

**Appendix Table A1.** Individual data (Contrast thresholds and spreads of the psychometric function) for the younger and older adult groups for both the noise backgrounds

Participant ID (Y –Younger O –Older)	Age (years)	Noise 0.05								Noise 0.20							
		Contrast thresholds [log <sub>10</sub> Contrast (%)]				Spreads [log <sub>10</sub> Contrast (%)]				Contrast thresholds [log <sub>10</sub> Contrast (%)]				Spreads [log <sub>10</sub> Contrast (%)]			
		Fovea	2 deg	4 deg	6 deg	Fovea	2 deg	4 deg	6 deg	Fovea	2 deg	4 deg	6 deg	Fovea	2 deg	4 deg	6 deg
Y01	26	-1.11	-0.99	-0.69	-0.40	-1.75	-0.86	-1.09	-0.69	-1.03	-0.88	-0.60	-0.44	-1.49	-1.08	-1.37	-0.79
Y02	27	-1.37	-1.07	-0.94	-0.74	-1.36	-0.98	-1.03	-0.79	-1.21	-0.92	-0.80	-0.64	-0.92	-0.69	-1.13	-0.89
Y03	33	-1.30	-1.01	-0.93	-0.74	-1.38	-0.85	-1.31	-0.75	-1.22	-1.10	-0.97	-0.80	-1.57	-1.00	-1.03	-1.00
Y04	25	-1.04	-0.78	-0.71	-0.65	-0.95	-0.65	-0.66	-0.74	-1.01	-0.90	-0.81	-0.65	-1.01	-0.86	-0.65	-0.93
Y05	25	-1.19	-0.84	-0.77	-0.49	-1.33	-0.87	-0.81	-0.80	-1.25	-0.89	-0.72	-0.48	-1.46	-1.00	-0.91	-0.91
Y06	31	-1.31	-0.94	-0.77	-0.52	-1.70	-1.32	-1.52	-0.87	-1.18	-1.03	-0.73	-0.57	-1.32	-1.10	-1.19	-0.74
Y07	23	-1.45	-1.10	-0.87	-0.55	-1.62	-1.29	-1.17	-0.92	-1.43	-1.06	-0.87	-0.47	-1.51	-0.86	-0.94	-0.80
Y08	28	-1.18	-0.92	-0.76	-0.52	-1.22	-0.73	-0.76	-0.85	-1.29	-1.00	-0.64	-0.43	-1.42	-0.94	-0.98	-0.53
Y09	22	-1.22	-0.83	-0.69	-0.47	-1.28	-0.79	-0.95	-0.83	-1.22	-0.89	-0.72	-0.49	-1.42	-0.86	-0.85	-0.85
Y10	21	-1.00	-0.79	-0.62	-0.36	-1.14	-0.67	-0.60	-0.65	-0.95	-0.75	-0.53	-0.36	-1.15	-0.66	-0.66	-0.65
Y11	22	-1.43	-1.11	-0.92	-0.60	-1.38	-1.19	-1.18	-0.80	-1.40	-1.00	-0.88	-0.58	-1.42	-1.06	-1.14	-0.70
Y12	24	-1.18	-0.87	-0.63	-0.35	-1.68	-1.20	-0.72	-0.50	-0.99	-0.79	-0.60	-0.35	-1.10	-0.91	-0.76	-0.57
Y13	25	-1.34	-1.02	-0.63	-0.34	-1.72	-1.52	-0.87	-0.95	-1.37	-0.94	-0.60	-0.29	-1.88	-1.70	-0.90	-0.79
Y14	25	-1.24	-0.82	-0.63	-0.47	-0.99	-0.63	-0.68	-0.67	-1.36	-1.00	-0.87	-0.56	-0.99	-1.01	-0.63	-0.68
Y15	35	-1.28	-1.07	-0.79	-0.57	-1.42	-1.22	-1.27	-0.97	-1.25	-1.00	-0.83	-0.64	-1.32	-1.19	-1.05	-0.65
Y16	25	-1.42	-1.11	-0.93	-0.64	-1.47	-1.06	-1.25	-0.89	-1.49	-1.24	-1.04	-0.66	-1.95	-1.27	-1.04	-1.07
Y17	24	-1.42	-1.01	-0.91	-0.65	-1.51	-1.18	-1.07	-0.97	-1.53	-1.09	-0.96	-0.67	-1.80	-1.39	-1.31	-0.94
Y18	33	-1.01	-0.83	-0.49	-0.39	-1.05	-0.68	-0.78	-0.64	-0.93	-0.71	-0.53	-0.35	-0.92	-0.60	-0.78	-0.58
Y19	20	-1.21	-0.84	-0.56	-0.40	-1.13	-0.83	-0.60	-0.57	-1.23	-0.84	-0.65	-0.48	-1.33	-0.95	-0.97	-1.05
Y20	26	-0.95	-0.94	-0.46	-0.27	-1.13	-0.75	-0.55	-0.71	-0.95	-0.94	-0.62	-0.31	-1.08	-0.86	-0.79	-0.61

O01	78	-1.13	-0.84	-0.59	-0.49	-0.99	-0.66	-0.81	-0.78	-0.90	-0.76	-0.64	-0.47	-0.92	-0.67	-0.62	-0.80
O02	73	-0.79	-0.76	-0.43	-0.36	-0.65	-0.81	-0.76	-0.68	-0.73	-0.74	-0.54	-0.45	-0.80	-1.26	-0.84	-0.93
O03	79	-0.81	-0.79	-0.46	-0.27	-0.49	-1.18	-0.87	-0.66	-0.70	-0.69	-0.47	-0.35	-0.66	-1.17	-0.66	-0.50
O04	70	-0.79	-0.63	-0.48	-0.39	-0.65	-0.72	-1.17	-0.60	-0.71	-0.62	-0.49	-0.28	-0.63	-0.62	-1.03	-0.98
O05	65	-0.74	-0.84	-0.65	-0.47	-0.99	-0.94	-1.06	-0.56	-0.73	-0.91	-0.71	-0.50	-0.73	-0.66	-0.79	-0.98
O06	66	-0.86	-0.85	-0.57	-0.38	-0.53	-0.69	-0.67	-0.67	-0.80	-0.83	-0.60	-0.32	-0.59	-0.67	-0.64	-0.79
O07	68	-0.77	-0.88	-0.59	-0.37	-0.63	-0.67	-0.79	-0.56	-0.57	-0.69	-0.49	-0.21	-0.84	-0.74	-0.65	-0.59
O08	61	-0.73	-0.91	-0.68	-0.33	-0.57	-0.53	-0.85	-0.60	-0.63	-0.77	-0.72	-0.41	-0.58	-0.77	-0.66	-0.54
O09	63	-0.77	-0.73	-0.59	-0.46	-0.84	-0.64	-0.60	-0.69	-0.79	-0.82	-0.62	-0.49	-0.75	-0.70	-0.91	-1.12
O10	68	-0.80	-0.83	-0.67	-0.47	-1.02	-0.71	-0.71	-0.61	-0.66	-0.85	-0.68	-0.44	-0.78	-0.66	-1.35	-1.10
O11	62	-0.59	-0.77	-0.72	-0.34	-0.82	-1.35	-0.65	-0.68	-0.65	-0.72	-0.55	-0.35	-0.69	-0.67	-0.77	-0.52
O12	62	-0.88	-0.77	-0.61	-0.42	-0.89	-1.09	-0.62	-0.85	-0.89	-0.77	-0.60	-0.51	-0.83	-1.32	-0.69	-0.70
O13	73	-0.49	-0.62	-0.35	-0.28	-0.61	-0.68	-0.69	-0.93	-0.47	-0.62	-0.56	-0.39	-0.64	-0.72	-0.65	-0.63
O14	75	-0.47	-0.58	-0.35	-0.23	-0.74	-0.50	-0.63	-0.63	-0.32	-0.64	-0.38	-0.19	-0.98	-0.59	-0.61	-0.75
O15	78	-1.15	-0.83	-0.64	-0.33	-1.32	-0.74	-0.85	-0.99	-1.04	-0.73	-0.52	-0.36	-1.45	-0.81	-1.13	-1.07
O16	64	-1.07	-0.76	-0.68	-0.54	-1.15	-0.88	-0.89	-0.69	-1.02	-0.77	-0.52	-0.43	-0.93	-0.62	-0.62	-1.11
O17	78	-0.91	-0.72	-0.57	-0.43	-0.93	-0.62	-0.82	-0.72	-0.93	-0.76	-0.59	-0.45	-1.11	-1.16	-0.97	-0.73
O18	62	-0.99	-0.78	-0.65	-0.52	-0.96	-0.80	-0.64	-0.82	-1.08	-0.84	-0.69	-0.50	-0.99	-0.77	-0.79	-0.89
O19	73	-0.68	-0.82	-0.51	-0.29	-1.06	-1.23	-0.82	-0.67	-0.71	-0.91	-0.52	-0.33	-0.75	-1.17	-0.74	-0.90
O20	72	-0.88	-0.94	-0.66	-0.47	-0.92	-0.92	-0.88	-0.67	-0.85	-0.95	-0.69	-0.47	-0.93	-0.82	-0.78	-0.71

**Appendix Table A2.** Individual data (Contrast thresholds and spreads of the psychometric function) for a subset of the younger adult group measured on a uniform background (n = 10).

Participant ID	No-noise condition							
	Contrast thresholds [log <sub>10</sub> Contrast (%)]				Spreads [log <sub>10</sub> Contrast (%)]			
	Fovea	2 deg	4 deg	6 deg	Fovea	2 deg	4 deg	6 deg
Y02	-1.55	-1.31	-0.96	-0.81	-1.87	-1.53	-1.12	-1.34
Y04	-1.37	-1.20	-0.88	-0.77	-1.82	-1.43	-1.20	-1.09
Y06	-1.37	-1.22	-0.80	-0.61	-1.64	-1.32	-1.06	-0.71
Y07	-1.61	-1.26	-0.99	-0.64	-1.71	-1.47	-1.26	-0.89
Y11	-1.70	-1.28	-1.11	-0.81	-1.68	-1.33	-1.04	-0.93
Y13	-1.39	-1.16	-0.78	-0.54	-1.67	-1.84	-0.94	-0.66
Y15	-1.65	-1.27	-0.96	-0.85	-1.80	-1.52	-1.09	-1.16
Y16	-1.68	-1.33	-1.19	-0.83	-2.09	-1.50	-1.21	-1.21
Y17	-1.62	-1.35	-0.99	-0.87	-1.77	-1.67	-1.09	-0.95
Y18	-1.27	-1.05	-0.85	-0.55	-1.32	-1.66	-0.87	-0.64