

Heliot Ramos vs Zac Gallen – Scouting Report

	Notes
Gallen	Facing RHH, Gallen ses his 4S/KC & mixes in the SL. Curve is in–zone 34% of the time inducing a 44% chase, both KC & SL have over 50% chase–whiffs, BB is the danger pitch. 4S are easier to see w/ only a 17% chase & 12% whiff. When he does get a chase on the BB only about 16% actually are put into play. On the SL 25% of chased–SL are hard–hit compared to the overall zone–hard–hit of 50%. More likely to get a better batted ball on the 4S/CH regardless of where it is thrown. Most success in terms of batted ball is the KC w/ .242 xwOBA & .147 BABIP. W/in the zone KC BABIP is only .114. Typically starts the PA off w/ a 4S has done so w/ a SL/KC on occasion. Put away pitch is often the KC–outside the zone ~80% of the time both on 0–2 & 1–2. 2–K KC is where he tries to get a chase & gets a 2–K KC chase ~45% of the time, w/ an overall KC 2–K whiff ~45%. Top 2–Pitch seq. is 4S–KC w/ chase of 45% on the KC & whiff of 33%. When he throws back–back KC 2nd KC only in–zone 30% of the time. Ramos has a .210 wOBA when he is behind & is more likely to chase a BB. 4S hangs over the middle of the plate, especially when his is behind. KC is dropped over the middle of the plate but low & out of the zone. Dangerous to throw there b/c a miss will be exploited. Overall would stay away from the 4S over the middle as Ramos crushes those. Throwing a SL for a strike 1st pitch then coming back w/ a KC to induce a swing can work very well. Also, if you do throw the 4S throw it high so he cannot get good contact w/ it. CH could be difference maker in the PA.
Ramos	Facing RHP, Ramos is overall to chase a pitch 30% of the time, w/ a majority of those coming from KC/SL. He does not miss too often w/in the zone having a 17% Z–Whiff. Chasing is where he struggles, KC/SL both have a chase–whiff +60%. Expect Gallen to exploit this–throw outside BB. Smahes the ball w/ an overall hard–hit of 50%, but most of those come from in–zone. His chase hard–hit is 16% w/ a 0% hard–hit on both CH/KC. Might see the rare CH from Gallen in this matchup. Ramos mashes 4S w/ .354 xwOBA & a .162 ISO. Struggles w/ the CH .251 xwOBA & .000 ISO. Does not do well vs the o–zone SL, .096 wOBA & a .000 ISO, .176 xwOBA. Ramos will swing 1st pitch especially in–zone, tends to lay off SL in the middle of the count especially if he is ahead he will take a zone–SL to wait for the 4S. 1st Pitch swing goes down the more Ramos faces a starter, does not swing at 1st CH could be a time to throw one. Back to Back BB does get ramos to chase on the 2nd BB 45% of the time. Key will be to get Gallen behind b/c his wOBA when ahead is .203 vs a behind wOBA of .448. Ramos excels when pitcher is behind w/ a .412 wOBA. Really likes the 4S over the middle, whiffing on higher fastballs. SL/KC left over the middle will be a hard–hit. Overall would stay clear of the SL & be disclinpled w/ the drop KC coming right over the plate. 4S are hittable & tend to be left over the middle of the plate.

Zac Gallen vs RHH											
Pitch	Usage	Zone %	Z–Swing %	Heart %	H–Swing %	O–Zone %	Chase %	Whiff %	Z–Whiff %	H–Whiff %	O–Whiff %
4–Seam	50%	53%	65%	27%	74%	47%	17%	12%	9%	7%	22%
Changeup	5%	28%	81%	12%	100%	72%	33%	30%	15%	14%	43%
Kn.Curve	28%	34%	70%	15%	71%	66%	44%	34%	11%	11%	52%
Slider	16%	41%	71%	18%	70%	59%	21%	34%	22%	12%	60%
ALL	52%	44%	67%	21%	74%	56%	28%	23%	12%	9%	45%

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Heliot Ramos vs RHP											
Pitch	Usage	Zone %	Z–Swing %	Heart %	H–Swing %	O–Zone %	Chase %	Whiff %	Z–Whiff %	H–Whiff %	O–Whiff %
4–Seam	33%	53%	70%	34%	82%	47%	28%	30%	21%	20%	54%
Changeup	3%	46%	86%	26%	100%	54%	24%	29%	17%	17%	67%
Kn.Curve	7%	53%	80%	29%	89%	47%	37%	26%	10%	4%	65%
Slider	20%	36%	75%	23%	77%	64%	30%	34%	16%	12%	60%
ALL	73%	48%	70%	28%	78%	52%	30%	28%	17%	13%	51%

Zac Gallen vs RHH											
Pitch	Strike %	Ball %	O–Strike %	BIP %	Z–BIP %	O–BIP %	Hard–Hit %	Z–H–Hit %	O–H–Hit %	Heart–H–Hit %	
4–Seam	62%	38%	62%	42%	44%	33%	49%	52%	31%	63%	
Changeup	53%	47%	53%	30%	54%	7%	50%	57%	0%	80%	
Kn.Curve	65%	35%	65%	31%	48%	17%	38%	38%	35%	32%	
Slider	55%	45%	55%	39%	48%	16%	41%	43%	25%	47%	
ALL	61%	39%	61%	37%	46%	20%	45%	48%	32%	55%	

Heliot Ramos RHP											
Pitch	Strike %	Ball %	O–Strike %	BIP %	Z–BIP %	O–BIP %	Hard–Hit %	Z–H–Hit %	O–H–Hit %	Heart–H–Hit %	
4–Seam	67%	33%	67%	26%	31%	11%	68%	72%	43%	72%	
Changeup	59%	41%	59%	33%	39%	17%	62%	71%	0%	80%	
Kn.Curve	68%	32%	68%	50%	59%	29%	55%	67%	0%	75%	
Slider	58%	42%	58%	36%	51%	16%	48%	54%	22%	60%	
ALL	65%	35%	65%	36%	44%	20%	47%	54%	16%	59%	

Heliot Ramos vs Zac Gallen – Scouting Report

Zac Gallen vs RHH										
Pitch	wOBA	xwOBA	xBA	BABIP	ISO	Z–wOBA	Z–xwOBA	Z–xBA	Z–BABIP	Z–ISO
4–Seam	.347	.365	.360	.238	.099	.313	.342	.374	.268	.116
Changeup	.303	.358	.392	.176	.059	.436	.567	.445	.429	.143
Kn.Curve	.258	.242	.329	.147	.098	.217	.284	.293	.114	.205
Slider	.360	.334	.335	.256	.179	.383	.368	.335	.250	.219

Heliot Ramos vs RHP										
Pitch	wOBA	xwOBA	xBA	BABIP	ISO	Z–wOBA	Z–xwOBA	Z–xBA	Z–BABIP	Z–ISO
4–Seam	.313	.354	.388	.153	.162	.331	.379	.400	.205	.233
Changeup	.273	.251	.318	.200	.000	.180	.157	.234	.200	.000
Kn.Curve	.331	.346	.328	.179	.128	.321	.339	.311	.179	.179
Slider	.333	.334	.351	.203	.217	.460	.419	.374	.289	.333

Zac Gallen vs RHH										
Pitch	O–wOBA	O–xwOBA	O–xBA	O–BABIP	O–ISO	H–wOBA	H–xwOBA	H–xBA	H–BABIP	H–ISO
4–Seam	.444	.432	.281	.154	.051	.305	.391	.390	.242	.167
Changeup	.210	.211	.017	.000	.000	.610	.757	.586	.600	.200
Kn.Curve	.289	.210	.410	.172	.017	.047	.245	.256	.053	.000
Slider	.257	.177	.334	.286	.000	.507	.489	.379	.267	.400

Heliot Ramos vs Zac Gallen – Scouting Report

Heliot Ramos vs RHP										
Pitch	O-wOBA	O-xwOBA	O-xBA	O-BABIP	O-ISO	H-wOBA	H-xwOBA	H-xBA	H-BABIP	H-ISO
4-Seam	.278	.306	.296	.053	.026	.422	.440	.400	.245	.321
Changeup	.460	.440	.900	.200	.000	.257	.140	.200	.286	.000
Kn.Curve	.355	.365	.410	.182	.000	.400	.421	.345	.167	.278
Slider	.096	.176	.254	.042	.000	.498	.398	.332	.387	.258

Heliot Ramos vs Zac Gallen – Scouting Report

Zac Gallen Usage By Count RHH

4S	57.4%	48.3%	30.4%	56.5%	47.3%	36.7%	78.9%	48.6%	37.6%	92.3%	78.6%	47.1%
SL	19.3%	26.5%	18.8%	16.1%	16.8%	14.7%	5.3%	15.7%	10.9%	0.0%	10.7%	5.9%
KC	23.0%	22.4%	42.0%	25.0%	27.5%	40.4%	10.5%	27.1%	42.6%	7.7%	7.1%	40.0%
CH	0.3%	2.7%	8.7%	2.4%	8.4%	8.3%	5.3%	8.6%	8.9%	0.0%	3.6%	7.1%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Heliot Ramos Usage By Count RHP

4S	29.2%	30.1%	37.5%	27.8%	25.2%	32.3%	39.6%	38.2%	38.9%	63.6%	50.0%	45.5%
SL	20.3%	18.1%	13.6%	21.5%	23.8%	23.6%	17.0%	19.7%	24.1%	0.0%	11.5%	15.6%
KC	7.1%	4.7%	10.2%	4.2%	6.3%	11.8%	5.7%	3.9%	8.3%	0.0%	0.0%	9.1%
CH	1.6%	4.1%	4.5%	0.7%	4.9%	3.1%	0.0%	5.3%	4.6%	0.0%	7.7%	6.5%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Zac Gallen Zone % By Count RHH

4S	53.1%	46.5%	52.4%	55.7%	54.8%	42.5%	53.3%	64.7%	42.1%	25.0%	81.8%	62.5%
SL	45.8%	38.5%	15.4%	40.0%	36.4%	31.2%	100.0%	45.5%	27.3%	0.0%	100.0%	80.0%
KC	48.6%	24.2%	24.1%	58.1%	33.3%	20.5%	50.0%	31.6%	20.9%	0.0%	100.0%	26.5%
CH	0.0%	0.0%	0.0%	66.7%	45.5%	0.0%	100.0%	33.3%	22.2%	0.0%	0.0%	50.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Heliot Ramos Zone % By Count RHP

4S	54.1%	50.0%	33.3%	45.0%	61.1%	41.5%	71.4%	62.1%	47.6%	57.1%	76.9%	62.9%
SL	46.8%	25.7%	8.3%	38.7%	35.3%	20.0%	44.4%	26.7%	38.5%	0.0%	66.7%	50.0%
KC	48.1%	66.7%	55.6%	50.0%	66.7%	46.7%	66.7%	66.7%	44.4%	0.0%	0.0%	42.9%
CH	66.7%	50.0%	50.0%	0.0%	57.1%	50.0%	0.0%	0.0%	60.0%	0.0%	0.0%	40.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Zac Gallen O–Zone % By Count RHH

4S	46.9%	53.5%	47.6%	44.3%	45.2%	57.5%	46.7%	35.3%	57.9%	75.0%	18.2%	37.5%
SL	54.2%	61.5%	84.6%	60.0%	63.6%	68.8%	0.0%	54.5%	72.7%	0.0%	0.0%	20.0%
KC	51.4%	75.8%	75.9%	41.9%	66.7%	79.5%	50.0%	68.4%	79.1%	100.0%	0.0%	73.5%
CH	100.0%	100.0%	100.0%	33.3%	54.5%	100.0%	0.0%	66.7%	77.8%	0.0%	100.0%	50.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Heliot Ramos O–Zone % By Count RHP

4S	45.9%	50.0%	66.7%	55.0%	38.9%	58.5%	28.6%	37.9%	52.4%	42.9%	23.1%	37.1%
SL	53.2%	74.3%	91.7%	61.3%	64.7%	80.0%	55.6%	73.3%	61.5%	0.0%	33.3%	50.0%
KC	51.9%	33.3%	44.4%	50.0%	33.3%	53.3%	33.3%	33.3%	55.6%	0.0%	0.0%	57.1%
CH	33.3%	50.0%	50.0%	100.0%	42.9%	50.0%	0.0%	100.0%	40.0%	0.0%	100.0%	60.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

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Zac Gallen Heart % By Count RHH

4S	24.6%	19.7%	14.3%	27.1%	25.8%	35.0%	33.3%	38.2%	23.7%	8.3%	45.5%	30.0%
SL	23.7%	20.5%	0.0%	25.0%	18.2%	6.2%	50.0%	0.0%	9.1%	0.0%	33.3%	40.0%
KC	24.3%	9.1%	10.3%	32.3%	22.2%	2.3%	25.0%	15.8%	4.7%	0.0%	0.0%	8.8%
CH	0.0%	0.0%	0.0%	33.3%	9.1%	0.0%	50.0%	16.7%	0.0%	0.0%	0.0%	50.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Heliot Ramos Heart % By Count RHP

4S	36.0%	32.8%	24.2%	27.5%	44.4%	24.4%	52.4%	37.9%	28.6%	28.6%	38.5%	40.0%
SL	33.8%	17.1%	0.0%	22.6%	23.5%	3.3%	44.4%	20.0%	15.4%	0.0%	66.7%	33.3%
KC	22.2%	55.6%	33.3%	16.7%	44.4%	26.7%	0.0%	33.3%	22.2%	0.0%	0.0%	28.6%
CH	16.7%	25.0%	25.0%	0.0%	28.6%	25.0%	0.0%	0.0%	60.0%	0.0%	0.0%	40.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Zac Gallen Swing % By Count RHH

4S	36.0%	36.6%	57.1%	42.9%	43.5%	47.5%	30.0%	50.0%	39.5%	0.0%	63.6%	70.0%
SL	33.9%	51.3%	7.7%	20.0%	59.1%	37.5%	50.0%	72.7%	36.4%	0.0%	66.7%	80.0%
KC	37.1%	51.5%	55.2%	48.4%	55.6%	61.4%	50.0%	57.9%	53.5%	0.0%	100.0%	70.6%
CH	0.0%	50.0%	33.3%	33.3%	45.5%	22.2%	100.0%	66.7%	44.4%	0.0%	0.0%	83.3%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Heliot Ramos Swing % By Count RHP

4S	30.6%	53.4%	51.5%	45.0%	63.9%	56.1%	61.9%	51.7%	50.0%	14.3%	76.9%	77.1%
SL	39.0%	42.9%	25.0%	38.7%	50.0%	43.3%	44.4%	66.7%	57.7%	0.0%	66.7%	91.7%
KC	48.1%	55.6%	66.7%	50.0%	88.9%	60.0%	66.7%	100.0%	66.7%	0.0%	0.0%	42.9%
CH	16.7%	50.0%	50.0%	100.0%	57.1%	75.0%	0.0%	0.0%	80.0%	0.0%	50.0%	80.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Zac Gallen Z–Swing % By Count RHH

4S	55.9%	60.6%	81.8%	66.7%	67.6%	76.5%	56.2%	63.6%	62.5%	0.0%	72.2%	88.0%
SL	59.3%	93.3%	50.0%	25.0%	87.5%	80.0%	50.0%	100.0%	100.0%	0.0%	66.7%	75.0%
KC	50.0%	62.5%	100.0%	55.6%	75.0%	100.0%	50.0%	83.3%	100.0%	0.0%	100.0%	77.8%
CH	0.0%	0.0%	0.0%	50.0%	80.0%	0.0%	100.0%	50.0%	100.0%	0.0%	0.0%	100.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

Heliot Ramos Z–Swing % By Count RHP

4S	46.7%	79.3%	90.9%	72.2%	77.3%	82.4%	66.7%	66.7%	65.0%	25.0%	90.0%	100.0%
SL	61.1%	88.9%	100.0%	58.3%	100.0%	83.3%	50.0%	75.0%	90.0%	0.0%	100.0%	100.0%
KC	76.9%	83.3%	80.0%	66.7%	83.3%	100.0%	50.0%	100.0%	75.0%	0.0%	0.0%	66.7%
CH	25.0%	100.0%	100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
	0–0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2

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Zac Gallen Chase % By Count RHH

4S	13.4%	15.8%	30.0%	12.9%	14.3%	26.1%	0.0%	25.0%	22.7%	0.0%	25.0%	40.0%
SL	12.5%	25.0%	0.0%	16.7%	42.9%	18.2%	0.0%	50.0%	12.5%	0.0%	0.0%	100.0%
KC	25.0%	48.0%	40.9%	38.5%	45.8%	51.4%	50.0%	46.2%	41.2%	0.0%	0.0%	68.0%
CH	0.0%	50.0%	33.3%	0.0%	16.7%	22.2%	0.0%	75.0%	28.6%	0.0%	0.0%	66.7%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2

Heliot Ramos Chase % By Count RHP

4S	11.8%	27.6%	31.8%	22.7%	42.9%	37.5%	50.0%	27.3%	36.4%	0.0%	33.3%	38.5%
SL	19.5%	26.9%	18.2%	26.3%	22.7%	33.3%	40.0%	63.6%	37.5%	0.0%	0.0%	83.3%
KC	21.4%	0.0%	50.0%	33.3%	100.0%	25.0%	100.0%	100.0%	60.0%	0.0%	0.0%	25.0%
CH	0.0%	0.0%	0.0%	100.0%	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	50.0%	66.7%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2

Zac Gallen Whiff % By Count RHH

4S	17.5%	3.8%	33.3%	13.3%	14.8%	15.8%	0.0%	11.8%	6.7%	0.0%	0.0%	0.0%
SL	35.0%	20.0%	0.0%	50.0%	30.8%	33.3%	100.0%	62.5%	25.0%	0.0%	50.0%	25.0%
KC	23.1%	35.3%	43.8%	33.3%	25.0%	48.1%	50.0%	45.5%	34.8%	0.0%	50.0%	20.8%
CH	0.0%	50.0%	50.0%	0.0%	20.0%	50.0%	0.0%	50.0%	25.0%	0.0%	0.0%	20.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2

Heliot Ramos Whiff % By Count RHP

4S	52.9%	12.9%	41.2%	11.1%	34.8%	26.1%	23.1%	6.7%	47.6%	0.0%	30.0%	25.9%
SL	23.3%	33.3%	66.7%	25.0%	35.3%	38.5%	25.0%	70.0%	40.0%	0.0%	0.0%	27.3%
KC	30.8%	0.0%	50.0%	66.7%	25.0%	11.1%	50.0%	33.3%	16.7%	0.0%	0.0%	0.0%
CH	0.0%	0.0%	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	75.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2

Zac Gallen In Play % By Count RHH

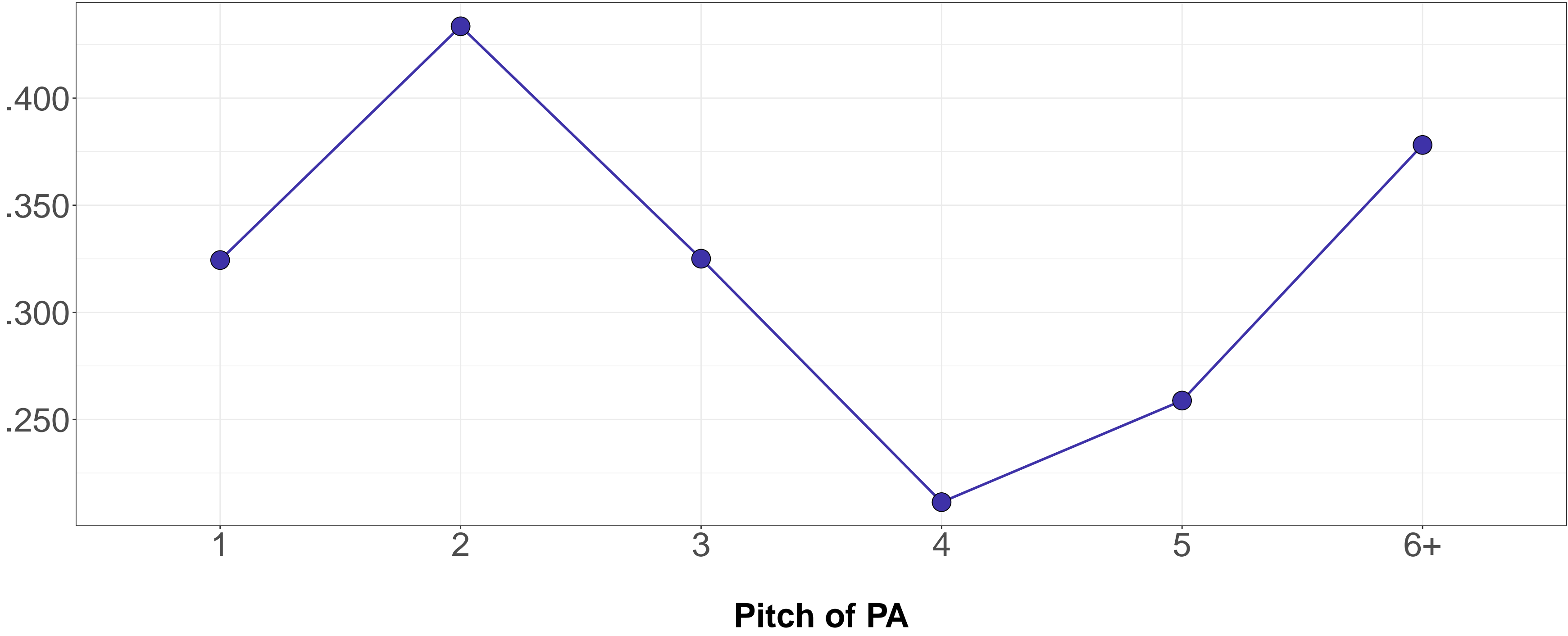
4S	36.5%	42.3%	0.0%	40.0%	29.6%	52.6%	33.3%	35.3%	66.7%	0.0%	50.0%	64.3%
SL	30.0%	45.0%	100.0%	50.0%	30.8%	50.0%	0.0%	25.0%	50.0%	0.0%	0.0%	75.0%
KC	34.6%	23.5%	43.8%	33.3%	40.0%	25.9%	0.0%	9.1%	30.4%	0.0%	50.0%	29.2%
CH	0.0%	0.0%	0.0%	100.0%	40.0%	0.0%	50.0%	0.0%	50.0%	0.0%	0.0%	40.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2

Heliot Ramos In Play % By Count RHP

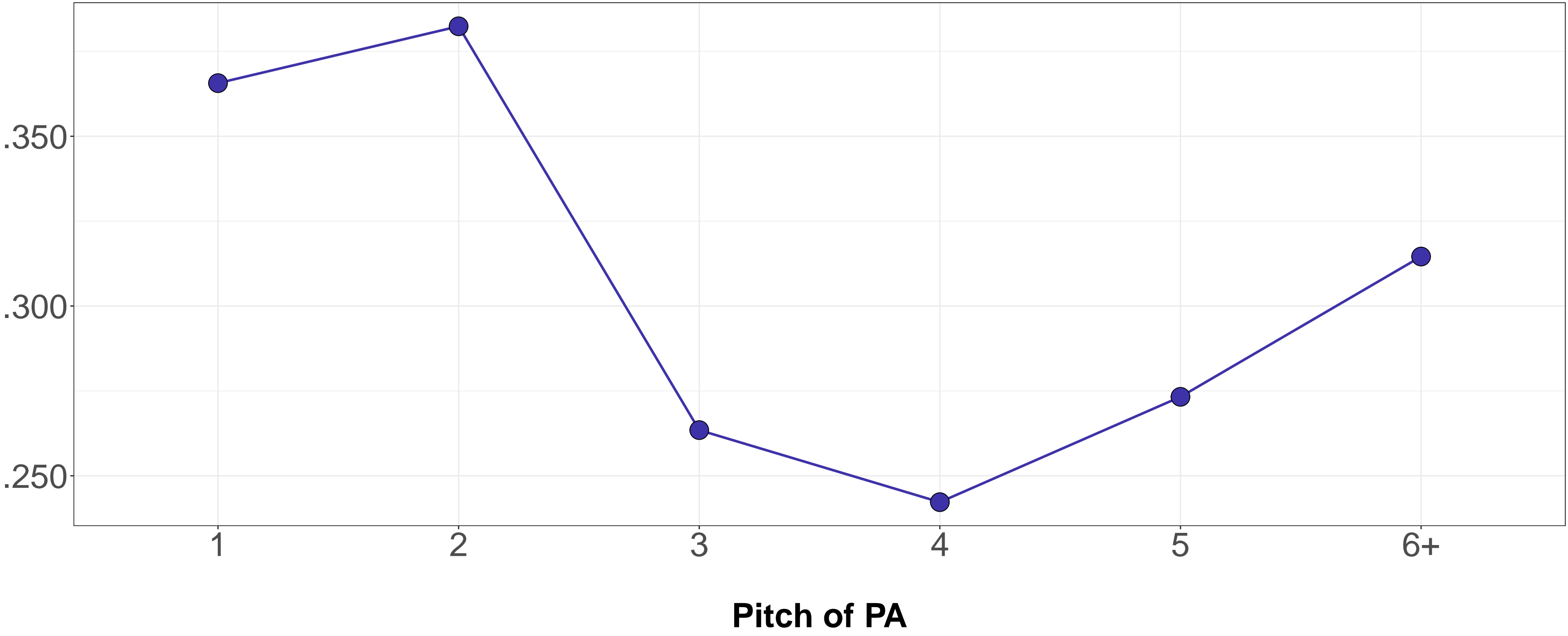
4S	17.6%	25.8%	23.5%	16.7%	34.8%	26.1%	23.1%	40.0%	23.8%	100.0%	20.0%	29.6%
SL	40.0%	46.7%	33.3%	33.3%	41.2%	30.8%	50.0%	20.0%	26.7%	0.0%	50.0%	36.4%
KC	46.2%	60.0%	50.0%	33.3%	25.0%	77.8%	0.0%	33.3%	50.0%	0.0%	0.0%	100.0%
CH	100.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	25.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2

Heliot Ramos vs Zac Gallen – Scouting Report

Zac Gallen xwOBA by Pitch vs RHH



Heliot Ramos xwOBA by Pitch vs RHP



Zac Gallen 1st-Pitch Usage vs RHH

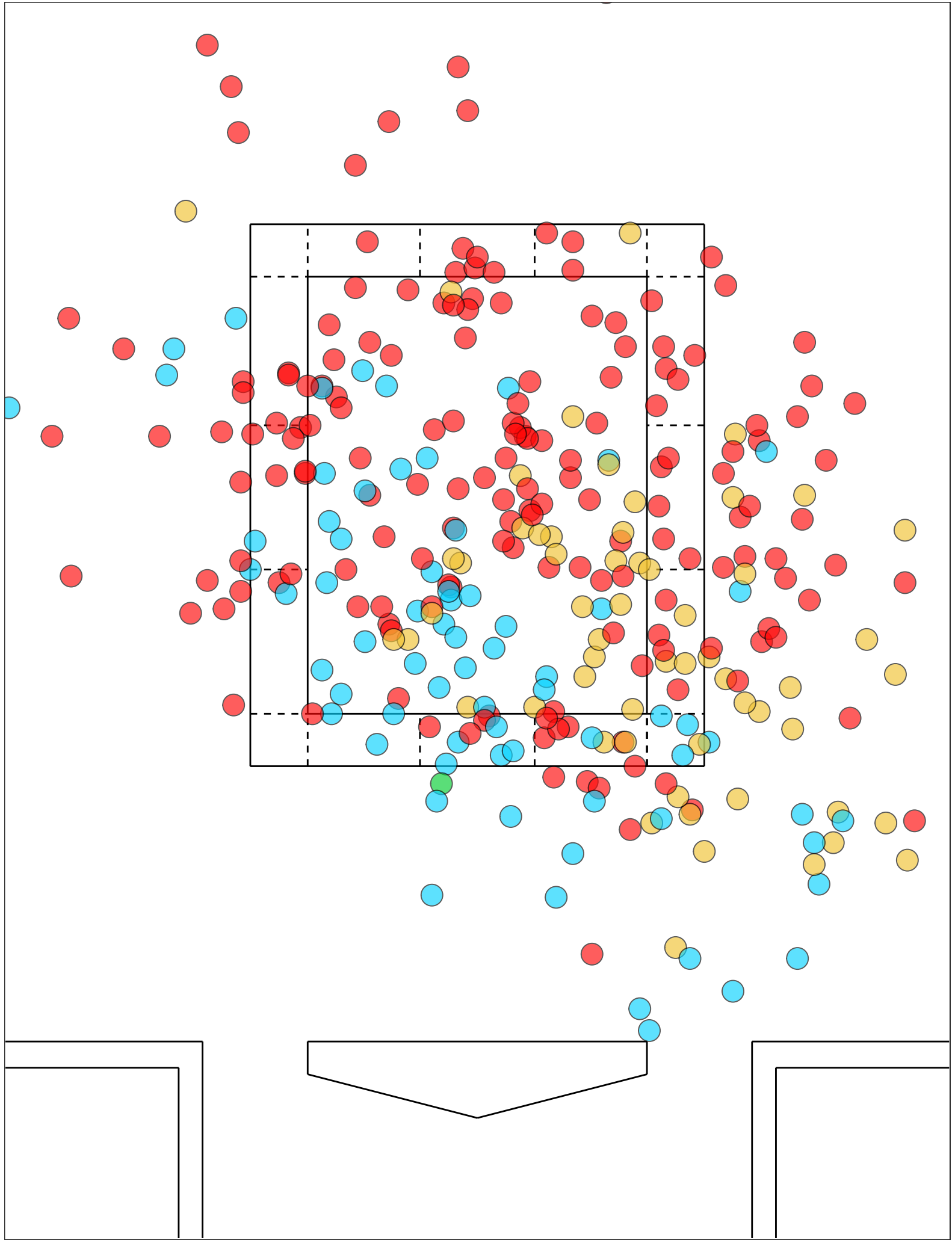
Most Frequent	After Strikeout	After Walk	After Field Out	After Hit	Men in Scoring
4–Seam (57.4%)	4–Seam (59.7%)	4–Seam (42.9%)	4–Seam (61.7%)	4–Seam (52.7%)	4–Seam (43.2%)

Heliot Ramos 1st-Pitch Swing % vs RHP

1st Time Seeing	2nd Time Seeing	3rd Time Seeing	After Strikeout	After Hit	Men in Scoring
35%	38%	29%	40%	32%	38%

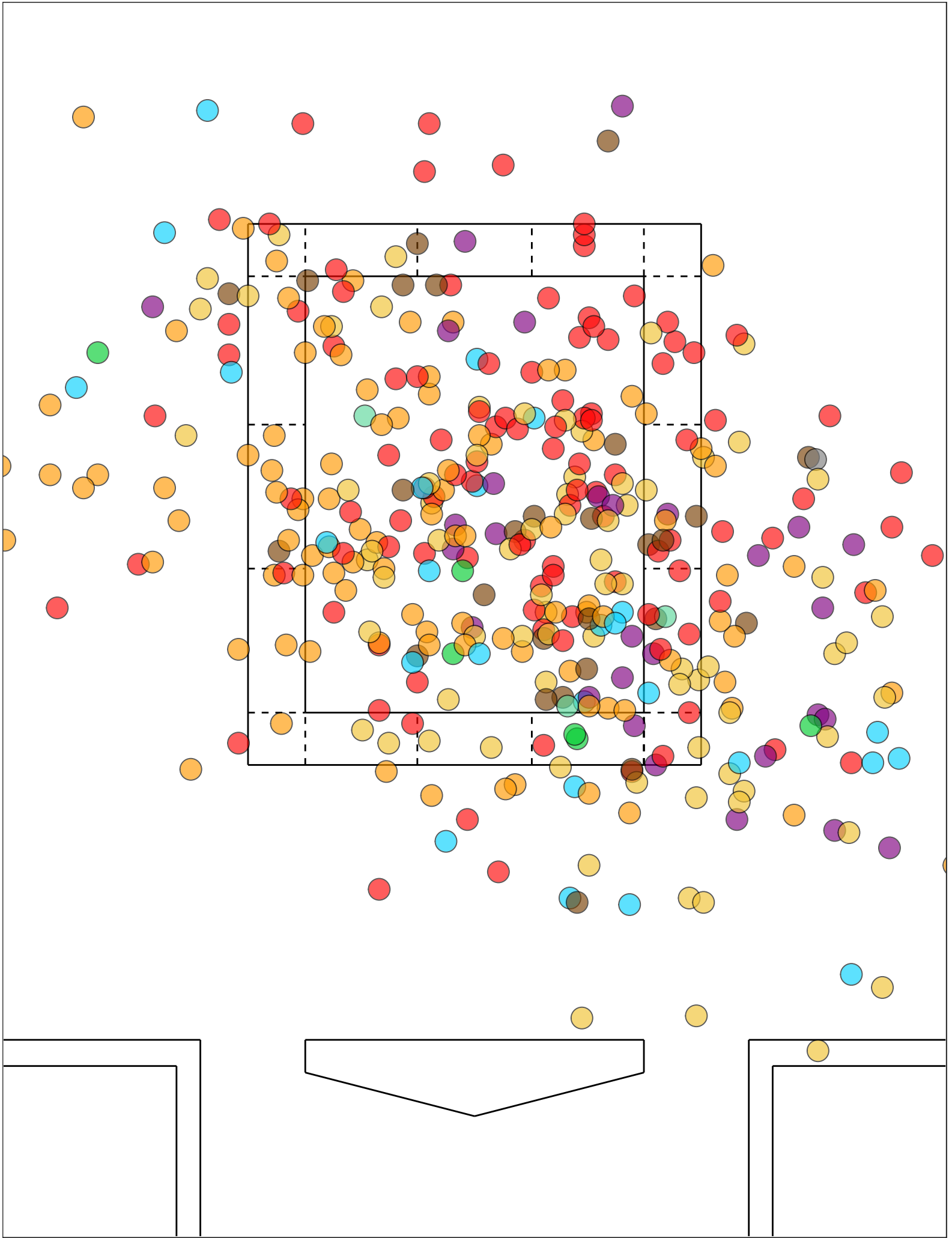
Zac Gallen vs RHH

Pitch	Zone	Heart	Swing	BIP
4S	53%	25%	36%	37%
KC	49%	24%	37%	35%
CH	0%	0%	0%	–
SL	46%	24%	34%	30%



Heliot Ramos vs RHP

Pitch	Zone	Heart	Swing	BIP
4S	54%	36%	31%	18%
SL	47%	34%	39%	40%
CH	67%	17%	17%	100%
KC	48%	22%	48%	46%



Heliot Ramos vs Zac Gallen – Scouting Report

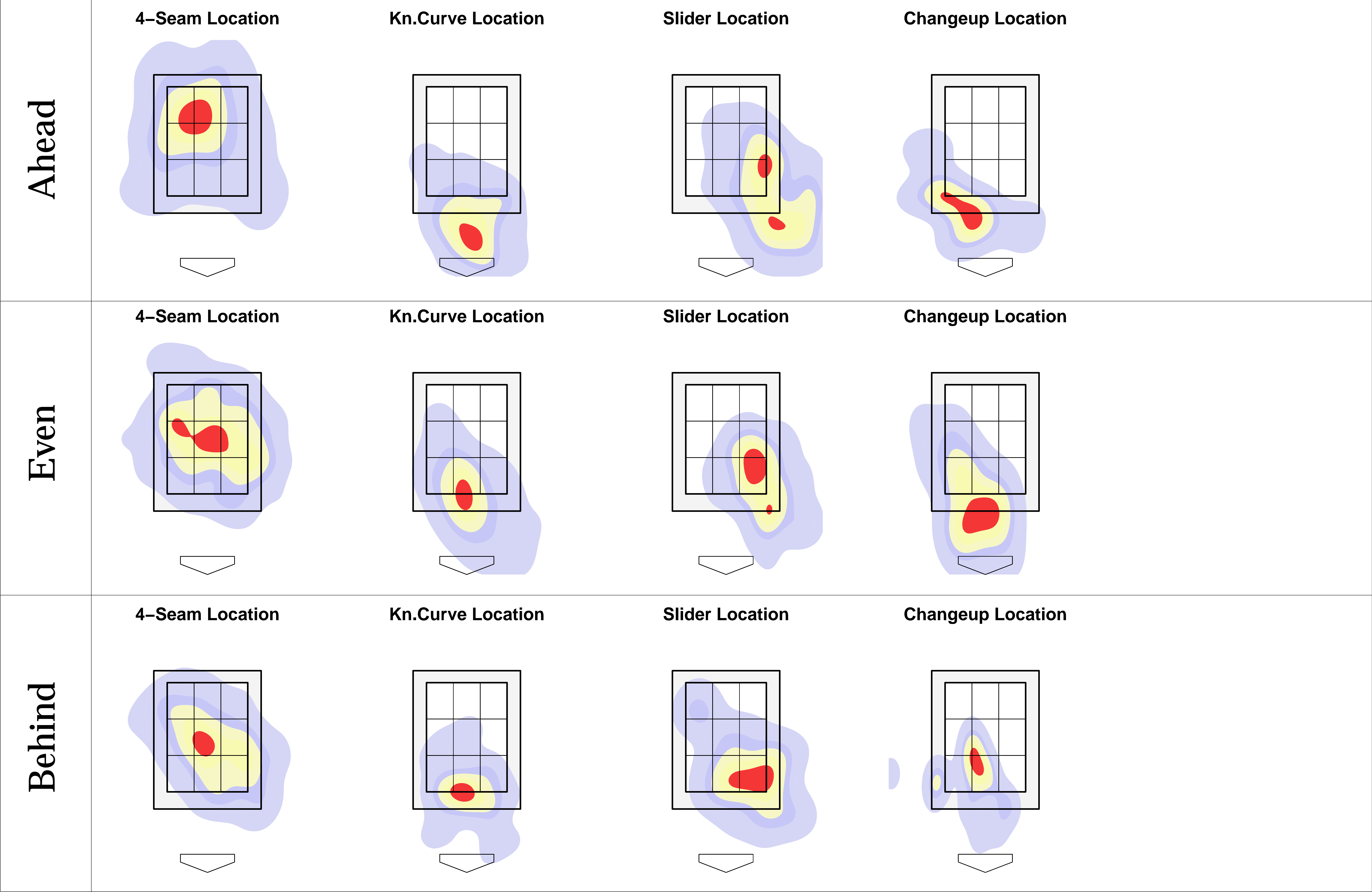
Zac Gallen Two Pitch Sequences vs RHH					
Sequence	Usage	Swing %	Whiff %	Chase %	Zone %
4S–4S	26.1%	40.1%	10.8%	12.5%	57.2%
4S–KC	15.3%	53.1%	33.3%	44.6%	36.0%
KC–4S	13.6%	38.5%	10.0%	17.4%	44.9%
KC–KC	9.2%	51.4%	37.0%	42.5%	30.5%
SL–4S	8.6%	51.5%	9.8%	15.0%	59.6%

Heliot Ramos Two Pitch Sequences vs RHP					
Sequence	Usage	Swing %	Whiff %	Chase %	BIP %
FAST–FAST	37.8%	54.9%	23.4%	22.1%	34.4%
FAST–BRK	20.0%	50.0%	30.5%	31.3%	43.8%
BRK–FAST	18.8%	54.3%	21.5%	28.2%	39.3%
BRK–BRK	13.7%	59.7%	40.7%	45.5%	36.0%
FAST–OFF	4.0%	57.1%	33.3%	36.0%	41.7%

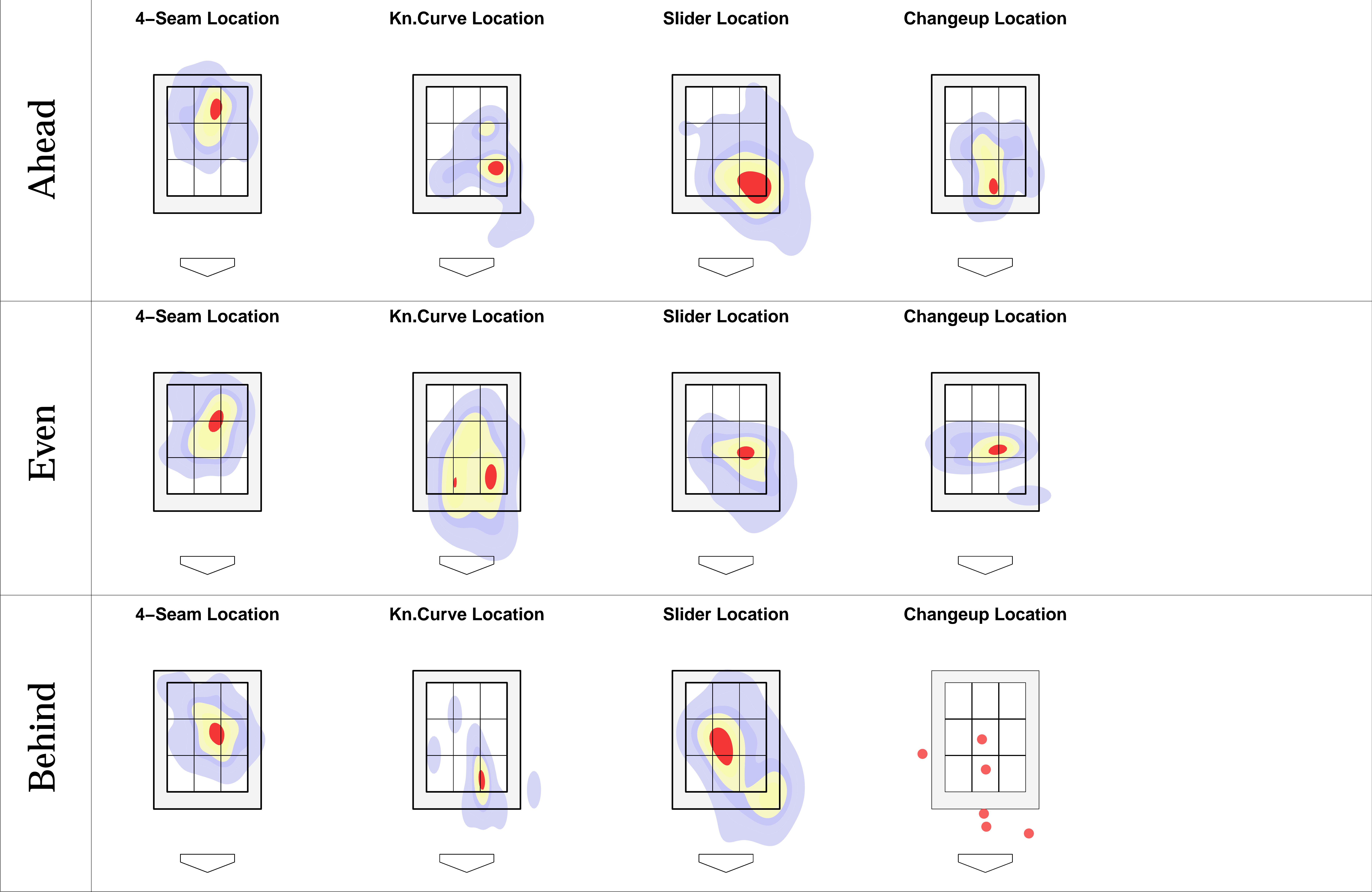
Zac Gallen Situational Results vs RHH								
Pitch	Situation	Usage	Zone %	Heart %	Chase %	Whiff %	BIP %	wOBA
4–Seam	Ahead	41%	46%	23%	21%	14%	37%	.123
	Even	51%	52%	25%	15%	15%	39%	.334
	Behind	58%	59%	31%	16%	6%	47%	.473
Kn.Curve	Ahead	33%	23%	7%	48%	43%	30%	.209
	Even	28%	37%	18%	36%	28%	35%	.212
	Behind	25%	41%	19%	54%	31%	26%	.366
Slider	Ahead	21%	32%	13%	17%	22%	48%	.372
	Even	17%	41%	21%	20%	32%	32%	.277
	Behind	11%	54%	22%	32%	53%	37%	.450
Changeup	Ahead	6%	0%	0%	32%	50%	0%	.175
	Even	4%	33%	5%	21%	22%	44%	.000
	Behind	5%	50%	33%	56%	25%	33%	.556
Total	Ahead	27%	33%	14%	31%	29%	35%	.203
	Even	44%	45%	21%	23%	22%	37%	.270
	Behind	29%	53%	27%	32%	20%	39%	.448

Heliot Ramos Situational Results vs RHP								
Pitch	Situation	Usage	Zone %	Heart %	Chase %	Whiff %	BIP %	wOBA
4–Seam	Ahead	32%	43%	28%	32%	24%	25%	.196
	Even	30%	54%	36%	23%	46%	24%	.232
	Behind	37%	60%	37%	29%	19%	27%	.475
Kn.Curve	Ahead	8%	55%	36%	27%	20%	65%	.231
	Even	7%	51%	27%	41%	26%	41%	.329
	Behind	5%	53%	21%	44%	36%	45%	.533
Slider	Ahead	19%	21%	9%	28%	39%	39%	.293
	Even	22%	42%	28%	24%	31%	37%	.365
	Behind	18%	40%	29%	45%	36%	33%	.328
Changeup	Ahead	4%	50%	25%	12%	22%	22%	.000
	Even	3%	61%	33%	14%	0%	56%	.360
	Behind	3%	17%	17%	40%	83%	17%	.383
Total	Ahead	29%	38%	21%	33%	30%	34%	.210
	Even	44%	51%	29%	25%	30%	36%	.298
	Behind	27%	54%	33%	35%	23%	39%	.412

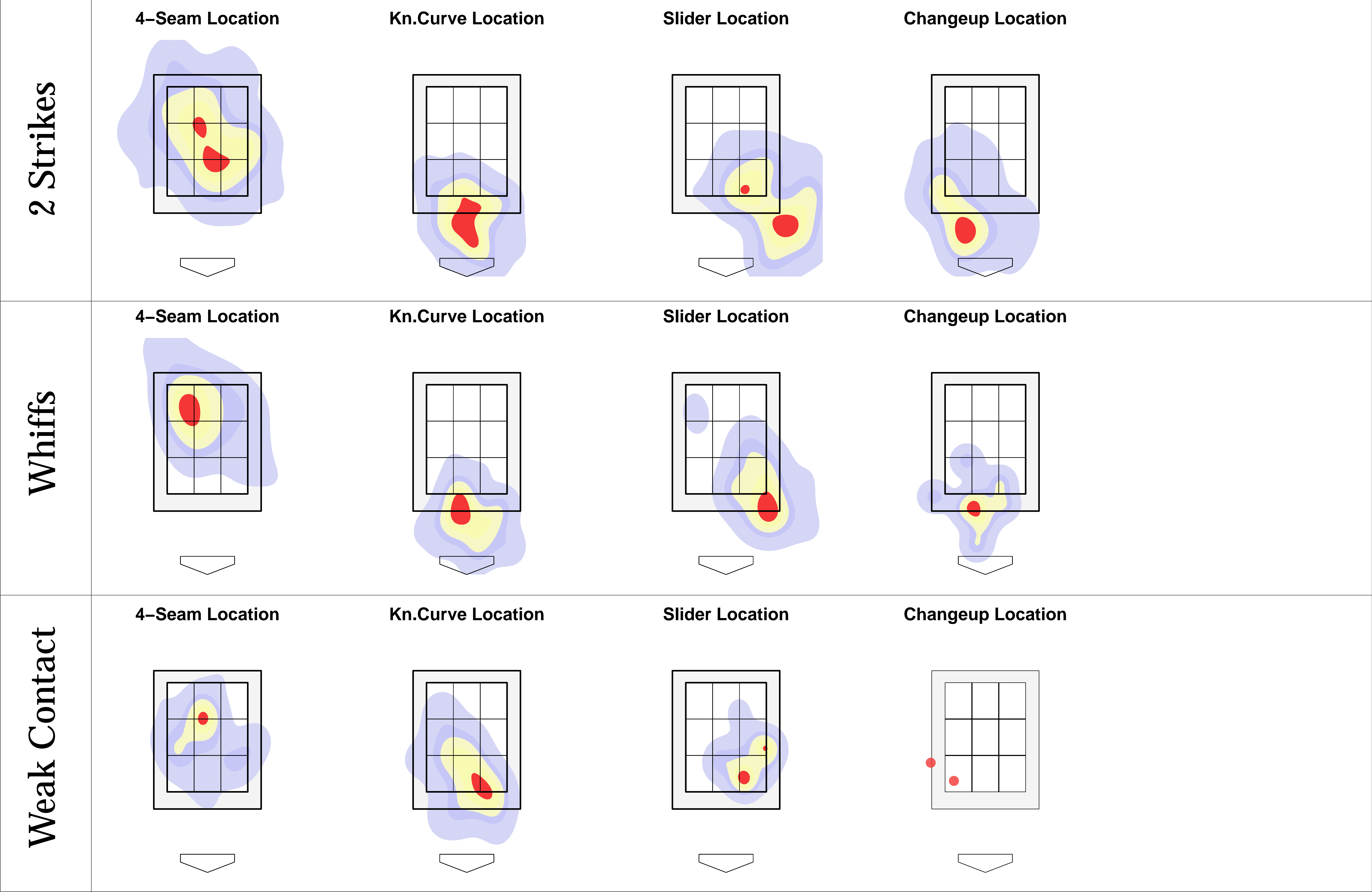
Zac Gallen vs RHH Pitch Location



Heliot Ramos vs RHP Swing Location



Zac Gallen vs RHH Pitch Location



Heliot Ramos vs RHP Swing Location

