



Pattern Information

Date	06/30/2025
Pattern Type	SPORT
Pattern Difficulty	HIGH
Pattern Volume (ml)	27.80

Pattern Parameters

Split Pattern	No
Pattern Name	25SATSHINB41
Start Cleaner Spray	0
Start Squeegee	0
Start Oiling	6

Supplies Information

Lane Cleaner	
Cleaner Mixture Ratio	4 : 1
Cleaner Spray End Distance	50
Lane Conditioner	

Surface Information

Surface Type	
Surface Brand	
Age	

SPORT	<4 : 1	USBC Ratio Definitions
CHALLENGE	4-8 : 1	
RECREATIONAL	>8 : 1	

Notes

SAITO SHINOBU 2025 V2 41FT

Ratios by Volume

(18-18:3-7)

L 3.19 :1

R 3.19 :1

(18-18:12-8)

L 1.64 :1

R 1.53 :1

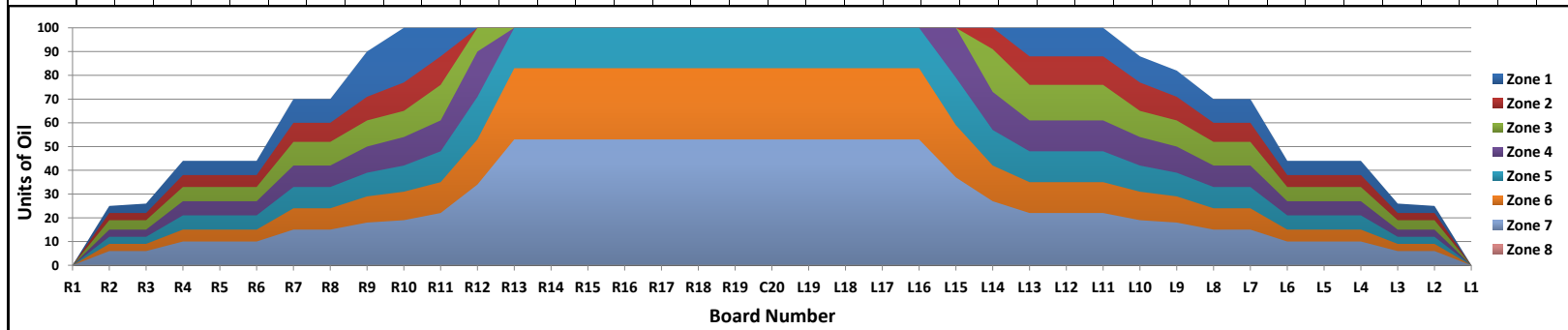
(18-18:13-17)

L 1.14 :1

R 1.00 :1

Zone	1	2	3	4	5	6	7	8
Zone End Distance	6	10	13	18	22	26	30	41
Zone Ratio	L 2.1 : 1 R 2.1 : 1	L 2.5 : 1 R 2.5 : 1	L 2.9 : 1 R 2.9 : 1	L 3.6 : 1 R 3.6 : 1	L 4.6 : 1 R 4.6 : 1	L 5.3 : 1 R 5.3 : 1	L 5.1 : 1 R 5.1 : 1	L : R :
Zone Volume (ml)	7.31	4.53	3.18	4.83	3.47	2.74	1.74	0.00

ZONE	7 Pin Side														Board Number														10 Pin Side															
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	C20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1					
1	0	25	26	44	44	44	70	70	82	88	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	90	70	70	44	44	44	26	25	0						
2	0	22	22	38	38	38	60	60	71	77	88	88	88	100	100	100	100	100	100	100	100	100	100	100	100	100	100	88	77	71	60	60	38	38	38	22	22	0						
3	0	19	19	33	33	33	52	52	61	65	76	76	76	91	100	100	100	100	100	100	100	100	100	100	100	100	100	76	65	61	52	52	33	33	33	19	19	0						
4	0	15	15	27	27	27	42	42	50	54	61	61	61	73	100	100	100	100	100	100	100	100	100	100	100	100	90	61	54	50	42	42	27	27	27	15	15	0						
5	0	12	12	21	21	21	33	33	39	42	48	48	48	57	79	100	100	100	100	100	100	100	100	100	100	100	71	48	42	39	33	33	21	21	21	12	12	0						
6	0	9	9	15	15	15	24	24	29	31	35	35	35	42	59	83	83	83	83	83	83	83	83	83	83	83	53	35	31	29	24	24	15	15	15	9	9	0						
7	0	6	6	10	10	10	15	15	18	19	22	22	22	27	37	53	53	53	53	53	53	53	53	53	53	53	34	22	19	18	15	15	10	10	10	6	6	0						
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						





25SATSHINB41

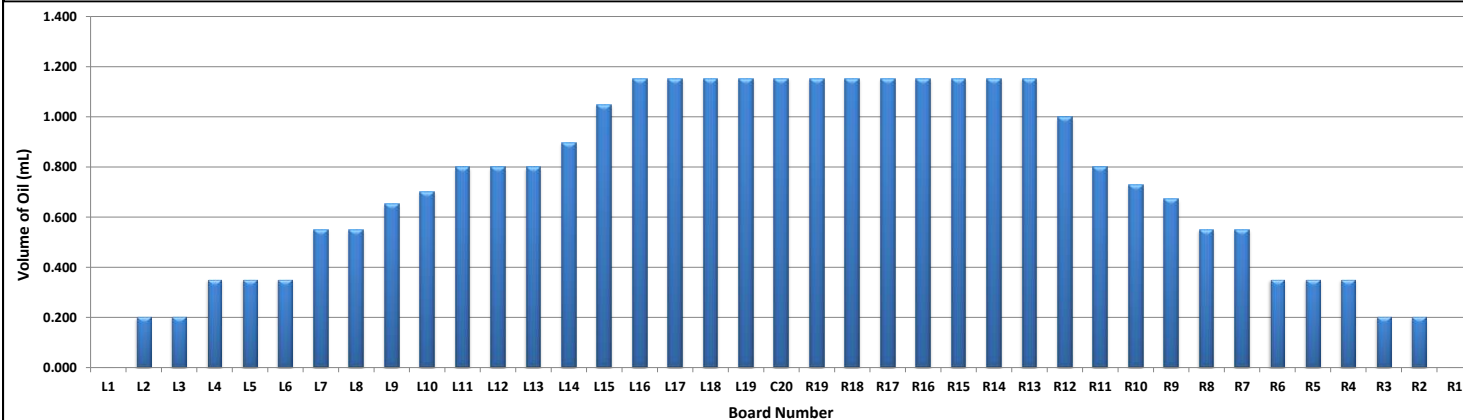
Crosswise Ratios (by units)

Zone 1			
Average	Ratio		
3L-7L Left =	45.6	2.1	
3R-7R Right=	45.6	2.1	
18L-18R Center =	100.0		
Zone 2			
Average	Ratio		
3L-7L Left =	39.2	2.5	
3R-7R Right=	39.2	2.5	
18L-18R Center=	100.0		
Zone 3			
Average	Ratio		
3L-7L Left =	34.0	2.9	
3R-7R Right=	34.0	2.9	
18L-18R Center=	100.0		
Zone 4			
Average	Ratio		
3L-7L Left =	27.6	3.6	
3R-7R Right=	27.6	3.6	
18L-18R Center =	100.0		

Crosswise Ratios (by ml)

Zone 1			
Average	Ratio		
3L-7L Left =	0.115	2.1	
3R-7R Right=	0.115	2.1	
18L-18R Center =	0.251		
Zone 2			
Average	Ratio		
3L-7L Left =	0.066	2.5	
3R-7R Right=	0.066	2.5	
18L-18R Center=	0.168		
Zone 3			
Average	Ratio		
3L-7L Left =	0.043	2.9	
3R-7R Right=	0.043	2.9	
18L-18R Center=	0.126		
Zone 4			
Average	Ratio		
3L-7L Left =	0.058	3.6	
3R-7R Right=	0.058	3.6	
18L-18R Center =	0.210		

The above crosswise ratios are calculated by the average units of oil for boards 18L - 18R and divided by the average units of oil for board 3 - 7 left and right.



3L-7L:18L-18R	8L-12L:18L-18R	13L-17L:18L-18R	18L-18R:17R-13R	18L-18R:12R-8R	18L-18R:7R-3R
Outside Track: Middle	Middle Track: Middle	Inside Track: Middle	Middle: Inside Track	Middle: Middle Track	Middle: Outside Track
3.19	1.64	1.14	1.00	1.53	3.19



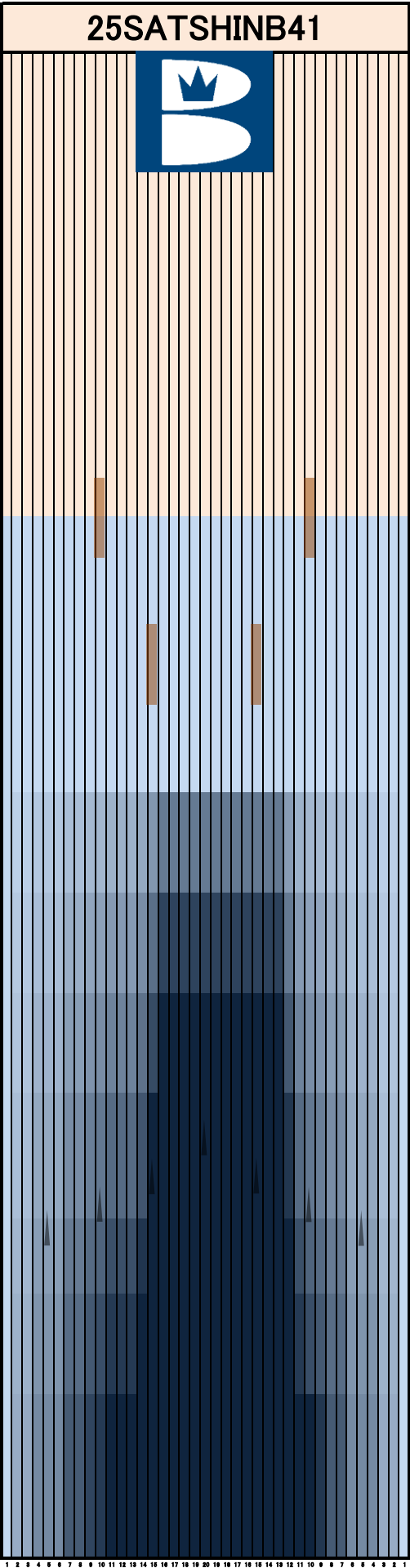
Lengthwise Ratio By Area			
	3L-7L	18L-18R	3R-7R
	Left	Center	Right
Zone 2	1.1	1.0	1.1
Zone 3	1.3	1.0	1.3
Zone 4	1.6	1.0	1.6
Zone 5	2.1	1.0	2.1
Zone 6	2.9	1.2	2.9
Zone 7	4.4	1.8	4.4
Zone 8			

25SATSHINB41

Lengthwise Ratio By Board (units & ml)

	7 Pin Side																																Board Number										10 Pin Side									
Zone	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	C20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1													
2		1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.1														
3		1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.3	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.4	1.3														
4		1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.6	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.7	1.7														
5		2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.8	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	2.1	2.4	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1														
6		2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.9	2.9	2.9	2.4	1.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	2.9	3.2	3.1	2.9	2.9	2.9	2.9	2.9	2.9	2.8														
7		4.2	4.3	4.4	4.4	4.4	4.7	4.7	4.6	4.6	4.5	4.5	4.5	3.7	2.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	4.5	5.3	5.0	4.7	4.7	4.4	4.4	4.4	4.3	4.2														
8																																																				

The lengthwise ratios are calculated from the volumes in the first zone.





Pattern Information

Date	06/30/2025
Pattern Type	SPORT
Pattern Difficulty	HIGH
Pattern Volume (ml)	31.50

Pattern Parameters

Split Pattern	No
Pattern Name	TNGCHTKSV242
Start Cleaner Spray	0
Start Squeegee	0
Start Oiling	6

Supplies Information

Lane Cleaner	
Cleaner Mixture Ratio	4 : 1
Cleaner Spray End Distance	50
Lane Conditioner	

Surface Information

Surface Type	
Surface Brand	
Age	

SPORT	<4 : 1	USBC Ratio Definitions
CHALLENGE	4-8 : 1	
RECREATIONAL	>8 : 1	

Notes

Taniguchi Takeshi 2025 V2 42ft

Ratios by Volume

(18-18:3-7)

L 2.78 :1

R 2.72 :1

(18-18:12-8)

L 1.76 :1

R 1.32 :1

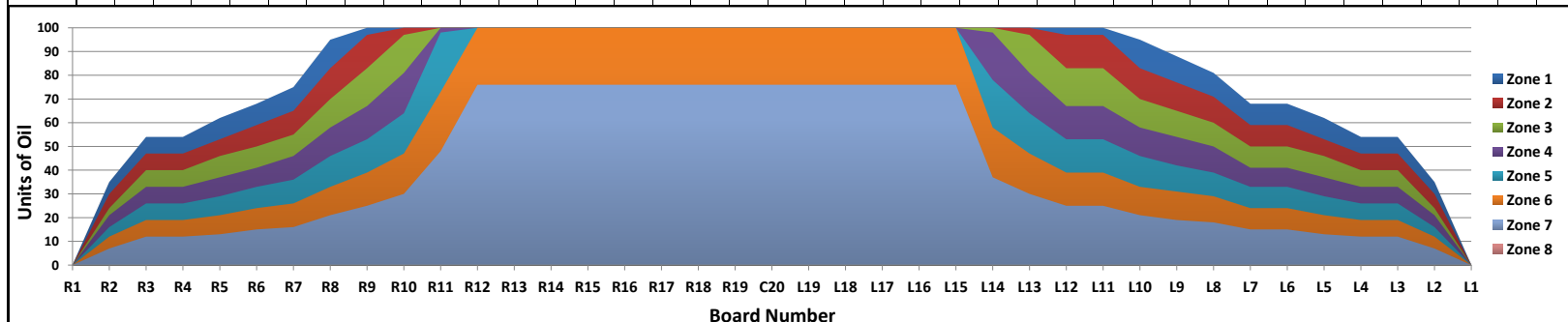
(18-18:13-17)

L 1.11 :1

R 1.00 :1

Zone	1	2	3	4	5	6	7	8
Zone End Distance	4	8	11	16	19	23	32	42
Zone Ratio	L 1.6 : 1 R 1.5 : 1	1.8 : 1 1.8 : 1	2.2 : 1 2.1 : 1	2.7 : 1 2.6 : 1	3.4 : 1 3.3 : 1	4.6 : 1 4.5 : 1	5.6 : 1 5.5 : 1	: :
Zone Volume (ml)	5.28	5.03	3.54	5.44	2.97	3.53	5.70	0.00

ZONE	7 Pin Side										Board Number										10 Pin Side																	
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	C20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R9	R8	R7	R6	R5	R4	R3	R2
1	0	35	54	54	62	68	68	81	88	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	95	75	68	62	54	54	35	0
2	0	30	47	47	53	59	59	71	77	83	97	97	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	97	83	65	59	53	47	47	30	0
3	0	24	40	40	46	50	50	60	65	70	83	83	97	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	97	83	70	55	50	46	40	40	24	0
4	0	21	33	33	37	41	41	50	54	58	67	67	81	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	81	67	58	46	41	37	33	33	21	0
5	0	16	26	26	29	33	33	39	42	46	53	53	64	78	100	100	100	100	100	100	100	100	100	100	100	100	100	98	64	53	46	36	33	29	26	26	16	0
6	0	12	19	19	21	24	24	29	31	33	39	39	47	58	100	100	100	100	100	100	100	100	100	100	100	100	100	73	47	39	33	26	24	21	19	19	12	0
7	0	7	12	12	13	15	15	18	19	21	25	25	30	37	76	76	76	76	76	76	76	76	76	76	76	76	76	48	30	25	21	16	15	13	12	12	7	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





DIRECT+
Conditioning System



TNGCHTKSV242

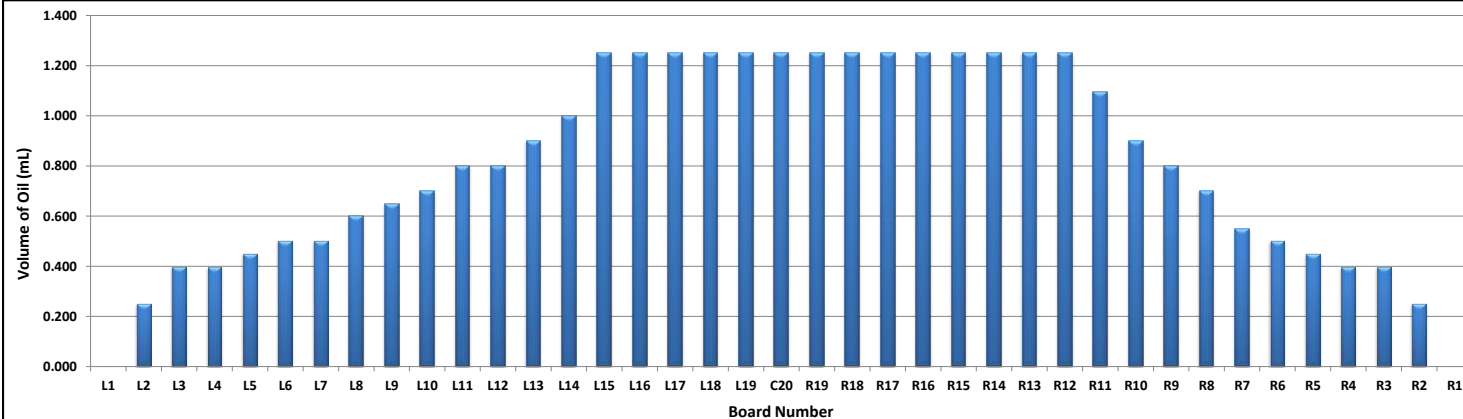
Crosswise Ratios (by units)

Zone 1			
Average	Ratio		
3L-7L Left =	61.2	1.6	
3R-7R Right=	62.6	1.5	
18L-18R Center =	100.0		
Zone 2			
Average	Ratio		
3L-7L Left =	53.0	1.8	
3R-7R Right=	54.2	1.8	
18L-18R Center=	100.0		
Zone 3			
Average	Ratio		
3L-7L Left =	45.2	2.2	
3R-7R Right=	46.2	2.1	
18L-18R Center=	100.0		
Zone 4			
Average	Ratio		
3L-7L Left =	37.0	2.7	
3R-7R Right=	38.0	2.6	
18L-18R Center =	100.0		

Crosswise Ratios (by ml)

Zone 1			
Average	Ratio		
3L-7L Left =	0.103	1.6	
3R-7R Right=	0.105	1.5	
18L-18R Center =	0.168		
Zone 2			
Average	Ratio		
3L-7L Left =	0.089	1.8	
3R-7R Right=	0.091	1.8	
18L-18R Center=	0.168		
Zone 3			
Average	Ratio		
3L-7L Left =	0.057	2.2	
3R-7R Right=	0.058	2.1	
18L-18R Center=	0.126		
Zone 4			
Average	Ratio		
3L-7L Left =	0.078	2.7	
3R-7R Right=	0.080	2.6	
18L-18R Center =	0.210		

The above crosswise ratios are calculated by the average units of oil for boards 18L - 18R and divided by the average units of oil for board 3 - 7 left and right.



3L-7L:18L-18R	8L-12L:18L-18R	13L-17L:18L-18R	18L-18R:17R-13R	18L-18R:12R-8R	18L-18R:7R-3R
Outside Track: Middle	Middle Track: Middle	Inside Track: Middle	Middle: Inside Track	Middle: Middle Track	Middle: Outside Track
2.78	1.76	1.11	1.00	1.32	2.72



Lengthwise Ratio By Area			
	3L-7L	18L-18R	3R-7R
	Left	Center	Right
Zone 2	1.1	1.0	1.1
Zone 3	1.3	1.0	1.3
Zone 4	1.6	1.0	1.6
Zone 5	2.0	1.0	2.0
Zone 6	2.8	1.0	2.8
Zone 7	4.5	1.3	4.6
Zone 8			

TNGCHTKSV242

Lengthwise Ratio By Board (units & ml)

	7 Pin Side																																Board Number										10 Pin Side									
Zone	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	C20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1													
2		1.2	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.1	1.1	1.2														
3		1.5	1.4	1.4	1.3	1.4	1.4	1.4	1.4	1.4	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.4	1.4	1.4	1.3	1.4	1.4	1.5														
4		1.7	1.6	1.6	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.5	1.6	1.6	1.7	1.7	1.6	1.6	1.7														
5		2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.9	1.6	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.6	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.2														
6		2.9	2.8	2.8	3.0	2.8	2.8	2.8	2.8	2.9	2.6	2.6	2.1	1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	2.1	2.6	2.9	2.9	2.8	3.0	2.8	2.8	2.9														
7		5.0	4.5	4.5	4.8	4.5	4.5	4.5	4.6	4.5	4.0	4.0	3.3	2.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.1	3.3	4.0	4.5	4.7	4.5	4.8	4.5	4.5	5.0														
8																																																				

The lengthwise ratios are calculated from the volumes in the first zone.

