Turning Performance Analysis

Parameters:
- Inside Cramp Angle: 45.00°
- Axle Track: 82.92 in.
- Wheel Offset: 4.68 in.
- Tread Width: 17.40 in.
- Chassis Overhang: 68.99 in.
- Additional Bumper Depth: 7.00 in.
- Front Overhang: 75.99 in.
- Wheelbase: 160.00 in.

Calculated Turning Radii:
- Inside Turn: 12 ft. 3 in.
- Curb to Curb: 25 ft. 4 in.
- Wall to Wall: 29 ft. 0 in.

Components:

<table>
<thead>
<tr>
<th>Components</th>
<th>PRIDE #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Axle</td>
<td>0030262</td>
<td>Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, DLX/Enf/Qtm/AXT</td>
</tr>
<tr>
<td>Front Wheels</td>
<td>0019611</td>
<td>Wheels, Frt, Alum, Alcoa, 22.50&quot; x 12.25&quot; (425/ &amp; 385/)</td>
</tr>
<tr>
<td>Front Tires</td>
<td>0001615</td>
<td>Tires, Goodyear, 425/65R22.50 18 ply G286 tread</td>
</tr>
<tr>
<td>Chassis</td>
<td>0054969</td>
<td>Arrow-XT Chassis, Tractor (Tiller)</td>
</tr>
<tr>
<td>Front Bumper</td>
<td>0550026</td>
<td>Bumper, Non-extended, AXT</td>
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<tr>
<td>Aerial Device</td>
<td>0900674</td>
<td>Aerial, 100' Heavy Duty Ladder, Tiller 2002 (500)</td>
</tr>
</tbody>
</table>

Notes:
- Actual Inside Cramp Angle may be less due to highly specialized options.
- Curb to Curb turning radius calculated for a 9.00 inch curb.

Definitions:
- Inside Cramp Angle: Maximum turning angle of the front inside tire.
- Axle Track: King-pin to king-pin distance of the 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 from the center-line of the front axle to the front edge of the cab. This does not include the bumper depth.
- Additional Bumper Depth: Depth that the bumper assembly adds to the front overhang.
- Wheelbase: Distance between the center lines of the vehicle's 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 inside of which the vehicle's tires can turn. This measurement assumes a curb height of 9 inches.
- Wall to Wall Turning Radius: Radius of the smallest circle inside of which the entire vehicle can turn. This measurement takes into account any front overhang due to the chassis, bumper extensions and/or aerial devices.