each feature wants 2-3 pixels 4000 x 3000 pixels 12 MP: 5.3 pix × 4 pix for a . Imm snowflake 15.8 pix × 11.8 pix for a . 3 mm snowflake Ri = 4000 x 3000 pixels Fov: 76.2mm = 3 inches Rg = 0.1mm Rs= Rf/Fp = Ri= FOV/Rs Plot 4000p = 76.2 mm/Rs Rs = 0.019 pix 0.019 = 0.1mm/Fp Fp = 5.26 pixels 3000p = 76.2 mm/Rs Rs = 0.0254 mm/pix 0.0254 = 0.1 mm/Fp Fp = 3.94 pixels Frame Rate: Speed = 1 m/s or 1000 mm/s Each frame = 76.2 mm 1. Determine distance snowflake travels in I frame within FOV 2. Calculate time for snow flake to travel that distance 3. Take reciprocal Distance traveled: Diagonal - 576.2mm2 = 108 mm V= 0/4

