

Seeing People Clearly



Jack Butler

Assembly Technician

Active

Employee ID	undefined	Height	71.0 in.
Sex	Male	Weight	195 lbs.
Age	32 yrs.	Dominant	Right

inSEER InSight™

- 9/3/2020 "Task name" is in the worst 5% in terms of peak (90th percentile) trunk flexion ~ inSEER
- 9/3/2020 "Task name" is in the worst 5% in terms of percent time with neutral trunk posture ~ inSEER
- 9/3/2020 Elbow motion pattern for "employee" performing "task name" is different on "MM/DD/YYYY" than in previous video recorded on "MM/DD/YYYY" (this could then prompt a comparison) ~ inSEER

Employee Notes

- 7/14/2020 Day shift (7:00AM to 3:00PM) ~ James Kildare
- 6/23/2020 No prior history of back pain or other back injuries ~ James Kildare
- 6/11/2020 Transferred from Packaging to Assembly Line #2 ~ Ben Casey
- 11/25/2020 Requires mandated breaks every 1.5 hours for spinal injury. (Issued by Doctor Freddy Frank June, 2015.) ~ James Kildare
- 11/21/2020 Injured on the job. Neck and spine injuries. Work restrictions for 6 months, 2007. ~ James Kildare

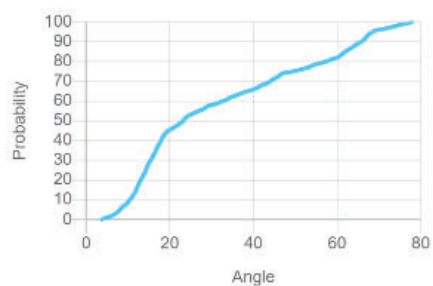
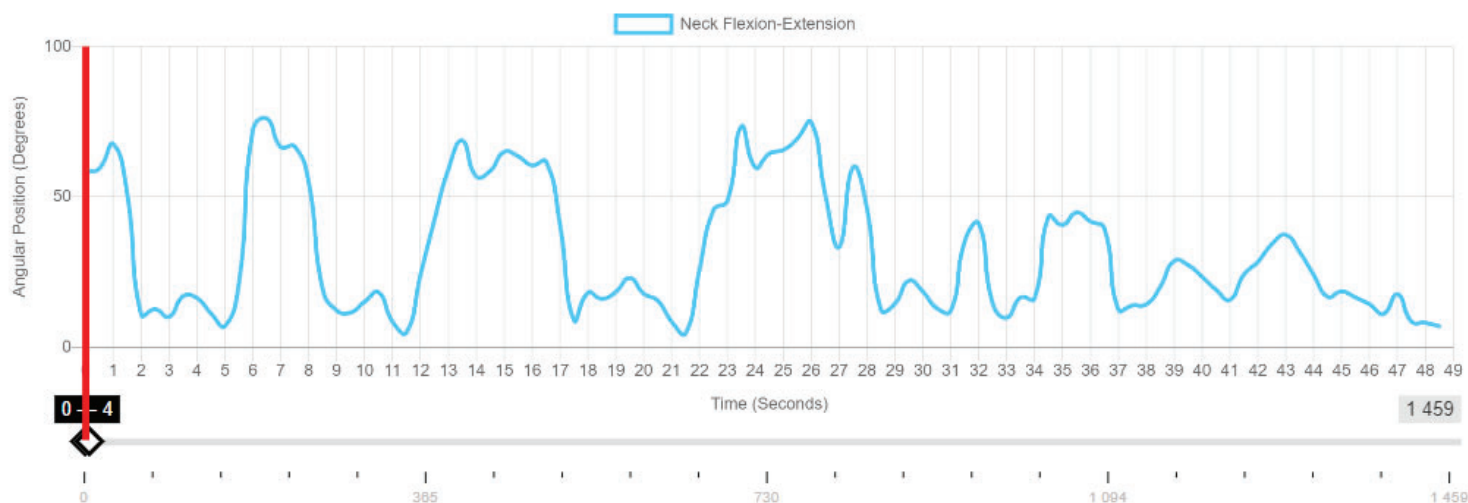
Task Notes

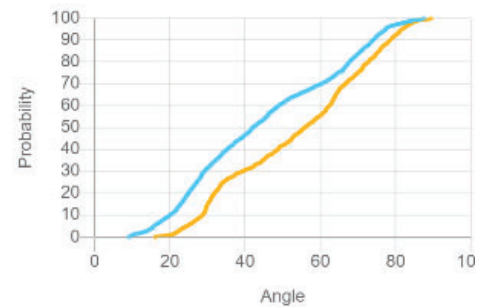
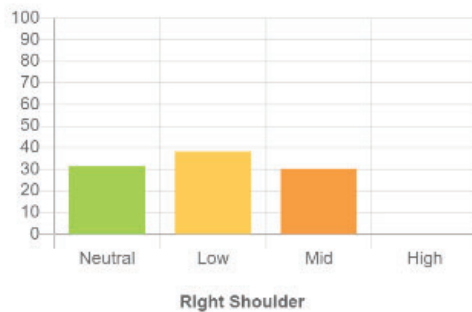
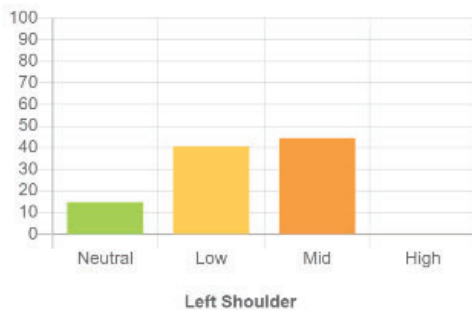
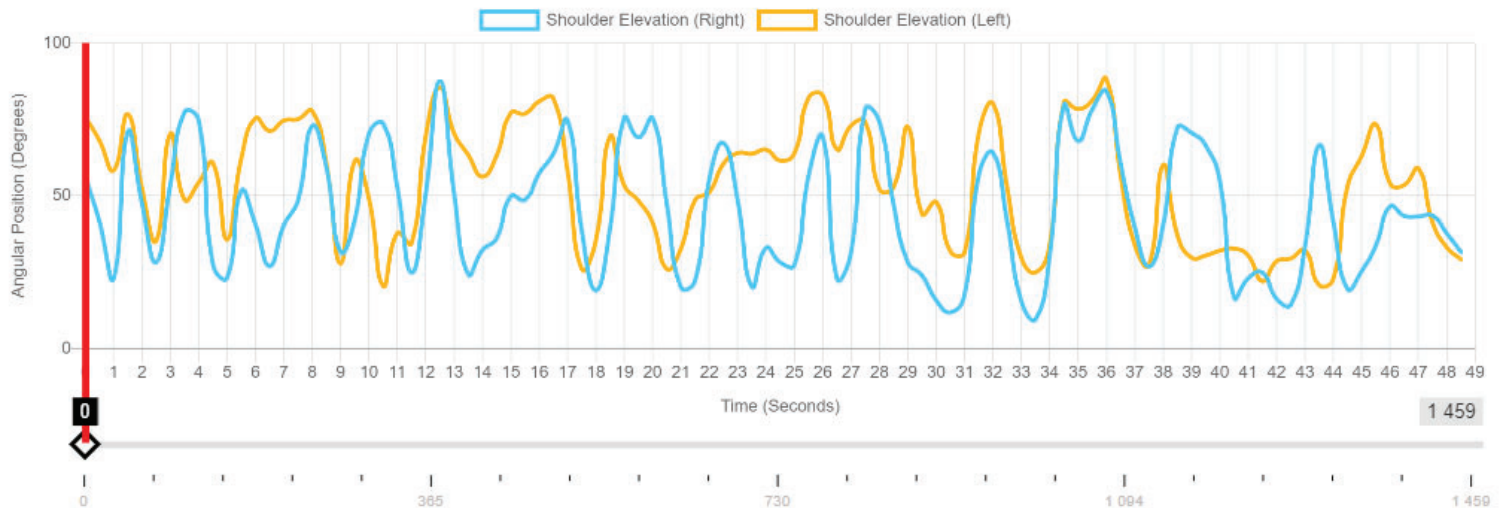
Assembly

- 7/30/2020 Continuous improvement event on 08/10/2020 ~ D. Elfman
- 7/30/2020 Task rotation with "Station 1 Assembly," "Station 2 Assembly," and "Station 3 Assembly" (rotation schedule: at regularly scheduled work breaks) ~ D. Elfman
- 7/30/2020 Production engineering contact: Angus MacGyver (555-555-5555; angus.macg@greatmfg.com) ~ D. Elfman

Chair

- 7/30/2020 Design engineering contact: Brad Stevens (555-555-5555; bad.stev@greatmfg.com) ~ D. Elfman





Detailed Shoulder Data

Left Shoulder

Posture Summary Measures

Mean Posture: 53.72 deg.
10th Percentile: 28.76 deg.
50th Percentile: 55.85 deg.
90th Percentile: 78.51 deg.
Peak Pos. (99 p-tile): 85.63 deg.

Posture EVA < 3s ≥ 3s

Posture	< 3s	≥ 3s
< -15 deg.	0.00	0.00
-15 ~ 15 deg.	0.00	0.00
15 ~ 30 deg.	0.00	0.15
30 ~ 45 deg.	0.00	0.21
45 ~ 60 deg.	0.00	0.20
≥ 60 deg.	0.45	0.00

Velocity Summary Measures

Mean Velocity: 30.50 deg/s
10th Percentile: 3.33 deg/s
50th Percentile: 22.15 deg/s
90th Percentile: 71.30 deg/s
Peak Vel. (99 p-tile): 100.98 deg/s

Right Shoulder

Posture Summary Measures

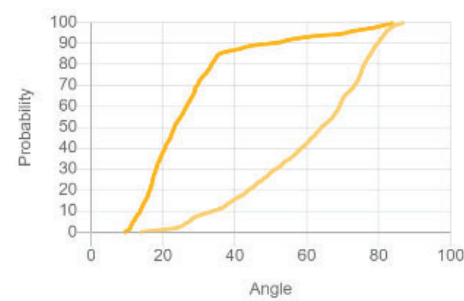
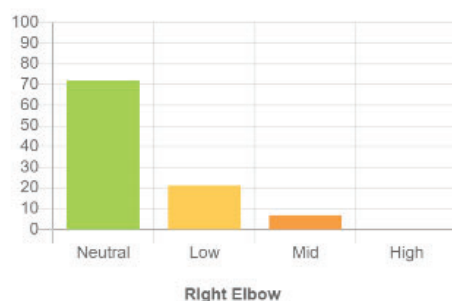
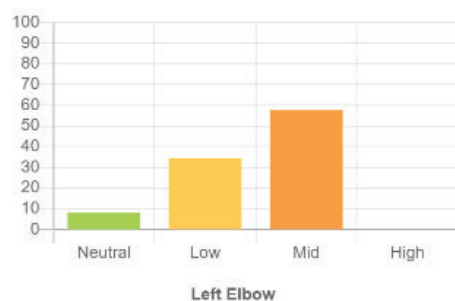
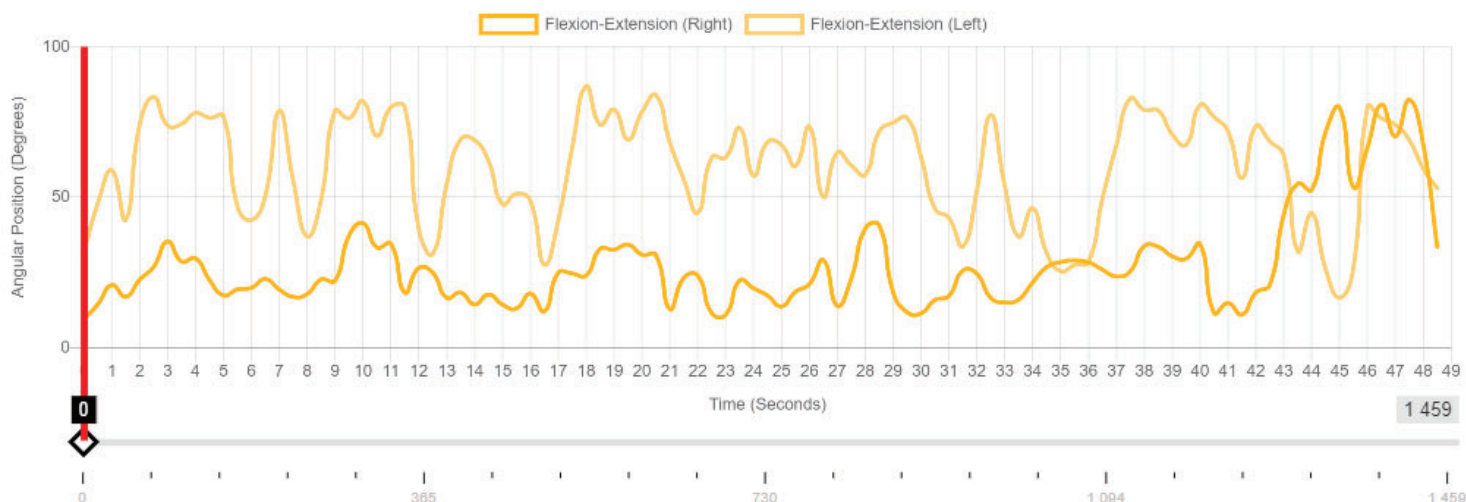
Mean Posture: 44.99 deg.
10th Percentile: 20.00 deg.
50th Percentile: 42.01 deg.
90th Percentile: 73.85 deg.
Peak Pos. (99 p-tile): 84.15 deg.

Posture EVA < 3s ≥ 3s

Posture	< 3s	≥ 3s
< -15 deg.	0.00	0.00
-15 ~ 15 deg.	0.04	0.00
15 ~ 30 deg.	0.00	0.28
30 ~ 45 deg.	0.00	0.23
45 ~ 60 deg.	0.00	0.15
≥ 60 deg.	0.30	0.00

Velocity Summary Measures

Mean Velocity: 37.91 deg/s
10th Percentile: 4.47 deg/s
50th Percentile: 25.51 deg/s
90th Percentile: 86.97 deg/s
Peak Vel. (99 p-tile): 136.50 deg/s



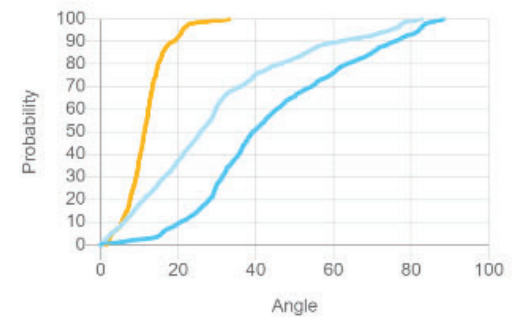
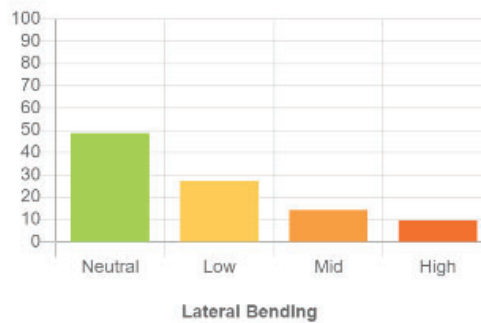
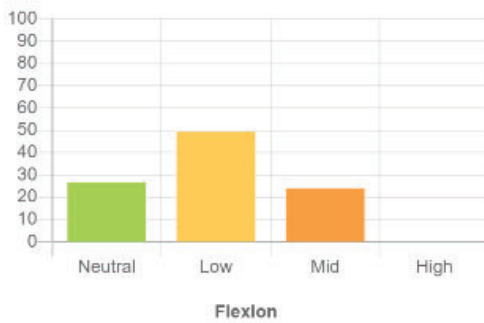
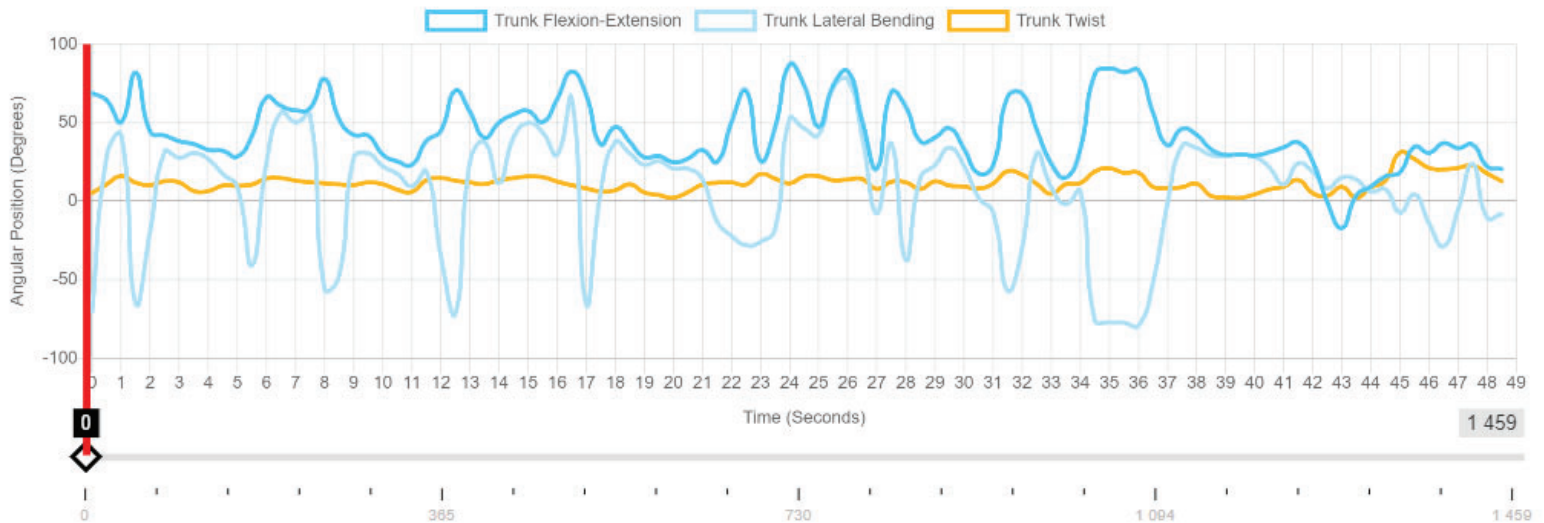
Detailed Elbow Data

Left Elbow

Posture Summary Measures	Posture EVA < 3s	≥ 3s	Velocity Summary Measures
Mean Posture: 60.25 deg.	< -15 deg. 0.00	0.00	Mean Velocity: 29.60 deg/s
10th Percentile: 34.00 deg.	-15 ~ 15 deg. 0.00	0.00	10th Percentile: 4.76 deg/s
50th Percentile: 64.02 deg.	15 ~ 30 deg. 0.00	0.08	50th Percentile: 24.30 deg/s
90th Percentile: 79.54 deg.	30 ~ 45 deg. 0.00	0.13	90th Percentile: 59.09 deg/s
Peak Pos. (99 p-tile): 84.80 deg.	45 ~ 60 deg. 0.00	0.21	Peak Vel. (99 p-tile): 111.60 deg/s
	≥ 60 deg. 0.58	0.00	

Right Elbow

Posture Summary Measures	Posture EVA < 3s	≥ 3s	Velocity Summary Measures
Mean Posture: 27.60 deg.	< -15 deg. 0.00	0.00	Mean Velocity: 15.76 deg/s
10th Percentile: 13.69 deg.	-15 ~ 15 deg. 0.00	0.15	10th Percentile: 1.78 deg/s
50th Percentile: 23.13 deg.	15 ~ 30 deg. 0.00	0.57	50th Percentile: 10.95 deg/s
90th Percentile: 49.11 deg.	30 ~ 45 deg. 0.00	0.17	90th Percentile: 37.69 deg/s
Peak Pos. (99 p-tile): 81.99 deg.	45 ~ 60 deg. 0.04	0.00	Peak Vel. (99 p-tile): 74.59 deg/s
	≥ 60 deg. 0.07	0.00	



Detailed Trunk Data

Flexion-Extension

Posture Summary Measures

Mean Posture: 43.66 deg.

10th Percentile: 20.78 deg.

50th Percentile: 39.34 deg.

90th Percentile: 75.74 deg.

Peak Pos. (99 p-tile): 86.10 deg.

Posture EVA < 3s

< -15 deg. 0.01

-15 ~ 15 deg. 0.04

15 ~ 30 deg. 0.00

30 ~ 45 deg. 0.00

45 ~ 60 deg. 0.00

≥ 60 deg. 0.24

≥ 3s Velocity Summary Measures

Mean Velocity: 29.73 deg/s

10th Percentile: 3.45 deg/s

50th Percentile: 19.21 deg/s

90th Percentile: 75.37 deg/s

Peak Vel. (99 p-tile): 116.29 deg/s

0.16

Lateral Bending

Posture Summary Measures

Mean Posture: 7.76 deg.

10th Percentile: -48.25 deg.

50th Percentile: 15.80 deg.

90th Percentile: 44.14 deg.

Peak Pos. (99 p-tile): 75.36 deg.

Posture EVA < 3s

< -15 deg. 0.00

-15 ~ 15 deg. 0.00

15 ~ 30 deg. 0.00

30 ~ 45 deg. 0.00

45 ~ 60 deg. 0.00

≥ 60 deg. 0.03

≥ 3s Velocity Summary Measures

Mean Velocity: 61.03 deg/s

10th Percentile: 3.93 deg/s

50th Percentile: 27.85 deg/s

90th Percentile: 162.70 deg/s

Peak Vel. (99 p-tile): 345.83 deg/s

0.07

Twist

Posture Summary Measures

Mean Posture: 11.63 deg.

10th Percentile: 5.49 deg.

50th Percentile: 11.32 deg.

90th Percentile: 18.44 deg.

Peak Pos. (99 p-tile): 28.23 deg.

Posture EVA < 3s

< -15 deg. 0.00

-15 ~ 15 deg. 0.00

15 ~ 30 deg. 0.00

30 ~ 45 deg. 0.01

45 ~ 60 deg. 0.00

≥ 60 deg. 0.00

≥ 3s Velocity Summary Measures

Mean Velocity: 7.61 deg/s

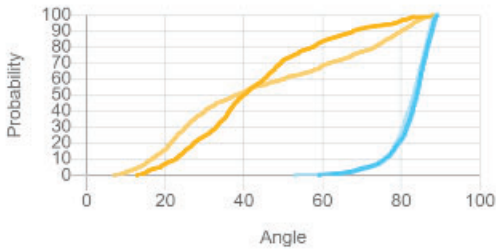
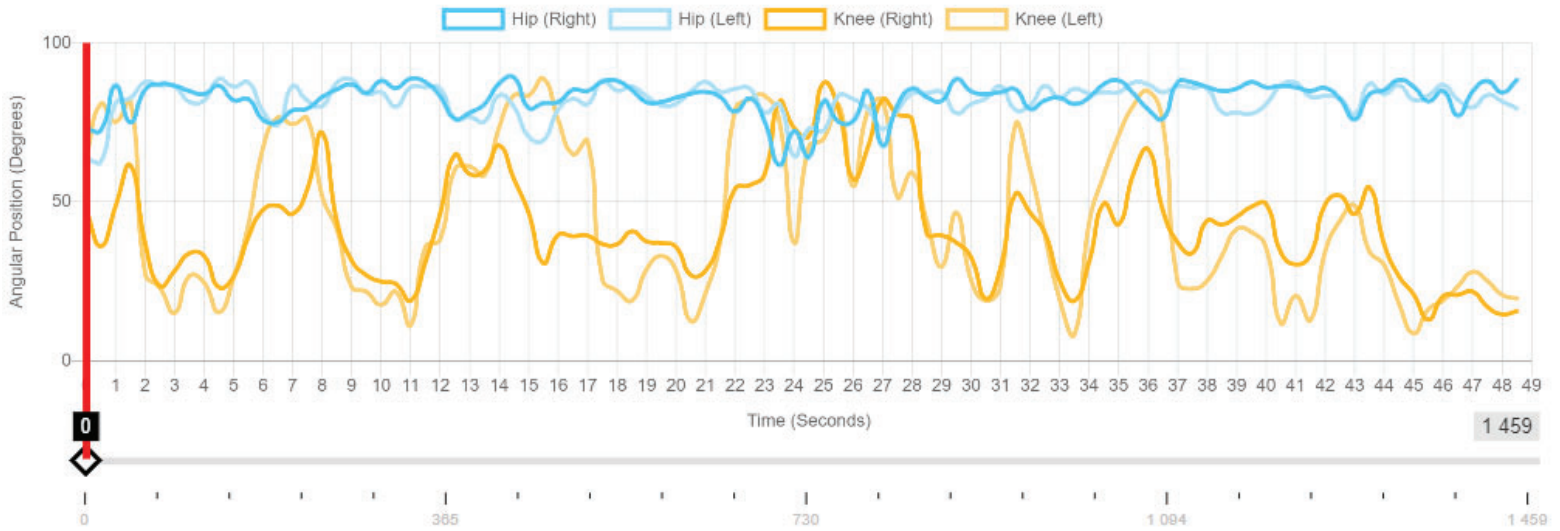
10th Percentile: 0.97 deg/s

50th Percentile: 5.92 deg/s

90th Percentile: 16.65 deg/s

Peak Vel. (99 p-tile): 26.66 deg/s

0.00



Detailed Flexion-Extension Data

Flexion-Extension

Posture Summary Measures	Posture EVA	< 3s	≥ 3s	Velocity Summary Measures
Mean Posture: 31.82 deg.	< -15 deg.	0.00	0.00	Mean Velocity: 21.47 deg/s
10th Percentile: 10.40 deg.	-15 ~ 15 deg.	0.00	0.29	10th Percentile: 2.69 deg/s
50th Percentile: 23.07 deg.	15 ~ 30 deg.	0.00	0.29	50th Percentile: 12.75 deg/s
90th Percentile: 65.85 deg.	30 ~ 45 deg.	0.00	0.13	90th Percentile: 59.34 deg/s
Peak Pos. (99 p-tile): 75.74 deg.	45 ~ 60 deg.	0.00	0.11	Peak Vel. (99 p-tile): 100.42 deg/s
	≥ 60 deg.	0.18	0.00	