



CHALLENGE

## 2008 EBT Ebonite English Open

KEGEL



### TECHNICAL REPORT

3 -7 December · 2008

Lakeside Superbowl · Nuneaton · United Kingdom

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**Tournament Director**

Andy James

**Kegel Technician**

Sven Scheepers

**Pattern Design**

Kegel Team

**Lane Surface**

Urethane coated wood

Last Resurfaced May 2007

Last Screened (heads only) October 2008

**Pinsetters | Pins**

AMF 82/70 | Brunswick Max

**Lane Maintenance Machinery**

Kegel Kustodian Ion

**Lane Conditioner**

Kegel Infinity

**Lane Cleaner**

Kegel Defense C mixed at 6 to 1

**Kegel Pattern KODE**

3940

**Pattern Distance**

40 Feet

**Pattern Volume**

Forward 13.80 mL

Reverse 12.44 mL

Total 26.24 mL

**Side to Side Ratios**

22' 3.9 to 1

38' 3.0 to 1

**Front to Back Taper Ratios**

Outside Taper 3.2 to 1

Inside Taper 3.2 to 1



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### Side to Side Ratios

22' 3.9 to 1

38' 3.0 to 1

The 2D chart below shows select ratios at key distances throughout the pattern. Here we are using USBC Sport Bowling ratios which are calculated by the average amount of oil in units from 18L-18R divided by the average from boards 3L-7L and 7R-3R. Side to side ratios can be an indicator of the difficulty of a pattern. Generally, the lower the ratios, the more difficult the pattern.

08' ~ 3.1 to 1

14' ~ 3.9 to 1

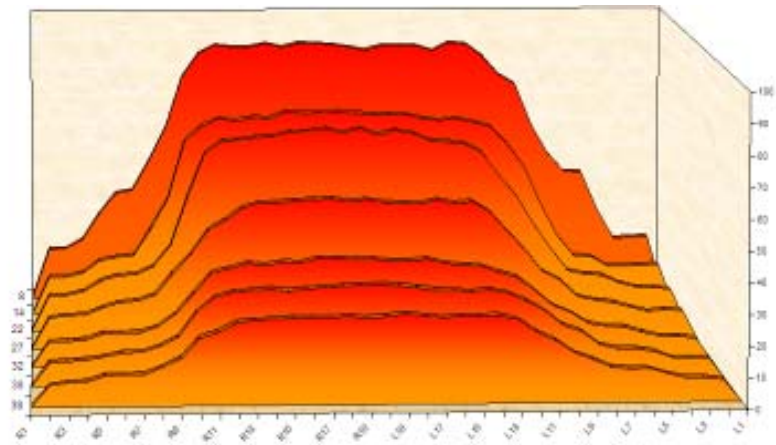
22' ~ 3.9 to 1

27' ~ 3.6 to 1

32' ~ 3.4 to 1

36' ~ 3.2 to 1

38' ~ 3.0 to 1

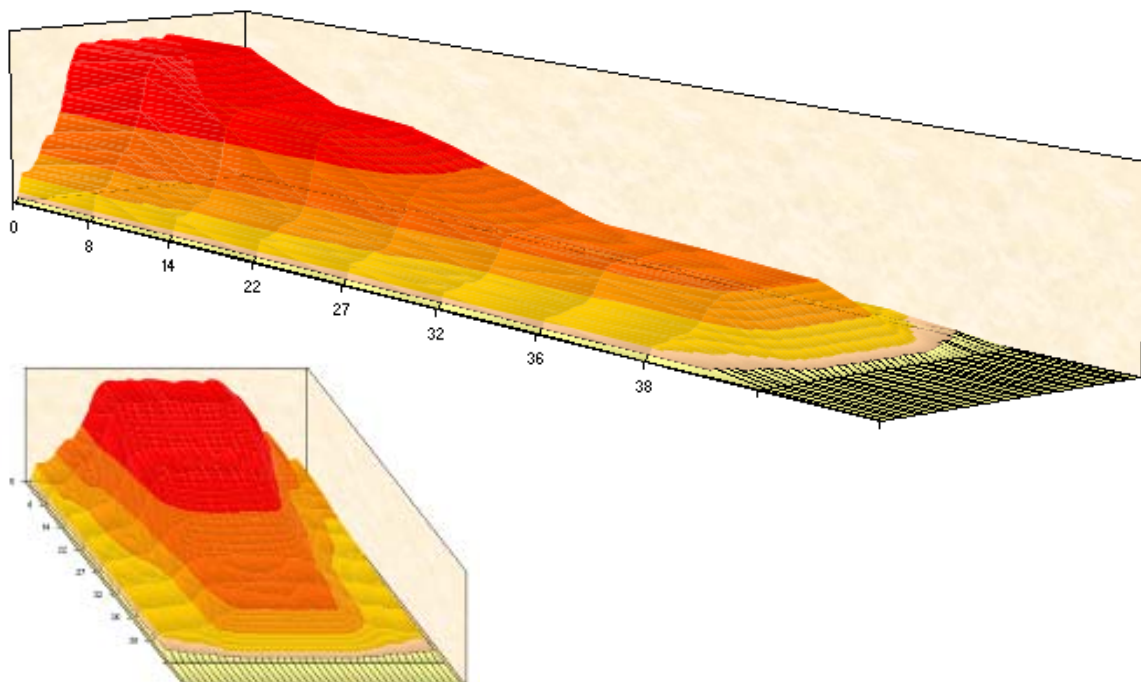


### Front to Back Taper Ratios

Outside Taper 3.2 to 1

Inside Taper 3.2 to 1

The 3D charts below gives a visual of how the conditioner tapers off from the front end of the pattern to the back end of the pattern.





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## Kegel Sanction Technology™ Lane Machine Program

Oil per Board (Oil Pump Setting): 40 µL

Pattern Distance: 40 feet



### Forward Pass Settings

Screen #	Left End of load Stream	Right End of load Stream	# Load Streams	Travel Speed (in/sec)	Beginning Distance of Load (feet)	Ending Distance of Load (feet)	# Boards Crossed per Load	Total Boards Crossed	Total Volume of Oil (µL)
01F	2	2	3	10.00	0.00	2.80	37	111	4440
02F	6	6	1	10.00	2.80	4.20	29	29	1160
03F	9	9	1	10.00	4.20	5.60	23	23	920
04F	10	10	2	10.00	5.60	8.40	21	42	1680
05F	11	10	2	14.00	8.40	12.30	20	40	1600
06F	12	11	2	14.00	12.30	16.20	18	36	1440
07F	13	11	2	14.00	16.20	20.10	17	34	1360
08F	14	12	2	14.00	20.10	24.00	15	30	1200
09F	2	2	0	18.00	24.00	32.00	0	0	Buff only
10F	2	2	0	26.00	32.00	40.00	0	0	Buff only

Forward Oil: 13.80 mL

### Reverse Pass Settings

01R	2	2	0	26.00	40.00	30.00	0	0	Buff only
02R	12	11	1	14.00	30.00	28.10	18	18	720
03R	11	11	1	14.00	28.10	26.20	19	19	760
04R	10	10	2	14.00	26.20	22.30	21	42	1680
05R	9	9	2	14.00	22.30	18.40	23	46	1840
06R	8	8	2	14.00	18.40	14.50	25	50	2000
07R	5	5	2	14.00	14.50	10.60	31	62	2480
08R	2	2	2	10.00	10.60	7.80	37	74	2960
09R	2	2	0	10.00	7.80	0.00			

Reverse Oil: 12.44 mL

**Total Forward + Reverse Oil: 26.24 mL**



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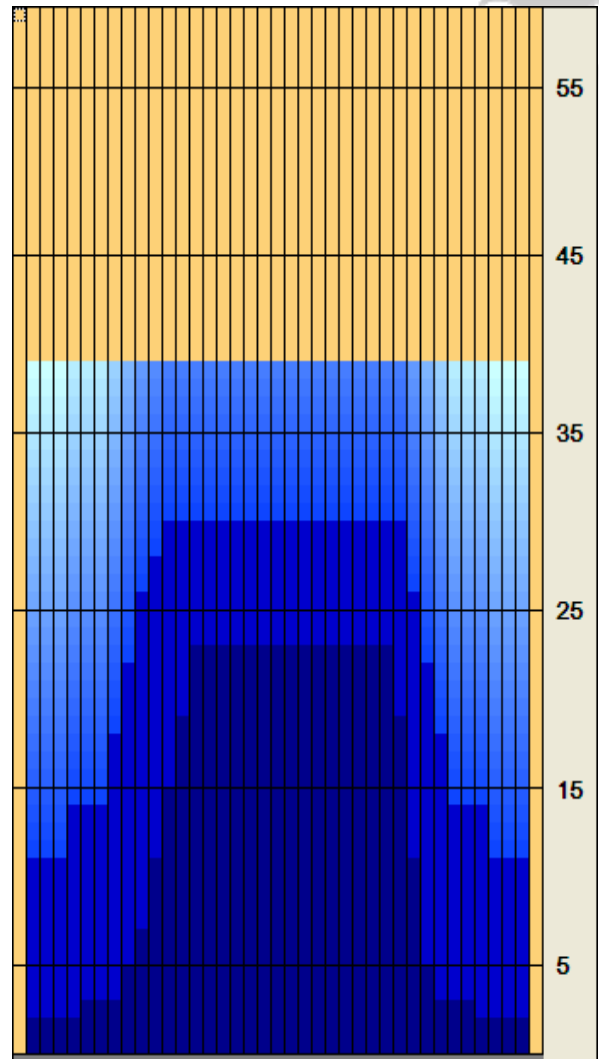
The charts on this page are generated by Kegel's KOSI lane machine software from the Kegel Sanction Technology™ program sheet.



The **OVERHEAD CHART** on the right shows where the conditioner is applied on both the forward and reverse screens. The gradient area is a calculation of how the conditioner might bleed off the buffer brush.

The **COMPOSITE GRAPH** below shows the total amount of conditioner applied to every board. A good way to think about this graph is to envision all the conditioner on the lane being pushed back to the foul line. Once all the conditioner is stacked up, this is what it would look like.

The **RATIOS** above the composite graph are also calculated by the lane program sheet and represent the ratios by total volume. Lower ratio patterns are more difficult.



<b>Arrow Zone Ratio</b>	Item	2-5L:16L-20	6-10L:16L-20	11-15L:16L-20	16L-20:20-16R	16L-20:20-16R	20-16R:15-11R	20-16R:10-6R	20-16R:5-2R
	ul Arrow	220	448	976	1080	1080	1064	464	220
	Zone Ratio	4.91	2.41	1.11	1	1	1.02	2.33	4.91
<b>Track Zone Ratio</b>	Item	3L-7L:18L-18R		8L-12L:18L-18R	13L-17L:18L-18R	18L-18R:17R-13R	18L-18R:12R-8R	18L-18R:7R-3R	
	Description	Outside Track:Middle		Middle Track:Middle	Inside Track:Middle	Middle: Inside Track	Middle:Middle Track	Middle:Outside Track	
	Track Zone Ratio	4.09		1.63	1.02	1	1.44	4.09	

Oil Per Board: **40 uL**      Forward Oil **13.8 mL**      Reverse Oil **12.44 mL**  
 Pattern **40 Feet**      Volume Oil **26.24**

