



**Golf
Laboratories, Inc.**
Independent Equipment Testing

**Client: Four D
Date: February 19, 2010
Test: Club**

Executive Summary

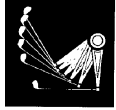
Robot Parameters		Weather	Test Comments
Amps: 27		Temp: 58	
Initial Percent: 60		Wind: 10-15 mph	
Ramp Distance: 81		Direction: Head	
Release Point: 160		Humidity: 63	
Lie Angle: 54		Bar: 30.29	
Tee Table Position: 12		Ground Cond.: oft & damp	

Swing Data Launch Data (Center Hit Averages)

Club	Swing Data						Launch Data						
	A/A	Club Path	Vert. SP	Horiz. SP	Dyn. Loft	F/A	H/S	B/S	Ratio	L/A	H L/A	SPIN	SPIN AXIS
FOUR D55	-1.1	-0.5	55.7	-1.3	15.7	-2.0	85.8	121.7	1.4	12.7	-1.7	2846.7	2.9
Ping	-1.5	-0.4	56.2	-1.4	15.0	-6.8	84.6	118.7	1.4	12.8	-5.9	2757.1	8.1
Cleveland	-2.2	0.0	55.2	-1.6	18.0	-3.1	87.6	119.1	1.4	15.3	-2.7	2740.7	6.0
Cobra	-0.9	-0.7	55.2	-1.4	15.8	-3.9	82.8	120.9	1.5	12.9	-3.3	2908.1	3.6
Callaway	-0.1	-0.6	59.1	-0.7	17.5	-2.7	83.5	119.5	1.4	14.7	-2.3	3488.0	2.1

Legend

A/A-Attack Angle Degrees	H/S-Head Speed MPH	Spin Axis-Side Rotation Positive right, Negative left
Club Path-Degrees	B/S-Ball Speed MPH	
Vertical SP-Swing Plane-Degrees	Ratio-Head Speed to Ball Speed	
Horiz. SP-Horizontal Swing Plane Degrees	L/A-Launch Angle Degrees	
Dyn. Loft-Dynamic Loft Degrees	H L/A-Horizontal Launch Angle Degrees	
F/A-Face Angle Degrees	Spin-Revolutions Per Minute	



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	Swing Data				Launch Data				Flight Data				Descent Data			Landing Data				Wind				
	A/A	Club Path	Vert. SP	Horiz. SP	Dyn. Loft	F/A	H/S	B/S	Ratio	L/A	H L/A	SPIN	SPIN AXIS	MAX HGHT DR.	MAX HGHT	VERT. LAND	B/S	F TIME	C-DISP	C-DIST	T-DISP	T-DIST	ROLL	VEL
Club: FOUR D55																								
Head: 12 Four-D																								
Shaft: Four D "R"																								
Center Hits																								
Avg.	-1.1	-0.5	55.7	-1.3	15.7	-2.0	85.8	121.7	1.4	12.7	-1.7	2846.7	2.9	117.1	20.8	-36.8	56.0	5.5	4.9	186.2	6.2	209.2	23.0	2.7
S/D	0.2	0.3	0.5	0.2	1.2	0.3	2.7	0.2	0.0	0.5	0.3	134.5	1.3	2.5	1.3	3.3	1.8	0.1		3.8		5.2	7.9	1.5
Toe Hits																								
Avg.	0.1	-22.4	50.7	-22.4	12.9	3.9	82.8	118.6	1.4	12.7	2.5	2736.4	-2.3	113.0	19.3	-37.1	55.5	7.7	7.7	180.0	9.5	205.7	25.7	2.3
S/D	0.5	0.1	0.2	0.3	0.0	0.6	2.3	0.4	0.0	0.4	0.3	72.2	3.6	1.9	0.8	2.1	1.9	0.1		1.3		5.9	6.4	1.4
Heel Hits																								
Avg.	-1.5	-0.4	56.3	-1.4	15.0	-6.8	84.5	118.7	1.4	12.7	-5.9	2795.1	8.5	112.2	20.1	-37.8	56.2	5.3	13.9	179.0	14.1	202.5	20.8	2.5
S/D	0.2	0.1	0.5	0.1	0.2	0.3	0.2	0.1	0.0	0.2	0.3	106.3	4.0	1.3	0.5	0.8	1.0	0.1		2.1		5.1	4.7	1.2
Club: Ping																								
Head: 12 G15																								
Shaft: TFC 149 D 'R'																								
Center Hits																								
Avg.	-1.5	-0.4	56.2	-1.4	15.0	-6.8	84.6	118.7	1.4	12.8	-5.9	2757.1	8.1	112.1	20.1	-37.8	56.1	5.3	7.2	187.5	8.8	207.8	20.3	6.3
S/D	0.2	0.1	0.5	0.1	0.2	0.3	0.2	0.1	0.0	0.3	0.2	133.1	3.7	1.2	0.5	0.7	0.9	0.1		1.0		2.1	2.3	2.9
Toe Hits																								
Avg.	-0.7	-0.7	54.3	-1.3	19.0	2.5	87.8	118.4	1.3	14.1	1.8	2778.5	0.8	111.9	21.0	-37.5	58.4	5.3	9.0	183.3	9.7	207.2	23.8	2.8
S/D								0.2		0.3	0.1	92.4	2.6	0.9	0.6	2.0	0.9	0.0		3.1		7.9	7.5	1.3
Heel Hits																								
Avg.	-1.4	-0.1	28.9	-0.9	8.3	-3.9	51.2	78.0	0.8	9.4	-4.6	1843.8	4.9	74.3	14.4	-25.3	37.1	3.6	18.2	176.5	17.3	195.3	18.8	2.7
S/D	1.8	0.5	33.4	1.1	9.5	4.5	46.7	60.5	0.8	7.3	3.6	1429.9	4.4	57.6	11.2	19.6	28.7	2.8		1.9		9.2	8.8	1.4
Club: Cleveland																								
Head: 12 Laucher DST																								
Shaft: Diamana 'R Flex																								
Center Hits																								
Avg.	-2.2	0.0	55.2	-1.6	18.0	-3.1	87.6	119.1	1.4	15.3	-2.7	2740.7	6.0	113.8	22.6	-37.3	60.8	5.4	5.1	187.7	5.9	212.2	24.5	2.8
S/D	1.1	1.0	1.5	0.4	0.9	0.6	1.5	0.2	0.0	0.5	0.3	99.9	3.6	1.2	0.4	0.9	0.4	0.1		1.2		3.5	4.3	1.0
Toe Hits																								
Avg.	-0.6	-1.4	55.1	-1.8	17.2	0.1	85.9	119.7	1.4	14.9	-0.3	2649.7	1.2	113.7	21.9	-35.2	63.6	5.2	5.9	189.2	8.2	220.3	31.2	3.3
S/D	0.4	0.1	0.3	0.2	0.5	0.6	0.3	0.4	0.0	0.2	0.5	85.2	3.1	1.9	0.6	1.1	0.6	0.1		1.8		2.6	2.0	1.6
Heel Hits																								
Avg.	-1.2	-0.2	57.1	-1.0	17.2	-6.2	85.8	116.7	1.4	14.6	-5.3	2726.5	7.8	108.9	20.2	-33.9	62.5	5.1	11.0	181.0	8.8	212.5	31.5	2.7
S/D	0.1	0.1	0.4	0.2	1.0	0.3	0.1	0.4	0.0	0.3	0.3	126.5	2.6	0.7	0.5	0.8	0.7	0.1		1.3		4.9	5.0	1.4
Club: Cobra																								
Head: 11.5 King Cobra S9-1																								
Shaft: Aldila DVS-HL 50-R																								
Center Hits																								
Avg.	-0.9	-0.7	55.2	-1.4	15.8	-3.9	82.8	120.9	1.5	12.9	-3.3	2908.1	3.6	116.7	20.6	-36.0	59.5	5.3	8.5	190.2	10.3	210.7	20.5	6.2
S/D	2.1	1.6	1.8	1.3	1.0	0.4	1.9	0.2	0.0	0.3	0.2	75.2	2.6	1.5	0.8	1.7	1.3	0.1		2.3			5.0	2.1
Toe Hits																								
Avg.	-0.5	-1.1	54.0	-1.5	16.0	1.5	83.6	119.9	1.4	13.0	1.0	2902.8	-2.4	112.4	20.1	-36.1	59.4	5.2	14.1	184.0	16.4	207.2	23.2	4.5
S/D	0.7	1.2	2.4	0.8	1.4	0.6	2.3	0.3	0.0	0.5	0.4	39.8	1.8	0.7	0.6	1.6	0.4	0.1		3.9			5.3	3.3
Heel Hits																								
Avg.	-0.4	-0.4	28.7	-0.6	7.3	-4.1	66.3	97.6	1.1	10.7	-5.9	2408.2	6.6	90.9	16.3	-31.0	49.2	4.2	15.5	178.3	15.8	195.0	16.7	1.8
S/D	0.5	0.5	40.6	0.8	10.4	5.8	37.1	47.8	0.6	5.3	2.9	1185.6	4.0	44.5	8.0	15.2	24.1	2.1		1.8			6.3	0.8



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	A/A	Club Path	Vert. SP	Horiz. SP	Dyn. Loft	F/A	H/S	B/S	Ratio	L/A	H L/A	SPIN	SPIN AXIS	MAX HGHT DR.	MAX HGHT	VERT. LAND	B/S	F TIME	C-DISP	C-DIST	T-DISP	T-DIST	ROLL	VEL	
Club: Callaway																									
Head: 11 Big Bertha Draw																									
Shaft: Aldila DVS 'R'																									
Center Hits																									
Avg.	-0.1	-0.6	59.1	-0.7	17.5	-2.7	83.5	119.5	1.4	14.7	-2.3	3488.0	2.1	116.2	24.3	-41.3	59.1	5.6	6.7	182.0	8.9	206.0	24.0	6.7	
S/D							0.4		0.2	0.3		153.1	3.1	0.9	0.5	1.5	1.2	0.1		1.7	3.9	3.8	4.2		
Toe Hits																									
Avg.	-0.4	-1.3	57.4	-1.5	17.0	2.2	83.9	117.4	1.4	14.2	1.8	3375.6	-1.0	113.4	23.3	-41.7	57.1	5.5	12.6	178.0	14.1	195.5	17.5	6.5	
S/D	0.1	1.9	1.4	2.0	0.5	0.3	1.9	0.4	0.0	0.4	0.3	119.8	3.3	1.6	0.3	1.2	1.2	0.1		1.5	3.6	4.6	3.9		
Heel Hits																									
Avg.	-0.8	-0.6	58.7	-1.0	17.6	-7.1	83.3	117.0	1.4	14.9	-6.1	3227.4	4.9	111.5	23.6	-41.1	59.1	5.5	14.1	178.8	13.7	195.8	17.0	2.7	
S/D	0.1	0.6	1.0	0.5	0.2	0.0	0.2	0.2	0.0	0.2	0.1	84.1	2.4	0.9	0.3	1.1	0.6	0.1		1.5	7.5	6.8	1.4		