Tear Down or Repair?  
An Engineer’s Perspective

EF5: Foundation Wiped Clean  
Estimated Wind Speed >200 mph (3 sec gust)
EF4: Homes Leveled
Estimated Wind Speed 166 - 200 mph (3 sec gust)

EF3: Roofs and Walls Torn Off
Estimated Wind Speed 136 - 165 mph (3 sec gust)
EF2: Significant Roof deck loss
Estimated Wind Speed 111 - 135 mph (3 sec gust)
Bolt Breakout → Due to Torsion
EF1: Loss Roof Material < 20%
Estimated Wind Speed 111 - 135 mph (3 sec gust)
Wind flow around a building