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## Epic Rhythm: Metrical Shapes in Greek Hexameter Stephen A. Sansom and David Fifield

APPENDIX: Expectancy of Metrical Shapes in Epic Corpus (x, %, z)

Shape	1	2	2.5	3	4	4.5	5	6	6.5	7	8	8.5	9	10	10.5	11	12	Total $(\Sigma x)$
	16 (0.1%) -1.726	2,078 (14.4%) +0.249	676 (4.7%) -1.094	3,359 (23.3%) +1.476	2,005 (13.9%) +0.179	217 (1.5%) -1.534	498 (3.5%) -1.265	248 (1.7%) -1.504	366 (2.5%) -1.391	1,174 (8.2%) -0.617	1,768 (12.3%) -0.048	23 (0.2%) -1.720	409 (2.8%) -1.350	805 (5.6%) -0.971	418 (2.9%) -1.341	335 (2.3%) -1.421	1 (0.0%) -1.741	14,396
_	7,616 (43.5%) +1.100	524 (3.0%) -1.298	×	3,092 (17.7%) -0.430	1,031 (5.9%) -1.126	×	220 (1.3%) -1.401	1,178 (6.7%) -1.077	×	243 (1.4%) -1.393	503 (2.9%) -1.305	×	2,232 (12.8%) -0.720	6 (0.0%) -1.473	×	15 (0.1%) -1.470	838 (4.8%) -1.192	17,498
J	×	468 (7.6%) -0.975	1,113 (18.2%) -0.224	×	600 (9.8%) -0.821	143 (2.3%) -1.353	×	665 (10.9%) -0.745	2,344 (38.3%) +1.210	×	121 (2.0%) -1.379	44 (0.7%) -1.468	×	343 (5.6%) -1.120	279 (4.6%) -1.195	×	×	6,120
	8,602 (21.3%) -0.731	1,481 (3.7%) -1.529	×	735 (1.8%) -1.612	2,491 (6.2%) -1.415	×	37 (0.1%) -1.690	3,007 (7.5%) -1.358	×	362 (0.9%) -1.654	788 (2.0%) -1.606	×	51 (0.1%) -1.689	6 (0.0%) -1.694	×	22,735 (56.4%) +0.852	×	40,295
_ <b>u</b>	14,046 (35.0%) +0.786	×	×	3,923 (9.8%) -2.441	×	×	9,183 (22.9%) -0.764	×	×	20 (0.0%) -3.684	×	×	12,946 (32.3%) +0.435	×	×	×	×	40,118
<b>v</b> —	×	×	5,775 (24.8%) -1.186	×	×	1,828 (7.9%) -1.947	×	×	15,524 (66.7%) +0.692	×	×	58 (0.2%) -2.288	×	×	92 (0.4%) -2.281	×	×	23,277
o o	×	1,811 (8.9%) -1.294	×	×	3,932 (19.3%) -0.570	×	×	2,732 (13.4%) -0.979	×	×	8,877 (43.6%) +1.118	×	×	3,016 (14.8%) -0.883	×	×	×	20,368
	8,580 (65.0%) +0.705	50 (0.4%) -2.240	×	3,491 (26.5%) -1.052	19 (0.1%) -2.251	×	58 (0.4%) -2.237	116 (0.9%) -2.217	×	255 (1.9%) -2.169	8 (0.1%) -2.254	×	22 (0.2%) -2.250	594 (4.5%) -2.052	×	×	×	13,193
<b>U</b>	×	282 (2.1%) -2.818	×	×	9,158 (67.1%) +0.682	×	×	32 (0.2%) -2.916	×	×	4,173 (30.6%) -1.284	×	×	×	×	×	×	13,645

= 0 0	16,829 (46.1%) +0.781	×	×	2,432 (6.7%) -2.212	×	×	10 (0.0%) -2.715	×	×	4,178 (11.4%) -1.849	×	×	13,068 (35.8%) -0.001	×	×	×	×	36,517
<b>-</b> -	×	×	229 (0.8%) -4.453	×	×	16 (0.1%) -4.487	×	×	1,318 (4.3%) -4.275	×	×	0 (0.0%) -4.490	×	×	28,950 (94.9%) +0.232	×	×	30,513
<b>u</b> – <b>u</b>	×	×	514 (8.4%) -2.723	×	×	5,419 (88.6%) +0.358	×	×	78 (1.3%) -2.997	×	×	102 (1.7%) -2.982	×	×	×	×	×	6,113
<b>u</b> u =	×	1,695 (12.2%) -1.543	×	×	4,305 (30.9%) -0.254	×	×	6,650 (47.8%) +0.904	×	×	1,217 (8.7%) -1.779	×	×	59 (0.4%) -2.351	×	×	×	13,926
	189 (7.0%) -2.421	76 (2.8%) -2.569	×	7 (0.3%) -2.660	6 (0.2%) -2.661	×	$1 \ (0.0\%) \ -2.668$	91 (3.4%) -2.550	×	2 (0.1%) -2.667	3 (0.1%) -2.665	×	2,335 (86.2%) +0.401	×	×	×	×	2,710
	1,045 (18.3%) -1.688	×	×	4,366 (76.6%) +0.550	×	×	$0 \ (0.0\%) \ -2.392$	×	×	291 (5.1%) -2.196	×	×	×	×	×	×	×	5,702
0	×	38 (0.7%) -7.944	×	×	10 (0.2%) -8.026	×	×	2,991 (53.7%) +0.688	×	×	2,529 (45.4%) -0.663	×	×	×	×	×	×	5,568
_ • • -	13,575 (67.0%) +0.680	×	×	5,473 (27.0%) -1.171	×	×	113 $(0.6%)$ $-2.396$	×	×	516 (2.5%) -2.304	×	×	593 (2.9%) -2.286	×	×	×	×	20,270
<b>U</b> ———	×	×	2,002 (40.8%) -0.854	×	×	87 (1.8%) -4.626	×	×	2,816 (57.4%) +0.750	×	×	0 (0.0%) -4.798	×	×	×	×	×	4,905
0-00	×	×	324 (1.9%) -6.557	×	×	2 (0.0%) -6.690	×	×	16,554 (97.7%) +0.152	×	×	57 (0.3%) -6.667	×	×	×	×	×	16,937
<b>.</b>	×	61 (0.7%) -4.737	×	×	10 (0.1%) -4.767	×	×	311 (3.6%) -4.587	×	×	8 (0.1%) -4.768	×	×	8,320 (95.5%) +0.216	×	×	×	8,710
<b>0 0</b> = <b>0</b>	×	233 (1.4%) -2.675	×	×	12,442 (72.7%) +0.607	×	×	31 (0.2%) -2.730	×	×	4,407 (25.8%) -1.553	×	×	×	×	×	×	17,113
	56 (45.5%) +0.079	0 (0.0%) -4.349	×	5 (4.1%) -3.953	$0 \ (0.0\%) \ -4.349$	×	2 (1.6%) -4.191	$0 \ (0.0\%) \ -4.349$	×	0 (0.0%) -4.349	60 (48.8%) +0.395	×	×	×	×	×	×	123

o	×	37 (33.3%) -1.414	×	×	0 (0.0%) -3.536	×	×	74 (66.7%) +0.707	×	×	×	×	×	×	×	×	×	111
0	87 (74.4%) +0.583	×	×	6 (5.1%) -2.018	×	×	3 (2.6%) -2.115	×	×	21 (17.9%) -1.537	×	×	×	×	×	×	×	117
	×	110 (27.4%) -0.673	×	×	93 (23.1%) -1.025	×	×	191 (47.5%) +1.004	×	×	8 (2.0%) -2.785	×	×	×	×	×	×	402
_ 0 0	201 (2.3%) -6.469	×	×	1 (0.0%) -6.626	×	×	4 (0.0%) -6.623	×	×	0 (0.0%) -6.627	×	×	8,630 (97.7%) +0.154	×	×	×	×	8,836
-00-0	998 (14.8%) -1.820	×	×	5,313 (78.6%) +0.521	×	×	0 (0.0%) -2.361	×	×	449 (6.6%) -2.118	×	×	×	×	×	×	×	6,760
<b>0</b> ====	×	×	1 (3.7%) -5.099	×	×	0 (0.0%) -5.540	×	×	13 (48.1%) +0.196	×	×	13 (48.1%) +0.196	×	×	×	×	×	27
<b>0</b> — — <b>0</b>	×	×	1,733 (30.1%) -1.523	×	×	0 (0.0%) -3.175	×	×	4,019 (69.9%) +0.657	×	×	×	×	×	×	×	×	5,752
<b>u</b> – <b>u</b> u –	×	×	1,933 (32.2%) -1.270	×	×	100 (1.7%) -3.047	×	×	3,964 (66.1%) +0.698	×	×	2 (0.0%) -3.142	×	×	×	×	×	5,999
<b>.</b>	×	201 (61.5%) +0.756	×	×	28 (8.6%) -2.106	×	×	98 (30.0%) -0.948	×	×	0 (0.0%) -2.569	×	×	×	×	×	×	327
00-00	×	68 (0.9%) -4.095	×	×	7 (0.1%) -4.161	×	×	4,569 (61.2%) +0.761	×	×	2,823 (37.8%) -1.123	×	×	×	×	×	×	7,467
	30 (100.0%)	×	×	(0.0%)	×	×	0 (0.0%)	×	×	×	×	×	×	×	×	×	×	30
0	×	0 (0.0%) -4.924	×	×	1 (4.3%) -4.690	×	×	22 (95.7%) +0.213	×	×	×	×	×	×	×	×	×	23
	89 (92.7%) +0.280	×	×	6 (6.2%) -3.532	×	×	1 (1.0%) -3.762	×	×	0 (0.0%) -3.808	×	×	×	×	×	×	×	96

	×	(0.0%)	×	×	0 (0.0%)	×	×	(0.0%)	×	×	169 (100.0%)	×	×	×	×	×	×	169
00_0	×	24 (21.4%) -1.915	×	×	0 (0.0%) -2.829	×	×	88 (78.6%) +0.522	×	×	×	×	×	×	×	×	×	112
_ • • •	280 (95.9%) +0.207	×	×	9 (3.1%) -4.803	×	×	3 (1.0%) -4.913	×	×	0 (0.0%) -4.969	×	×	×	×	×	×	×	292
_ 0 0 - 0 0	165 (65.7%) +0.720	×	×	2 (0.8%) -2.049	×	×	39 (15.5%) -1.421	×	×	45 (17.9%) -1.319	×	×	×	×	×	×	×	251
<b></b>	×	×	(100.0%)	×	×	0 (0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	2
000	×	×	(0.0%)	×	×	0 (0.0%)	×	×	429 (100.0%)	×	×	×	×	×	×	×	×	429
0-00	×	×	0 (0.0%) -3.021	×	×	0 (0.0%) -3.021	×	×	1 (14.3%) -2.449	×	×	6 (85.7%) +0.408	×	×	×	×	×	7
0-00-0	×	×	880 (27.8%) -1.610	×	×	0 (0.0%) -3.012	×	×	2,280 (72.2%) +0.621	×	×	×	×	×	×	×	×	3,160
o o ————	×	(0.0%)		×	0 (0.0%)	×	×	(0.0%)	×	×	150 (100.0%)	×	×	×	×	×	×	150
o o ——— o	×	65 (41.9%) -1.177	×	×	0 (0.0%) -6.446	×	×	90 (58.1%) +0.850	×	×	×	×	×	×	×	×	×	155
0 0 <b>-</b> 0 0 -	×	340 (62.6%) +0.765	×	×	60 (11.0%) -1.438	×	×	106 (19.5%) -1.076	×	×	37 (6.8%) -1.619	×	×	×	×	×	×	543
 • • -	×	(100.0%)	×	×	(0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	×	1
	0 (0.0%)	×	×	0 (0.0%)	×	×	0 (0.0%)	×	×	(100.0%)	×	×	×	×	×	×	×	1

	21 (100.0%)	×	×	(0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	×	×	21
	×	0 (0.0%) -4.719	×	×	1 (4.8%) -4.472	×	×	20 (95.2%) +0.224	×	×	×	×	×	×	×	×	×	21
_ • •	(100.0%)	×	×	(0.0%)	×	×	0 (0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	2
_	189 (97.9%) +0.145	×	×	0 (0.0%) -7.026	×	×	4 (2.1%) -6.874	×	×	×	×	×	×	×	×	×	×	193
_	253 (91.3%) +0.308	×	×	18 (6.5%) -3.201	×	×	6 (2.2%) -3.380	×	×	0 (0.0%) -3.470	×	×	×	×	×	×	×	277
	×	×	(100.0%)	×	×	0 (0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	3
<b>∪</b>	×	×	1 (0.3%) -18.138	×	×	0 (0.0%) -18.194	×	×	329 (99.7%) +0.055	×	×	×	×	×	×	×	×	330
· · · · · ·	×	(0.0%)	×	×	0 (0.0%)	×	×	10 (100.0%)	×	×	×	×	×	×	×	×	×	10
0 0 = 0 0 = -	×	(0.0%)	×	×	0 (0.0%)	×	×	(0.0%)	×	×	140 (100.0%)	×	×	×	×	×	×	140
0 0 <b>-</b> 0 0 <b>-</b>	×	46 (46.0%) -1.083	×	×	0 (0.0%) -12.620	×	×	54 (54.0%) +0.923	×	×	×	×	×	×	×	×	×	100
 • •	×	(0.0%)	×	×	(0.0%)	×	×	(100.0%)	×	×	×	×	×	×	×	×	×	2
	×	(0.0%)	×	×	(0.0%)	×	×	(100.0%)	×	×	×	×	×	×	×	×	×	3
	×	(100.0%)	×	×	0 (0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	×	1

-00-	(0.0%)	×	×	0 (0.0%)	×	×	(0.0%)	×	×	(100.0%)	×	×	×	×	×	×	×	3
-00-	117 (100.0%)	×	×	(0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	×	×	117
<b>.</b>	×	×	0 (0.0%)	×	×	0 (0.0%)	×	×	(100.0%)	×	×	×	×	×	×	×	×	8
0 – 0 0 – – – –	×	×	(0.0%)	×	×	0 (0.0%)	×	×	(100.0%)	×	×	×	×	×	×	×	×	1
<b>U</b> – <b>U</b> – – – – – – – – – – – – – – – – – – –	×	×	4 (80.0%) +0.500	×	×	0 (0.0%) -2.833	×	×	1 (20.0%) -2.000	×	×	×	×	×	×	×	×	5
	×	(100.0%)	×	×	(0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	×	1
0 0 <b>-</b> 0 0 <b>-</b>	×	1 (5.3%) -2.169	×	×	4 (21.1%) -1.532	×	×	14 (73.7%) +0.592	×	×	×	×	×	×	×	×	×	19
<b>0</b> – <b>0 0</b> –	×	×	(0.0%)	×	×	(0.0%)	×	×	(100.0%)	×	×	×	×	×	×	×	×	9
- 0 0	×	(100.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	×	×	×	×	1
• • <del></del>	×	(0.0%)	×	×	(0.0%)	×	×	(100.0%)	×	×	×	×	×	×	×	×	×	3
0 0 <b>-</b> 0 0 <b>-</b>	×	(100.0%)	×	×	(0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	×	1
- • • - • • -	(100.0%)	×	×	0 (0.0%)	×	×	(0.0%)	×	×	×	×	×	×	×	×	×	×	1