Model Information	on
Data Set	WORK.KOBE
Response Variable	shot_made_flag
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	25697
Number of Observations Used	25697

	Response Profile	
Ordered Value	shot_made_flag	Total Frequency
1	1	11465
2	0	14232

Probability modeled is shot_made_flag='1'.

							C	Class	Leve	el Inf	orma	tion														
Class	Value											D	esig	n Vai	riable	:S										
action_type	Alley Oop Dunk Sh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alley Oop Layup s	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cutting Layup Sho	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Bank shot	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Dunk Shot	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Finger Ro	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Floating	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Hook Shot	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Jump shot	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Layup Sho	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Reverse L	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Driving Slam Dunk	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dunk Shot	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Fadeaway Bank sho	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Fadeaway Jump Sho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Finger Roll Layup	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Finger Roll Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Floating Jump sho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Follow Up Dunk Sh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Hook Bank Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Hook Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Jump Bank Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Jump Hook Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Jump Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Layup Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

										Cla	ass L	.evel	Info	mati	on										
											Des	ign \	/aria	bles											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

							C	lass	Leve	el Info	orma	tion														
Class	Value											D	esigı	n Vai	riable	:S										
	Pullup Bank shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pullup Jump shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Putback Dunk Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Putback Layup Sho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Putback Slam Dunk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Reverse Dunk Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Reverse Layup Sho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Reverse Slam Dunk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Bank shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Dunk Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Finger Ro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Hook Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Jump Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Layup Sho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Pull-Up J	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Reverse L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Slam Dunk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Running Tip Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Slam Dunk Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Step Back Jump sh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tip Layup Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tip Shot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Turnaround Bank s	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Turnaround Fadeaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

										Cla	ass L	.evel	Infor	mati	on										
											Des	ign \	/arial	bles											
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

							C	Class	Leve	el Inf	orma	tion														
Class	Value											D	esig	n Va	riable	es										
	Turnaround Finger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Turnaround Hook S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Turnaround Jump S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
period	1	1	0	0	0	0	0																			
	2	0	1	0	0	0	0																			
	3	0	0	1	0	0	0																			
	4	0	0	0	1	0	0																			
	5	0	0	0	0	1	0																			
	6	0	0	0	0	0	1																			
	7	-1	-1	-1	-1	-1	-1																			
shot_zone_area	Back Court(BC)	1	0	0	0	0																				
	Center(C)	0	1	0	0	0																				
	Left Side Center(LC)	0	0	1	0	0																				
	Left Side(L)	0	0	0	1	0																				
	Right Side Center(RC)	0	0	0	0	1																				
	Right Side(R)	-1	-1	-1	-1	-1																				
shot_zone_basic	Above the Break 3	1	0	0	0	0	0																			
	Backcourt	0	1	0	0	0	0																			
	In The Paint (Non-RA)	0	0	1	0	0	0																			
	Left Corner 3	0	0	0	1	0	0																			
	Mid-Range	0	0	0	0	1	0																			
	Restricted Area	0	0	0	0	0	1																			
	Right Corner 3	-1	-1	-1	-1	-1	-1																			
shot_zone_range	16-24 ft.	1	0	0	0																					
	24+ ft.	0	1	0	0																					
	8-16 ft.	0	0	1	0																					
	Back Court Shot	0	0	0	1																					
	Less Than 8 ft.	-1	-1	-1	-1																					

										Cla	ass L	.evel	Info	mati	on										
											Des	ign \	/aria	bles											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

Model Convergence Status

Quasi-complete separation of data points detected.

Warning: The maximum likelihood estimate may not exist.

Warning: The LOGISTIC procedure continues in spite of the above warning. Results shown are based on the last maximum likelihood iteration. Validity of the model fit is questionable.

Мс	odel Fit Statis	stics
Criterion	Intercept Only	Intercept and Covariates
AIC	35327.083	31103.802
sc	35335.237	31723.516
-2 Log L	35325.083	30951.802

Testing Glob	al Null Hypoth	esis:	BETA=0
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	4373.2810	75	<.0001
Score	4032.9767	75	<.0001
Wald	2998.6343	75	<.0001

Type 3	Analy	sis of Effects	
Effect	DF	Wald Chi-Square	Pr > ChiSq
action_type	51	2206.7239	<.0001
period	6	23.1797	0.0007
minutes_remaining	1	13.7986	0.0002
seconds_remaining	1	18.8664	<.0001
shot_zone_area	5	36.6999	<.0001
shot_zone_basic	6	22.5584	0.0010
shot_zone_range	2	42.0992	<.0001
game_date	1	19.8546	<.0001
attendance	1	188.4634	<.0001
arena_temp	1	26.1973	<.0001

Note: The following parameters have been set to 0, since the variables are a linear combination of other variables as shown.

shot_zone_range8-16 ft. =	-0.78571 * Intercept + 2.5 * shot_zone_aBack Court(BC) - 0.5 * shot_zone_aCenter(C) - 0.5 * shot_zone_aLeft Side Center(LC) - 0.5 * shot_zone_aLeft Side(L) - 0.5 * shot_zone_aRight Side Center(RC) - 1.71429 * shot_zone_bAbove the Break 3 - 1.71429 * shot_zone_bBackcourt + 2.28571 * shot_zone_bIn The Paint (Non-RA) - 1.71429 * shot_zone_bLeft Corner 3 + 2.28571 * shot_zone_bMid-Range + 2.28571 * shot_zone_bRestricted Area - shot_zone_range16-24 ft. + 3 * shot_zone_range24+ ft.
shot_zone_rangeBack Court Shot =	- 0.2381 * Intercept + 1.66667 * shot_zone_aBack Court(BC) - 0.33333 * shot_zone_aCenter(C) - 0.33333 * shot_zone_aLeft Side Center(LC) - 0.33333 * shot_zone_aLeft Side(L) - 0.33333 * shot_zone_aRight Side Center(RC) - 0.42857 * shot_zone_bAbove the Break 3 - 0.42857 * shot_zone_bBackcourt + 0.57143 * shot_zone_bIn The Paint (Non-RA) - 0.42857 * shot_zone_bLeft Corner 3 + 0.57143 * shot_zone_bMid-Range + 0.57143 * shot_zone_bRestricted Area + shot_zone_range24+ ft.

Analysis of Maximum Likelihood Estimates									
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq			
Intercept		1	-3.7186	14.7329	0.0637	0.8007			
action_type	Alley Oop Dunk Sh	1	1.2667	14.4140	0.0077	0.9300			
action_type	Alley Oop Layup s	1	-0.7523	14.4094	0.0027	0.9584			
action_type	Cutting Layup Sho	1	-0.6506	14.4322	0.0020	0.9640			
action_type	Driving Bank shot	1	-0.7338	14.4586	0.0026	0.9595			
action_type	Driving Dunk Shot	1	2.0869	14.4126	0.0210	0.8849			
action_type	Driving Finger Ro	1	0.2502	14.4092	0.0003	0.9861			
action_type	Driving Floating	1	-1.2572	14.4417	0.0076	0.9306			
action_type	Driving Hook Shot	1	-0.9857	14.4179	0.0047	0.9455			
action_type	Driving Jump shot	1	-1.7863	14.4129	0.0154	0.9014			
action_type	Driving Layup Sho	1	-0.5856	14.4070	0.0017	0.9676			
action_type	Driving Reverse L	1	-0.4387	14.4091	0.0009	0.9757			
action_type	Driving Slam Dunk	1	2.2043	14.4411	0.0233	0.8787			
action_type	Dunk Shot	1	-0.4057	14.4078	0.0008	0.9775			
action_type	Fadeaway Bank sho	1	0.6363	14.4196	0.0019	0.9648			
action_type	Fadeaway Jump Sho	1	-1.3176	14.4072	0.0084	0.9271			
action_type	Finger Roll Layup	1	-0.0427	14.4151	0.0000	0.9976			
action_type	Finger Roll Shot	1	-1.7217	14.4121	0.0143	0.9049			
action_type	Floating Jump sho	1	-0.5425	14.4088	0.0014	0.9700			
action_type	Follow Up Dunk Sh	1	0.5965	14.4440	0.0017	0.9671			
action_type	Hook Bank Shot	1	10.7030	197.0	0.0030	0.9567			
action_type	Hook Shot	1	-2.0952	14.4089	0.0211	0.8844			
action_type	Jump Bank Shot	1	-0.2741	14.4077	0.0004	0.9848			
action_type	Jump Hook Shot	1	-0.4696	14.4160	0.0011	0.9740			
action_type	Jump Shot	1	-2.4466	14.4070	0.0288	0.8652			
action_type	Layup Shot	1	-2.0958	14.4070	0.0212	0.8843			
action_type	Pullup Bank shot	1	-1.2913	14.4195	0.0080	0.9286			
action_type	Pullup Jump shot	1	-0.6719	14.4074	0.0022	0.9628			
action_type	Putback Dunk Shot	1	-1.0260	14.4578	0.0050	0.9434			
action_type	Putback Layup Sho	1	-0.7234	14.4237	0.0025	0.9600			
action_type	Putback Slam Dunk	1	-1.6647	14.4735	0.0132	0.9084			
action_type	Reverse Dunk Shot	1	0.7569	14.4142	0.0028	0.9581			
action_type	Reverse Layup Sho	1	-1.0844	14.4073	0.0057	0.9400			
action_type	Reverse Slam Dunk	1	10.6332	114.7	0.0086	0.9261			

Analysis of Maximum Likelihood Estimates									
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq			
action_type	Running Bank shot	1	0.2078	14.4127	0.0002	0.9885			
action_type	Running Dunk Shot	1	0.4751	14.4258	0.0011	0.9737			
action_type	Running Finger Ro	1	-1.8065	14.4220	0.0157	0.9003			
action_type	Running Hook Shot	1	0.4551	14.4165	0.0010	0.9748			
action_type	Running Jump Shot	1	-0.5140	14.4072	0.0013	0.9715			
action_type	Running Layup Sho	1	-0.7189	14.4101	0.0025	0.9602			
action_type	Running Pull-Up J	1	-0.8701	14.4573	0.0036	0.9520			
action_type	Running Reverse L	1	-1.2741	14.4267	0.0078	0.9296			
action_type	Running Slam Dunk	1	10.4737	442.5	0.0006	0.9811			
action_type	Running Tip Shot	1	-13.9449	441.9	0.0010	0.9748			
action_type	Slam Dunk Shot	1	2.3141	14.4126	0.0258	0.8724			
action_type	Step Back Jump sh	1	-1.1143	14.4084	0.0060	0.9384			
action_type	Tip Layup Shot	1	-1.6274	14.4746	0.0126	0.9105			
action_type	Tip Shot	1	-2.2985	14.4079	0.0255	0.8733			
action_type	Turnaround Bank s	1	-0.0874	14.4105	0.0000	0.9952			
action_type	Turnaround Fadeaw	1	-1.2102	14.4074	0.0071	0.9331			
action_type	Turnaround Finger	1	10.2887	312.4	0.0011	0.9737			
action_type	Turnaround Hook S	1	-1.5760	14.4240	0.0119	0.9130			
period	1	1	0.1045	0.1343	0.6057	0.4364			
period	2	1	0.0567	0.1345	0.1777	0.6734			
period	3	1	0.0379	0.1343	0.0799	0.7775			
period	4	1	-0.0782	0.1345	0.3385	0.5607			
period	5	1	0.0204	0.1734	0.0138	0.9064			
period	6	1	-0.1700	0.3708	0.2101	0.6467			
minutes_remaining		1	0.0150	0.00405	13.7986	0.0002			
seconds_remaining		1	0.00341	0.000784	18.8664	<.0001			
shot_zone_area	Back Court(BC)	1	-9.4226	106.1	0.0079	0.9292			
shot_zone_area	Center(C)	1	1.9895	21.2194	0.0088	0.9253			
shot_zone_area	Left Side Center(LC)	1	1.9311	21.2194	0.0083	0.9275			
shot_zone_area	Left Side(L)	1	1.6881	21.2195	0.0063	0.9366			
shot_zone_area	Right Side Center(RC)	1	2.0308	21.2194	0.0092	0.9238			
shot_zone_basic	Above the Break 3	1	-1.5021	18.1888	0.0068	0.9342			
shot_zone_basic	Backcourt	1	6.8411	109.1	0.0039	0.9500			
shot_zone_basic	In The Paint (Non-RA)	1	-1.0751	18.1888	0.0035	0.9529			

Analysis of Maximum Likelihood Estimates									
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq			
shot_zone_basic	Left Corner 3	1	-0.9640	18.1891	0.0028	0.9577			
shot_zone_basic	Mid-Range	1	-1.1631	18.1888	0.0041	0.9490			
shot_zone_basic	Restricted Area	1	-0.8793	18.1892	0.0023	0.9614			
shot_zone_range	16-24 ft.	1	0.1346	0.0534	6.3592	0.0117			
shot_zone_range	24+ ft.	1	0.2978	0.0953	9.7558	0.0018			
shot_zone_range	8-16 ft.	0	0						
shot_zone_range	Back Court Shot	0	0						
game_date		1	-0.00004	8.32E-6	19.8546	<.0001			
attendance		1	0.000177	0.000013	188.4634	<.0001			
arena_temp		1	0.0347	0.00678	26.1973	<.0001			

	Odds Ratio Estimates			
Effect		Point Estimate	95% Confiden	Wald ice Limits
action_type	Alley Oop Dunk Sh vs Turnaround Jump S	12.301	4.786	31.618
action_type	Alley Oop Layup s vs Turnaround Jump S	1.633	0.895	2.982
action_type	Cutting Layup Sho vs Turnaround Jump S	1.808	0.321	10.187
action_type	Driving Bank shot vs Turnaround Jump S	1.664	0.144	19.247
action_type	Driving Dunk Shot vs Turnaround Jump S	27.935	11.850	65.855
action_type	Driving Finger Ro vs Turnaround Jump S	4.451	2.495	7.941
action_type	Driving Floating vs Turnaround Jump S	0.986	0.133	7.322
action_type	Driving Hook Shot vs Turnaround Jump S	1.293	0.412	4.057
action_type	Driving Jump shot vs Turnaround Jump S	0.581	0.248	1.358
action_type	Driving Layup Sho vs Turnaround Jump S	1.930	1.431	2.603
action_type	Driving Reverse L vs Turnaround Jump S	2.235	1.262	3.957
action_type	Driving Slam Dunk vs Turnaround Jump S	31.414	4.235	233.028
action_type	Dunk Shot vs Turnaround Jump S	2.310	1.507	3.541
action_type	Fadeaway Bank sho vs Turnaround Jump S	6.549	1.946	22.034
action_type	Fadeaway Jump Sho vs Turnaround Jump S	0.928	0.766	1.125
action_type	Finger Roll Layup vs Turnaround Jump S	3.321	1.217	9.064
action_type	Finger Roll Shot vs Turnaround Jump S	0.620	0.276	1.389
action_type	Floating Jump sho vs Turnaround Jump S	2.015	1.246	3.258
action_type	Follow Up Dunk Sh vs Turnaround Jump S	6.293	0.781	50.735
action_type	Hook Bank Shot vs Turnaround Jump S	>999.999	<0.001	>999.999
action_type	Hook Shot vs Turnaround Jump S	0.426	0.257	0.707

Odds Ratio Estimates							
Effect		Point Estimate		Wald ice Limits			
action_type	Jump Bank Shot vs Turnaround Jump S	2.635	1.931	3.596			
action_type	Jump Hook Shot vs Turnaround Jump S	2.167	0.768	6.119			
action_type	Jump Shot vs Turnaround Jump S	0.300	0.260	0.346			
action_type	Layup Shot vs Turnaround Jump S	0.426	0.318	0.571			
action_type	Pullup Bank shot vs Turnaround Jump S	0.953	0.285	3.182			
action_type	Pullup Jump shot vs Turnaround Jump S	1.770	1.362	2.300			
action_type	Putback Dunk Shot vs Turnaround Jump S	1.242	0.108	14.224			
action_type	Putback Layup Sho vs Turnaround Jump S	1.681	0.407	6.949			
action_type	Putback Slam Dunk vs Turnaround Jump S	0.656	0.040	10.642			
action_type	Reverse Dunk Shot vs Turnaround Jump S	7.388	2.833	19.270			
action_type	Reverse Layup Sho vs Turnaround Jump S	1.172	0.819	1.677			
action_type	Reverse Slam Dunk vs Turnaround Jump S	>999.999	<0.001	>999.999			
action_type	Running Bank shot vs Turnaround Jump S	4.266	1.866	9.754			
action_type	Running Dunk Shot vs Turnaround Jump S	5.574	1.240	25.046			
action_type	Running Finger Ro vs Turnaround Jump S	0.569	0.149	2.176			
action_type	Running Hook Shot vs Turnaround Jump S	5.463	1.893	15.770			
action_type	Running Jump Shot vs Turnaround Jump S	2.073	1.669	2.575			
action_type	Running Layup Sho vs Turnaround Jump S	1.689	0.871	3.273			
action_type	Running Pull-Up J vs Turnaround Jump S	1.452	0.130	16.201			
action_type	Running Reverse L vs Turnaround Jump S	0.969	0.209	4.502			
action_type	Running Slam Dunk vs Turnaround Jump S	>999.999	<0.001	>999.999			
action_type	Running Tip Shot vs Turnaround Jump S	<0.001	<0.001	>999.999			
action_type	Slam Dunk Shot vs Turnaround Jump S	35.061	14.899	82.506			
action_type	Step Back Jump sh vs Turnaround Jump S	1.137	0.745	1.735			
action_type	Tip Layup Shot vs Turnaround Jump S	0.681	0.041	11.291			
action_type	Tip Shot vs Turnaround Jump S	0.348	0.224	0.540			
action_type	Turnaround Bank s vs Turnaround Jump S	3.176	1.651	6.109			
action_type	Turnaround Fadeaw vs Turnaround Jump S	1.033	0.804	1.329			
action_type	Turnaround Finger vs Turnaround Jump S	>999.999	<0.001	>999.999			
action_type	Turnaround Hook S vs Turnaround Jump S	0.717	0.176	2.925			
period	1 vs 7	1.079	0.217	5.356			
period	2 vs 7	1.028	0.207	5.107			
period	3 vs 7	1.009	0.203	5.011			
period	4 vs 7	0.899	0.181	4.462			

Odds Ratio Estimates							
Effect	Point Estimate						
period 5 vs 7	0.992	0.196	5.021				
period 6 vs 7	0.820	0.137	4.918				
minutes_remaining	1.015	1.007	1.023				
seconds_remaining	1.003	1.002	1.005				
shot_zone_area Back Court(BC) vs Right Side(R)	<0.001	<0.001	>999.999				
shot_zone_area Center(C) vs Right Side(R)	1.229	1.098	1.376				
shot_zone_area	1.159	1.025	1.311				
shot_zone_area Left Side(L) vs Right Side(R)	0.909	0.817	1.012				
shot_zone_area Right Side Center(RC) vs Right Side(R)	1.281	1.138	1.442				
shot_zone_basic Above the Break 3 vs Right Corner 3	0.783	0.604	1.015				
shot_zone_basic Backcourt vs Right Corner 3	>999.999	<0.001	>999.999				
shot_zone_basic In The Paint (Non-RA) vs Right Corner 3	1.200	0.856	1.682				
shot_zone_basic Left Corner 3 vs Right Corner 3	1.341	0.930	1.935				
shot_zone_basic Mid-Range vs Right Corner 3	1.099	0.794	1.522				
shot_zone_basic Restricted Area vs Right Corner 3	1.460	0.938	2.272				
shot_zone_range 16-24 ft. vs Less Than 8 ft.	1.763	1.482	2.097				
shot_zone_range 24+ ft. vs Less Than 8 ft.	2.076	1.508	2.857				
game_date	1.000	1.000	1.000				
attendance	1.000	1.000	1.000				
arena_temp	1.035	1.022	1.049				

Association of Predicted Probabilities and Observed Responses								
Percent Concordant	Percent Concordant 71.2 Somers' D 0.423							
Percent Discordant	28.8	Gamma	0.423					
Percent Tied	0.0	Tau-a	0.209					
Pairs	163169880	С	0.712					

Partition for the Hosmer and Lemeshow Test									
		shot_mad	e_flag = 1	shot_mad	e_flag = 0				
Group	Total	Observed	Observed Expected		Expected				
1	2570	619	594.19	1951	1975.81				
2	2570	702	720.79	1868	1849.21				
3	2570	765	789.23	1805	1780.77				
4	2570	851	850.57	1719	1719.43				

Partition for the Hosmer and Lemeshow Test									
		shot_mad	e_flag = 1	shot_mad	e_flag = 0				
Group	Total	Observed	Expected	Observed	Expected				
5	2570	936	914.55	1634	1655.45				
6	2570	1004	988.21	1566	1581.79				
7	2570	1078	1104.60	1492	1465.40				
8	2570	1470	1463.31	1100	1106.69				
9	2570	1828	1834.10	742	735.90				
10	2567	2212	2205.45	355	361.55				

Hosmer and Lemeshow Goodness-of-Fit Test						
Chi-Square	DF	Pr > ChiSq				
5.6971	8	0.6811				

	Classification Table									
	Coi	rrect	Inco	rrect		Percentages				
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	False POS	False NEG	
0.000	11465	0	14232	0	44.6	100.0	0.0	55.4		
0.020	11464	67	14165	1	44.9	100.0	0.5	55.3	1.5	
0.040	11464	70	14162	1	44.9	100.0	0.5	55.3	1.4	
0.060	11464	70	14162	1	44.9	100.0	0.5	55.3	1.4	
0.080	11464	71	14161	1	44.9	100.0	0.5	55.3	1.4	
0.100	11464	72	14160	1	44.9	100.0	0.5	55.3	1.4	
0.120	11464	72	14160	1	44.9	100.0	0.5	55.3	1.4	
0.140	11463	73	14159	2	44.9	100.0	0.5	55.3	2.7	
0.160	11463	78	14154	2	44.9	100.0	0.5	55.3	2.5	
0.180	11458	103	14129	7	45.0	99.9	0.7	55.2	6.4	
0.200	11434	197	14035	31	45.3	99.7	1.4	55.1	13.6	
0.220	11368	463	13769	97	46.0	99.2	3.3	54.8	17.3	
0.240	11191	961	13271	274	47.3	97.6	6.8	54.3	22.2	
0.260	10902	1716	12516	563	49.1	95.1	12.1	53.4	24.7	
0.280	10510	2802	11430	955	51.8	91.7	19.7	52.1	25.4	
0.300	9961	4195	10037	1504	55.1	86.9	29.5	50.2	26.4	
0.320	9309	5661	8571	2156	58.3	81.2	39.8	47.9	27.6	
0.340	8602	7101	7131	2863	61.1	75.0	49.9	45.3	28.7	
0.360	7893	8393	5839	3572	63.4	68.8	59.0	42.5	29.9	

Classification Table									
	Correct		Incorrect		Percentages				
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	False POS	False NEG
0.380	7196	9542	4690	4269	65.1	62.8	67.0	39.5	30.9
0.400	6608	10445	3787	4857	66.4	57.6	73.4	36.4	31.7
0.420	6164	11084	3148	5301	67.1	53.8	77.9	33.8	32.4
0.440	5814	11582	2650	5651	67.7	50.7	81.4	31.3	32.8
0.460	5595	11895	2337	5870	68.1	48.8	83.6	29.5	33.0
0.480	5426	12086	2146	6039	68.1	47.3	84.9	28.3	33.3
0.500	5302	12230	2002	6163	68.2	46.2	85.9	27.4	33.5
0.520	5188	12319	1913	6277	68.1	45.3	86.6	26.9	33.8
0.540	5083	12435	1797	6382	68.2	44.3	87.4	26.1	33.9
0.560	4955	12547	1685	6510	68.1	43.2	88.2	25.4	34.2
0.580	4772	12660	1572	6693	67.8	41.6	89.0	24.8	34.6
0.600	4590	12803	1429	6875	67.7	40.0	90.0	23.7	34.9
0.620	4390	12906	1326	7075	67.3	38.3	90.7	23.2	35.4
0.640	4184	13014	1218	7281	66.9	36.5	91.4	22.5	35.9
0.660	3963	13130	1102	7502	66.5	34.6	92.3	21.8	36.4
0.680	3704	13258	974	7761	66.0	32.3	93.2	20.8	36.9
0.700	3391	13389	843	8074	65.3	29.6	94.1	19.9	37.6
0.720	3057	13521	711	8408	64.5	26.7	95.0	18.9	38.3
0.740	2661	13669	563	8804	63.5	23.2	96.0	17.5	39.2
0.760	2232	13839	393	9233	62.5	19.5	97.2	15.0	40.0
0.780	1815	13977	255	9650	61.5	15.8	98.2	12.3	40.8
0.800	1476	14070	162	9989	60.5	12.9	98.9	9.9	41.5
0.820	1226	14135	97	10239	59.8	10.7	99.3	7.3	42.0
0.840	1052	14159	73	10413	59.2	9.2	99.5	6.5	42.4
0.860	961	14170	62	10504	58.9	8.4	99.6	6.1	42.6
0.880	878	14186	46	10587	58.6	7.7	99.7	5.0	42.7
0.900	821	14194	38	10644	58.4	7.2	99.7	4.4	42.9
0.920	766	14203	29	10699	58.3	6.7	99.8	3.6	43.0
0.940	712	14211	21	10753	58.1	6.2	99.9	2.9	43.1
0.960	650	14215	17	10815	57.8	5.7	99.9	2.5	43.2
0.980	350	14221	11	11115	56.7	3.1	99.9	3.0	43.9
1.000	0	14232	0	11465	55.4	0.0	100.0		44.6