



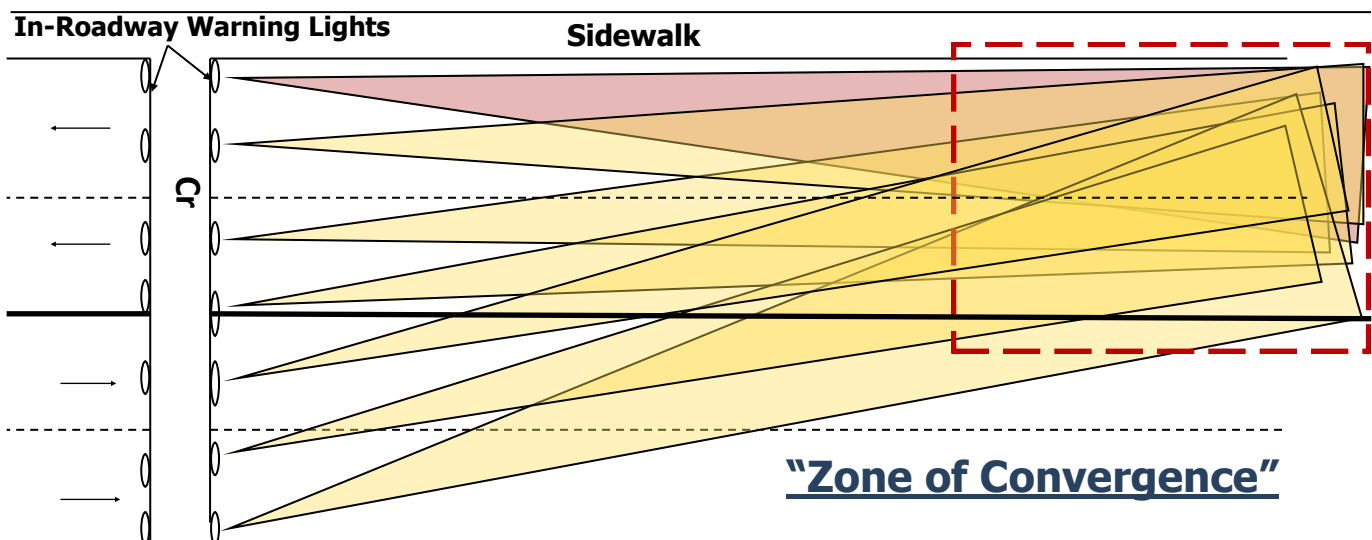
### **“ZONE OF CONVERGENCE”**

The “Zone of Convergence” refers to the area in the approaching traffic lanes where the light beams from the In-Roadway Warning Lights (IRWLs) merge and are visible to the driver at eye level.

For the “zone” to be configured correctly in the crosswalk; installation of the IRWLs must be properly positioned and directed towards the approaching motorist.

<b>Posted Speed Limit</b>	<b>1 Second Reaction Time</b>	<b>Braking Distance</b>	<b>Total Stopping Distance</b>
25 mph	37 feet	53 feet	90 feet
30 mph	44 feet	81 feet	125 feet
35 mph	51 feet	110 feet	161 feet
40 mph	59 feet	143 feet	202 feet
45 mph	66 feet	184 feet	250 feet
50 mph	73 feet	227 feet	300 feet
55 mph	81 feet	271 feet	352 feet
60 mph	88 feet	323 feet	411 feet

The chart on the left provides specific details of the approximate location of the “Zone of Convergence.” The calculations are based on the stopping distances found on dry road conditions and at the rate of vehicular speed. Source: Santa Rosa, CA City Police Department (during preliminary test evaluations 1994).



Copyright 2016 LightGuard Systems®, Inc. All Rights Reserved.

2292 Airport Blvd., Santa Rosa, CA 95403 | Phone (707) 542-4547 | Fax (707) 525-6333