

1 **SUPPLEMENTARY TABLE #1** – This table provides actual measurements of knee flexion or
 2 extension provided by each measurement tool. All measures are reported in degrees, data for
 3 each measurement method performed twice on eight angles using a single subject.
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Position	Goniometer	Android Samsung S7	iPhone 11	iPhone XR	iPad Pro
F1a (wedge)	94	94	93	91	95
F1b	94	93	92	92	94
F2a (foot flat)	116	119	120	118	120
F2b	115	119	119	117	120
F3a (mid range)	129	133	132	132	134
F3b	130	132	131	130	134
F4a (end range)	140	141	141	141	144
F4b	139	141	144	139	144
E1a (roller under knee)	-31	-25	-26	-25	-25
E1b	-31	-27	-26	-27	-25
E2a (wedge)	-19	-7	-4	-7	-5
E2b	-15	-6	-5	-6	-5
E3a (leg flat)	-2	2	1	1	0
E3b	-2	3	2	1	1
E4a (ankle/roller)	1	4	5	3	6
E4b	2	2	2	5	5

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 7 **F=flexion, E=extension,**
 8 **a=1st measurement, b=2nd measurement**
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10 **Supplemental Video Link #1**

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| 12 <https://youtu.be/kzYKnLlxEFA>



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Supplementary Figure #1 – F1 – First position of knee flexion

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Supplementary Figure #2 – F2 – Second position of knee flexion



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Supplementary Figure #3 – F3 – Third position of knee flexion

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Supplementary Figure #4 – F4 – Fourth position of knee flexion

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Supplementary Figure #5 – E1 – First position of knee extension



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Supplementary Figure #6 – E2 – Second position of knee extension



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Supplementary Figure #7 – E3 – Third position of knee extension



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Supplementary Figure #8 – E4 – Fourth position of knee extension