Hazard List - Hazardous Scenarios

Hazard ID	Situational Analysis							Hazard Identification							Hazard Analysis - Severity/Exposure/Controllability						Determination of ASIL and Safety Goals	
	Operational Mode	Operational Scenario	Environmental Details	Situation Details (Optional)	Other Details (Optional)	Item Usage (Optional)	Situation Description	Function	Deviation	Deviation Details	Hazardous Event (Malfunctioning Behavior)	Item Details	Hazardous Event (Malfunctioning Behavior)	Exposure (Life Exposure)	Severity (Physical Harm)	Severity (Life Exposure)	Controllability (Vehicle Controllability)	Controllability (Life Exposure)	Hazards (Safety Goal)	ASIL (Automotive SIL)	Safety Goal
HA-001	Normal Driving	City Road	Normal Conditions	Low Speed	Night time + Obstacle on the road	Correctly Used	Normal Driving on city Road in Normal Conditions at Low Speed at Night with an Obstacle on the Road	Low beam illuminates the roadway in the dark	Function not activated	Bulb headlights, stop or ending	Front collision or Bin obstacle	Vehicle Details	Vehicle crashes into the obstacle with injury to driver	Total loss of low beam	E4 - High probability	night driving in the city in a regular driving	S1 - Light and moderate injuries	In city traffic, speed of vehicle is expected to be low	C0 - Controllable in general	In city speed, need drivers will be able to react and have time to notice the hazard and there is additional Breaking and to stop.	QM	Total loss of Low Beam that Prevents

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HA-001	OM03 - Normal Driving	OS01 - City Road	ENA1 - Normal conditions	SS01 - Low speed	Night time + Obstacle on the road	E01 - Correctly used	Normal Driving on City Road during Normal conditions at Low speed (Night time + Obstacle on the road)	Low beam illuminates the roadway in the dark	DV01 - Function not activated	Bulb headlights, stop or ending	HV04 - Front collision with obstacle	Vehicle Details	Vehicle crashes into the obstacle with injury to driver	Total loss of low beam	E4 - High probability	night driving in the city in a regular driving	S1 - Light and moderate injuries	In city traffic, speed of vehicle is expected to be low	C0 - Controllable in general	In city speed, need drivers will be able to react and have time to notice the hazard and there is additional Breaking and to stop.	QM	Total loss of Low Beam that Prevents
HA-002	OM03 - Normal Driving	OS01 - City Road	ENA4 - Snow fall (degraded view)	SS01 - Low speed	Night time + Obstacle on the road with no proper illumination on road	E01 - Correctly used	Normal Driving on City Road during Snow fall (degraded view) with low speed (Night time + Obstacle on the road and no refer illumination on road)	Low beam illuminates the roadway in the dark	DV01 - Function not activated	Bulb headlights, stop or ending	HV04 - Front collision with obstacle	Vehicle Details	Vehicle crashes into the obstacle with injury to driver	Total loss of low beam	E1 - Very low probability	night driving in the city on weather in unpredictable state, or like it is snowing in rare	S1 - Light and moderate injuries	In city traffic, speed of vehicle is expected to be low	C1 - Simply controllable	On increasingly unfamiliar city roads, drivers usually drive at lower speed (C1) in contrast and hence are expected to be able to react and control the vehicle	QM	Total loss of low beam that prevents
HA-003	OM03 - Normal Driving	OS03 - Highway	ENA4 - Snow fall (degraded view)	SS03 - High speed	Night time + Obstacle on the road + upcoming curve	E01 - Correctly used	Normal Driving on Highw ay during Snow fall (degraded view) with High speed (Night time + Obstacle on the road + upcoming curve)	Low beam illuminates the roadway in the dark	DV01 - Function not activated	Bulb headlights, stop or ending	HV04 - Front collision with obstacle	Vehicle Details	Vehicle crashes into the obstacle with the construction with injury to driver and or others passenger	Total loss of low beam	E2 - Low probability	High driving is part of regular driving, however, heavy snow occurs a few times a year	S3 - Life threatening or fatal injuries	On highw ay speed of vehicle is expected to be high	C2 - Normally controllable	When driving on highw ay with low beam, it can be expected that there are some unknown obstacles or road illumination on road and hence drivers usually drive at high speed. Other vehicle, road also are other family or working by night time, so speed is expected	A	Total loss of low beam that prevents
HA-004	OM03 - Normal Driving	OS02 - Country Road	ENA1 - Normal conditions	SS02 - High speed	Night time + Crossing vehicle	E01 - Correctly used	Normal Driving on Country Road during Normal conditions at High speed (Night time + Crossing vehicle)	Low beam illuminates the roadway in the dark	DV01 - Function not activated	Bulb headlights, stop or ending	HV04 - Collision with other vehicle	Vehicle Details	Vehicle crashes into the oncoming vehicle or road infrastructure	Total loss of low beam	E4 - High probability	country driving is part of regular driving	S3 - Life threatening or fatal injuries	On country roads speed of vehicle is expected to be high	C1 - Simply controllable	Since there is usually no other form of traffic on country roads, drivers on road it will be difficult for the average driver to control the vehicle in such a	B	Total loss of low beam that prevents
HA-005	OM03 - Normal Driving	OS02 - Country Road	ENA4 - Snow fall (degraded view)	SS04 - High speed	Night time + Obstacle on the road and no refer illumination on road	E01 - Correctly used	Normal Driving on Country Road during Snow fall (degraded view) in the night speed (Night time + Obstacle on the road and other illumination on road)	Low beam illuminates the roadway in the dark	DV01 - Function not activated	Bulb headlights, stop or ending	HV04 - Front collision with obstacle	Vehicle Details	Vehicle crashes into the obstacle with the construction with injury to driver and or others passenger	Total loss of low beam	E2 - Low probability	country driving is part of regular driving, however, heavy snow occurs a few times a year	S3 - Life threatening or fatal injuries	On country roads speed of vehicle is expected to be high	C3 - Difficult to control or uncontrollable	Since there is usually no other form of traffic on country roads, drivers on road it will be difficult for the average driver to control the vehicle in such a	B	Total loss of low beam that prevents