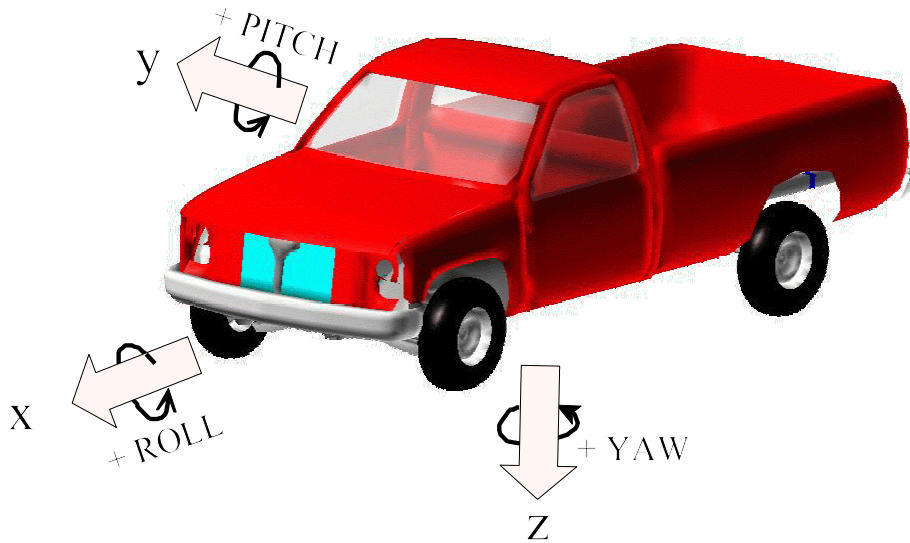


APPENDIX D

Angular Displacement-Time Histories Computed at the Center of Gravity of Vehicle

-Finite Element Analysis Results-



Vehicle fixed coordinate reference system.

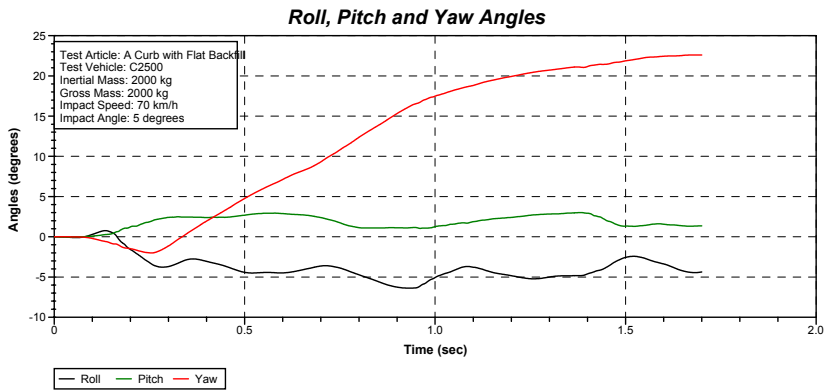


Figure D.1: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO A Curb
Impact Speed -- 70 km/hr
Impact Angle -- 5 degrees.

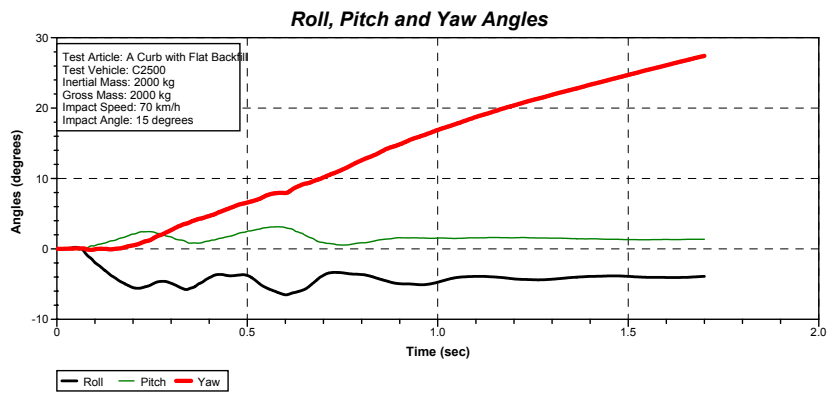


Figure D.2: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO A Curb
Impact Speed -- 70 km/hr
Impact Angle -- 15 degrees.

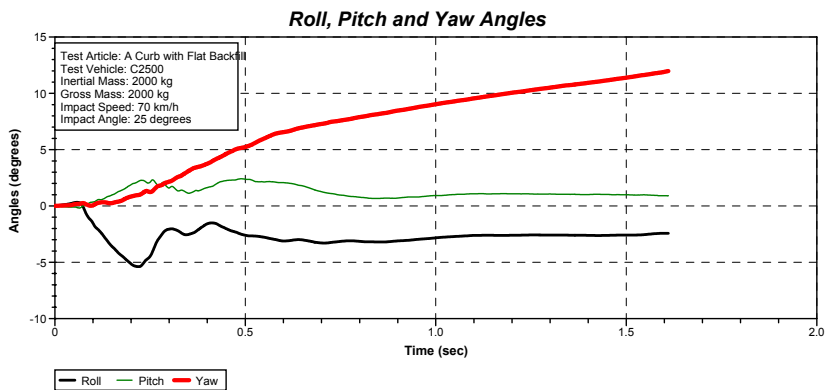


Figure D.3: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO A Curb
Impact Speed -- 70 km/hr
Impact Angle -- 25 degrees.

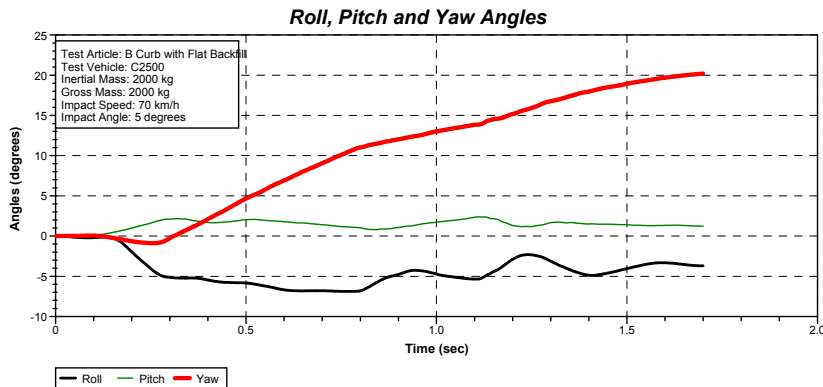


Figure D.4: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed -- 70 km/hr
Impact Angle -- 5 degrees.

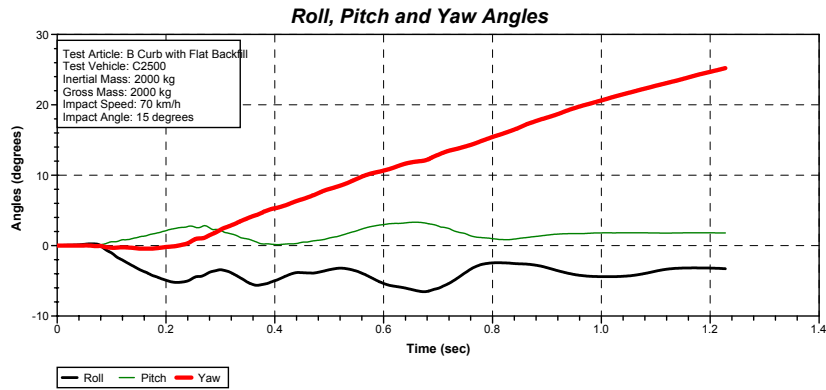


Figure D.5: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed -- 70 km/hr
Impact Angle -- 15 degrees.

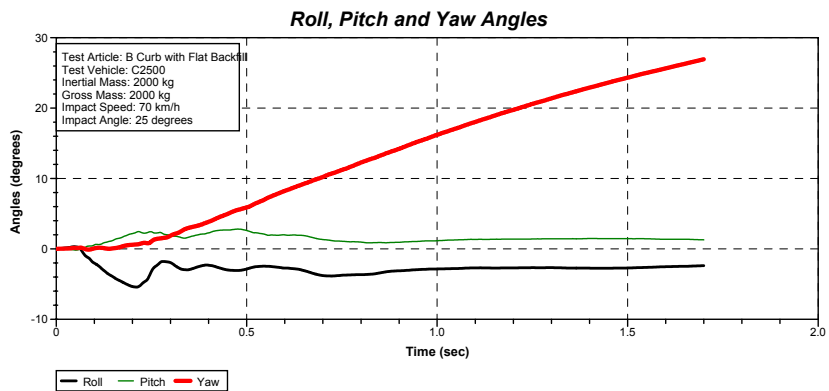


Figure D.6: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed -- 70 km/hr
Impact Angle -- 25 degrees.

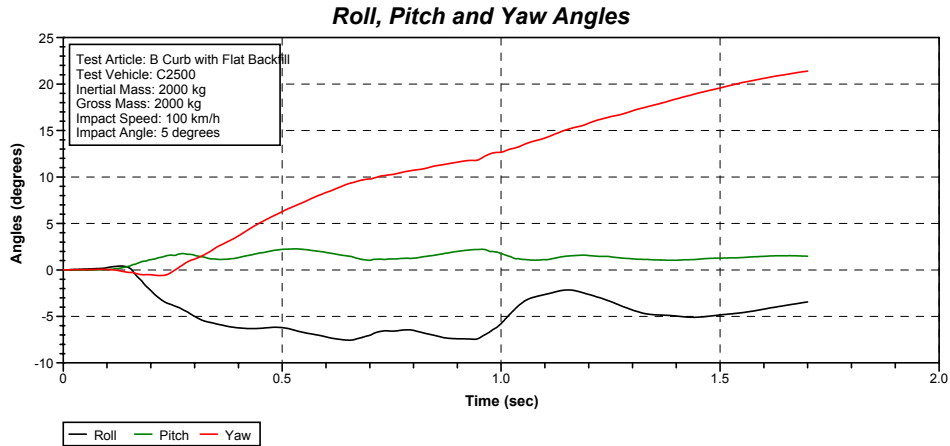


Figure D.7: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed -- 100 km/hr
Impact Angle -- 5 degrees.

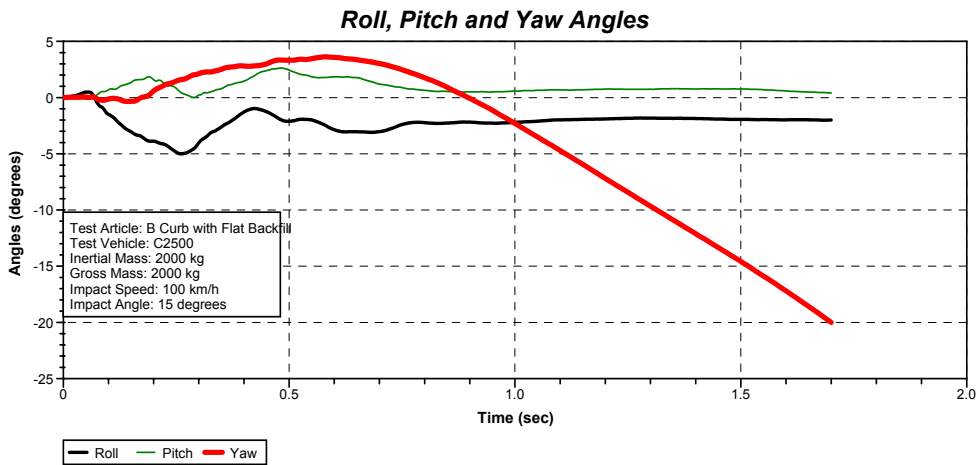


Figure D.8: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed -- 100 km/hr
Impact Angle -- 15 degrees.

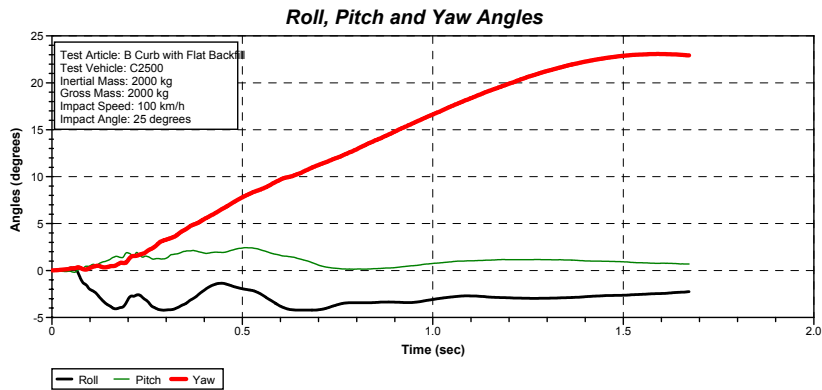


Figure D.9: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed -- 100 km/hr
Impact Angle -- 25 degrees.

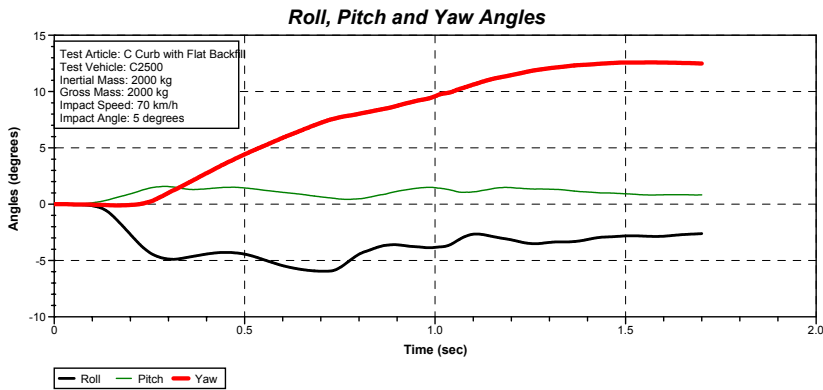


Figure D.10: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed -- 70 km/hr
Impact Angle -- 5 degrees.

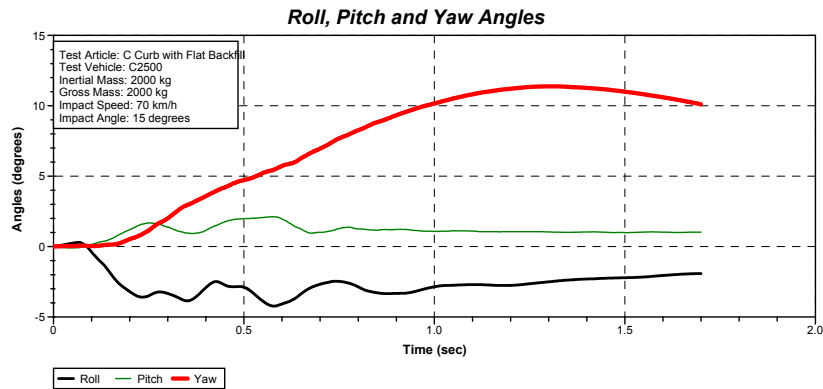


Figure D.11: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed -- 70 km/hr
Impact Angle -- 15 degrees.

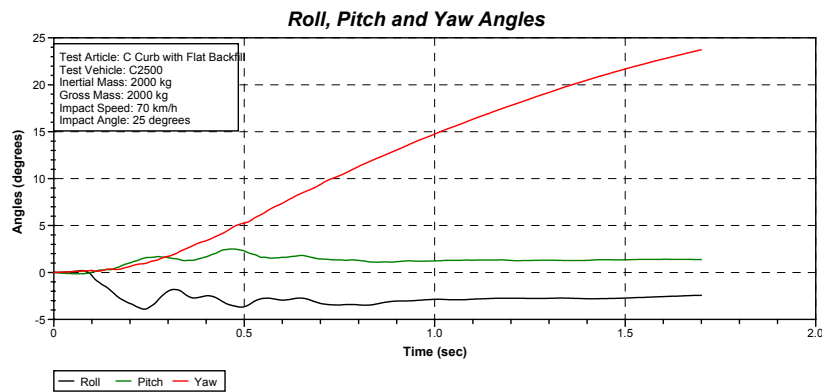


Figure D.12: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed -- 70 km/hr
Impact Angle -- 25 degrees.

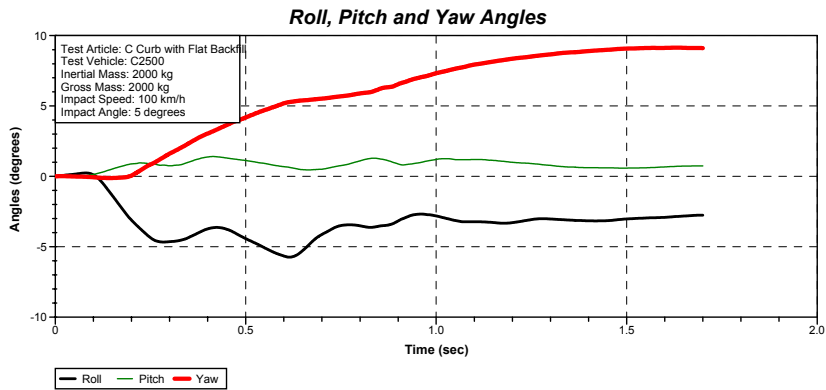


Figure D.13: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed -- 100 km/hr
Impact Angle -- 5 degrees.

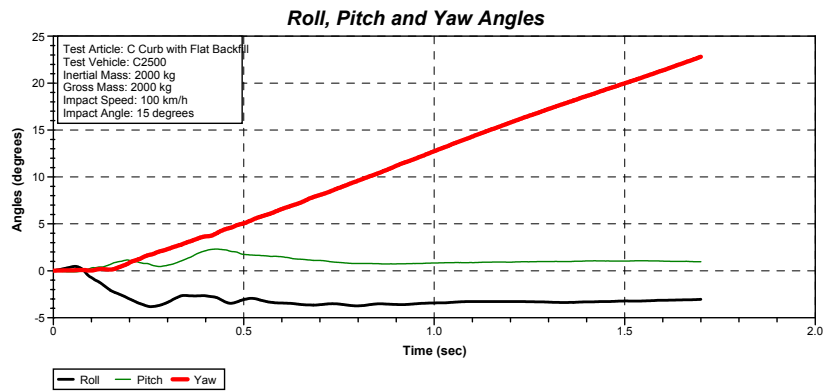


Figure D.14: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed -- 100 km/hr
Impact Angle -- 15 degrees.

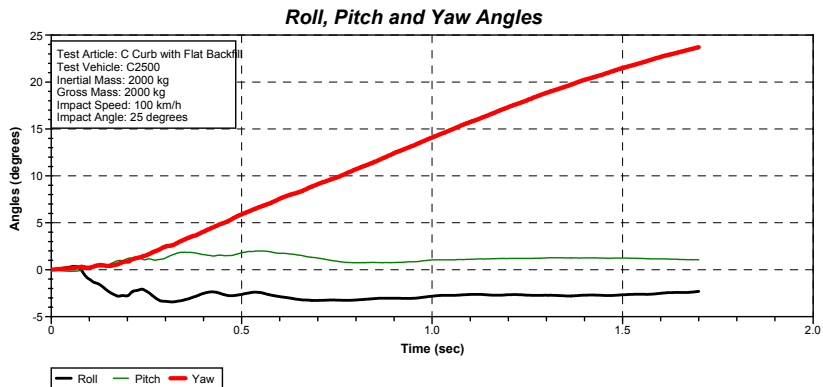


Figure D.15: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed -- 100 km/hr
Impact Angle -- 25 degrees.

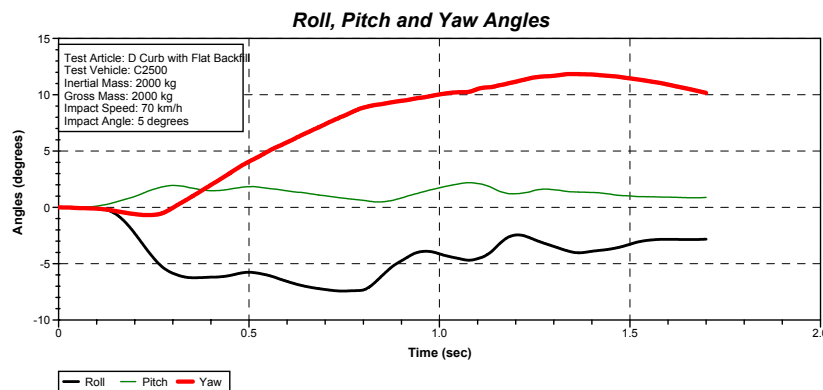


Figure D.16: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO D Curb
Impact Speed -- 70 km/hr
Impact Angle -- 5 degrees.

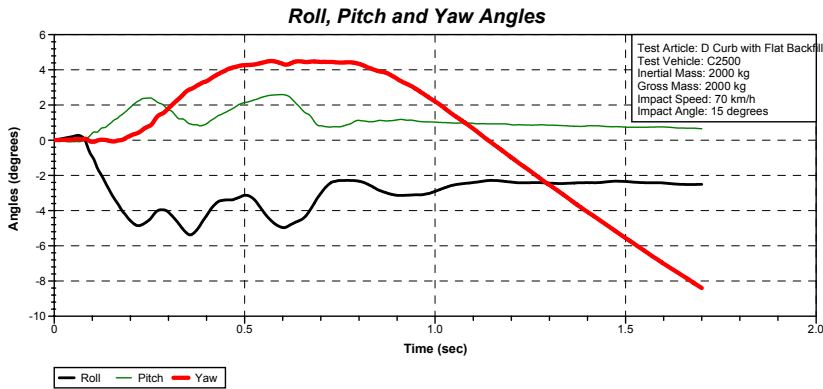


Figure D.17: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO D Curb
Impact Speed -- 100 km/hr
Impact Angle -- 15 degrees.

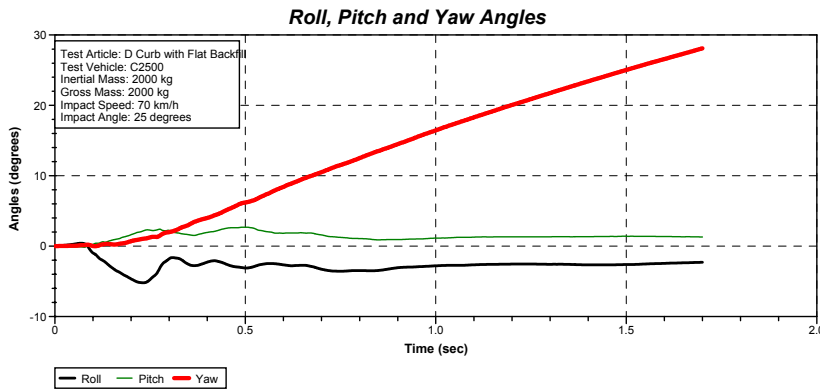


Figure D.18: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO D Curb
Impact Speed -- 70 km/hr
Impact Angle -- 25 degrees.

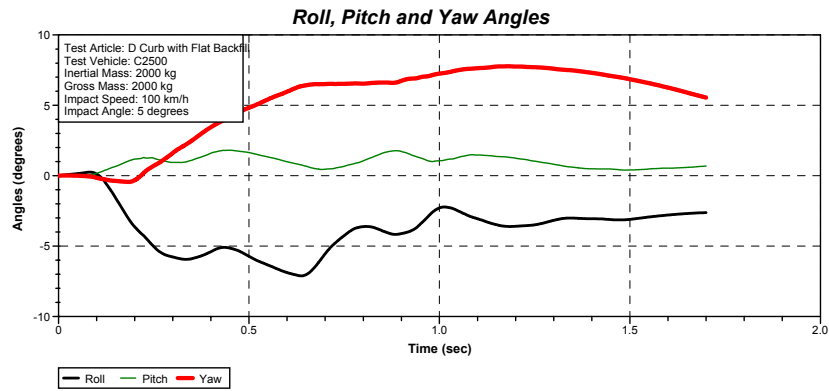


Figure D.19: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO D Curb
Impact Speed -- 100 km/hr
Impact Angle -- 5 degrees.

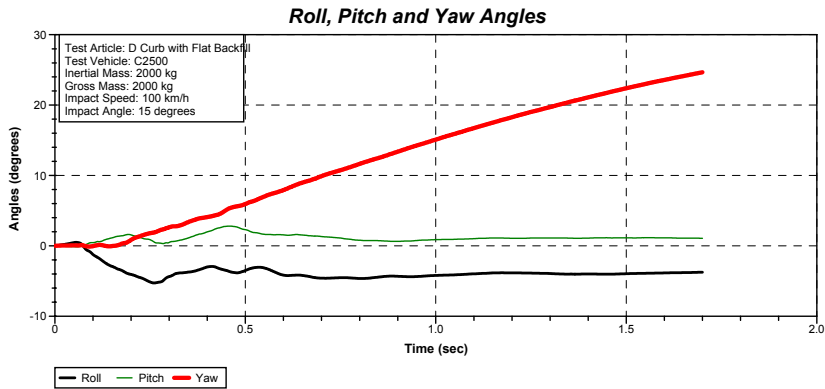


Figure D.20: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO D Curb
Impact Speed -- 100 km/hr
Impact Angle -- 15 degrees.

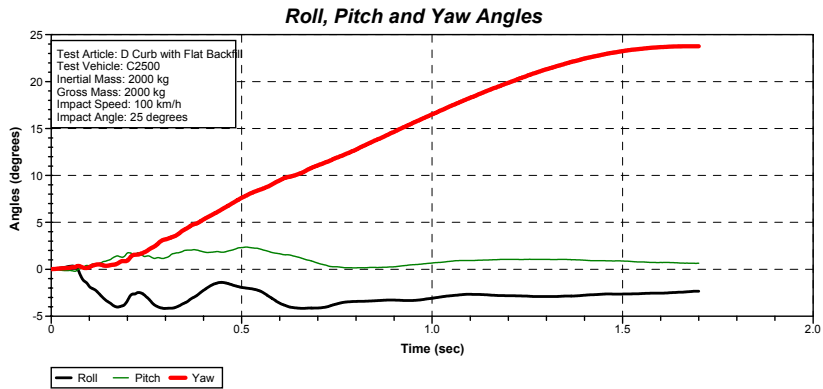


Figure D.21: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO D Curb
Impact Speed -- 100 km/hr
Impact Angle -- 25 degrees.

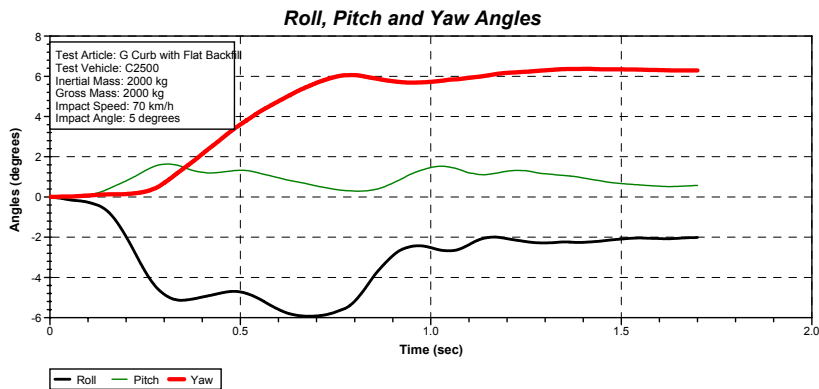


Figure D.22: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO G Curb
Impact Speed -- 70 km/hr
Impact Angle -- 5 degrees.

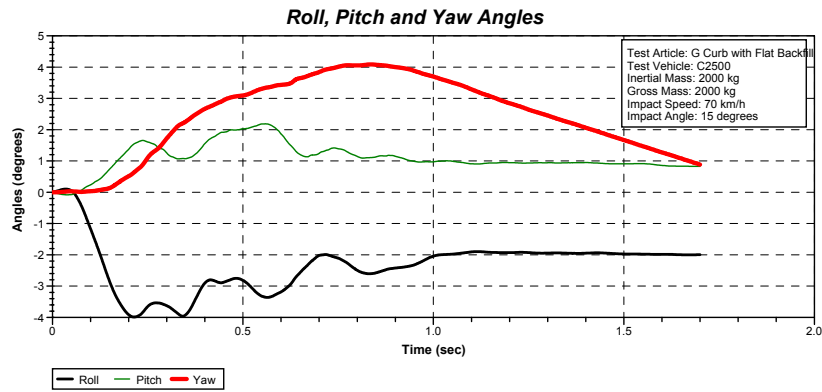


Figure D.23: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
 Curb Type -- AASHTO G Curb
 Impact Speed -- 70 km/hr
 Impact Angle -- 15 degrees.

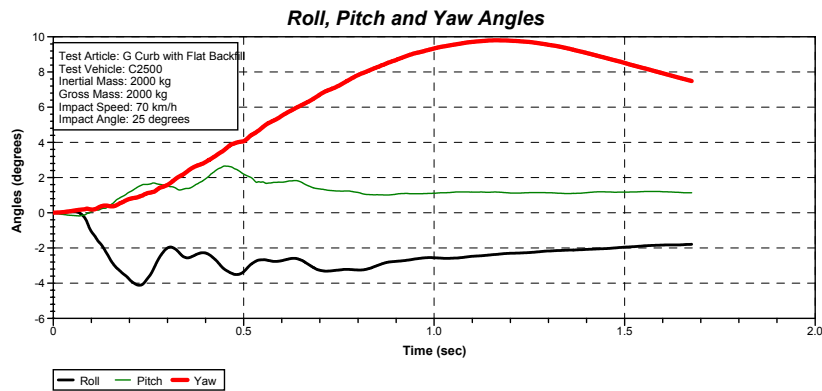


Figure D.24: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
 Curb Type -- AASHTO G Curb
 Impact Speed -- 70 km/hr
 Impact Angle -- 25 degrees.

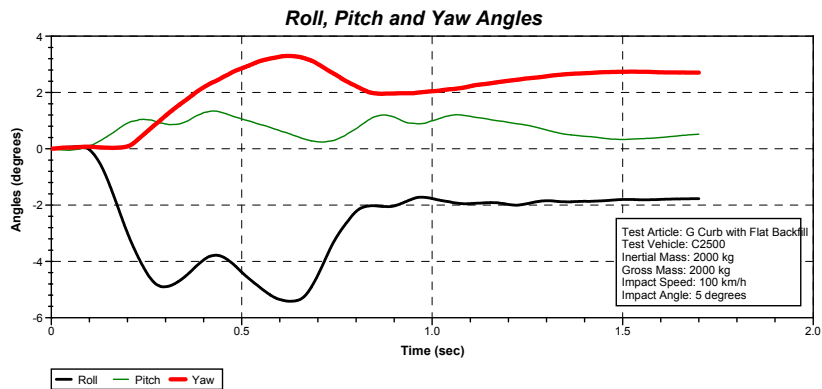


Figure D.25: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO G Curb
Impact Speed -- 100 km/hr
Impact Angle -- 5 degrees.

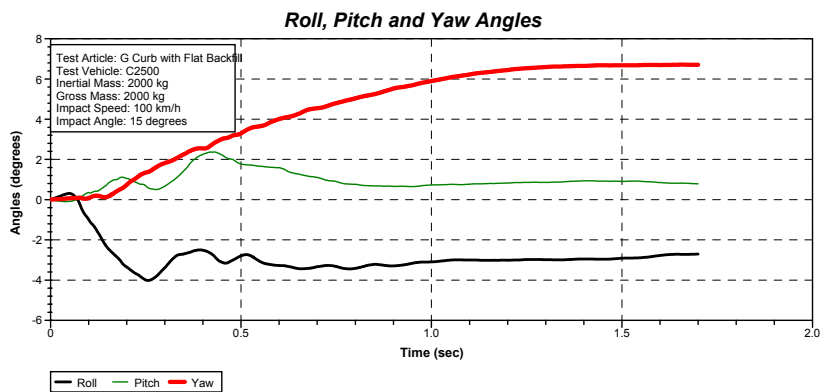


Figure D.26: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO G Curb
Impact Speed -- 100 km/hr
Impact Angle -- 15 degrees.

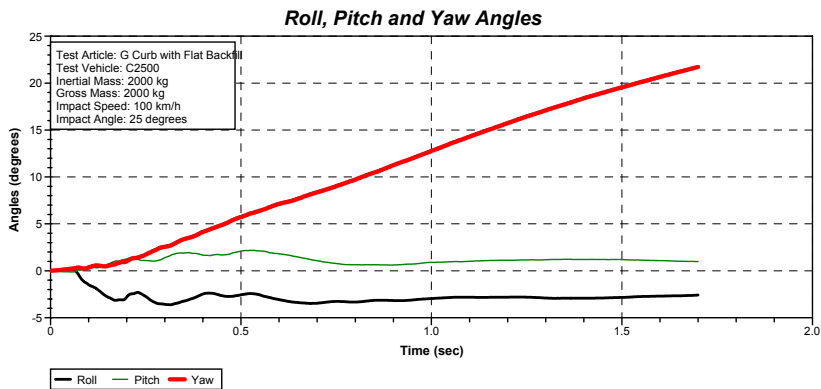


Figure D.27: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO G Curb
Impact Speed -- 100 km/hr
Impact Angle -- 25 degrees.

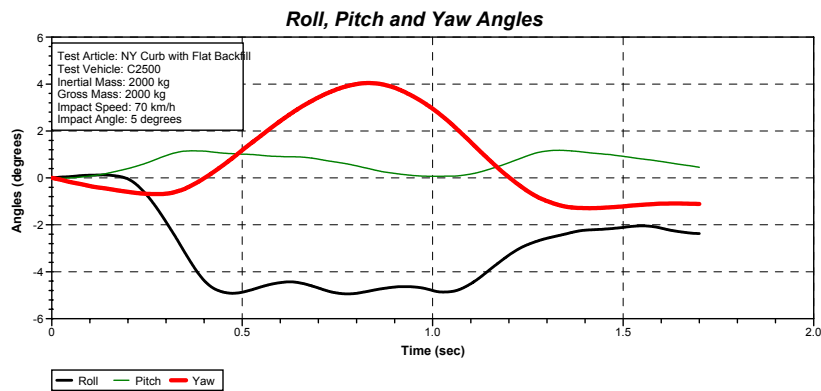


Figure D.28: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- New York Curb (100 mm)
Impact Speed -- 70 km/hr
Impact Angle -- 5 degrees.

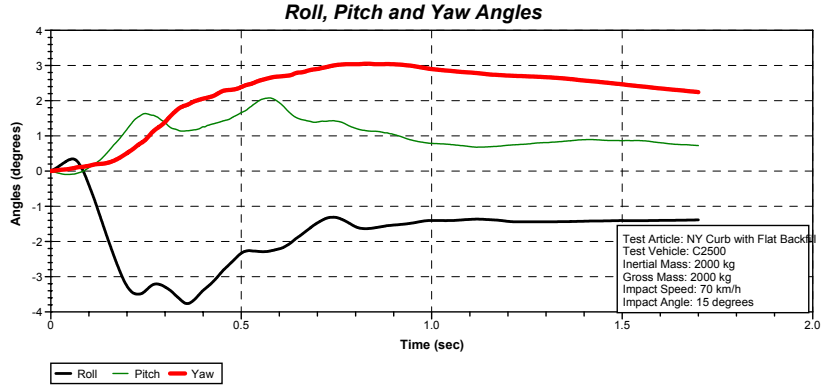


Figure D.29: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- New York Curb (100 mm)
Impact Speed -- 100 km/hr
Impact Angle -- 15 degrees.

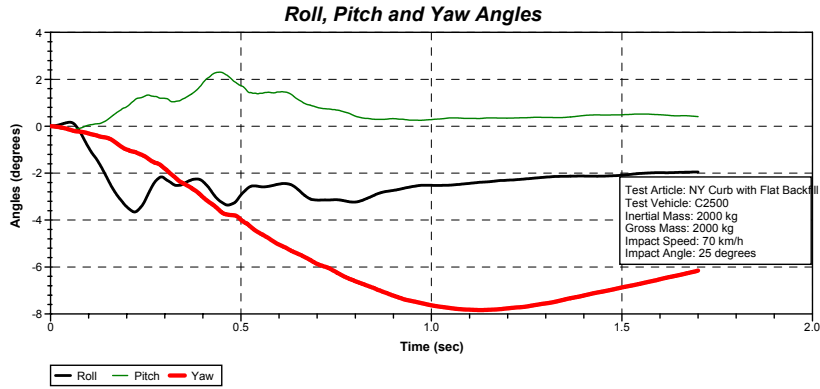


Figure D.30: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- New York Curb (100 mm)
Impact Speed -- 70 km/hr
Impact Angle -- 25 degrees.

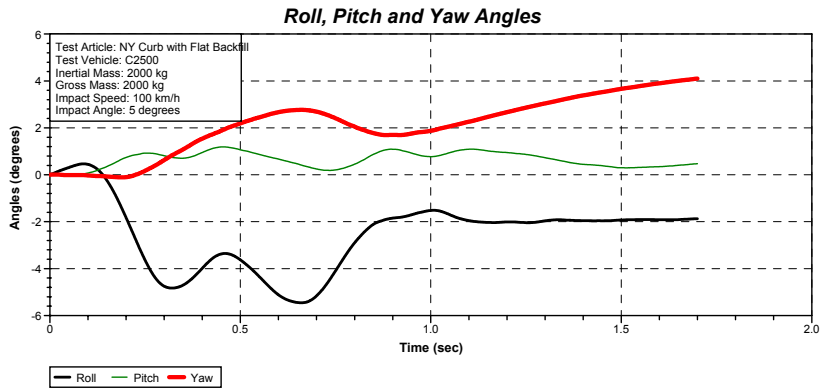


Figure D.31: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- New York Curb (100 mm)
Impact Speed -- 100 km/hr
Impact Angle -- 5 degrees.

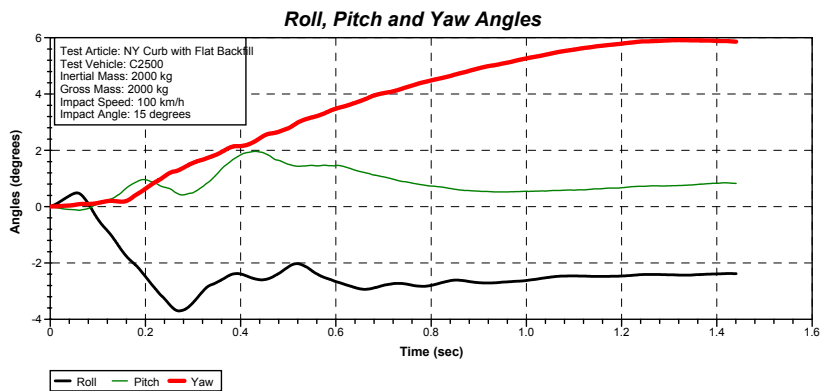


Figure D.32: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- New York Curb (100 mm)
Impact Speed -- 100 km/hr
Impact Angle -- 15 degrees.

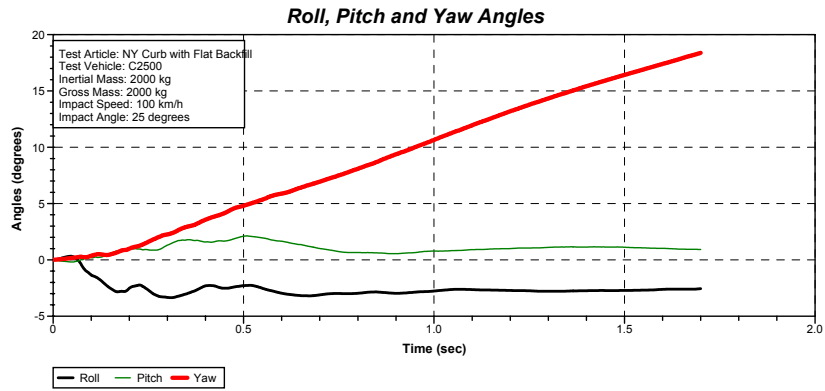


Figure D.33: Angular displacement-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- New York Curb (100 mm)
Impact Speed -- 100 km/hr
Impact Angle -- 25 degrees.