

Obs	recid	action_type	combined_shot_type	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period
1	1	Jump Shot	Jump Shot	12	20000012	34.0443	-157	0	-118.4268	10	1
2	2	Jump Shot	Jump Shot	35	20000012	33.9093	-101	135	-118.3708	7	1
3	3	Jump Shot	Jump Shot	43	20000012	33.8693	138	175	-118.1318	6	1
4	4	Driving Dunk Shot	Dunk	155	20000012	34.0443	0	0	-118.2698	6	2
5	5	Jump Shot	Jump Shot	244	20000012	34.0553	-145	-11	-118.4148	9	3
6	6	Layup Shot	Layup	251	20000012	34.0443	0	0	-118.2698	8	3
7	7	Jump Shot	Jump Shot	265	20000012	33.9363	-65	108	-118.3348	6	3
8	8	Running Jump Shot	Jump Shot	294	20000012	33.9193	-33	125	-118.3028	3	3
9	9	Jump Shot	Jump Shot	309	20000012	33.8063	-94	238	-118.3638	1	3
10	12	Jump Shot	Jump Shot	4	20000019	33.9173	121	127	-118.1488	11	1

Obs	playoffs	season	seconds_remaining	shot_distance	shot_made_flag	shot_type	shot_zone_area	shot_zone_basic
1	0	2000-01	22	15	0	2PT Field Goal	Left Side(L)	Mid-Range
2	0	2000-01	45	16	1	2PT Field Goal	Left Side Center(LC)	Mid-Range
3	0	2000-01	52	22	0	2PT Field Goal	Right Side Center(RC)	Mid-Range
4	0	2000-01	19	0	1	2PT Field Goal	Center(C)	Restricted Area
5	0	2000-01	32	14	0	2PT Field Goal	Left Side(L)	Mid-Range
6	0	2000-01	52	0	1	2PT Field Goal	Center(C)	Restricted Area
7	0	2000-01	12	12	1	2PT Field Goal	Left Side(L)	In The Paint (Non-RA)
8	0	2000-01	36	12	0	2PT Field Goal	Center(C)	In The Paint (Non-RA)
9	0	2000-01	56	25	0	3PT Field Goal	Left Side Center(LC)	Above the Break 3
10	0	2000-01	0	17	1	2PT Field Goal	Right Side Center(RC)	Mid-Range

Obs	shot_zone_range	team_id	team_name	game_date	matchup	opponent	shot_id	attendance	arena_temp	avgnoisedb
1	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	2	14707	69	94.06
2	16-24 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	3	14707	69	94.06
3	16-24 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	4	14707	69	94.06
4	Less Than 8 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	5	14707	69	94.06
5	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	6	14707	69	94.06
6	Less Than 8 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	7	14707	69	94.06
7	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	9	14707	69	94.06
8	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	10	14707	69	94.06
9	24+ ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	11	14707	69	94.06
10	16-24 ft.	1610612747	Los Angeles Lakers	11/01/2000	LAL vs. UTA	UTA	12	15851	69	95.71

## The CONTENTS Procedure

<b>Data Set Name</b>	WORK.TRAIN	<b>Observations</b>	25697
<b>Member Type</b>	DATA	<b>Variables</b>	29
<b>Engine</b>	V9	<b>Indexes</b>	0
<b>Created</b>	11/26/2018 11:18:38	<b>Observation Length</b>	304
<b>Last Modified</b>	11/26/2018 11:18:38	<b>Deleted Observations</b>	0
<b>Protection</b>		<b>Compressed</b>	NO
<b>Data Set Type</b>		<b>Sorted</b>	NO
<b>Label</b>			
<b>Data Representation</b>	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
<b>Encoding</b>	utf-8 Unicode (UTF-8)		

### Engine/Host Dependent Information

<b>Data Set Page Size</b>	131072
<b>Number of Data Set Pages</b>	60
<b>First Data Page</b>	1
<b>Max Obs per Page</b>	430
<b>Obs in First Data Page</b>	411
<b>Number of Data Set Repairs</b>	0
<b>Filename</b>	/saswork/SAS_workF4370001CE12_odaws02-prod-us/SAS_work92EB0001CE12_odaws02-prod-us/train.sas7bdat
<b>Release Created</b>	9.0401M5
<b>Host Created</b>	Linux
<b>Inode Number</b>	1074802857
<b>Access Permission</b>	rw-r--r--
<b>Owner Name</b>	bfriedrich0
<b>File Size</b>	8MB
<b>File Size (bytes)</b>	7995392

### Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Format	Informat	Label
2	action_type	Char	31	\$31.	\$31.	action_type
28	arena_temp	Num	8	BEST.		arena_temp
27	attendance	Num	8	BEST.		attendance
29	avnoisedb	Num	8	BEST.		avnoisedb
3	combined_shot_type	Char	9	\$9.	\$9.	combined_shot_type
23	game_date	Num	8	MMDDYY10.		game_date
4	game_event_id	Num	8	BEST.		game_event_id
5	game_id	Num	8	BEST.		game_id
6	lat	Num	8	BEST.		lat
7	loc_x	Num	8	BEST.		loc_x
8	loc_y	Num	8	BEST.		loc_y
9	lon	Num	8	BEST.		lon
24	matchup	Char	11	\$11.	\$11.	matchup
10	minutes_remaining	Num	8	BEST.		minutes_remaining
25	opponent	Char	3	\$3.	\$3.	opponent
11	period	Num	8	BEST.		period
12	playoffs	Num	8	BEST.		playoffs
1	recid	Num	8	BEST.		recid
13	season	Char	7	\$7.	\$7.	season
14	seconds_remaining	Num	8	BEST.		seconds_remaining
15	shot_distance	Num	8	BEST.		shot_distance
26	shot_id	Num	8	BEST.		shot_id
16	shot_made_flag	Num	8	BEST.		shot_made_flag
17	shot_type	Char	14	\$14.	\$14.	shot_type
18	shot_zone_area	Char	21	\$21.	\$21.	shot_zone_area

**The CONTENTS Procedure**

<b>Alphabetic List of Variables and Attributes</b>					
<b>#</b>	<b>Variable</b>	<b>Type</b>	<b>Len</b>	<b>Format</b>	<b>Informat</b>
19	shot_zone_basic	Char	21	\$21.	\$21.
20	shot_zone_range	Char	15	\$15.	\$15.
21	team_id	Num	8	BEST.	team_id
22	team_name	Char	18	\$18.	\$18.

### The MEANS Procedure

Variable	Label	N	Miss
recId	recId	25697	0
game_event_id	game_event_id	25697	0
game_id	game_id	25697	0
lat	lat	25697	0
loc_x	loc_x	25697	0
loc_y	loc_y	25697	0
lon	lon	25697	0
minutes_remaining	minutes_remaining	25697	0
period	period	25697	0
playoffs	playoffs	25697	0
seconds_remaining	seconds_remaining	25697	0
shot_distance	shot_distance	25697	0
shot_made_flag	shot_made_flag	25697	0
team_id	team_id	25697	0
game_date	game_date	25697	0
shot_id	shot_id	25697	0
attendance	attendance	25697	0
arena_temp	arena_temp	25697	0
avnoisedb	avnoisedb	25697	0

### The MEANS Procedure

Variable	Label	N	Miss
recId	recId	25697	0
game_event_id	game_event_id	25697	0
game_id	game_id	25697	0
lat	lat	25697	0
loc_x	loc_x	25697	0
loc_y	loc_y	25697	0
lon	lon	25697	0
minutes_remaining	minutes_remaining	25697	0
period	period	25697	0
playoffs	playoffs	25697	0
seconds_remaining	seconds_remaining	25697	0
shot_distance	shot_distance	25697	0
shot_made_flag	shot_made_flag	25697	0
team_id	team_id	25697	0
game_date	game_date	25697	0
shot_id	shot_id	25697	0
attendance	attendance	25697	0
arena_temp	arena_temp	25697	0
avnoisedb	avnoisedb	25697	0

**The UNIVARIATE Procedure**  
**Variable: recld (recld)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	15326.1812	<b>Sum Observations</b>	393836878
<b>Std Deviation</b>	8860.24685	<b>Variance</b>	78503974.2
<b>Skewness</b>	0.00229054	<b>Kurtosis</b>	-1.1972257
<b>Uncorrected SS</b>	8.05325E12	<b>Corrected SS</b>	2.01724E12
<b>Coeff Variation</b>	57.8111842	<b>Std Error Mean</b>	55.2719274

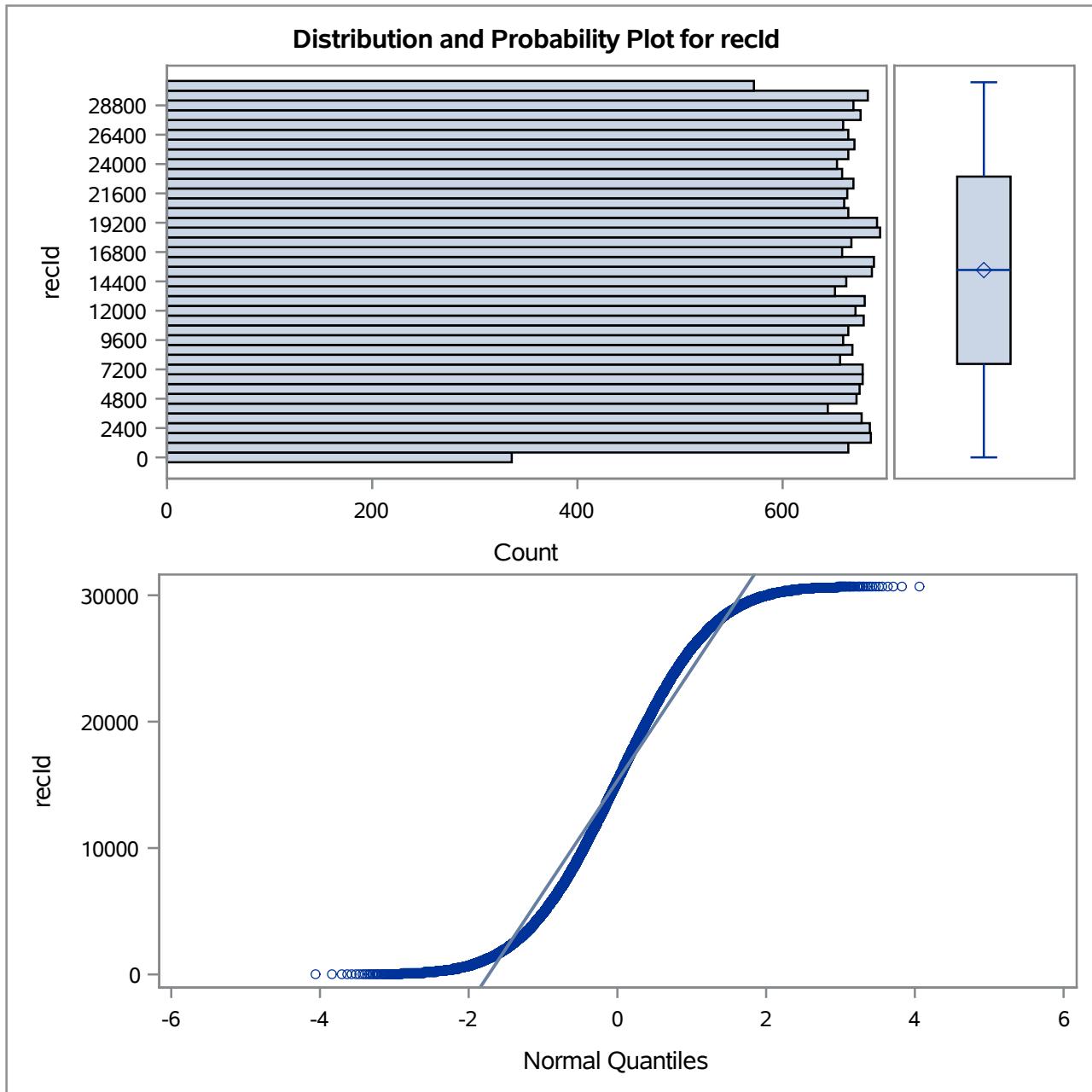
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	15326.18	<b>Std Deviation</b>	8860
<b>Median</b>	15333.00	<b>Variance</b>	78503974
<b>Mode</b>	.	<b>Range</b>	30691
		<b>Interquartile Range</b>	15327

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b>	<b>t</b>	277.2869	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	12848.5	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank S</b>		1.6509E8	<b>Pr &gt;=  S </b>	<.0001

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	30692
<b>99%</b>	30376
<b>95%</b>	29162
<b>90%</b>	27637
<b>75% Q3</b>	22973
<b>50% Median</b>	15333
<b>25% Q1</b>	7646
<b>10%</b>	3035
<b>5%</b>	1521
<b>1%</b>	307
<b>0% Min</b>	1

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
1	1	30688	25693
2	2	30689	25694
3	3	30690	25695
4	4	30691	25696
5	5	30692	25697

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: game\_event\_id (game\_event\_id)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	249.348679	<b>Sum Observations</b>	6407513
<b>Std Deviation</b>	149.77852	<b>Variance</b>	22433.6049
<b>Skewness</b>	0.06103359	<b>Kurtosis</b>	-1.042549
<b>Uncorrected SS</b>	2174158813	<b>Corrected SS</b>	576453912
<b>Coeff Variation</b>	60.0679018	<b>Std Error Mean</b>	0.93434727

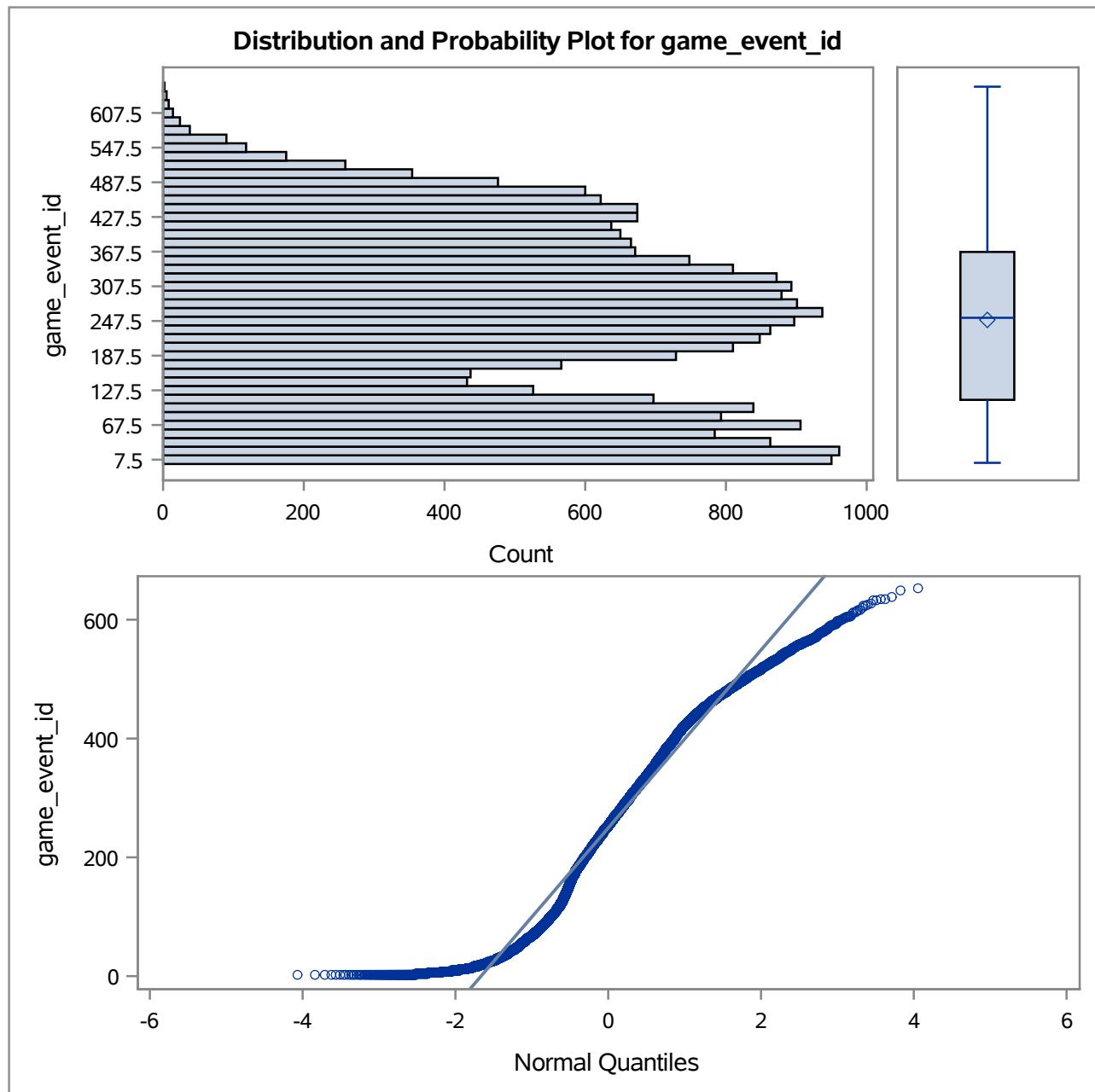
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	249.3487	<b>Std Deviation</b>	149.77852
<b>Median</b>	253.0000	<b>Variance</b>	22434
<b>Mode</b>	2.0000	<b>Range</b>	651.00000
		<b>Interquartile Range</b>	256.00000

<b>Tests for Location: Mu0=0</b>					
<b>Test</b>		<b>Statistic</b>		<b>p Value</b>	
<b>Student's t</b>	<b>t</b>	266.8694	<b>Pr &gt;  t </b>	<.0001	
<b>Sign</b>	<b>M</b>	12848.5	<b>Pr &gt;=  M </b>	<.0001	
<b>Signed Rank S</b>	<b>S</b>	1.6509E8	<b>Pr &gt;=  S </b>	<.0001	

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	653
<b>99%</b>	545
<b>95%</b>	488
<b>90%</b>	455
<b>75% Q3</b>	367
<b>50% Median</b>	253
<b>25% Q1</b>	111
<b>10%</b>	41
<b>5%</b>	20
<b>1%</b>	5
<b>0% Min</b>	2

<b>Extreme Observations</b>			
<b>Lowest</b>		<b>Highest</b>	
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
2	25577	634	4284
2	25078	634	16540
2	24978	639	4285
2	24782	650	16301
2	24699	653	16302

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: game\_id (game\_id)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	24741090.8	<b>Sum Observations</b>	6.35772E11
<b>Std Deviation</b>	7738107.84	<b>Variance</b>	5.98783E13
<b>Skewness</b>	1.70961275	<b>Kurtosis</b>	1.61522517
<b>Uncorrected SS</b>	1.72683E19	<b>Corrected SS</b>	1.53863E18
<b>Coeff Variation</b>	31.2763407	<b>Std Error Mean</b>	48271.808

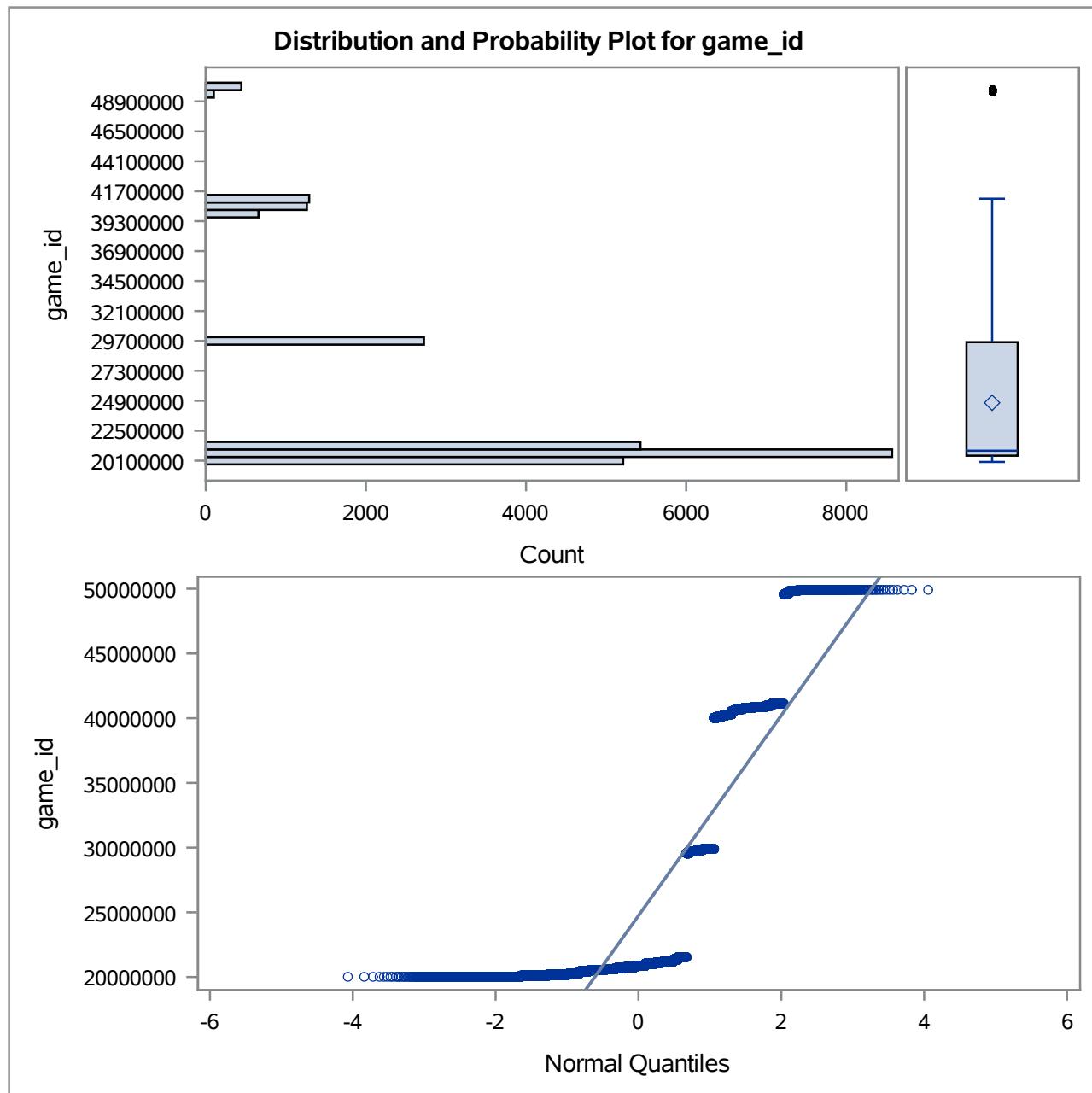
<b>Basic Statistical Measures</b>			
<b>Location</b>	<b>Variability</b>		
<b>Mean</b>	24741091	<b>Std Deviation</b>	7738108
<b>Median</b>	20900337	<b>Variance</b>	5.98783E13
<b>Mode</b>	21501228	<b>Range</b>	29900076
		<b>Interquartile Range</b>	9100206

<b>Tests for Location: Mu0=0</b>					
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>			
<b>Student's t</b>	<b>t</b>	512.5371	<b>Pr &gt;  t </b>	<.0001	
<b>Sign</b>	<b>M</b>	12848.5	<b>Pr &gt;=  M </b>	<.0001	
<b>Signed Rank S</b>	<b>S</b>	1.6509E8	<b>Pr &gt;=  S </b>	<.0001	

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	49900088
<b>99%</b>	49900028
<b>95%</b>	40900231
<b>90%</b>	40300316
<b>75% Q3</b>	29600270
<b>50% Median</b>	20900337
<b>25% Q1</b>	20500064
<b>10%</b>	20101121
<b>5%</b>	20100012
<b>1%</b>	20000206
<b>0% Min</b>	20000012

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
20000012	9	49900088	25693
20000012	8	49900088	25694
20000012	7	49900088	25695
20000012	6	49900088	25696
20000012	5	49900088	25697

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: lat (lat)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	33.9530427	<b>Sum Observations</b>	872491.337
<b>Std Deviation</b>	0.08815211	<b>Variance</b>	0.00777079
<b>Skewness</b>	-0.8406873	<b>Kurtosis</b>	1.38955138
<b>Uncorrected SS</b>	29623935.3	<b>Corrected SS</b>	199.678319
<b>Coeff Variation</b>	0.25962948	<b>Std Error Mean</b>	0.00054991

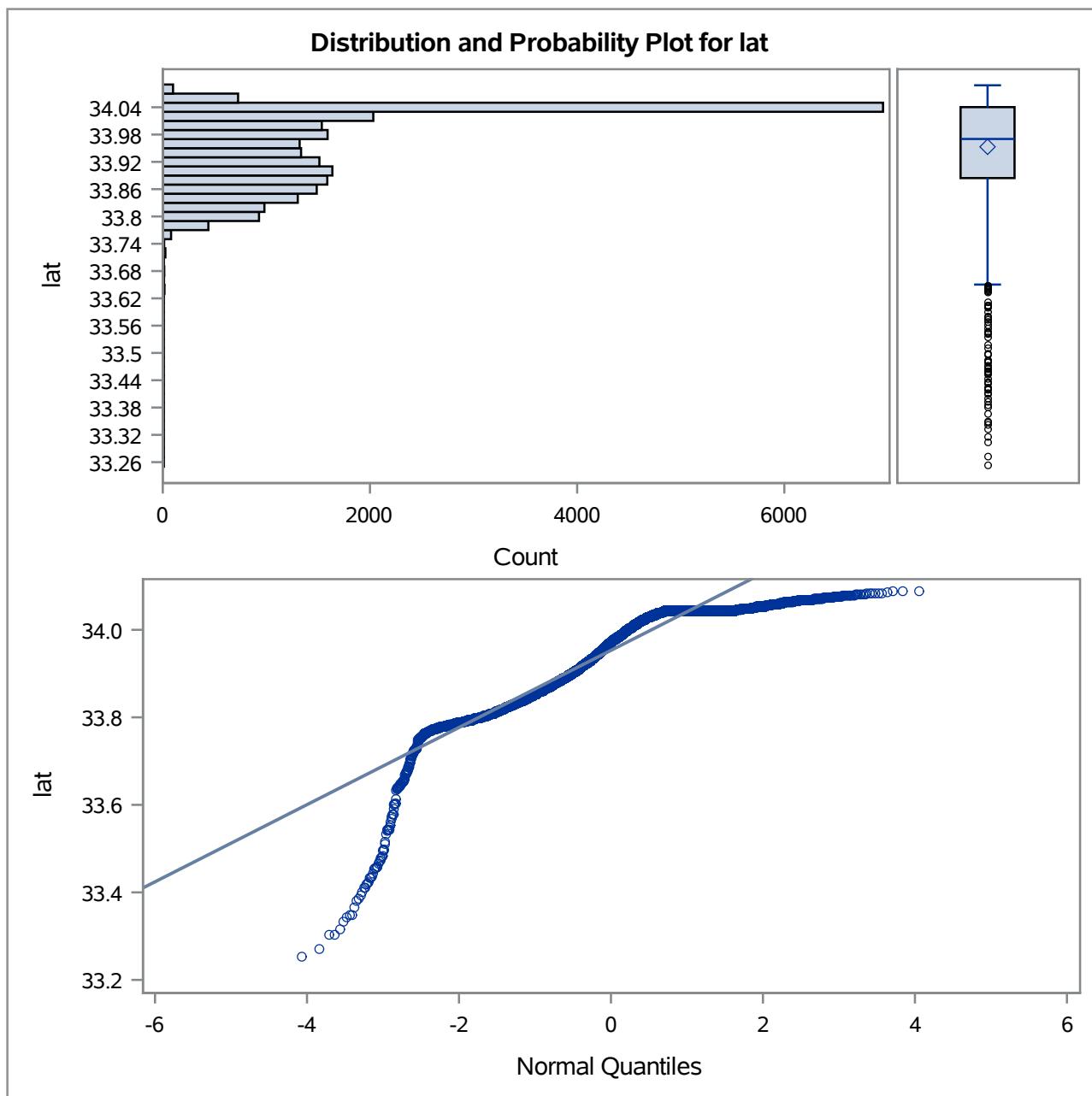
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	33.95304	<b>Std Deviation</b>	0.08815
<b>Median</b>	33.97030	<b>Variance</b>	0.00777
<b>Mode</b>	34.04430	<b>Range</b>	0.83500
		<b>Interquartile Range</b>	0.15600

<b>Tests for Location: Mu0=0</b>					
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>			
<b>Student's t</b>	<b>t</b>	61742.93	<b>Pr &gt;  t </b>	<.0001	
<b>Sign</b>	<b>M</b>	12848.5	<b>Pr &gt;=  M </b>	<.0001	
<b>Signed Rank</b>	<b>S</b>	1.6509E8	<b>Pr &gt;=  S </b>	<.0001	

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	34.0883
<b>99%</b>	34.0623
<b>95%</b>	34.0453
<b>90%</b>	34.0443
<b>75% Q3</b>	34.0403
<b>50% Median</b>	33.9703
<b>25% Q1</b>	33.8843
<b>10%</b>	33.8293
<b>5%</b>	33.8033
<b>1%</b>	33.7733
<b>0% Min</b>	33.2533

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
33.2533	24377	34.0843	16717
33.2713	23433	34.0863	23031
33.3033	10936	34.0873	16579
33.3033	5587	34.0883	4348
33.3163	24390	34.0883	16708

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: loc\_x (loc\_x)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	7.14842199	<b>Sum Observations</b>	183693
<b>Std Deviation</b>	110.073147	<b>Variance</b>	12116.0976
<b>Skewness</b>	-0.0849303	<b>Kurtosis</b>	-0.6711541
<b>Uncorrected SS</b>	312648359	<b>Corrected SS</b>	311335244
<b>Coeff Variation</b>	1539.82441	<b>Std Error Mean</b>	0.6866575

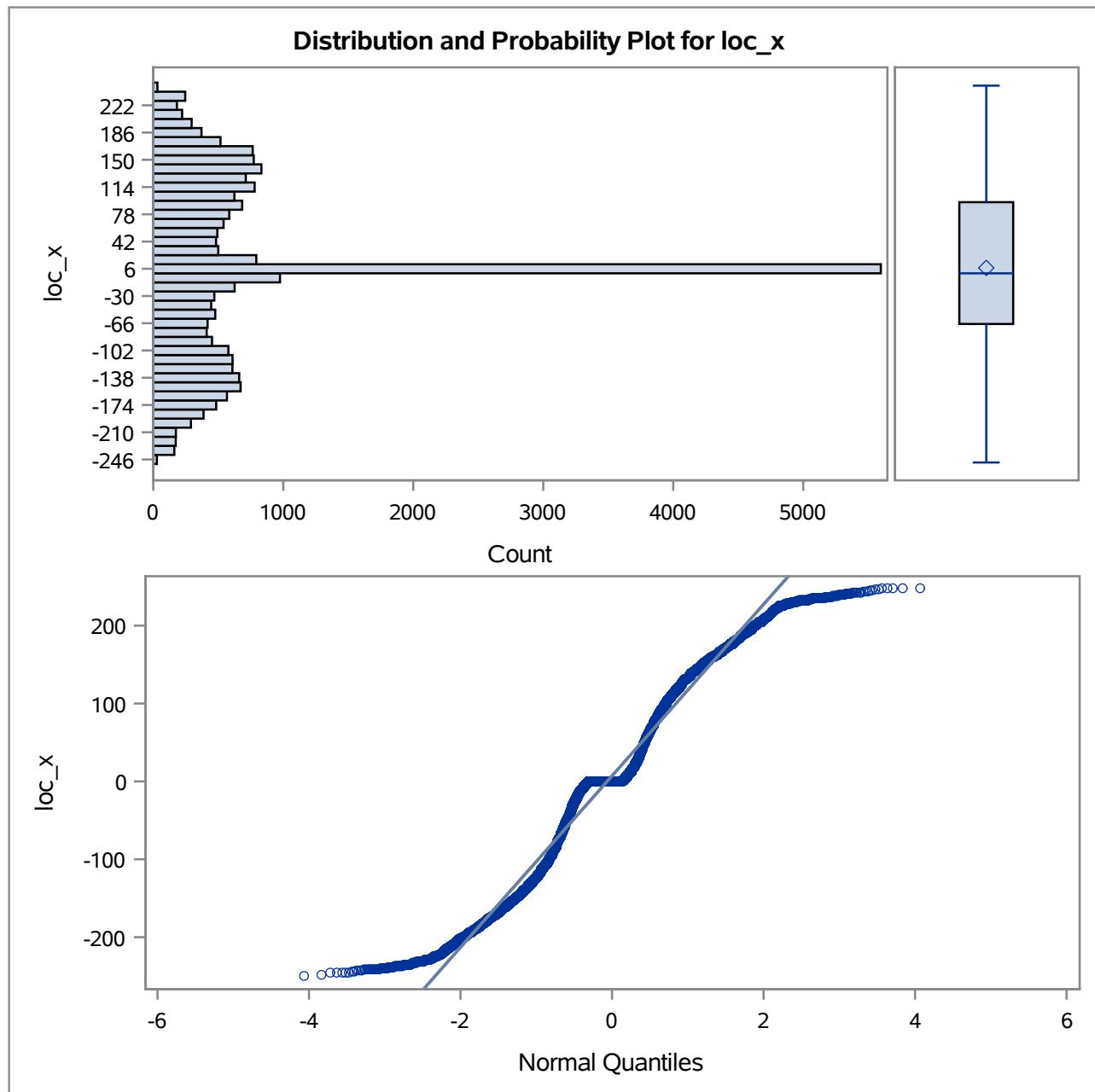
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	7.148422	<b>Std Deviation</b>	110.07315
<b>Median</b>	0.000000	<b>Variance</b>	12116
<b>Mode</b>	0.000000	<b>Range</b>	498.00000
		<b>Interquartile Range</b>	161.00000

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b>	<b>t</b>	10.41046	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	895	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	9269844	<b>Pr &gt;=  S </b>	<.0001

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	248
<b>99%</b>	228
<b>95%</b>	182
<b>90%</b>	156
<b>75% Q3</b>	94
<b>50% Median</b>	0
<b>25% Q1</b>	-67
<b>10%</b>	-151
<b>5%</b>	-177
<b>1%</b>	-225
<b>0% Min</b>	-250

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
-250	18784	248	4615
-248	16431	248	7756
-246	18296	248	8052
-246	16991	248	9961
-245	24984	248	10196

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: loc\_y (loc\_y)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	91.2573452	<b>Sum Observations</b>	2345040
<b>Std Deviation</b>	88.1521064	<b>Variance</b>	7770.79387
<b>Skewness</b>	0.84068727	<b>Kurtosis</b>	1.38955138
<b>Uncorrected SS</b>	413680444	<b>Corrected SS</b>	199678319
<b>Coeff Variation</b>	96.5972725	<b>Std Error Mean</b>	0.54990983

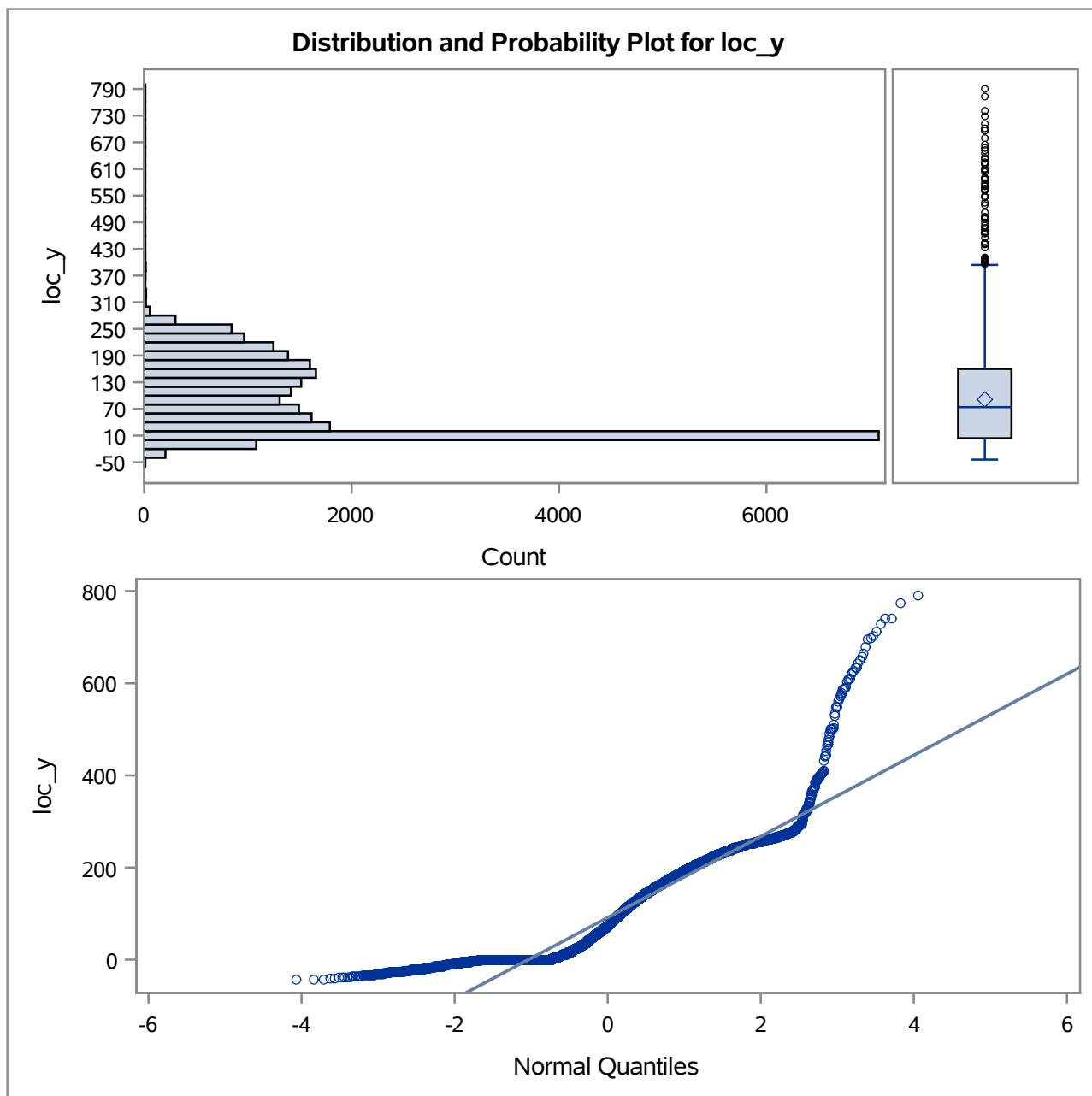
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	91.25735	<b>Std Deviation</b>	88.15211
<b>Median</b>	74.00000	<b>Variance</b>	7771
<b>Mode</b>	0.00000	<b>Range</b>	835.00000
		<b>Interquartile Range</b>	156.00000

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b>	<b>t</b>	165.9497	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	9220	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	1.0797E8	<b>Pr &gt;=  S </b>	<.0001

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	791
<b>99%</b>	271
<b>95%</b>	241
<b>90%</b>	215
<b>75% Q3</b>	160
<b>50% Median</b>	74
<b>25% Q1</b>	4
<b>10%</b>	0
<b>5%</b>	-1
<b>1%</b>	-18
<b>0% Min</b>	-44

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
-44	16708	728	24390
-44	4348	741	5587
-43	16579	741	10936
-42	23031	773	23433
-40	16717	791	24377

## The UNIVARIATE Procedure



## The UNIVARIATE Procedure

### Variable: Ion (Ion)

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	-118.26265	<b>Sum Observations</b>	-3038995.4
<b>Std Deviation</b>	0.11007315	<b>Variance</b>	0.0121161
<b>Skewness</b>	-0.0849303	<b>Kurtosis</b>	-0.6711541
<b>Uncorrected SS</b>	359399960	<b>Corrected SS</b>	311.335244
<b>Coeff Variation</b>	-0.0930752	<b>Std Error Mean</b>	0.00068666

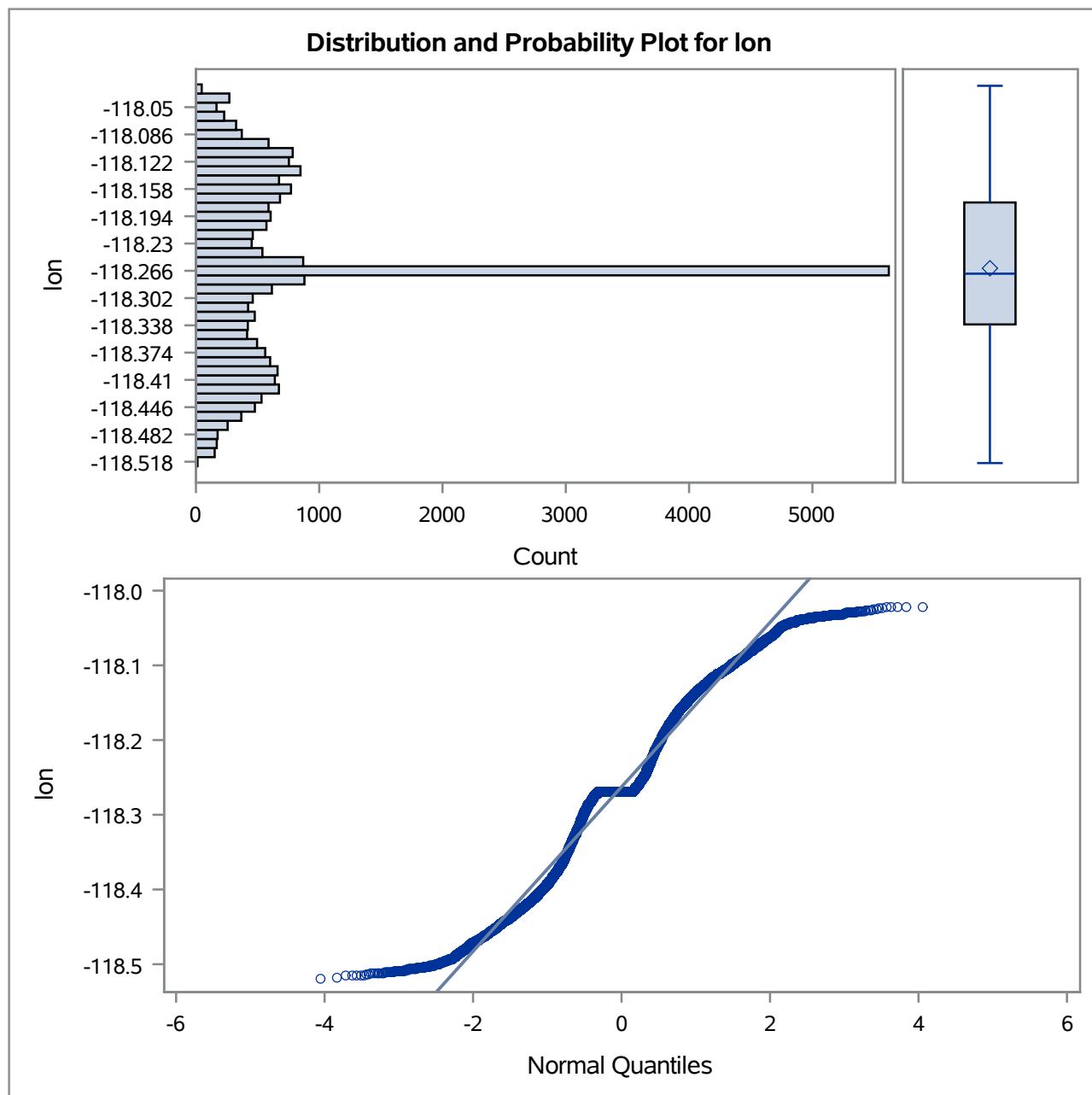
<b>Basic Statistical Measures</b>			
<b>Location</b>	<b>Variability</b>		
<b>Mean</b> -118.263	<b>Std Deviation</b>	0.11007	
<b>Median</b> -118.270	<b>Variance</b>	0.01212	
<b>Mode</b> -118.270	<b>Range</b>	0.49800	
	<b>Interquartile Range</b>	0.16100	

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b> <b>t</b>	-172229	<b>Pr &gt;  t </b>	<.0001	
<b>Sign</b> <b>M</b>	-12848.5	<b>Pr &gt;=  M </b>	<.0001	
<b>Signed Rank</b> <b>S</b>	-1.651E8	<b>Pr &gt;=  S </b>	<.0001	

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	-118.022
<b>99%</b>	-118.042
<b>95%</b>	-118.088
<b>90%</b>	-118.114
<b>75% Q3</b>	-118.176
<b>50% Median</b>	-118.270
<b>25% Q1</b>	-118.337
<b>10%</b>	-118.421
<b>5%</b>	-118.447
<b>1%</b>	-118.495
<b>0% Min</b>	-118.520

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
-118.520	18784	-118.022	4615
-118.518	16431	-118.022	7756
-118.516	18296	-118.022	8052
-118.516	16991	-118.022	9961
-118.515	24984	-118.022	10196

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: minutes\_remaining (minutes\_remaining)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	4.88679612	<b>Sum Observations</b>	125576
<b>Std Deviation</b>	3.45247539	<b>Variance</b>	11.9195863
<b>Skewness</b>	0.19762443	<b>Kurtosis</b>	-1.1667746
<b>Uncorrected SS</b>	919950	<b>Corrected SS</b>	306285.69
<b>Coeff Variation</b>	70.6490572	<b>Std Error Mean</b>	0.02153721

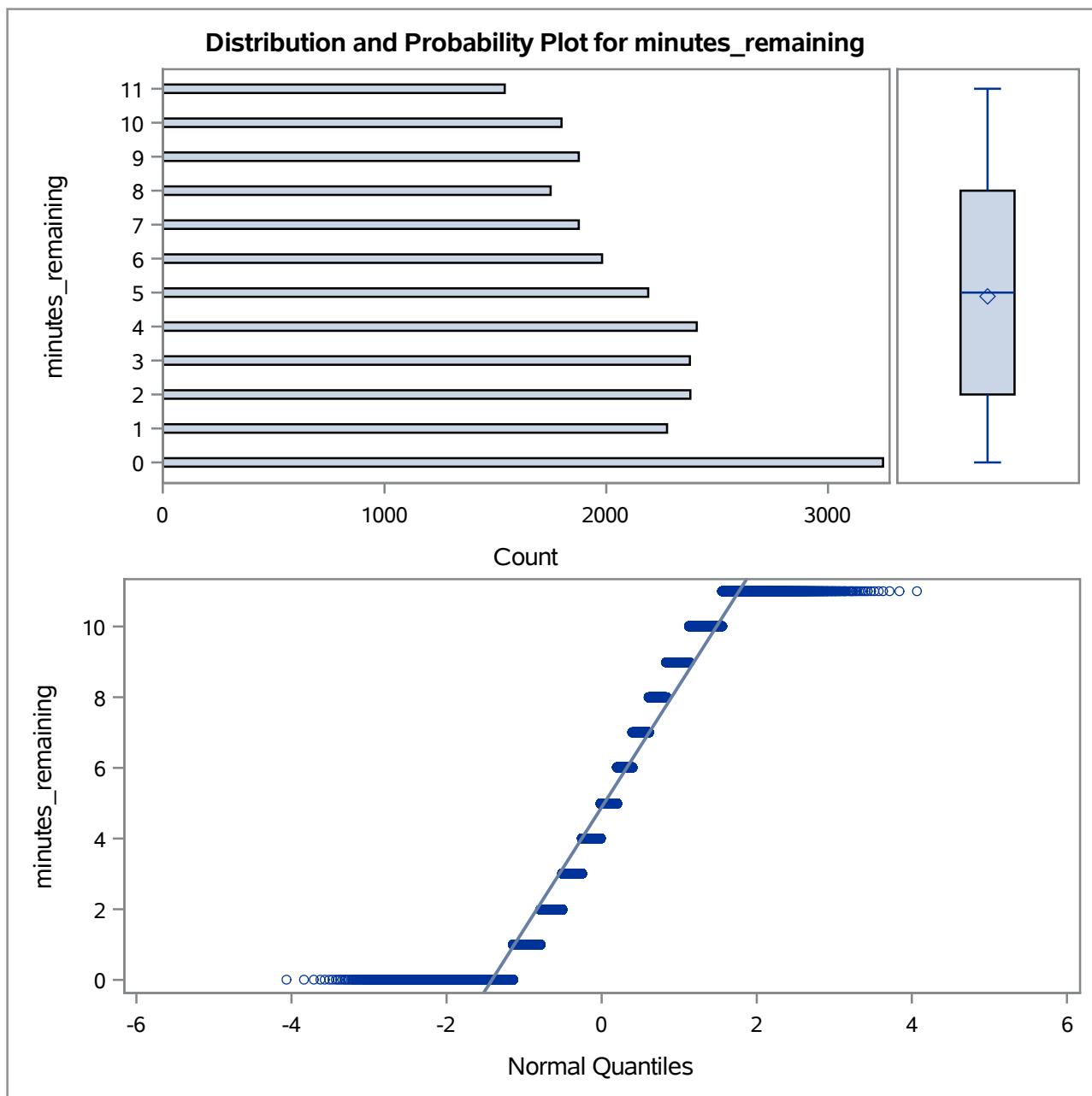
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	4.886796	<b>Std Deviation</b>	3.45248
<b>Median</b>	5.000000	<b>Variance</b>	11.91959
<b>Mode</b>	0.000000	<b>Range</b>	11.00000
		<b>Interquartile Range</b>	6.00000

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b>	t	226.9002	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	M	11224.5	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	S	1.26E8	<b>Pr &gt;=  S </b>	<.0001

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	11
<b>99%</b>	11
<b>95%</b>	11
<b>90%</b>	10
<b>75% Q3</b>	8
<b>50% Median</b>	5
<b>25% Q1</b>	2
<b>10%</b>	0
<b>5%</b>	0
<b>1%</b>	0
<b>0% Min</b>	0

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
0	25697	11	25588
0	25691	11	25620
0	25685	11	25637
0	25684	11	25644
0	25682	11	25692

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: period (period)**

<b>Moments</b>		
<b>N</b>	25697	<b>Sum Weights</b> 25697
<b>Mean</b>	2.52080009	<b>Sum Observations</b> 64777
<b>Std Deviation</b>	1.15162611	<b>Variance</b> 1.3262427
<b>Skewness</b>	0.05417085	<b>Kurtosis</b> -1.1558735
<b>Uncorrected SS</b>	197369	<b>Corrected SS</b> 34079.1324
<b>Coeff Variation</b>	45.684944	<b>Std Error Mean</b> 0.00718407

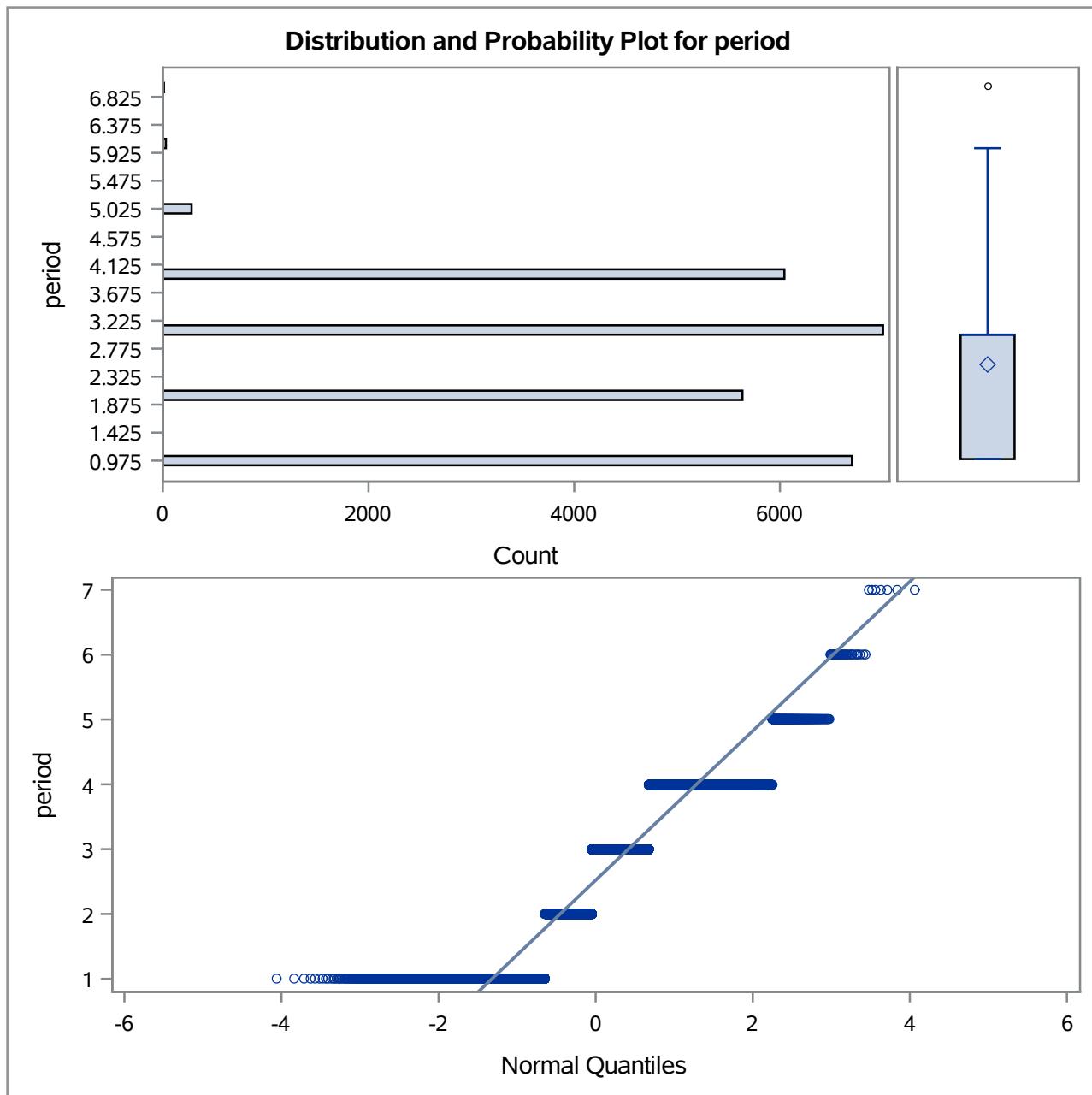
<b>Basic Statistical Measures</b>		
<b>Location</b>	<b>Variability</b>	
<b>Mean</b> 2.520800	<b>Std Deviation</b> 1.15163	
<b>Median</b> 3.000000	<b>Variance</b> 1.32624	
<b>Mode</b> 3.000000	<b>Range</b> 6.00000	
	<b>Interquartile Range</b> 2.00000	

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b> <b>t</b>	350.8877	<b>Pr &gt;  t </b> <.0001		
<b>Sign</b> <b>M</b>	12848.5	<b>Pr &gt;=  M </b> <.0001		
<b>Signed Rank S</b>	1.6509E8	<b>Pr &gt;=  S </b> <.0001		

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	7
<b>99%</b>	5
<b>95%</b>	4
<b>90%</b>	4
<b>75% Q3</b>	3
<b>50% Median</b>	3
<b>25% Q1</b>	1
<b>10%</b>	1
<b>5%</b>	1
<b>1%</b>	1
<b>0% Min</b>	1

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
1	25682	7	14947
1	25681	7	14948
1	25680	7	14949
1	25679	7	14950
1	25678	7	14951

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: playoffs (playoffs)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	0.14624275	<b>Sum Observations</b>	3758
<b>Std Deviation</b>	0.35335629	<b>Variance</b>	0.12486067
<b>Skewness</b>	2.00242527	<b>Kurtosis</b>	2.00986338
<b>Uncorrected SS</b>	3758	<b>Corrected SS</b>	3208.41974
<b>Coeff Variation</b>	241.623114	<b>Std Error Mean</b>	0.0022043

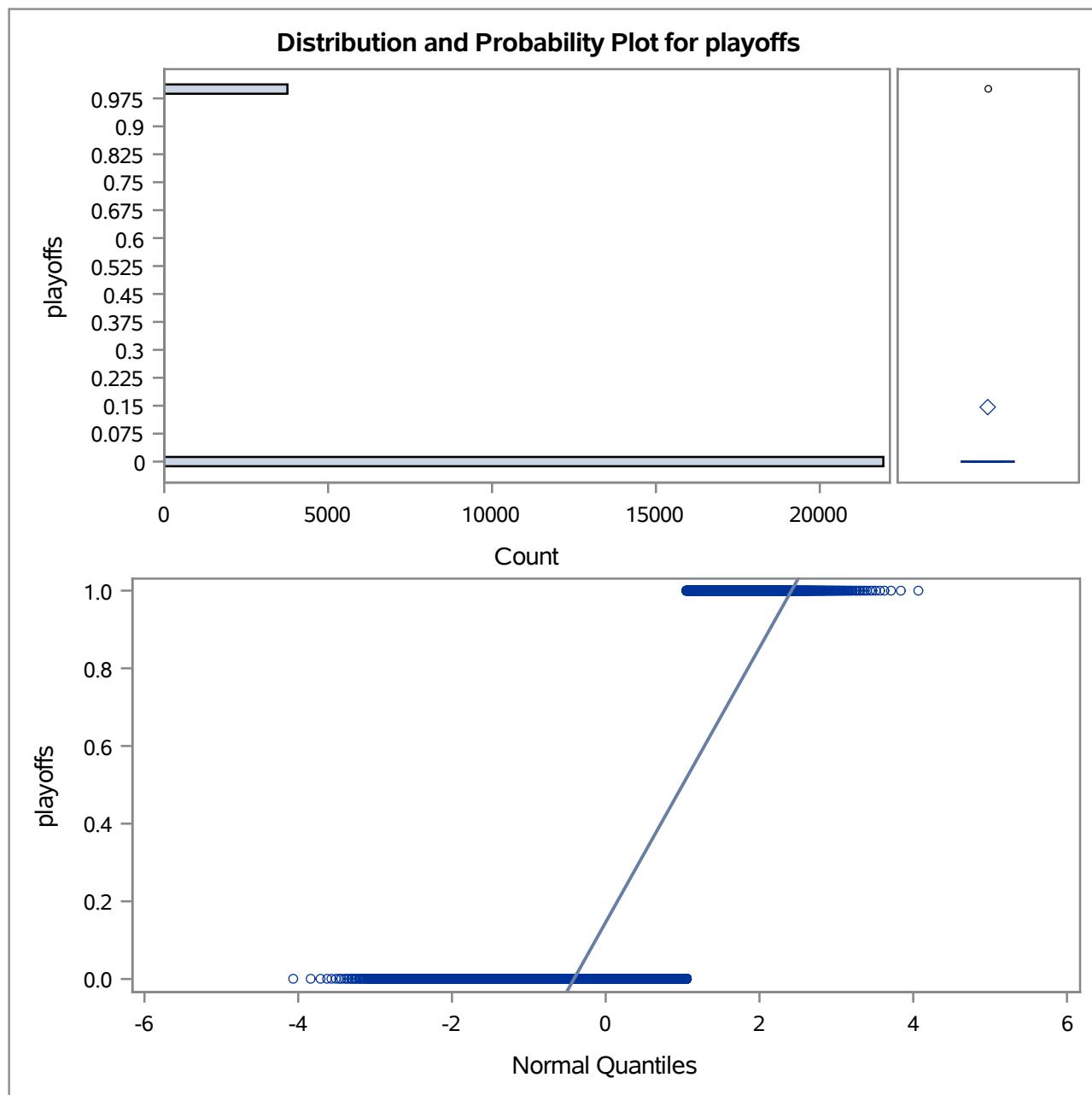
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	0.146243	<b>Std Deviation</b>	0.35336
<b>Median</b>	0.000000	<b>Variance</b>	0.12486
<b>Mode</b>	0.000000	<b>Range</b>	1.00000
		<b>Interquartile Range</b>	0

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b>	<b>t</b>	66.34417	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	1879	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	3531581	<b>Pr &gt;=  S </b>	<.0001

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	1
<b>99%</b>	1
<b>95%</b>	1
<b>90%</b>	1
<b>75% Q3</b>	0
<b>50% Median</b>	0
<b>25% Q1</b>	0
<b>10%</b>	0
<b>5%</b>	0
<b>1%</b>	0
<b>0% Min</b>	0

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
0	21939	1	25693
0	21938	1	25694
0	21937	1	25695
0	21936	1	25696
0	21935	1	25697

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: seconds\_remaining (seconds\_remaining)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	28.3115539	<b>Sum Observations</b>	727522
<b>Std Deviation</b>	17.5233918	<b>Variance</b>	307.06926
<b>Skewness</b>	0.03525222	<b>Kurtosis</b>	-1.1917687
<b>Uncorrected SS</b>	28487730	<b>Corrected SS</b>	7890451.7
<b>Coeff Variation</b>	61.8948429	<b>Std Error Mean</b>	0.1093143

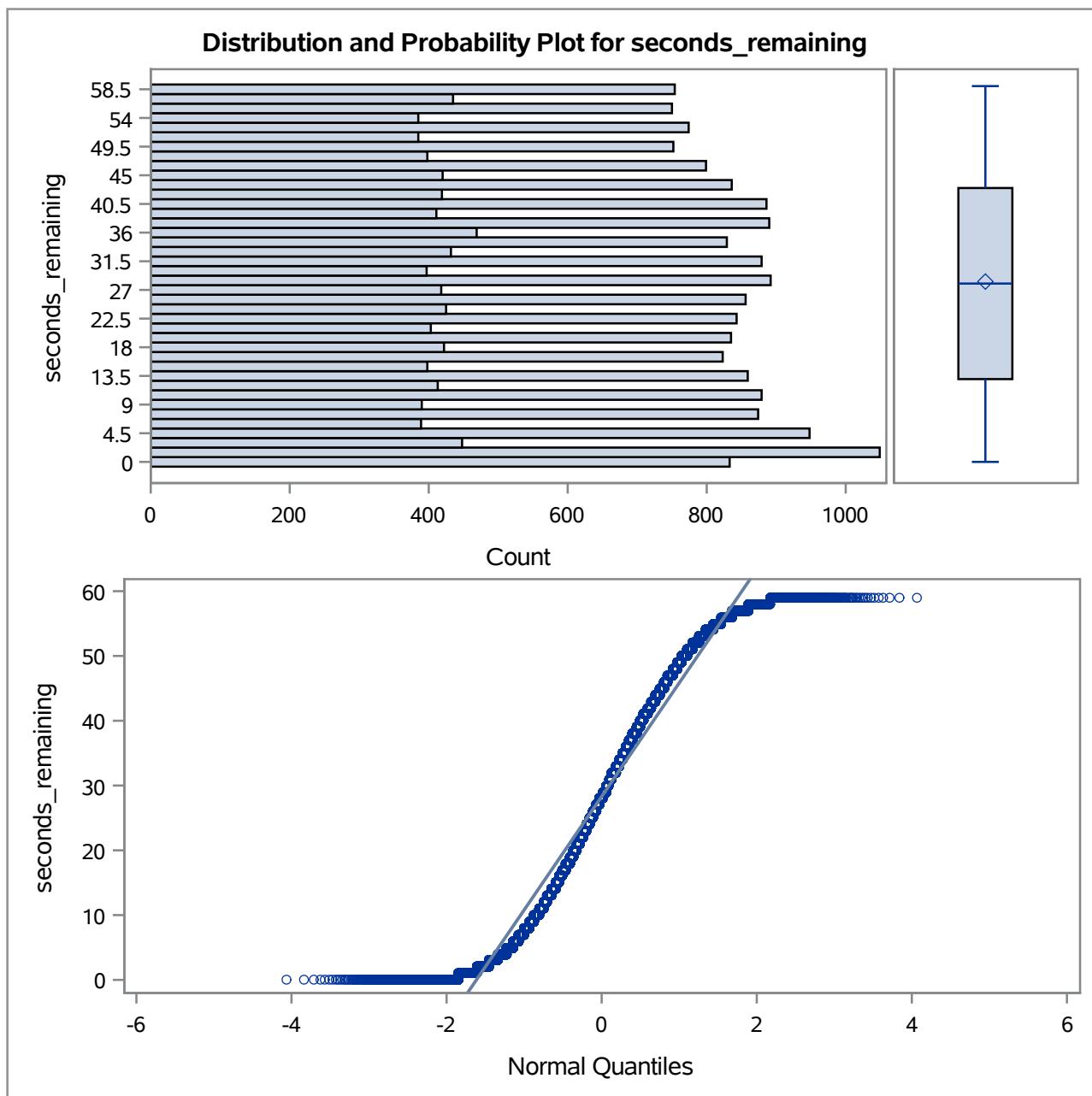
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	28.31155	<b>Std Deviation</b>	17.52339
<b>Median</b>	28.00000	<b>Variance</b>	307.06926
<b>Mode</b>	0.00000	<b>Range</b>	59.00000
		<b>Interquartile Range</b>	30.00000

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b>	<b>t</b>	258.9922	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	12432	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	1.5456E8	<b>Pr &gt;=  S </b>	<.0001

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	59
<b>99%</b>	59
<b>95%</b>	56
<b>90%</b>	53
<b>75% Q3</b>	43
<b>50% Median</b>	28
<b>25% Q1</b>	13
<b>10%</b>	4
<b>5%</b>	1
<b>1%</b>	0
<b>0% Min</b>	0

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
0	25691	59	25317
0	25680	59	25392
0	25651	59	25404
0	25637	59	25647
0	25632	59	25666

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: shot\_distance (shot\_distance)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	13.4570962	<b>Sum Observations</b>	345807
<b>Std Deviation</b>	9.3887248	<b>Variance</b>	88.1481534
<b>Skewness</b>	0.12720932	<b>Kurtosis</b>	0.15759484
<b>Uncorrected SS</b>	6918613	<b>Corrected SS</b>	2265054.95
<b>Coeff Variation</b>	69.7678362	<b>Std Error Mean</b>	0.05856867

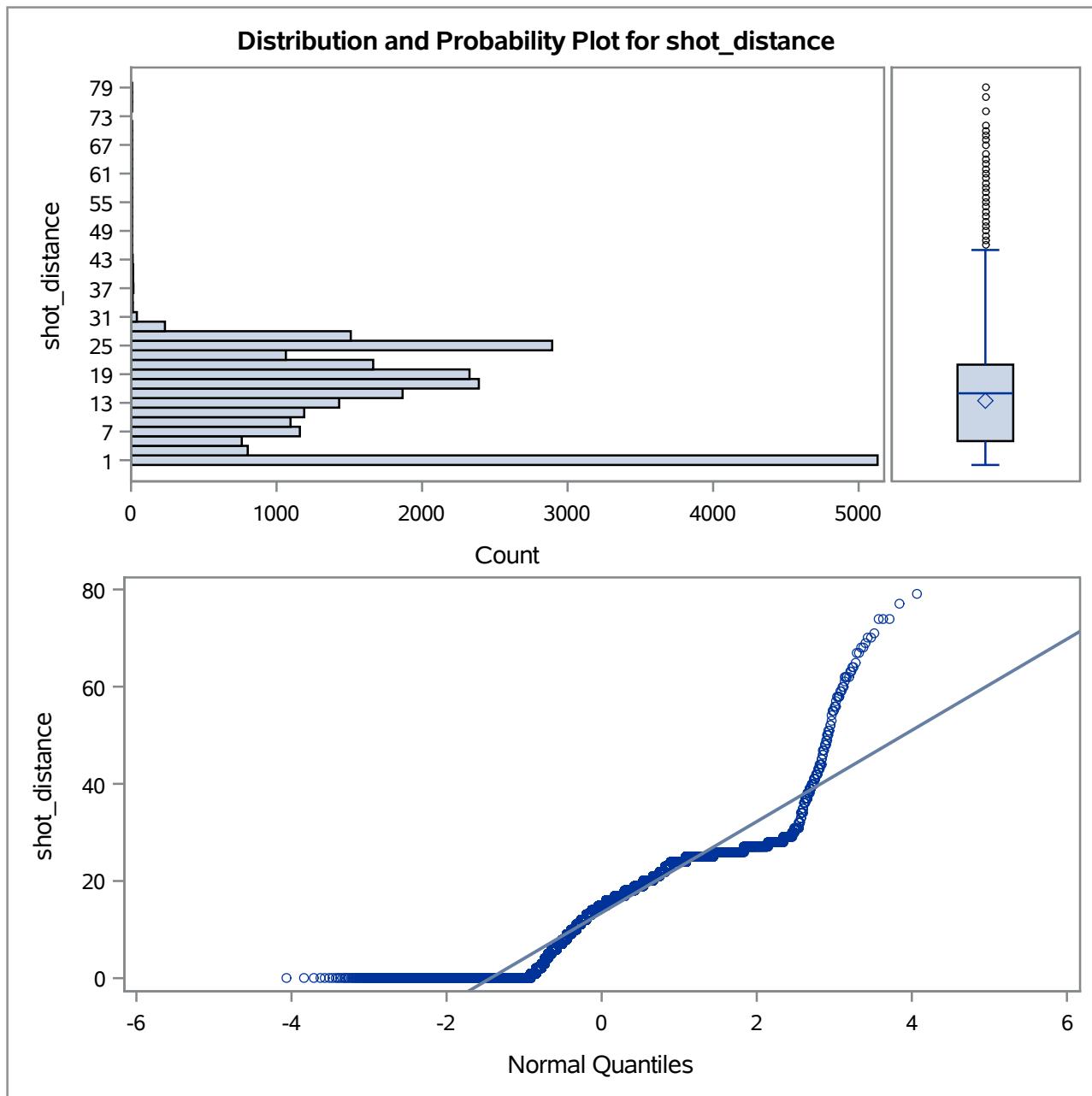
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	13.45710	<b>Std Deviation</b>	9.38872
<b>Median</b>	15.00000	<b>Variance</b>	88.14815
<b>Mode</b>	0.00000	<b>Range</b>	79.00000
		<b>Interquartile Range</b>	16.00000

<b>Tests for Location: Mu0=0</b>					
<b>Test</b>		<b>Statistic</b>		<b>p Value</b>	
<b>Student's t</b>	<b>t</b>	229.7661	<b>Pr &gt;  t </b>	<.0001	
<b>Sign</b>	<b>M</b>	10544.5	<b>Pr &gt;=  M </b>	<.0001	
<b>Signed Rank</b>	<b>S</b>	1.1119E8	<b>Pr &gt;=  S </b>	<.0001	

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	79
<b>99%</b>	28
<b>95%</b>	26
<b>90%</b>	25
<b>75% Q3</b>	21
<b>50% Median</b>	15
<b>25% Q1</b>	5
<b>10%</b>	0
<b>5%</b>	0
<b>1%</b>	0
<b>0% Min</b>	0

<b>Extreme Observations</b>			
	<b>Lowest</b>	<b>Highest</b>	
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
0	25693	74	5587
0	25684	74	10936
0	25676	74	24390
0	25668	77	23433
0	25631	79	24377

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: shot\_made\_flag (shot\_made\_flag)**

<b>Moments</b>		
<b>N</b>	25697	<b>Sum Weights</b> 25697
<b>Mean</b>	0.44616103	<b>Sum Observations</b> 11465
<b>Std Deviation</b>	0.49710259	<b>Variance</b> 0.24711098
<b>Skewness</b>	0.21662796	<b>Kurtosis</b> -1.9532244
<b>Uncorrected SS</b>	11465	<b>Corrected SS</b> 6349.76379
<b>Coeff Variation</b>	111.417751	<b>Std Error Mean</b> 0.00310102

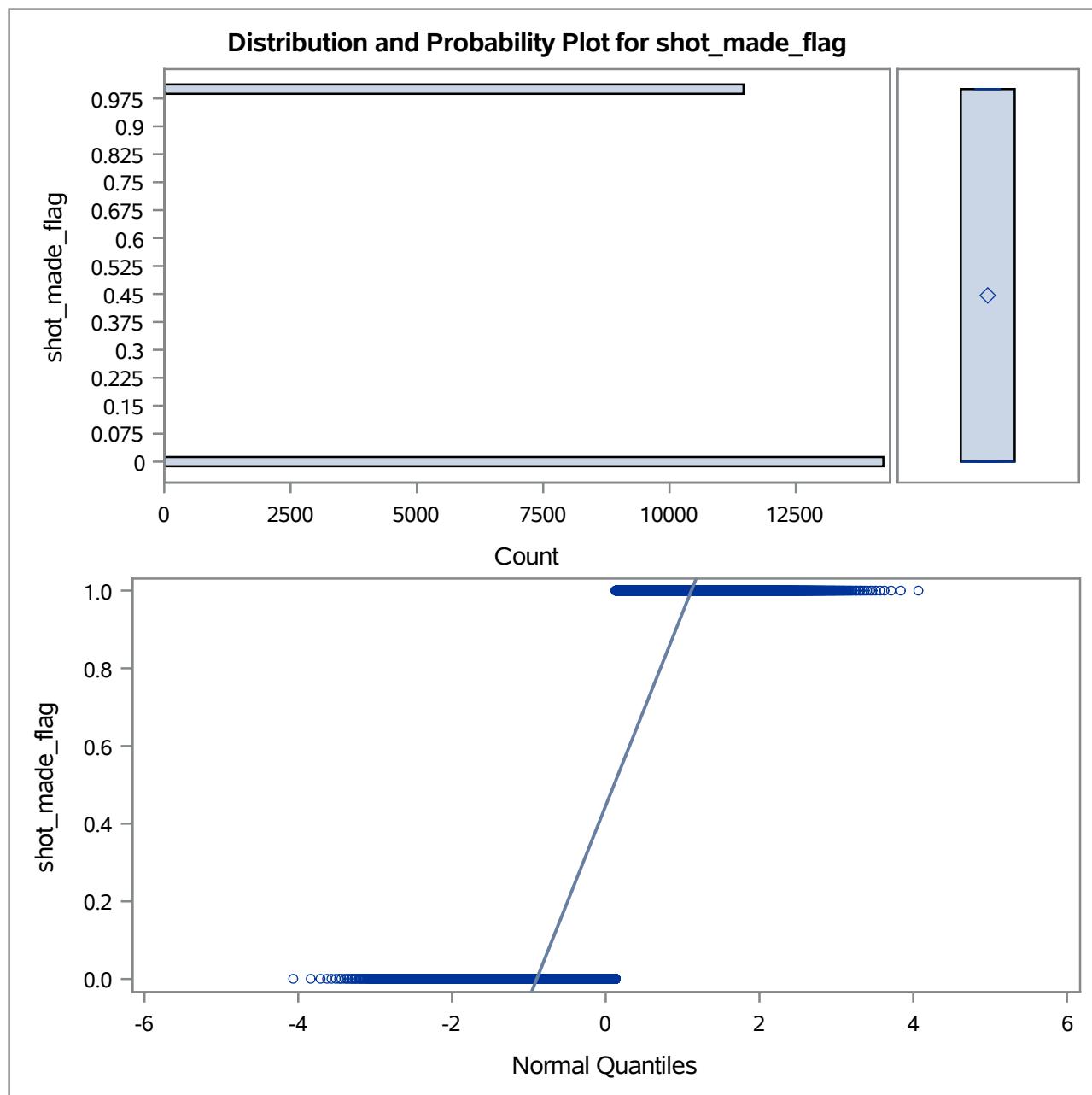
<b>Basic Statistical Measures</b>		
<b>Location</b>	<b>Variability</b>	
<b>Mean</b> 0.446161	<b>Std Deviation</b> 0.49710	
<b>Median</b> 0.000000	<b>Variance</b> 0.24711	
<b>Mode</b> 0.000000	<b>Range</b> 1.00000	
	<b>Interquartile Range</b> 1.00000	

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b> t	143.8755	<b>Pr &gt;  t </b> <.0001		
<b>Sign</b> M	5732.5	<b>Pr &gt;=  M </b> <.0001		
<b>Signed Rank</b> S	32864423	<b>Pr &gt;=  S </b> <.0001		

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	1
<b>99%</b>	1
<b>95%</b>	1
<b>90%</b>	1
<b>75% Q3</b>	1
<b>50% Median</b>	0
<b>25% Q1</b>	0
<b>10%</b>	0
<b>5%</b>	0
<b>1%</b>	0
<b>0% Min</b>	0

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
0	25697	1	25679
0	25696	1	25681
0	25694	1	25685
0	25693	1	25690
0	25692	1	25695

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: team\_id (team\_id)**

Moments			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	1610612747	<b>Sum Observations</b>	4.13879E13
<b>Std Deviation</b>	0	<b>Variance</b>	0
<b>Skewness</b>	.	<b>Kurtosis</b>	.
<b>Uncorrected SS</b>	6.66599E22	<b>Corrected SS</b>	0
<b>Coeff Variation</b>	0	<b>Std Error Mean</b>	0

Basic Statistical Measures			
Location	Variability		
<b>Mean</b>	1.6106E9	<b>Std Deviation</b>	0
<b>Median</b>	1.6106E9	<b>Variance</b>	0
<b>Mode</b>	1.6106E9	<b>Range</b>	0
		<b>Interquartile Range</b>	0

Tests for Location: Mu0=0			
Test	Statistic	p Value	
<b>Student's t</b>	<b>t</b>	. Pr >  t	.
<b>Sign</b>	<b>M</b>	12848.5 Pr >=  M	<.0001
<b>Signed Rank</b>	<b>S</b>	1.6509E8 Pr >=  S	<.0001

Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	1610612747
<b>99%</b>	1610612747
<b>95%</b>	1610612747
<b>90%</b>	1610612747
<b>75% Q3</b>	1610612747
<b>50% Median</b>	1610612747
<b>25% Q1</b>	1610612747
<b>10%</b>	1610612747
<b>5%</b>	1610612747
<b>1%</b>	1610612747
<b>0% Min</b>	1610612747

Extreme Observations			
Lowest	Highest		
Value	Obs	Value	Obs
1610612747	25697	1610612747	25693
1610612747	25696	1610612747	25694
1610612747	25695	1610612747	25695
1610612747	25694	1610612747	25696
1610612747	25693	1610612747	25697

**The UNIVARIATE Procedure**  
**Variable: game\_date (game\_date)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	16999.0686	<b>Sum Observations</b>	436825066
<b>Std Deviation</b>	1765.68632	<b>Variance</b>	3117648.19
<b>Skewness</b>	0.036957	<b>Kurtosis</b>	-0.9024157
<b>Uncorrected SS</b>	7.50573E12	<b>Corrected SS</b>	8.01111E10
<b>Coeff Variation</b>	10.3869592	<b>Std Error Mean</b>	11.0146916

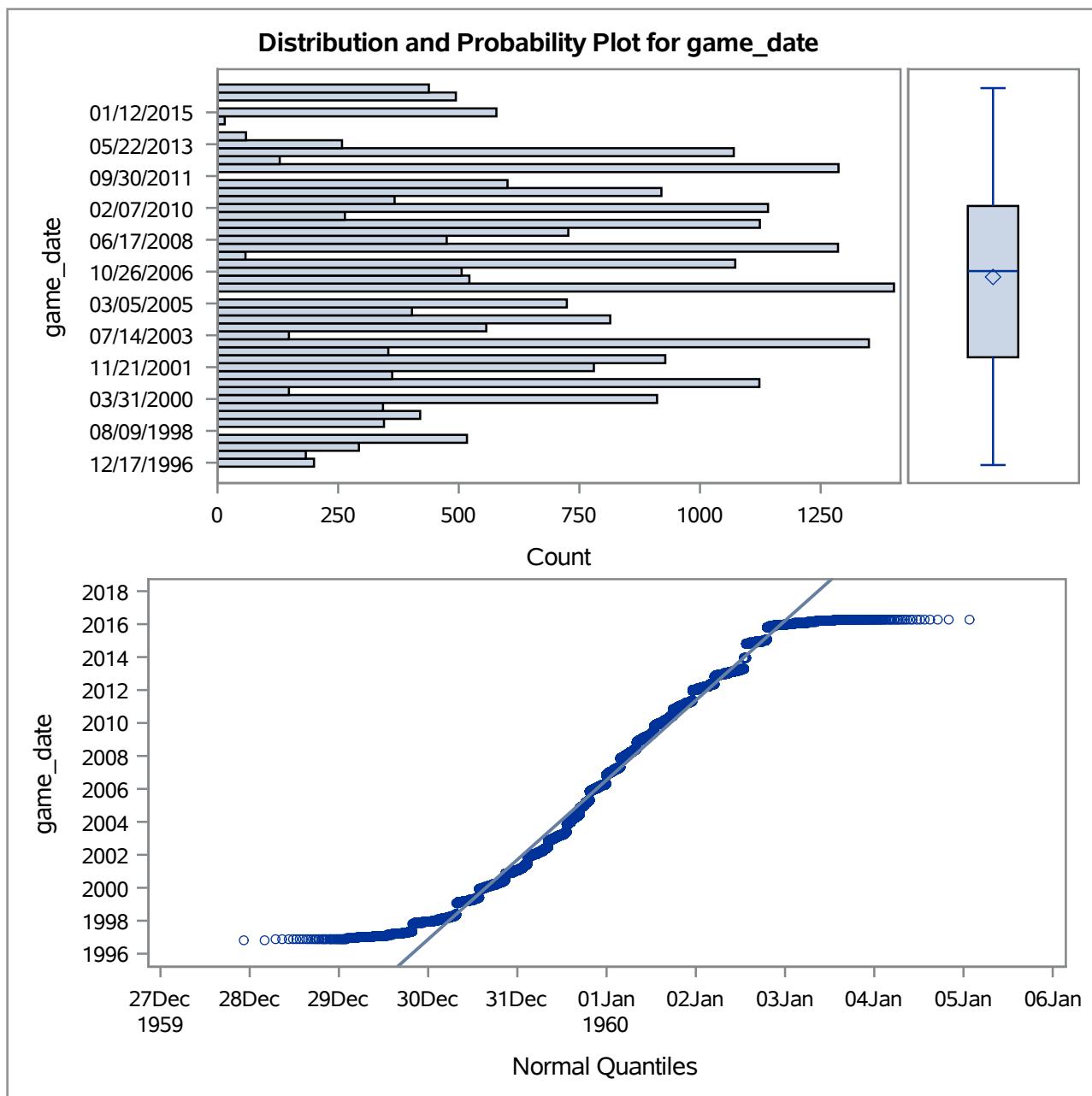
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	16999.07	<b>Std Deviation</b>	1766
<b>Median</b>	17110.00	<b>Variance</b>	3117648
<b>Mode</b>	20557.00	<b>Range</b>	7101
		<b>Interquartile Range</b>	2851

<b>Tests for Location: Mu0=0</b>					
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>			
<b>Student's t</b>	<b>t</b>	1543.309	<b>Pr &gt;  t </b>	<.0001	
<b>Sign</b>	<b>M</b>	12848.5	<b>Pr &gt;=  M </b>	<.0001	
<b>Signed Rank</b>	<b>S</b>	1.6509E8	<b>Pr &gt;=  S </b>	<.0001	

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	20557
<b>99%</b>	20506
<b>95%</b>	20046
<b>90%</b>	19336
<b>75% Q3</b>	18337
<b>50% Median</b>	17110
<b>25% Q1</b>	15486
<b>10%</b>	14670
<b>5%</b>	14292
<b>1%</b>	13596
<b>0% Min</b>	13456

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
13456	19215	20557	19210
13458	19216	20557	19211
13459	19219	20557	19212
13459	19218	20557	19213
13459	19217	20557	19214

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: shot\_id (shot\_id)**

Moments			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	15328.1669	<b>Sum Observations</b>	393887906
<b>Std Deviation</b>	8860.4624	<b>Variance</b>	78507793.9
<b>Skewness</b>	0.00235396	<b>Kurtosis</b>	-1.1971707
<b>Uncorrected SS</b>	8.05492E12	<b>Corrected SS</b>	2.01734E12
<b>Coeff Variation</b>	57.8051011	<b>Std Error Mean</b>	55.273272

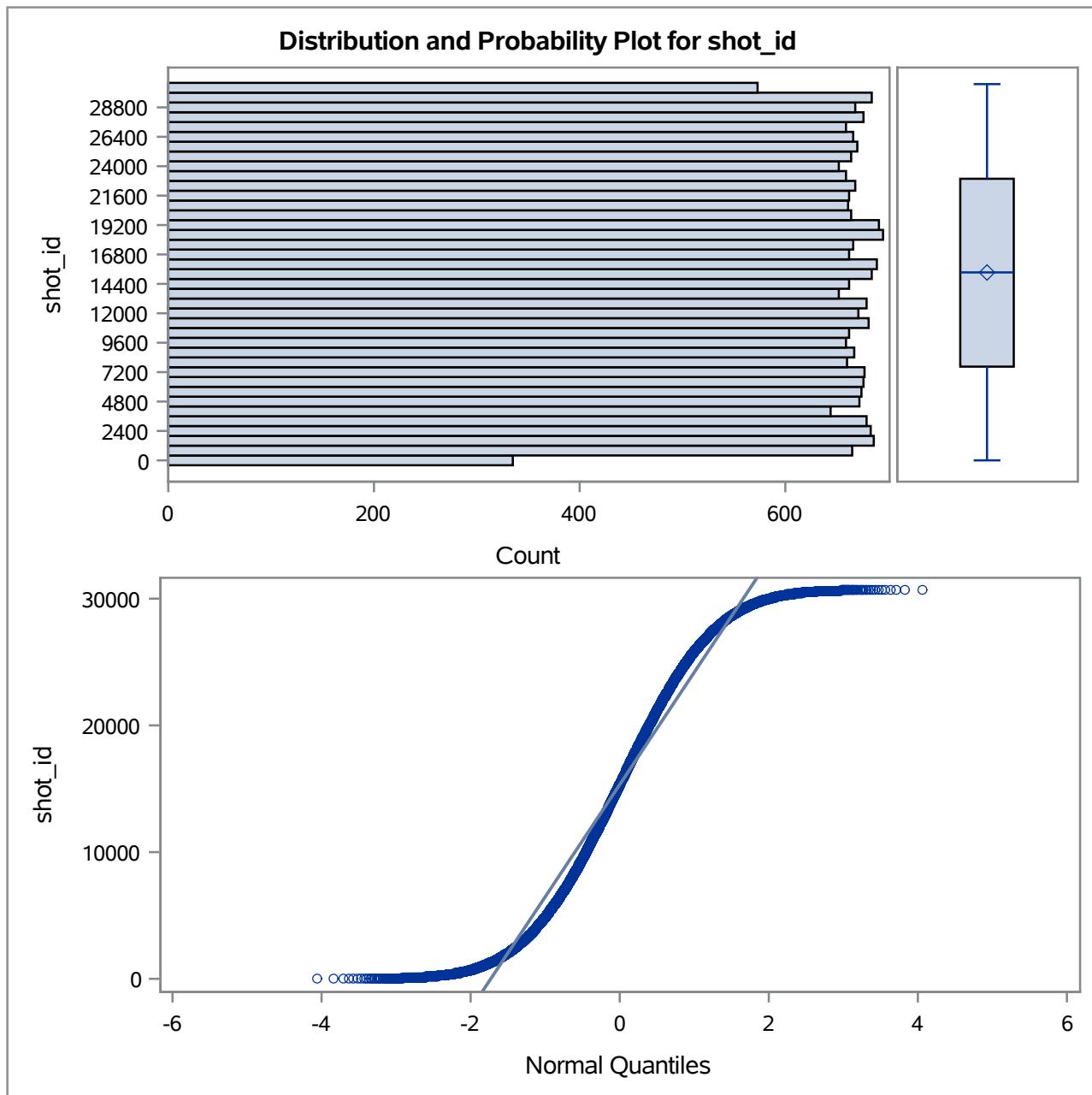
Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	15328.17	<b>Std Deviation</b>	8860
<b>Median</b>	15336.00	<b>Variance</b>	78507794
<b>Mode</b>	.	<b>Range</b>	30695
		<b>Interquartile Range</b>	15330

Tests for Location: Mu0=0				
Test	Statistic	p Value	Pr >  t	Pr >=  M
<b>Student's t</b>	<b>t</b>	277.3161	<.0001	
<b>Sign</b>	<b>M</b>	12848.5	<.0001	
<b>Signed Rank S</b>		1.6509E8	<.0001	

Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	30697
<b>99%</b>	30380
<b>95%</b>	29164
<b>90%</b>	27638
<b>75% Q3</b>	22976
<b>50% Median</b>	15336
<b>25% Q1</b>	7646
<b>10%</b>	3039
<b>5%</b>	1522
<b>1%</b>	310
<b>0% Min</b>	2

Extreme Observations			
Value	Obs	Value	Obs
2	1	30692	25693
3	2	30693	25694
4	3	30695	25695
5	4	30696	25696
6	5	30697	25697

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: attendance (attendance)**

Moments			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	15040.6836	<b>Sum Observations</b>	386500447
<b>Std Deviation</b>	1076.22666	<b>Variance</b>	1158263.83
<b>Skewness</b>	0.0901571	<b>Kurtosis</b>	0.1341294
<b>Uncorrected SS</b>	5.84299E12	<b>Corrected SS</b>	2.97627E10
<b>Coeff Variation</b>	7.15543714	<b>Std Error Mean</b>	6.71370933

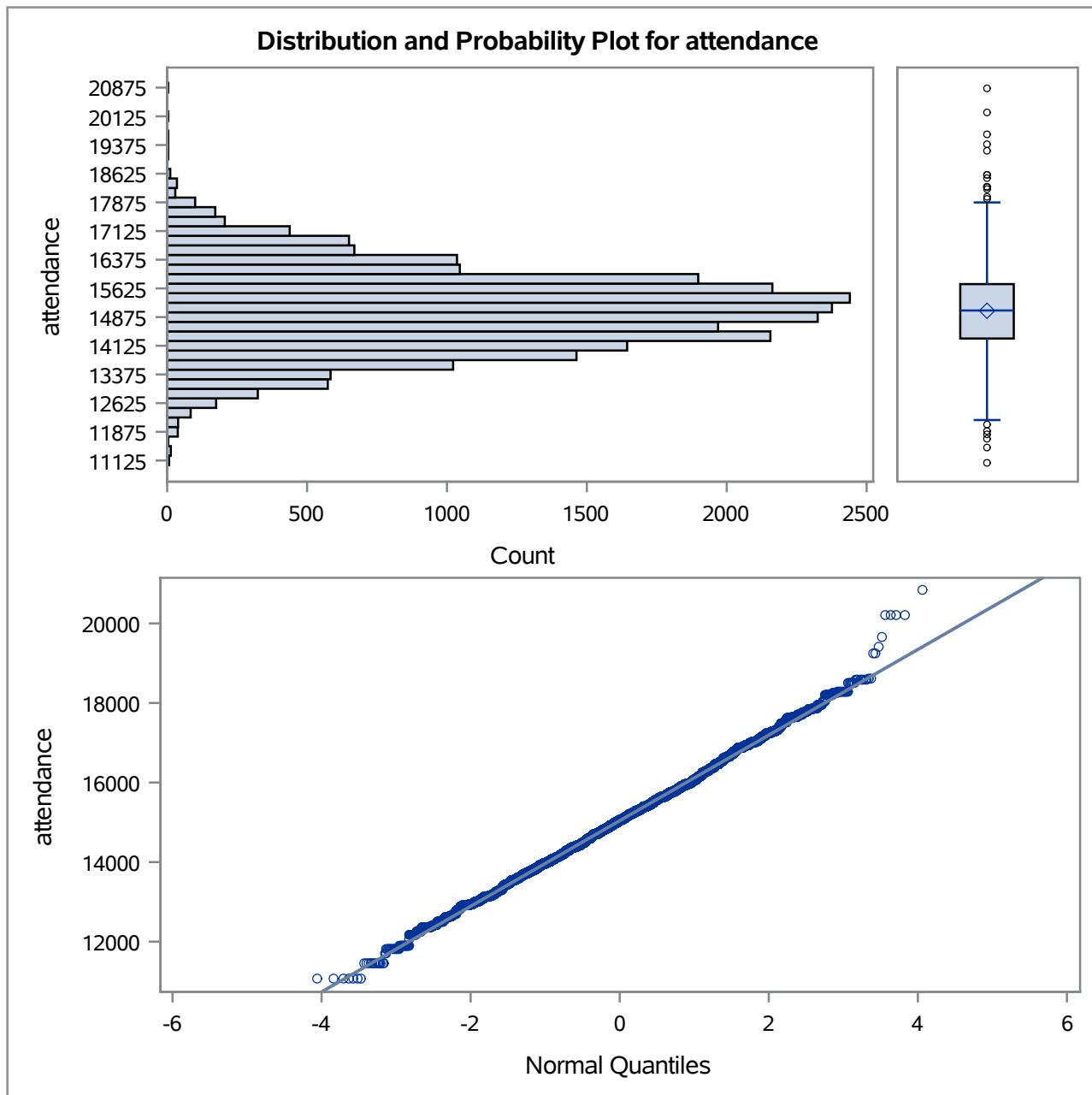
Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	15040.68	<b>Std Deviation</b>	1076
<b>Median</b>	15048.00	<b>Variance</b>	1158264
<b>Mode</b>	15286.00	<b>Range</b>	9780
		<b>Interquartile Range</b>	1424

Tests for Location: Mu0=0					
Test	Statistic	p Value			
Student's t	t	2240.294	Pr >  t	<.0001	
Sign	M	12848.5	Pr >=  M	<.0001	
Signed Rank	S	1.6509E8	Pr >=  S	<.0001	

Quantiles (Definition 5)	
Level	Quantile
100% Max	20845
99%	17655
95%	16887
90%	16448
75% Q3	15738
50% Median	15048
25% Q1	14314
10%	13691
5%	13259
1%	12603
0% Min	11065

Extreme Observations			
Lowest	Highest		
Value	Obs	Value	Obs
11065	19541	20221	19503
11065	19540	20221	19504
11065	19539	20221	19505
11065	19538	20221	19506
11065	19537	20845	19411

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: arena\_temp (arena\_temp)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	70.1077169	<b>Sum Observations</b>	1801558
<b>Std Deviation</b>	2.0301648	<b>Variance</b>	4.12156911
<b>Skewness</b>	0.06812158	<b>Kurtosis</b>	-0.033463
<b>Uncorrected SS</b>	126409026	<b>Corrected SS</b>	105907.84
<b>Coeff Variation</b>	2.89577936	<b>Std Error Mean</b>	0.01266456

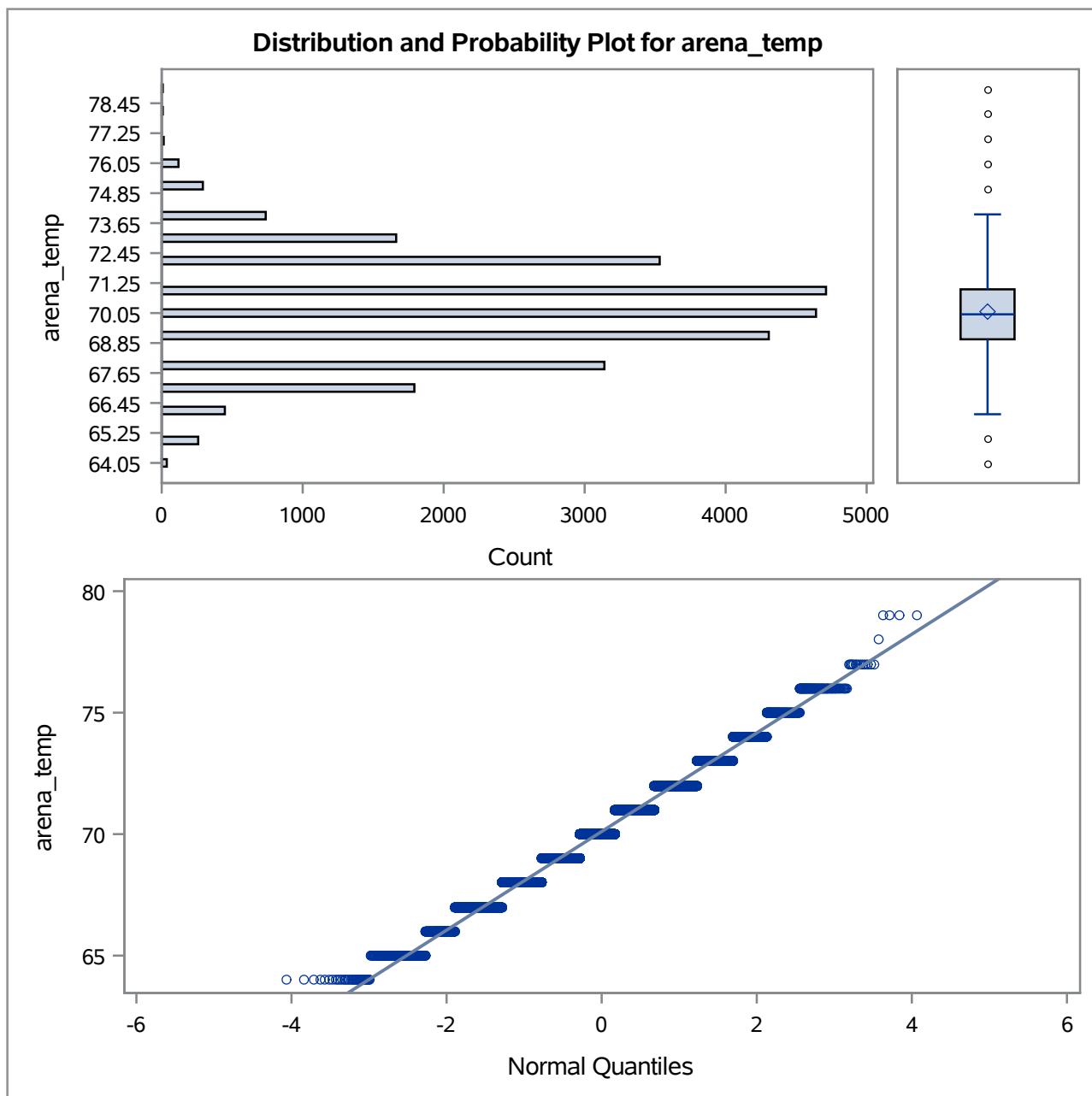
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	70.10772	<b>Std Deviation</b>	2.03016
<b>Median</b>	70.00000	<b>Variance</b>	4.12157
<b>Mode</b>	71.00000	<b>Range</b>	15.00000
		<b>Interquartile Range</b>	2.00000

<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b>	t	5535.741	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	M	12848.5	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank S</b>		1.6509E8	<b>Pr &gt;=  S </b>	<.0001

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	79
<b>99%</b>	75
<b>95%</b>	73
<b>90%</b>	73
<b>75% Q3</b>	71
<b>50% Median</b>	70
<b>25% Q1</b>	69
<b>10%</b>	68
<b>5%</b>	67
<b>1%</b>	65
<b>0% Min</b>	64

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
64	1839	78	25227
64	1838	79	19503
64	1837	79	19504
64	1836	79	19505
64	1835	79	19506

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: avgnoisedb (avgnoisedb)**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	94.9513686	<b>Sum Observations</b>	2439965.32
<b>Std Deviation</b>	2.28170727	<b>Variance</b>	5.20618806
<b>Skewness</b>	0.10195046	<b>Kurtosis</b>	0.07992449
<b>Uncorrected SS</b>	231811825	<b>Corrected SS</b>	133778.208
<b>Coeff Variation</b>	2.40302726	<b>Std Error Mean</b>	0.01423373

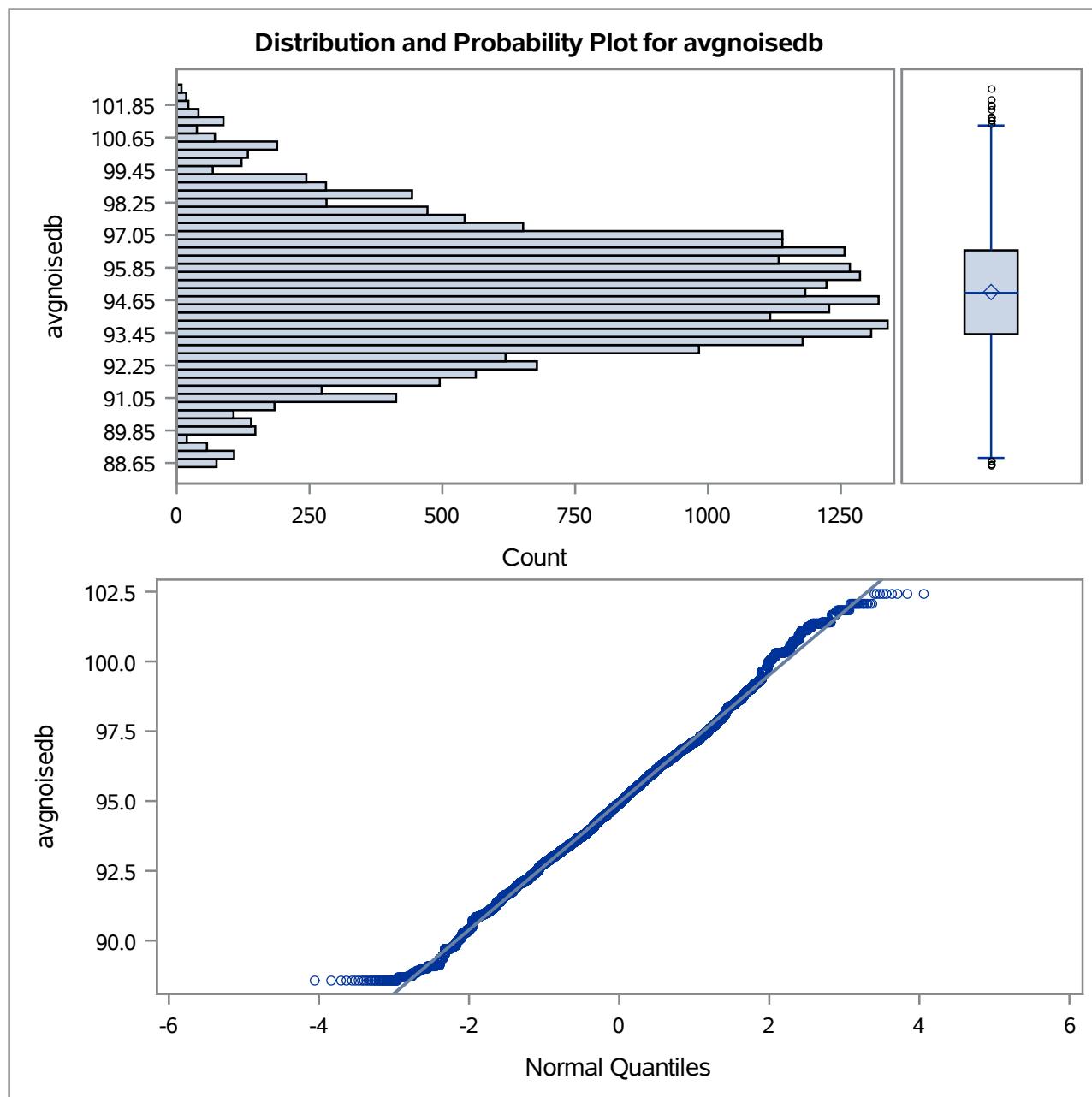
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	94.95137	<b>Std Deviation</b>	2.28171
<b>Median</b>	94.92000	<b>Variance</b>	5.20619
<b>Mode</b>	94.50000	<b>Range</b>	13.87000
		<b>Interquartile Range</b>	3.09000

<b>Tests for Location: Mu0=0</b>					
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>			
<b>Student's t</b>	<b>t</b>	6670.871	<b>Pr &gt;  t </b>	<.0001	
<b>Sign</b>	<b>M</b>	12848.5	<b>Pr &gt;=  M </b>	<.0001	
<b>Signed Rank</b>	<b>S</b>	1.6509E8	<b>Pr &gt;=  S </b>	<.0001	

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	102.43
<b>99%</b>	100.72
<b>95%</b>	98.75
<b>90%</b>	97.75
<b>75% Q3</b>	96.49
<b>50% Median</b>	94.92
<b>25% Q1</b>	93.40
<b>10%</b>	92.08
<b>5%</b>	91.22
<b>1%</b>	89.50
<b>0% Min</b>	88.56

<b>Extreme Observations</b>			
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
88.56	10854	102.43	16277
88.56	10853	102.43	16278
88.56	10852	102.43	16279
88.56	10851	102.43	16280
88.56	10850	102.43	16281

## The UNIVARIATE Procedure



Obs	recid	action_type	combined_shot_type	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period
1	1	Jump Shot	Jump Shot	12	20000012	34.0443	-157	0	-118.4268	10	1
2	2	Jump Shot	Jump Shot	35	20000012	33.9093	-101	135	-118.3708	7	1
3	3	Jump Shot	Jump Shot	43	20000012	33.8693	138	175	-118.1318	6	1
4	4	Driving Dunk Shot	Dunk	155	20000012	34.0443	0	0	-118.2698	6	2
5	5	Jump Shot	Jump Shot	244	20000012	34.0553	-145	-11	-118.4148	9	3
6	6	Layup Shot	Layup	251	20000012	34.0443	0	0	-118.2698	8	3
7	7	Jump Shot	Jump Shot	265	20000012	33.9363	-65	108	-118.3348	6	3
8	8	Running Jump Shot	Jump Shot	294	20000012	33.9193	-33	125	-118.3028	3	3
9	9	Jump Shot	Jump Shot	309	20000012	33.8063	-94	238	-118.3638	1	3
10	12	Jump Shot	Jump Shot	4	20000019	33.9173	121	127	-118.1488	11	1

Obs	playoffs	season	seconds_remaining	shot_distance	shot_made_flag	shot_type	shot_zone_area	shot_zone_basic	shot_zone_range		
1	0	2000-01	22	15	0	2PT Field Goal	Left Side(L)	Mid-Range	8-16 ft.		
2	0	2000-01	45	16	1	2PT Field Goal	Left Side Center(LC)	Mid-Range	16-24 ft.		
3	0	2000-01	52	22	0	2PT Field Goal	Right Side Center(RC)	Mid-Range	16-24 ft.		
4	0	2000-01	19	0	1	2PT Field Goal	Center(C)	Restricted Area	Less Than 8 ft.		
5	0	2000-01	32	14	0	2PT Field Goal	Left Side(L)	Mid-Range	8-16 ft.		
6	0	2000-01	52	0	1	2PT Field Goal	Center(C)	Restricted Area	Less Than 8 ft.		
7	0	2000-01	12	12	1	2PT Field Goal	Left Side(L)	In The Paint (Non-RA)	8-16 ft.		
8	0	2000-01	36	12	0	2PT Field Goal	Center(C)	In The Paint (Non-RA)	8-16 ft.		
9	0	2000-01	56	25	0	3PT Field Goal	Left Side Center(LC)	Above the Break 3	24+ ft.		
10	0	2000-01	0	17	1	2PT Field Goal	Right Side Center(RC)	Mid-Range	16-24 ft.		

Obs	team_id	team_name	game_date	matchup	opponent	shot_id	attendance	arena_temp	avgnoisedb	periods_remaining2	
1	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	2	14707	69	94.06	14	
2	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	3	14707	69	94.06	14	
3	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	4	14707	69	94.06	14	
4	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	5	14707	69	94.06	28	
5	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	6	14707	69	94.06	42	
6	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	7	14707	69	94.06	42	
7	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	9	14707	69	94.06	42	
8	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	10	14707	69	94.06	42	
9	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	11	14707	69	94.06	42	
10	1610612747	Los Angeles Lakers	11/01/2000	LAL vs. UTA	UTA	12	15851	69	95.71	14	

Obs	recid	action_type	combined_shot_type	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period	playoffs
1	1	Jump Shot	Jump Shot		12 20000012	34.0443	-157	0	-118.4268	10	1	0
2	2	Jump Shot	Jump Shot		35 20000012	33.9093	-101	135	-118.3708	7	1	0
3	3	Jump Shot	Jump Shot		43 20000012	33.8693	138	175	-118.1318	6	1	0
4	4	Driving Dunk Shot	Dunk		155 20000012	34.0443	0	0	-118.2698	6	2	0
5	5	Jump Shot	Jump Shot		244 20000012	34.0553	-145	-11	-118.4148	9	3	0
6	6	Layup Shot	Layup		251 20000012	34.0443	0	0	-118.2698	8	3	0
7	7	Jump Shot	Jump Shot		265 20000012	33.9363	-65	108	-118.3348	6	3	0
8	8	Running Jump Shot	Jump Shot		294 20000012	33.9193	-33	125	-118.3028	3	3	0

Obs	season	seconds_remaining	shot_distance	shot_made_flag	shot_type	shot_zone_area	shot_zone_basic	shot_zone_range	team_id
1	2000-01	22	15	0	2PT Field Goal	Left Side(L)	Mid-Range	8-16 ft.	1610612747
2	2000-01	45	16	1	2PT Field Goal	Left Side Center(LC)	Mid-Range	16-24 ft.	1610612747
3	2000-01	52	22	0	2PT Field Goal	Right Side Center(RC)	Mid-Range	16-24 ft.	1610612747
4	2000-01	19	0	1	2PT Field Goal	Center(C)	Restricted Area	Less Than 8 ft.	1610612747
5	2000-01	32	14	0	2PT Field Goal	Left Side(L)	Mid-Range	8-16 ft.	1610612747
6	2000-01	52	0	1	2PT Field Goal	Center(C)	Restricted Area	Less Than 8 ft.	1610612747
7	2000-01	12	12	1	2PT Field Goal	Left Side(L)	In The Paint (Non-RA)	8-16 ft.	1610612747
8	2000-01	36	12	0	2PT Field Goal	Center(C)	In The Paint (Non-RA)	8-16 ft.	1610612747

Obs	team_name	game_date	matchup	opponent	shot_id	attendance	arena_temp	avgnoisedb	periods_remaining2	minutes_remaining2
1	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	2	14707	69	94.06	14	90
2	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	3	14707	69	94.06	14	63
3	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	4	14707	69	94.06	14	54
4	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	5	14707	69	94.06	28	54
5	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	6	14707	69	94.06	42	81
6	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	7	14707	69	94.06	42	72
7	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	9	14707	69	94.06	42	54
8	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	10	14707	69	94.06	42	27

Obs	recid	action_type	combined_shot_type	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period	playoffs	
9	9	Jump Shot	Jump Shot		309 20000012	33.8063	-94	238	-118.3638		1	3	0
10	12	Jump Shot	Jump Shot		4 20000019	33.9173	121	127	-118.1488		11	1	0
<hr/>													
Obs	season	seconds_remaining	shot_distance	shot_made_flag	shot_type	shot_zone_area	shot_zone_basic	shot_zone_range	team_id				
9	2000-01	56	25	0	3PT Field Goal	Left Side Center(LC)	Above the Break 3	24+ ft.				1610612747	
10	2000-01	0	17	1	2PT Field Goal	Right Side Center(RC)	Mid-Range	16-24 ft.				1610612747	
<hr/>													
Obs	team_name	game_date	matchup	opponent	shot_id	attendance	arena_temp	avgnoisedb	periods_remaining2	minutes_remaining2			
9	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	11	14707	69	94.06	42	09			
10	Los Angeles Lakers	11/01/2000	LAL vs. UTA	UTA	12	15851	69	95.71	14	99			

Obs	recid	action_type	combined_shot_type	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period	playoffs	season	
1	1	Jump Shot	Jump Shot		12	20000012	34.0443	-157	0	-118.4268		10	1	0 2000-01
2	2	Jump Shot	Jump Shot		35	20000012	33.9093	-101	135	-118.3708		7	1	0 2000-01
3	3	Jump Shot	Jump Shot		43	20000012	33.8693	138	175	-118.1318		6	1	0 2000-01
4	4	Driving Dunk Shot	Dunk		155	20000012	34.0443	0	0	-118.2698		6	2	0 2000-01
5	5	Jump Shot	Jump Shot		244	20000012	34.0553	-145	-11	-118.4148		9	3	0 2000-01
6	6	Layup Shot	Layup		251	20000012	34.0443	0	0	-118.2698		8	3	0 2000-01
7	7	Jump Shot	Jump Shot		265	20000012	33.9363	-65	108	-118.3348		6	3	0 2000-01
8	8	Running Jump Shot	Jump Shot		294	20000012	33.9193	-33	125	-118.3028		3	3	0 2000-01

Obs	seconds_remaining	shot_distance	shot_made_flag	shot_type	shot_zone_area	shot_zone_basic	shot_zone_range	team_id	team_name
1	22	15	0	2PT Field Goal	Left Side(L)	Mid-Range	8-16 ft.	1610612747	Los Angeles Lakers
2	45	16	1	2PT Field Goal	Left Side Center(LC)	Mid-Range	16-24 ft.	1610612747	Los Angeles Lakers
3	52	22	0	2PT Field Goal	Right Side Center(RC)	Mid-Range	16-24 ft.	1610612747	Los Angeles Lakers
4	19	0	1	2PT Field Goal	Center(C)	Restricted Area	Less Than 8 ft.	1610612747	Los Angeles Lakers
5	32	14	0	2PT Field Goal	Left Side(L)	Mid-Range	8-16 ft.	1610612747	Los Angeles Lakers
6	52	0	1	2PT Field Goal	Center(C)	Restricted Area	Less Than 8 ft.	1610612747	Los Angeles Lakers
7	12	12	1	2PT Field Goal	Left Side(L)	In The Paint (Non-RA)	8-16 ft.	1610612747	Los Angeles Lakers
8	36	12	0	2PT Field Goal	Center(C)	In The Paint (Non-RA)	8-16 ft.	1610612747	Los Angeles Lakers

Obs	game_date	matchup	opponent	shot_id	attendance	arena_temp	avgnoisedb	periods_remaining2	minutes_remaining2	seconds_remaining2
1	10/31/2000	LAL @ POR	POR	2	14707	69	94.06	14	90	36
2	10/31/2000	LAL @ POR	POR	3	14707	69	94.06	14	63	75
3	10/31/2000	LAL @ POR	POR	4	14707	69	94.06	14	54	87
4	10/31/2000	LAL @ POR	POR	5	14707	69	94.06	28	54	31
5	10/31/2000	LAL @ POR	POR	6	14707	69	94.06	42	81	53
6	10/31/2000	LAL @ POR	POR	7	14707	69	94.06	42	72	87
7	10/31/2000	LAL @ POR	POR	9	14707	69	94.06	42	54	20
8	10/31/2000	LAL @ POR	POR	10	14707	69	94.06	42	27	60

Obs	recid	action_type	combined_shot_type	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period	playoffs	season
9	9	Jump Shot	Jump Shot		309 20000012	33.8063	-94	238	-118.3638		1	3	0 2000-01
10	12	Jump Shot	Jump Shot		4 20000019	33.9173	121	127	-118.1488		11	1	0 2000-01
<hr/>													
Obs	seconds_remaining	shot_distance	shot_made_flag	shot_type	shot_zone_area	shot_zone_basic	shot_zone_range	team_id	team_name				
9	56	25	0	3PT Field Goal	Left Side Center(LC)	Above the Break	3 24+ ft.	1610612747	Los Angeles Lakers				
10	0	17	1	2PT Field Goal	Right Side Center(RC)	Mid-Range	16-24 ft.	1610612747	Los Angeles Lakers				
<hr/>													
Obs	game_date	matchup	opponent	shot_id	attendance	arena_temp	avgnoisedb	periods_remaining2	minutes_remaining2	seconds_remaining2			
9	10/31/2000	LAL @ POR	POR	11	14707	69	94.06	42	09				94
10	11/01/2000	LAL vs. UTA	UTA	12	15851	69	95.71	14	99				00

Obs	recid	action_type	combined_shot_type	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period
1	1	Jump Shot	Jump Shot	12	20000012	34.0443	-157	0	-118.4268	10	1
2	2	Jump Shot	Jump Shot	35	20000012	33.9093	-101	135	-118.3708	7	1
3	3	Jump Shot	Jump Shot	43	20000012	33.8693	138	175	-118.1318	6	1
4	4	Driving Dunk Shot	Dunk	155	20000012	34.0443	0	0	-118.2698	6	2
5	5	Jump Shot	Jump Shot	244	20000012	34.0553	-145	-11	-118.4148	9	3
6	6	Layup Shot	Layup	251	20000012	34.0443	0	0	-118.2698	8	3
7	7	Jump Shot	Jump Shot	265	20000012	33.9363	-65	108	-118.3348	6	3
8	8	Running Jump Shot	Jump Shot	294	20000012	33.9193	-33	125	-118.3028	3	3
9	9	Jump Shot	Jump Shot	309	20000012	33.8063	-94	238	-118.3638	1	3
10	12	Jump Shot	Jump Shot	4	20000019	33.9173	121	127	-118.1488	11	1

Obs	playoffs	season	seconds_remaining	shot_distance	shot_made_flag	shot_type	shot_zone_area	shot_zone_basic
1	0	2000-01	22	15	0	2PT Field Goal	Left Side(L)	Mid-Range
2	0	2000-01	45	16	1	2PT Field Goal	Left Side Center(LC)	Mid-Range
3	0	2000-01	52	22	0	2PT Field Goal	Right Side Center(RC)	Mid-Range
4	0	2000-01	19	0	1	2PT Field Goal	Center(C)	Restricted Area
5	0	2000-01	32	14	0	2PT Field Goal	Left Side(L)	Mid-Range
6	0	2000-01	52	0	1	2PT Field Goal	Center(C)	Restricted Area
7	0	2000-01	12	12	1	2PT Field Goal	Left Side(L)	In The Paint (Non-RA)
8	0	2000-01	36	12	0	2PT Field Goal	Center(C)	In The Paint (Non-RA)
9	0	2000-01	56	25	0	3PT Field Goal	Left Side Center(LC)	Above the Break 3
10	0	2000-01	0	17	1	2PT Field Goal	Right Side Center(RC)	Mid-Range

Obs	shot_zone_range	team_id	team_name	game_date	matchup	opponent	shot_id	attendance	arena_temp	avgnoisedb
1	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	2	14707	69	94.06
2	16-24 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	3	14707	69	94.06
3	16-24 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	4	14707	69	94.06
4	Less Than 8 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	5	14707	69	94.06
5	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	6	14707	69	94.06
6	Less Than 8 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	7	14707	69	94.06
7	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	9	14707	69	94.06
8	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	10	14707	69	94.06
9	24+ ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	11	14707	69	94.06
10	16-24 ft.	1610612747	Los Angeles Lakers	11/01/2000	LAL vs. UTA	UTA	12	15851	69	95.71

Obs	periods_remaining2	minutes_remaining2	seconds_remaining2	pms_remaining
1	14	90	36	149036
2	14	63	75	146375
3	14	54	87	145487
4	28	54	31	285431
5	42	81	53	428153
6	42	72	87	427287
7	42	54	20	425420
8	42	27	60	422760
9	42	09	94	420994
10	14	99	00	149900

Obs	recid	action_type	combined_shot_type	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period
1	1	Jump Shot	Jump Shot	12	20000012	34.0443	-157	0	-118.4268	10	1
2	2	Jump Shot	Jump Shot	35	20000012	33.9093	-101	135	-118.3708	7	1
3	3	Jump Shot	Jump Shot	43	20000012	33.8693	138	175	-118.1318	6	1
4	4	Driving Dunk Shot	Dunk	155	20000012	34.0443	0	0	-118.2698	6	2
5	5	Jump Shot	Jump Shot	244	20000012	34.0553	-145	-11	-118.4148	9	3
6	6	Layup Shot	Layup	251	20000012	34.0443	0	0	-118.2698	8	3
7	7	Jump Shot	Jump Shot	265	20000012	33.9363	-65	108	-118.3348	6	3
8	8	Running Jump Shot	Jump Shot	294	20000012	33.9193	-33	125	-118.3028	3	3
9	9	Jump Shot	Jump Shot	309	20000012	33.8063	-94	238	-118.3638	1	3
10	12	Jump Shot	Jump Shot	4	20000019	33.9173	121	127	-118.1488	11	1

Obs	playoffs	season	seconds_remaining	shot_distance	shot_made_flag	shot_type	shot_zone_area	shot_zone_basic
1	0	2000-01	22	15	0	2PT Field Goal	Left Side(L)	Mid-Range
2	0	2000-01	45	16	1	2PT Field Goal	Left Side Center(LC)	Mid-Range
3	0	2000-01	52	22	0	2PT Field Goal	Right Side Center(RC)	Mid-Range
4	0	2000-01	19	0	1	2PT Field Goal	Center(C)	Restricted Area
5	0	2000-01	32	14	0	2PT Field Goal	Left Side(L)	Mid-Range
6	0	2000-01	52	0	1	2PT Field Goal	Center(C)	Restricted Area
7	0	2000-01	12	12	1	2PT Field Goal	Left Side(L)	In The Paint (Non-RA)
8	0	2000-01	36	12	0	2PT Field Goal	Center(C)	In The Paint (Non-RA)
9	0	2000-01	56	25	0	3PT Field Goal	Left Side Center(LC)	Above the Break 3
10	0	2000-01	0	17	1	2PT Field Goal	Right Side Center(RC)	Mid-Range

Obs	shot_zone_range	team_id	team_name	game_date	matchup	opponent	shot_id	attendance	arena_temp	avgnoisedb
1	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	2	14707	69	94.06
2	16-24 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	3	14707	69	94.06
3	16-24 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	4	14707	69	94.06
4	Less Than 8 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	5	14707	69	94.06
5	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	6	14707	69	94.06
6	Less Than 8 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	7	14707	69	94.06
7	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	9	14707	69	94.06
8	8-16 ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	10	14707	69	94.06
9	24+ ft.	1610612747	Los Angeles Lakers	10/31/2000	LAL @ POR	POR	11	14707	69	94.06
10	16-24 ft.	1610612747	Los Angeles Lakers	11/01/2000	LAL vs. UTA	UTA	12	15851	69	95.71

Obs	periods_remaining2	minutes_remaining2	seconds_remaining2	pms_remaining
1	14	90	36	149036
2	14	63	75	146375
3	14	54	87	145487
4	28	54	31	285431
5	42	81	53	428153
6	42	72	87	427287
7	42	54	20	425420
8	42	27	60	422760
9	42	09	94	420994
10	14	99	00	149900

**The UNIVARIATE Procedure**  
**Variable: pms\_remaining**

Moments			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	359832.186	<b>Sum Observations</b>	9246607691
<b>Std Deviation</b>	164433.312	<b>Variance</b>	2.70383E10
<b>Skewness</b>	0.08629716	<b>Kurtosis</b>	-1.1576782
<b>Uncorrected SS</b>	4.022E15	<b>Corrected SS</b>	6.94777E14
<b>Coeff Variation</b>	45.6972219	<b>Std Error Mean</b>	1025.76669

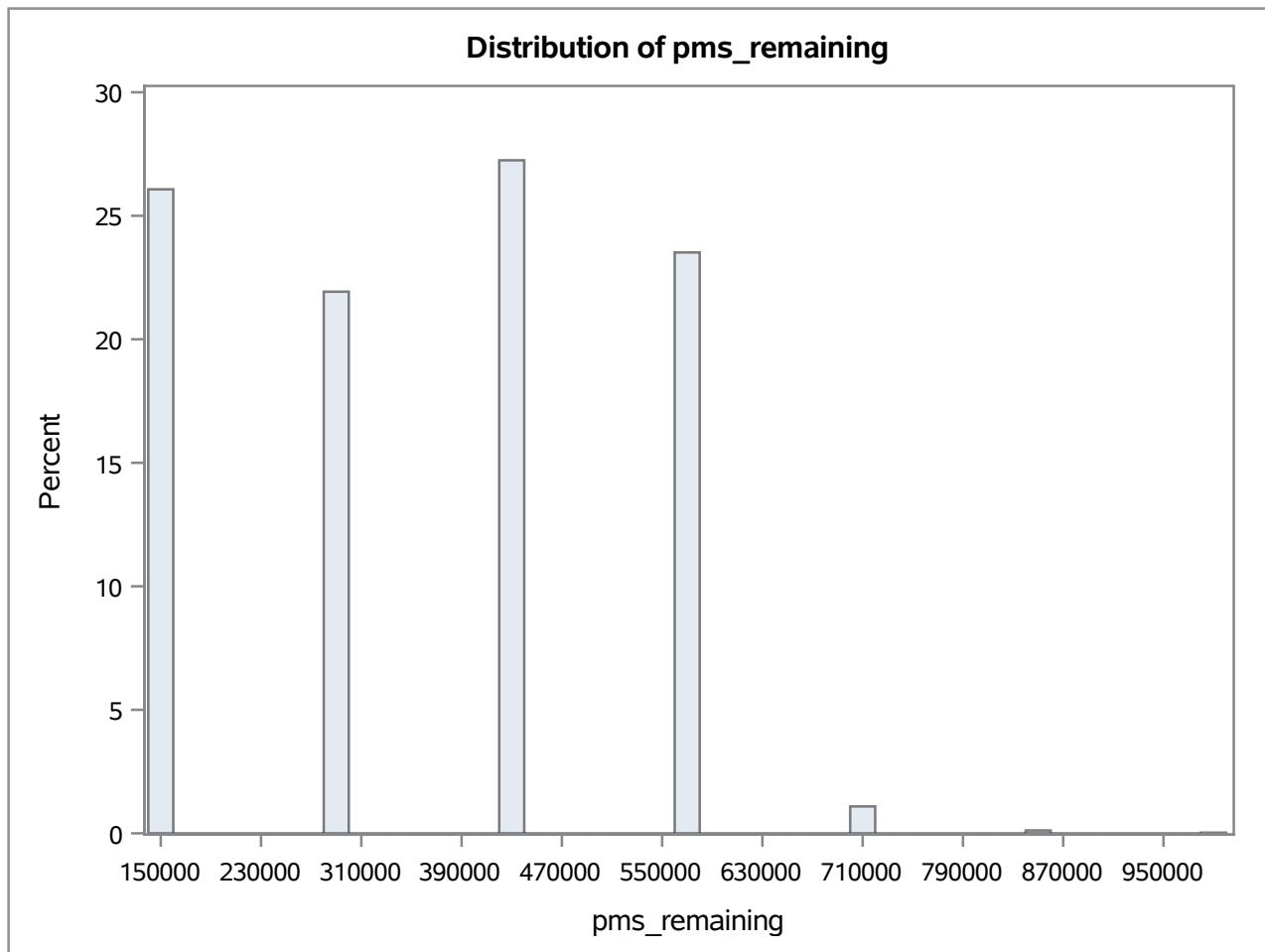
Basic Statistical Measures			
Location	Variability		
<b>Mean</b>	359832.2	<b>Std Deviation</b>	164433
<b>Median</b>	420062.0	<b>Variance</b>	2.70383E10
<b>Mode</b>	280000.0	<b>Range</b>	853606
		<b>Interquartile Range</b>	280044

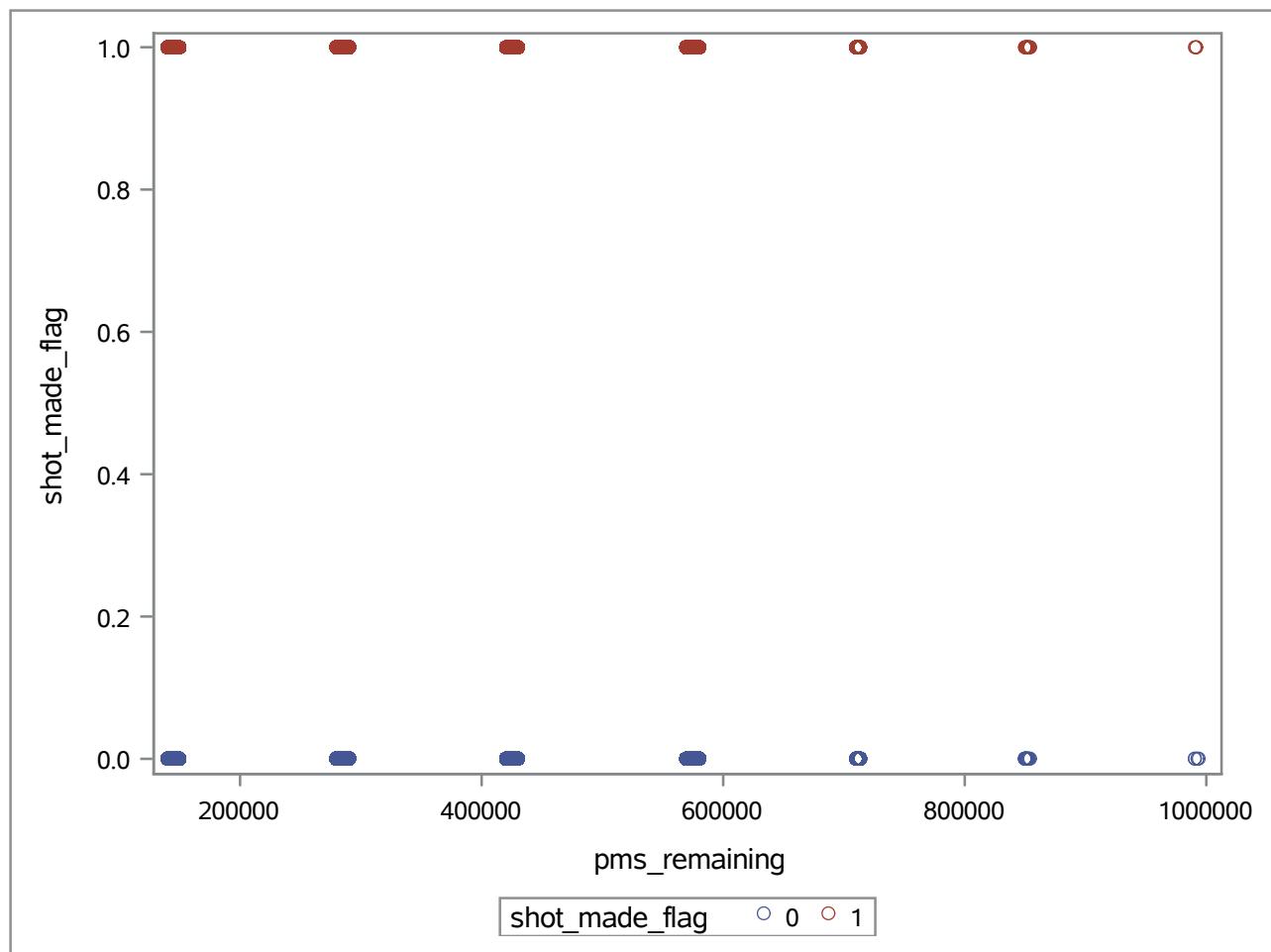
Tests for Location: Mu0=0				
Test	Statistic	p Value	Pr >  t	Pr >=  M
<b>Student's t</b>	<b>t</b>	350.7934	<.0001	
<b>Sign</b>	<b>M</b>	12848.5	<.0001	
<b>Signed Rank S</b>		1.6509E8	<.0001	

Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	993606
<b>99%</b>	710055
<b>95%</b>	578123
<b>90%</b>	575421
<b>75% Q3</b>	429972
<b>50% Median</b>	420062
<b>25% Q1</b>	149928
<b>10%</b>	143616
<b>5%</b>	141800
<b>1%</b>	140013
<b>0% Min</b>	140000

Extreme Observations			
Lowest	Highest	Value	Obs
140000	25632	990903	8583
140000	25419	991811	8582
140000	25243	991815	14949
140000	25229	992743	14948
140000	25167	993606	14947

## The UNIVARIATE Procedure





**The UNIVARIATE Procedure**  
**Variable: l\_shot\_distance**

<b>Moments</b>		
<b>N</b>	21089	<b>Sum Weights</b> 21089
<b>Mean</b>	2.61859304	<b>Sum Observations</b> 55223.5086
<b>Std Deviation</b>	0.71748364	<b>Variance</b> 0.51478277
<b>Skewness</b>	-1.7928805	<b>Kurtosis</b> 3.39090609
<b>Uncorrected SS</b>	155463.634	<b>Corrected SS</b> 10855.7392
<b>Coeff Variation</b>	27.3995856	<b>Std Error Mean</b> 0.00494065

<b>Basic Statistical Measures</b>		
<b>Location</b>	<b>Variability</b>	
<b>Mean</b> 2.618593	<b>Std Deviation</b> 0.71748	
<b>Median</b> 2.833213	<b>Variance</b> 0.51478	
<b>Mode</b> 3.218876	<b>Range</b> 4.36945	
	<b>Interquartile Range</b> 0.73760	

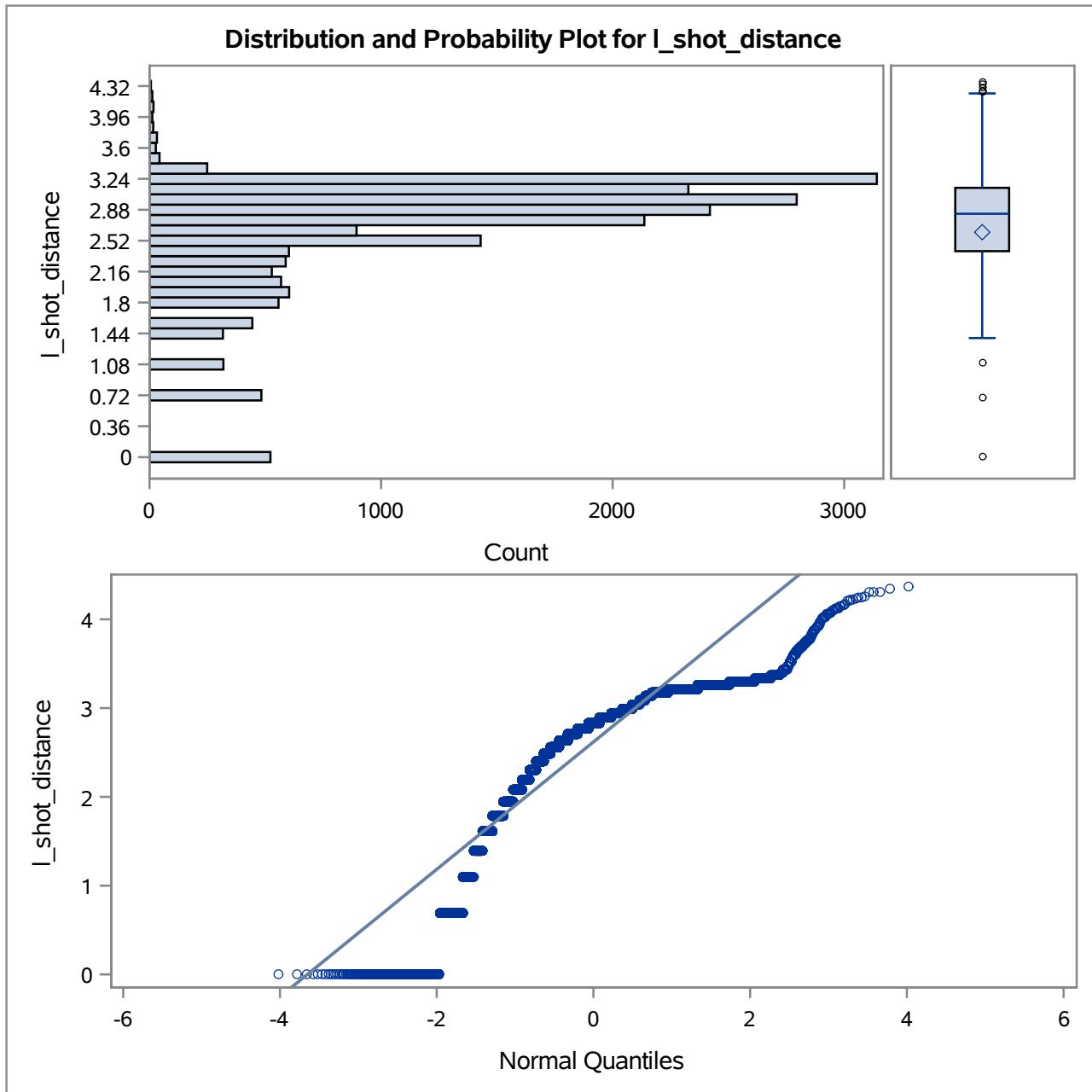
<b>Tests for Location: Mu0=0</b>				
<b>Test</b>	<b>Statistic</b>	<b>p Value</b>		
<b>Student's t</b> t	530.0099	<b>Pr &gt;  t </b> <.0001		
<b>Sign</b> M	10283.5	<b>Pr &gt;=  M </b> <.0001		
<b>Signed Rank S</b>	1.0576E8	<b>Pr &gt;=  S </b> <.0001		

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	4.36945
<b>99%</b>	3.36730
<b>95%</b>	3.25810
<b>90%</b>	3.21888
<b>75% Q3</b>	3.13549
<b>50% Median</b>	2.83321
<b>25% Q1</b>	2.39790
<b>10%</b>	1.79176
<b>5%</b>	1.09861
<b>1%</b>	0.00000
<b>0% Min</b>	0.00000

<b>Extreme Observations</b>			
<b>Lowest</b>	<b>Highest</b>		
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
0	25664	4.30407	5587
0	25658	4.30407	10936
0	25649	4.30407	24390
0	25335	4.34381	23433
0	25320	4.36945	24377

<b>Missing Values</b>			
<b>Percent Of</b>			
<b>Missing</b>	<b>Value</b>	<b>Count</b>	<b>Missing</b>
.		4608	17.93
			100.00

## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: I\_pms\_remaining**

<b>Moments</b>			
<b>N</b>	25697	<b>Sum Weights</b>	25697
<b>Mean</b>	12.6678278	<b>Sum Observations</b>	325525.172
<b>Std Deviation</b>	0.52741451	<b>Variance</b>	0.27816606
<b>Skewness</b>	-0.4349001	<b>Kurtosis</b>	-1.2304489
<b>Uncorrected SS</b>	4130844.58	<b>Corrected SS</b>	7147.75512
<b>Coeff Variation</b>	4.16341707	<b>Std Error Mean</b>	0.00329011

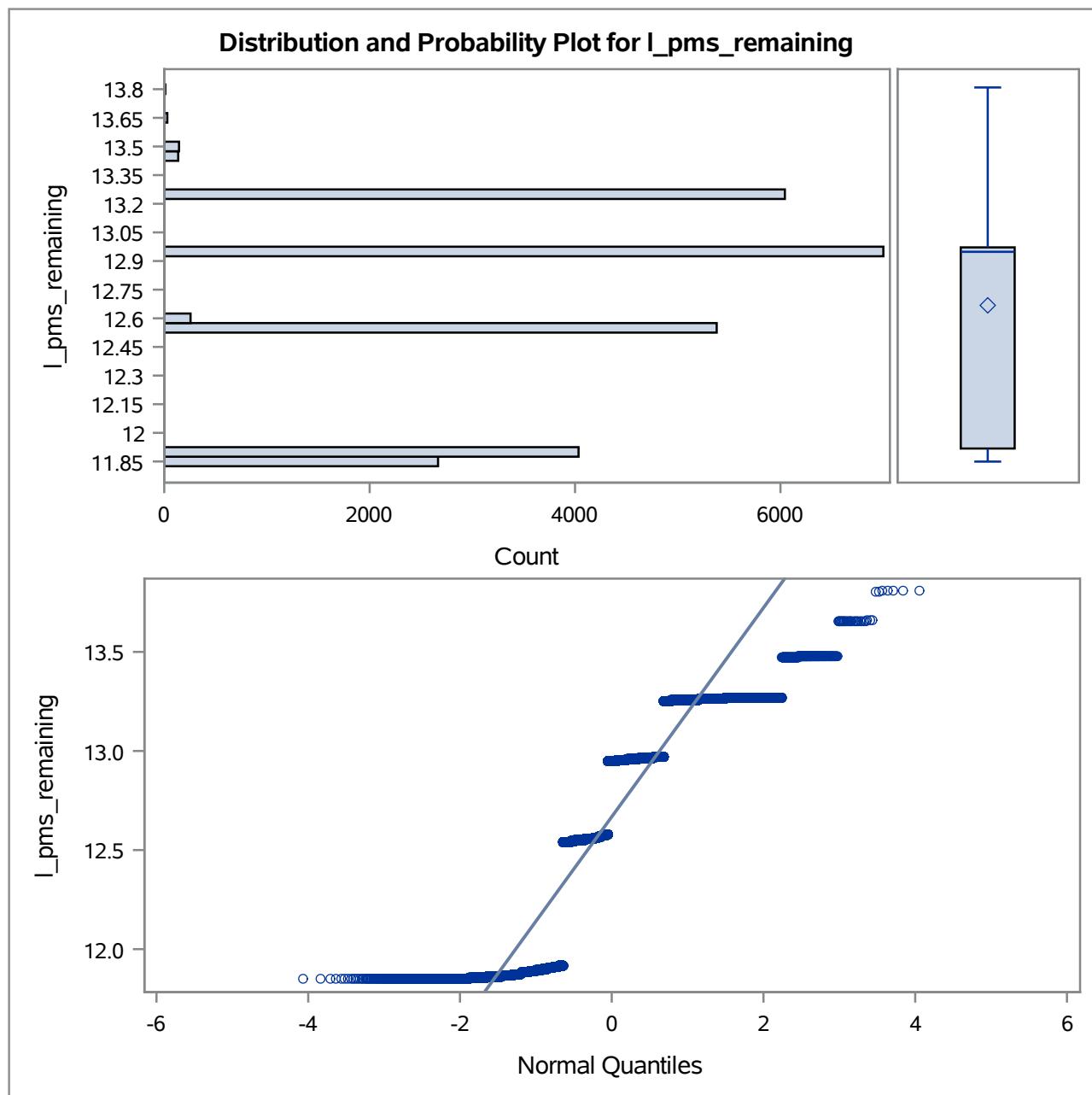
<b>Basic Statistical Measures</b>			
<b>Location</b>		<b>Variability</b>	
<b>Mean</b>	12.66783	<b>Std Deviation</b>	0.52741
<b>Median</b>	12.94816	<b>Variance</b>	0.27817
<b>Mode</b>	12.54254	<b>Range</b>	1.95970
		<b>Interquartile Range</b>	1.05356

<b>Tests for Location: Mu0=0</b>					
<b>Test</b>		<b>Statistic</b>		<b>p Value</b>	
<b>Student's t</b>	<b>t</b>	3850.271	<b>Pr &gt;  t </b>	<.0001	
<b>Sign</b>	<b>M</b>	12848.5	<b>Pr &gt;=  M </b>	<.0001	
<b>Signed Rank S</b>		1.6509E8	<b>Pr &gt;=  S </b>	<.0001	

<b>Quantiles (Definition 5)</b>	
<b>Level</b>	<b>Quantile</b>
<b>100% Max</b>	13.8091
<b>99%</b>	13.4731
<b>95%</b>	13.2675
<b>90%</b>	13.2629
<b>75% Q3</b>	12.9715
<b>50% Median</b>	12.9482
<b>25% Q1</b>	11.9179
<b>10%</b>	11.8749
<b>5%</b>	11.8622
<b>1%</b>	11.8495
<b>0% Min</b>	11.8494

<b>Extreme Observations</b>			
<b>Lowest</b>		<b>Highest</b>	
<b>Value</b>	<b>Obs</b>	<b>Value</b>	<b>Obs</b>
11.8494	25632	13.8064	8583
11.8494	25419	13.8073	8582
11.8494	25243	13.8073	14949
11.8494	25229	13.8082	14948
11.8494	25167	13.8091	14947

## The UNIVARIATE Procedure



## The PRINCOMP Procedure

<b>Observations</b>	25697
<b>Variables</b>	19

Simple Statistics																			
	recid	game_event_id	game_id	lat	loc_x	loc_y	lon	minutes_remaining	period	playoffs	seconds_remaining	shot_distance	shot_made_flag	team_id	game_date	shot_id	attendance	arena_temp	avgnoisedb
<b>Mean</b>	15326.18119	249.3486788	24741090.78	33.95304265	7.1484220	91.25734522	-118.2626516				4.886796124	2.520800093	0.1462427521						
<b>StD</b>	8860.24685	149.7785195	7738107.84	0.08815211	110.0731466	88.15210642	0.1100731				3.452475389	1.151626110	0.3533562912						

### The PRINCOMP Procedure

Covariance Matrix							
	recId	game_event_id	game_id	lat	loc_x	loc_y	
recId	recId	78503974.154	33603.784696	52189933369	-26.14144753	-12142.29199	26141.447533
game_event_id	game_event_id	33603.784696	22433.604913	-6933629.101	-0.7869428	-493.8449121	786.94279992
game_id	game_id	52189933369	-6933629.101	5.9878313E13	7749.4298907	-11025045.13	-7749429.891
lat	lat	-26.14144753	-0.7869428	7749.4298907	0.0077707939	0.1705643102	-7.770793866
loc_x	loc_x	-12142.29199	-493.8449121	-11025045.13	0.1705643102	12116.0976	-170.5643102
loc_y	loc_y	26141.447533	786.94279992	-7749429.891	-7.770793866	-170.5643102	7770.7938658
lon	lon	-12.14229199	-0.493844912	-11025.04513	0.0001705643	12.1160976	-0.17056431
minutes_remaining	minutes_remaining	-251.3421903	-141.8298059	255957.17692	0.0235558212	2.517152848	-23.55582125
period	period	-35.38079254	164.88448129	45103.953663	-0.00403405	-3.810411409	4.0340500071
playoffs	playoffs	1919.0999803	-0.421440499	2509816.9744	-0.000026693	-0.301477656	0.0266927413
seconds_remaining	seconds_remaining	-749.9211782	-49.00095434	-1224277.011	0.0892317989	2.9171362667	-89.23179895
shot_distance	shot_distance	1701.6193867	89.007955262	-1979518.481	-0.67710878	23.052600998	677.10878048
shot_made_flag	shot_made_flag	-57.30290029	-2.772089151	-6202.513812	0.0064885376	-0.04637524	-6.488537628
team_id	team_id	0	0	0	0	0	0
game_date	game_date	3275058.511	9794.1613589	-3308599242	-15.1308331	1103.2052978	15130.833099
shot_id	shot_id	78505882.497	33751.909837	52192528045	-26.14730814	-12144.94247	26147.308141
attendance	attendance	-171726.5103	-2821.977282	78091775.303	1.2948852266	752.86296197	-1294.885227
arena_temp	arena_temp	-55.36175007	-0.774678666	-615372.0944	0.0010571813	1.5454221637	-1.057181334
avgnoisedb	avgnoisedb	-32.60943814	-5.854144732	189532.89197	0.0023948016	-2.094418197	-2.394801558

### The PRINCOMP Procedure

	Covariance Matrix						
	lon	minutes_remaining	period	playoffs	seconds_remaining	shot_distance	shot_made_flag
recId	-12.14229199	-251.3421903	-35.38079254	1919.0999803	-749.9211782	1701.6193867	-57.30290029
game_event_id	-0.493844912	-141.8298059	164.88448129	-0.421440499	-49.00095434	89.007955262	-2.772089151
game_id	-11025.04513	255957.17692	45103.953663	2509816.9744	-1224277.011	-1979518.481	-6202.513812
lat	0.0001705643	0.0235558212	-0.00403405	-0.000026693	0.0892317989	-0.67710878	0.0064885376
loc_x	12.1160976	2.517152848	-3.810411409	-0.301477656	2.9171362667	23.052600998	-0.04637524
loc_y	-0.17056431	-23.55582125	4.0340500071	0.0266927413	-89.23179895	677.10878048	-6.488537628
lon	0.0121160976	0.0025171528	-0.003810411	-0.000301478	0.0029171363	0.023052601	-0.000046375
minutes_remaining	0.0025171528	11.919586314	-0.186954877	0.0116913203	1.4660379137	-2.079674162	0.0486411285
period	-0.003810411	-0.186954877	1.3262426973	0.0015890897	0.1443599958	0.5115458477	-0.018406486
playoffs	-0.000301478	0.0116913203	0.0015890897	0.1248606685	-0.03684696	-0.025714795	-0.00022078
seconds_remaining	0.0029171363	1.4660379137	0.1443599958	-0.03684696	307.06925979	-9.192695822	0.268331055
shot_distance	0.023052601	-2.079674162	0.5115458477	-0.025714795	-9.192695822	88.148153351	-0.925226007
shot_made_flag	-0.000046375	0.0486411285	-0.018406486	-0.00022078	0.268331055	-0.925226007	0.2471109817
team_id	0	0	0	0	0	0	0
game_date	1.1032052978	-147.5954398	-41.47401037	-34.88238737	249.91024792	1860.9827265	-16.60101113
shot_id	-12.14494247	-252.3919425	-34.25822044	1919.2143765	-750.3279719	1702.3713052	-57.32802891
attendance	0.752862962	-18.53406552	-20.17196821	0.6025433365	111.0848355	-228.7710464	51.698330058
arena_temp	0.0015454222	-0.049410479	-0.005976598	-0.033888541	0.0255144328	-0.218136759	0.0422644095
avgnoisedb	-0.002094418	-0.012675071	-0.03556221	0.0044799441	0.1159477214	-0.31306764	0.0610954435

### The PRINCOMP Procedure

Covariance Matrix						
	team_id	game_date	shot_id	attendance	arena_temp	avgnoisedb
recld	0	3275058.511	78505882.497	-171726.5103	-55.36175007	-32.60943814
game_event_id	0	9794.1613589	33751.909837	-2821.977282	-0.774678666	-5.854144732
game_id	0	-3308599242	52192528045	78091775.303	-615372.0944	189532.89197
lat	0	-15.1308331	-26.14730814	1.2948852266	0.0010571813	0.0023948016
loc_x	0	1103.2052978	-12144.94247	752.86296197	1.5454221637	-2.094418197
loc_y	0	15130.833099	26147.308141	-1294.885227	-1.057181334	-2.394801558
lon	0	1.1032052978	-12.14494247	0.752862962	0.0015454222	-0.002094418
minutes_remaining	0	-147.5954398	-252.3919425	-18.53406552	-0.049410479	-0.012675071
period	0	-41.47401037	-34.25822044	-20.17196821	-0.005976598	-0.03556221
playoffs	0	-34.88238737	1919.2143765	0.6025433365	-0.033888541	0.0044799441
seconds_remaining	0	249.91024792	-750.3279719	111.0848355	0.0255144328	0.1159477214
shot_distance	0	1860.9827265	1702.3713052	-228.7710464	-0.218136759	-0.31306764
shot_made_flag	0	-16.60101113	-57.32802891	51.698330058	0.0422644095	0.0610954435
team_id	0	0	0	0	0	0
game_date	0	3117648.1887	3274820.4196	-108249.8295	72.804564725	-75.82938679
shot_id	0	3274820.4196	78507793.891	-171715.5022	-55.53417284	-32.59170344
attendance	0	-108249.8295	-171715.5022	1158263.8281	173.59992754	1254.6248325
arena_temp	0	72.804564725	-55.53417284	173.59992754	4.121569106	0.1841816469
avgnoisedb	0	-75.82938679	-32.59170344	1254.6248325	0.1841816469	5.206188059

Total Variance 5.9878474E13

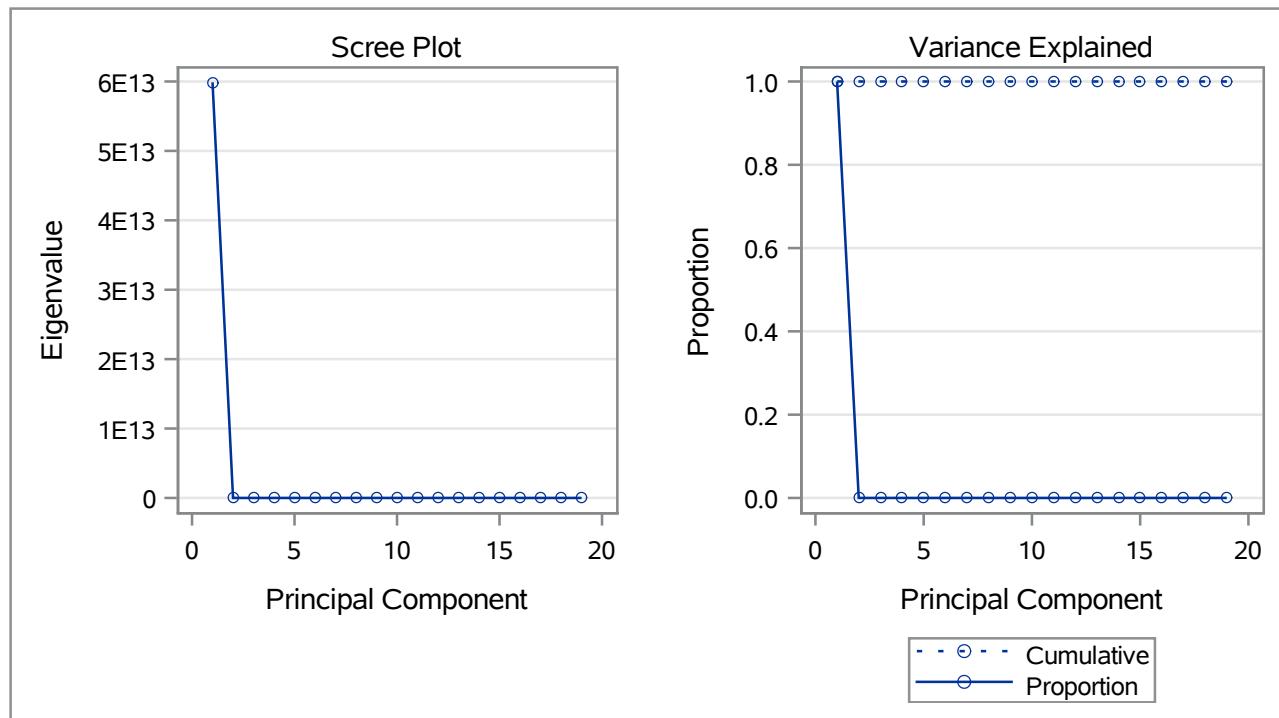
#### Eigenvalues of the Covariance Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	5.98784E13	5.98783E13	1.0000	1.0000
2	67211855.3	65451771.3	0.0000	1.0000
3	1760084.04	609237.751	0.0000	1.0000
4	1150846.29	1128404.68	0.0000	1.0000
5	22441.6139	10347.962	0.0000	1.0000
6	12093.6519	4381.28929	0.0000	1.0000
7	7712.36259	7406.50934	0.0000	1.0000
8	305.853253	277.180668	0.0000	1.0000
9	28.672585	17.6347219	0.0000	1.0000
10	11.0378632	11.0378632	0.0000	1.0000
11	0	0	0.0000	1.0000
12	0	0	0.0000	1.0000
13	0	0	0.0000	1.0000
14	0	0	0.0000	1.0000
15	0	0	0.0000	1.0000
16	0	0	0.0000	1.0000
17	0	0	0.0000	1.0000
18	0	0	0.0000	1.0000
19	0		0.0000	1.0000

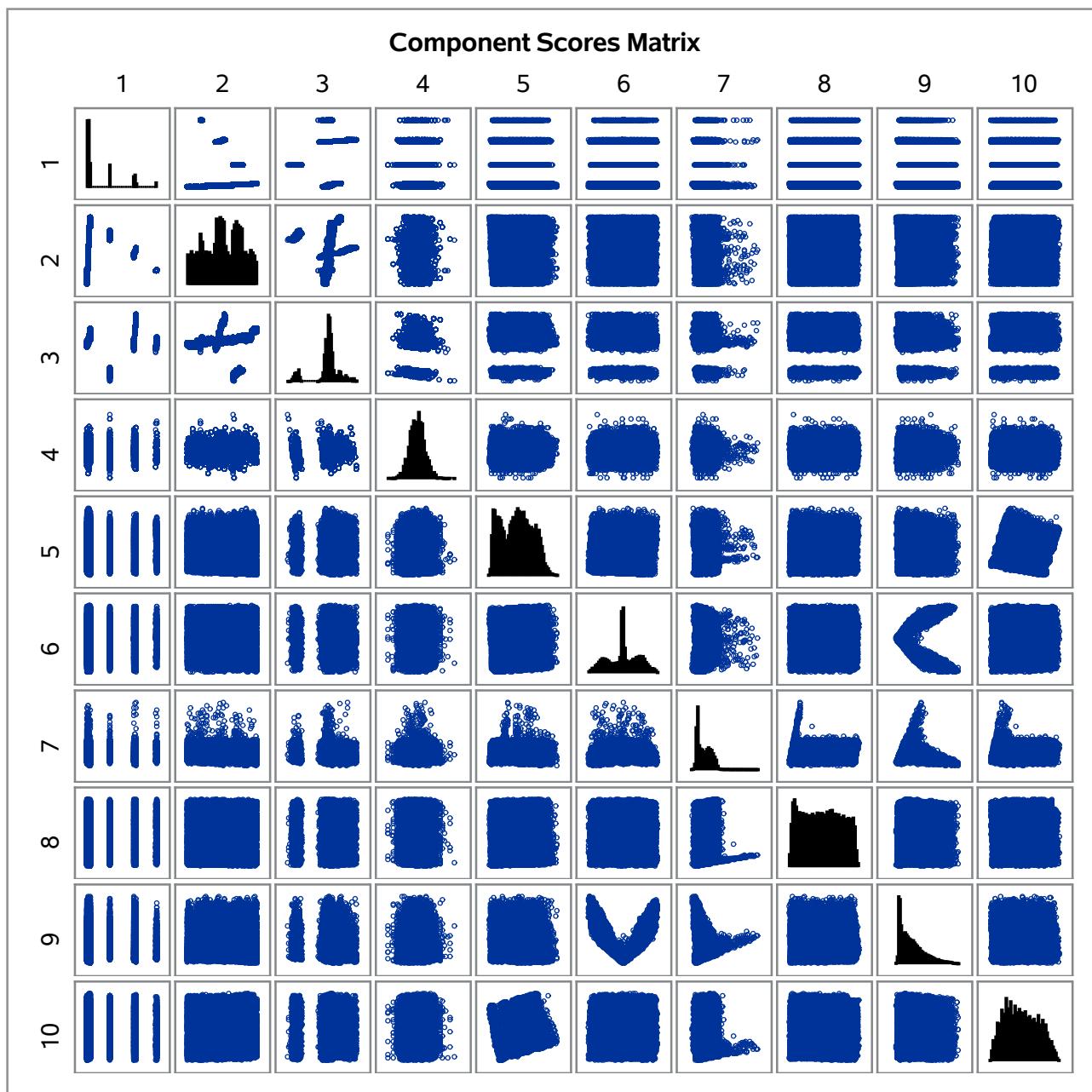
### The PRINCOMP Procedure

		Eigenvectors								
		Prin1	Prin2	Prin3	Prin4	Prin5	Prin6	Prin7	Prin8	Prin9
<b>recid</b>	recid	0.000872	0.700695	-0.094873	-0.005300	-0.003820	-0.000143	0.000023	-0.000007	-0.003228
<b>game_event_id</b>	game_event_id	-0.000000	0.000848	0.001160	-0.002066	0.997474	0.049909	-0.049279	0.001850	-0.000896
<b>game_id</b>	game_id	0.999999	-0.001214	0.000220	0.000013	0.000001	0.000000	-0.000000	0.000000	-0.000000
<b>lat</b>	lat	0.000000	-0.000001	-0.000005	0.000000	-0.000051	0.000031	-0.000994	-0.000012	0.000087
<b>loc_x</b>	loc_x	-0.000000	-0.000052	0.000511	0.000736	-0.048307	0.998272	0.033291	0.000049	-0.003134
<b>loc_y</b>	loc_y	-0.000000	0.000716	0.004784	-0.000209	0.050554	-0.030990	0.994374	0.012403	-0.086707
<b>lon</b>	lon	-0.000000	-0.000000	0.000001	0.000001	-0.000048	0.000998	0.000033	0.000000	-0.000003
<b>minutes_remaining</b>	minutes_remaining	0.000000	-0.000010	-0.000023	-0.000023	-0.006339	-0.000313	-0.002060	0.003213	0.006783
<b>period</b>	period	0.000000	-0.000002	-0.000013	-0.000020	0.007350	0.000358	-0.000520	0.001657	0.001195
<b>playoffs</b>	playoffs	0.000000	-0.000005	0.000087	0.000009	0.000000	0.000005	-0.000016	0.000016	-0.000016
<b>seconds_remaining</b>	seconds_remaining	-0.000000	0.000007	0.000062	0.000110	-0.002441	0.000245	-0.011884	0.999906	0.005118
<b>shot_distance</b>	shot_distance	-0.000000	0.000075	0.000626	-0.000084	0.005169	0.000488	0.086682	-0.004073	0.996092
<b>shot_made_flag</b>	shot_made_flag	-0.000000	-0.000001	-0.000007	0.000044	-0.000130	-0.000001	-0.000816	0.000602	-0.012258
<b>team_id</b>	team_id	0.000000	0.000000	0.000000	-0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
<b>game_date</b>	game_date	-0.000055	0.134284	0.986404	0.094600	-0.001278	-0.000471	-0.004788	-0.000131	-0.000199
<b>shot_id</b>	shot_id	0.000872	0.700688	-0.094889	-0.005299	0.002819	0.000274	-0.000064	0.000007	0.003250
<b>attendance</b>	attendance	0.000001	-0.005299	-0.094744	0.995484	0.002234	-0.000596	0.000545	-0.000091	0.000085
<b>arena_temp</b>	arena_temp	-0.000000	0.000010	-0.000039	0.000150	-0.000050	0.000113	-0.000152	-0.000076	-0.005144
<b>avgnoisedb</b>	avgnoisedb	0.000000	-0.000004	-0.000083	0.001082	-0.000123	-0.000249	-0.000151	-0.000085	0.001078

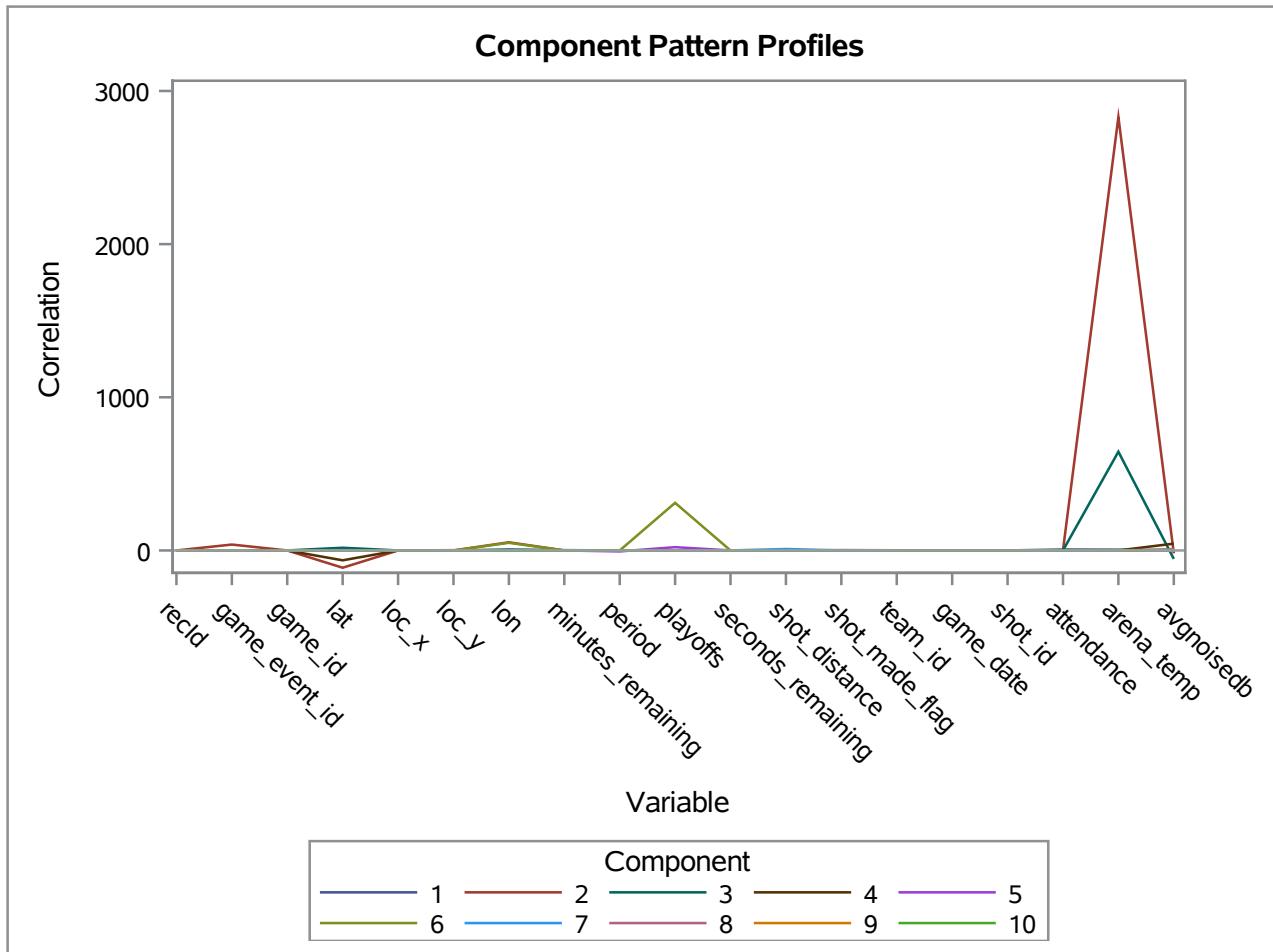
		Eigenvectors									
		Prin10	Prin11	Prin12	Prin13	Prin14	Prin15	Prin16	Prin17	Prin18	Prin19
<b>recid</b>	recid	0.005982	0.00000	0.000001	0.00000	0.00000	0.000014	0.000011	-0.000050	-0.000432	0.707061
<b>game_event_id</b>	game_event_id	0.005687	0.00000	-0.00000	0.00000	0.00000	0.000140	0.000068	0.000067	-0.007841	0.004644
<b>game_id</b>	game_id	-0.000000	0.00000	-0.00000	0.00000	0.00000	-0.000000	0.000000	-0.000000	0.000000	0.000000
<b>lat</b>	lat	-0.000003	0.00000	-0.00000	1.00000	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000
<b>loc_x</b>	loc_x	0.000098	0.00000	-0.00000	-0.00000	-0.00100	0.000251	-0.000125	-0.000017	0.000011	0.000050
<b>loc_y</b>	loc_y	0.002917	0.00000	0.00001	0.00100	-0.00000	0.000248	-0.000269	-0.000258	0.000015	-0.000255
<b>lon</b>	lon	0.000000	0.00000	-0.00000	0.00000	1.00000	0.000000	0.000000	0.000000	0.000000	0.000000
<b>minutes_remaining</b>	minutes_remaining	0.996901	0.00000	-0.00008	0.00000	-0.00000	0.001646	0.006385	-0.001670	-0.077259	-0.008477
<b>period</b>	period	0.077293	0.00000	-0.00001	-0.00000	0.00000	0.000128	0.000499	-0.000121	0.996979	0.000000
<b>playoffs</b>	playoffs	0.000079	0.00000	1.00000	0.00000	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000
<b>seconds_remaining</b>	seconds_remaining	-0.003407	-0.00000	-0.00002	-0.00000	0.00000	0.000071	0.000078	-0.000543	-0.001392	0.000051
<b>shot_distance</b>	shot_distance	-0.006575	-0.00000	0.00002	0.00000	0.00000	-0.001071	0.005095	0.012297	-0.000671	0.004638
<b>shot_made_flag</b>	shot_made_flag	0.001754	0.00000	-0.00000	0.00000	-0.00000	0.000016	-0.000052	0.999923	0.000000	0.000000
<b>team_id</b>	team_id	-0.000000	1.00000	0.00000	0.00000	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000
<b>game_date</b>	game_date	0.000011	0.00000	-0.00009	0.00000	-0.00000	-0.000021	0.000022	-0.000004	0.000021	-0.000018
<b>shot_id</b>	shot_id	-0.005978	-0.00000	0.00001	-0.00000	-0.00000	-0.000012	-0.000031	0.000051	0.000438	-0.707071
<b>attendance</b>	attendance	0.000038	0.00000	-0.00000	0.00000	-0.00000	-0.001084	-0.000152	-0.000042	0.000000	0.000013
<b>arena_temp</b>	arena_temp	-0.006370	-0.00000	0.00000	0.00000	-0.00000	-0.000005	0.999966	0.000000	0.000000	0.000000
<b>avgnoisedb</b>	avgnoisedb	-0.001659	-0.00000	0.00000	-0.00000	0.00000	0.999997	0.000000	0.000000	0.000000	0.000000

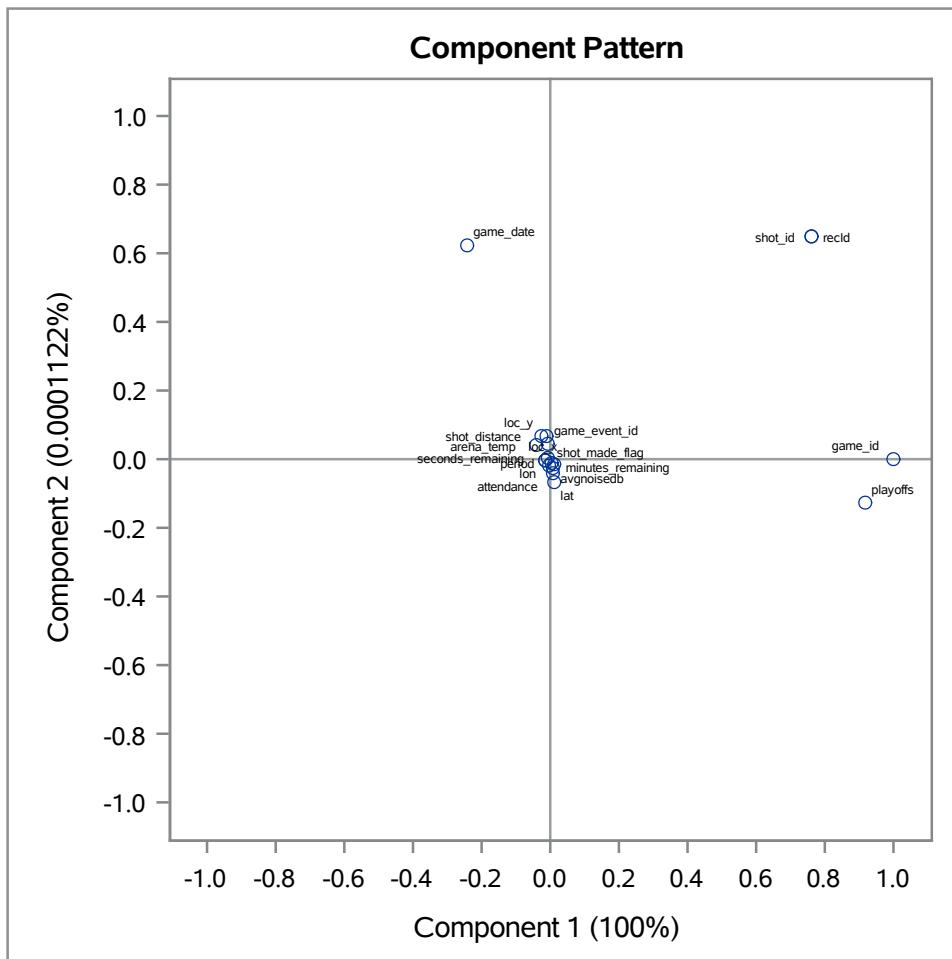
**The PRINCOMP Procedure**

## The PRINCOMP Procedure

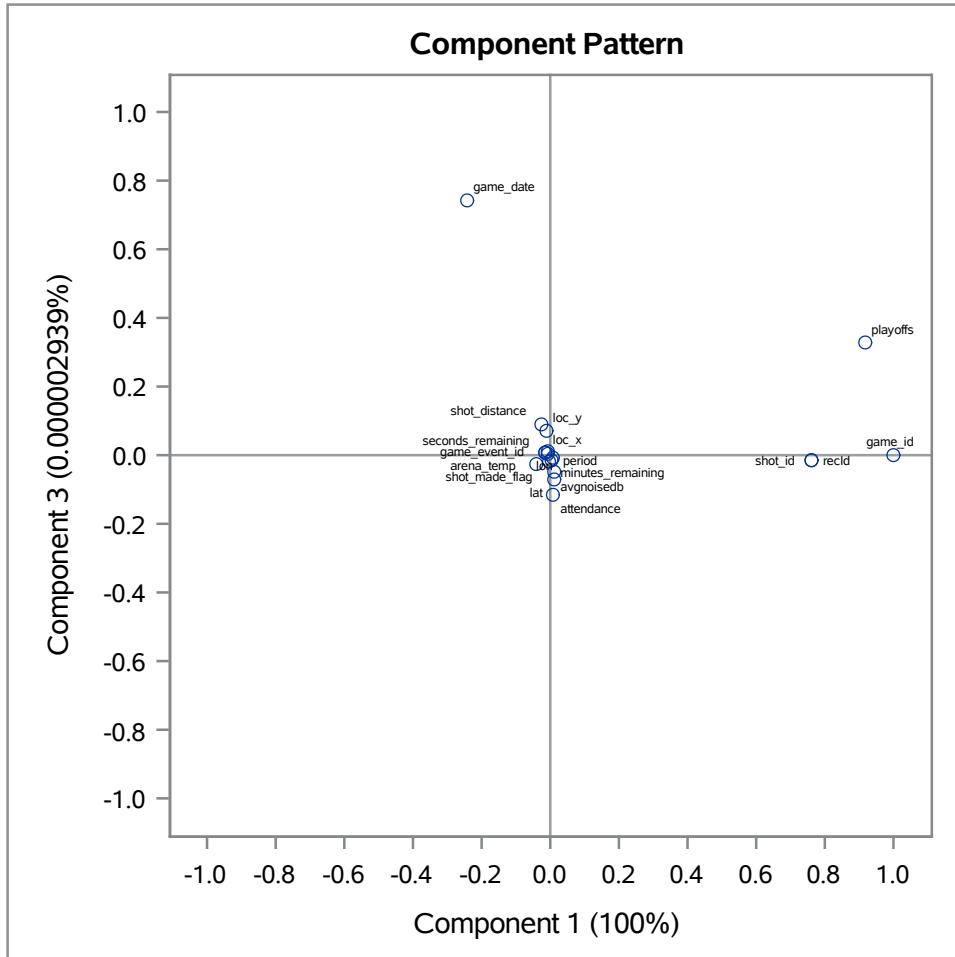


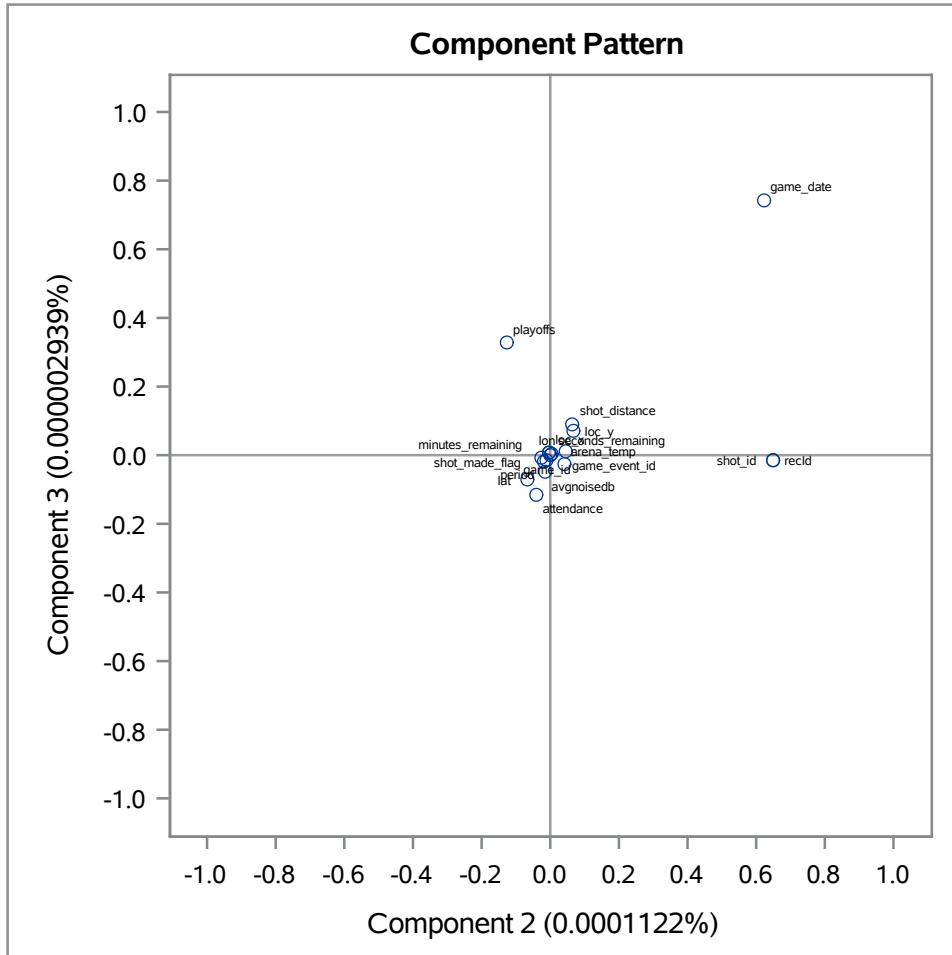
## The PRINCOMP Procedure

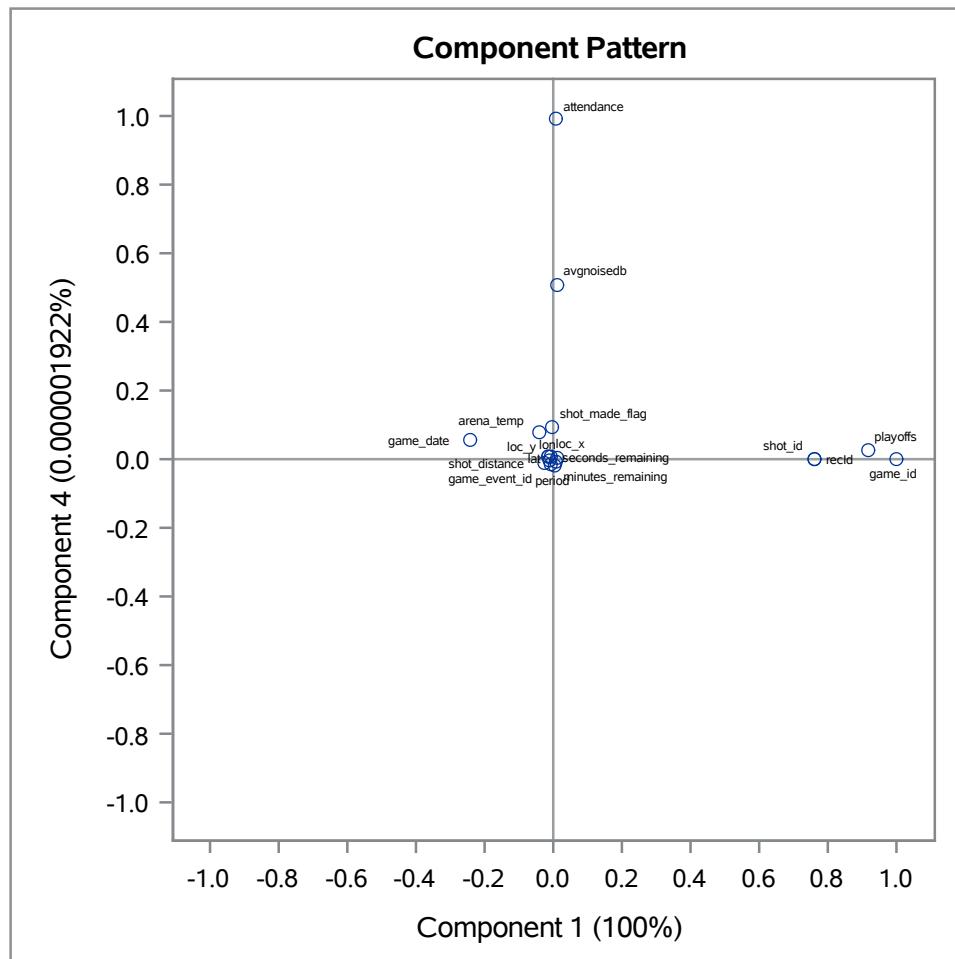


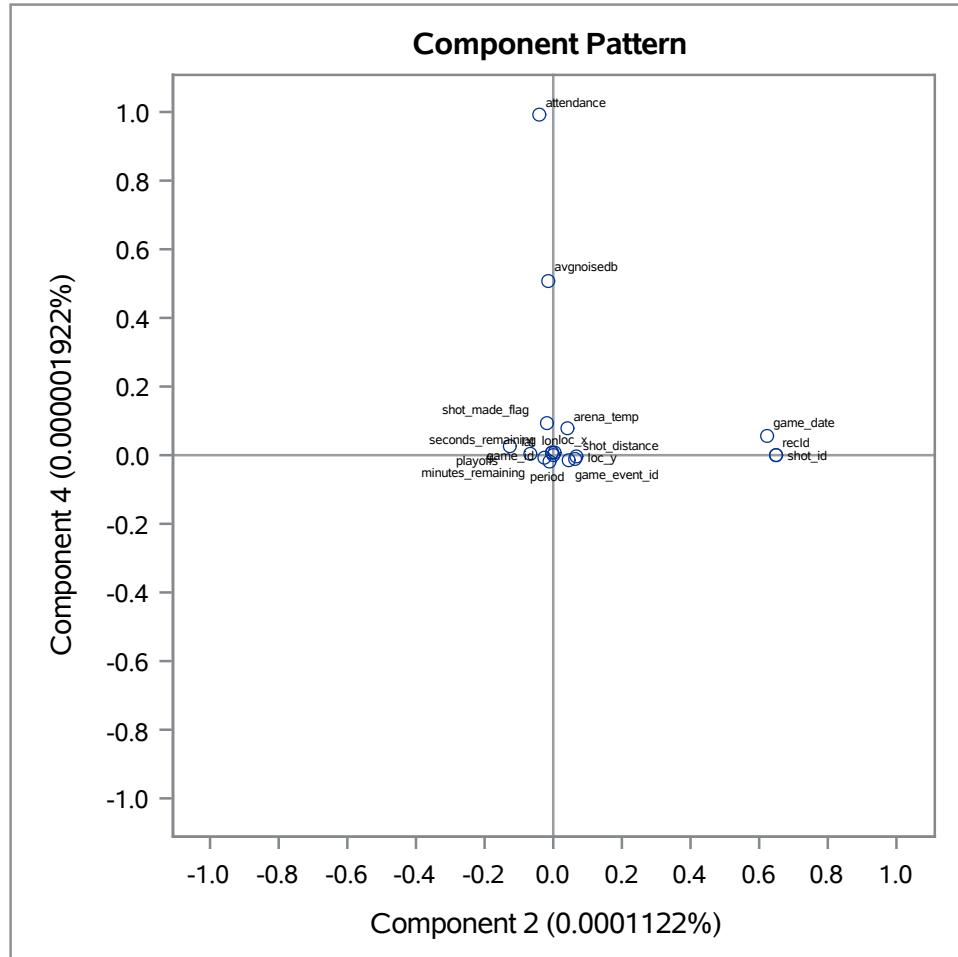
**The PRINCOMP Procedure**

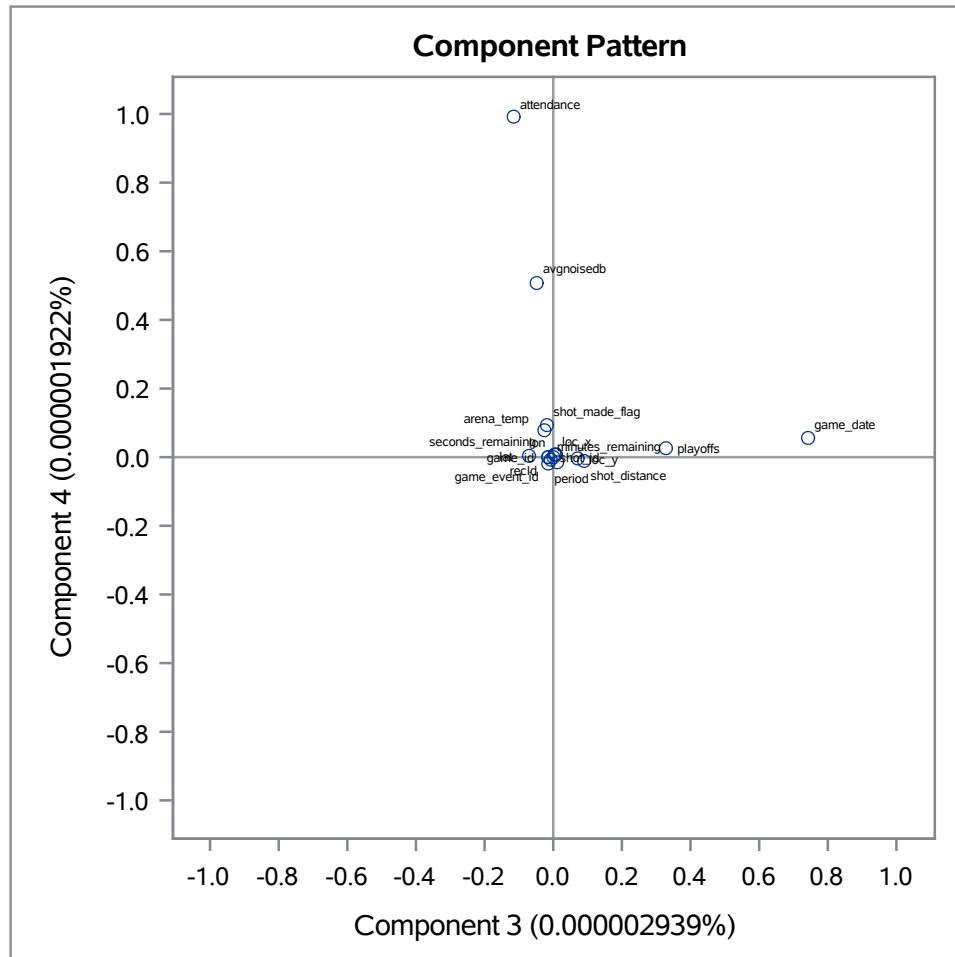
## The PRINCOMP Procedure

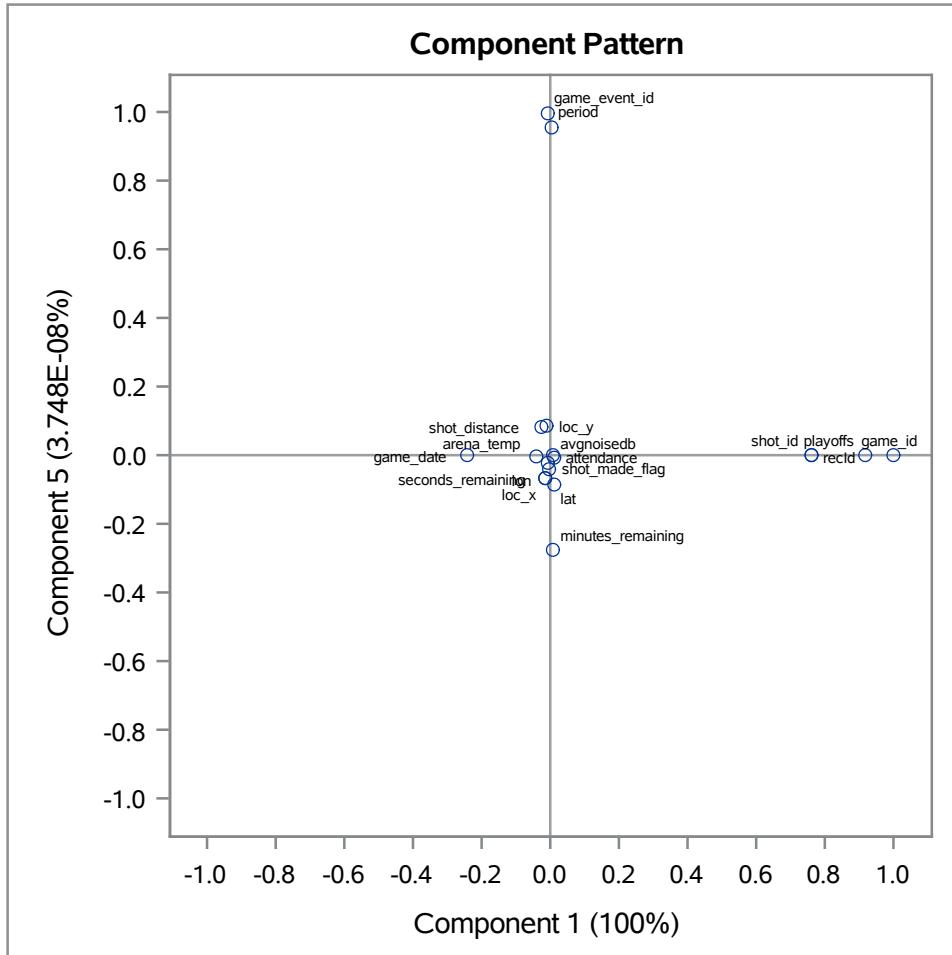


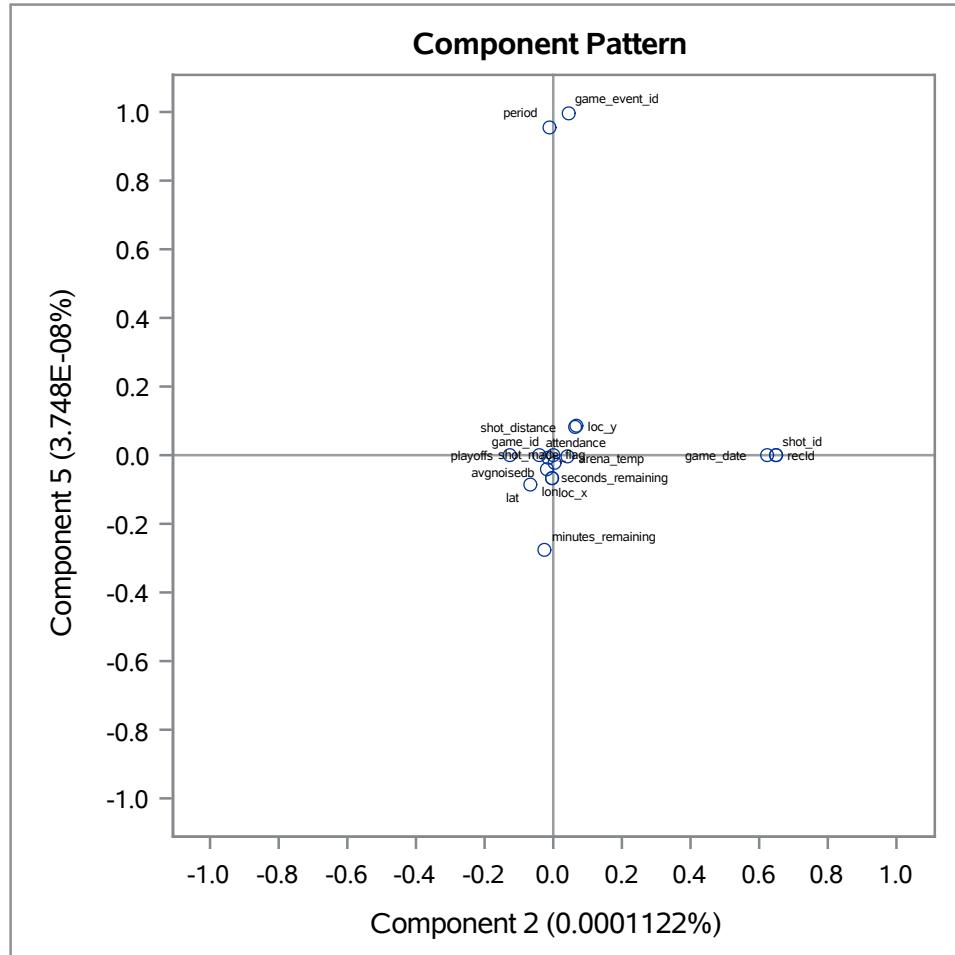
**The PRINCOMP Procedure**

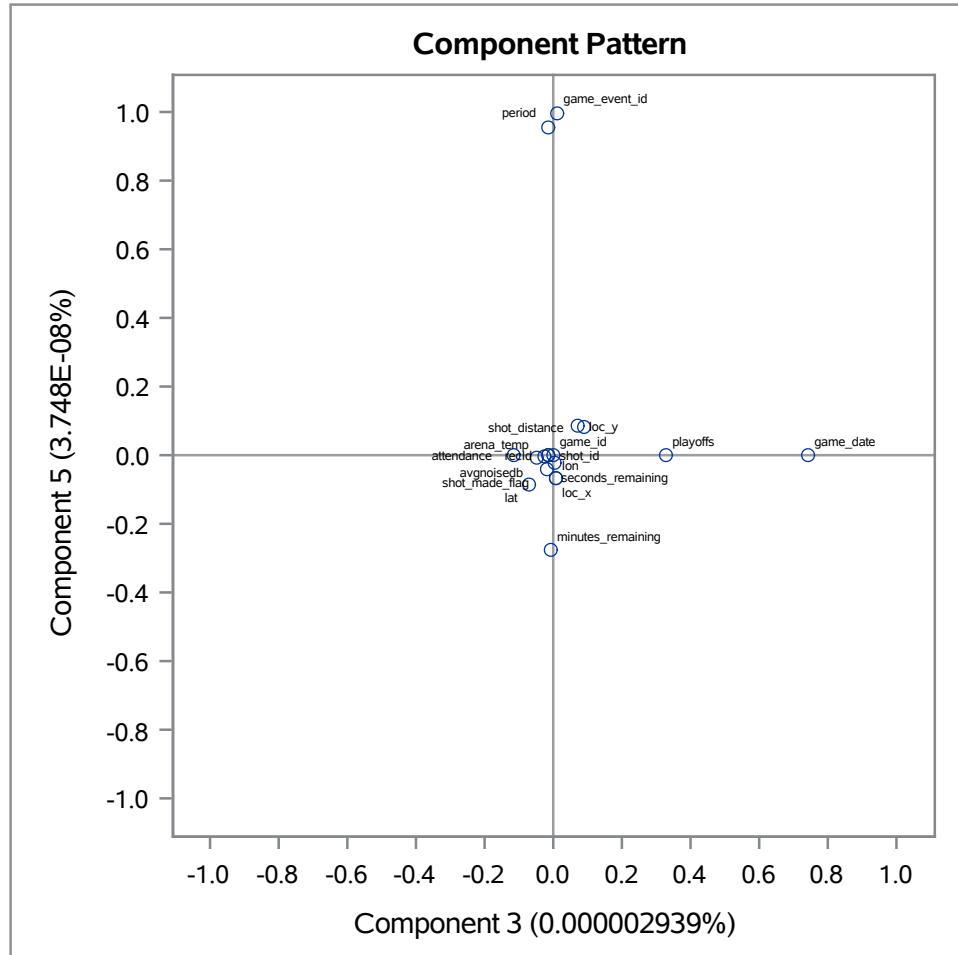
**The PRINCOMP Procedure**

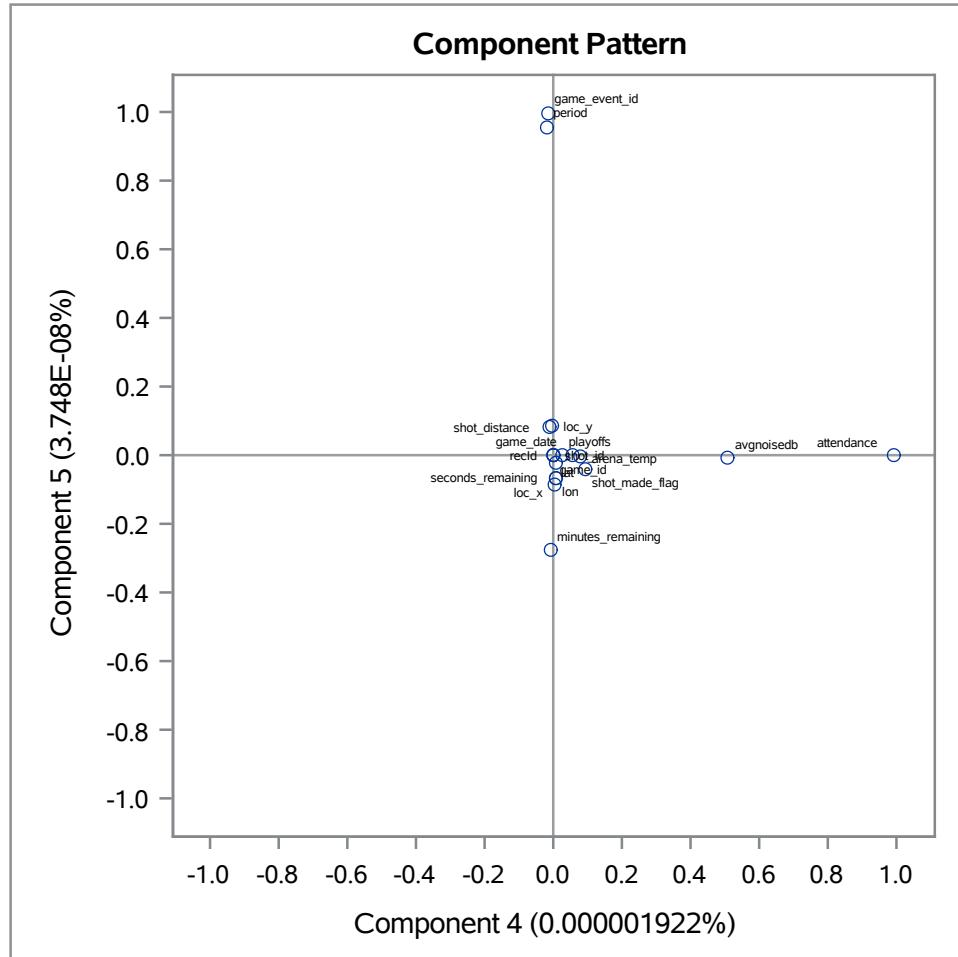
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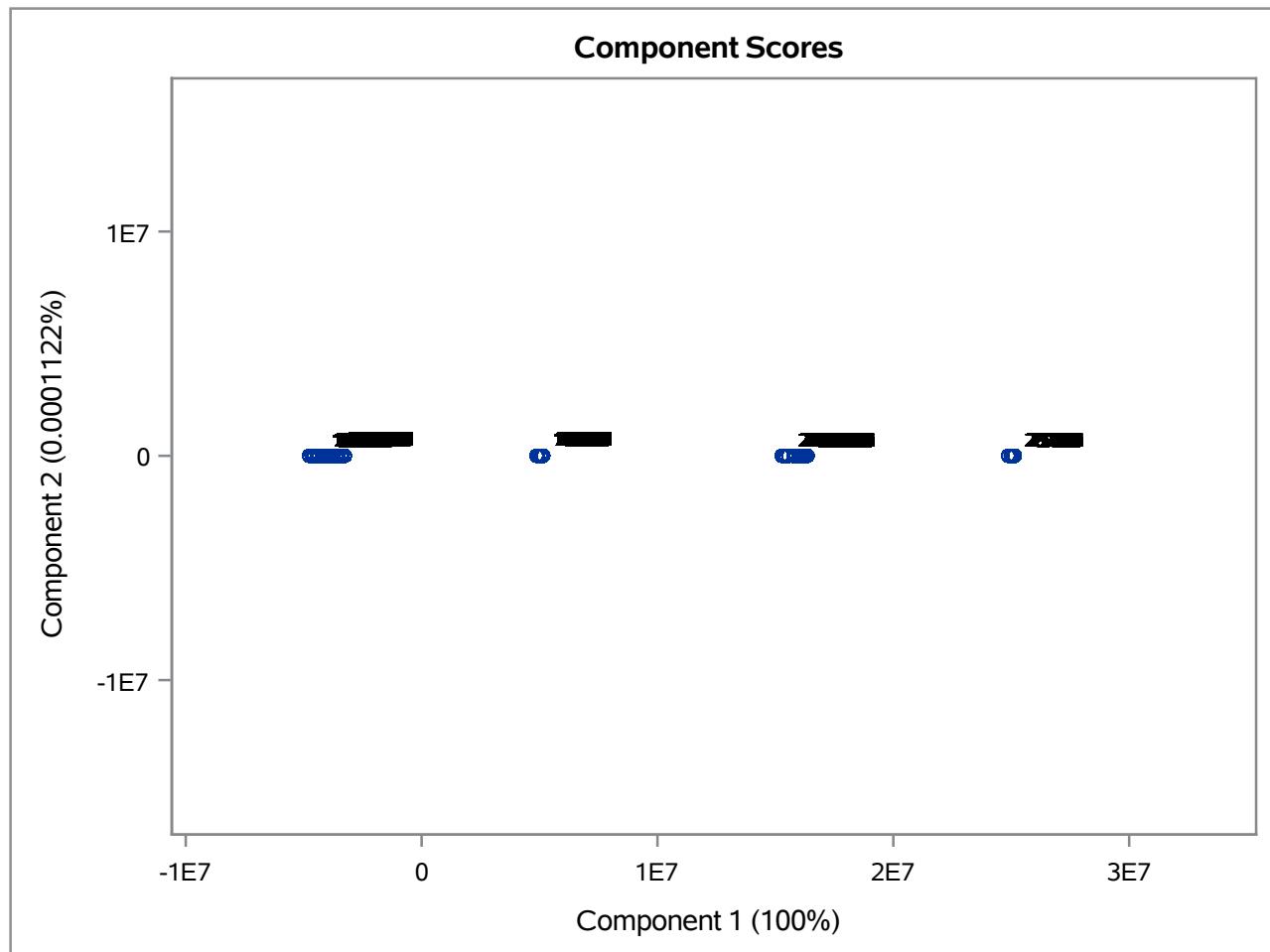
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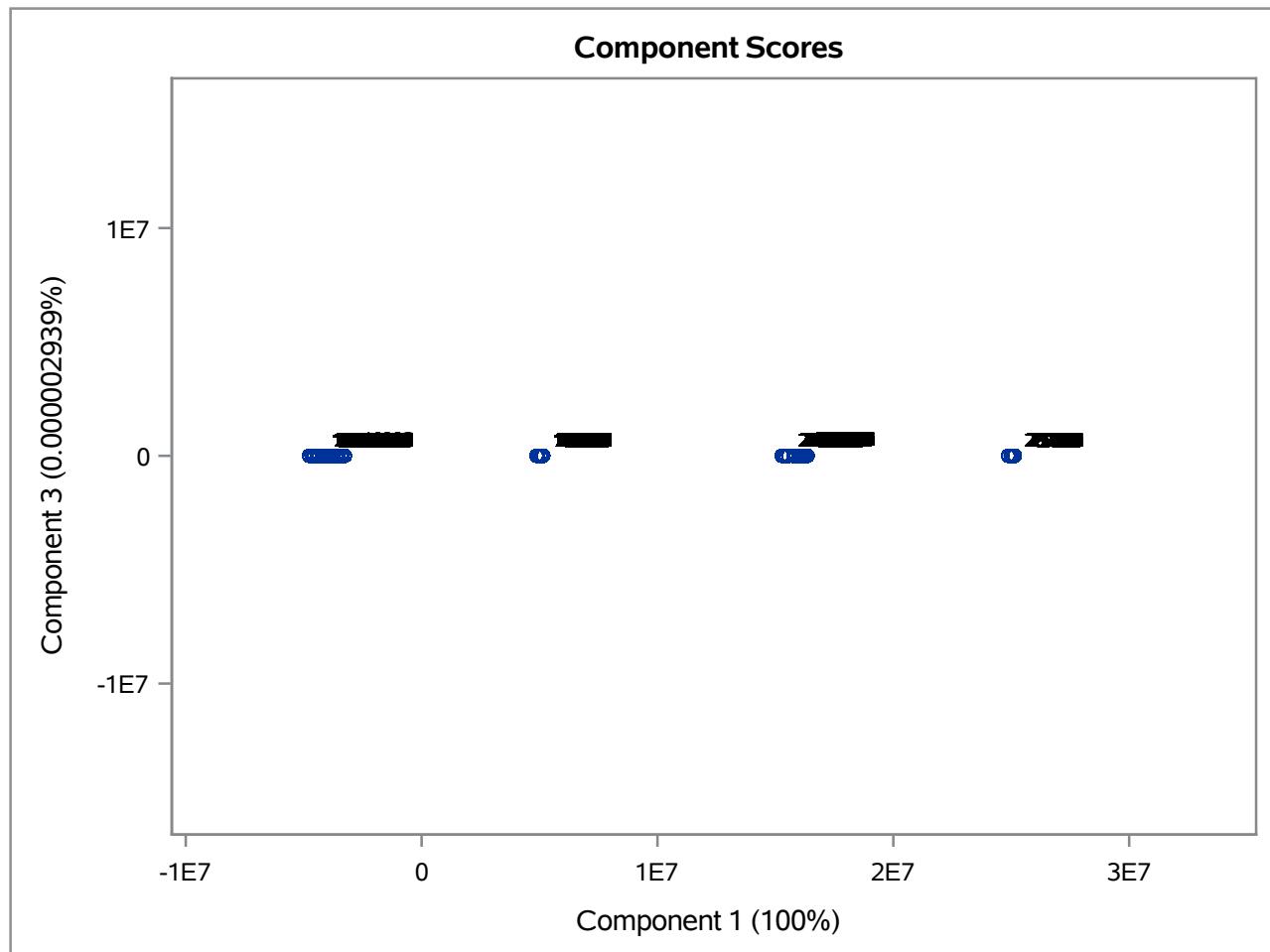
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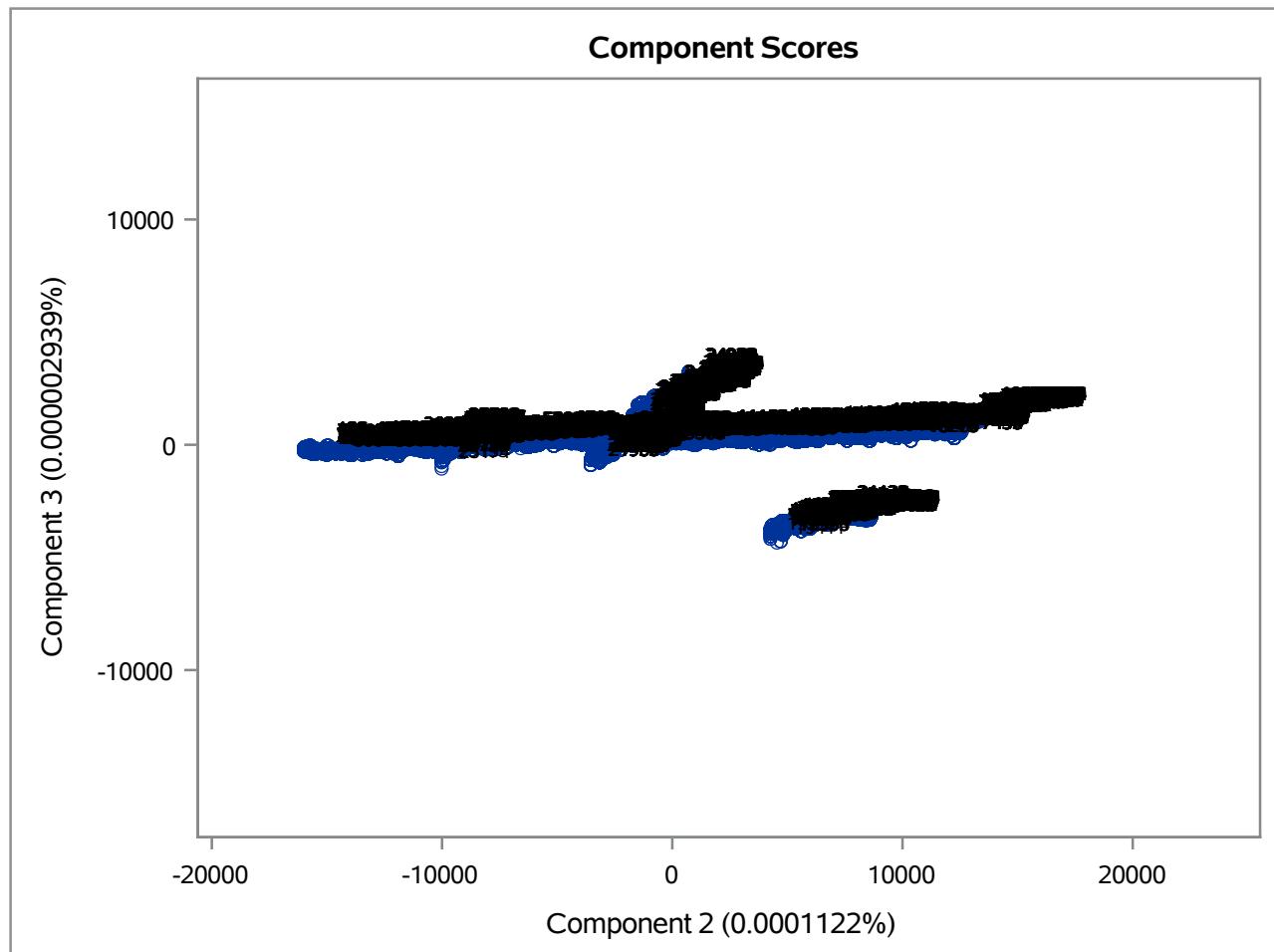
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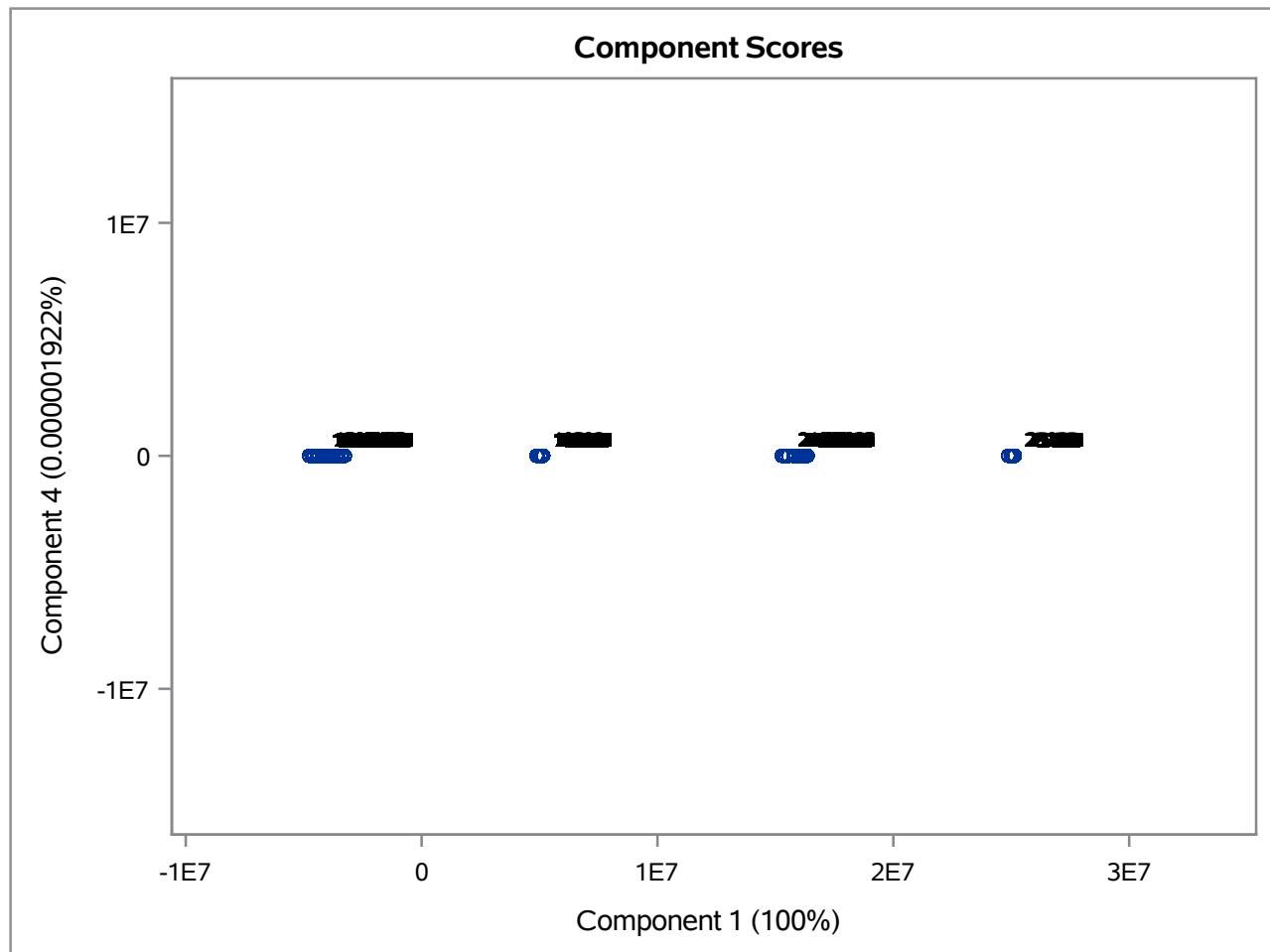
**The PRINCOMP Procedure**

**The PRINCOMP Procedure**

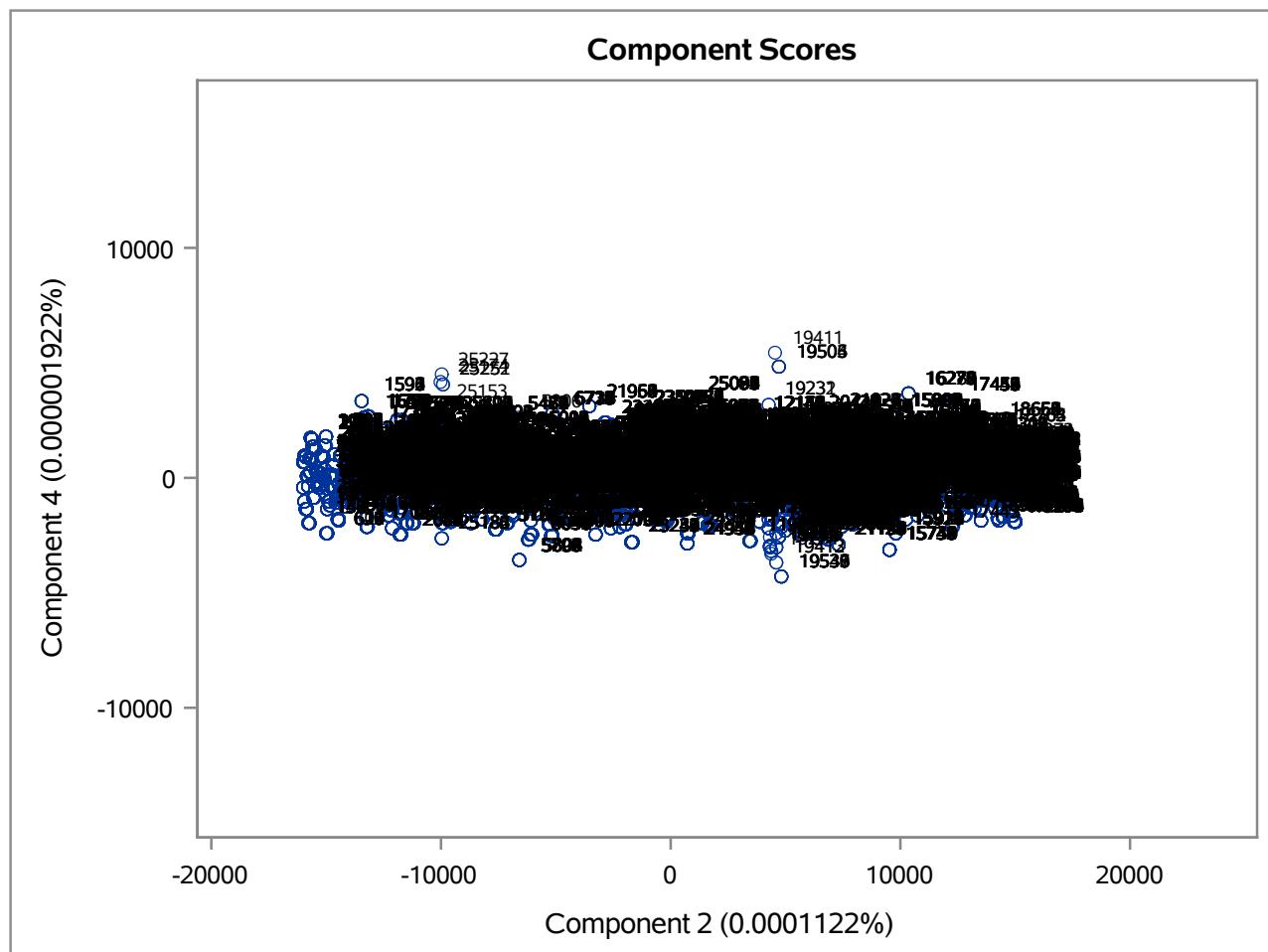
**The PRINCOMP Procedure**

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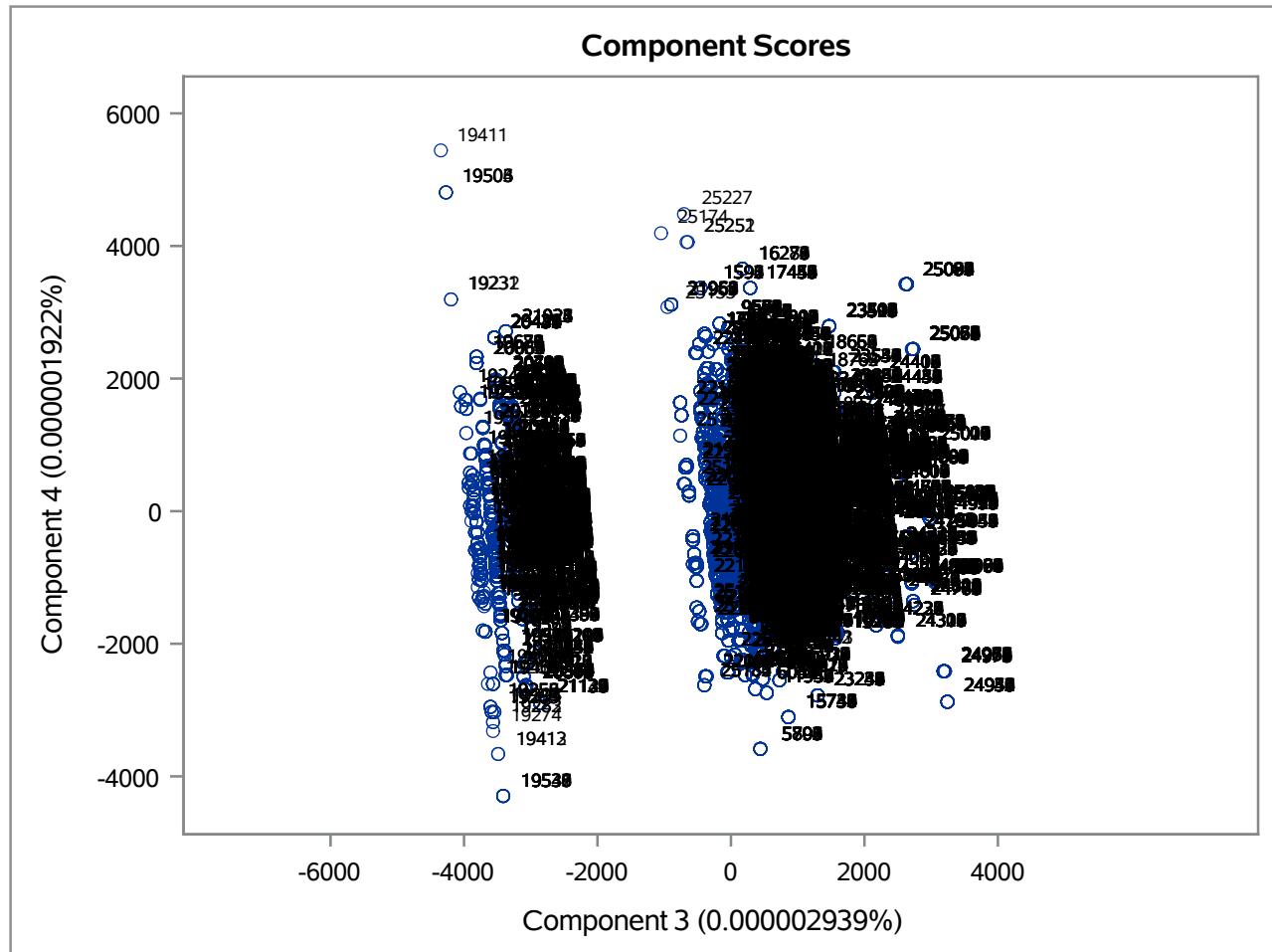
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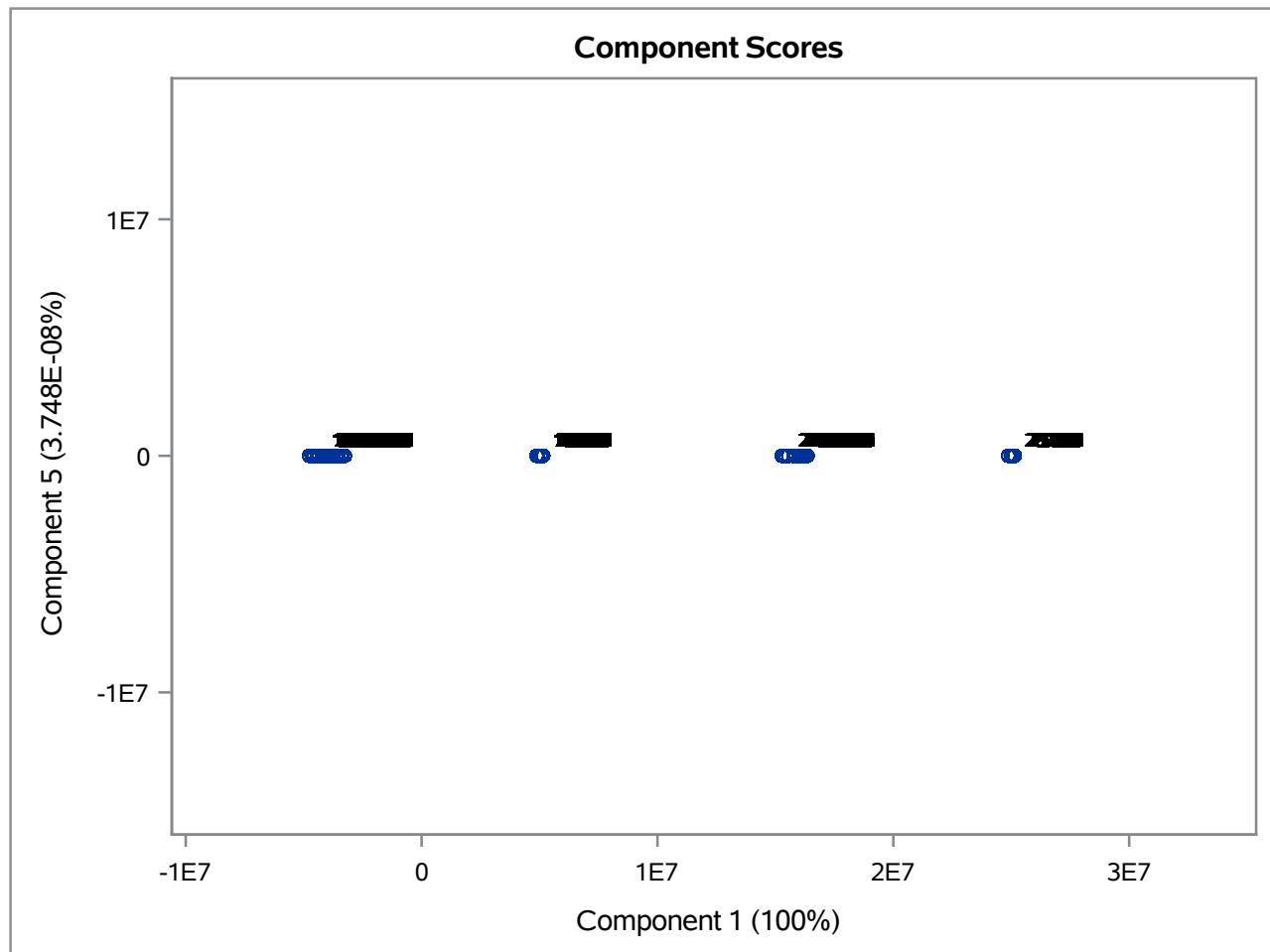
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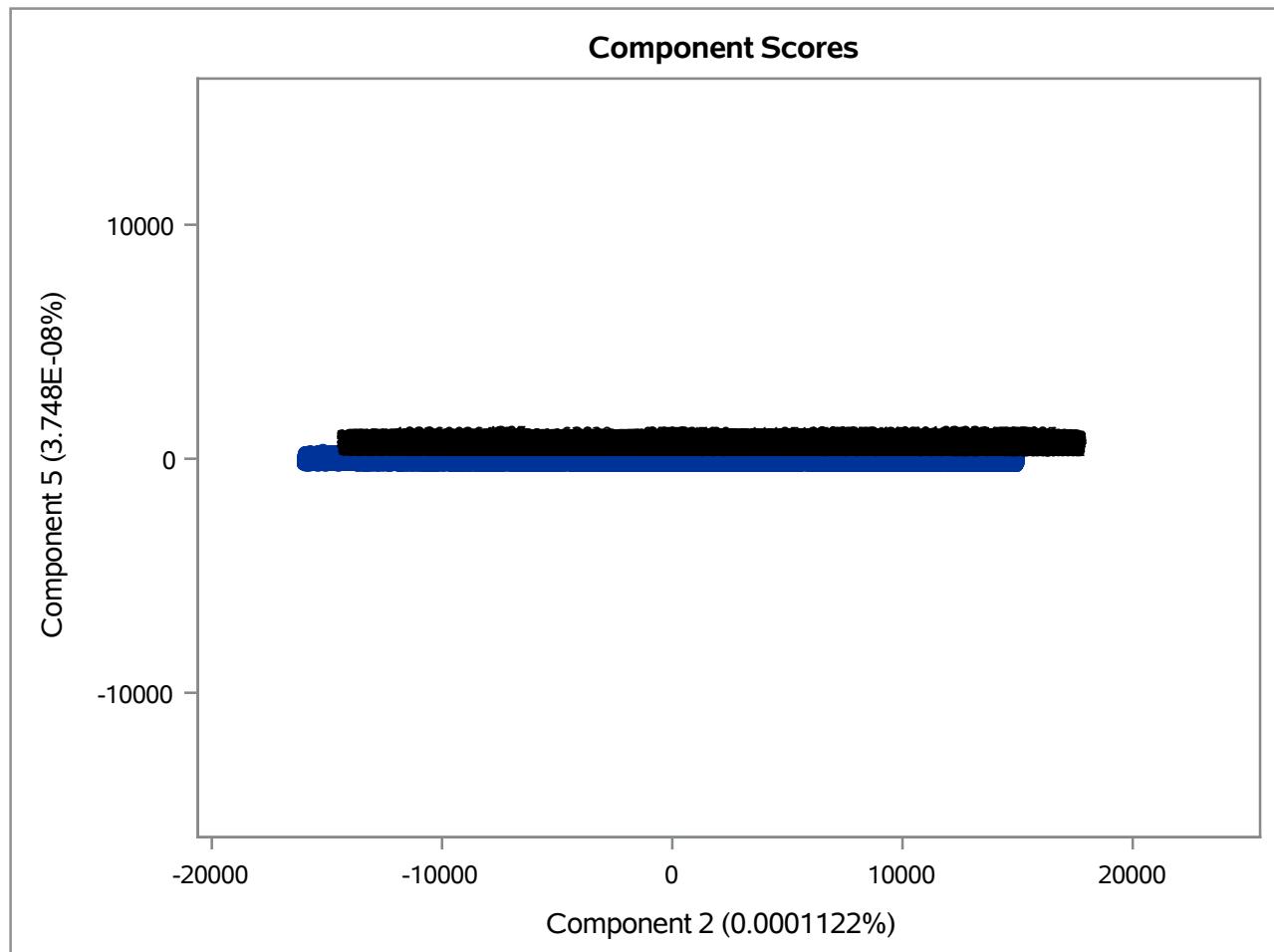
## The PRINCOMP Procedure

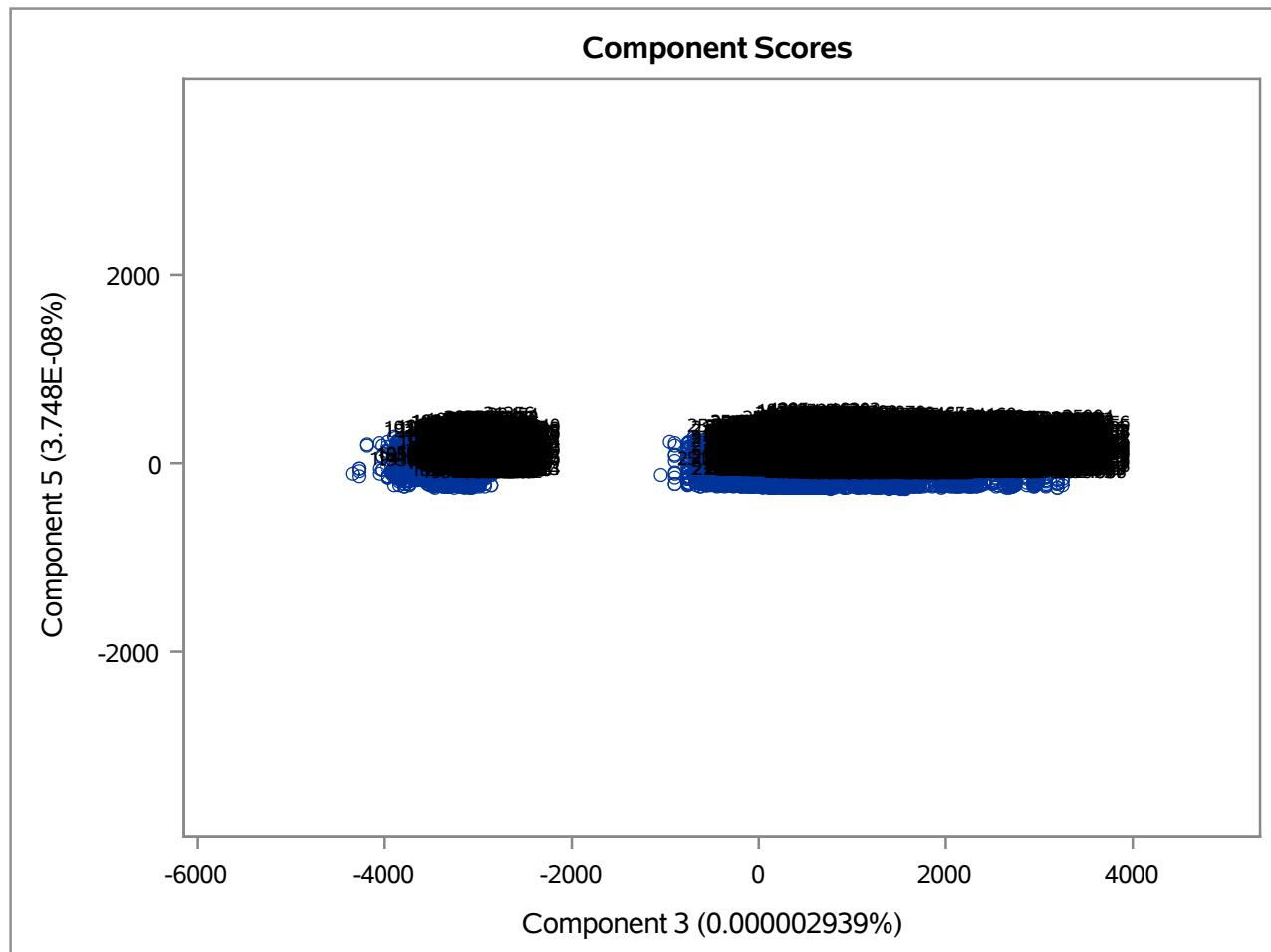


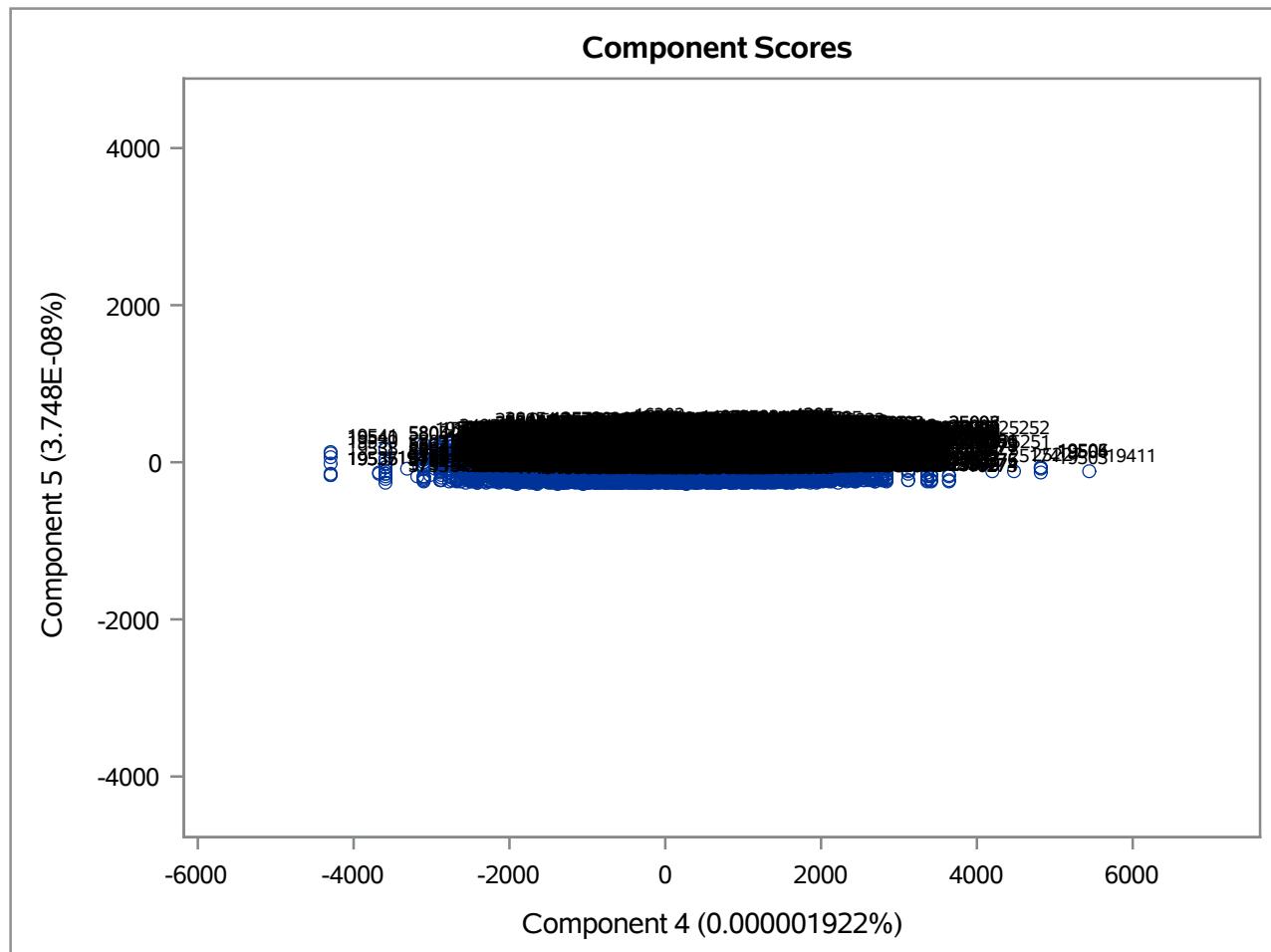
### The PRINCOMP Procedure



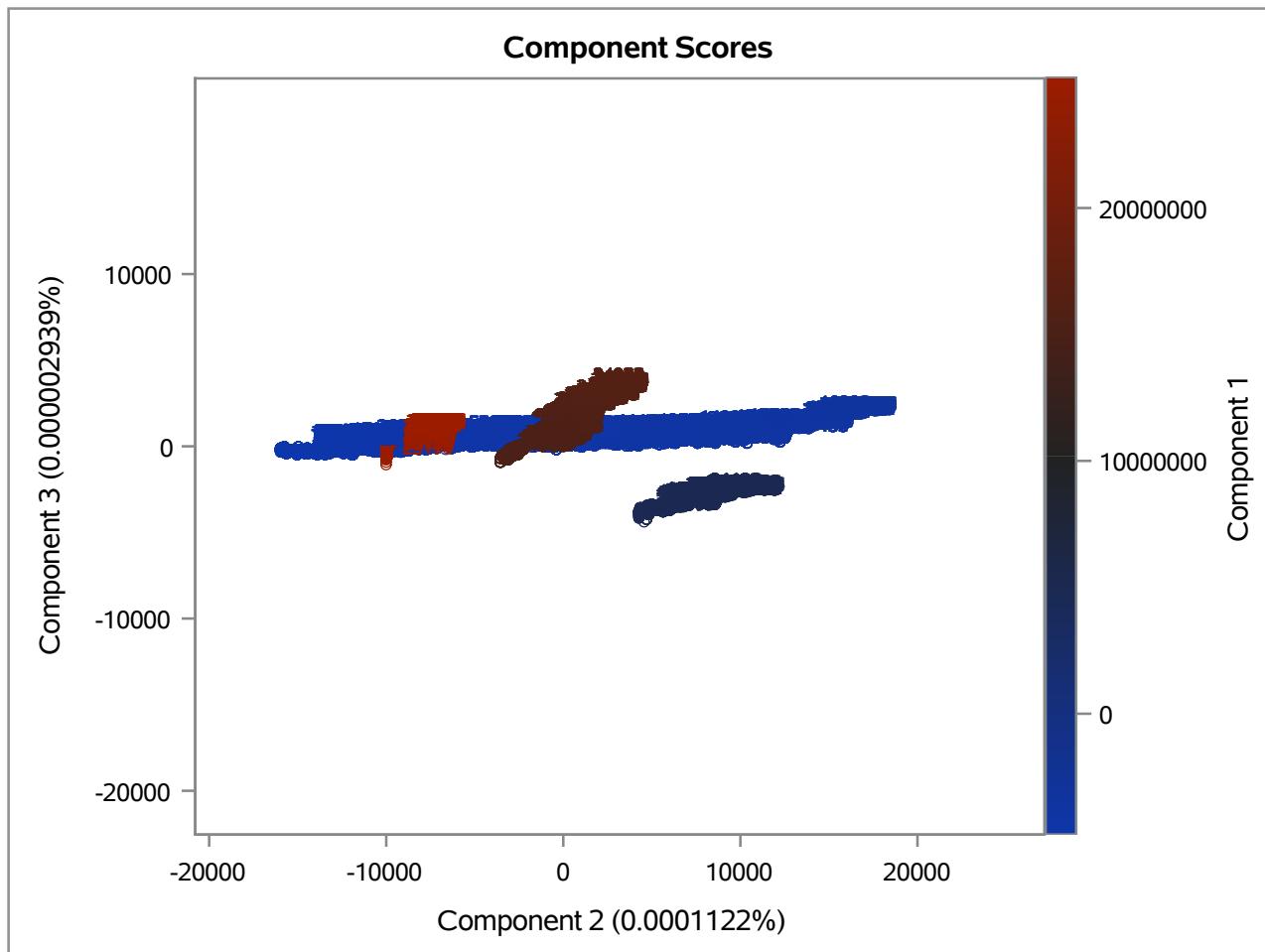
**The PRINCOMP Procedure**

**The PRINCOMP Procedure**

**The PRINCOMP Procedure**

**The PRINCOMP Procedure**

## The PRINCOMP Procedure



## The CORR Procedure

**11 Variables:** shot\_made\_flag Prin1 Prin2 Prin3 Prin4 Prin5 Prin6 Prin7 Prin8 Prin9 Prin10

Simple Statistics								
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label	
shot_made_flag	25697	0.44616	0.49710	11465	0	1.00000	shot_made_flag	
Prin1	25697	0	7738114	0	-4741102	25159005		
Prin2	25697	0	8198	0	-16000	15031		
Prin3	25697	0	1327	0	-4352	3243		
Prin4	25697	0	1073	0	-4299	5435		
Prin5	25697	0	149.80525	0	-271.96111	397.63680		
Prin6	25697	0	109.97114	0	-257.29889	252.75155		
Prin7	25697	0	87.82006	0	-154.15642	700.81805		
Prin8	25697	0	17.48866	0	-30.61771	33.19174		
Prin9	25697	0	5.35468	0	-6.95036	21.17717		
Prin10	25697	0	3.32233	0	-6.36799	7.69427		

### The GLMSELECT Procedure

<b>Data Set</b>	WORK.PCA
<b>Dependent Variable</b>	shot_made_flag
<b>Selection Method</b>	Stepwise
<b>Select Criterion</b>	Cross Validation
<b>Stop Criterion</b>	Cross Validation
<b>Choose Criterion</b>	Cross Validation
<b>Cross Validation Method</b>	Random
<b>Cross Validation Fold</b>	5
<b>Effect Hierarchy Enforced</b>	None
<b>Random Number Seed</b>	3

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**Number of Observations Read** 25697

**Number of Observations Used** 25697

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#### Dimensions

<b>Number of Effects</b>	11
<b>Number of Parameters</b>	11

## The GLMSELECT Procedure

Stepwise Selection Summary				
Step	Effect Entered	Effect Removed	Number Effects In	CV PRESS
<b>0</b>	<b>Intercept</b>		1	6350.5673
<b>1</b>	<b>Prin7</b>		2	6219.8521
<b>2</b>	<b>Prin9</b>		3	6109.5981
<b>3</b>	<b>Prin4</b>		4	6053.0613
<b>4</b>	<b>Prin5</b>		5	6043.9362
<b>5</b>	<b>Prin8</b>		6	6041.4372
<b>6</b>	<b>Prin3</b>		7	6039.6374
<b>7</b>	<b>Prin2</b>		8	6037.9647
<b>8</b>	<b>Prin10</b>		9	6037.1876*

\* Optimal Value of Criterion

Selection stopped at a local minimum of the cross validation PRESS.

Stop Details			
Candidate For	Effect	Candidate CV PRESS	Compare CV PRESS
<b>Entry</b>	Prin6	6037.7771	> 6037.1876
<b>Removal</b>	Prin10	6037.9647	> 6037.1876

## The GLMSELECT Procedure Selected Model

The selected model, based on Cross Validation, is the model at Step 8.

**Effects:** Intercept Prin2 Prin3 Prin4 Prin5 Prin7 Prin8 Prin9 Prin10

<b>Analysis of Variance</b>				
Source	DF	Sum of Squares	Mean Square	F Value
<b>Model</b>	8	316.90987	39.61373	168.68
<b>Error</b>	25688	6032.85392	0.23485	
<b>Corrected Total</b>	25696	6349.76379		

<b>Root MSE</b>	0.48461
<b>Dependent Mean</b>	0.44616
<b>R-Square</b>	0.0499
<b>Adj R-Sq</b>	0.0496
<b>AIC</b>	-11522
<b>AICC</b>	-11522
<b>SBC</b>	-37148
<b>CV PRESS</b>	6037.18757

<b>Parameter Estimates</b>					
Parameter	DF	Estimate	Standard		
			Error	t Value	
<b>Intercept</b>	1	0.446161	0.003023	147.58	
<b>Prin2</b>	1	-0.000001120	0.000000369	-3.04	
<b>Prin3</b>	1	-0.000006702	0.000002279	-2.94	
<b>Prin4</b>	1	0.000043818	0.000002818	15.55	
<b>Prin5</b>	1	-0.000130	0.000020181	-6.42	
<b>Prin7</b>	1	-0.000816	0.000034425	-23.69	
<b>Prin8</b>	1	0.000602	0.000173	3.48	
<b>Prin9</b>	1	-0.012258	0.000565	-21.71	
<b>Prin10</b>	1	0.001754	0.000910	1.93	

## The LOGISTIC Procedure

Model Information		
Data Set	WORK.PCA	Principal Component Scores
Response Variable	shot_made_flag	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 0		14232
2 1		11465

Probability modeled is shot\_made\_flag='1'.

### Model Convergence Status

Convergence criterion (GCONV=1E-8) satisfied.

### Model Fit Statistics

Criterion	Intercept	
	Intercept Only	and Covariates
AIC	35327.083	34032.967
SC	35335.237	34122.663
-2 Log L	35325.083	34010.967

R-Square 0.0499 Max-rescaled R-Square 0.0667

### Testing Global Null Hypothesis: BETA=0

Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	1314.1155	10	<.0001
Score	1282.5783	10	<.0001
Wald	1231.8483	10	<.0001

### Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-0.2278	0.0129	312.2349	<.0001
Prin1	1	-555E-12	1.665E-9	0.1110	0.7390
Prin2	1	-4.66E-6	1.57E-6	8.8166	0.0030
Prin3	1	-0.00003	9.72E-6	8.2761	0.0040
Prin4	1	0.000187	0.000012	237.5392	<.0001
Prin5	1	-0.00056	0.000086	41.5656	<.0001
Prin6	1	7.658E-6	0.000119	0.0041	0.9488
Prin7	1	-0.00350	0.000153	525.1436	<.0001
Prin8	1	0.00270	0.000737	13.3800	0.0003
Prin9	1	-0.0511	0.00243	442.7782	<.0001
Prin10	1	0.00825	0.00388	4.5353	0.0332

## The LOGISTIC Procedure

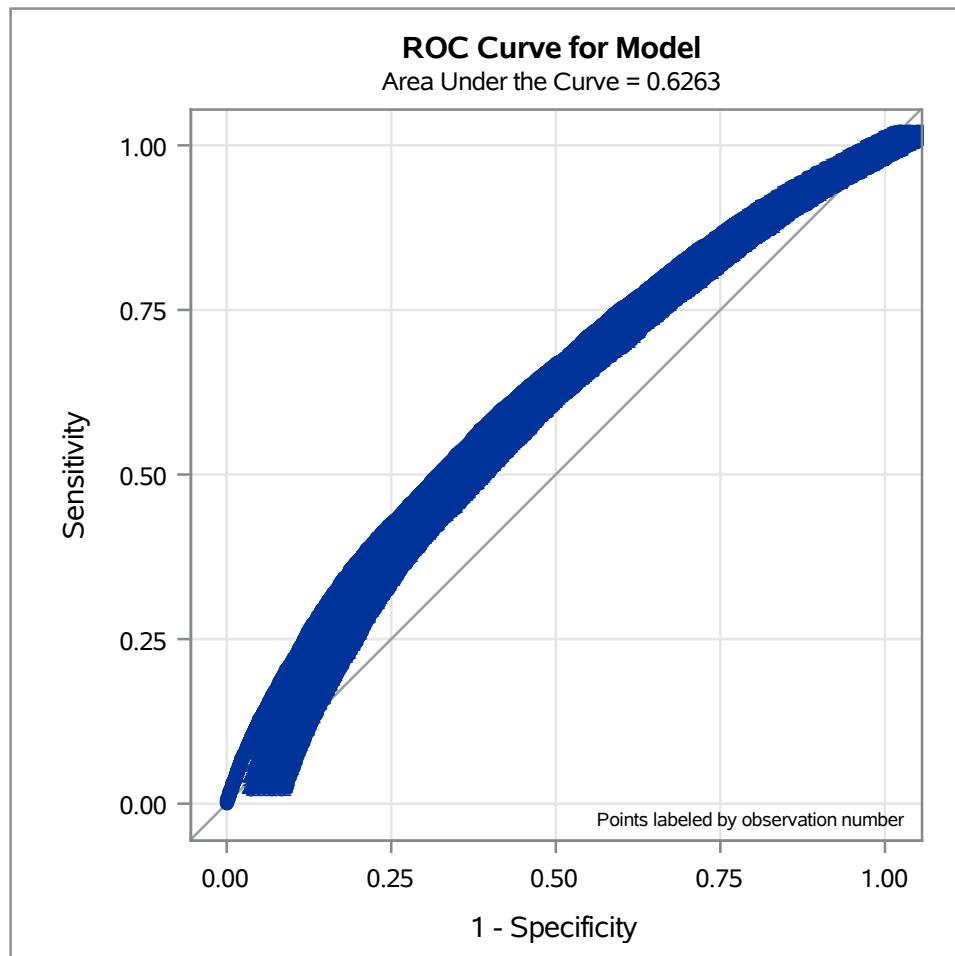
Association of Predicted Probabilities and Observed Responses			
Percent Concordant	62.6	Somers' D	0.253
Percent Discordant	37.4	Gamma	0.253
Percent Tied	0.0	Tau-a	0.125
Pairs	163169880	c	0.626

### Parameter Estimates and Wald Confidence Intervals

Parameter	Estimate	95% Confidence Limits	
Intercept	-0.2278	-0.2531	-0.2025
Prin1	-555E-12	-3.82E-9	2.709E-9
Prin2	-4.66E-6	-7.74E-6	-1.58E-6
Prin3	-0.00003	-0.00005	-8.91E-6
Prin4	0.000187	0.000163	0.000210
Prin5	-0.00056	-0.00072	-0.00039
Prin6	7.658E-6	-0.00023	0.000241
Prin7	-0.00350	-0.00380	-0.00320
Prin8	0.00270	0.00125	0.00414
Prin9	-0.0511	-0.0559	-0.0464
Prin10	0.00825	0.000658	0.0158

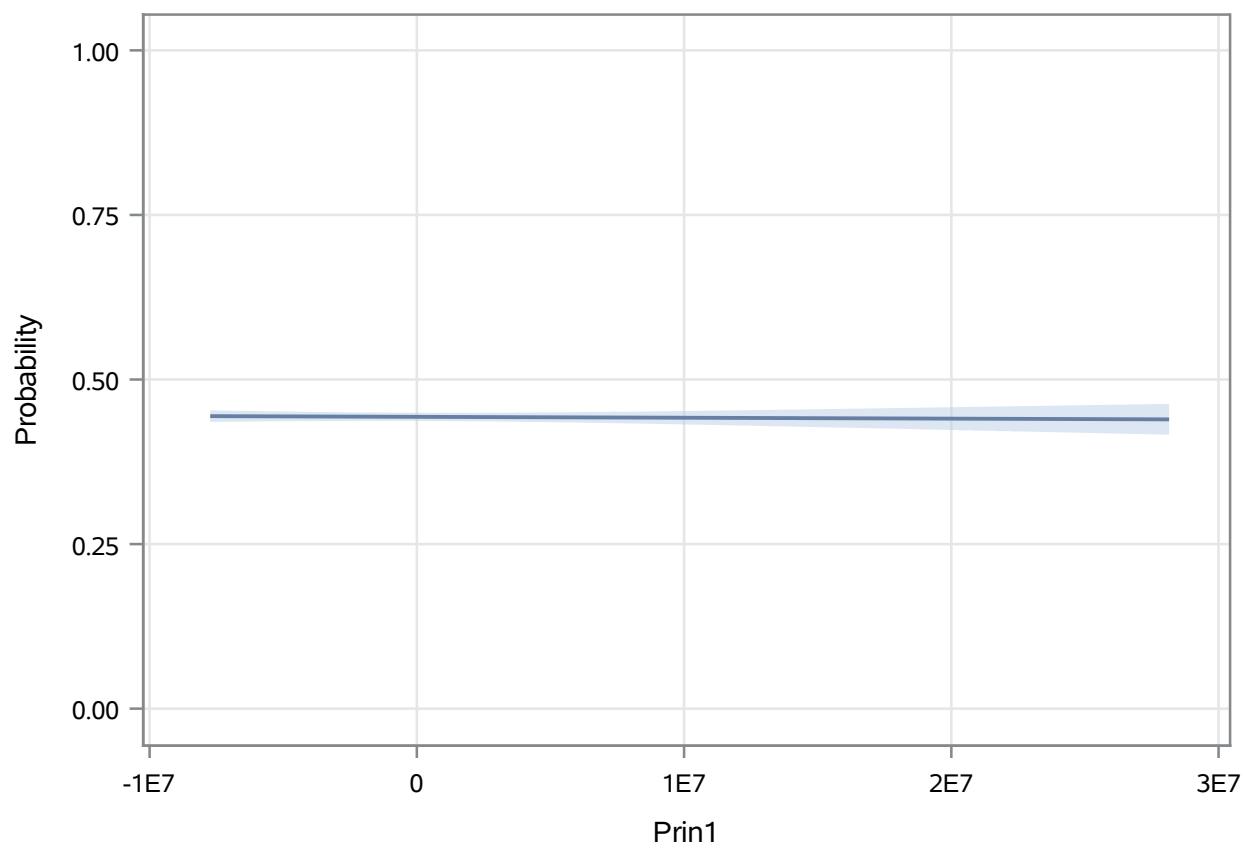
### Odds Ratio Estimates and Profile-Likelihood Confidence Intervals

Effect	Unit	Estimate	95% Confidence Limits	
Prin1	1.0000	1.000	1.000	1.000
Prin2	1.0000	1.000	1.000	1.000
Prin3	1.0000	1.000	1.000	1.000
Prin4	1.0000	1.000	1.000	1.000
Prin5	1.0000	0.999	0.999	1.000
Prin6	1.0000	1.000	1.000	1.000
Prin7	1.0000	0.997	0.996	0.997
Prin8	1.0000	1.003	1.001	1.004
Prin9	1.0000	0.950	0.946	0.955
Prin10	1.0000	1.008	1.001	1.016

**The LOGISTIC Procedure**

**The LOGISTIC Procedure**

**Predicted Probabilities for shot\_made\_flag=1 with 95% Confidence Limits**  
At Prin2=8E-13 Prin3=3E-13 Prin4=-0 Prin5=-0 Prin6=1E-15 Prin7=-0 Prin8=-0 Prin9=-0 Prin10=-0



## The LOGISTIC Procedure

Model Information	
Data Set	WORK.TRAIN2
Response Variable	shot_made_flag 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 0		14232
2 1		11465

Probability modeled is shot\_made\_flag='1'.

### Model Convergence Status

Convergence criterion (GCONV=1E-8) satisfied.

### Model Fit Statistics

Criterion	Intercept		Intercept and Covariates
	Only	Covariates	
AIC	35327.083	34298.864	
SC	35335.237	34315.172	
-2 Log L	35325.083	34294.864	

R-Square 0.0393 Max-rescaled R-Square 0.0526

### Testing Global Null Hypothesis: BETA=0

Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	1030.2191	1	<.0001
Score	1009.8871	1	<.0001
Wald	983.2257	1	<.0001

### Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	0.3680	0.0224	270.2588	<.0001
shot_distance	1	-0.0441	0.00141	983.2257	<.0001

### Association of Predicted Probabilities and Observed Responses

Percent Concordant	58.2	Somers' D	0.221
Percent Discordant	36.0	Gamma	0.235
Percent Tied	5.8	Tau-a	0.109
Pairs	163169880	c	0.611

## The LOGISTIC Procedure

### Parameter Estimates and Wald Confidence Intervals

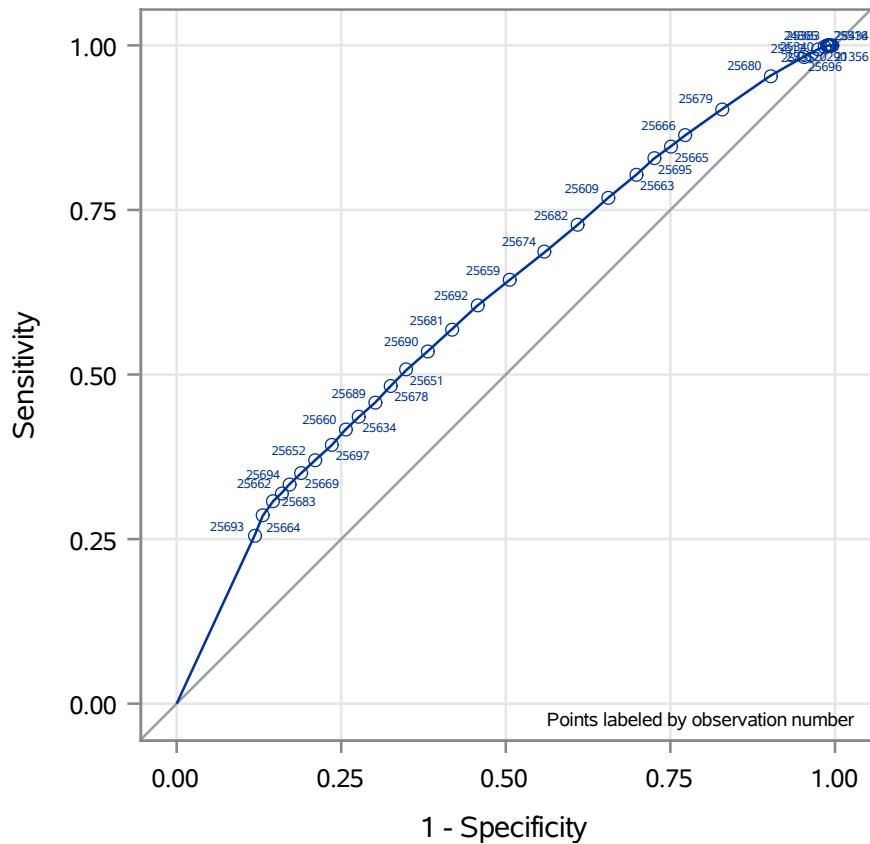
Parameter	Estimate	95% Confidence Limits
Intercept	0.3680	0.3241 0.4119
shot_distance	-0.0441	-0.0468 -0.0413

### Odds Ratio Estimates and Profile-Likelihood Confidence Intervals

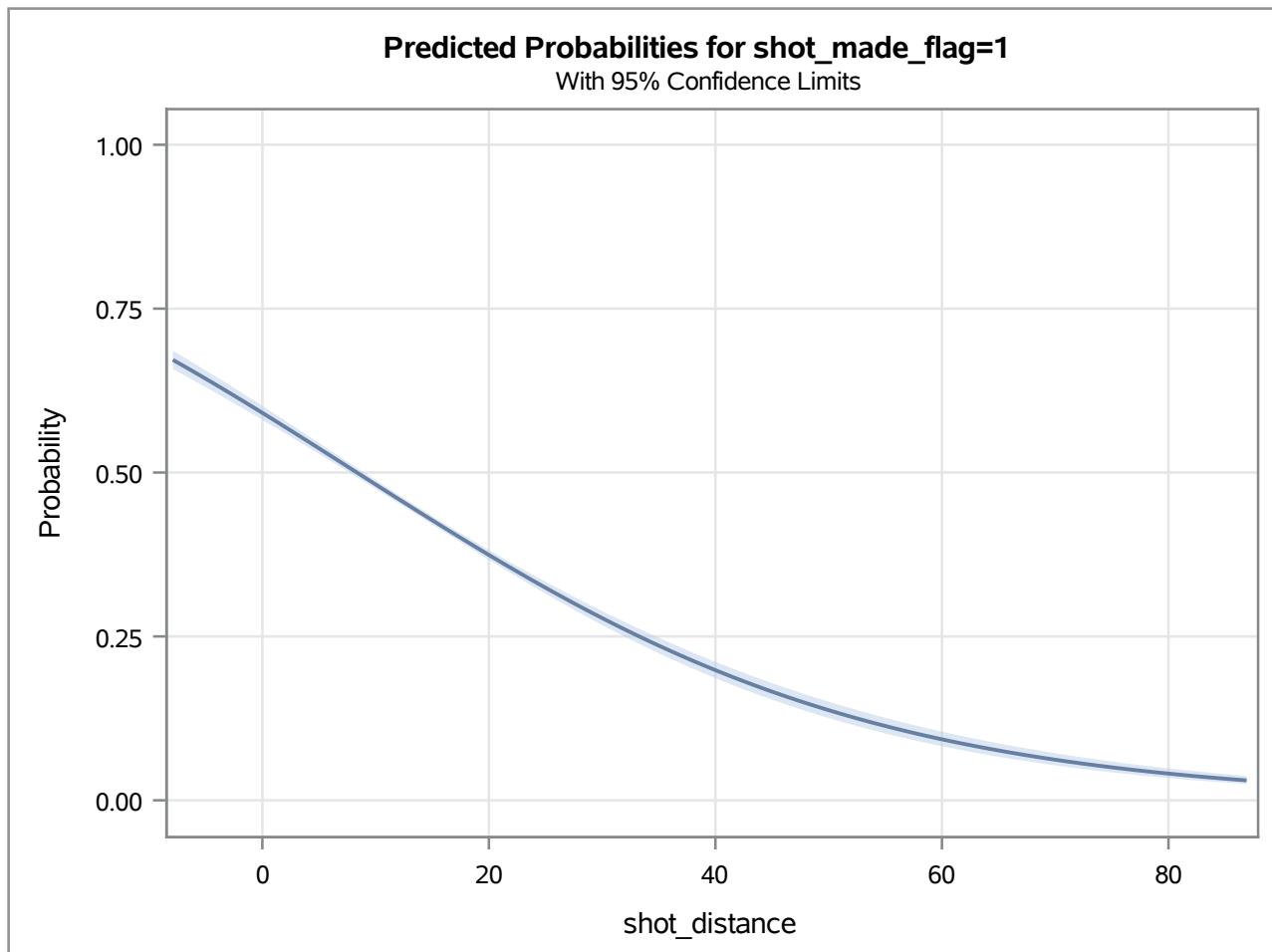
Effect	Unit	Estimate	95% Confidence Limits
shot_distance	1.0000	0.957	0.954 0.959

### ROC Curve for Model

Area Under the Curve = 0.6107



## The LOGISTIC Procedure



## The LOGISTIC Procedure

Model Information	
Data Set	WORK.TRAIN2
Response Variable	shot_made_flag 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 0		14232
2 1		11465

Probability modeled is shot\_made\_flag='1'.

### Model Convergence Status

Convergence criterion (GCONV=1E-8) satisfied.

### Model Fit Statistics

Criterion	Intercept		Intercept and Covariates
	Only	Covariates	
AIC	35327.083	34300.621	
SC	35335.237	34325.084	
-2 Log L	35325.083	34294.621	

R-Square 0.0393 Max-rescaled R-Square 0.0526

### Testing Global Null Hypothesis: BETA=0

Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	1030.4614	2	<.0001
Score	1010.0876	2	<.0001
Wald	983.4148	2	<.0001

### Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	Chi-Square	Pr > ChiSq
Intercept	1	0.3707	0.0231	258.6142	<.0001
shot_distance	1	-0.0441	0.00141	983.3929	<.0001
playoffs	1	-0.0178	0.0362	0.2420	0.6228

### Association of Predicted Probabilities and Observed Responses

Percent Concordant	58.9	Somers' D	0.222
Percent Discordant	36.7	Gamma	0.232
Percent Tied	4.3	Tau-a	0.110
Pairs	163169880	c	0.611

### The LOGISTIC Procedure

#### Parameter Estimates and Wald Confidence Intervals

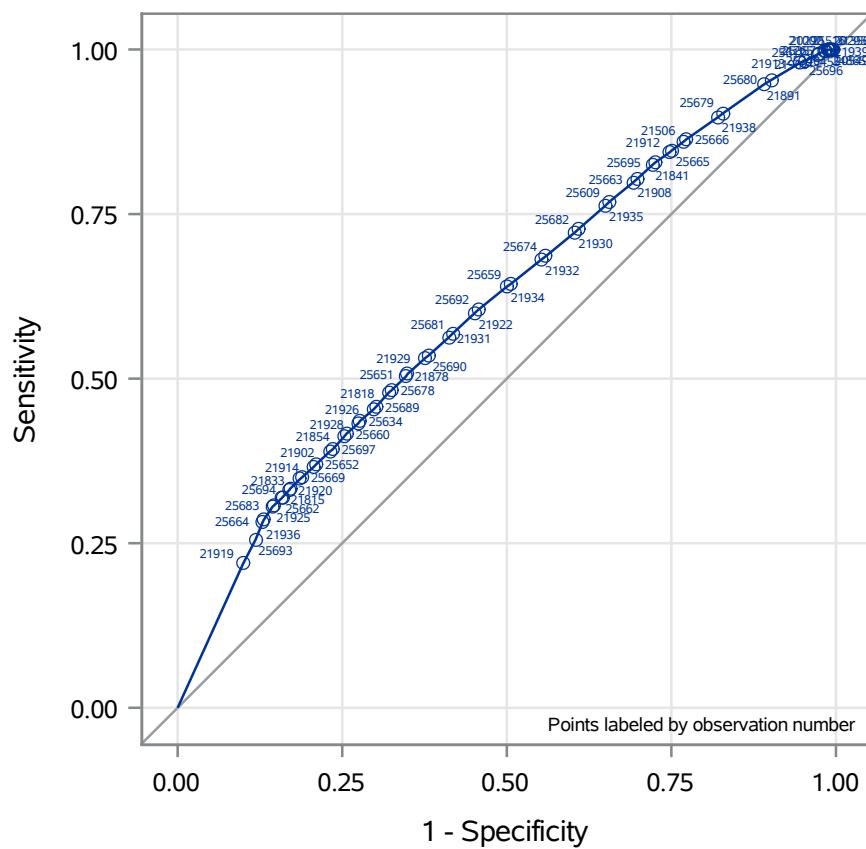
Parameter	Estimate	95% Confidence Limits
Intercept	0.3707	0.3255 0.4159
shot_distance	-0.0441	-0.0469 -0.0413
playoffs	-0.0178	-0.0889 0.0532

#### Odds Ratio Estimates and Profile-Likelihood Confidence Intervals

Effect	Unit Estimate	95% Confidence Limits
shot_distance	1.0000	0.957 0.954 0.959
playoffs	1.0000	0.982 0.915 1.055

#### ROC Curve for Model

Area Under the Curve = 0.6110



## The LOGISTIC Procedure

**Predicted Probabilities for shot\_made\_flag=1 with 95% Confidence Limits**

At playoffs=0.146

