

Appendix D-2

U.S. Study Phase 2 results from PVT Performance

U.S. Study Phase 2 PVT results

PVT Table 1: Descriptive Statistics by Driver, Time of Day, and Condition For PVT Response Variables: Raw Lapses																		
Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	1.00	.	1	0.00	.	17	0.24	0.44	.	.	.	.	.	.	16	0.06	0.25
32	2	2.50	0.71	1	2.00	.	15	2.27	2.19	2	5.50	3.54	.	.	.	18	4.33	3.41
33	2	1.00	0.00	1	0.00	.	16	0.50	0.63	1	0.00	.	.	.	.	19	0.37	0.68
34	.	.	.	1	1.00	.	15	1.13	1.88	.	.	.	.	.	.	17	7.53	6.93
35	2	1.50	2.12	.	.	.	18	0.44	0.62	.	.	.	.	.	.	17	5.53	5.42
36	1	6.00	.	.	.	.	18	3.61	3.84	.	.	.	.	.	.	18	3.28	2.72
37	.	.	.	.	.	.	20	0.85	1.04	.	.	.	1	3.00	.	17	1.65	1.00
38	1	3.00	.	.	.	.	18	4.06	4.22	.	.	.	.	.	.	18	3.06	2.55
39	8	1.75	2.05	3	0.00	0.00	9	2.11	4.40	9	2.11	2.03	1	0.00	.	8	0.00	0.00
40	7	8.71	5.06	3	0.67	1.15	9	12.67	13.42	8	12.25	5.34	1	18.00	.	10	19.60	10.67
41	5	5.60	8.17	1	2.00	.	13	7.62	8.53	4	16.75	22.54	.	.	.	8	6.38	10.38
42	8	6.63	4.34	1	1.00	.	10	2.50	3.27	8	7.25	7.85	.	.	.	8	2.75	1.91
Sum/Mean	37	3.77		12	0.83		178	3.17		32	7.31		3	7.00		174	4.54	

U.S. Study Phase 2 PVT results

**PVT Table 2: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Transformed Lapses**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	2.41	.	1	1.00	.	17	1.33	0.62	.	.	.	.	.	.	16	1.09	0.35
32	2	3.44	0.41	1	3.15	.	15	2.95	1.47	2	4.78	1.48	.	.	.	18	4.12	1.53
33	2	2.41	0.00	1	1.00	.	16	1.66	0.80	1	1.00	.	.	.	.	19	1.45	0.80
34	.	.	.	1	2.41	.	15	2.05	1.37	.	.	.	.	.	.	17	5.20	2.30
35	2	2.37	1.93	.	.	.	18	1.59	0.78	.	.	.	.	.	.	17	4.19	2.58
36	1	5.10	.	.	.	.	18	3.53	1.98	.	.	.	.	.	.	18	3.57	1.53
37	.	.	.	.	.	.	20	1.95	1.04	.	.	.	1	3.73	.	17	2.77	0.85
38	1	3.73	.	.	.	.	18	3.82	1.91	.	.	.	.	.	.	18	3.43	1.53
39	8	2.57	1.50	3	1.00	0.00	9	2.27	2.27	9	2.89	1.42	1	1.00	.	8	1.00	0.00
40	7	5.81	1.88	3	1.72	1.24	9	5.86	4.50	8	7.00	1.50	1	8.60	.	10	8.63	2.57
41	5	4.12	3.00	1	3.15	.	13	4.79	3.16	4	7.02	5.11	.	.	.	8	4.07	3.47
42	8	5.11	1.64	1	2.41	.	10	3.06	1.64	8	4.62	3.27	.	.	.	8	3.47	0.98
Sum/Mean	37	3.71		12	1.98		178	2.90		32	4.55		3	4.44		174	3.58	

U.S. Study Phase 2 PVT results

**PVT Table 3: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Median Response Time**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	236.00	.	1	247.50	.	17	234.88	7.58	.	.	.	.	.	.	16	229.53	6.97
32	2	253.50	1.41	1	276.00	.	15	257.73	15.76	2	283.25	11.67	.	.	.	18	277.92	18.50
33	2	257.50	7.78	1	253.00	.	16	247.50	12.01	1	248.50	.	.	.	.	19	241.97	9.71
34	.	.	.	1	227.00	.	15	223.47	11.74	.	.	.	.	.	.	17	270.09	34.16
35	2	290.25	33.59	.	.	.	18	256.33	19.11	.	.	.	.	.	.	17	298.79	17.68
36	1	320.00	.	.	.	.	18	252.64	23.22	.	.	.	.	.	.	18	262.25	24.92
37	.	.	.	.	.	.	20	227.83	12.64	.	.	.	1	233.50	.	17	232.82	14.01
38	1	272.00	.	.	.	.	18	252.36	26.74	.	.	.	.	.	.	18	256.89	17.80
39	8	257.19	12.01	3	214.67	2.31	9	239.39	21.20	9	266.06	20.54	1	209.00	.	8	230.19	10.16
40	7	262.43	16.43	3	218.33	1.04	9	271.39	59.31	8	285.88	21.03	1	327.00	.	10	318.50	33.31
41	5	236.00	34.15	1	231.00	.	13	255.85	50.51	4	315.00	158.47	.	.	.	8	247.38	51.06
42	8	246.50	29.46	1	202.00	.	10	204.00	11.12	8	257.94	40.41	.	.	.	8	223.19	18.40
Sum/Mean	37	263.14		12	233.69		178	243.61		32	276.10		3	256.50		174	257.46	

U.S. Study Phase 2 PVT results

**PVT Table 4: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Mean 10% Fastest Response Times**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	199.20	.	1	208.90	.	17	198.46	3.79	.	.	.	.	.	.	16	197.08	5.92
32	2	199.45	9.26	1	209.56	.	15	198.82	10.95	2	211.37	5.61	.	.	.	18	211.15	10.75
33	2	215.34	3.92	1	214.50	.	16	202.91	9.92	1	208.60	.	.	.	.	19	198.74	7.51
34	.	.	.	1	173.33	.	15	182.47	7.01	.	.	.	.	.	.	17	201.25	14.56
35	2	232.78	16.66	.	.	.	18	212.54	13.66	.	.	.	.	.	.	17	229.71	14.38
36	1	205.33	.	.	.	.	18	198.64	9.44	.	.	.	.	.	.	18	205.03	12.64
37	.	.	.	.	.	.	20	183.58	7.57	.	.	.	1	181.90	.	17	183.38	5.91
38	1	215.80	.	.	.	.	18	191.60	14.94	.	.	.	.	.	.	18	197.11	12.54
39	8	198.30	8.45	3	175.90	0.75	9	186.68	14.75	9	202.97	13.55	1	169.30	.	8	186.55	5.76
40	7	192.33	6.88	3	179.39	5.88	9	191.97	19.04	8	200.58	9.61	1	203.80	.	10	197.27	16.02
41	5	172.17	14.77	1	153.60	.	13	170.88	13.11	4	170.33	12.40	.	.	.	8	166.83	11.69
42	8	185.81	14.13	1	162.20	.	10	164.06	7.12	8	183.59	22.25	.	.	.	8	160.10	8.59
Sum/Mean	37	201.65		12	184.67		178	190.22		32	196.24		3	185.00		174	194.52	

U.S. Study Phase 2 PVT results

**PVT Table 5: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Mean 10% Slowest of Reciprocal Response Times**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	3.04	.	1	2.67	.	17	3.14	0.29	.	.	.	.	.	.	16	3.33	0.23
32	2	2.38	0.15	1	2.20	.	15	2.36	0.44	2	1.78	0.35	.	.	.	18	1.97	0.36
33	2	2.42	0.12	1	2.72	.	16	2.62	0.20	1	2.66	.	.	.	.	19	2.80	0.27
34	.	.	.	1	3.00	.	15	3.03	0.53	.	.	.	.	.	.	17	1.73	0.64
35	2	2.54	0.74	.	.	.	18	2.91	0.32	.	.	.	.	.	.	17	1.88	0.67
36	1	1.72	.	.	.	.	18	2.27	0.48	.	.	.	.	.	.	18	2.22	0.48
37	.	.	.	.	.	.	20	2.90	0.35	.	.	.	1	2.54	.	17	2.62	0.27
38	1	2.16	.	.	.	.	18	2.15	0.60	.	.	.	.	.	.	18	2.19	0.48
39	8	2.50	0.47	3	3.23	0.14	9	2.74	0.80	9	2.34	0.54	1	3.32	.	8	3.11	0.15
40	7	1.34	0.71	3	3.04	0.43	9	1.59	1.35	8	0.58	0.38	1	0.76	.	10	1.11	0.38
41	5	2.42	1.15	1	2.74	.	13	2.07	1.05	4	1.64	1.11	.	.	.	8	2.30	1.06
42	8	1.91	0.43	1	3.45	.	10	2.74	0.68	8	1.94	0.63	.	.	.	8	2.27	0.22
Sum/Mean	37	2.24		12	2.88		178	2.54		32	1.82		3	2.21		174	2.29	

U.S. Study Phase 2 PVT results

**PVT Table 6: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Total Response Errors**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	4.00	.	1	0.00	.	17	0.88	1.22	.	.	.	.	.	.	16	0.50	0.63
32	2	2.50	2.12	1	0.00	.	15	2.93	2.55	2	5.00	1.41	.	.	.	18	4.89	3.31
33	2	1.00	0.00	1	1.00	.	16	1.38	1.02	1	2.00	.	.	.	.	19	1.32	0.89
34	.	.	.	1	1.00	.	15	1.73	4.83	.	.	.	.	.	.	17	2.35	2.21
35	2	0.00	0.00	.	.	.	18	0.78	1.00	.	.	.	.	.	.	17	1.35	1.41
36	1	3.00	.	.	.	.	18	2.83	2.18	.	.	.	.	.	.	18	2.78	1.56
37	.	.	.	.	.	.	20	0.70	0.86	.	.	.	1	0.00	.	17	1.18	1.38
38	1	1.00	.	.	.	.	18	1.50	2.04	.	.	.	.	.	.	18	2.00	2.00
39	8	4.38	2.39	3	6.33	0.58	9	5.67	1.94	9	4.33	2.06	1	3.00	.	8	2.25	1.91
40	7	4.00	2.08	3	2.00	1.00	9	4.44	2.35	8	4.00	1.85	1	4.00	.	10	3.00	1.25
41	5	19.20	19.73	1	16.00	.	13	11.46	6.24	4	19.75	10.18	.	.	.	8	15.25	4.40
42	8	8.25	5.15	1	20.00	.	10	16.10	9.00	8	16.25	11.20	.	.	.	8	26.88	10.89
Sum/Mean	37	4.73		12	5.79		178	4.20		32	8.56		3	2.33		174	5.31	

U.S. Study Phase 2 PVT results

**PVT Table 7: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: PVT Slope of the Reciprocal Response Time Curve**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	-0.021	.	1	0.041	.	17	-0.025	0.034	.	.	.	.	.	.	16	0.004	0.025
32	2	-0.003	0.069	1	-0.080	.	15	-0.041	0.053	2	0.000	0.007	.	.	.	18	-0.017	0.037
33	2	-0.005	0.008	1	-0.024	.	16	-0.031	0.033	1	0.025	.	.	.	.	19	-0.008	0.045
34	.	.	.	1	-0.148	.	15	-0.029	0.042	.	.	.	.	.	.	17	-0.058	0.050
35	2	-0.026	0.015	.	.	.	18	-0.022	0.038	.	.	.	.	.	.	17	-0.035	0.088
36	1	-0.031	.	.	.	.	18	-0.007	0.056	.	.	.	.	.	.	18	-0.024	0.058
37	.	.	.	.	.	.	20	-0.028	0.043	.	.	.	1	-0.101	.	17	-0.050	0.046
38	1	-0.044	.	.	.	.	18	-0.088	0.057	.	.	.	.	.	.	18	-0.043	0.052
39	8	-0.066	0.033	3	0.006	0.040	9	-0.008	0.050	9	-0.068	0.032	1	0.027	.	8	-0.009	0.039
40	7	-0.050	0.089	3	-0.036	0.020	9	-0.092	0.127	8	-0.109	0.027	1	-0.057	.	10	-0.104	0.034
41	5	-0.046	0.084	1	-0.106	.	13	-0.116	0.087	4	-0.070	0.054	.	.	.	8	-0.058	0.064
42	8	-0.007	0.085	1	-0.054	.	10	-0.001	0.068	8	-0.057	0.079	.	.	.	8	0.051	0.097
Sum/Mean	37	-0.030		12	-0.050		178	-0.041		32	-0.047		3	-0.044		174	-0.029	

U.S. Study Phase 2 PVT results

**PVT Table 8: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Grand Mean Response Time**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	243.85	.	1	260.41	.	17	242.81	9.85	.	.	.	.	.	.	16	236.78	9.36
32	2	273.58	4.58	1	293.09	.	15	279.59	26.75	2	313.42	3.32	.	.	.	18	314.11	39.50
33	2	274.22	7.47	1	263.12	.	16	261.32	13.85	1	263.05	.	.	.	.	19	254.47	12.24
34	.	.	.	1	233.92	.	15	235.80	16.98	.	.	.	.	.	.	17	330.29	78.23
35	2	302.53	50.39	.	.	.	18	264.95	21.19	.	.	.	.	.	.	17	348.40	80.56
36	1	339.02	.	.	.	.	18	277.39	33.14	.	.	.	.	.	.	18	288.39	32.41
37	.	.	.	.	.	.	20	241.38	15.70	.	.	.	1	248.25	.	17	250.35	15.98
38	1	304.60	.	.	.	.	18	304.26	76.00	.	.	.	.	.	.	18	285.94	33.56
39	8	275.33	24.43	3	224.59	1.60	9	261.57	46.18	9	290.87	35.71	1	218.88	.	8	239.49	9.78
40	7	373.28	106.78	3	232.99	10.37	9	501.06	352.05	8	380.87	48.02	1	517.73	.	10	603.74	261.95
41	5	280.78	92.22	1	239.74	.	13	305.78	93.90	4	378.67	203.25	.	.	.	8	290.43	89.38
42	8	287.06	43.90	1	209.39	.	10	227.68	27.42	8	300.84	62.39	.	.	.	8	250.58	20.68
Sum/Mean	37	295.42		12	244.66		178	283.63		32	321.29		3	328.29		174	307.75	

U.S. Study Phase 2 PVT results

**PVT Table 9: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Standard Deviation of Response Times**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	46.22	.	1	49.09	.	17	40.66	15.47	.	.	.	.	.	.	16	37.19	22.99
32	2	89.27	40.44	1	86.38	.	15	92.71	51.53	2	130.21	53.99	.	.	.	18	163.80	122.87
33	2	59.94	3.73	1	48.18	.	16	62.25	22.16	1	49.14	.	.	.	.	19	51.08	14.50
34	.	.	.	1	67.58	.	15	58.16	31.53	.	.	.	.	.	.	17	206.68	152.75
35	2	93.92	89.53	.	.	.	18	48.91	24.54	.	.	.	.	.	.	17	238.13	415.66
36	1	122.11	.	.	.	.	18	94.50	49.05	.	.	.	.	.	.	18	96.03	35.19
37	.	.	.	.	.	.	20	66.83	38.94	.	.	.	1	76.38	.	17	88.48	38.22
38	1	184.82	.	.	.	.	18	276.57	454.24	.	.	.	.	.	.	18	125.39	80.23
39	8	91.20	67.17	3	40.06	2.76	9	91.85	82.44	9	128.82	108.00	1	39.04	.	8	40.48	2.85
40	7	392.03	302.11	3	61.13	36.75	9	559.90	631.35	8	314.54	100.23	1	691.82	.	10	711.32	426.67
41	5	153.16	138.22	1	80.65	.	13	188.46	135.47	4	243.06	169.53	.	.	.	8	187.31	168.93
42	8	117.32	38.32	1	47.96	.	10	80.51	35.34	8	128.52	53.20	.	.	.	8	105.92	28.38
Sum/Mean	37	135.00		12	60.13		178	138.44		32	165.71		3	269.08		174	170.98	

U.S. Study Phase 2 PVT results

**PVT Table 11: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: No R for 30s**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	0.00	.	1	0.00	.	17	0.00	0.00	.	.	.	.	.	.	16	0.00	0.00
32	2	0.00	0.00	1	0.00	.	15	0.00	0.00	2	0.00	0.00	.	.	.	18	0.00	0.00
33	2	0.00	0.00	1	0.00	.	16	0.00	0.00	1	0.00	.	.	.	.	19	0.00	0.00
34	.	.	.	1	0.00	.	15	0.00	0.00	.	.	.	.	.	.	17	0.00	0.00
35	2	0.00	0.00	.	.	.	18	0.00	0.00	.	.	.	.	.	.	17	0.00	0.00
36	1	0.00	.	.	.	.	18	0.00	0.00	.	.	.	.	.	.	18	0.00	0.00
37	.	.	.	.	.	.	20	0.00	0.00	.	.	.	1	0.00	.	17	0.00	0.00
38	1	0.00	.	.	.	.	18	0.00	0.00	.	.	.	.	.	.	18	0.00	0.00
39	8	0.00	0.00	3	0.00	0.00	9	0.00	0.00	9	0.00	0.00	1	0.00	.	8	0.00	0.00
40	7	0.00	0.00	3	0.00	0.00	9	0.00	0.00	8	0.00	0.00	1	0.00	.	10	0.00	0.00
41	5	0.00	0.00	1	0.00	.	13	0.00	0.00	4	0.00	0.00	.	.	.	8	0.00	0.00
42	8	0.00	0.00	1	0.00	.	10	0.00	0.00	8	0.00	0.00	.	.	.	8	0.00	0.00
Sum/Mean	37	0.00		12	0.00		178	0.00		32	0.00		3	0.00		174	0.00	

U.S. Study Phase 2 PVT results

**PVT Table 10: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Distribution Asymmetry**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	0.170	.	1	0.263	.	17	0.190	0.085	.	.	.	.	.	.	16	0.197	0.060
32	2	0.234	0.039	1	0.198	.	15	0.223	0.059	2	0.228	0.021	.	.	.	18	0.230	0.056
33	2	0.280	0.022	1	0.210	.	16	0.218	0.046	1	0.296	.	.	.	.	19	0.244	0.054
34	.	.	.	1	0.102	.	15	0.197	0.070	.	.	.	.	.	.	17	0.278	0.059
35	2	0.084	0.100	.	.	.	18	0.172	0.088	.	.	.	.	.	.	17	0.202	0.072
36	1	0.156	.	.	.	.	18	0.260	0.042	.	.	.	.	.	.	18	0.274	0.059
37	.	.	.	.	.	.	20	0.198	0.063	.	.	.	1	0.193	.	17	0.199	0.048
38	1	0.176	.	.	.	.	18	0.221	0.090	.	.	.	.	.	.	18	0.225	0.047
39	8	0.179	0.066	3	0.247	0.062	9	0.187	0.102	9	0.183	0.047	1	0.253	.	8	0.228	0.079
40	7	0.272	0.042	3	0.236	0.012	9	0.328	0.105	8	0.380	0.106	1	0.413	.	10	0.277	0.027
41	5	0.212	0.119	1	0.108	.	13	0.216	0.102	4	0.236	0.066	.	.	.	8	0.207	0.060
42	8	0.336	0.065	1	0.154	.	10	0.266	0.082	8	0.314	0.085	.	.	.	8	0.268	0.051
Sum/Mean	37	0.210		12	0.190		178	0.223		32	0.273		3	0.286		174	0.236	

U.S. Study Phase 2 PVT results

**PVT Table 12: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Post-PVT Sleepiness Rating (VAS)**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	2.00	.	1	1.00	.	17	2.24	2.02	.	.	.	.	.	.	16	1.31	0.48
32	2	1.00	1.41	1	0.00	.	15	0.93	2.49	2	7.50	0.71	.	.	.	18	8.06	3.08
33	2	0.00	0.00	1	1.00	.	16	0.06	0.25	1	8.00	.	.	.	.	19	4.53	3.08
34	.	.	.	1	1.00	.	15	6.47	1.51	.	.	.	.	.	.	17	7.71	1.26
35	2	0.00	0.00	.	.	.	18	0.11	0.32	.	.	.	.	.	.	17	7.00	4.37
36	1	10.00	.	.	.	.	18	7.00	2.47	.	.	.	.	.	.	18	7.33	2.06
37	.	.	.	.	.	.	20	7.25	1.02	.	.	.	1	8.00	.	17	7.47	1.01
38	1	7.00	.	.	.	.	18	7.72	1.60	.	.	.	.	.	.	18	6.39	3.65
39	8	0.75	2.12	3	0.00	0.00	9	0.00	0.00	9	0.78	2.33	1	6.00	.	8	0.00	0.00
40	7	3.29	4.27	3	0.67	1.15	9	2.11	3.18	8	6.25	4.10	1	10.00	.	10	6.20	4.57
41	5	1.20	2.68	1	0.00	.	13	1.38	2.63	4	0.00	0.00	.	.	.	8	0.88	2.47
42	8	8.88	3.18	1	1.00	.	10	3.30	3.86	8	8.88	3.18	.	.	.	8	5.00	4.47
Sum/Mean	37	3.41		12	0.58		178	3.21		32	5.23		3	8.00		174	5.16	

U.S. Study Phase 2 PVT results

**PVT Table 13: Descriptive Statistics by Driver, Time of Day, and Condition
For PVT Response Variables: Pre-PVT Sleepiness Rating (VAS)**

Driver	No Feedback									Feedback								
	Day			Evening			Night			Day			Evening			Night		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
31	1	2.00	.	1	1.00	.	17	2.06	1.98	.	.	.	.	.	.	16	1.25	0.45
32	2	1.00	1.41	1	0.00	.	15	0.80	2.11	2	5.00	2.83	.	.	.	18	7.11	2.83
33	2	0.00	0.00	1	1.00	.	16	0.06	0.25	1	7.00	.	.	.	.	19	4.53	2.97
34	.	.	.	1	2.00	.	15	5.93	1.79	.	.	.	.	.	.	17	6.88	1.41
35	2	0.00	0.00	.	.	.	18	0.11	0.32	.	.	.	.	.	.	17	6.71	4.61
36	1	10.00	.	.	.	.	18	6.56	2.73	.	.	.	.	.	.	18	6.78	1.73
37	.	.	.	.	.	.	20	6.80	1.54	.	.	.	1	6.00	.	17	7.41	0.94
38	1	8.00	.	.	.	.	18	7.39	1.14	.	.	.	.	.	.	18	6.17	3.47
39	8	1.13	3.18	3	0.00	0.00	9	0.00	0.00	9	0.78	2.33	1	7.00	.	8	0.00	0.00
40	7	3.29	4.19	3	1.00	1.73	9	2.00	3.00	8	6.63	4.17	1	8.00	.	10	6.40	4.45
41	5	2.00	4.47	1	0.00	.	13	1.85	3.60	4	0.00	0.00	.	.	.	8	1.25	3.54
42	8	8.88	3.18	1	1.00	.	10	3.40	3.81	8	6.63	4.66	.	.	.	8	4.38	4.66
Sum/Mean	37	3.63		12	0.75		178	3.08		32	4.34		3	7.00		174	4.90	