



# CMF / CRF Details

CMF ID: 10587

Install a pedestrian hybrid beacon (PHB or HAWK)

Description:

Prior Condition: *No Prior Condition(s)*

Category: Pedestrians

Study: [Evaluation of Pedestrian Hybrid Beacons on Arizona Highways, Fitzpatrick et al., 2019](#)

Star Quality Rating:	
<input type="text" value="4 Stars"/>	<a href="#">[View score details]</a>

Crash Modification Factor (CMF)	
Value:	0.87
Adjusted Standard Error:	
Unadjusted Standard Error:	0.103

Crash Reduction Factor (CRF)	
Value:	13 (This value indicates a <b>decrease</b> in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	10.3

## Applicability

**Crash Type:** Angle

**Crash Severity:** All

**Roadway Types:** All

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:** Urban and suburban

**Traffic Volume:**

**Time of Day:** All

### *If countermeasure is intersection-based*

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

**Intersection Geometry:** 3-leg,4-leg,Not specified

**Traffic Control:** Not specified

**Major Road Traffic Volume:** 5400 to 47627 Annual Average Daily Traffic (AADT)

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:** 2007 to 2017

**Municipality:**

**State:** AZ

**Country:**

**Type of Methodology Used:** 2

<b>Sample Size Used:</b>	
<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-17-2020
<b>Comments:</b>	The reference group consisted of 101 unsignalized intersections.

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