

**Styles:**

T151 T160



**Lamp** 250W frosted T-4 tungsten halogen rated 4850 lumens

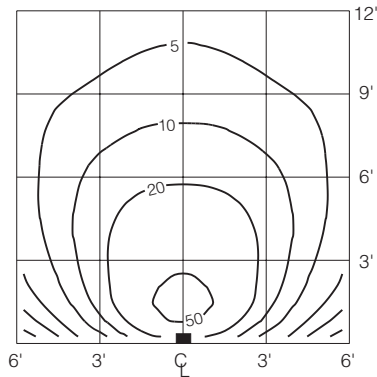
**Reflector** Small cross-section, nominal 11" long, **standard micro-prismatic glass lens**  
Reflector aiming is adjustable

**Multipliers for Other Lamps:**

100W (Q100DC, 1550 lumens)	0.32
150W (Q150DC, 2700 lumens)	0.56
200W (Q200T3, 3350 lumens)	0.69

**Isofootcandle Diagram**

Distance from surface 3'-0"



	2' from wall						2'-6" from wall																		
	4' o.c.			5' o.c.			5' o.c.			6' o.c.															
9'	15	15	15	15	15	15	12	12	12	12	12	15	15	14	14	15	15	13	12	12	11	12	12	13	
8'	19	19	19	19	19	19	16	15	15	15	15	16	19	19	18	18	19	19	16	16	15	15	15	16	16
7'	25	24	24	24	25	25	20	20	19	19	20	20	24	24	23	23	24	24	20	20	20	19	20	20	20
6'	32	32	31	32	32	32	25	25	25	25	25	25	29	30	30	30	30	29	24	24	25	25	25	25	24
5'	40	42	42	42	40	40	33	33	34	34	33	33	37	38	39	39	38	37	32	32	31	31	31	32	32
4'	57	58	58	58	57	57	49	47	44	44	47	49	53	51	48	48	51	53	48	45	39	35	39	45	48
3'	84	79	72	79	84	84	76	67	51	52	67	76	68	64	54	54	64	68	65	58	43	37	43	58	65
2'	108	93	73	93	108	108	103	83	49	49	83	103	82	71	51	51	71	82	79	67	41	30	41	67	79
1'	143	96	53	96	143	143	140	91	33	33	91	140	99	75	39	39	75	99	97	72	33	20	33	72	97

52	9.9:1	2.7:1	43	12:1	3.3:1	42	7.1:1	2.4:1	35	8.5:1	2.8:1
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	2'-6" from wall						3' from wall																		
	5' o.c.			6' o.c.			8' o.c.																		
12'	8	8	8	8	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	
11'	10	10	10	10	10	10	10	10	10	10	10	8	8	7	7	7	7	7	8	8	8	8	8	8	8
10'	12	12	12	12	12	12	12	12	12	12	12	9	9	9	9	9	9	9	9	9	9	9	9	9	9
9'	15	15	14	14	15	15	14	14	14	14	14	11	11	11	11	11	11	11	11	11	11	11	11	11	11
8'	18	18	18	18	18	18	17	17	17	17	17	13	13	13	13	13	13	13	13	13	13	13	13	13	13
7'	22	22	22	22	22	22	20	21	21	21	21	20	15	16	16	16	16	16	16	16	16	16	16	15	15
6'	27	28	28	28	28	27	25	25	26	26	26	25	20	20	19	18	18	18	19	20	20	20	20	20	20
5'	36	36	36	36	36	36	34	33	32	31	32	34	29	28	24	21	19	21	24	28	29	29	29	29	29
4'	49	47	44	44	47	49	42	41	37	35	37	41	38	36	29	22	20	22	29	36	38	38	38	38	38
3'	60	57	49	49	57	60	49	46	39	34	39	46	46	42	31	21	18	21	31	42	46	46	46	46	46
2'	76	66	47	47	66	76	59	53	39	30	39	53	59	57	50	33	18	14	18	33	50	57	57	57	57
1'	89	65	33	34	65	89	64	50	29	20	29	51	64	63	49	25	11	8	11	26	49	63	63	63	63

31	11:1	2.8:1	26	8.0:1	2.4:1	20	11:1	3.1:1
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Charts illustrate the center section of a surface lighted by 6 or more luminaires. Values based on vertical and horizontal surface reflective factors of 0.30/0.10

25	5.0:1	2.5:1
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Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAl)

Height	3' from surface				4' from surface															
	6' o.c.		8' o.c.		8' o.c.		10' o.c.													
	16'	14'	12'	10'	14'	13'	11'	11'												
16'	14	13	13	14	10	10	10	10	14	13	13	13	14	11	11	11	11	11	11	
14'	18	17	17	18	13	13	13	13	17	17	16	17	17	13	14	14	14	14	13	
12'	22	22	22	22	16	17	17	17	16	20	21	21	21	20	17	17	17	17	17	17
10'	27	27	27	27	20	21	21	21	20	23	24	25	24	23	19	19	19	19	19	19
8'	31	33	33	31	25	24	24	24	25	26	26	26	26	26	23	22	19	19	22	23
6'	43	42	42	43	36	32	26	32	36	37	35	31	35	37	34	30	22	22	30	34
4'	76	61	61	76	70	50	29	50	70	59	48	34	48	59	57	43	23	23	44	57
2'	146	75	75	146	142	65	23	65	142	93	59	29	59	93	91	56	19	19	56	91
	42   11:1   3.5:1				32   14:1   4.4:1				31   7.2:1   2.9:1				26   8.6:1   3.5:1							

Height	4' from surface				5' from surface																			
	8' o.c.		10' o.c.		10' o.c.		12' o.c.																	
	20'	18'	16'	14'	12'	10'	8'	6'																
20'	9	8	8	9	9	7	7	7	7	7	7	9	9	8	8	9	9	7	7	7	7	7	7	
18'	11	10	10	10	11	8	8	8	8	8	8	10	10	10	10	10	10	8	9	9	8	9	9	8
16'	13	13	12	13	13	10	10	10	10	10	10	12	12	12	12	12	12	10	10	10	10	10	10	10
14'	15	15	15	15	15	12	12	12	12	12	12	14	14	14	14	14	14	12	12	12	12	12	12	12
12'	17	18	18	18	17	14	14	15	15	14	14	15	15	16	16	15	15	13	13	13	13	13	13	13
10'	19	20	21	20	19	16	16	16	16	16	16	17	17	17	17	17	17	15	15	14	13	14	15	15
8'	24	24	24	24	24	21	20	17	17	20	21	22	21	19	19	21	22	20	19	16	14	16	19	20
6'	36	33	30	33	36	33	29	21	21	29	33	31	28	23	23	28	31	30	26	19	15	19	26	30
4'	57	46	33	46	57	55	42	22	22	42	55	45	37	24	24	37	45	44	35	20	14	20	36	44
2'	89	56	27	56	89	87	53	18	18	53	87	61	43	21	21	44	61	60	42	17	11	17	42	60
	25   11:1   3.5:1				21   13:1   4.2:1				20   7.3:1   3.0:1				17   8.6:1   3.5:1											

Height	5' from surface				6' from surface																				
	10' o.c.		12' o.c.		12' o.c.		16' o.c.																		
	24'	22'	20'	18'	16'	14'	12'	10'																	
24'	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4	4
22'	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	5	5	5	5	5	5	5	5
20'	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6
18'	10	10	9	9	10	10	9	9	9	9	9	9	9	9	9	7	7	7	7	7	7	7	7	7	
16'	11	11	11	11	11	11	10	10	10	10	10	10	10	10	8	8	7	7	8	7	7	8	8		
14'	12	12	12	12	12	12	10	11	11	11	11	11	10	9	9	8	8	8	8	9	9	9			
12'	13	13	14	14	13	13	12	12	12	12	12	12	12	10	10	9	8	7	8	9	10	10			
10'	15	15	15	15	15	15	14	14	13	13	13	14	14	12	12	10	9	8	9	10	12	12			
8'	21	20	19	19	20	21	19	18	16	15	16	18	19	17	16	13	9	8	9	13	16	17			
6'	30	27	22	22	27	30	26	23	19	16	19	23	26	24	21	15	10	8	10	15	22	24			
4'	44	37	24	24	37	44	35	30	20	15	21	30	35	34	29	17	9	7	9	17	29	34			
2'	58	41	20	20	41	58	41	32	17	12	17	32	41	40	31	15	7	5	7	15	31	40			
	17   9.8:1   3.4:1				14   7.2:1   2.9:1				11   9.2:1   3.7:1																

Styles:

T152



T153



Lamp

500W frosted T-3 tungsten halogen rated 10,300 lumens

Reflector

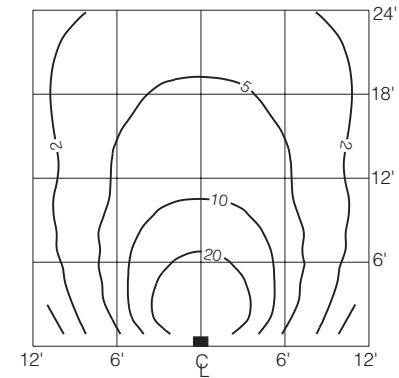
Large cross-section, nominal 17" long (nominal 12" long for Style 152), optional micro-prismatic glass lens Reflector aiming is adjustable

Multipliers for Other Lamps:

300W (Q300T3, 5950 lumens) 0.58  
350W (Q350T3/CL/HIR, 10,000 lumens) 0.97

Isofootcandle Diagram

Distance from surface 6'-0"



Charts illustrate the center section of a surface lighted by 6 or more luminaires. Values based on vertical and horizontal surface reflective factors of 0.30/0.10

25 | 5.0:1 | 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAI)

**Styles:**

T152 T153



**Lamp** 500W frosted T-3 tungsten halogen rated 10,300 lumens

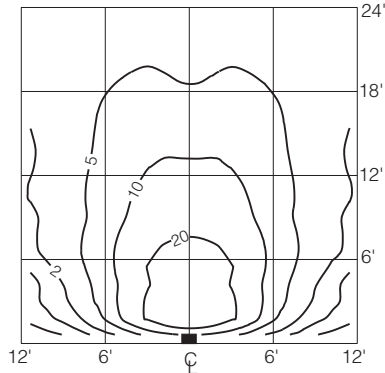
**Reflector** Large cross-section, nominal 17" long (nominal 12" long for Style 152), **standard clear flat glass lens**  
Reflector aiming is adjustable

**Multipliers for Other Lamps:**

300W (Q300T3, 5950 lumens) 0.58  
350W (Q350T3/CL/HIR, 10,000 lumens) 0.97

**Isofootcandle Diagram**

Distance from surface 6'-0"



Charts illustrate the center section of a surface lighted by 6 or more luminaires. Values based on vertical and horizontal surface reflective factors of 0.30/0.10

25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAI)

	3' from surface						4' from surface													
	6' o.c.			8' o.c.			8' o.c.			10' o.c.										
16'	18	18	18	18	13	14	14	14	13	17	18	18	18	17	14	15	15	15	15	14
14'	23	24	24	23	17	18	18	18	17	21	22	23	22	21	16	18	18	18	18	16
12'	27	29	29	27	20	22	23	22	20	23	26	27	26	23	19	20	21	21	20	19
10'	31	34	34	31	23	25	26	25	23	26	29	29	29	26	23	23	22	22	23	23
8'	39	43	43	39	32	32	29	32	32	34	34	33	34	34	30	29	24	24	29	30
6'	53	51	51	53	45	40	30	40	45	44	39	33	40	44	40	34	24	24	35	40
4'	86	69	69	86	79	56	34	56	79	65	52	37	52	65	62	47	25	25	47	62
2'	126	70	70	126	123	61	21	61	123	79	52	30	52	79	77	50	18	18	50	77
		46 7.1:1 2.7:1			36 9.4:1 3.4:1			35 4.6:1 2.3:1			28 5.7:1 2.7:1									

	4' from surface						5' from surface																	
	8' o.c.			10' o.c.			10' o.c.			12' o.c.														
20'	11	12	11	12	11	9	9	9	9	10	9	11	12	11	11	12	11	9	10	10	10	10	10	9
18'	14	14	14	14	14	11	11	11	11	11	11	13	14	14	14	14	13	10	11	12	12	12	11	10
16'	16	16	16	16	16	12	13	13	13	13	12	14	15	16	16	15	14	12	13	13	14	13	13	12
14'	17	18	19	18	17	13	15	15	15	15	13	15	17	18	18	17	15	13	14	15	15	15	14	13
12'	19	21	21	21	19	15	17	17	17	17	15	17	19	19	19	19	17	15	16	15	15	15	16	15
10'	23	26	26	26	23	20	21	19	19	21	20	21	22	21	21	22	21	19	20	17	16	17	20	19
8'	29	30	29	30	29	25	25	21	21	25	25	26	25	22	22	25	26	24	22	18	15	18	22	24
6'	43	39	33	39	43	39	34	24	24	34	39	35	33	26	26	33	35	33	30	21	17	21	30	33
4'	62	50	37	50	62	59	45	25	25	45	59	44	37	25	25	37	44	42	35	20	16	21	35	42
2'	74	48	26	48	74	73	46	15	15	46	73	52	38	19	19	38	52	51	37	16	8	16	37	51
		28 6.5:1 2.7:1			23 8.1:1 3.2:1			22 4.7:1 2.3:1			19 6.3:1 2.7:1													

	5' from surface						6' from surface															
	10' o.c.			12' o.c.			12' o.c.			16' o.c.												
24'	8	8	8	8	8	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6	6
22'	9	9	9	9	9	9	9	9	9	9	9	9	6	7	7	7	7	7	7	7	7	6
20'	10	11	11	11	11	10	10	10	11	11	11	10	10	7	7	8	8	8	8	8	7	7
18'	11	12	13	13	12	11	10	11	12	12	12	11	10	8	8	9	9	9	9	9	8	8
16'	12	13	14	14	13	12	11	12	13	13	13	12	11	9	9	9	9	9	9	9	9	9
14'	14	15	15	15	15	14	12	13	14	13	14	13	12	10	11	10	9	9	9	10	11	10
12'	16	18	18	18	18	16	15	15	15	15	15	15	15	12	13	12	10	9	10	12	13	12
10'	20	20	19	19	20	20	17	17	16	15	16	17	17	15	14	13	10	9	10	13	14	15
8'	25	23	21	21	23	25	22	21	18	16	18	21	22	20	18	14	10	9	10	14	19	20
6'	33	31	24	24	31	33	28	26	20	17	20	26	28	27	24	17	10	9	10	17	24	27
4'	39	33	23	23	33	39	30	25	18	14	18	25	30	29	24	15	8	6	8	15	24	29
2'	52	38	20	20	38	52	37	29	17	11	17	29	37	36	29	16	6	3	6	16	29	36
		19 6.6:1 2.8:1			16 4.8:1 2.4:1			12 10:1 3.0:1														

	7' from surface														8' from surface													
	14' o.c.							16' o.c.							20' o.c.													
30'	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	12	12	12	13	12	12	12	13	12	12	12		
28'	18	18	18	18	18	18	18	17	17	17	17	17	17	17	17	14	14	14	14	14	14	14	14	14	14	14	14	
26'	19	20	20	20	20	20	20	19	19	19	19	19	19	19	19	15	15	15	15	15	15	15	15	15	15	15	15	
24'	21	21	21	22	22	21	21	20	20	20	21	21	21	20	20	16	16	16	16	16	16	16	16	16	16	16	16	
22'	22	23	23	24	24	23	23	21	21	21	22	22	22	21	21	18	17	17	17	17	18	17	17	17	17	17	18	
20'	24	24	24	25	25	25	24	23	23	23	23	23	23	23	23	19	19	18	18	18	19	18	18	18	19	19		
18'	26	26	26	26	26	26	26	24	24	23	24	24	24	23	24	20	19	19	19	19	19	19	19	19	19	20		
16'	28	27	27	27	27	27	28	25	25	24	24	24	24	25	25	20	20	20	19	19	19	19	19	20	20	20		
14'	30	29	28	29	29	29	30	26	26	25	25	25	25	26	26	21	21	21	21	19	19	19	21	21	21	21		
12'	32	32	31	31	31	31	32	30	29	29	28	28	28	29	30	25	25	24	23	22	21	22	23	24	25	25		
10'	41	40	39	38	38	39	41	36	36	34	33	32	33	34	36	32	31	29	26	24	23	24	26	29	31	32		
8'	49	47	45	43	43	45	49	43	41	39	37	35	37	40	43	39	37	34	29	25	24	25	29	34	37	39		
6'	60	58	53	47	47	53	60	50	48	44	39	36	39	44	50	46	44	39	31	25	23	25	31	39	44	46		
4'	79	73	60	49	49	60	79	63	59	50	40	36	40	50	63	60	56	46	33	24	20	24	33	46	56	60		
2'	82	73	53	38	38	53	82	64	58	44	32	27	32	44	64	62	56	41	27	17	14	17	27	41	56	62		

34 5.3:1 2.5:1

29 4.2:1 2.2:1

23 5.1:1 2.6:1

	9' from surface																					
	18' o.c.											22' o.c.										
36'	11	11	11	11	11	11	11	11	11	11	9	9	9	9	9	9	9	9	9	9	9	
34'	12	12	12	12	12	12	12	12	12	12	10	10	10	10	10	10	10	10	10	10	10	
32'	13	13	13	13	13	13	13	13	13	13	11	11	11	11	11	11	11	11	11	11	11	
30'	14	14	14	14	14	14	14	14	14	14	11	11	11	12	11	12	12	11	12	11	11	
28'	15	15	15	15	15	15	15	15	15	15	12	12	12	12	12	12	12	12	12	12	12	
26'	15	15	16	16	16	16	16	16	16	15	13	13	13	13	13	13	13	13	13	13	13	
24'	16	16	16	16	17	17	16	16	16	16	14	14	13	13	13	14	14	13	13	13	14	
22'	17	17	17	17	17	17	17	17	17	17	15	14	14	14	14	14	14	14	14	14	15	
20'	18	18	17	18	18	18	18	17	18	18	15	15	15	14	14	14	14	14	15	15	15	
18'	19	19	18	18	18	18	18	19	19	16	16	15	15	15	15	15	15	15	16	16		
16'	20	20	19	19	19	19	19	20	20	16	16	16	16	15	15	15	15	16	16	16		
14'	22	22	22	21	21	21	22	22	22	19	18	18	18	17	16	16	17	18	18	19		
12'	27	26	26	25	24	24	25	26	27	24	23	22	20	19	18	18	19	20	22	23		
10'	31	30	29	28	26	26	28	29	31	28	27	25	23	21	19	19	21	23	25	27		
8'	36	35	33	31	29	29	31	33	36	33	32	30	26	22	20	20	22	26	30	32		
6'	43	41	37	33	30	30	33	37	43	40	38	34	28	22	20	20	22	28	34	40		
4'	51	48	42	33	28	28	33	42	51	50	46	39	29	21	17	17	21	29	39	50		
2'	47	43	35	26	20	21	26	35	47	46	42	33	23	15	12	12	15	23	33	46		

22 4.8:1 2.4:1

18 5.6:1 2.8:1

Styles:

T152



T153



Lamp

900W clear T-3 tungsten halogen rated 31,000 lumens

Reflector

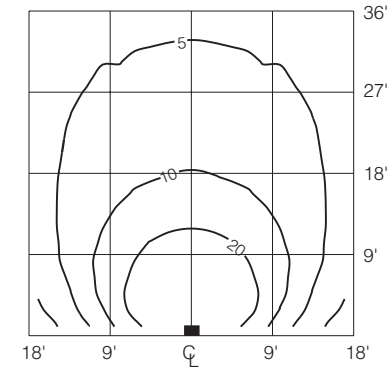
Large cross-section, nominal 24" long, optional micro-prismatic glass lens Reflector aiming is adjustable

Multipliers for Other Lamps:

1000W (Q1000T3/CL, 21,000 lumens) 0.68

Isofootcandle Diagram

Distance from surface 9'-0"



Charts illustrate the center section of a surface lighted by 6 or more luminaires. Values based on vertical and horizontal surface reflective factors of 0.30/0.10

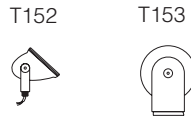
25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAl)

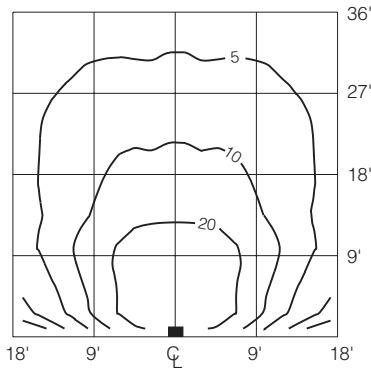
**Styles:**



**Lamp** 900W clear T-3 tungsten halogen rated 31,000 lumens  
**Reflector** Large cross-section, nominal 24" long, standard clear flat glass lens. Reflector aiming is adjustable

**Multipliers for Other Lamps:**  
 1000W (Q1000T3/CL, 21,000 lumens) 0.68

**Isofootcandle Diagram**  
 Distance from surface 9'-0"



Charts illustrate the center section of a surface lighted by 6 or more luminaires. Values based on vertical and horizontal surface reflective factors of 0.30/0.10

25 5.0:1 2.5:1  
 Ratio of maximum FC to average FC (Max:Avg.)  
 Ratio of maximum FC to minimum FC (Max:Min.)  
 Footcandles average initial, perpendicular to wall (FCAl)

7' from surface

		14' o.c.							
30'	15	15	15	15	15	15	15	15	15
28'	17	17	17	18	18	17	17	17	17
26'	20	20	20	21	21	20	20	20	20
24'	23	23	23	24	24	23	23	23	23
22'	26	25	26	27	27	26	25	26	26
20'	28	28	28	29	29	28	28	28	28
18'	30	30	31	31	31	31	30	30	30
16'	32	32	33	33	33	33	32	32	32
14'	34	34	35	35	35	35	34	34	34
12'	37	36	37	37	37	37	36	37	37
10'	44	44	43	41	41	43	44	44	44
8'	59	58	55	51	51	55	58	59	59
6'	67	65	57	50	50	57	65	67	67
4'	68	66	52	43	43	52	66	68	68
2'	72	68	51	39	39	51	68	72	72

36 5.0:1 2.0:1

8' from surface

		16' o.c.								20' o.c.										
30'	15	15	15	15	16	15	15	15	15	12	12	12	12	13	13	13	12	12	12	12
28'	17	17	17	18	18	18	17	17	17	14	14	14	14	15	15	15	14	14	14	14
26'	20	19	20	20	21	20	20	19	20	16	16	16	16	16	16	16	16	16	16	16
24'	22	21	22	23	23	23	22	21	22	18	17	18	18	18	18	18	18	18	17	18
22'	24	23	24	24	24	24	23	24	24	19	18	19	20	19	19	19	20	19	18	19
20'	25	24	25	26	25	26	25	24	25	20	19	20	21	20	20	20	21	20	20	20
18'	26	25	26	27	26	27	26	25	26	22	21	21	21	21	21	21	21	21	21	22
16'	28	27	28	28	28	28	27	28	28	23	22	23	23	22	22	22	23	23	22	23
14'	29	29	30	30	30	30	29	29	29	24	24	25	24	23	22	23	24	25	24	24
12'	31	31	32	31	30	31	32	31	31	27	27	27	24	23	22	23	24	27	27	27
10'	42	40	40	37	36	37	40	40	42	37	35	34	30	27	26	27	30	34	35	37
8'	50	49	46	41	40	41	46	49	50	45	44	40	33	28	26	28	33	40	44	45
6'	53	52	47	40	38	40	47	52	53	50	48	41	32	26	24	26	32	41	48	50
4'	55	53	44	36	33	36	44	53	55	52	50	40	29	22	20	22	29	40	50	52
2'	56	53	43	33	29	33	43	53	56	54	51	39	27	19	16	19	27	39	51	54

31 3.8:1 1.8:1

25 4.5:1 2.2:1

9' from surface

		18' o.c.								22' o.c.										
36'	11	10	10	11	11	11	11	10	10	11	9	9	9	9	9	9	9	9	9	9
34'	12	12	12	12	12	12	12	12	12	12	10	10	10	10	10	10	10	10	10	10
32'	13	13	13	13	14	14	13	13	13	13	11	11	11	11	11	11	11	11	11	11
30'	15	14	14	15	15	15	15	14	14	15	12	12	12	12	12	12	12	12	12	12
28'	16	15	16	16	16	16	16	16	15	16	13	13	13	13	13	13	13	13	13	13
26'	17	17	17	17	18	18	17	17	17	17	14	14	14	14	14	14	14	14	14	14
24'	18	17	18	18	18	18	18	18	17	18	15	14	15	15	15	15	15	15	14	15
22'	19	18	19	19	19	19	19	19	18	19	16	15	16	16	16	16	16	16	15	16
20'	20	19	20	20	20	20	20	20	19	20	17	16	16	17	16	16	16	17	16	17
18'	21	20	21	21	21	21	21	21	20	21	18	17	17	18	17	17	18	17	17	18
16'	22	21	22	22	22	22	22	22	21	22	19	18	19	18	18	17	18	18	19	18
14'	24	23	24	24	23	23	24	24	23	24	21	20	21	19	18	17	18	19	21	20
12'	30	29	29	28	27	27	28	29	29	30	26	25	25	23	21	20	20	21	23	25
10'	36	35	35	32	31	31	32	35	35	36	33	32	31	27	24	22	22	24	27	31
8'	41	39	38	33	31	31	33	38	39	41	38	36	34	28	24	21	21	24	28	34
6'	40	39	36	30	27	27	30	36	39	40	38	37	32	26	20	18	18	20	26	32
4'	43	42	36	29	25	25	29	36	42	43	42	40	34	25	19	16	16	19	25	34
2'	39	38	33	25	21	21	25	33	38	39	38	36	31	22	16	12	12	16	22	31

23 4.2:1 1.9:1

19 4.9:1 2.2:1