

APPENDIX M

RED-LINE AND YELLOW-LINE THRESHOLDS FOR

SP-HOTEL TASKS

Table M.1. Red-line and Yellow-line Thresholds for SP-hotel tasks.

IVIS Tasks			Young Drivers						Middle Age Drivers						Older Drivers						All Drivers														
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									
Table	L	# Subj.	0	0	0	10	2	12	0 [#]	0 [#]	0 [#]	0	0	0	7	5	12	0 [#]	0 [#]	0 [#]	1	5	6	4	2	12	1	X	1	1	5	6	21	9	36
		Prop.	.00	.00	.00	.83	.17	1.0				.00	.00	.00	.58	.42	1.0				.08	.42	.50	.33	.17	1.0	1	X	1	.03	.14	.17	.58	.25	1.0
	M	# Subj.	0	1	1	10	1	12	0	0	0	0	3	3	7	2	12	0	0	X	4	3	7	5	0	12	4	4	X	4	7	11	22	3	36
		Prop.	.00	.08	.08	.83	.08	1.0				.00	.25	.25	.58	.17	1.0			X	.33	.25	.58	.42	.00	1.0	4	4	X	.11	.19	.31	.61	.08	1.0
	H	# Subj.	0	7	7	5	0	12	0	X	X	1	7	8	4	0	12	X	X	X	5	2	7	5	0	12	X	X	X	6	16	22	14	0	36
		Prop.	.00	.58	.58	.42	.00	1.0		X	X	.08	.58	.67	.33	.00	1.0	X	X	X	.42	.17	.58	.42	.00	1.0	X	X	X	.17	.44	.61	.39	.00	1.0
VH	# Subj.	5	3	8	4	0	12	5	X	X	6	3	9	3	0	12	6	X	X	11	0	11	1	0	12	11 [#]	11 [#]	11 [#]	22	6	28	8	0	36	
	Prop.	.42	.25	.67	.33	.00	1.0		X	X	.50	.25	.75	.25	.00	1.0	6	X	X	.92	.00	.92	.08	.00	1.0	11 [#]	11 [#]	11 [#]	.61	.17	.78	.22	.00	1.0	
Paragraph	L	# Subj.	0	0	0	12	0	12	0 [#]	0 [#]	0 [#]	0	2	2	9	1	12	0 [#]	0 [#]	0 [#]	1	6	7	5	0	12	1	X	1	1	8	9	26	1	36
		Prop.	.00	.00	.00	1.0	.00	1.0				.00	.17	.17	.75	.08	1.0				.08	.50	.58	.42	.00	1.0	1	X	1	.03	.22	.25	.72	.03	1.0
	M	# Subj.	0	1	1	11	0	12	X	X	X	1	2	3	8	1	12	1	X	1	4	4	8	4	0	12	4	X	4	5	7	12	23	1	36
		Prop.	.00	.08	.08	.92	.00	1.0	X	X	X	.08	.17	.25	.67	.08	1.0	1	X	1	.33	.33	.67	.33	.00	1.0	4	X	4	.14	.19	.33	.64	.03	1.0
	H	# Subj.	5	7	12	0	0	12	5	X	5	1	11	12	0	0	12	1	X	X	10	2	12	0	0	12	10 [#]	10 [#]	10 [#]	16	20	36	0	0	36
		Prop.	.42	.58	1.0	.00	.00	1.0	5	X	5	.08	.92	1.0	.00	.00	1.0	1	X	X	.83	.17	1.0	.00	.00	1.0	10 [#]	10 [#]	10 [#]	.44	.56	1.0	.00	.00	1.0
Graphic Text	L	# Subj.	0	0	0	8	4	12	0 [#]	0 [#]	0 [#]	0	0	0	8	4	12	0 [#]	0 [#]	0 [#]	1	4	5	7	0	12	1	1	1	1	4	5	23	8	36
		Prop.	.00	.00	.00	.67	.33	1.0				.00	.00	.00	.67	.33	1.0				.08	.33	.42	.58	.00	1.0	1	1	1	.03	.11	.14	.64	.22	1.0
	M	# Subj.	0	0	0	8	4	12	0 [#]	0 [#]	0 [#]	0	1	1	8	3	12	0	X	X	5	1	6	6	0	12	5	5	X	5	2	7	22	7	36
		Prop.	.00	.00	.00	.67	.33	1.0				.00	.08	.08	.67	.25	1.0	0	X	X	.42	.08	.50	.50	.00	1.0	5	5	X	.14	.06	.19	.61	.19	1.0
	H	# Subj.	0	6	6	6	0	12	0	X	X	0	9	9	2	1	12	0	X	X	6	6	12	0	0	12	6	X	X	6	21	27	8	1	36
		Prop.	.00	.50	.50	.50	.00	1.0	0	X	X	.00	.75	.75	.17	.08	1.0	0	X	X	.50	.50	1.0	.00	.00	1.0	6	X	X	.17	.58	.75	.22	.03	1.0
VH	# Subj.	1	5	6	6	0	12	1	X	X	7	1	8	3	1	12	7 [#]	7 [#]	7 [#]	12	0	12	0	0	12	12 [#]	12 [#]	12 [#]	20	6	26	9	1	36	
	Prop.	.08	.42	.50	.50	.00	1.0	1	X	X	.58	.08	.67	.25	.08	1.0	7 [#]	7 [#]	7 [#]	1.0	.00	1.0	.00	.00	1.0	12 [#]	12 [#]	12 [#]	.56	.17	.72	.25	.03	1.0	
Graphic Icon	L	# Subj.	0	0	0	10	2	12	0 [#]	0 [#]	0 [#]	0	1	1	8	3	12	0 [#]	0 [#]	0 [#]	1	4	5	7	0	12	1	X	X	1	5	6	25	5	36
		Prop.	.00	.00	.00	.83	.17	1.0				.00	.08	.08	.67	.25	1.0				.08	.33	.42	.58	.00	1.0	1	X	X	.03	.14	.17	.69	.14	1.0
	M	# Subj.	0	0	0	10	2	12	0 [#]	0 [#]	0 [#]	0	1	1	9	2	12	0	0	0	3	8	11	1	0	12	3	X	X	3	9	12	20	4	36
		Prop.	.00	.00	.00	.83	.17	1.0				.00	.08	.08	.75	.17	1.0	0	0	0	.25	.67	.92	.08	.00	1.0	3	X	X	.08	.25	.33	.56	.11	1.0
	H	# Subj.	0	4	4	8	0	12	X	X	X	0	8	8	4	0	12	X	X	X	10	1	11	1	0	12	10 [#]	10 [#]	10 [#]	10	13	23	13	0	36
		Prop.	.00	.33	.33	.67	.00	1.0	X	X	X	.00	.67	.67	.33	.00	1.0	X	X	X	.83	.08	.92	.08	.00	1.0	10 [#]	10 [#]	10 [#]	.28	.36	.64	.36	.00	1.0
VH	# Subj.	2	3	5	7	0	12	2	X	X	5	2	7	5	0	12	5	5	X	12	0	12	0	0	12	12 [#]	12 [#]	12 [#]	19	5	24	12	0	36	
	Prop.	.17	.25	.42	.58	.00	1.0	2	X	X	.42	.17	.58	.42	.00	1.0	5	5	X	1.0	.00	1.0	.00	.00	1.0	12 [#]	12 [#]	12 [#]	.53	.14	.67	.33	.00	1.0	

Table M.2. Proportion of drivers from all age groups combined who exceeded the Red-line Threshold for SP-hotel 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	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
Table	L	# Subj.	0	18	1	1	3	4	9	36	7	1	0	9	36	4	2	2	9	36	7	1	9	36
		Prop.	0.00	0.50	0.03	0.03	0.08	0.11	0.25	1.00	0.19	0.03	0.00	0.25	1.00	0.11	0.06	0.06	0.25	1.00	0.19	0.03	0.25	1.00
	M	# Subj.	2	6	2	13	7	2	4	36	17	1	4	4	36	22	0	1	3	36	20	3	3	36
		Prop.	0.06	0.17	0.06	0.36	0.19	0.06	0.11	1.00	0.47	0.03	0.11	0.11	1.00	0.61	0.00	0.03	0.08	1.00	0.56	0.08	0.08	1.00
	H	# Subj.	4	1	2	5	11	12	1	36	18	5	5	1	36	14	6	9	0	36	28	1	0	36
		Prop.	0.11	0.03	0.06	0.14	0.31	0.33	0.03	1.00	0.50	0.14	0.14	0.03	1.00	0.39	0.17	0.25	0.00	1.00	0.78	0.03	0.00	1.00
	VH	# Subj.	21	0	1	3	6	5	0	36	8	4	2	0	36	9	3	2	0	36	14	0	0	36
		Prop.	0.58	0.00	0.03	0.08	0.17	0.14	0.00	1.00	0.22	0.11	0.06	0.00	1.00	0.25	0.08	0.06	0.00	1.00	0.39	0.00	0.00	1.00
Paragraph	L	# Subj.	0	14	1	4	10	6	1	36	14	1	5	1	36	13	3	4	1	36	20	0	1	36
		Prop.	0.00	0.39	0.03	0.11	0.28	0.17	0.03	1.00	0.39	0.03	0.14	0.03	1.00	0.36	0.08	0.11	0.03	1.00	0.56	0.00	0.03	1.00
	M	# Subj.	4	0	1	10	14	5	2	36	23	4	2	2	36	24	4	2	1	36	29	1	1	36
		Prop.	0.11	0.00	0.03	0.28	0.39	0.14	0.06	1.00	0.64	0.11	0.06	0.06	1.00	0.67	0.11	0.06	0.03	1.00	0.81	0.03	0.03	1.00
	H	# Subj.	11	0	5	0	1	18	1	36	13	0	6	1	36	1	3	16	0	36	19	1	0	36
		Prop.	0.31	0.00	0.14	0.00	0.03	0.50	0.03	1.00	0.36	0.00	0.17	0.03	1.00	0.03	0.08	0.44	0.00	1.00	0.53	0.03	0.00	1.00
Graphic Text	L	# Subj.	0	17	1	2	5	3	8	36	8	1	1	8	36	6	2	2	8	36	9	1	8	36
		Prop.	0.00	0.47	0.03	0.06	0.14	0.08	0.22	1.00	0.22	0.03	0.03	0.22	1.00	0.17	0.06	0.06	0.22	1.00	0.25	0.03	0.22	1.00
	M	# Subj.	4	3	1	7	11	2	8	36	16	4	0	8	36	19	0	2	7	36	21	0	7	36
		Prop.	0.11	0.08	0.03	0.19	0.31	0.06	0.22	1.00	0.44	0.11	0.00	0.22	1.00	0.53	0.00	0.06	0.19	1.00	0.58	0.00	0.19	1.00
	H	# Subj.	5	1	1	1	11	15	2	36	18	3	6	2	36	10	8	10	1	36	23	5	1	36
		Prop.	0.14	0.03	0.03	0.03	0.31	0.42	0.06	1.00	0.50	0.08	0.17	0.06	1.00	0.28	0.22	0.28	0.03	1.00	0.64	0.14	0.03	1.00
	VH	# Subj.	19	0	1	0	10	5	1	36	12	3	0	1	36	8	3	4	1	36	15	0	1	36
		Prop.	0.53	0.00	0.03	0.00	0.28	0.14	0.03	1.00	0.33	0.08	0.00	0.03	1.00	0.22	0.08	0.11	0.03	1.00	0.42	0.00	0.03	1.00
Graphic Icon	L	# Subj.	0	17	1	0	8	5	5	36	10	2	1	5	36	8	2	3	5	36	12	1	5	36
		Prop.	0.00	0.47	0.03	0.00	0.22	0.14	0.14	1.00	0.28	0.06	0.03	0.14	1.00	0.22	0.06	0.08	0.14	1.00	0.33	0.03	0.14	1.00
	M	# Subj.	2	7	1	4	8	9	5	36	15	4	2	5	36	11	2	9	4	36	20	2	4	36
		Prop.	0.06	0.19	0.03	0.11	0.22	0.25	0.14	1.00	0.42	0.11	0.06	0.14	1.00	0.31	0.06	0.25	0.11	1.00	0.56	0.06	0.11	1.00
	H	# Subj.	9	0	1	2	14	9	1	36	21	2	2	1	36	15	7	4	0	36	24	2	0	36
		Prop.	0.25	0.00	0.03	0.06	0.39	0.25	0.03	1.00	0.58	0.06	0.06	0.03	1.00	0.42	0.19	0.11	0.00	1.00	0.67	0.06	0.00	1.00
	VH	# Subj.	17	0	2	3	10	4	0	36	14	2	1	0	36	11	2	4	0	36	17	0	0	36
		Prop.	0.47	0.00	0.06	0.08	0.28	0.11	0.00	1.00	0.39	0.06	0.03	0.00	1.00	0.31	0.06	0.11	0.00	1.00	0.47	0.00	0.00	1.00

Table M.3. Proportion of young drivers who exceeded the Red-line Threshold for SP-hotel 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	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
Table	L	# Subj.	0	10	0	0	0	0	2	12	0	0	0	2	12	0	0	0	2	12	0	0	2	12
		Prop.	0.00	0.83	0.00	0.00	0.00	0.00	0.17	1.00	0.00	0.00	0.00	0.17	1.00	0.00	0.00	0.00	0.17	1.00	0.00	0.00	0.17	1.00
	M	# Subj.	0	5	0	5	1	0	1	12	5	0	1	1	12	6	0	0	1	12	6	0	1	12
		Prop.	0.00	0.42	0.00	0.42	0.08	0.00	0.08	1.00	0.42	0.00	0.08	0.08	1.00	0.50	0.00	0.00	0.08	1.00	0.50	0.00	0.08	1.00
	H	# Subj.	0	0	0	2	4	6	0	12	8	3	1	0	12	5	3	4	0	12	11	1	0	12
		Prop.	0.00	0.00	0.00	0.17	0.33	0.50	0.00	1.00	0.67	0.25	0.08	0.00	1.00	0.42	0.25	0.33	0.00	1.00	0.92	0.08	0.00	1.00
VH	# Subj.	5	0	0	2	3	2	0	12	5	1	1	0	12	4	3	0	0	12	7	0	0	12	
	Prop.	0.42	0.00	0.00	0.17	0.25	0.17	0.00	1.00	0.42	0.08	0.08	0.00	1.00	0.33	0.25	0.00	0.00	1.00	0.58	0.00	0.00	1.00	
Paragraph	L	# Subj.	0	7	0	1	4	0	0	12	5	0	0	0	12	4	1	0	0	12	5	0	0	12
		Prop.	0.00	0.58	0.00	0.08	0.33	0.00	0.00	1.00	0.42	0.00	0.00	0.00	1.00	0.33	0.08	0.00	0.00	1.00	0.42	0.00	0.00	1.00
	M	# Subj.	0	0	0	4	7	1	0	12	10	2	0	0	12	11	1	0	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	0.33	0.58	0.08	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
	H	# Subj.	1	0	4	0	0	7	0	12	6	0	1	0	12	0	2	5	0	12	7	0	0	12
		Prop.	0.08	0.00	0.33	0.00	0.00	0.58	0.00	1.00	0.50	0.00	0.08	0.00	1.00	0.00	0.17	0.42	0.00	1.00	0.58	0.00	0.00	1.00
Graphic Text	L	# Subj.	0	7	0	0	1	0	4	12	1	0	0	4	12	1	0	0	4	12	1	0	4	12
		Prop.	0.00	0.58	0.00	0.00	0.08	0.00	0.33	1.00	0.08	0.00	0.00	0.33	1.00	0.08	0.00	0.00	0.33	1.00	0.08	0.00	0.33	1.00
	M	# Subj.	0	3	0	2	3	0	4	12	4	1	0	4	12	5	0	0	4	12	5	0	4	12
		Prop.	0.00	0.25	0.00	0.17	0.25	0.00	0.33	1.00	0.33	0.08	0.00	0.33	1.00	0.42	0.00	0.00	0.33	1.00	0.42	0.00	0.33	1.00
	H	# Subj.	0	1	0	0	7	4	0	12	8	1	2	0	12	6	3	2	0	12	9	2	0	12
		Prop.	0.00	0.08	0.00	0.00	0.58	0.33	0.00	1.00	0.67	0.08	0.17	0.00	1.00	0.50	0.25	0.17	0.00	1.00	0.75	0.17	0.00	1.00
VH	# Subj.	1	0	0	0	7	4	0	12	9	2	0	0	12	6	1	4	0	12	11	0	0	12	
	Prop.	0.08	0.00	0.00	0.00	0.58	0.33	0.00	1.00	0.75	0.17	0.00	0.00	1.00	0.50	0.08	0.33	0.00	1.00	0.92	0.00	0.00	1.00	
Graphic Icon	L	# Subj.	0	10	0	0	0	0	2	12	0	0	0	2	12	0	0	0	2	12	0	0	2	12
		Prop.	0.00	0.83	0.00	0.00	0.00	0.00	0.17	1.00	0.00	0.00	0.00	0.17	1.00	0.00	0.00	0.00	0.17	1.00	0.00	0.00	0.17	1.00
	M	# Subj.	0	6	0	2	2	0	2	12	4	0	0	2	12	4	0	0	2	12	4	0	2	12
		Prop.	0.00	0.50	0.00	0.17	0.17	0.00	0.17	1.00	0.33	0.00	0.00	0.17	1.00	0.33	0.00	0.00	0.17	1.00	0.33	0.00	0.17	1.00
	H	# Subj.	0	0	0	1	8	3	0	12	11	0	1	0	12	8	4	0	0	12	12	0	0	12
		Prop.	0.00	0.00	0.00	0.08	0.67	0.25	0.00	1.00	0.92	0.00	0.08	0.00	1.00	0.67	0.33	0.00	0.00	1.00	1.00	0.00	0.00	1.00
VH	# Subj.	1	0	1	2	6	2	0	12	9	0	1	0	12	7	0	3	0	12	10	0	0	12	
	Prop.	0.08	0.00	0.08	0.17	0.50	0.17	0.00	1.00	0.75	0.00	0.08	0.00	1.00	0.58	0.00	0.25	0.00	1.00	0.83	0.00	0.00	1.00	

Table M.4. Proportion of middle age drivers who exceeded the Red-line Threshold for SP-hotel 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	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
Table	L	# Subj.	0	5	0	0	2	0	5	12	2	0	0	5	12	2	0	0	5	12	2	0	5	12
		Prop.	0.00	0.42	0.00	0.00	0.17	0.00	0.42	1.00	0.17	0.00	0.00	0.42	1.00	0.17	0.00	0.00	0.42	1.00	0.17	0.00	0.42	1.00
	M	# Subj.	0	1	0	5	3	0	3	12	6	0	2	3	12	9	0	0	2	12	8	1	2	12
		Prop.	0.00	0.08	0.00	0.42	0.25	0.00	0.25	1.00	0.50	0.00	0.17	0.25	1.00	0.75	0.00	0.00	0.17	1.00	0.67	0.08	0.17	1.00
	H	# Subj.	0	1	1	2	3	4	1	12	4	1	4	1	12	5	1	4	0	12	10	0	0	12
		Prop.	0.00	0.08	0.08	0.17	0.25	0.33	0.08	1.00	0.33	0.08	0.33	0.08	1.00	0.42	0.08	0.33	0.00	1.00	0.83	0.00	0.00	1.00
VH	# Subj.	6	0	0	1	2	3	0	12	2	3	1	0	12	4	0	2	0	12	6	0	0	12	
	Prop.	0.50	0.00	0.00	0.08	0.17	0.25	0.00	1.00	0.17	0.25	0.08	0.00	1.00	0.33	0.00	0.17	0.00	1.00	0.50	0.00	0.00	1.00	
Paragraph	L	# Subj.	0	7	0	2	1	1	1	12	2	0	2	1	12	3	1	0	1	12	4	0	1	12
		Prop.	0.00	0.58	0.00	0.17	0.08	0.08	0.08	1.00	0.17	0.00	0.17	0.08	1.00	0.25	0.08	0.00	0.08	1.00	0.33	0.00	0.08	1.00
	M	# Subj.	1	0	0	5	3	1	2	12	7	1	1	2	12	8	2	0	1	12	10	0	1	12
		Prop.	0.08	0.00	0.00	0.42	0.25	0.08	0.17	1.00	0.58	0.08	0.08	0.17	1.00	0.67	0.17	0.00	0.08	1.00	0.83	0.00	0.08	1.00
	H	# Subj.	1	0	0	0	1	9	1	12	5	0	5	1	12	1	1	9	0	12	11	0	0	12
		Prop.	0.08	0.00	0.00	0.00	0.08	0.75	0.08	1.00	0.42	0.00	0.42	0.08	1.00	0.08	0.08	0.75	0.00	1.00	0.92	0.00	0.00	1.00
Graphic Text	L	# Subj.	0	6	0	1	1	0	4	12	2	0	0	4	12	2	0	0	4	12	2	0	4	12
		Prop.	0.00	0.50	0.00	0.08	0.08	0.00	0.33	1.00	0.17	0.00	0.00	0.33	1.00	0.17	0.00	0.00	0.33	1.00	0.17	0.00	0.33	1.00
	M	# Subj.	0	0	0	3	4	1	4	12	7	1	0	4	12	8	0	1	3	12	9	0	3	12
		Prop.	0.00	0.00	0.00	0.25	0.33	0.08	0.33	1.00	0.58	0.08	0.00	0.33	1.00	0.67	0.00	0.08	0.25	1.00	0.75	0.00	0.25	1.00
	H	# Subj.	0	0	0	1	3	6	2	12	6	1	3	2	12	4	3	4	1	12	10	1	1	12
		Prop.	0.00	0.00	0.00	0.08	0.25	0.50	0.17	1.00	0.50	0.08	0.25	0.17	1.00	0.33	0.25	0.33	0.08	1.00	0.83	0.08	0.08	1.00
VH	# Subj.	7	0	0	0	3	1	1	12	3	1	0	1	12	2	2	0	1	12	4	0	1	12	
	Prop.	0.58	0.00	0.00	0.00	0.25	0.08	0.08	1.00	0.25	0.08	0.00	0.08	1.00	0.17	0.17	0.00	0.08	1.00	0.33	0.00	0.08	1.00	
Graphic Icon	L	# Subj.	0	6	0	0	2	1	3	12	3	0	0	3	12	2	0	1	3	12	2	1	3	12
		Prop.	0.00	0.50	0.00	0.00	0.17	0.08	0.25	1.00	0.25	0.00	0.00	0.25	1.00	0.17	0.00	0.08	0.25	1.00	0.17	0.08	0.25	1.00
	M	# Subj.	0	1	0	2	5	1	3	12	6	2	0	3	12	6	2	1	2	12	9	0	2	12
		Prop.	0.00	0.08	0.00	0.17	0.42	0.08	0.25	1.00	0.50	0.17	0.00	0.25	1.00	0.50	0.17	0.08	0.17	1.00	0.75	0.00	0.17	1.00
	H	# Subj.	0	0	0	1	5	5	1	12	8	2	1	1	12	6	3	3	0	12	10	2	0	12
		Prop.	0.00	0.00	0.00	0.08	0.42	0.42	0.08	1.00	0.67	0.17	0.08	0.08	1.00	0.50	0.25	0.25	0.00	1.00	0.83	0.17	0.00	1.00
VH	# Subj.	5	0	0	1	4	2	0	12	5	2	0	0	12	4	2	1	0	12	7	0	0	12	
	Prop.	0.42	0.00	0.00	0.08	0.33	0.17	0.00	1.00	0.42	0.17	0.00	0.00	1.00	0.33	0.17	0.08	0.00	1.00	0.58	0.00	0.00	1.00	

Table M.5. Proportion of older drivers who exceeded the Red-line Threshold for SP-hotel 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	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
Table	L	# Subj.	0	3	1	1	1	4	2	12	5	1	0	2	12	2	2	2	2	12	5	1	2	12
		Prop.	0.00	0.25	0.08	0.08	0.08	0.33	0.17	1.00	0.42	0.08	0.00	0.17	1.00	0.17	0.17	0.17	0.17	1.00	0.42	0.08	0.17	1.00
	M	# Subj.	2	0	2	3	3	2	0	12	6	1	1	0	12	7	0	1	0	12	6	2	0	12
		Prop.	0.17	0.00	0.17	0.25	0.25	0.17	0.00	1.00	0.50	0.08	0.08	0.00	1.00	0.58	0.00	0.08	0.00	1.00	0.50	0.17	0.00	1.00
	H	# Subj.	4	0	1	1	4	2	0	12	6	1	0	0	12	4	2	1	0	12	7	0	0	12
		Prop.	0.33	0.00	0.08	0.08	0.33	0.17	0.00	1.00	0.50	0.08	0.00	0.00	1.00	0.33	0.17	0.08	0.00	1.00	0.58	0.00	0.00	1.00
VH	# Subj.	10	0	1	0	1	0	0	12	1	0	0	0	12	1	0	0	0	12	1	0	0	12	
	Prop.	0.83	0.00	0.08	0.00	0.08	0.00	0.00	1.00	0.08	0.00	0.00	0.00	1.00	0.08	0.00	0.00	0.00	1.00	0.08	0.00	0.00	1.00	
Paragraph	L	# Subj.	0	0	1	1	5	5	0	12	7	1	3	0	12	6	1	4	0	12	11	0	0	12
		Prop.	0.00	0.00	0.08	0.08	0.42	0.42	0.00	1.00	0.58	0.08	0.25	0.00	1.00	0.50	0.08	0.33	0.00	1.00	0.92	0.00	0.00	1.00
	M	# Subj.	3	0	1	1	4	3	0	12	6	1	1	0	12	5	1	2	0	12	7	1	0	12
		Prop.	0.25	0.00	0.08	0.08	0.33	0.25	0.00	1.00	0.50	0.08	0.08	0.00	1.00	0.42	0.08	0.17	0.00	1.00	0.58	0.08	0.00	1.00
	H	# Subj.	9	0	1	0	0	2	0	12	2	0	0	0	12	0	0	2	0	12	1	1	0	12
		Prop.	0.75	0.00	0.08	0.00	0.00	0.17	0.00	1.00	0.17	0.00	0.00	0.00	1.00	0.00	0.00	0.17	0.00	1.00	0.08	0.08	0.00	1.00
Graphic Text	L	# Subj.	0	4	1	1	3	3	0	12	5	1	1	0	12	3	2	2	0	12	6	1	0	12
		Prop.	0.00	0.33	0.08	0.08	0.25	0.25	0.00	1.00	0.42	0.08	0.08	0.00	1.00	0.25	0.17	0.17	0.00	1.00	0.50	0.08	0.00	1.00
	M	# Subj.	4	0	1	2	4	1	0	12	5	2	0	0	12	6	0	1	0	12	7	0	0	12
		Prop.	0.33	0.00	0.08	0.17	0.33	0.08	0.00	1.00	0.42	0.17	0.00	0.00	1.00	0.50	0.00	0.08	0.00	1.00	0.58	0.00	0.00	1.00
	H	# Subj.	5	0	1	0	1	5	0	12	4	1	1	0	12	0	2	4	0	12	4	2	0	12
		Prop.	0.42	0.00	0.08	0.00	0.08	0.42	0.00	1.00	0.33	0.08	0.08	0.00	1.00	0.00	0.17	0.33	0.00	1.00	0.33	0.17	0.00	1.00
VH	# Subj.	11	0	1	0	0	0	0	12	0	0	0	0	12	0	0	0	0	12	0	0	0	12	
	Prop.	0.92	0.00	0.08	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	
Graphic Icon	L	# Subj.	0	1	1	0	6	4	0	12	7	2	1	0	12	6	2	2	0	12	10	0	0	12
		Prop.	0.00	0.08	0.08	0.00	0.50	0.33	0.00	1.00	0.58	0.17	0.08	0.00	1.00	0.50	0.17	0.17	0.00	1.00	0.83	0.00	0.00	1.00
	M	# Subj.	2	0	1	0	1	8	0	12	5	2	2	0	12	1	0	8	0	12	7	2	0	12
		Prop.	0.17	0.00	0.08	0.00	0.08	0.67	0.00	1.00	0.42	0.17	0.17	0.00	1.00	0.08	0.00	0.67	0.00	1.00	0.58	0.17	0.00	1.00
	H	# Subj.	9	0	1	0	1	1	0	12	2	0	0	0	12	1	0	1	0	12	2	0	0	12
		Prop.	0.75	0.00	0.08	0.00	0.08	0.08	0.00	1.00	0.17	0.00	0.00	0.00	1.00	0.08	0.00	0.08	0.00	1.00	0.17	0.00	0.00	1.00
VH	# Subj.	11	0	1	0	0	0	0	12	0	0	0	0	12	0	0	0	0	12	0	0	0	12	
	Prop.	0.92	0.00	0.08	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	

Table M.6. Paired T value, Yellow-line Threshold results for SP-hotel, paragraph format tasks.

		Variable	N	Mean	Std. Error	T value	P value
Low (3x2)	Young	MNSPEED	5	.	.	.	.
		MXSTER	5	.	.	.	.
		NMIRROR	5	.	.	.	.
	Middle Age	MNSPEED	4	.	.	.	.
		MXSTER	4	.	.	.	.
		NMIRROR	4	.	.	.	.
	Older	MNSPEED	11	2.91	1.69	1.73	0.12
		MXSTER	11	-9.73	2.39	-4.07	0.00
		NMIRROR	11	1.45	0.66	2.20	0.05
Medium (3x3)	Young	MNSPEED	12	2.58	0.95	2.72	0.02
		MXSTER	12	-8.37	1.98	-4.22	0.00
		NMIRROR	12	0.67	0.10	6.44	0.00
	Middle Age	MNSPEED	10	0.37	1.22	0.30	0.77
		MXSTER	10	-4.60	1.91	-2.41	0.04
		NMIRROR	9	0.58	0.30	1.92	0.09
	Older	MNSPEED	8	2.20	1.93	1.14	0.29
		MXSTER	8	-12.26	2.76	-4.45	0.00
		NMIRROR	8	1.35	0.66	2.06	0.08
High (5x4)	Young	MNSPEED	7	-0.78	1.57	-0.50	0.64
		MXSTER	7	-10.64	2.29	-4.65	0.00
		NMIRROR	7	1.00	0.57	1.74	0.13
	Middle Age	MNSPEED	11	3.02	1.97	1.53	0.16
		MXSTER	11	-5.66	1.69	-3.35	0.01
		NMIRROR	10	2.23	0.78	2.85	0.02
	Older	MNSPEED	2	.	.	.	.
		MXSTER	2	.	.	.	.
		NMIRROR	2	.	.	.	.

Table M.7. Paired T value, Yellow-line Threshold results for SP-hotel, table format tasks.

		Variable	N	Mean	Std. Error	T value	P value
Low (3x2)	Young	MNSPEED	0	.	.	.	.
		MXSTER	0	.	.	.	.
		NMIRROR	0	.	.	.	.
	Middle Age	MNSPEED	2	.	.	.	.
		MXSTER	2	.	.	.	.
		NMIRROR	2	.	.	.	.
	Older	MNSPEED	6	1.64	2.38	0.69	0.52
		MXSTER	6	-13.13	4.43	-2.96	0.03
		NMIRROR	6	1.83	0.91	2.01	0.10
Medium (3x3)	Young	MNSPEED	6	-1.46	1.55	-0.94	0.39
		MXSTER	6	-8.36	3.59	-2.33	0.07
		NMIRROR	6	0.17	0.26	0.65	0.54
	Middle Age	MNSPEED	9	-0.57	1.80	-0.32	0.76
		MXSTER	9	-7.56	3.66	-2.07	0.07
		NMIRROR	8	0.91	0.18	5.14	0.00
	Older	MNSPEED	8	-1.41	1.61	-0.87	0.41
		MXSTER	8	-6.54	5.31	-1.23	0.26
		NMIRROR	8	0.78	0.26	2.94	0.02
High (5x4)	Young	MNSPEED	12	1.17	1.02	1.15	0.27
		MXSTER	12	-8.94	3.26	-2.74	0.02
		NMIRROR	12	0.58	0.18	3.24	0.01
	Middle Age	MNSPEED	10	4.13	1.71	2.42	0.04
		MXSTER	10	-8.99	3.96	-2.27	0.05
		NMIRROR	9	1.17	0.29	3.96	0.00
	Older	MNSPEED	7	3.85	1.08	3.57	0.01
		MXSTER	7	-18.52	5.86	-3.16	0.02
		NMIRROR	7	0.96	0.39	2.46	0.05
Very High (5x6)	Young	MNSPEED	7	-0.01	1.50	-0.01	1.00
		MXSTER	7	-8.59	1.66	-5.17	0.00
		NMIRROR	7	0.89	0.09	9.68	0.00
	Middle Age	MNSPEED	6	4.19	2.58	1.62	0.17
		MXSTER	6	-14.06	5.24	-2.69	0.04
		NMIRROR	6	2.38	0.91	2.60	0.05
	Older	MNSPEED	1	.	.	.	.
		MXSTER	1	.	.	.	.
		NMIRROR	1	.	.	.	.

Table M.8. Paired T value, Yellow-line Threshold results for SP-hotel, graphic text format tasks.

		Variable	N	Mean	Std. Error	T value	P value
Low (3x2)	Young	MNSPEED	1	.	.	.	.
		MXSTER	1	.	.	.	.
		NMIRROR	1	.	.	.	.
	Middle Age	MNSPEED	2	.	.	.	.
		MXSTER	2	.	.	.	.
		NMIRROR	2	.	.	.	.
	Older	MNSPEED	7	-1.45	1.58	-0.92	0.39
		MXSTER	7	-11.86	4.92	-2.41	0.05
		NMIRROR	7	1.62	0.72	2.26	0.06
Medium (3x3)	Young	MNSPEED	5	.	.	.	.
		MXSTER	5	.	.	.	.
		NMIRROR	5	.	.	.	.
	Middle Age	MNSPEED	9	1.71	2.08	0.82	0.43
		MXSTER	9	-9.13	2.84	-3.22	0.01
		NMIRROR	8	0.78	0.21	3.75	0.01
	Older	MNSPEED	7	-2.12	2.56	-0.83	0.44
		MXSTER	7	-8.42	4.43	-1.90	0.01
		NMIRROR	7	0.80	0.21	3.76	0.01
High (5x4)	Young	MNSPEED	11	2.05	1.49	1.38	0.20
		MXSTER	11	-7.24	2.81	-2.58	0.03
		NMIRROR	11	0.75	0.16	4.64	0.00
	Middle Age	MNSPEED	11	0.54	1.63	0.33	0.75
		MXSTER	11	-11.84	3.58	-3.31	0.01
		NMIRROR	10	1.48	0.60	2.47	0.04
	Older	MNSPEED	6	-1.89	2.46	-0.77	0.48
		MXSTER	6	-11.14	1.97	-5.66	0.00
		NMIRROR	7	2.20	0.63	3.49	0.02
Very High (5x6)	Young	MNSPEED	11	0.31	1.48	0.21	0.84
		MXSTER	11	-7.55	2.27	-3.32	0.01
		NMIRROR	11	0.70	0.15	4.58	0.00
	Middle Age	MNSPEED	4	.	.	.	.
		MXSTER	4	.	.	.	.
		NMIRROR	4	.	.	.	.
	Older	MNSPEED	0	.	.	.	.
		MXSTER	0	.	.	.	.
		NMIRROR	0	.	.	.	.

Table M.9. Paired T value Yellow-line Threshold results for SP-hotel, graphic icon format tasks.

		Variable	N	Mean	Std. Error	T value	P value
Low (3x2)	Young	MNSPEED	0	.	.	.	.
		MXSTER	0	.	.	.	.
		NMIRROR	0	.	.	.	.
	Middle Age	MNSPEED	3	.	.	.	.
		MXSTER	3	.	.	.	.
		NMIRROR	3	.	.	.	.
	Older	MNSPEED	10	0.85	1.28	0.66	0.52
		MXSTER	10	-13.17	3.67	-3.59	0.01
		NMIRROR	10	1.56	0.54	2.88	0.02
Medium (3x3)	Young	MNSPEED	4	.	.	.	.
		MXSTER	4	.	.	.	.
		NMIRROR	4	.	.	.	.
	Middle Age	MNSPEED	9	1.09	1.37	0.80	0.45
		MXSTER	9	-6.29	3.95	-1.60	0.15
		NMIRROR	8	0.53	0.29	1.86	0.10
	Older	MNSPEED	9	0.52	1.60	0.33	0.75
		MXSTER	9	-18.71	4.15	-4.51	0.00
		NMIRROR	9	1.99	0.42	4.75	0.00
High (5x4)	Young	MNSPEED	12	3.99	1.54	2.60	0.02
		MXSTER	12	-9.90	2.90	-3.41	0.01
		NMIRROR	12	0.90	0.23	3.84	0.00
	Middle Age	MNSPEED	12	4.43	1.61	2.75	0.02
		MXSTER	12	-14.38	2.70	-5.34	0.00
		NMIRROR	11	0.75	0.30	2.47	0.03
	Older	MNSPEED	2	.	.	.	.
		MXSTER	2	.	.	.	.
		NMIRROR	2	.	.	.	.
Very High (5x6)	Young	MNSPEED	10	-2.24	1.11	-2.02	0.07
		MXSTER	10	10.09	3.43	-2.94	0.02
		NMIRROR	10	0.80	0.15	5.40	0.00
	Middle Age	MNSPEED	7	-0.58	1.84	-0.32	0.76
		MXSTER	7	-4.99	2.30	-2.17	0.07
		NMIRROR	7	1.54	0.52	2.98	0.02
	Older	MNSPEED	0	.	.	.	.
		MXSTER	0	.	.	.	.
		NMIRROR	0	.	.	.	.