

IV Commonwealth Tenpin Bowling Championships 22–30 November 2008 Dundonald International Ice Bowl, Belfast



Technical Information and Oil Patterns

Dundonald International Ice Bowl has 30 lanes split into two areas, twenty lanes in the main area with a further ten lanes on a higher level. There are different lane surfaces on the two sets of lanes so only the twenty lanes in the main area will be used for the Championships.

The lanes are originally wood. These have had the head section (11 feet, 3.35m) replaced with MDF then the full lane length over-laid with AMF HPL synthetic lane approximately 6 years ago. The approaches remain wood.

Pin decks are synthetic, edge boards and flat gutters are HDPE plastic, kickback panels are fibre.

Pinspotters are AMF 82-70mp with PBL Ball Lifts.

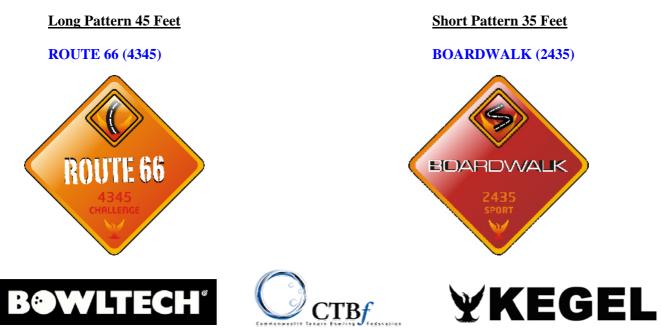
Lane dressing equipment will be brought in for the tournament.

Equipment Summary:

Lane Surface:	AMF HPL Overlay
Approaches:	Wood
Pinspotters:	AMF 82-70mp
Pins:	QubicaAMF Amflite II Glow 3/8-3/9 Batch April 2008
Lane Dressing:	Kegel Kustodian Walker (Sanction Technology)
Lane Conditioner:	Kegel Offense-HV
Lane Cleaner:	Kegel Defense-C

Lane equipment and chemicals supplied by Kegel and Bowltech UK Ltd.

Two patterns will be used for the event, one long one short. These have been selected from the Kegel Navigation series. Booklets containing details of the patterns are attached. The patterns may be subject to minor adjustment during practice to suit playing environment.











ROUTE 66

CHALLENGE SERIES

ROUTE 66 4345

As one the longest roads in America, so is this pattern in the series. At 45 feet in length, and as with most long oil patterns, the optimum line is usually one that is closer to the pocket or more towards the inside portion of the lane. The greatest slope of conditioner on the ROUTE 66 is from the 11th board to the 16th board so players should target along this route. Outside of that slope, the pattern is flat so there will be very little room for error. If If you get hip to this tip, take that bowling center trip to get your kicks on ROUTE 66!

Latitude Ratio Coordinates

22' 4.3 to 1 43' 2.6 to 1

Longitude Ratio Coordinates

Outside Taper 3.4 to 1 Inside Taper 3.2 to 1

Pattern Distance

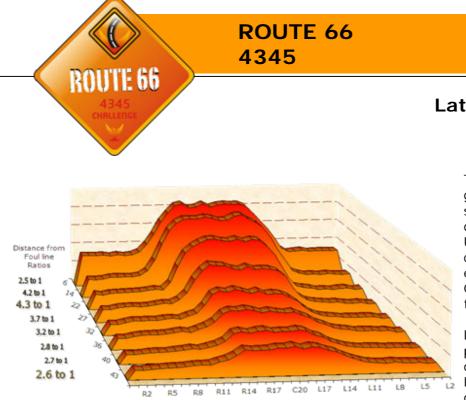
45 Feet

Pattern Volume

Forward 10.30 mL Reverse 13.00 mL Total 23.30 mL



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Latitude Ratio Coordinates

22' 4.3 to 1 43' 2.6 to 1

The 2D chart on the left was generated by Lane Monitor showing select tapes and ratios at key distances throughout the pattern. USBC Sport Bowling ratios are calculated at 22' and 2' before the end of the pattern. All Latitude Ratio Coordinates are calculated from these two distances.

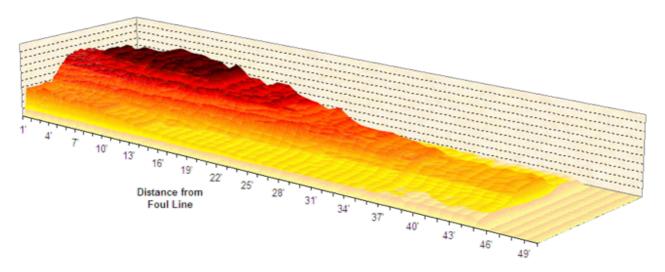
Latitude ratios in the last half of the pattern can be an indicator of the difficulty of a pattern. Generally, the lower the ratios down lane, the more difficult the pattern.

Longitude Ratio Coordinates

Outside Taper 3.4 to 1 Inside Taper 3.2 to 1

KEGEL

The 3D chart below was generated by taking tapes every foot of the pattern. This gives a visual of how the conditioner tapers off from the front to the end of the pattern.





CHALLENGE SERIES



ROUTE 66

4345

Kegel Sanction Technology[™] Lane Machine Settings

Oil per Board (Pump Setting): 50 µL

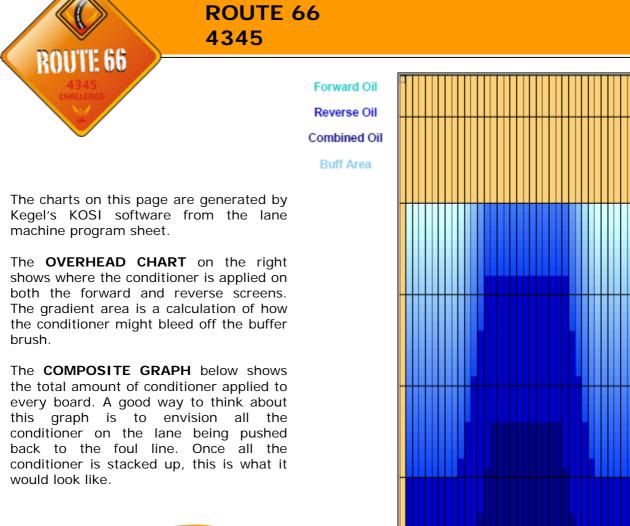
Pattern Distance: 45 feet

				Forwar	d Settings				
Screen #	Left End of Stream	Right End of Stream	# Loads or 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	14.00	0.00	3.90	37	111	5550
02F	12	12	1	14.00	3.90	5.80	17	17	850
03F	13	13	2	18.00	5.80	10.90	15	30	1500
04F	14	14	2	18.00	10.90	16.00	13	26	1300
05F	15	15	2	18.00	16.00	21.10	11	22	1100
06F	2	2	0	18.00	21.10	26.00			
07F	2	2	0	26.00	26.00	36.00			
08F	2	2	0	30.00	36.00	45.00			
09F									
Forwa	ard Buff Scre	eens: 3		Forward #	Boards Crossed	I Volume mL		206	10.30
				Rever	se Settings				
Screen #	Left End of Stream	Right End of Stream	# Loads or 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)
01R	2	2	0	30.00		36.00			
02R	14	14	2	22.00	36.00	29.80	13	26	1300
03R	13	13	2	18.00	29.80	24.70	15	30	1500
04R	12	12	2	18.00	24.70	19.60	17	34	1700
05R	11	11	2	14.00	19.60	15.70	19	38	1900
06R	10	10	1	14.00	15.70	13.80	21	21	1050
07R	2	2	3	14.00	13.80	7.90	37	111	5550
08R	2	2	0	14.00	7.90	0.00			
09R									
Reverse # Boards Crossed Volume mL							260	13.00	
Forward plus Reverse Boards Crossed Volume mL							466	23.30	

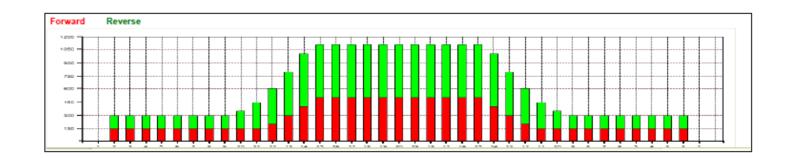




CHALLENGE SERIES















SPORT SERIES



BOARDWALK 2435

Based upon the 2000 PBA Indianapolis Open pattern which was created by Kegel, this pattern is designed to play towards the edge board. Because of the relatively short 35 foot length of the BOARDWALK, players will need to control the excessive change of direction of the bowling ball as it enters the 25 feet of dry backend. Since lanes do have many topographical differences, on some lanes the BOARDWALK will require a more direct route to the pocket while other lane characteristics may allow players to swing the ball to the edge board. Like all wooden walkways, this pattern can provide great excitement but stray too far off the BOARDWALK and you'll find yourself in the moat!

Latitude Ratio Coordinates

22' 2.4 to 1 33' 2.1 to 1

Longitude Ratio Coordinates

Outside Taper 2.5 to 1 Inside Taper 2.3 to 1

Pattern Distance

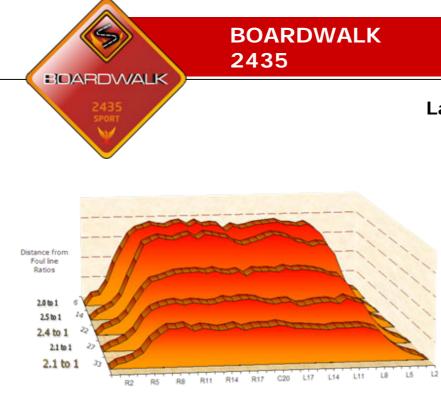
35 Feet

Pattern Volume

Forward 10.55 mL Reverse 13.35 mL Total 23.90 mL



SPORT SERIES



Latitude Ratio Coordinates

22' 2.4 to 1 33' 2.1 to 1

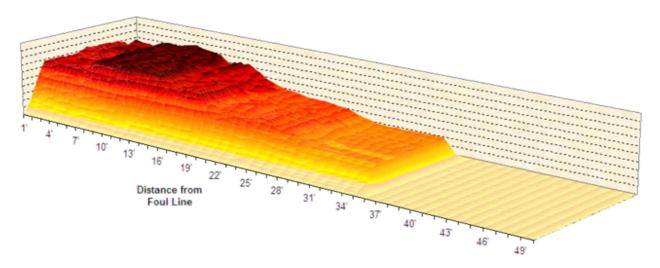
The 2D chart on the left was generated by Lane Monitor showing select tapes and ratios at key distances throughout the pattern. USBC Sport Bowling ratios are calculated at 22' and 2' before the end of the pattern. All Latitude Ratio Coordinates are calculated from these two distances.

Latitude ratios in the last half of the pattern can be an indicator of the difficulty of a pattern. Generally, the lower the ratios down lane, the more difficult the pattern.

Longitude Ratio Coordinates Outside Taper 2.5 to 1

Inside Taper 2.3 to 1

The 3D chart below was generated by taking tapes every foot of the pattern. This gives a visual of how the conditioner tapers off from the front to the end of the pattern.





SPORT SERIES



BOARDWALK 2435

Kegel Sanction Technology™ Lane Machine Settings

Oil per Board (Pump Setting): 50 μL

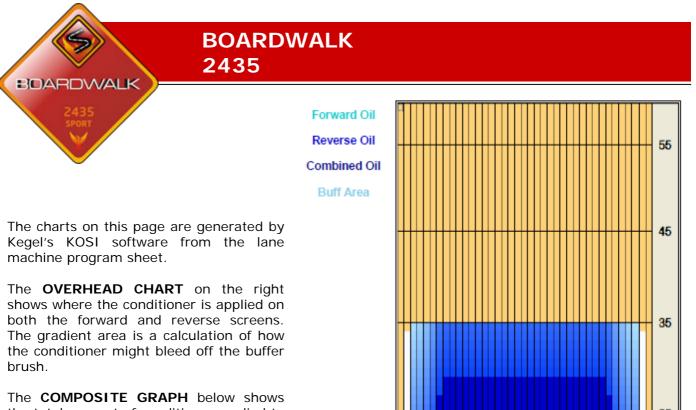
Pattern Distance: 35 feet

				Forwa	rd Settings				
Screen #	Left End of Stream	Right End of Stream	# Loads or 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	1	14.00	0.00	0.00	37	37	1850
02F	5	5	2	14.00	0.00	3.90	31	62	3100
03F	6	6	2	18.00	3.90	9.00	29	58	2900
04F	7	7	2	18.00	9.00	14.10	27	54	2700
05F	2	2	0	22.00	14.10	26.00			
06F	2	2	0	26.00	26.00	35.00			
07F									
08F									
09F									
Forw	ard Buff Scre	eens: 2		211	10.55				
			•	Rever	se Settings				
Screen #	Left End of Stream	Right End of Stream	# Loads or 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)
01R	2	2	0	30.00		28.00			
02R	8	8	1	18.00	28.00	25.50	25	25	1250
03R	7	7	2	18.00	25.50	20.40	27	54	2700
04R	6	6	2	14.00	20.40	16.50	29	58	2900
05R	5	5	2	14.00	16.50	12.60	31	62	3100
06R	4	4	1	14.00	12.60	10.70	33	33	1650
07R	3	3	1	14.00	10.70	8.80	35	35	1750
08R	2	2	0	14.00	8.80	0.00			
09R									
Reverse # Boards Crossed Volume mL							267	13.35	
Forward plus Reverse Boards Crossed Volume mL							478	23.90	





SPORT SERIES



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.



