

Table 1 (Online supplemental material)

Reference	Species	Area	A	B	C	Method	Notes
Present study	Human	LGN	46.6	0.52	2.43	fMRI	
A	Macaque	LGN	21.5	2.66	2.29	Electrophysiology	ab
B	Macaque	LGN	10800 cells	1.31	1.90	Electrophysiology	b
C	Human	V1	853	3.67	2	fMRI	cd
D	Human	V1	237	0.83	2	fMRI	cd
E	Human	V1	593	0.33	2	VEP	cd
F	Human	V1	38800	4.31	3.26	fMRI	def
G	Human	V1	387	0.39	2.62	fMRI	cg
H	Human	V1	287	1.24	2	Phosphenes	cd
I	Human	V1	9220	5.42	2.90	fMRI	def
J	Human	V1	223	1.75	2	Phosphenes	cd
K	Macaque	V1	245	1.74	2	Deoxyglucose	cd
L	Macaque	V1	140	0.78	2.2	Electrophysiology	
M	Macaque	V1	149	0.94	2	Deoxyglucose	cd
N	Macaque	V1	246	1.71	2	Electrophysiology	cd

Table 1. *Comparison of the eccentricity magnification factor in the human and macaque*

LGN and V1. Fit parameters *A*, *B*, and *C* are listed for each study for the volumetric

(LGN) or areal (V1) magnification factors $M(r) = A(r + B)^{-C}$, where *r* is the eccentricity.

Notes:

- a. We eliminated a scale factor that discounted interlaminar space.
- b. These two analyses were derived from the same electrophysiological data set.
- c. Parameter *C* was not free to vary in the fit.
- d. Linear magnification was reported; its square is listed to represent areal magnification.
- e. The original study did not report a function of this form. The data were reported in terms of linear distance from the 10° eccentricity point (d_{10}) vs. eccentricity (*r*).

To obtain the parameters, we fit the function

$$d_{10}(r) = \int_{10^\circ - r_0}^{r - r_0} A(x + B)^{-C} dx = \frac{A}{1-C} \left[(r - r_0 + B)^{1-C} - (10^\circ - r_0 + B)^{1-C} \right].$$

- f. These two studies reported separate measurements on the same two subjects.
- g. The reported B parameter appeared anomalous, and we refit the data to

$$d(r) = \int_{0^\circ}^{r - r_0} A(x + B)^{-C} dx = \frac{A}{1-C} \left[(r - r_0 + B)^{1-C} - B^{1-C} \right].$$

References:

- A. Malpeli and Baker, 1975, Malpeli et al., 1996
- B. Malpeli and Baker, 1975, Connolly and Van Essen, 1984, Schein and de Monasterio, 1987
- C. Dougherty et al., 2003
- D. Duncan and Boynton, 2003
- E. Slotnick et al., 2001
- F. Engel et al., 1997
- G. Sereno et al., 1995
- H. Grüsser, 1995
- I. Engel et al., 1994
- J. Brindley and Lewin, 1968a, Cowey and Rolls, 1974, Grüsser, 1995
- K. Tootell et al., 1988, Wässle et al., 1990
- L. Van Essen et al., 1984
- M. Tootell et al., 1982
- N. Hubel and Wiesel, 1974, Hubel and Freeman, 1977