



# CMF / CRF Details

CMF ID: 9348

**Conversion of intersection into single-lane roundabout**

**Description:** Conversion of intersection into single-lane roundabout

**Prior Condition:** signalized, stop-controlled, yield-controlled and non-controlled intersections

**Category:** Intersection geometry

**Study:** [Safe roundabouts for cyclists, Jensen, S. U., 2017](#)

Star Quality Rating:	
<input type="text" value="2 Stars"/>	<a href="#">[View score details]</a>

Crash Modification Factor (CMF)	
Value:	2.62
Adjusted Standard Error:	
Unadjusted Standard Error:	1.827

Crash Reduction Factor (CRF)	
Value:	-162 (This value indicates an <b>increase</b> in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	182.7

## Applicability

**Crash Type:** Vehicle/bicycle

**Crash Severity:** All

**Roadway Types:** Not specified

**Number of Lanes:**

**Road Division Type:** All

**Speed Limit:** 40km/h to 130km/h

**Area Type:** All

**Traffic Volume:**

**Time of Day:** All

### *If countermeasure is intersection-based*

**Intersection Type:** Roadway/roadway (not interchange related)

**Intersection Geometry:** No values chosen.

**Traffic Control:** Not specified

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:**

**Municipality:**

**State:**

**Country:** Denmark

**Type of Methodology Used:** 1

**Sample Size Used:**

**Other Details**

**Included in Highway Safety Manual?**

No

**Date Added to Clearinghouse:**

Jun-17-2018

**Comments:**

Type of bicycle facility: Cycle track  
Central island height=0 to 1.9m  
Central island diameter=3.5m-19.9m

---

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

*The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.*