

2023 NHIAA Bowling Tournament Oil Pattern Possibilities

Criteria

- Length: 41' to 48'
- Kegel Pattern
- Volume: Greater than 23mL
- Ratio: 10:1 - 4:1
- Symmetrical in shape

Recommended Patterns:

From Least to Most Challenging

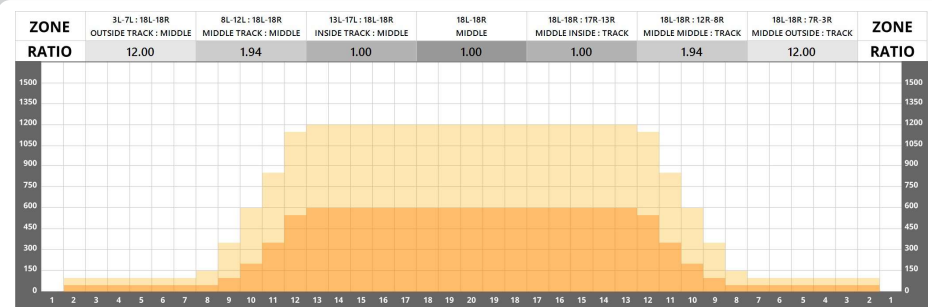
- 1) Lithium 9144 (Recreation)
 - Distance: 44'
 - Ratio: 9.15:1
 - Volume: 24.69mL
- 2) Big Ben 6544 (Recreation)
 - Distance: 44'
 - Ratio: 7.33:1
 - Volume: 24.7mL
- 3) Chromium 6742 (Challenge)
 - Distance: 42'
 - Ratio: 6.71:1
 - Volume: 25.56mL
- 4) Gateway Arch 8442 (Recreation)
 - Distance: 42'
 - Ratio: 6.58:1
 - Volume: 25.99mL
- 5) Route 66 V2 6245 (Challenge) (Note use Version 2 ONLY)
 - Distance: 45'
 - Ratio: 6.25:1
 - Volume: 23.45mL
- 6) Great Wall of China 5448 (Recreation)
 - Distance 48'
 - Ratio: 5.50:1
 - Volume: 23.46mL
- 7) Titanium 4244 (Challenge)
 - Distance: 44'
 - Ratio: 4.21:1
 - Volume: 25.3mL



2022 STARTING HOUSE PATTERN



DISTANCE:	43 FEET	VOLUME:	25.4 mL
RATIO:	12	FORWARD:	12.1 mL
DROP BRUSH:	40 FEET	REVERSE:	13.3 mL
TANKS:	KEGEL	PUMP:	50µL

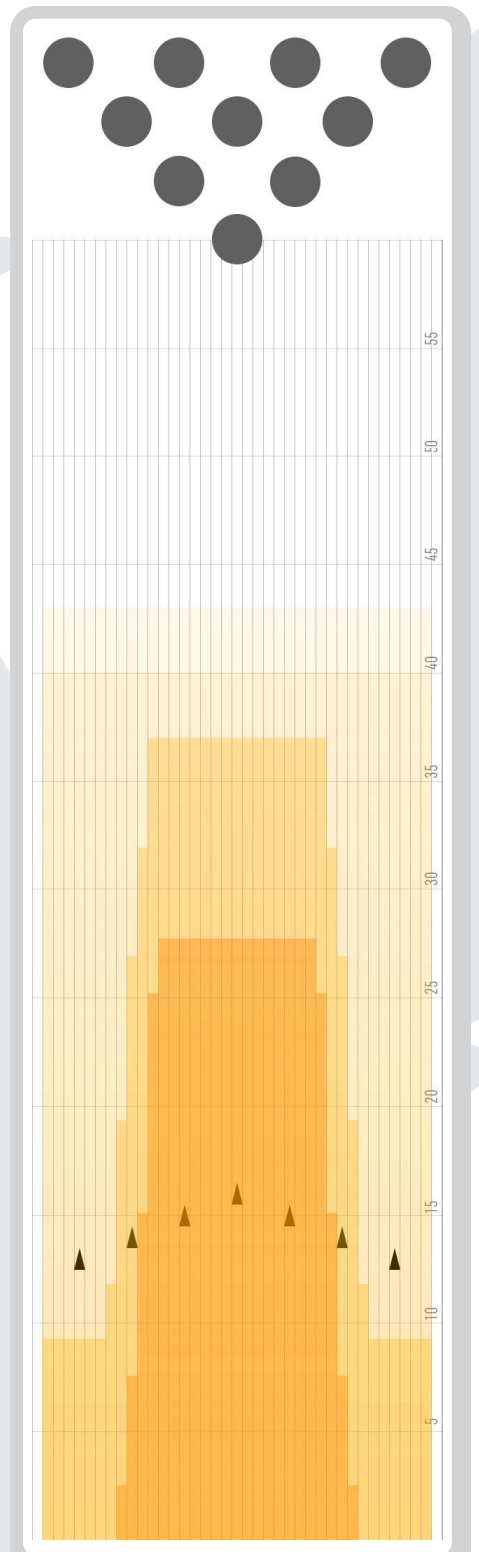


FORWARD LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	1	50	14	3	A - KEGEL	0 → 0	1,850
2	9L	9R	1	50	18	3	A - KEGEL	0 → 3	1,150
3	10L	10R	2	50	18	3	A - KEGEL	3 → 8	2,100
4	11L	11R	3	50	18	3	A - KEGEL	8 → 15	2,850
5	12L	12R	4	50	18	3	A - KEGEL	15 → 25	3,400
6	13L	13R	1	50	18	3	A - KEGEL	25 → 28	750
7	2L	2R	0	50	18	3	A - KEGEL	28 → 38	0
8	2L	2R	0	50	22	3	A - KEGEL	38 → 43	0

REVERSE LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	0	50	30	3	A - KEGEL	40 → 37	0
2	12L	12R	2	50	18	3	A - KEGEL	37 → 32	1,700
3	11L	11R	2	50	18	3	A - KEGEL	32 → 27	1,900
4	10L	10R	3	50	18	3	A - KEGEL	27 → 19	3,150
5	9L	9R	3	50	18	3	A - KEGEL	19 → 12	3,450
6	8L	8R	1	50	18	3	A - KEGEL	12 → 9	1,250
7	2L	2R	1	50	18	3	A - KEGEL	9 → 7	1,850
8	2L	2R	0	50	18	3	A - KEGEL	7 → 0	0



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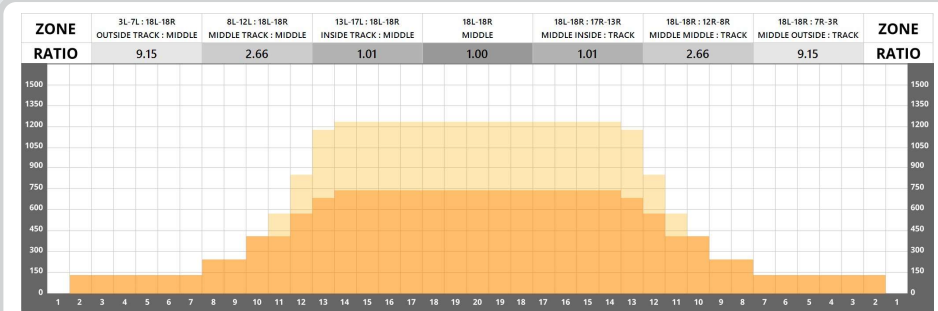
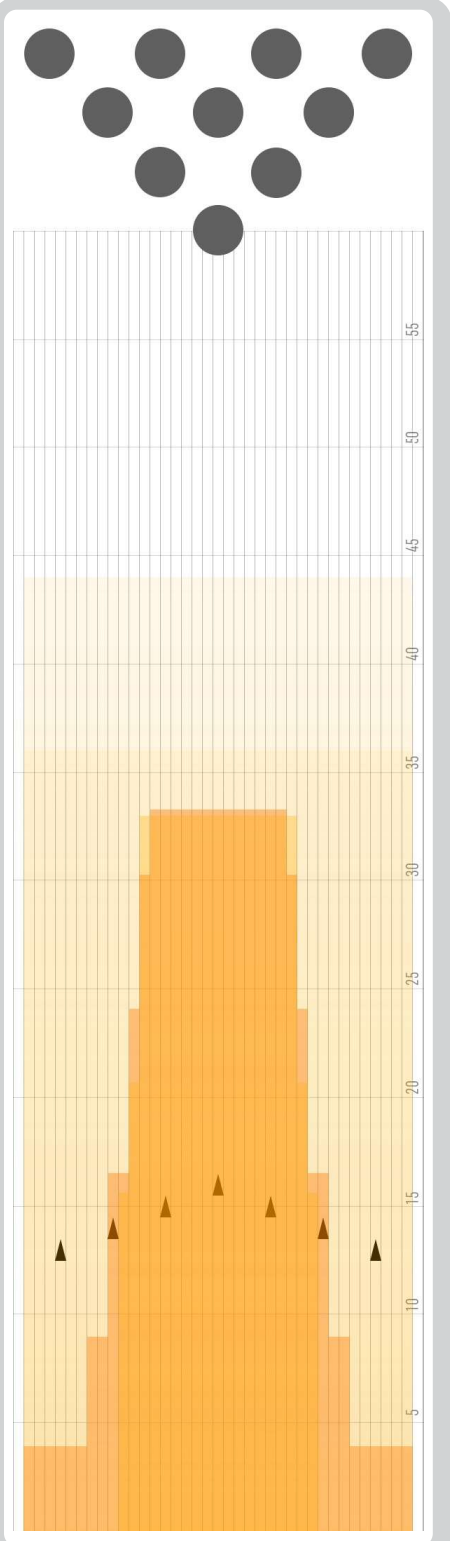




LITHIUM



DISTANCE:	44 FEET	VOLUME:	24.685 mL
RATIO:	9.15	FORWARD:	16.38 mL
DROP BRUSH:	36 FEET	REVERSE:	8.305 mL
TANKS:	TERRAIN & CURRENT	PUMP:	MULTI



FORWARD LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	3	45	14	4	A-Terrain	0 → 4	4,995
2	8L	8R	2	55	18	4	A-Terrain	4 → 9	2,750
3	10L	10R	3	55	18	3	A-Terrain	9 → 17	3,465
4	12L	12R	3	55	18	3	A-Terrain	17 → 24	2,805
5	13L	13R	2	55	22	3	A-Terrain	24 → 30	1,650
6	14L	14R	1	55	22	3	A-Terrain	30 → 33	715
7	2L	2R	0	55	30	3	A-Terrain	33 → 44	0

REVERSE LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	0	55	26	3	B-Current	36 → 33	0
2	13L	13R	4	55	22	3	B-Current	33 → 21	3,300
3	12L	12R	2	55	18	3	B-Current	21 → 16	1,870
4	11L	11R	3	55	18	3	B-Current	16 → 8	3,135
5	2L	2R	0	55	14	4	B-Current	8 → 0	0



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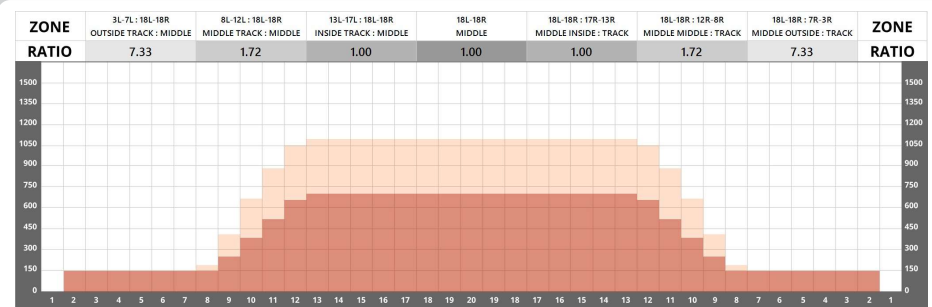




BIG BEN



DISTANCE:	44 FEET	VOLUME:	24.7 mL
RATIO:	7.33	FORWARD:	16.22 mL
DROP BRUSH:	39 FEET	REVERSE:	8.48 mL
TANKS:	FIRE	PUMP:	MULTI

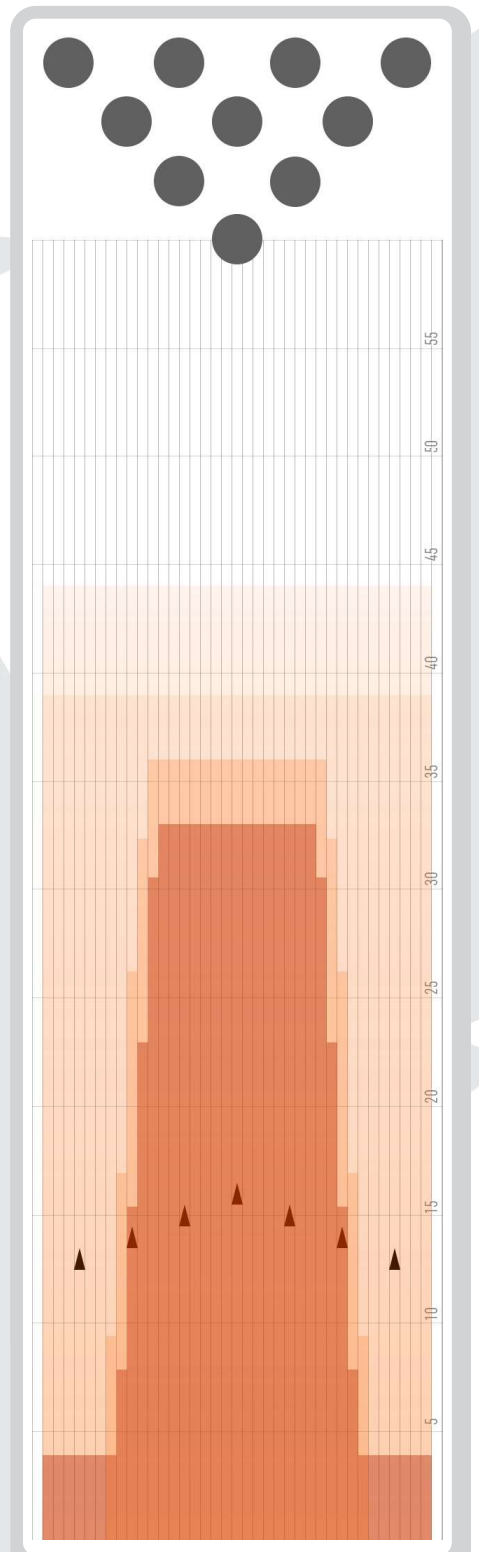


FORWARD LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	3	50	14	3	A - FIRE	0 → 4	5,550
2	9L	9R	2	50	14	3	A - FIRE	4 → 8	2,300
3	10L	10R	3	45	18	3	A - FIRE	8 → 15	2,835
4	11L	11R	3	45	18	3	A - FIRE	15 → 23	2,565
5	12L	12R	3	45	18	3	A - FIRE	23 → 31	2,295
6	13L	13R	1	45	18	3	A - FIRE	31 → 33	675
7	2L	2R	0	45	22	3	A - FIRE	33 → 39	0
8	2L	2R	0	45	26	2	A - FIRE	39 → 44	0

REVERSE LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	0	40	30	1	A - FIRE	39 → 36	0
2	12L	12R	1	40	26	3	A - FIRE	36 → 32	680
3	11L	11R	2	40	22	3	A - FIRE	32 → 26	1,520
4	10L	10R	3	40	22	3	A - FIRE	26 → 17	2,520
5	9L	9R	3	40	18	4	A - FIRE	17 → 9	2,760
6	8L	8R	1	40	14	4	A - FIRE	9 → 7	1,000
7	2L	2R	0	40	14	4	A - FIRE	7 → 0	0



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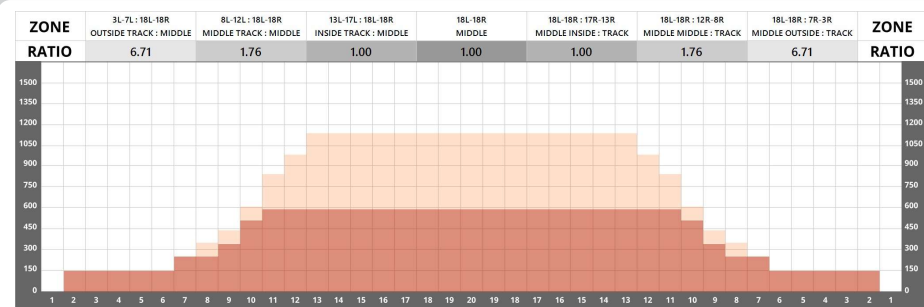




CHROMIUM



DISTANCE:	42 FEET	VOLUME:	25.56 mL
RATIO:	6.71	FORWARD:	15.41 mL
DROP BRUSH:	39 FEET	REVERSE:	10.15 mL
TANKS:	TERRAIN & CURRENT	PUMP:	MULTI

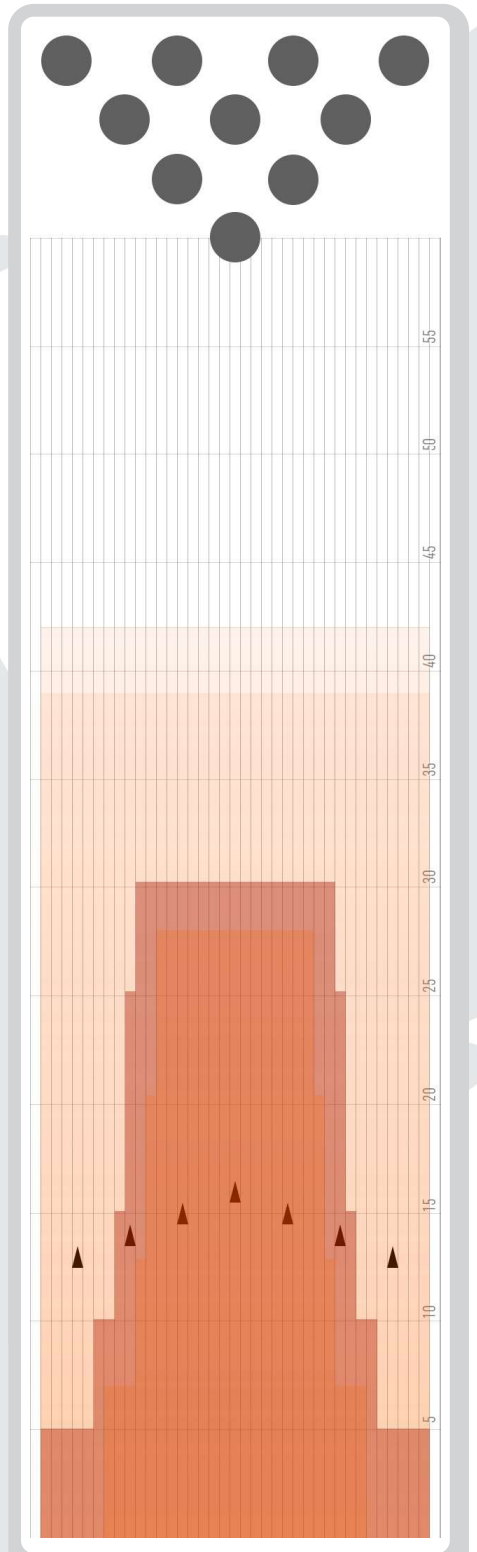


FORWARD LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	3	50	18	3	A - Terrain	0 → 5	5,550
2	7L	7R	2	50	18	3	A - Terrain	5 → 10	2,700
3	9L	9R	2	45	18	3	A - Terrain	10 → 15	2,070
4	10L	10R	2	45	18	3	A - Terrain	15 → 20	1,890
5	10L	10R	2	40	18	3	A - Terrain	20 → 25	1,680
6	11L	11R	2	40	18	3	A - Terrain	25 → 30	1,520
7	2L	2R	0	40	22	3	A - Terrain	30 → 35	0
8	2L	2R	0	40	26	3	A - Terrain	35 → 42	0

REVERSE LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	0	50	22	3	B - Current	39 → 28	0
2	13L	13R	3	50	18	3	B - Current	28 → 20	2,250
3	12L	12R	3	50	18	3	B - Current	20 → 13	2,550
4	11L	11R	3	50	14	3	B - Current	13 → 7	2,850
5	8L	8R	2	50	14	3	B - Current	7 → 3	2,500
6	2L	2R	0	50	14	3	B - Current	3 → 0	0



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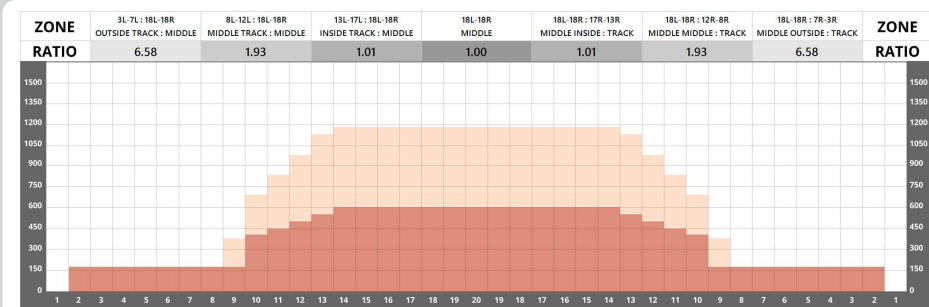




GATEWAY ARCH



DISTANCE:	42 FEET	VOLUME:	25.985 mL
RATIO:	6.58	FORWARD:	14.585 mL
DROP BRUSH:	38 FEET	REVERSE:	11.4 mL
TANKS:	ICE	PUMP:	MULTI

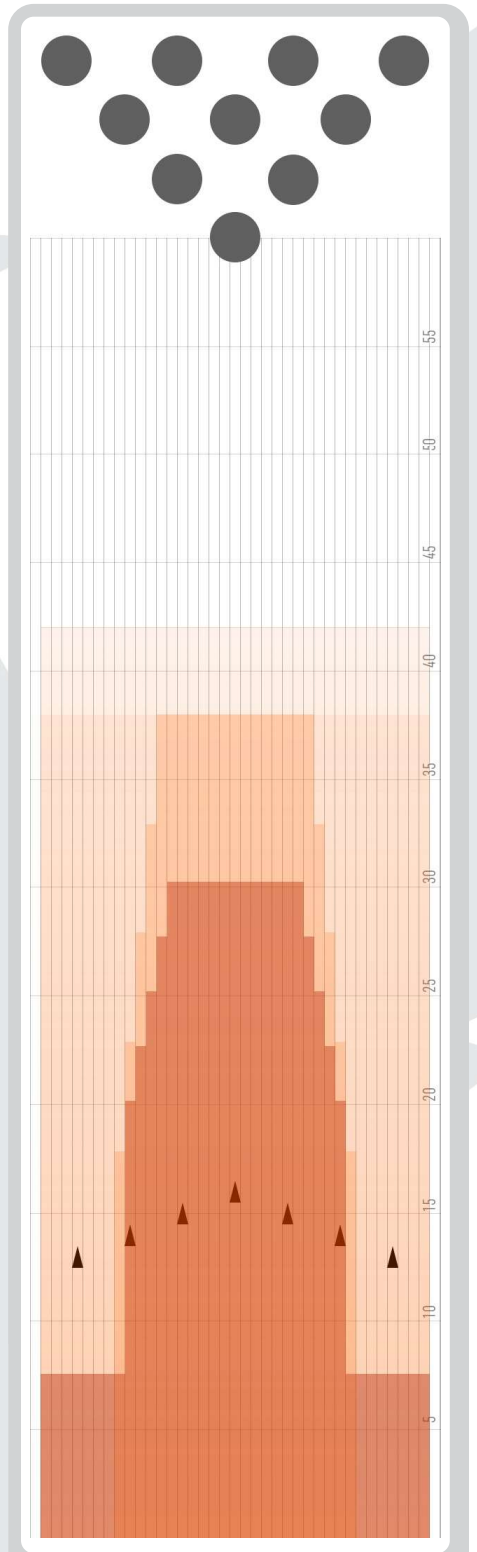


FORWARD LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	4	45	18	4	B - ICE	0 → 8	6,660
2	10L	10R	5	45	18	3	B - ICE	8 → 20	4,725
3	11L	11R	1	50	18	3	B - ICE	20 → 23	950
4	12L	12R	1	50	18	3	B - ICE	23 → 25	850
5	13L	13R	1	50	18	3	B - ICE	25 → 28	750
6	14L	14R	1	50	18	3	B - ICE	28 → 30	650
7	2L	2R	0	50	22	3	B - ICE	30 → 37	0
8	2L	2R	0	50	26	2	B - ICE	37 → 42	0

REVERSE LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	13L	13R	2	50	18	3	B - ICE	38 → 33	1,500
2	12L	12R	2	50	18	3	B - ICE	33 → 28	1,700
3	11L	11R	2	45	18	3	B - ICE	28 → 23	1,710
4	10L	10R	2	45	18	3	B - ICE	23 → 18	1,890
5	9L	9R	5	40	14	3	B - ICE	18 → 8	4,600
6	2L	2R	0	40	14	3	B - ICE	8 → 0	0



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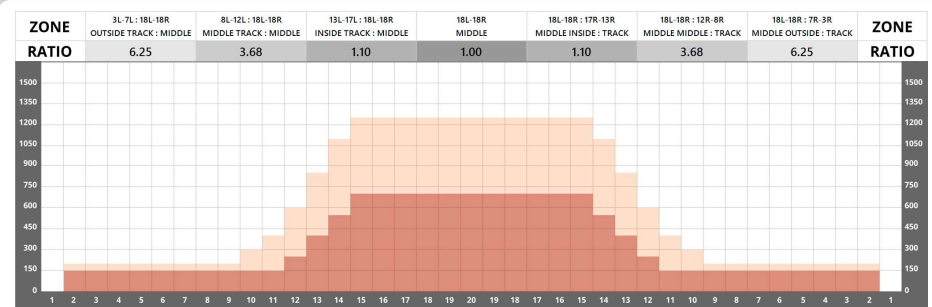




ROUTE 66 V2



DISTANCE:	45 FEET	VOLUME:	23.45 mL
RATIO:	6.25	FORWARD:	13.1 mL
DROP BRUSH:	40 FEET	REVERSE:	10.35 mL
TANKS:	KEGEL	PUMP:	50µL

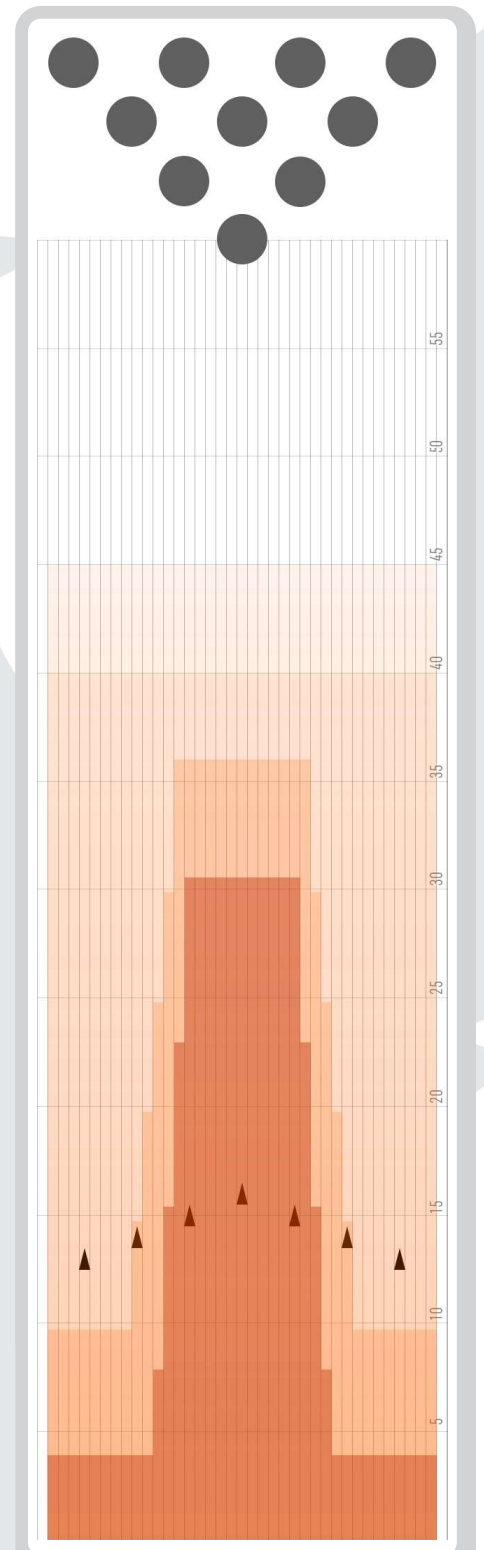


FORWARD LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	3	50	14	3	A - Kegel	0 → 4	5,550
2	12L	12R	2	50	14	3	A - Kegel	4 → 8	1,700
3	13L	13R	3	50	18	3	A - Kegel	8 → 15	2,250
4	14L	14R	3	50	18	3	A - Kegel	15 → 23	1,950
5	15L	15R	3	50	18	3	A - Kegel	23 → 31	1,650
6	2L	2R	0	50	26	3	A - Kegel	31 → 36	0
7	2L	2R	0	50	30	3	A - Kegel	36 → 45	0

REVERSE LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	0	50	30	3	A - Kegel	40 → 36	0
2	14L	14R	2	50	22	3	A - Kegel	36 → 30	1,300
3	13L	13R	2	50	18	3	A - Kegel	30 → 25	1,500
4	12L	12R	2	50	18	3	A - Kegel	25 → 20	1,700
5	11L	11R	2	50	18	3	A - Kegel	20 → 15	1,900
6	10L	10R	2	50	18	3	A - Kegel	15 → 10	2,100
7	2L	2R	1	50	18	3	A - Kegel	10 → 7	1,850
8	2L	2R	0	50	14	3	A - Kegel	7 → 0	0



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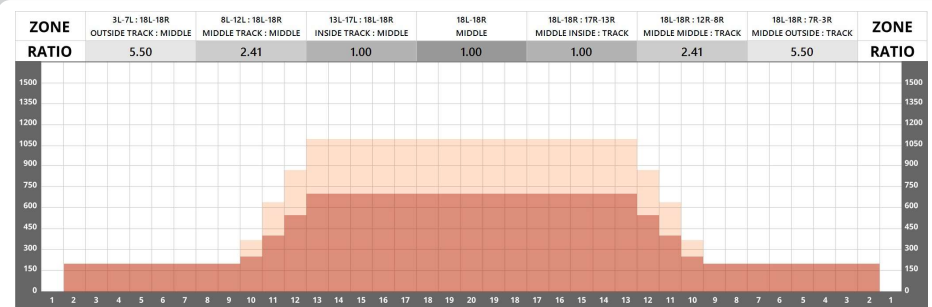




GREAT WALL OF CHINA



DISTANCE:	48 FEET	VOLUME:	23.46 mL
RATIO:	5.5	FORWARD:	16.1 mL
DROP BRUSH:	43 FEET	REVERSE:	7.36 mL
TANKS:	FIRE & ICE	PUMP:	MULTI

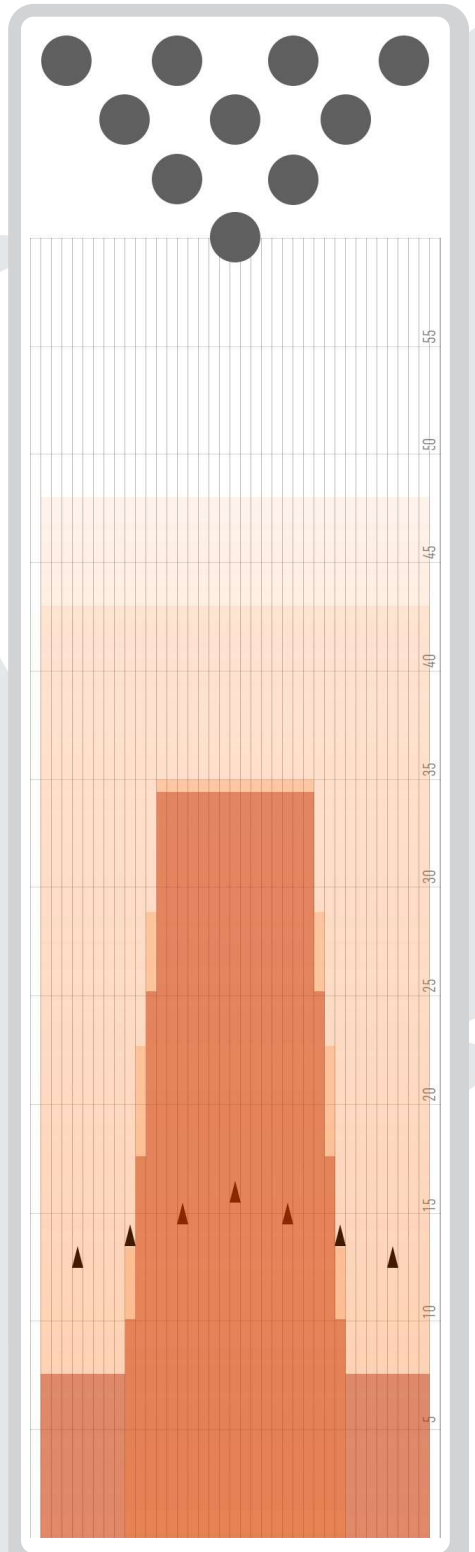


FORWARD LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	4	50	18	3	A - FIRE	0 → 8	7,400
2	10L	10R	1	50	18	3	A - FIRE	8 → 10	1,050
3	11L	11R	3	50	18	3	A - FIRE	10 → 18	2,850
4	12L	12R	3	50	18	3	A - FIRE	18 → 25	2,550
5	13L	13R	3	50	22	3	A - FIRE	25 → 34	2,250
6	2L	2R	0	50	22	3	A - FIRE	34 → 42	0
7	2L	2R	0	50	26	2	A - FIRE	42 → 48	0

REVERSE LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	0	40	30	1	B - ICE	43 → 39	0
2	2L	2R	0	40	26	2	B - ICE	39 → 35	0
3	13L	13R	2	40	22	3	B - ICE	35 → 29	1,200
4	12L	12R	2	40	22	3	B - ICE	29 → 23	1,360
5	11L	11R	3	40	22	3	B - ICE	23 → 13	2,280
6	10L	10R	2	40	18	4	B - ICE	13 → 8	1,680
7	10L	10R	1	40	14	4	B - ICE	8 → 6	840
8	2L	2R	0	40	14	4	B - ICE	6 → 0	0



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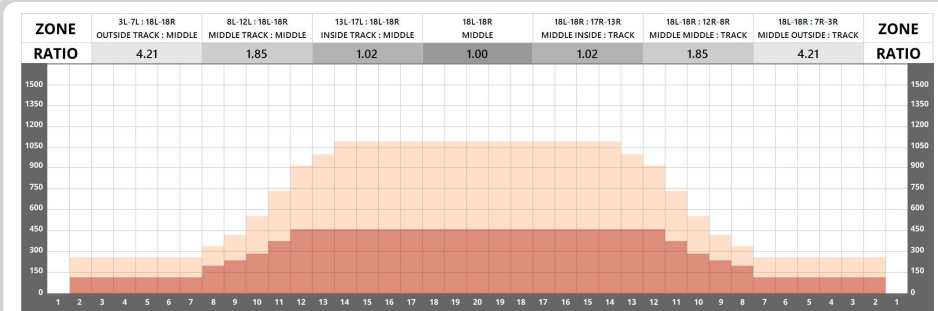
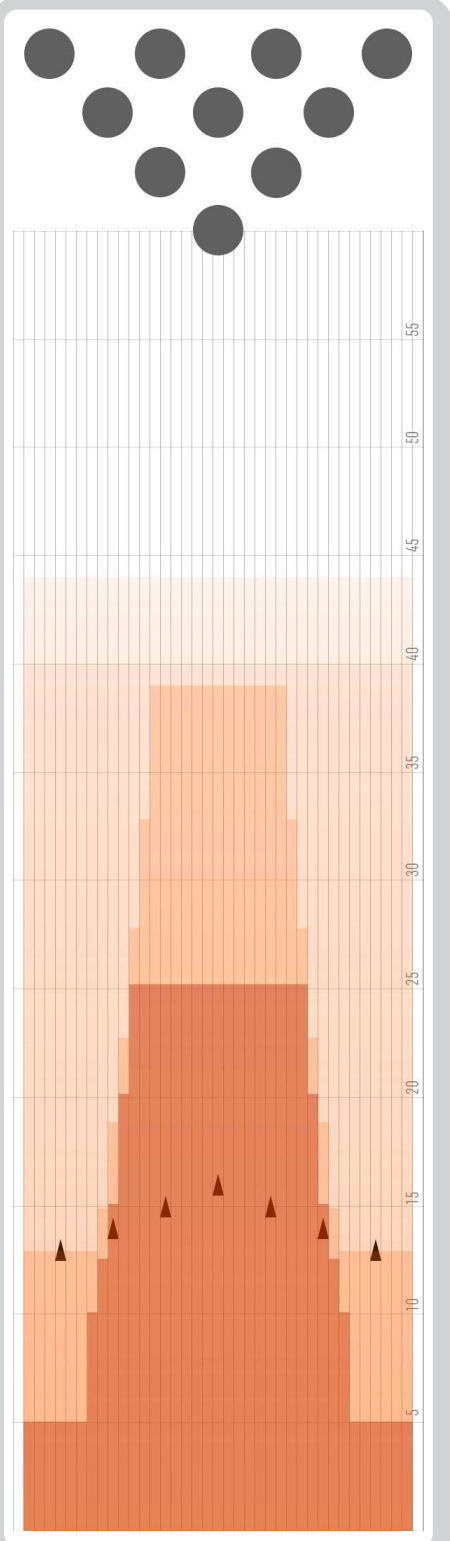




TITANIUM



DISTANCE:	44 FEET	VOLUME:	25.295 mL
RATIO:	4.21	FORWARD:	11.545 mL
DROP BRUSH:	40 FEET	REVERSE:	13.75 mL
TANKS:	TERRAIN & ICE	PUMP:	MULTI



FORWARD LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	3	40	18	4	A-Terrain	0 → 5	4,440
2	8L	8R	2	40	18	3	A-Terrain	5 → 10	2,000
3	9L	9R	1	40	18	3	A-Terrain	10 → 13	920
4	10L	10R	1	45	18	3	A-Terrain	13 → 15	945
5	11L	11R	2	45	18	3	A-Terrain	15 → 20	1,710
6	12L	12R	2	45	18	3	A-Terrain	20 → 25	1,530
7	2L	2R	0	45	18	3	A-Terrain	25 → 38	0
8	2L	2R	0	45	22	2	A-Terrain	38 → 44	0

REVERSE LOADS DATA

#	START	STOP	LOADS	MICS	SPEED	BUFF	TANK	DISTANCE	T.OIL
1	2L	2R	0	45	26	3	B-Ice	40 → 39	0
2	14L	14R	2	45	22	3	B-Ice	39 → 33	1,170
3	13L	13R	2	45	18	3	B-Ice	33 → 28	1,350
4	12L	12R	2	45	18	3	B-Ice	28 → 23	1,530
5	11L	11R	2	45	14	3	B-Ice	23 → 19	1,710
6	10L	10R	2	45	14	3	B-Ice	19 → 15	1,890
7	9L	9R	1	40	14	4	B-Ice	15 → 13	920
8	2L	2R	4	35	14	4	A-Terrain	13 → 5	5,180
9	2L	2R	0	35	14	4	A-Terrain	5 → 0	0



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