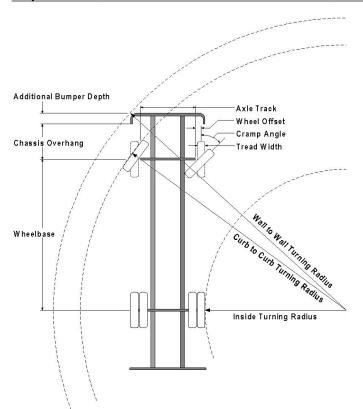


## **Turning Performance Analysis**

Bid Number: 1089 Chassis: Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL, PUC-

NG

**Department:** Santaquin City Fire Department **Body:** Aerial, HD Ladder 107' ASL Tandem, PUC, Alum Body



## Parameters:

*Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	4.68 in.
Tread Width:	16.3 in.
Chassis Overhang:	65.95 in.
Additional Bumper Depth:	19 in.
Front Overhang:	84.95 in.
Wheelbase:	264.5 in.

## **Calculated Turning Radii:**

Inside Turn:	20 ft. 0 in.
Curb to curb:	37 ft. 5 in.
Wall to wall:	41 ft. 10 in.

Category	Option	Description
Aerial Devices	0755095	Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH
Axle, Front, Custom	0629940	Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Enforcer
Wheels, Front	0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot
Bumpers	0012245	Bumper, 19" Extended, Saber FR/Enforcer
Tires, Front	0899438	Tires, Front, Goodyear, Armor MAX MSA, 425/65R22.50, 20 ply

## Notes:

Curb to Curb turning radius calculated for 9.00 inch curb.

<sup>\*</sup>Actual Inside cramp angle may be less than shown.

**Definitions:** 

Inside CrampAngle Maximum turning angle of the front inside fire.

Axle Track King-pin to King-pin distance of front axle.

Wheel Offset Offset from the center line of the wheel to the King-pin.

Tread Width Width of the tire tread.

Chassis Overhang Distance of the center line of the front axle to the front edge of the cab. This does not include

the bumper depth.

Additional Bumper Wheel Depth that the bumper assembly adds to the front overhang.

Wheelbase Distance between the center lines of the vehicles front and rear axles.

Inside Turning Radius Radius of the smallest circle around which the vehicle can turn.

Curb to Curb Turning Radius Radius of the smallest circle around which the vehicle's tires can turn. This measures

assumes a curb height of 9 inches.

Wall to Wall Turning Radius Radius of the smallest circle around which the vehicle's tires can turn. This measures takes

into account any front overhang due to chassis, bumper extensions and or aerial devices.