



Launch Angle (Degrees) ¼	Ball Speed (mph)	
	Height +/- 25 (ft)	Carry Distance (Yards)
	Backspin +/- 500rpm	
	Descent +/- 5°	Total Distance (Yards)

Optimal shots can be up to double the range (+/-50ft,+/-1000rpm,+/-10°descent) depending on the launch monitor and for maximizing distance in extreme conditions

Optimal Carry Distance +/- 20 yards depending on altitude, temperature, wind, etc. *Optimal Total Distance +/-20 yards depending on firmness of ground conditions*

	Fast LPGA / PGA Tour / Woman's Long Drive / Fast PGA			
Launch Angle (Degrees) ¼	160	170	180	190
20°+	130 292>312 1300 41° 312>342	140 316>336 1250 42° 336>366	150 340>360 1200 43° 360>390	160 362>382 1150 44° 382>412
19°	126 289>309 1400 40° 309>339	136 313>333 1350 41° 333>363	146 337>357 1300 42° 357>387	156 359>379 1250 43° 379>409
18°	122 286>306 1500 39° 306>336	132 310>330 1450 40° 330>360	142 334>354 1400 41° 354>384	152 356>376 1350 42° 376>406
17°	118 282>302 1600 38° 302>332	128 306>326 1550 39° 326>356	138 330>350 1500 40° 350>380	148 352>372 1450 41° 372>402
16°	114 278>298 1700 37° 298>328	124 302>322 1650 38° 322>352	134 326>346 1600 39° 346>376	144 348>368 1550 40° 368>398
15°	110 274>294 1800 36° 294>324	120 298>318 1750 37° 318>348	130 322>342 1700 38° 342>372	140 344>364 1650 39° 364>394
14°	105 270>290 1900 35° 290>320	115 294>314 1850 36° 314>344	125 318>338 1800 37° 338>368	135 340>360 1750 38° 360>390
13°	100 266>286 2000 34° 286>316	110 290>310 1950 35° 310>340	120 314>334 1900 36° 334>364	130 336>356 1850 37° 356>386
12°	95 262>282 2100 33° 282>312	105 286>306 2050 34° 306>336	115 310>330 2000 35° 330>360	125 332>352 1950 36° 352>382
11°	90 258>278 2200 32° 278>308	100 282>302 2150 33° 302>332	110 306>326 2100 34° 326>356	120 328>348 2050 35° 348>378
10°	84 254>274 2300 31° 275>305	94 278>298 2250 32° 298>328	104 302>322 2200 33° 322>352	114 324>344 2150 34° 344>374
9°	78 250>270 2400 30° 272>302	88 274>294 2350 31° 294>324	98 298>318 2300 32° 318>348	108 320>340 2250 33° 340>370
8°	72 246>266 2500 29° 269>299	82 270>290 2450 30° 291>321	92 294>314 2400 31° 314>344	102 316>336 2350 32° 336>366
7°	66 242>262 2600 28° 266>296	74 266>286 2550 29° 288>318	84 290>310 2500 30° 310>340	94 312>332 2450 31° 332>362
6°	60 238>258 2700 27° 263>293	66 262>282 2650 28° 285>315	76 286>306 2600 29° 306>336	86 308>328 2550 30° 328>358
5°	52 234>254 2800 25° 260>290	58 258>278 2750 26° 282>312	68 282>302 2700 27° 303>333	78 304>324 2650 28° 325>355
4°	44 228>248 2900 22° 258>288	50 252>272 2850 23° 280>310	60 276>296 2800 24° 300>330	70 298>318 2750 25° 322>352
3°	36 222>242 3000 19° 256>286	42 246>266 2950 20° 278>308	52 268>288 2900 21° 298>328	62 290>310 2850 22° 320>350
2°	28 216>236 3100 16° 254>284	43 238>258 3050 17° 276>306	44 258>278 3000 18° 296>326	54 280>300 2950 19° 318>348
1°	20 210>230 3200 13° 252>282	26 230>250 3150 14° 274>304	36 248>268 3100 15° 294>324	46 270>290 3050 16° 316>346
0.1°	12 204>224 3300 10° 250>280	18 222>242 3250 11° 272>302	28 238>258 3200 12° 292>322	38 260>280 3150 13° 314>344