GREAT LAKES BAT CO.

	Interior Cage Height (ft.)																				
Launch Angle (deg.)	**10**	**10.25**	**10.5**	**10.75**	**11**	**11.25**	**11.5**	**11.75**	**12**	**12.25**	**12.5**	**12.75**	**13**	**13.25**	**13.5**	**13.75**	**14**	**14.25**	**14.5**	**14.75**	**15**
15	26.12	27.06	27.99	28.92	29.86	30.79	31.72	32.66	33.59	34.52	35.45	36.39	37.32	38.25	39.19	40.12	41.05	41.99	42.92	43.85	44.78
16	24.41	25.28	26.16	27.03	27.90	28.77	29.64	30.51	31.39	32.26	33.13	34.00	34.87	35.75	36.62	37.49	38.36	39.23	40.11	40.98	41.85
17	22.90	23.71	24.53	25.35	26.17	26.98	27.80	28.62	29.44	30.26	31.07	31.89	32.71	33.53	34.34	35.16	35.98	36.80	37.61	38.43	39.25
18	21.54	22.31	23.08	23.85	24.62	25.39	26.16	26.93	27.70	28.47	29.24	30.01	30.78	31.55	32.32	33.09	33.85	34.62	35.39	36.16	36.93
19	20.33	21.06	21.78	22.51	23.23	23.96	24.69	25.41	26.14	26.86	27.59	28.32	29.04	29.77	30.49	31.22	31.95	32.67	33.40	34.12	34.85
20	19.23	19.92	20.61	21.29	21.98	22.67	23.35	24.04	24.73	25.41	26.10	26.79	27.47	28.16	28.85	29.54	30.22	30.91	31.60	32.28	32.97
21	18.24	18.89	19.54	20.19	20.84	21.49	22.14	22.79	23.45	24.10	24.75	25.40	26.05	26.70	27.35	28.00	28.66	29.31	29.96	30.61	31.26
22	17.33	17.94	18.56	19.18	19.80	20.42	21.04	21.66	22.28	22.89	23.51	24.13	24.75	25.37	25.99	26.61	27.23	27.84	28.46	29.08	29.70
23	16.49	17.08	17.67	18.26	18.85	19.44	20.02	20.61	21.20	21.79	22.38	22.97	23.56	24.15	24.74	25.33	25.91	26.50	27.09	27.68	28.27
24	15.72	16.28	16.85	17.41	17.97	18.53	19.09	19.65	20.21	20.78	21.34	21.90	22.46	23.02	23.58	24.14	24.71	25.27	25.83	26.39	26.95
25	15.01	15.55	16.08	16.62	17.16	17.69	18.23	18.76	19.30	19.84	20.37	20.91	21.45	21.98	22.52	23.05	23.59	24.13	24.66	25.20	25.73
26	14.35	14.86	15.38	15.89	16.40	16.92	17.43	17.94	18.45	18.97	19.48	19.99	20.50	21.02	21.53	22.04	22.55	23.07	23.58	24.09	24.60
27	13.74	14.23	14.72	15.21	15.70	16.19	16.68	17.17	17.66	18.15	18.64	19.14	19.63	20.12	20.61	21.10	21.59	22.08	22.57	23.06	23.55
28	13.17	13.64	14.11	14.58	15.05	15.52	15.99	16.46	16.93	17.40	17.87	18.34	18.81	19.28	19.75	20.22	20.69	21.16	21.63	22.10	22.57
29	12.63	13.08	13.53	13.98	14.43	14.88	15.33	15.79	16.24	16.69	17.14	17.59	18.04	18.49	18.94	19.39	19.84	20.30	20.75	21.20	21.65
30	12.12	12.56	12.99	13.42	13.86	14.29	14.72	15.16	15.59	16.02	16.45	16.89	17.32	17.75	18.19	18.62	19.05	19.49	19.92	20.35	20.78
31	11.65	12.07	12.48	12.90	13.31	13.73	14.15	14.56	14.98	15.39	15.81	16.23	16.64	17.06	17.47	17.89	18.31	18.72	19.14	19.56	19.97
32	11.20	11.60	12.00	12.40	12.80	13.20	13.60	14.00	14.40	14.80	15.20	15.60	16.00	16.40	16.80	17.20	17.60	18.00	18.40	18.80	19.20
33	10.78	11.16	11.55	11.93	12.32	12.70	13.09	13.47	13.86	14.24	14.63	15.01	15.40	15.78	16.17	16.55	16.94	17.32	17.71	18.09	18.48
34	10.38	10.75	11.12	11.49	11.86	12.23	12.60	12.97	13.34	13.71	14.08	14.45	14.83	15.20	15.57	15.94	16.31	16.68	17.05	17.42	17.79
35	10.00	10.35	10.71	11.07	11.43	11.78	12.14	12.50	12.85	13.21	13.57	13.92	14.28	14.64	15.00	15.35	15.71	16.07	16.42	16.78	17.14

The table allows you to cross reference launch angles (y-axis) and the height of your batting cage (x-axis) to determine at what distance from where you are hitting the ball would hit six inches from the top of the cage. The idea behind this is to provide instant launch angle feedback to your hitters, without having to use expensive technology.

One-foot tall banners could be hung from the top of your cage, at the prescribed distances, and you would know what launch angle your players were obtaining. Each banner essentially represents a small launch angle range, but if the banner is only one-foot tall, then the ranges are relatively small. For instance, with a 12-foot tall cage, the largest range would be three degrees (1.5 degrees +/-). When using this for in-cage feedback, that allows you to get good feedback, and get it instantly. This could also be coupled with more affordable technology to measure exit velocity, to allow you to calculate distance.

Make sure to only attach the banners from the top; securing the sides will put undue stress on both the banner and your cage. By only fastening at the top, preferably with an elastic tie to help absorb some of the impact, you will mitigate the stress on both the banner and your cage. The measurements in the table are in feet, and should be done from the anticipated point of contact; it isn't a perfect solution, but should be sufficient to help your players better understand launch angle.