Turning Performance Analysis

Configuration: 20229 105' HDL 750# Tip Load Quint Arrow: EP300244-116
Ver: 4

Parameters:
- Inside Cramp Angle: 45°
- Axle Track: 7' 1.34"
- Wheel Offset: 0' 4.68"
- Loaded Tire Width: 1' 5.70"
- Chassis Overhang: 5' 8.69"
- Additional Bumper Depth: 1' 7.00"
- Front Overhang: 7' 3.99"
- Wheelbase: 20' 5.50"

Calculated Turning Radii:
- Inside Turn: 19' 3.97"
- Curb to Curb: 35' 5.51"
- Wall to Wall: 39' 11.38"

Comments:
Aerial Application

Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Option #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Axle</td>
<td>0018453</td>
<td>Axle, Suspension, Front, Oshkosh TAK-4, Non-Drive, 22,800 lb</td>
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<tr>
<td>Front Wheels</td>
<td>0111380</td>
<td>Aluminum, Alcoa, 22.50 x 12.25</td>
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<tr>
<td>Front Tires</td>
<td>0111370</td>
<td>Michelin, 425/65R22.50, 20 Ply, XTE2</td>
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<tr>
<td>Chassis</td>
<td>0104766</td>
<td>Arrow-XT® Chassis</td>
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<tr>
<td>Front Bumper</td>
<td>0107610</td>
<td>Tray, Bumper, Passenger Side, Standard, 19&quot; W x 14.5&quot; L x 13&quot; D</td>
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<tr>
<td>Aerial Device</td>
<td>0120994</td>
<td>Aerial, 105' HDL, 750lb Tip Load with Waterway</td>
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</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.