 0.05 | -0.10 | 3819.32 |
| Downstream Exit Hole | 0.14 | -0.19 | 3860.51 |