

# GATEWAY REGENSBURG

## 2023

### Kenny FERMIN #5

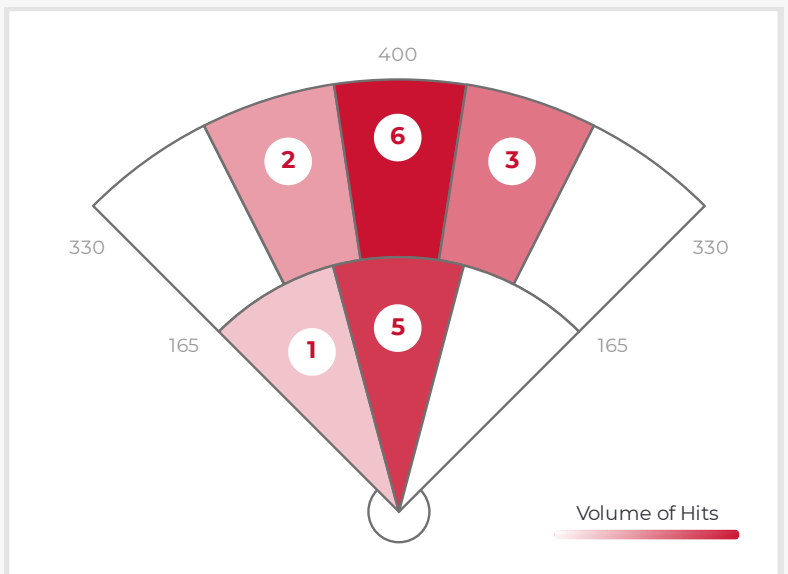
DATA

	AVG	MAX	HARD HIT AVG
E. VELOCITY	82.7	87.7	82.7
L. ANGLE	14.8	39.4	14.8
DIRECTION	0.3°R	26.2°R	0.3°R
DISTANCE	192	299	192
SPIN RATE	1609	3724	1609

BATTING AVG.	.529
XWOBA	.526
SLUGGING	.529
HARD HIT %	100.0%
BOMBS %	23.5%
ROPES %	47.1%

RAPSCORE

**R20**  
PRO  
**R49**  
HIGH SCHOOL



ZONE BREAKDOWN

Zone	Volume of Hits	AVG LA	AVG EV	AVG RPM	AVG Distance
PULL	1/17	35	80	2572	299
MIDDLE	14/17	14	82	1699	186
OPPO	2/17	11	87	501	174

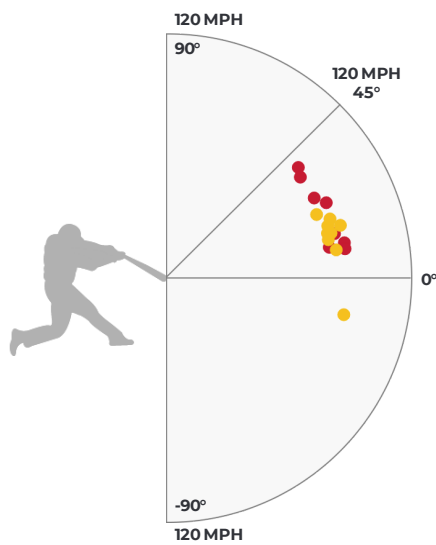
**HIT OUTCOME**

Single	Double	Triple	Homerun	Field Out	Foul Ball
52.9%	0%	0%	0%	47.1%	0%

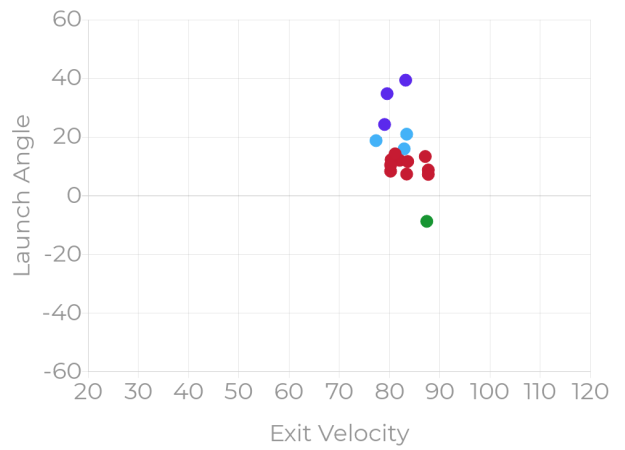
**HIT CLASSIFICATION**

Dribbler	Ground Ball	Low Line Drive	High Line Drive	Fly Ball	Pop Up
5.9%	0%	58.8%	17.6%	17.6%	0%

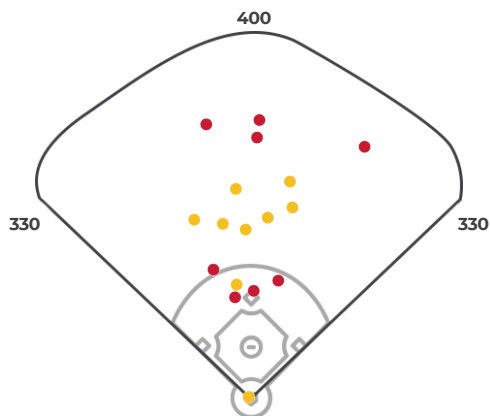
**HIT OUTCOME VS LA & EV**



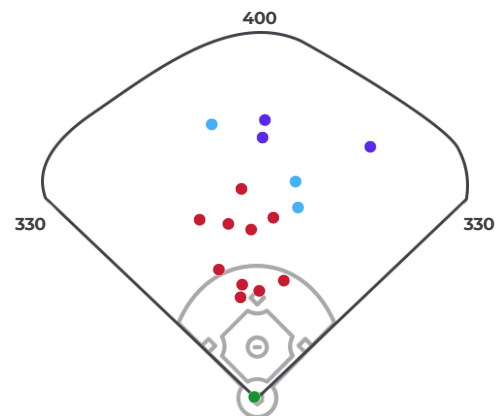
**HIT CLASSIFICATIONS VS LA & EV**



**HIT OUTCOME**



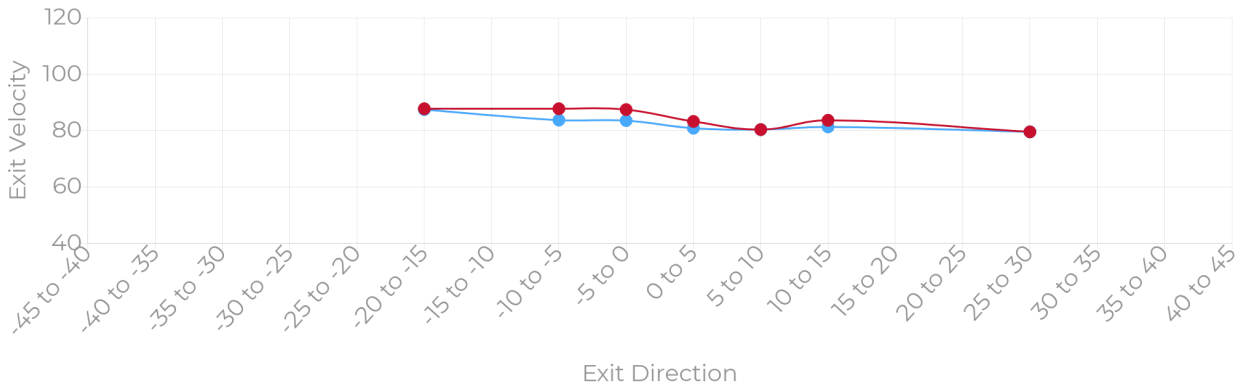
**HIT CLASSIFICATION**



● MAX ● AVG

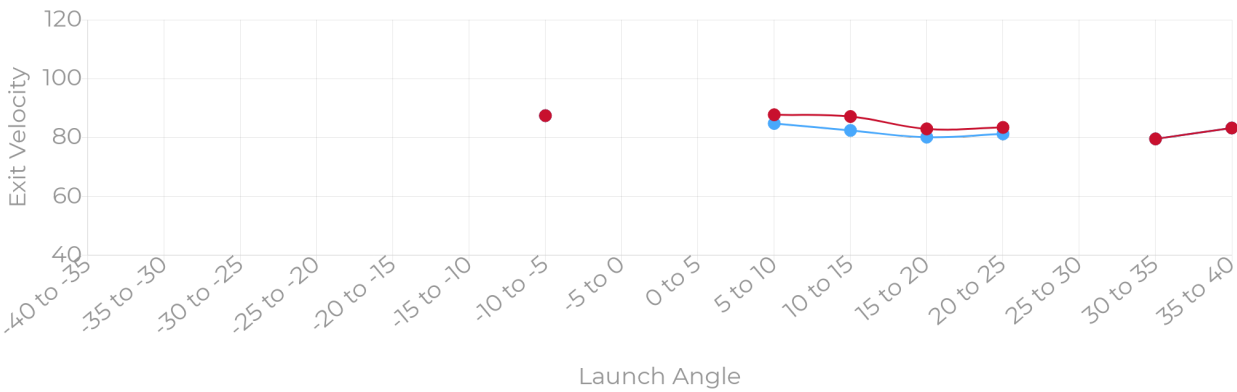
**MAX EV, AVG EV BY EXIT DIRECTION**

*Exit velocities are shown for all balls in play within the listed exit direction ranges.*



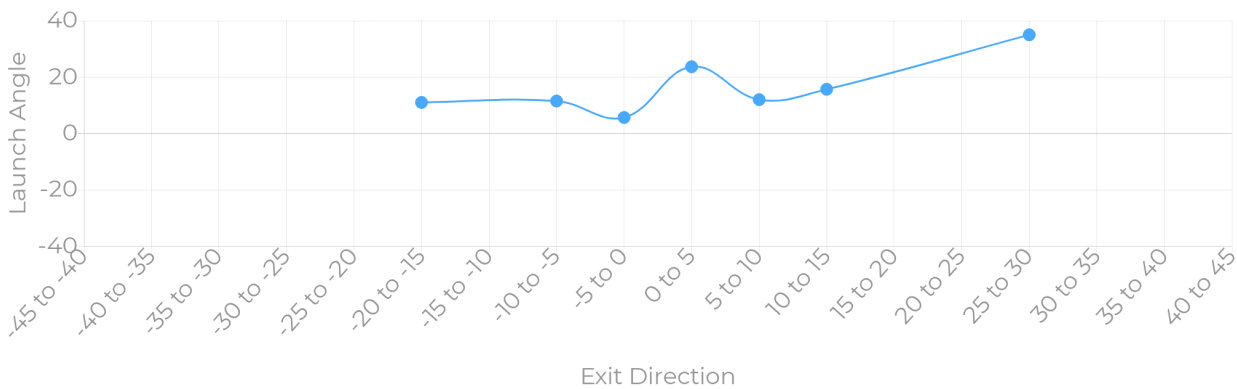
**MAX EV, AVG EV BY LAUNCH ANGLE**

*Exit velocities are shown for all balls in play within the listed launch angle ranges.*



**LAUNCH ANGLE BY EXIT DIRECTION**

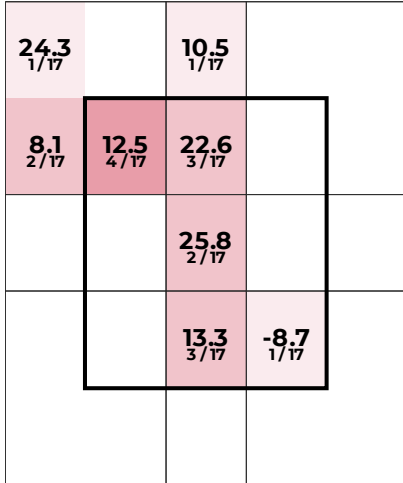
*Average launch angles are shown for all balls in play within the listed exit direction ranges.*



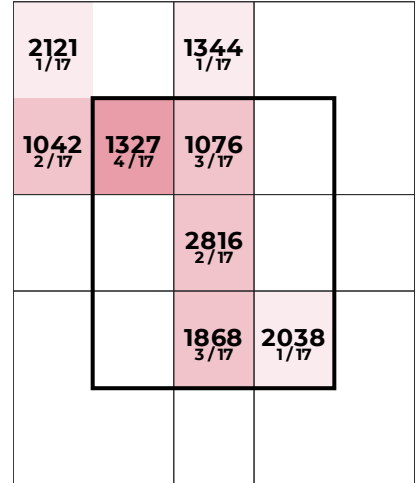
**STRIKE ZONE BREAKDOWN**

**LAUNCH ANGLE**

**SPIN RATE**

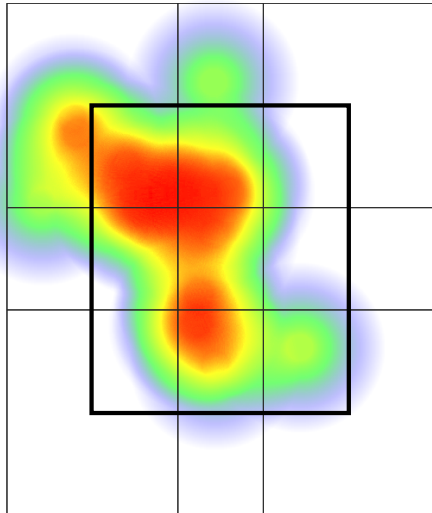


		Avg EV	Avg LA
HORIZONTAL	INNER THIRD	87.4	-8.7
	MIDDLE THIRD	81.4	20.6
	OUTER THIRD	84.6	12.5
VERTICAL	UPPER THIRD	81.9	17.6
	MIDDLE THIRD	82.6	25.8
	LOWER THIRD	84.8	2.3

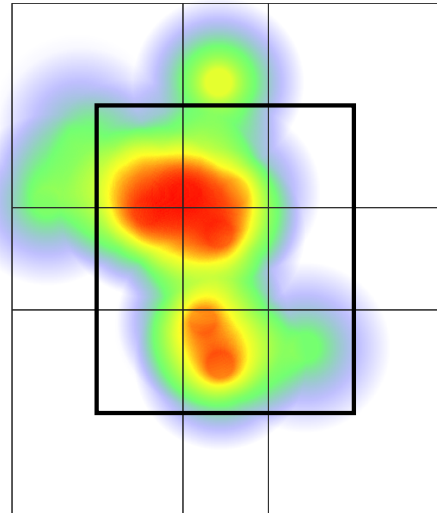


**EXIT VELOCITY**

**XWOBA**



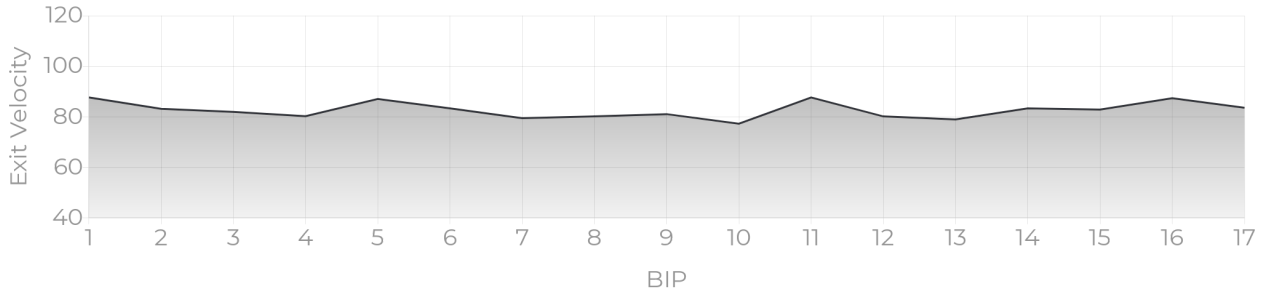
Catcher's POV



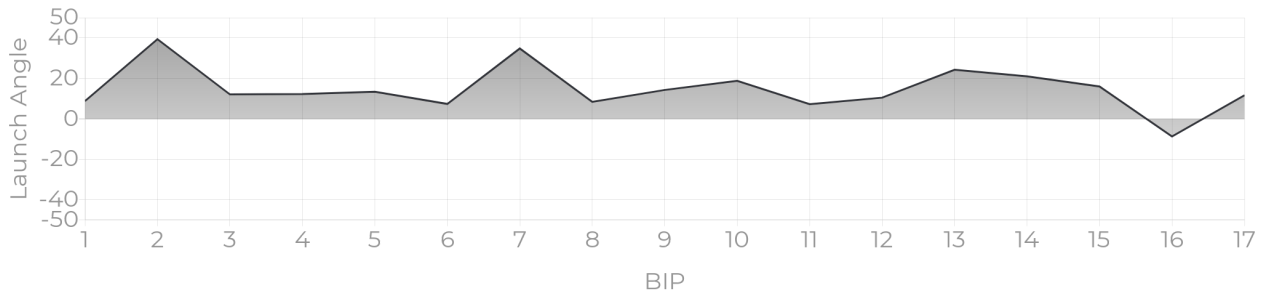
Catcher's POV

**PROGRESS REPORTS**

**EV TRACKER**



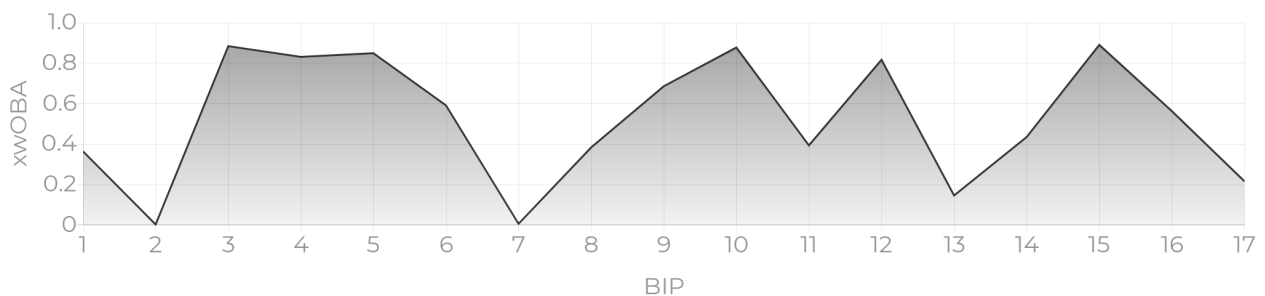
**LA TRACKER**



**DISTANCE TRACKER**



**XWOBA TRACKER**



## XWOBA

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Expected Weighted On Base Average is a term commonly used inside of the MLB taking Launch Angle and Exit Velocity to determine the Expected OBA and often compared to the Actual OBA. This provides a tool for Rapsodo to provide an instant analysis of each BBE (Batted Ball Event). In the same way that each batted ball is assigned a Hit Classification, every batted ball has been given a single, double, triple and home run probability based on the results of comparable batted balls from MLB data — in terms of similar exit velocity and launch angle.

## BIP (BALL IN PLAY)

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Any ball hit within a range of -45 to 45 degree Exit Direction.

## HARD HIT %

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Any ball hit within 12.5% of a player's Max Exit Velo.

## ROPES

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Any Hard Hit Ball (within 12.5% of a player's Max Exit Velo) and hit between 10 and 20 degree Launch Angle.

## BOMBS

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Any Hard Hit Ball (within 12.5% of a player's Max Exit Velo) and Hit with a 20+ Launch Angle.

## HIT CLASSIFICATION

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- Dribbler:** A batted ball event with less than a 0 degree launch angle
- Ground Ball:** A batted ball event with a launch angle between 0 and 6 degrees
- Low Line Drive:** A batted ball event with a launch angle between 6 and 15 degrees
- High Line Drive:** A batted ball event with a launch angle between 15 and 24 degrees
- Fly Ball:** A batted ball event with a launch angle between 24 and 50 degrees
- Pop Up:** A batted ball event with a launch angle greater than 50 degrees