

**APPENDIX X**

**RED-LINE AND YELLOW-LINE THRESHOLDS FOR**

**ROUTE SELECTION SEARCH TASKS, GRAPHIC MAP FORMAT**

**Table X.1. Red-line and Yellow-line Thresholds for route selection Search tasks, graphic map format.**

Presentation Format		Density Level	Red-line Threshold					Yellow-line Threshold			Red-line Threshold					Yellow-line Threshold			Red-line Threshold																
			Task skipped	Threshold exceeded	Total exceeded	Below threshold	Missing data	Total	Minimum speed	Max. steering velocity	Mirror glances	Task skipped	Threshold exceeded	Total exceeded	Below threshold	Missing data	Total	Minimum speed	Max. steering velocity	Mirror glances	Task skipped	Threshold exceeded	Total exceeded	Below threshold	Missing data	Total									
G. Text	M	# Subj.	0	0	0	11	1	12	0 <sup>#</sup>	0 <sup>#</sup>	0 <sup>#</sup>	0	1	1	10	1	12	0	0	0	1	1	2	10	0	12	1	X	1	1	2	3	31	2	36
		Prop.	.00	.00	.00	.92	.08	1.0				.00	.08	.08	.83	.08	1.0				.08	.08	.17	.83	.00	1.0				.03	.06	.08	.86	.06	1.0
	H	# Subj.	0	1	1	11	0	12	X	X	X	0	1	1	11	0	12	0	X	X	1	1	2	10	0	12	1	X	X	1	3	4	32	0	36
		Prop.	.00	.08	.08	.92	.00	1.0				.00	.08	.08	.92	.00	1.0				.08	.08	.17	.83	.00	1.0				.03	.08	.11	.89	.00	1.0
	VH	# Subj.	1	0	1	11	0	12	1	1	X	2	1	3	9	0	12	2	2	X	5	1	6	6	0	12	5	X	5	8	2	10	26	0	36
		Prop.	.08	.00	.08	.92	.00	1.0				.17	.08	.25	.75	.00	1.0				.42	.08	.50	.50	.00	1.0				.22	.06	.28	.72	.00	1.0
G. Icon	L	# Subj.	0	1	1	11	0	12	0	X	X	0	0	0	12	0	12	0	0	X	1	4	5	7	0	12	1	X	X	1	5	6	30	0	36
		Prop.	.00	.08	.08	.92	.00	1.0				.00	.00	.00	1.0	.00	1.0				.08	.33	.42	.58	.00	1.0				.03	.14	.17	.83	.00	1.0
	5X2	# Subj.	0	2	2	10	0	12	0	X	0	0	2	2	10	0	12	0	0	X	1	5	6	6	0	12	1	X	X	1	9	10	26	0	36
		Prop.	.00	.17	.17	.83	.00	1.0				.00	.17	.17	.83	.00	1.0				.08	.42	.50	.50	.00	1.0				.03	.25	.28	.72	.00	1.0
	M	# Subj.	0	0	0	11	1	12	0 <sup>#</sup>	0 <sup>#</sup>	0 <sup>#</sup>	0	0	0	10	2	12	0	0	X	1	4	5	7	0	12	1	X	1	1	4	5	28	3	36
		Prop.	.00	.00	.00	.92	.08	1.0				.00	.00	.00	.83	.17	1.0				.08	.33	.42	.58	.00	1.0				.03	.11	.14	.78	.08	1.0
H	# Subj.	0	1	1	11	0	12	X	X	X	0	3	3	8	1	12	0	X	X	4	3	7	5	0	12	4	X	4	4	7	11	24	1	36	
	Prop.	.00	.08	.08	.92	.00	1.0				.00	.25	.25	.67	.08	1.0				.33	.25	.58	.42	.00	1.0				.11	.19	.31	.67	.03	1.0	
G. Text	M	# Subj.	0	0	0	12	0	12	0 <sup>#</sup>	0 <sup>#</sup>	0 <sup>#</sup>	0	0	0	10	2	12	0	0	0	1	2	3	9	0	12	1	1	1	1	2	3	31	2	36
		Prop.	.00	.00	.00	1.0	.00	1.0				.00	.00	.00	.83	.17	1.0				.08	.17	.25	.75	.00	1.0				.03	.06	.08	.86	.06	1.0
	H	# Subj.	0	0	0	12	0	12	0	X	X	0	3	3	9	0	12	0	0	X	2	0	2	10	0	12	2	X	X	2	3	5	31	0	36
		Prop.	.00	.00	.00	1.0	.00	1.0				.00	.25	.25	.75	.00	1.0				.17	.00	.17	.83	.00	1.0				.06	.08	.14	.86	.00	1.0
	VH	# Subj.	0	2	2	10	0	12	0	X	X	2	3	5	7	0	12	2	X	X	3	4	7	2	3	12	3	X	3	5	9	14	19	3	36
		Prop.	.00	.17	.17	.83	.00	1.0				.17	.25	.42	.58	.00	1.0				.25	.33	.58	.17	.25	1.0				.14	.25	.39	.53	.08	1.0
G. Icon	M	# Subj.	0	0	0	12	0	12	X	0	0	0	1	1	10	1	12	0	0	0	1	3	4	8	0	12	X	1	X	1	4	5	30	1	36
		Prop.	.00	.00	.00	1.0	.00	1.0				.00	.08	.08	.83	.08	1.0				.08	.25	.33	.67	.00	1.0				.03	.11	.14	.83	.03	1.0
	H	# Subj.	0	0	0	12	0	12	0	X	X	0	2	2	9	1	12	X	X	X	1	4	5	7	0	12	1	X	X	1	6	7	28	1	36
		Prop.	.00	.00	.00	1.0	.00	1.0				.00	.17	.17	.75	.08	1.0				.08	.33	.42	.58	.00	1.0				.03	.17	.19	.78	.03	1.0
	VH	# Subj.	1	2	3	9	0	12	1	X	1	1	3	4	7	1	12	1	X	X	9	1	10	2	0	12	9 <sup>#</sup>	9 <sup>#</sup>	9 <sup>#</sup>	11	6	17	18	1	36
		Prop.	.08	.17	.25	.75	.00	1.0				.08	.25	.33	.58	.08	1.0				.75	.08	.83	.17	.00	1.0				.31	.17	.47	.50	.03	1.0
G. Text	M	# Subj.	0	1	1	11	0	12	0	X	0	0	3	3	9	0	12	0	X	X	1	4	5	7	0	12	1	X	X	1	8	9	27	0	36
		Prop.	.00	.08	.08	.92	.00	1.0				.00	.25	.25	.75	.00	1.0				.08	.33	.42	.58	.00	1.0				.03	.22	.25	.75	.00	1.0
	H	# Subj.	0	4	4	8	0	12	0	X	0	0	3	3	9	0	12	0	0	0	1	6	7	5	0	12	1	X	1	1	13	14	22	0	36
		Prop.	.00	.33	.33	.67	.00	1.0				.00	.25	.25	.75	.00	1.0				.08	.50	.58	.42	.00	1.0				.03	.36	.39	.61	.00	1.0

**Table X.2. Proportion of drivers from all age groups combined who exceeded the Red-line Threshold for route selection, Search tasks graphic map format.**

IVIS Tasks			Skipped Tasks			Number of Eye Glances					Peak Eye Glance Length					Task Completion Time					Lane Deviations			
Presentation Format	Density Level		Not presented, safety concern	Not presented, below red-line	Skipped by driver	1 - 4 glances	5 - 8 glances	9+ glances	Missing data	Total	Less than or equal to 2.0 secs.	2.0 > secs. ≤ 2.5	Greater than 2.5 secs.	Missing data	Total	Greater than 13 secs.	13 > secs. ≤ 20	Greater than 20 secs.	Missing data	Total	No deviations	1+ deviations	Missing data	Total
G. Text	M	# Subj.	0	10	1	22	0	0	3	36	20	0	2	3	36	23	0	0	2	36	23	0	2	36
		Prop.	0.00	0.28	0.03	0.61	0.00	0.00	0.08	1.00	0.56	0.00	0.06	0.08	1.00	0.64	0.00	0.00	0.06	1.00	0.64	0.00	0.06	1.00
	H	# Subj.	0	0	1	26	8	0	1	36	28	3	3	1	36	35	0	0	0	36	34	1	0	36
		Prop.	0.00	0.00	0.03	0.72	0.22	0.00	0.03	1.00	0.78	0.08	0.08	0.03	1.00	0.97	0.00	0.00	0.00	1.00	0.94	0.03	0.00	1.00
VH	# Subj.	7	0	1	23	4	0	1	36	22	4	1	1	36	28	0	0	0	36	27	1	0	36	
	Prop.	0.19	0.00	0.03	0.64	0.11	0.00	0.03	1.00	0.61	0.11	0.03	0.03	1.00	0.78	0.00	0.00	0.00	1.00	0.75	0.03	0.00	1.00	
G. Icon	L	# Subj.	0	2	1	29	3	1	0	36	26	5	2	0	36	32	0	1	0	36	31	2	0	36
		Prop.	0.00	0.06	0.03	0.81	0.08	0.03	0.00	1.00	0.72	0.14	0.06	0.00	1.00	0.89	0.00	0.03	0.00	1.00	0.86	0.06	0.00	1.00
	5X2	# Subj.	0	0	1	30	3	1	1	36	20	7	7	1	36	34	0	1	0	36	34	1	0	36
		Prop.	0.00	0.00	0.03	0.83	0.08	0.03	0.03	1.00	0.56	0.19	0.19	0.03	1.00	0.94	0.00	0.03	0.00	1.00	0.94	0.03	0.00	1.00
	M	# Subj.	0	8	1	17	5	1	4	36	17	5	1	4	36	22	0	2	3	36	23	1	3	36
		Prop.	0.00	0.22	0.03	0.47	0.14	0.03	0.11	1.00	0.47	0.14	0.03	0.11	1.00	0.61	0.00	0.06	0.08	1.00	0.64	0.03	0.08	1.00
H	# Subj.	2	0	2	17	10	2	3	36	26	1	2	3	36	29	1	1	1	36	29	2	1	36	
	Prop.	0.06	0.00	0.06	0.47	0.28	0.06	0.08	1.00	0.72	0.03	0.06	0.08	1.00	0.81	0.03	0.03	0.03	1.00	0.81	0.06	0.03	1.00	
G. Text	M	# Subj.	0	12	1	17	3	1	2	36	18	2	1	2	36	19	2	0	2	36	21	0	2	36
		Prop.	0.00	0.33	0.03	0.47	0.08	0.03	0.06	1.00	0.50	0.06	0.03	0.06	1.00	0.53	0.06	0.00	0.06	1.00	0.58	0.00	0.06	1.00
	H	# Subj.	1	1	1	21	11	0	1	36	24	6	2	1	36	32	1	0	0	36	32	1	0	36
		Prop.	0.03	0.03	0.03	0.58	0.31	0.00	0.03	1.00	0.67	0.17	0.06	0.03	1.00	0.89	0.03	0.00	0.00	1.00	0.89	0.03	0.00	1.00
VH	# Subj.	3	0	2	8	11	8	4	36	19	7	1	4	36	19	7	2	3	36	26	2	3	36	
	Prop.	0.08	0.00	0.06	0.22	0.31	0.22	0.11	1.00	0.53	0.19	0.03	0.11	1.00	0.53	0.19	0.06	0.08	1.00	0.72	0.06	0.08	1.00	
G. Icon	M	# Subj.	0	8	1	24	1	0	2	36	22	0	3	2	36	26	0	0	1	36	25	1	1	36
		Prop.	0.00	0.22	0.03	0.67	0.03	0.00	0.06	1.00	0.61	0.00	0.08	0.06	1.00	0.72	0.00	0.00	0.03	1.00	0.69	0.03	0.03	1.00
	H	# Subj.	0	0	1	24	6	3	2	36	28	2	3	2	36	31	1	2	1	36	32	2	1	36
		Prop.	0.00	0.00	0.03	0.67	0.17	0.08	0.06	1.00	0.78	0.06	0.08	0.06	1.00	0.86	0.03	0.06	0.03	1.00	0.89	0.06	0.03	1.00
VH	# Subj.	9	0	2	15	7	1	2	36	17	4	2	2	36	18	4	2	1	36	22	2	1	36	
	Prop.	0.25	0.00	0.06	0.42	0.19	0.03	0.06	1.00	0.47	0.11	0.06	0.06	1.00	0.50	0.11	0.06	0.03	1.00	0.61	0.06	0.03	1.00	
G. Text	M	# Subj.	0	0	1	30	3	0	2	36	22	6	5	2	36	33	0	2	0	36	34	1	0	36
		Prop.	0.00	0.00	0.03	0.83	0.08	0.00	0.06	1.00	0.61	0.17	0.14	0.06	1.00	0.92	0.00	0.06	0.00	1.00	0.94	0.03	0.00	1.00
	H	# Subj.	0	0	1	23	6	5	1	36	25	3	6	1	36	27	4	4	0	36	34	1	0	36
		Prop.	0.00	0.00	0.03	0.64	0.17	0.14	0.03	1.00	0.69	0.08	0.17	0.03	1.00	0.75	0.11	0.11	0.00	1.00	0.94	0.03	0.00	1.00

**Table X.3. Proportion of young drivers who exceeded the Red-line Threshold for S-RP graphic map format tasks.**

IVIS Tasks			Skipped Tasks			Number of Eye Glances					Peak Eye Glance Length					Task Completion Time					Lane Deviations			
Presentation Format	Density Level		Not presented, safety concern	Not presented, below red-line	Skipped by driver	1 - 4 glances	5 - 8 glances	9+ glances	Missing data	Total	Less than or equal to 2.0 secs.	2.0 > secs. ≤ 2.5	Greater than 2.5 secs.	Missing data	Total	Greater than 13 secs.	13 > secs. ≤ 20	Greater than 20 secs.	Missing data	Total	No deviations	1+ deviations	Missing data	Total
G. Text	M	# Subj.	0	7	0	4	0	0	1	12	4	0	0	1	12	4	0	0	1	12	4	0	1	12
		Prop.	0.00	0.58	0.00	0.33	0.00	0.00	0.08	1.00	0.33	0.00	0.00	0.08	1.00	0.33	0.00	0.00	0.08	1.00	0.33	0.00	0.08	1.00
	H	# Subj.	0	0	0	11	1	0	0	12	11	0	1	0	12	12	0	0	0	12	11	1	0	12
		Prop.	0.00	0.00	0.00	0.92	0.08	0.00	0.00	1.00	0.92	0.00	0.08	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.92	0.08	0.00	1.00
VH	# Subj.	1	0	0	11	0	0	0	12	9	2	0	0	12	11	0	0	0	12	11	0	0	12	
	Prop.	0.08	0.00	0.00	0.92	0.00	0.00	0.00	1.00	0.75	0.17	0.00	0.00	1.00	0.92	0.00	0.00	0.00	1.00	0.92	0.00	0.00	1.00	
G. Icon	L	# Subj.	0	0	0	12	0	0	0	12	10	2	0	0	12	12	0	0	0	12	11	1	0	12
		Prop.	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.83	0.17	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.92	0.08	0.00	1.00
	5x2	# Subj.	0	0	0	12	0	0	0	12	7	3	2	0	12	12	0	0	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.58	0.25	0.17	0.00	1.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
	M	# Subj.	0	6	0	4	1	0	1	12	4	1	0	1	12	5	0	0	1	12	5	0	1	12
		Prop.	0.00	0.50	0.00	0.33	0.08	0.00	0.08	1.00	0.33	0.08	0.00	0.08	1.00	0.42	0.00	0.00	0.08	1.00	0.42	0.00	0.08	1.00
H	# Subj.	0	0	0	8	4	0	0	12	11	1	0	0	12	11	0	1	0	12	12	0	0	12	
	Prop.	0.00	0.00	0.00	0.67	0.33	0.00	0.00	1.00	0.92	0.08	0.00	0.00	1.00	0.92	0.00	0.08	0.00	1.00	1.00	0.00	0.00	1.00	
G. Text	M	# Subj.	0	8	0	4	0	0	0	12	3	1	0	0	12	4	0	0	0	12	4	0	0	12
		Prop.	0.00	0.67	0.00	0.33	0.00	0.00	0.00	1.00	0.25	0.08	0.00	0.00	1.00	0.33	0.00	0.00	0.00	1.00	0.33	0.00	0.00	1.00
	H	# Subj.	0	0	0	11	1	0	0	12	11	1	0	0	12	12	0	0	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	0.92	0.08	0.00	0.00	1.00	0.92	0.08	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
VH	# Subj.	0	0	0	6	4	2	0	12	10	2	0	0	12	11	1	0	0	12	12	0	0	12	
	Prop.	0.00	0.00	0.00	0.50	0.33	0.17	0.00	1.00	0.83	0.17	0.00	0.00	1.00	0.92	0.08	0.00	0.00	1.00	1.00	0.00	0.00	1.00	
G. Icon	M	# Subj.	0	6	0	6	0	0	0	12	6	0	0	0	12	6	0	0	0	12	6	0	0	12
		Prop.	0.00	0.50	0.00	0.50	0.00	0.00	0.00	1.00	0.50	0.00	0.00	0.00	1.00	0.50	0.00	0.00	0.00	1.00	0.50	0.00	0.00	1.00
	H	# Subj.	0	0	0	11	1	0	0	12	11	1	0	0	12	12	0	0	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	0.92	0.08	0.00	0.00	1.00	0.92	0.08	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
VH	# Subj.	1	0	0	7	4	0	0	12	9	1	1	0	12	9	2	0	0	12	10	1	0	12	
	Prop.	0.08	0.00	0.00	0.58	0.33	0.00	0.00	1.00	0.75	0.08	0.08	0.00	1.00	0.75	0.17	0.00	0.00	1.00	0.83	0.08	0.00	1.00	
G. Text	M	# Subj.	0	0	0	12	0	0	0	12	11	1	0	0	12	11	0	1	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.92	0.08	0.00	0.00	1.00	0.92	0.00	0.08	0.00	1.00	1.00	0.00	0.00	1.00
	H	# Subj.	0	0	0	11	1	0	0	12	9	0	3	0	12	12	0	0	0	12	11	1	0	12
		Prop.	0.00	0.00	0.00	0.92	0.08	0.00	0.00	1.00	0.75	0.00	0.25	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.92	0.08	0.00	1.00

**Table X.4. Proportion of middle age drivers who exceeded the Red-line Threshold for S-RP graphic map format tasks.**

IVIS Tasks			Skipped Tasks			Number of Eye Glances					Peak Eye Glance Length					Task Completion Time					Lane Deviations			
Presentation Format	Density Level		Not presented, safety concern	Not presented, below red-line	Skipped by driver	1 - 4 glances	5 - 8 glances	9+ glances	Missing data	Total	Less than or equal to 2.0 secs.	2.0 > secs. ≤ 2.5	Greater than 2.5 secs.	Missing data	Total	Greater than 13 secs.	13 > secs. ≤ 20	Greater than 20 secs.	Missing data	Total	No deviations	1+ deviations	Missing data	Total
Graphic Text	M	# Subj.	0	3	0	7	0	0	2	12	6	0	1	2	12	8	0	0	1	12	8	0	1	12
		Prop.	0.00	0.25	0.00	0.58	0.00	0.00	0.17	1.00	0.50	0.00	0.08	0.17	1.00	0.67	0.00	0.00	0.08	1.00	0.67	0.00	0.08	1.00
	H	# Subj.	0	0	0	9	2	0	1	12	8	2	1	1	12	12	0	0	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	0.75	0.17	0.00	0.08	1.00	0.67	0.17	0.08	0.08	1.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
	VH	# Subj.	2	0	0	7	2	0	1	12	6	2	1	1	12	10	0	0	0	12	10	0	0	12
		Prop.	0.17	0.00	0.00	0.58	0.17	0.00	0.08	1.00	0.50	0.17	0.08	0.08	1.00	0.83	0.00	0.00	0.00	1.00	0.83	0.00	0.00	1.00
Graphic Icon	L	# Subj.	0	1	0	10	1	0	0	12	10	1	0	0	12	11	0	0	0	12	11	0	0	12
		Prop.	0.00	0.08	0.00	0.83	0.08	0.00	0.00	1.00	0.83	0.08	0.00	0.00	1.00	0.92	0.00	0.00	0.00	1.00	0.92	0.00	0.00	1.00
	5x2	# Subj.	0	0	0	10	1	0	1	12	5	4	2	1	12	12	0	0	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	0.83	0.08	0.00	0.08	1.00	0.42	0.33	0.17	0.08	1.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
	M	# Subj.	0	2	0	7	0	0	3	12	5	2	0	3	12	8	0	0	2	12	8	0	2	12
		Prop.	0.00	0.17	0.00	0.58	0.00	0.00	0.25	1.00	0.42	0.17	0.00	0.25	1.00	0.67	0.00	0.00	0.17	1.00	0.67	0.00	0.17	1.00
H	# Subj.	0	0	0	4	5	1	2	12	9	0	1	2	12	11	0	0	1	12	10	1	1	12	
	Prop.	0.00	0.00	0.00	0.33	0.42	0.08	0.17	1.00	0.75	0.00	0.08	0.17	1.00	0.92	0.00	0.00	0.08	1.00	0.83	0.08	0.08	1.00	
Graphic Text	M	# Subj.	0	3	0	4	3	0	2	12	7	0	0	2	12	7	0	0	2	12	7	0	2	12
		Prop.	0.00	0.25	0.00	0.33	0.25	0.00	0.17	1.00	0.58	0.00	0.00	0.17	1.00	0.58	0.00	0.00	0.17	1.00	0.58	0.00	0.17	1.00
	H	# Subj.	0	0	0	7	4	0	1	12	8	1	2	1	12	11	1	0	0	12	11	1	0	12
		Prop.	0.00	0.00	0.00	0.58	0.33	0.00	0.08	1.00	0.67	0.08	0.17	0.08	1.00	0.92	0.08	0.00	0.00	1.00	0.92	0.08	0.00	1.00
VH	# Subj.	1	0	1	2	4	3	1	12	4	5	0	1	12	6	3	1	0	12	9	1	0	12	
	Prop.	0.08	0.00	0.08	0.17	0.33	0.25	0.08	1.00	0.33	0.42	0.00	0.08	1.00	0.50	0.25	0.08	0.00	1.00	0.75	0.08	0.00	1.00	
Graphic Icon	M	# Subj.	0	2	0	8	0	0	2	12	7	0	1	2	12	9	0	0	1	12	9	0	1	12
		Prop.	0.00	0.17	0.00	0.67	0.00	0.00	0.17	1.00	0.58	0.00	0.08	0.17	1.00	0.75	0.00	0.00	0.08	1.00	0.75	0.00	0.08	1.00
	H	# Subj.	0	0	0	9	1	0	2	12	8	1	1	2	12	11	0	0	1	12	10	1	1	12
		Prop.	0.00	0.00	0.00	0.75	0.08	0.00	0.17	1.00	0.67	0.08	0.08	0.17	1.00	0.92	0.00	0.00	0.08	1.00	0.83	0.08	0.08	1.00
VH	# Subj.	0	0	1	7	2	0	2	12	5	3	1	2	12	7	2	1	1	12	9	1	1	12	
	Prop.	0.00	0.00	0.08	0.58	0.17	0.00	0.17	1.00	0.42	0.25	0.08	0.17	1.00	0.58	0.17	0.08	0.08	1.00	0.75	0.08	0.08	1.00	
G. Text	M	# Subj.	0	0	0	11	0	0	1	12	6	2	3	1	12	12	0	0	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	0.92	0.00	0.00	0.08	1.00	0.50	0.17	0.25	0.08	1.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00
	H	# Subj.	0	0	0	8	3	0	1	12	6	3	2	1	12	10	1	1	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	0.67	0.25	0.00	0.08	1.00	0.50	0.25	0.17	0.08	1.00	0.83	0.08	0.08	0.00	1.00	1.00	0.00	0.00	1.00

**Table X.5. Proportion of older drivers who exceeded the Red-line Threshold for S-RP graphic map format tasks.**

IVIS Tasks			Skipped Tasks			Number of Eye Glances					Peak Eye Glance Length					Task Completion Time					Lane Deviations			
Presentation Format	Density Level		Not presented, safety concern	Not presented, below red-line	Skipped by driver	1 - 4 glances	5 - 8 glances	9+ glances	Missing data	Total	Less than or equal to 2.0 secs.	2.0 > secs. ≤ 2.5	Greater than 2.5 secs.	Missing data	Total	Greater than 13 secs.	13 > secs. ≤ 20	Greater than 20 secs.	Missing data	Total	No deviations	1+ deviations	Missing data	Total
Graphic Text	M	# Subj.	0	0	1	11	0	0	0	12	10	0	1	0	12	11	0	0	0	12	11	0	0	12
		Prop.	0.00	0.00	0.08	0.92	0.00	0.00	0.00	1.00	0.83	0.00	0.08	0.00	1.00	0.92	0.00	0.00	0.00	1.00	0.92	0.00	0.00	1.00
	H	# Subj.	0	0	1	6	5	0	0	12	9	1	1	0	12	11	0	0	0	12	11	0	0	12
		Prop.	0.00	0.00	0.08	0.50	0.42	0.00	0.00	1.00	0.75	0.08	0.08	0.00	1.00	0.92	0.00	0.00	0.00	1.00	0.92	0.00	0.00	1.00
	VH	# Subj.	4	0	1	5	2	0	0	12	7	0	0	0	12	7	0	0	0	12	6	1	0	12
		Prop.	0.33	0.00	0.08	0.42	0.17	0.00	0.00	1.00	0.58	0.00	0.00	0.00	1.00	0.58	0.00	0.00	0.00	1.00	0.50	0.08	0.00	1.00
Graphic Icon	L	# Subj.	0	1	1	7	2	1	0	12	6	2	2	0	12	9	0	1	0	12	9	1	0	12
		Prop.	0.00	0.08	0.08	0.58	0.17	0.08	0.00	1.00	0.50	0.17	0.17	0.00	1.00	0.75	0.00	0.08	0.00	1.00	0.75	0.08	0.00	1.00
	5x2	# Subj.	0	0	1	8	2	1	0	12	8	0	3	0	12	10	0	1	0	12	10	1	0	12
		Prop.	0.00	0.00	0.08	0.67	0.17	0.08	0.00	1.00	0.67	0.00	0.25	0.00	1.00	0.83	0.00	0.08	0.00	1.00	0.83	0.08	0.00	1.00
	M	# Subj.	0	0	1	6	4	1	0	12	8	2	1	0	12	9	0	2	0	12	10	1	0	12
		Prop.	0.00	0.00	0.08	0.50	0.33	0.08	0.00	1.00	0.67	0.17	0.08	0.00	1.00	0.75	0.00	0.17	0.00	1.00	0.83	0.08	0.00	1.00
H	# Subj.	2	0	2	5	1	1	1	12	6	0	1	1	12	7	1	0	0	12	7	1	0	12	
	Prop.	0.17	0.00	0.17	0.42	0.08	0.08	0.08	1.00	0.50	0.00	0.08	0.08	1.00	0.58	0.08	0.00	0.00	1.00	0.58	0.08	0.00	1.00	
Graphic Text	M	# Subj.	0	1	1	9	0	1	0	12	8	1	1	0	12	8	2	0	0	12	10	0	0	12
		Prop.	0.00	0.08	0.08	0.75	0.00	0.08	0.00	1.00	0.67	0.08	0.08	0.00	1.00	0.67	0.17	0.00	0.00	1.00	0.83	0.00	0.00	1.00
	H	# Subj.	1	1	1	3	6	0	0	12	5	4	0	0	12	9	0	0	0	12	9	0	0	12
		Prop.	0.08	0.08	0.08	0.25	0.50	0.00	0.00	1.00	0.42	0.33	0.00	0.00	1.00	0.75	0.00	0.00	0.00	1.00	0.75	0.00	0.00	1.00
	VH	# Subj.	2	0	1	0	3	3	3	12	5	0	1	3	12	2	3	1	3	12	5	1	3	12
		Prop.	0.17	0.00	0.08	0.00	0.25	0.25	0.25	1.00	0.42	0.00	0.08	0.25	1.00	0.17	0.25	0.08	0.25	1.00	0.42	0.08	0.25	1.00
Graphic Icon	M	# Subj.	0	0	1	10	1	0	0	12	9	0	2	0	12	11	0	0	0	12	10	1	0	12
		Prop.	0.00	0.00	0.08	0.83	0.08	0.00	0.00	1.00	0.75	0.00	0.17	0.00	1.00	0.92	0.00	0.00	0.00	1.00	0.83	0.08	0.00	1.00
	H	# Subj.	0	0	1	4	4	3	0	12	9	0	2	0	12	8	1	2	0	12	10	1	0	12
		Prop.	0.00	0.00	0.08	0.33	0.33	0.25	0.00	1.00	0.75	0.00	0.17	0.00	1.00	0.67	0.08	0.17	0.00	1.00	0.83	0.08	0.00	1.00
	VH	# Subj.	8	0	1	1	1	1	0	12	3	0	0	0	12	2	0	1	0	12	3	0	0	12
		Prop.	0.67	0.00	0.08	0.08	0.08	0.08	0.00	1.00	0.25	0.00	0.00	0.00	1.00	0.17	0.00	0.08	0.00	1.00	0.25	0.00	0.00	1.00
G. Text	M	# Subj.	0	0	1	7	3	0	1	12	5	3	2	1	12	10	0	1	0	12	10	1	0	12
		Prop.	0.00	0.00	0.08	0.58	0.25	0.00	0.08	1.00	0.42	0.25	0.17	0.08	1.00	0.83	0.00	0.08	0.00	1.00	0.83	0.08	0.00	1.00
	H	# Subj.	0	0	1	4	2	5	0	12	10	0	1	0	12	5	3	3	0	12	11	0	0	12
		Prop.	0.00	0.00	0.08	0.33	0.17	0.42	0.00	1.00	0.83	0.00	0.08	0.00	1.00	0.42	0.25	0.25	0.00	1.00	0.92	0.00	0.00	1.00

**Table X.6. Paired T value results for Yellow-line Thresholds for S-RP, graphic text format tasks.**

			Variable	N	Mean	Std. Error	T value	P value
<b>S-RP</b>	<b>Medium (3x3)</b>	<b>Young</b>	MNSPEED	4	.	.	.	.
			MXSTER	4	.	.	.	.
			NMIRROR	4	.	.	.	.
		<b>Middle Age</b>	MNSPEED	8	-1.13	1.33	-0.85	0.42
			MXSTER	8	-0.36	2.32	-0.16	0.88
			NMIRROR	7	0.76	0.33	2.29	0.06
		<b>Older</b>	MNSPEED	11	0.93	1.81	0.51	0.62
			MXSTER	11	-11.03	3.67	-3.01	0.01
			NMIRROR	11	0.69	0.32	2.13	0.06
	<b>High (5x4)</b>	<b>Young</b>	MNSPEED	12	4.20	1.07	3.94	0.00
			MXSTER	12	-9.05	3.51	-2.58	0.03
			NMIRROR	12	0.65	0.10	6.20	0.00
		<b>Middle Age</b>	MNSPEED	12	1.72	1.20	1.43	0.18
			MXSTER	12	-4.73	1.74	-2.71	0.02
			NMIRROR	11	0.52	0.20	2.57	0.03
		<b>Older</b>	MNSPEED	11	1.15	1.22	0.94	0.37
			MXSTER	11	-13.53	4.05	-3.34	0.01
			NMIRROR	11	0.92	0.31	2.94	0.01
	<b>Very High (5x6)</b>	<b>Young</b>	MNSPEED	11	-2.35	1.24	-1.90	0.09
			MXSTER	11	-2.33	1.50	-1.55	0.15
			NMIRROR	11	0.36	0.11	3.35	0.01
		<b>Middle Age</b>	MNSPEED	10	-0.56	0.88	-0.64	0.54
			MXSTER	10	-3.27	2.24	-1.46	0.18
			NMIRROR	9	0.94	0.19	4.97	0.00
		<b>Older</b>	MNSPEED	7	1.54	2.19	0.70	0.51
			MXSTER	7	-9.44	3.78	-2.50	0.05
			NMIRROR	7	0.61	0.61	1.00	0.36
<b>S-RPI</b>	<b>Medium (3x3)</b>	<b>Young</b>	MNSPEED	4	.	.	.	.
			MXSTER	4	.	.	.	.
			NMIRROR	4	.	.	.	.
		<b>Middle Age</b>	MNSPEED	7	-3.70	1.67	-2.22	0.07
			MXSTER	7	-6.33	3.20	-1.98	0.10
			NMIRROR	7	0.46	0.32	1.43	0.20
		<b>Older</b>	MNSPEED	10	-0.46	1.77	-0.26	0.80
			MXSTER	10	-4.18	3.28	-1.27	0.23
			NMIRROR	10	0.61	0.52	1.16	0.28
	<b>High (5x4)</b>	<b>Young</b>	MNSPEED	12	1.24	1.02	1.22	0.25
			MXSTER	12	-7.98	2.75	-2.91	0.01
			NMIRROR	12	0.75	0.21	3.52	0.00
		<b>Middle Age</b>	MNSPEED	12	0.69	1.63	0.42	0.68
			MXSTER	12	-6.64	3.55	-1.87	0.09
			NMIRROR	11	0.68	0.22	3.05	0.01
		<b>Older</b>	MNSPEED	9	0.52	1.25	0.42	0.69
			MXSTER	9	-18.29	2.79	-6.56	0.00
			NMIRROR	9	0.66	0.16	4.23	0.00
	<b>Very High (5x6)</b>	<b>Young</b>	MNSPEED	12	0.59	1.08	0.54	0.60
			MXSTER	12	-7.86	2.71	-2.90	0.01
			NMIRROR	12	0.85	0.22	3.87	0.00
		<b>Middle Age</b>	MNSPEED	10	1.26	1.09	1.15	0.28
			MXSTER	10	-13.54	3.47	-3.90	0.00
			NMIRROR	9	0.83	0.35	2.41	0.04
		<b>Older</b>	MNSPEED	6	-2.18	2.98	-0.73	0.50
			MXSTER	6	-19.24	7.31	-2.63	0.05
			NMIRROR	6	0.66	0.27	2.47	0.06

**Table X.6. (con't) Paired T value results for Yellow-line Thresholds for S-RP, graphic text format tasks.**

			Variable	N	Mean	Std. Error	T value	P value
S-compute	Medium (3x3)	Young	MNSPEED	12	2.59	1.35	1.92	0.08
			MXSTER	12	-6.92	1.83	-3.78	0.00
			NMIRROR	12	0.42	0.26	1.63	0.13
		Middle Age	MNSPEED	12	0.44	1.28	0.34	0.74
			MXSTER	12	-7.08	2.68	-2.64	0.02
			NMIRROR	11	0.89	0.14	6.50	0.00
		Older	MNSPEED	11	2.67	1.98	1.35	0.21
			MXSTER	11	-10.71	2.79	-3.85	0.00
			NMIRROR	11	0.98	0.32	3.05	0.01
	High (5x4)	Young	MNSPEED	12	-1.71	0.92	-1.85	0.09
			MXSTER	12	-10.57	2.44	-4.34	0.00
			NMIRROR	12	0.50	0.23	2.19	0.05
		Middle Age	MNSPEED	12	1.07	1.95	0.55	0.59
			MXSTER	12	-4.24	2.15	-1.97	0.07
			NMIRROR	11	0.43	0.20	2.16	0.06
		Older	MNSPEED	11	1.72	1.70	1.02	0.33
			MXSTER	11	-10.12	3.61	-2.80	0.02
			NMIRROR	11	0.33	0.86	0.39	0.71



**Table X.7. Paired T value results for Yellow-line Thresholds for S-RP, graphic icon format tasks.**

			Variable	N	Mean	Std. Error	T value	P value
<b>S-RP</b>	<b>Low (3x2)</b>	<b>Young</b>	MNSPEED	12	2.39	1.68	1.42	0.18
			MXSTER	12	-9.97	3.18	-3.13	0.01
			NMIRROR	12	0.73	0.25	2.97	0.01
		<b>Middle Age</b>	MNSPEED	11	0.66	1.69	0.39	0.70
			MXSTER	11	-4.11	2.92	-1.41	0.19
			NMIRROR	11	0.86	0.13	6.54	0.00
		<b>Older</b>	MNSPEED	10	0.36	1.76	0.20	0.84
			MXSTER	10	-13.18	5.05	-2.61	0.03
			NMIRROR	10	0.74	0.15	4.82	0.00
	<b>Medium (3x3)</b>	<b>Young</b>	MNSPEED	5	.	.	.	.
			MXSTER	5	.	.	.	.
			NMIRROR	5	.	.	.	.
		<b>Middle Age</b>	MNSPEED	8	-0.75	1.16	-0.64	0.54
			MXSTER	8	-2.58	2.29	-1.13	0.30
			NMIRROR	7	0.86	0.23	3.72	0.01
		<b>Older</b>	MNSPEED	11	1.98	1.09	1.81	0.10
			MXSTER	11	-9.86	2.97	-3.32	0.01
			NMIRROR	11	0.58	0.60	0.96	0.36
	<b>Medium (5x2)</b>	<b>Young</b>	MNSPEED	12	0.41	1.12	0.37	0.72
			MXSTER	12	-3.76	1.56	-2.41	0.03
			NMIRROR	12	0.56	0.29	1.91	0.08
		<b>Middle Age</b>	MNSPEED	12	-1.41	1.21	-1.16	0.27
			MXSTER	12	-3.78	3.53	-1.07	0.31
			NMIRROR	11	0.80	0.16	5.05	0.00
		<b>Older</b>	MNSPEED	11	0.99	1.29	0.77	0.46
			MXSTER	11	-10.42	3.35	-3.11	0.01
			NMIRROR	11	0.70	0.21	3.32	0.01
	<b>High (5x4)</b>	<b>Young</b>	MNSPEED	12	3.64	1.08	3.36	0.01
			MXSTER	12	-11.36	1.88	-6.04	0.00
			NMIRROR	12	0.56	0.24	2.32	0.04
		<b>Middle Age</b>	MNSPEED	11	-0.01	1.15	-0.01	0.99
			MXSTER	11	-7.89	2.68	-2.95	0.01
			NMIRROR	10	0.90	0.21	4.26	0.00
		<b>Older</b>	MNSPEED	8	0.47	2.52	0.19	0.86
			MXSTER	8	-17.19	3.49	-4.93	0.00
			NMIRROR	8	0.89	0.42	2.10	0.07
<b>S-RPI</b>	<b>Medium (3x3)</b>	<b>Young</b>	MNSPEED	6	5.49	1.15	4.79	0.00
			MXSTER	6	-2.14	3.75	-0.57	0.59
			NMIRROR	6	-0.25	0.57	-0.44	0.68
		<b>Middle Age</b>	MNSPEED	9	-1.52	1.66	-0.92	0.39
			MXSTER	9	-2.42	3.64	-0.66	0.52
			NMIRROR	8	0.59	0.29	2.07	0.08
		<b>Older</b>	MNSPEED	11	2.97	1.09	2.73	0.02
			MXSTER	11	-7.26	3.54	-2.05	0.07
			NMIRROR	11	0.86	0.30	2.90	0.02
	<b>High (5x4)</b>	<b>Young</b>	MNSPEED	12	0.82	1.11	0.74	0.48
			MXSTER	12	-7.81	1.78	-4.38	0.00
			NMIRROR	12	0.81	0.22	3.77	0.00
		<b>Middle Age</b>	MNSPEED	11	3.70	1.11	3.32	0.01
			MXSTER	11	-12.51	4.01	-3.12	0.01
			NMIRROR	10	0.80	0.18	4.50	0.00
		<b>Older</b>	MNSPEED	11	0.85	1.25	0.67	0.52
			MXSTER	11	-14.12	3.33	-4.24	0.00
			NMIRROR	11	0.95	0.29	3.26	0.01
	<b>Very High (5x6)</b>	<b>Young</b>	MNSPEED	11	-1.21	1.62	-0.75	0.47
			MXSTER	11	-4.96	2.04	-2.43	0.04
			NMIRROR	11	0.36	0.30	1.23	0.25
		<b>Middle Age</b>	MNSPEED	10	0.57	1.49	0.38	0.71
			MXSTER	10	-17.82	4.41	-4.04	0.00
			NMIRROR	9	0.67	0.15	4.44	0.00
		<b>Older</b>	MNSPEED	3	.	.	.	.
			MXSTER	3	.	.	.	.
			NMIRROR	3	.	.	.	.