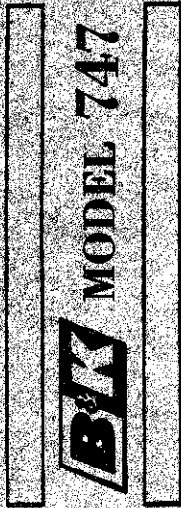


**SETUP
CHART**



DYNA-JET

SOLID STATE

DYNAMIC MUTUAL CONDUCTANCE

TUBE TESTER



Product of DYNASCAN CORPORATION
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THANKS AGAIN AND PLEASE TAKE THE TIME TO VISIT OUR STORE.

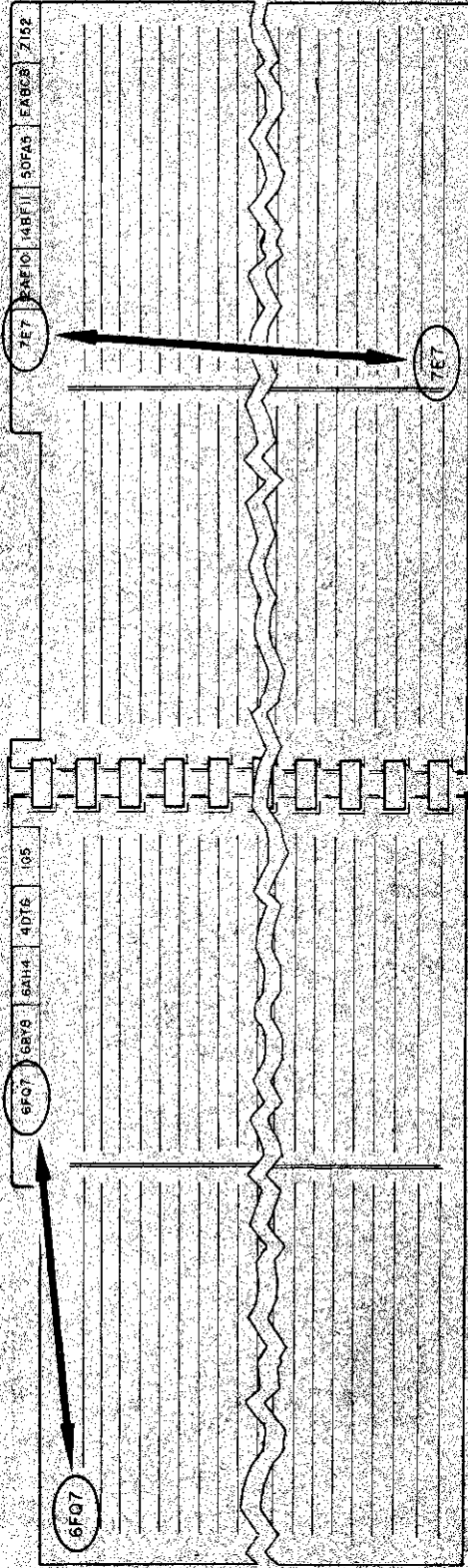
ATTENTION! EVERYTHING ON SALE NOW!!



HOT SALE!

TABS TOWARD FRONT OF BOOK
INDICATE FIRST TUBE LISTED
ON TABBED PAGE

TABS TOWARD REAR OF BOOK
INDICATE LAST TUBE LISTED
ON TABBED PAGE



CONDENSED TESTING PROCEDURE

1. Set the HEATER switch for the proper heater voltage. (HT column on TEST 1 tube chart).
 2. Set the SENSITIVITY Control. (SEN column on tube chart).
 3. Set up the program switches if the tube is to be tested in the programmed section (No's 1 through 14 on chart).
 4. Plug the tube into the socket indicated in the "SKT" column of the chart. Do not plug in more than one tube at a time. Connect plate cap if designated in column "C".
 5. Test in sequence:
SHORTS AND GRID EMISSION The tube is defective if the shorts indicator lights, or if the meter reads in GRID EMISSION-REJECT area for either test.
LIFE TEST Short tube life if meter reading drops 25% from TEST 1 or TEST 2 reading.
NOTE 1 Some tubes will read beyond full scale. This is normal when the tube is much better than average.
- NOTE 2 Tubes marked NOTE 2 1AY2, 1BH2, 1BL2, etc., do not have sockets but can be tested as follows: Connect 2 pieces of wire to bottom leads or screw terminals on base of tube, insert these wires into socket #24 pin No's 1 and 8. (These pins are on each side of keyway on socket 24). Connect top cap to cap on tube using another wire if necessary and plug into jack "Y". Test tube per setup instructions in chart. Caution—Do not touch exposed plate leads while test button is pressed.

ADDITIONAL INFORMATION

For your convenience we have added a Foreign vs. American cross reference type guide on Pages 56 through 60. The Foreign tube types listed may be tested on the Model 747 by simply referring to the test information for the American type number.

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C
OA2	1	99	30	E	F														Y
OA3	1	95	24	E	F														
OB2*	1	99	30	E	F														Y
OB3	1	75	24	E	F														Y
OC2	1	99	30	E	F														Y
OC3	1	90	24	E	F														Y
OD3	1	82	24	E	F														Y
OZ4	6	18	24	E	F														Y
1A3	1	99	30	A	F	D													Y
1A6	1	89	24	A	F	D	E												Y
1A7	1	98	24	A	F	F	E	F											Y
1AB6*	1	98	30	A	F	F	E	D	E										Y
1AC6	1	99	30	A	F	D	E	D	C	B									Y
1AD2*	1	71	16																Y
1AF4	1	99	30	A	F	F	E	B											Y
1AH5	1	99	30	A	D	F	E	B											Y
1AJ2*	1	53	16																Y
1AJ4	1	99	30	A	F	D	E	B											Y
1AN5	1	96	30	A	F	D	C	E	B										Y
1AU2*	1	52	29	F	A	B													Y
1AU3*	1	71	15																Y
1AX2*	1	64	29																Y
1AY2*	2	34	24	A															Y
1B3*	1	34	15																Y
1B7	1	88	24	A	F	D	E	D	B										Y
1BC2*	1	22	29																Y
1BH2*	1	22	24	A															Y
1BK2*	1	34	29	A	B														Y
1BL2*	1	92	24	A															Y
1BQ2*	1	24	29	A	B														Y
1BV2*	1	22	24	A															Y
1BX2*	1	34	29	A	B														Y
1BY2*	1	71	16																Y
1E5	1	99	24	A	F	D	E	B											Y
1E7	2	91	24	A	F	F	E	B											Y
1D5	2	89	24	B	F	D	A												Y
1D7	2	91	24	A	F	F	E	B											Y
1D8	2	99	24	B	F	A													Y
1D63*	1	71	24	A															Y
1DK1*	1	71	24	A															Y
1DK2*	1	71	24	A															Y
1DK29*	1	71	24	A															Y
1DN5	1	99	30	A	F	D	E	B											Y
1DY4	1	61	30	F	E	A	B	C											Y
1E4	1	99	24	A	F	E	B												Y
1E5	2	89	24	B	F	D	A												Y
1E7	2	80	24	A	F	E	B												Y
1F1	1	99	30	A	F	D	E	B											Y
1F2	1	85	30	A	F	D	E	B											Y
1F3*	1	89	30	A	F	F	E	B											Y
HT	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C

* INDICATES GOOD OVER 40

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C
1F5	2 85 24	A	A	F	D	E	B	B	B	B	B	B	B	B	B	A F 2
1F7	2 94 24	A	A	F	F	F	F	F	F	F	F	F	F	F	F	Good Over 10 A F 2
1F9	1 99 30	A	A	F	F	F	F	F	F	F	F	F	F	F	F	B 1 B F 2
1F9	1 99 30	A	A	F	F	F	F	F	F	F	F	F	F	F	F	B F 2 B F 2
1G3	1 34 15	A	A	F	F	F	F	F	F	F	F	F	F	F	F	A F 2
1G4	1 99 24	A	A	F	F	F	F	F	F	F	F	F	F	F	F	Good Over 30 B 1
1G9	2 95 24	A	A	F	F	F	F	F	F	F	F	F	F	F	F	B 1 A B 1
1G6	1 99 24	A	A	F	F	F	F	F	F	F	F	F	F	F	F	1 Y A F 2
1H2*	1 34 29	A	A	F	F	F	F	F	F	F	F	F	F	F	F	Good Over 50 B F 2
1H4	2 99 24	A	A	F	F	F	F	F	F	F	F	F	F	F	F	B 1
1H5	1 99 24	A	A	F	F	F	F	F	F	F	F	F	F	F	F	Good Over 50 A C 1
1H6	2 91 24	A	A	F	F	F	F	F	F	F	F	F	F	F	F	A C 1 G
1J3	1 71 15	A	A	F	F	F	F	F	F	F	F	F	F	F	F	Good Over 50 C C 1
1J5	2 80 24	A	A	F	F	F	F	F	F	F	F	F	F	F	F	C C 1
1J6	2 77 27	A	A	F	F	F	F	F	F	F	F	F	F	F	F	B 1
1K3	1 71 15	A	A	F	F	F	F	F	F	F	F	F	F	F	F	1 Y
1L4	1 85 30	A	A	F	F	F	F	F	F	F	F	F	F	F	F	A C 1
1L6	1 99 30	A	A	F	F	F	F	F	F	F	F	F	F	F	F	C F 2
1L4	1 99 27	A	A	F	F	F	F	F	F	F	F	F	F	F	F	Good Over 20 B A 2
1L6	1 99 27	A	A	F	F	F	F	F	F	F	F	F	F	F	F	A B 1
1L4	1 99 27	A	A	F	F	F	F	F	F	F	F	F	F	F	F	Good Over 20 C F 2
1L6	1 90 27	A	A	F	F	F	F	F	F	F	F	F	F	F	F	A C 1

* INDICATES GOOD OVER 40

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC							
1S86	1	99	24	A	F	F				B	E							A	F	2	61	30	F	E	A	B	C								B	F	2							
1T4*	1	99	30	A	F	F				E								A	F	2	6	10	24	A	D	F										C	B	1	Z					
1T5	1	78	24	A	F	D	E			B								C	C	1	6	50	30	E	C	A	B	F	D							D	A	1						
1U4	1	99	30	A	F	D				E								A	C	1	2	80	1	E	C	A	B	F	D								C	A	1					
1U5*	1	99	30	A	F	F				E								A	F	2	2	80	22	F	E	E											C	B	A	F	2			
1V2*	1	48	29	F			A	B										B			2	61	30	F	A	B	C												B	1				
1X2	1	34	29	F			A	B													2	65	30	C	E	A	B	F											B	A				
1Z2*	1	13	30	F			A	B													2	71	30	C	E	A	B	F												B	A	1		
2A84	2	55	30	F			A	B	C												2	57	1	C	E	A	B	F												B	F	2		
2A82*	2	34	16	F																	2	82	30	C	E	A	B	F													B	F	2	
2A82	2	34	16	F																	2	89	1	C	E	A	B	F													B	A	1	
2AV2*	2	99	29	F			A	B													2	50	30	C	E	A	B	F													B	A	1	
2AZ2*	2	18	29	F			A	B													2	54	1	C	E	A	B	F													B	A	1	
2B3*	2	34	15	F																	2	55	30	C	E	A	B	F													B	A	1	
2BA2	2	71	29	F			A	B													2	50	30	C	E	A	B	F														B	A	1
2B-H5	2	72	22	F			E														2	44	30	E	C	A	B	F	D													A	A	1
2BJ2	2	22	28	F			A	B													2	50	30	F	E	A	B	C														B	A	1
2BN4	2	52	30	C	E	A	B	F													2	48	4																					
2BU2*	2	14	16	F																	2	45	1	C	E	A	B	F																
2C51	2	60	29	A	C	E	F														2	45	4																					
2CN3*	2	14	15	F																	2	40	4																					
2C03	2	12	15	F																	2	96	29	D	C	A	B	F																
2CW4	2	90	22	F			E														2	66	30	F	E	A	B	C																
2GY6	2	54	1	F																	2	54	15																					
2D21	6	14	30	E	C	A	B	C	F												2	50	15																					
2DF4	2	68	29	D	F	A	B														3	18	29																					
2DS4	2	90	22	F			E														3	48	15																					
2DX4	2	53	30	F	E	A	B	C													3	55	30	A	F	D	E																	

* INDICATES GOOD OVER 40

3DH3

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
3DH3*	3	18	24	A														
3DJ3*	3	18	15															
3DK6	3	61	1															
3DL3	3	18	25	F	A	B												
3DR3*	3	18	24	A														
3DS8	3	18	24	A														
3DT6	3	91	1															
3DX4	3	53	30	F	E	A	B	C										
3DY4	3	61	30	F	E	A	B	C										
3DZ4	3	82	30	F	E	A	B	C										
3EA5	3	80	1															
3EW7	3	40	9															
3EJ7	3	58	9															
3ER5	3	65	30	C	E	A	B	F										
3ES5	3	71	30	C	E	A	B	F										
3EV5	3	57	1															
3FH5	3	82	30	C	E	A	B	F										
3FU5	3	50	30	C	E	A	B	F										
3FS5	3	99	1															
3FY5	3	65	30	C	E	A	B	F										
3GK5	3	50	30	C	E	A	B	F										
3GN6	3	40	9															
3GS8	3	95	29	C	D	F	A	B	C	E								
3GU5	3	44	30	E	C	A	B	F	D									
3GW5	3	50	30	F	E	A	B	C										
3GY5	3	48	21															
3HA5	3	48	4															
3HE7	3	52	23	A														
3HF5	3	57	21															
3HK5	3	45	4															

* INDICATES GOOD OVER 40

TUBE	HT	SENS	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SENS	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC			
4REG	4	91	1																4EJ7	4	58	9																		
4R18	4	74	6																4RR5	4	65	30	C	E	A	B	F									B A 1				
4BN4	4	52	30	C	E	A	B	F											4ES8	4	30	7																		
4BNG	4	75	5																4EW6	4	77	1																		
4BQ7	4	54	7																4EY5	4	55	30	C	E	A	B	F													
4BS8	4	54	7																4GJ7	4	63	29	C	E	C	A	B	F	D									B A 1		
4BU8	4	92	29	C	D	F	A	B	C	E									4GK5	4	50	30	C	E	A	B	F													
4BX6	4	76	9																4GM6	4	64	1																		
4BX8	4	55	29	F	E	C	A	B											4GS7	4	75	10																		
4R26	4	71	1																4GQ5	4	50	30	C	E	A	B	F													
4R77	4	53	7																4GXB	4	85	1																		
4R28	4	55	7																4GX7	4	75	29	C	E	A	B	F	D												
4R86	4	64	1																4GZ5	4	25	30	C	E	A	B	E	D	F											
4CE5	4	62	1																4HA5	4	48	4																		
4CM7	4	50	29	F	E	C	A	B											4HA7	4	91	23	A	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	E F B C A 1
4CS6	4	94	1																4HC7	4	91	23	A	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	E F B C A 1
4CY7	4	54	7																4HD8	4	75	29	C	E	C	A	B	.	.	.	.	.	.	.	.	.	.	.	F D . . . B A 1
4D15	4	54	1																4HK5	4	45	4																		
4DE6	4	61	1																4HM6	4	45	4																		
4DI4	4	50	29	E	C	A	B	.	.	.	.	.	.	.	.	.	.		4HM6	4	68	9																	
4DI5	4	88	2																4HO5	4	40	4																		
4DT6	4	91	1																4HR8	4	96	29	D	.	C	A	B	F	C E . . . B A 1
4E17	4	40	9																																					

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC			
4HS8	4	99	29	C	D	F	A	B	C	E	C	C	C	C	C	D	E	B	B	A	1
4HT6	4	60	9	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4JD6	4	65	9	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4JD8	4	61	9	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4JH8	4	64	1	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4JK6	4	61	1	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4JL6	4	23	1	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4JW8	4	80	6	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4KE8	4	88	6	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4KF8	4	92	29	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4KN8	4	41	29	F	E	C	A	B	C	D	E	F	G	C	F	B	A	C	B	A	1
4KT6	4	52	9	F	E	C	A	B	C	D	E	F	G	C	F	B	A	C	B	A	1
4LJ8	4	72	10	F	E	C	A	B	C	D	E	F	G	C	F	B	A	C	B	A	1
4LJ6	4	80		F	E	C	A	B	C	D	E	F	G	C	F	B	A	C	B	A	1
4LJ8	4	52		F	E	C	A	B	C	D	E	F	G	C	F	B	A	C	B	A	1
4MK8	4	98	29	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4MP12	4	60	1	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4MP26	4	56	2	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4RH2	4	53	7	C	D	F	A	B	C	E	F	F	C	C	C	C	F	B	B	A	1
4RH8	4	41	29	F	E	C	A	B	C	D	E	F	G	C	F	B	A	C	B	A	1
4RH15	4	53	7	F	E	C	A	B	C	D	E	F	G	C	F	B	A	C	B	A	1
5AF4	5	55	30	F	E	A	B	C	D	E	F	G	C	F	B	A	C	B	A	1	1

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
5W4	5	24	17															
5X4	5	16	24		F		A	B										
5X8	5	83	8															
5X9	5	48	28		C	E	C	A	B	F	D							
5Y3	5	24	17															
5Y4	5	32	24		F		A	B										
5Z4	5	24	17															
5Z10	5	16	17															
6A8	6	95	24		A	F	D	E	C	B	C							
6AB4	6	83	30		F	A	B	E	C									
6AB7	6	74	24		C	A	C	E	C	D	B	F						
6AB8	6	67	29		F	E	C	A	B	E	C	D	E					
6AB9	6	54	28		F	D	E	C	A	B								
6AC5	6	99	24		A	F	E	B	C									
6AC7	6	60	24		C	A	C	E	C	D	B	F						
6AC9	6	65	23		A													
6AJ0	6	80			A	F	C											
6AJ5	6	70	23		A	F	C											
6AJ7	6	70			A													
6AJ8	6	70			A													
6AD7	6	95	24		A	F	D	E		B	C							
6AD10	6	83	19															
6AF3	6	12	29															
6AF4	6	65	30		F	E	A	B	C									
6AF9	6	24	28		C		A	B	C	E	D	F						
6AF10	6	42	23		A	C	E	D	F	C								
6AF11	6	48	23		A	F												
6AG6	6	80	1															
6AG7	6	38	24		C	A	C	E	C	D	B	F						
6AG9	6	32	23		A	F	C											
6AG11	6	59	23		A													
6AH4	6	75	24		E	A												
6AH6	6	58	1															
6AH7	6	92	24		E	C	F											
6AH9	6	25	23		A													
6AJ0	6	46	29		F	C												
6AJ5	6	93	30		E	C	A	B	F	F								
6AJ7	6	60	24		C	A	C	E	C	D	B	F						
6AJ8	6	85	29		D	E	C	A	B	F	E							
6AD7	6	95	24		A	F	D	E		B	C							
6AD10	6	83	19															
6AF3	6	12	29															
6AF4	6	65	30		F	E	A	B	C									
6AF9	6	24	28		C		A	B	C	E	D	F						
6AF10	6	42	23		A	C	E	D	F	C								
6AF11	6	48	23		A	F												
6AG6	6	80	1															
6AG7	6	38	24		C	A	C	E	C	D	B	F						
6AG9	6	32	23		A	F	C											
6AG11	6	59	23		A													
6AH4	6	75	24		E	A												
6AH6	6	58	1															
6AH7	6	92	24		E	C	F											
6AH9	6	25	23		A													
6AJ0	6	46	29		F	C												
6AJ5	6	93	30		E	C	A	B	F	F								
6AJ7	6	60	24		C	A	C	E	C	D	B	F						
6AJ8	6	85	29		D	E	C	A	B	F	E							
6AD7	6	95	24		A	F	D	E		B	C							
6AD10	6	83	19															
6AF3	6	12	29															
6AF4	6	65	30		F	E	A	B	C									
6AF9	6	24	28		C		A	B	C	E	D	F						
6AF10	6	42	23		A	C	E	D	F	C								
6AF11	6	48	23		A	F												
6AG6	6	80	1															
6AG7	6	38	24		C	A	C	E	C	D	B	F						
6AG9	6	32	23		A	F	C											
6AG11	6	59	23		A													
6AH4	6	75	24		E	A												
6AH6	6	58	1															
6AH7	6	92	24		E	C	F											
6AH9	6	25	23		A													
6AJ0	6	46	29		F	C												
6AJ5	6	93	30		E	C	A	B	F	F								
6AJ7	6	60	24		C	A	C	E	C	D	B	F						
6AJ8	6	85	29		D	E	C	A	B	F	E							

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
6AT6	6	85	30	E	C	A	B	F	A	A	1							A A 1
		88		C	A	B	F	A	A	1								A A 1
		88		C	A	B	F	A	A	1								B 1
6AT9	6	77	30															1
		83																2
6AU4	6	10	19															1
6AU5	6	73	24	E	A	C	F	B	D	D	E	1						A A 1
6AU6	6	82	1															B A 1
6AU7	6	75	7															1
		75																2
6AU8	6	56	8															1
		62																2
6AV5	6	67	24	E	A	C	F	B	D	D	E	1						A A 1
6AV6	6	91	30	F	C	A	B	A	A	1								A A 1
		88		C	A	B	F	A	A	1								B 1
		88		C	A	B	F	A	A	1								B 1
6AV11	6	72	23	A	F	C												A A 1
		72		A	F	C												B A 1
		72		A	F	C												B 1
6AV7	6	90	24	C	E	F												A A 1
		58		C	F	A	B	A	A	1								B 1
		58		C	F	A	B	A	A	1								B 1
6AW8	6	44	8															1
		78																2
6AX2	6	88	29															1
6AX3	6	13	12															1
6AX4	6	13	18															1
6AX5	6	29	17															1
		22																2
6AX6	6	12	24	A	F	C												A A 1
		12		A	F	C												B A 1
																		1
																		2
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC

TUBE	HT SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB/C	TUBE	HT SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB/C			
6BX8	6	55	29	F	E	C	A	B										6CA11	6	23	23	A																
6BY5	6	14	24	C	A	F												6CB6	6	67	67	A	F	E														
6BY6	6	93	1															6CB6	6	64	64	A																
6BY7	6	82	9															6CB10	6	66	66	A	P	D	C	E	C											
6BY8	6	80	29	E	C	A	B											6CB10	6	66	66	A	P	D	C	E	C											
6BY11	6	90	19	A	C	E	C	D	F									6CC10	6	72	72	E	F	C	A	B												
6BZ3	6	9	12															6CD9	6	10	12																	
6BZ6	6	71	1															6CD6	6	53	24	A	C	E	C	B	D											
6BZ7	6	53	7															6CE5	6	62	62																	
6BZ8	6	55	7															6CF8	6	96	29	D	C	A	B	F	C	E										
6C4	6	75	30	F	A	B	E	C										6CG3	6	11	12																	
6C5	6	99	17															6CG6	6	85	30	E	C	A	B	F	D	C										
6C8	6	89	24	A	F	C												6CG7	6	74	74																	
6C9	6	56	29	E	D	F	A	B										6CG8	6	80	10																	
6C10	6	90	23	A	F	C												6CH5	6	10	20																	
6C12	6	85	29	D	E	C	A	B	F									6CH6	6	55	9																	
6C3	6	38	30	E	C	A	B											6CH7	6	53	7																	
6CA4	6	12	29	F	C	A	B											6CH8	6	66	28	F	D	A	B	C	E											
6CA5	6	55	3															6CK3	6	11	20																	
6CA7	6	53	14															6CK4	6	73	24	E	A	F	B	C												
																		6CK6	6	50	28	D	E	C	A	B	C	F										
TUBE																		TUBE																				

TUBE	HT	SENS	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
6CL3	6	11	20															1
6CL5	6	54	24	A	C	E	D	B	D									Z
6CL6	6	45	29	C	E	D	A	B	F	C								B A 1
6CL8	6	59	10															2
6CM3	6	11	20															1
6CM4	6	50	29	F	E	C	A	B										B A 1
6CM5	6	58	24	A	D	E	B	C										Z
6CM6	6	64	29	D	A	B	E	C	F									B A 1
6CM7	6	80	29	F	A	B	E	D										C A 1
6CM8	6	53	29	E	C	A	B	F	E									C A 1
6CN5	6	82	14	F	A	B	C	E										B A 1
6CN7	6	94	29		A	B	C	E	F									A A 1
6CL4	6	11	18															Z
6C06	6	95	30	E	C	A	B	F	C	D								A A 1
6C08	6	72	6															B 1
6CR5	6	89	30	C	A	B	F	D	E									B 1
6C09	6	74	29	E	C	A	B	F	D	C								B A 1
6CS5	6	51	29	D	C	A	B	E	F									B A 1
6CS6	6	94	1															C A 1
6CS7	6	87	29	A	B	F	E	C										1
6CS8	6	77	29	F	E	C	A	B	F	D	C							B A 1
6CS9	6	77	29	F	E	C	A	B	F	D	C							B A 1
6CS10	6	10	29	F	A	B	C	E										B A 1
TUBE																		C

TUBE	HT	SENS	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
6CU5	6	47	3															1
6CU6	6	69	24	A	D	B												Z
6CU8	6	68	29	C	F	D	A	B	C	E								B A 1
6CW4	6	90	22	F	E													B A 1
6CW5	6	34	29	E	D	A	B											C A 1
6CW7	6	65	29	C	E	F	A	B										C A 1
6CX7	6	54	7															D A 1
6CX8	6	45	8															1
6CY5	6	54	1															1
6CY7	6	94	29	A	B	F	E	C										A A 1
6CZ5	6	58		F	E	A	B		C									C F 2
6D2	6	62	30	F	A	B	C											B E 1
6D8	6	95	24	A	F	D	E	C	B	C								B 1
6D10	6	72	23	A	F	C												B A 1
6D4	6	11	18															1
6DA6	6	80	9															B A 1
6DB5	6	30	29	D	C	A	B	E										B A 1
6DB6	6	87	1															1
6DC6	6	67	1															1
6DC8	6	68	29	D	E	C	A	B	F	C								B A 1
6DE4	6	76		C	A	B			F									B 1
6DE4	6	76		C	A	B			F									B 1
6DE4	6	13	18															1
TUBE																		1



TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C
6EF6	6 65 24	A	F	D	E			B	C							C E 1	6EW7	6 63 28	F	E	A	B									D A 1		
6EH4	6 38 23	A														B A 1	6EH6	6 42 24	A	C	E	C	B	D							C A 1		
6EH5	6 57 3																6EH6	6 65 14													C E 1		
6EH7	6 40 19																6EZ5	6 65 14														1	
6EH8	6 71 8																6EZ8	6 74 29	C	E	F	A	B								B A 1		
6EJ4	6 85 23	A															6EJ4	6 72													B A 1		
6EL4	6 58 19																6EJ4	6 72														B A 1	
6EL4	6 85 24	C	A														6EJ4	6 91 24	A	F											A A 1		
6EM5	6 40 19																6EJ4	6 91 14														1	
6EM5	6 53 29	D	E	A	B												6EJ4	6 93 24	A	F	C											C A 1	
6EM7	6 57 24	E	F														6EM7	6 92	A	E	F	B	C								C A 1		
6EM7	95																6EM7	6 60 24	C	A	C	E	C	D	B	F					B A 1		
6EM7	6 85 24	C	A														6EM7	6 78 1														1	
6EJ7	6 88 29	C	E	C	A	B	D	F									6EJ7	6 77 1														1	
6ER5	94																6ER5	6 58														1	
6ER5	6 65 30	C	E	A	B	F											6ER5	6 96 29	C	C	A	B										B A 1	
6ES5	6 71 30	C	E	A	B	F											6ES5	6 88 29	F	A	B	D	E	B								A A 1	
6ES8	6 30 7																6ES8	90														A A 1	
6EJ6	6 45 30	E	C	A	B	F	F	C									6EJ6	90														B A 1	
6EJ7	6 27 29	A	B														6EJ7	85														C A 1	
6EJ7	96	C	F	A	B												6EJ7	6 73 30	E	C	A	B	F	D	C							A B 1	
6EJ7	96	C	F	A	B												6EJ7	6 61 29	F	E	A	B											D A 1
6EJ7	6 89 29	A	B	C	E	F											6EJ7	87														A A 1	
6EJ8	6 75 29	F	A	B													6EJ8	6 69 29	D	E	C	A	B	F									B A 1
6EV5	6 57 1																6EV5	76														B 1	
6EV7	6 78 7																6EV7	76														B 1	
6EV7	78																6EV7	6 37 14														1	
6EV7	6 77 1																6EV7	6 50 30	E	C	A	B	E	D									A A 1
6EV7	6 77 1																6EV7	6 68 10														1	
6EV7	6 77 1																6EV7	80														2	
TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
66M6	6 64 1															
66N7	6 73 29															
66N8	6 36 8															
66O7	6 63 29															
66S7	6 75 10															
66S8	6 95 29															
66T5	6 63 25															
66U5	6 44 30															
66U7	6 56 7															
66V5	6 55 21															
66W7	6 65 29															
66W8	6 42 29															
66W9	6 50 30															
66W6	6 62 24															
66W8	6 52 29															
66X6	6 85 31															
66X7	6 75 29															
66Y5	6 54 21															
66Z6	6 39 1															
66YB	6 99 29															
66Z5	6 25 30															
66Z4	6 75 24															
66Z2	6 67 24															
66Z1	6 91 1															
66A5	6 48 4															
66A6	6 23 9															
66A5	6 54 23															
66B6	6 20 9															
66B7	6 74 28															
66B5	6 56															
66B2	6 65 20															
66C8	6 62 29															
66D5	6 54 23															
66D7	6 73 28															
66E5	6 55															
66E3	6 66 23															
66E2	6 52 23															
66F5	6 57 21															
66F8	6 27 8															
66G5	6 80															
66G2	6 85 2															
66G8	6 75 29															
66H5	6 60															
66H2	6 57 23															
66J5	6 55 23															
66K1	6 39 1															
66L1	6 64 1															
66M1	6 73 1															
66N1	6 82 1															
66O1	6 91 1															
66P1	6 100 1															
66Q1	6 109 1															
66R1	6 118 1															
66S1	6 127 1															
66T1	6 136 1															
66U1	6 145 1															
66V1	6 154 1															
66W1	6 163 1															
66X1	6 172 1															
66Y1	6 181 1															
66Z1	6 190 1															
66A1	6 199 1															
66B1	6 208 1															
66C1	6 217 1															
66D1	6 226 1															
66E1	6 235 1															
66F1	6 244 1															
66G1	6 253 1															
66H1	6 262 1															
66I1	6 271 1															
66J1	6 280 1															
66K1	6 289 1															
66L1	6 298 1															
66M1	6 307 1															
66N1	6 316 1															
66O1	6 325 1															
66P1	6 334 1															
66Q1	6 343 1															
66R1	6 352 1															
66S1	6 361 1															
66T1	6 370 1															
66U1	6 379 1															
66V1	6 388 1															
66W1	6 397 1															
66X1	6 406 1															
66Y1	6 415 1															
66Z1	6 424 1															
66A1	6 433 1															
66B1	6 442 1															
66C1	6 451 1															
66D1	6 460 1															
66E1	6 469 1															
66F1	6 478 1															
66G1	6 487 1															
66H1	6 496 1															
66I1	6 505 1															
66J1	6 514 1															
66K1	6 523 1															
66L1	6 532 1															
66M1	6 541 1															
66N1	6 550 1															
66O1	6 559 1															
66P1	6 568 1															
66Q1	6 577 1															
66R1	6 586 1															
66S1	6 595 1															
66T1	6 604 1															
66U1	6 613 1															
66V1	6 622 1															
66W1	6 631 1															
66X1	6 640 1															
66Y1	6 649 1															
66Z1	6 658 1															
66A1	6 667 1															
66B1	6 676 1															
66C1	6 685 1															
66D1	6 694 1															

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		
6HJ7	6	75	29	C	E	C	A	B	F	D								B A 1	6HJ8	6	93	24	A	F	D	E								B A 1					
6HJ8	6	70	29	C	E	D	A	B	F									B A 1	6HJ9	6	67	29	F	E	C	A	B							B A 1					
6HK5	6	45	4															1	6HJ10	6	67	29	F	E	C	A	B								B A 1				
6HL5	6	44	29	F	D	A	B											C A 1	6HJ11	6	73	23	A	D	F	C	E	C							B B A 1				
6HL8	6	60	6															1	6HJ12	6	60	13													1	Z			
6HM5	6	45	4															2	6HJ13	6	64	23	A	E	D	C	F									C A 1			
6HM6	6	88	9															1	6HJ14	6	65	9														1			
6HO5	6	40	4															1	6HJ15	6	40	23	A	D	C	F										B A 1			
6HO6	6	82	1															1	6HJ16	6	55	29	A	B	D	E	C	F									B A 1		
6HR5	6	77	2															1	6HJ17	6	71	71	C	E	F	A	B									B A 1			
6HR6	6	71	1															1	6HJ18	6	67	23	A	E	D	C	F									B C A 1			
6HS5	6	35	23	A	E	D	C											B A E 1	6HJ19	6	60	13														1	Z		
6HS6	6	66	1															1	6HJ20	6	64	23	A	E	D	C	F										C A 1		
6HS8	6	99	29	C	D	F	A	B	C	E	C							A A 1	6HJ21	6	65	9														1			
6HT6	6	60	9															1	6HJ22	6	77	29	C	E	D	A	B	E	C								B A 1		
6HU8	6	58	29	D	E	F	A	B	C									1	6HJ23	6	83	83	C		A	B		C	E	F						B F 2			
6HV5	6	55	23	A	E	D	C											B A 1	6HJ24	6	47	29	A	E	D	C	F									B A A 1			
6HW8	6	86	29	C	F	D	A	B	E	C	F	C						B A 1	6HJ25	6	61	9														1			
6HZ6	6	83	1															1	6HJ26	6	56	8														1			
6HZ8	6	28	8															1	6HJ27	6	73	73															Z		
6J4	6	35	30	E	C	A	B											2	6HJ28	6	57	13														1			
6J5	6	93	14															1	6HJ29	6	39	29					A	B	D	E	D					B A 1			
6J6	6	60	30	F	A	B	E	C										B A 1	6HJ30	6	56	25	D	E	C	A	B		C	F						D E 1			
6J7	6	96	24	A	F	D	C	B										A A 1	6HJ31	6	44	23	A														B A 1		
																		1	6HJ32	6	64	1														1			
																		1	6HJ33	6	85	29	C	D	A	B	E	D	F	F							B A 1		
																		1	6HJ34	6	44	23	A															B A 1	
																		1	6HJ35	6	44	23	A																B A 1
																		1	6HJ36	6	44	23	A																B A 1
																		1	6HJ37	6	44	23	A																B A 1
																		1	6HJ38	6	61	1																	

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
6JK8	6	54	7															
6JL6	6	23	1															
6JL8	6	40	8															
6JM6	6	64	21															
6JN6	6	60	23	A	C	D	C			F								
6JN8	6	67	10															
6JN8	6	68	88															
6JN8	6	78	28	F	D	A	B	C		E	F	C			D	A		
6JN8	6	80	80															
6JN8	6	55	28	D	F	C	A	B		E								
6JS6	6	58	21															
6JT6	6	65	28	U	E	C	A	B		C	E							
6JT8	6	25	29															
6JU6	6	55	13															
6JU8	6	60	28	F	D	A	B	C		E	F	C			D	A		
6JW6	6	60	60															
6JW8	6	80	6															
6JX6	6	86	86															
6JX8	6	85	29	C	E	C	A	B	F	D								
6JY8	6	32	8															
6JZ6	6	54	21															
6JZ8	6	55	23	A						F								
6KA8	6	78	29															
6KD6	6	45	21															
6KD8	6	68	68															
6KF8	6	88	86															
6KF8	6	92	29	C	D	F	A	B	C	E	F	C						
6KG6	6	23	26	E	C	D	A	B	D	C	E	F	C					
6KL8	6	86	29	C	E	C	A	B	D	F								
6KM6	6	55	13															
6KN8	6	92	29	F						A	D	C	E	D				
6KN8	6	92	92															
6KN8	6	35	21															
6KN8	6	41	29	F	E	C	A	B										
6KR8	6	22	8															
6KR8	6	50	50															
6JZ8	6	55	23	A						F								
6KA8	6	78	29															
6KD6	6	45	21															
6KD8	6	68	68															
6KF8	6	88	86															
6KF8	6	92	29	C	D	F	A	B	C	E	F	C						
6KG6	6	23	26	E	C	D	A	B	D	C	E	F	C					
6KL8	6	86	29	C	E	C	A	B	D	F								
6KM6	6	55	13															
6KN8	6	92	29	F						A	D	C	E	D				
6KN8	6	92	92															
6KN8	6	35	21															
6KN8	6	41	29	F	E	C	A	B										
6KR8	6	22	8															
6KR8	6	50	50															
6JZ8	6	55	23	A						F								
6KA8	6	78	29															
6KD6	6	45	21															
6KD8	6	68	68															
6KF8	6	88	86															
6KF8	6	92	29	C	D	F	A	B	C	E	F	C						
6KG6	6	23	26	E	C	D	A	B	D	C	E	F	C					
6KL8	6	86	29	C	E	C	A	B	D	F								
6KM6	6	55	13															
6KN8	6	92	29	F						A	D	C	E	D				
6KN8	6	92	92															
6KN8	6	35	21															
6KN8	6	41	29	F	E	C	A	B										
6KR8	6	22	8															
6KR8	6	50	50															

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC			
6KS6	6 83	5															6LC8	6 77	29														BA1			
6KS8	6 33	8																6LD6	6 51	9													BA1			
6KT6	6 77																	6LD12	6 90	29													1			
6KT8	6 67	8																	58														BA1			
6KUB	6 93																		58														BA1			
6KV6	6 20	29																	6LD13	6 79	29													BA1		
6KV8	6 90																		83														BA1			
6KW6	6 54	25																	6LE8	6 57	29													BA1		
6KY8	6 29	8																	6LF6	6 48	21													1Z		
6KY9	6 85																		6LF8	6 80														1Z		
6KY9	6 20	9																		90														2		
6KY8	6 55	25																	6LH6	6 53	23														2	
6KZ8	6 99																		6LH6	6 86	24														FA1P	
6L5	6 73	29																	6LJ8	6 72	10														1	
6L6	6 94																			90														1		
6L7	6 96	24																	6LM8	6 68	6														1	
6L10	6 53																			58														2		
6L12	6 99	24																	6LN8	6 66	6														1	
6L41	6 38	24																		90														1		
6L43	6 70	7																	6LO6	6 55	13														1Z	
6L66	6 70																		6LO8	6 31	8														1Z	
6L88	6 82	29																		41														2		
6L88	6 45	29																	6LP6	6 53	21														2	
6L88	6 55	21																	6LR8	6 51	25														CE1	
6L88	6 21	8																		57														BA1		
6L88	6 71																			71														BA1		
6L88	6 86	24																		6LC8	6 86	24														BA1P

6NK7GT

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
6NK7GT	6	84	24	C	A	C	E	C	D	B	F							B A 1
6P5	6	98	14															B A 1
6P15	6	74	29	E	C	A	B			F	D							C A 1
6P17	6	73	30	E	D	A	B	F	C	D								B A 1
607	6	88	24	A	F					B	C							A A 1 G
	6	87		A	F					B	C							B 1
	6	87		A	F					B	C							B 1
6011	6	88	23	A	F	C				F	B	A	A					B A 1
	6	88		A						F	C	E						B A 1
	6	73		A						F	C	E						B A 1
6R3	6	14	29	E	C	A	B			F	D							B A 1
6R4	6	74	29	E	C	A	B			F	D							B A 1
6R7	6	88	24	A	F					B	C							B A 1
	6	86		A	F					B	C							B 1
	6	86		A	F					B	C							B 1
6R8	6	86	29	C	A	B				F	D							B A 1
	6	58		C	A	B				F	D							B A 1
	6	93		C	A	B				F	D							B A 1
	6	91	24	C	A	F	D	E	C	B	E							B A 1
	6	99	24	C	A	F	D	E	C	B	E							B A 1
	6	99		C	A	F	D	E	C	B	E							B A 1
	6	99		C	A	F	D	E	C	B	E							B A 1
6R-A2	6	45	29	A	B				F	D							B A 1	
6R-A6	6	52	29	C	E	A	B			F	D							B A 1
6R-A8	6	30	29	C	F	A	B			F	D							B A 1
6R-A9	6	54	29	C	E	A	B			F	D							B A 1
6R-A11	6	60	29	F	E	A	B			C								B A 1
	6	85		A	B	F	E	C										B A 1
6R-B10	6	42	29			C								B A 1				
6R-B11	6	55	29			C								B A 1				
6R-B12	6	50	29			C								B A 1				
6R-HH2	6	53	7							E	F	C						B A 1
	6	53								E	F	C						B A 1
6R-HH8	6	41	29	E	C	A	B										B A 1	
	6	52		B	F	E	C										B A 1	

6SQ7

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
6SQ7	6	99	24	C	E	C	F	A	B									A A 1
	6	85	85	C	C	C	F	A	B									B 1
	6	85	85	C	C	C	F	A	B									B 1
	6	92	24	C	E	C	F	A	B									D A 1
	6	85	85	C	C	C	F	A	B									B 1
	6	80	80	C	C	C	F	A	B									B 1
6SS7	6	86	24	A	C	E	C	D	B	F								B A 1
6ST7	6	93	24	C	E	C	F	A	B									C A 1
	6	85	85	C	C	C	F	A	B									B 1
	6	85	85	C	C	C	F	A	B									B 1
6SU7	6	93	24	E	F	C		A	B									A A 1
	6	93	93	E	F	C		A	B									A A 1
6SV7	6	80	24	C	E	C	D	F	A	B								B A 1
	6	88	88	C	C	C	F	A	B									B 1
6SZ7	6	91	24	C	E	C	F	A	B									B A 1
	6	88	88	C	C	C	F	A	B									B 1
	6	89	89	C	C	C	F	A	B									B 1
6T4	6	56	30	F	E	A	B	C										C A 1
6T7	6	90	24	A	F			B	C									B A 1 G
	6	87	87	A	F			B	C									B 1
	6	87	87	A	F			B	C									B 1
	6	90	29	A	B	C	D	E	F									A A 1
	6	58	58	F	C	A	B											B 1
	6	90	24	A	F			B	C									B A 1
	6	87	87	A	F			B	C									B 1
	6	90	29	A	B	C	D	E	F									A A 1
	6	58	58	F	C	A	B											B 1
6T9	6	94	28	A	F			B	C									A A 1 G
	6	66	66	A	F	E	C											B A 1
6U10	6	90	19	A	F	E	C											C 1
	6	99	99	A	F	E	C											C 1
	6	15	18	A	F	E	C											C 1
6U6	6	54	14	A	F	E	C											C 1
6U7	6	95	24	A	F	D	C											C 1

TUBE	HT	SENSKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C
6X9	6	48	28	C	E	C	A	B	F	D	. . . . .	B	A	1				
		72		C	. . . . .	A	B	. . . . .	E	F	. . . . .	B	A	1				
6Y6	6	40	14	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
6Y9	6	20	28	A	B	C	E	D	F	. . . . .	B	A	1					
		54		E	C	D	F	A	B	. . . . .	B	A	1					
6Y10	6	65	19	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
		90		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
6Z10	6	73	23	A	D	C	. . . . .	F	E	B	C	A	1					
		95		A	F	B	D	E	C	. . . . .	B	A	D	1				
				Normally Shows Short-Orbit Emission														
6Z31	6	18	30	F	A	B	. . . . .	C	. . . . .	C	1							
		68		A	B	F	C	. . . . .	C	1								
6ZV5	6	17	17	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
7A4	7	62	27	A	. . . . .	F	C	B	. . . . .	B	A	1						
7A5	7	35	27	A	F	D	. . . . .	E	C	B	. . . . .	B	A	1				
7A6	7	55	27	A	C	F	. . . . .	B	. . . . .	B	1							
		65		A	. . . . .	F	C	B	. . . . .	B	1							
7A7	7	80	27	A	F	D	C	. . . . .	E	C	B	. . . . .	A	A	1			
7A8	7	78	27	A	F	C	E	D	E	C	B	. . . . .	A	A	1			
7AD7	7	47	27	A	F	D	C	. . . . .	E	C	B	. . . . .	B	A	1			
7AF7	7	72	27	A	C	F	E	. . . . .	B	. . . . .	B	A	1					
		72		A	. . . . .	F	C	B	. . . . .	B	A	1						
7AG7	7	80	27	A	F	D	C	. . . . .	E	C	B	. . . . .	B	A	1			
7AH7	7	88	27	A	F	D	C	. . . . .	E	C	B	. . . . .	B	A	1			
7AK7	7	61	27	A	F	D	C	. . . . .	E	C	B	. . . . .	C	A	1			
7AN7	7	65	29	C	F	F	A	B	. . . . .	C	A	1						
		65		. . . . .	A	B	E	C	. . . . .	C	A	1						
7AU7	7	75	7	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
		75		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
7BA7	7	90	27	A	F	. . . . .	E	C	B	. . . . .	A	A	1					
7B5	7	85	27	A	F	D	. . . . .	E	C	B	. . . . .	B	A	1				
		90		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
		93		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	
7Z4	7	21	27	A	F					C B								C 1	7GV7	7	65	29	D	F	A	B									B A 1			
8A8	8	66	6	A						C B								C 1	7H7	7	72	27	A	F	D	C	E	C B							B A 1			
8AC9	8	65	23	A						C C E D F B								B A 1	7H68	7	75	29	C	E	C	A	B									B A 1		
8AC10	8	60	23	A	F	C												B	7M7	7	63	27	A	F	E	D	E	C B							B A 1			
8A19	8	35	23	A	F	C												B B 1	7K7	7	88		A	F	E											A A 1		
8AR11	8	75	23	A	F	D	C	E	C									B B A 1	7KY6	7	20	9														B 1		
8AUB	8	56	8															B A 1	7KZ6	7	17	9														B 1		
8AV11	8	72	23	A	F	C												B B A 1	7L7	7	77	27	A	F	D	C	E	C B									B A 1	
8AW8	8	44	8															B B A 1	7M-P18	7	85	2															B 1	
8B8	8	54	29	C	E	A	B	T	D									B 1	7N7	7	89	27	A	C	F	E										C A 1		
8B10	8	92	23	A	C	E	F											B B A 1	7O7	7	88	27	A	F	D	E	C	E	C B									B A 1
8B11	8	53	28	A														B B A 1	7R7	7	84	27	A	F	D	E	C	B									B A 1	
8B12	8	60	23	A														B B A 1	7S7	7	89	27	A	F	E	D	E	C B									B A 1	
8B13	8	59	23	A	F	D	E	C										B B A 1	7V7	7	85	27	A	F	D	C	E	C B									B A 1	
8B14	8	60	23	A														B C A 1	7W7	7	64	27	A	F	D	E	C	B									B A 1	
8B15	8	53	28	A														B C A 1	7X6	7	12	27	A														C 1	
8B16	8	59	23	A	F	D	E	C										B B 1	7X7	7	95	27	A	F	E	C											A A 1	
8B17	8	92	23	A	F	D	E	C										B B A 1	7Y4	7	62		A														B 1	
8B18	8	84		A														B C A 1		7	18		A														C 1	

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC					
8BH8	8	59	8															1	8CU8	8	68	29	C	F	D	A	B	C	E						B	A	1					
		54																2			60																					
8BM11	8	69	23	A						F	C	D	C	E	B	A	1	8CW5	8	34	29	F	E	C	A	B	F	D							C	A	1					
		68																	8DX9	8	45	8																				
8BN8	8	80	29							F	E	C							8CV6	8	54	1																				
		62																	8CY7	8	94	29																				
8BN11	8	70	23	A	C	E	D	F	C										8DE7	8	61	29	F	E	A	B	C									C	F	2				
		70																		8DX8	8	88															D	A	1			
8B06	8	40	29							F	D									8EB8	8	35	8																			
8B07	8	54	7																	8EM5	8	53	29	D	E	A	B	C	F									B	E	1		
8B011	8	68	23	A	F	D	C	E	C											8EF7	8	27	29	A	B	C	D	F														
8BU11	8	65	23	A						E	D	F	C	B	B	A	1				96																					
		55																		8F07	8	74	7																			
8CB11	8	66	23	A	E	D	F	C	E	C										8GJ7	8	63	29	C	E	C	A	B	F	D									B	A	1	
8C67	8	74	7							C	F	D	E	C	B	B	A	1				96																				
		74																		8GM6	8	64	1																			
8CH8	8	66	29							F	D	A	B	C	E					8GN6	8	36	38																			
		94																			95																					
8CL8	8	68	10																	8GU7	8	56	7																			
		74																			56																					
8CM7	8	80	29							A	B	C	E							8GX7	8	75	29	C	E	A	B	F	D										B	A	1	
		94																			55																					
8CN7	8	94	29							A	B	C	E	F						8HA6	8	23	9																			
		63																			8HG8	8	75	29	C	E	C	A	B	F	D									B	A	1
8CS7	8	87	29							A	B	F	E	C							80																					
		68																																								
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC					

TUBE	HT SEN	SKT 1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN	SKT 1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
8J8	8 56	8															8MD8	8 76	25	F		A	B	C	E							CA 1	
8J8	8 54	7															8M-P12	8 76		F	A	B	C	E							CA 1		
8J8	8 55	8															8MUB	8 76		F	A	B	E	C							CA 1		
8J8	8 40	8															8MUB	8 52	6												1		
8J8	8 66	8															8MUB	8 57													2		
8J8	8 25	29															8R-HP1	8 54	29	C	E	A	B	F	D							CA 1	
8J8	8 97	97															8R-LP1	8 68		F	A	B	C	D	F							BA 1	
8J8	8 60	29															8R-LP1	8 56	29	C	E	A	B	F	D							CA 1	
8J8	8 60	60															8SN7	8 75		F	A	B	C	F							CA 1		
8J8	8 60	60															8SN7	8 72	24	E	F	C		A	B							BA 1	
8J8	8 55	8															8U9	8 72		E	F	C	A	B								BA 1	
8J8	8 76	76															8U9	8 48	28	C	E	C	A	B	F	D						BA 1	
8K8	8 78	29															8X9	8 85		C	E	A	B	F	D							BA 1	
8K8	8 78	78															8X9	8 48	28	C	E	C	A	B	F	D							BA 1
8K8	8 22	8															9A8	8 72		C	E	A	B	F	D							BA 1	
8K8	8 50	50															9A8	9 66	6												1		
8K8	8 33	8															9AB4	8 50														2	
8K8	8 77	77															9AB4	9 83	30	F	A	B	E	C								BA 1	
8K8	8 67	8															9AB4	9 25	23	A	E	F	C	D	C	F	B	A				BA 1	
8L8	8 83	83															9AK8	8 80		A	E	F	C									CA 1	
8L8	8 77	29															9AK8	9 90	20		A	B	C	E	F							CA 1	
8L8	8 77	77															9AK8	8 58			A	B	F	C								B 1	
8L8	8 57	29															9AK8	8 58		F	A	B	C	D								B 1	
8L8	8 57	57															9AK8	8 58		F	C	A	B									B 1	
8L8	8 72	10															9AK8	9 60	23	A	F	C										E B B A 1	
8L8	8 80	80															9AK8	8 60		A		F	C	E								B B A 1	
8L8	8 68	9															9AM10	8 60		A	C											E B B A 1	
8L8	8 68	29															9AM10	9 63	23	A	F	C										E B B A 1	
8L8	8 62	62															9AM10	8 63		A	F	C	E									B B A 1	
8L8	8 62	62															9AM10	8 63		A	C											E F B B A 1	
TUBE	HT SEN	SKT 1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN	SKT 1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
9A08	9 70	7														1	9KV8	9 29	8												1		
9A07	9 75	7														2	9KV6	9 16	9												2		
9B11	9 60	23	A	F	D	C	C	E								B B A 1	9KZ8	9 73	29	F	C	A	B	F	D						B A 1		
9B7	9 71	29	F	E	C	A	B									B A 1	9A6	9 21	9	F		A	B	C	E						B A 1		
9B8	9 63	63														B 1	9M-HH3	9 56	30	F	A	B	E	C							B A 1		
9C6	9 72	78														B 1	9M18	9 55	29	F		A	B	C	E							B A 1	
9C8	9 80	74														2	9M18	9 55	23	A	F	C										B A 1	
9C9	9 84	84														2	9M18	9 55	23	A	F	C										B A 1	
9D4	9 80	26	C													B A 1	9M-P12	9 60	1												1		
9E6	9 65	29	C	E	A	B	F	D								C A 1	9R-A6	9 52	29	C	E	A	B									C A 1	
9G8	9 68	6	F													C A 1	9R-AL1	9 55	29	F	E	A	B	C								C A 1	
9G8	9 73	6	F													A F 2	9R-HH2	9 68	6													B A 1	
9D4	9 80	26	C													2	9R-HR2	9 68	6													2	
9G8	9 65	29	A	F	D	E	B	C								D E 1	9R-L1	9 61	29	F	E	A	B	C								D A 1	
9G8	9 68	6	F													1	9R-L1	9 61	29	F	E	A	B	C								D A 1	
9G8	9 42	29														2	9R-L1	9 61	29	F	E	A	B	C								D A 1	
9H6	9 66	1														C A 1	9U8	9 79	6												1		
9J6	9 60	30	F	A	B	E	D									B A 1	9V9	9 85	28	C	E	E	D	A	B	F						B A 1	
9K6	9 60	60	F	A	B	E	D									B A 1	9X8	9 83	8													1	
9K6	9 80	6														B A 1	9X8	9 83	8													2	
9K6	9 54	29	C	E	A	B	C	F	D							2	9X8	9 83	8													2	
9K6	9 54	29	C	E	A	B	C	F	D							B A 1	9X8	9 83	8														2
TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	
10AF11	10	48	23	A	F														10EW7	10	63	29	F	E	A	B										DA1		
				A	C	F	E															88		A	B	F	E	C								CA1		
				A	E	F	C													10FD7	10	61	29	F	E	A	B										DA1	
10A111	10	95	23	A	C	F	C	F	D											10FR7	10	60	29	F	E	A	B	F	E	C						DA1		
				A					E	C	D	F	B	C	A	1						99		A	B	F	E	C								BA1		
10B05	10	40	29	F	E	C	A	B	F	D										10GF7	10	94	11													1		
10C8	10	59	29	F	E	C	A	B	F	D												80														2		
10C14	19	85	29	D	E	C	A	B	F	E										10GH8	10	68	6													1		
				D	E	C	A	B	F	E												56														2		
10CW5	10	34	29	E	C	A	B	F	D											10GK6	10	40	9													1		
10D2	19	62	30	F	E	A	B	C	D											10GM8	10	63	29	F	E	D	A	B									AB1	
				C	A	B	F	D														63			A	B	F	E	C							AB1		
10DE7	10	61	29	F	E	A	B	C	D											10GN8	10	36	8													1		
									E	C												95														2		
10DR7	10	64	29	F	E	A	B	C	D											10GV8	10	42	29		A	B	F	D	C	E							CA1	
									E	C												57		F	E	C	A	B									BA1	
10EX6	10	57	29	A	B	F	C	E	D											10HA6	10	23	9														1	
				E	F	C	A	B														10HF8	10	27	8													1
10E312	25	17	14																			80														2		
10E349	6	79	14																	10JA5	10	40	23	A	D	C	F										E C B C A 1	
10E518	6	96	24	A	F	D	C	B	C											10JB8	10	59	29		A	B	C	E	D	F							BA1	
10E1448	6	93	14																			71		C	E	F	A	B									BA1	
10E1538	6	69	14																	10JB8	10	26	29		A	B	C	E	D	F								BA1
10E11581	10	91	24	A	F				B	C												97		C	E	F	A	B									BA1	
10E88	10	35	8																	10JY8	10	32	8														1	
																						55														2		
10EG7	10	63	24	E	F	D			A	B										10KR8	10	22	8															1
									E	F	C	A	B									50															2	
10EM7	10	57	24	E	F	C	A	B												10KU8	10	20	26		A	B	C	E	D	F								BA1
									E	F	C	A	B									90		C	F	A	B										BA1	
10E88	10	35	8																			90		C	F	A	B										BA1	

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C
10LB8	10 21 8															1	11BT11	10 23 23	A	F												B A 1	
10LD6	10 51 9															2		65	A													B A 1	
10LD12	10 90 29															1	11C6	53	A	E	C										B A 1		
10LE8	10 58																11CA11	10 23 23	A													B A 1	
10LE8	10 57 29																11CF11	10 42 23	A	F	D	E	C									B A 1	
10LW8	10 25 8																	62	A												B A 1		
10LW8	10 21 8																11CH11	10 63 23	A													B A 1	
10LW8	10 55 8																	25	A	F											B A 1		
10LW8	10 99																11CY7	10 94 29	A	B	E	C										B A 1	
10LW8	10 99																	58	F	E	A	B										C F 2	
10PL12	10 54 29																11DS6	10 76 2															
10T10	10 88																11FY7	10 56 23	A	E	F											B A 1	
10T10	10 90 19																	99	A													B A 1	
10T10	10 99																		Good Over 30														
10T10	10 73 29																11HM7	10 23 29	D	E	C	A	B									B A 1	
11AF9	10 24 28																11JE8	10 56 8															
11AR11	10 75 23																11KV8	10 29 8															
11BM8	10 54 29																11L08	12 31 8															
11BQ11	10 68 23																11LT8	10 68 29	C	D	F	A	B									B A 1	
11BQ11	10 84																	62															
11BQ11	10 84																11LY6	10 46 8															
11BQ11	10 84																11MS8	10 35 29															
11BQ11	10 84																	62	F	C	A	B											

TUBE	HT	SEM	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C
12AX7	12 89	29	F	E	C	A	B												
12AY3	12 14	20																	
12AY7	12 38	7																	
12AZ7	12 74	7																	
12B4	12 95	29	D	E	A	B													
12B7	14 80	27	A	F	D	C	E	C	B										
12B8	12 90	24	C	A	F	F	B												
12BA6	12 78	1																	
12BA7	12 89	29	D	E	C	A	B	C	E	F									
12BA11	12 92	23	A	F	D	E	C	F	B	A									
12B-B14	12 42	26	E	C	A	B	D												
12BC32	12 91	30	E	C	A	B													
12B05	12 85	1																	
12B03	12 12	12																	
12B56	12 91	1																	
12B16	12 85	30	E	C	A	B													
12B51	12 53	19																	
12BH7	12 55	7																	
12BK5	12 53	20	F	E	A	B	C	D											
12BK6	12 89	30	E	C	A	B													
12BK7	12 83	29	A	C	F	D	C	E											
12BV1	12 83	29	A	C	F	D	C	E											
12BV4	12 25	29	F	E	C	A	B												
12BX6	12 76	9																	
12BX7	12 55	24	E	F	C														
12BY3	12 10	29																	
12BY7	12 42	9																	
12BZ6	12 71	1																	
12BZ7	12 85	7																	
1205	12 44	8																	
TUBE	HT	SEM	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	T8	C
12C8	12	70	24	C	A	F	.	D	B	C	.	.	.	.	.	B	D	1	G
		88		C	A	F	.	B	C	.	.	.	.	.	.	B			
		88		C	A	.	F	.	B	C	.	.	.	.	.	B	1		
12C8Y	12	99	24	A	E	A	.	D	B	C	.	.	.	.	A	A			
		82		A	.	F	.	B	C	.	.	.	.	.	B	1			
		82		A	.	F	.	B	C	.	.	.	.	.	B	1			
12CA5	12	55	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12CK3	12	11	20	C	E	A	B	F	E	.	.	.	.	.	A	B	1		
12CL3	12	11	20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12CM6	12	64	28	D	.	A	B	E	C	.	F	.	.	.	B	A	1		
12CN5	12	72	30	C	E	A	B	.	F	.	.	.	.	.	A	B	1		
12CR6	12	89	30	C	A	B	E	D	.	F	.	.	.	.	B	A	1		
		88		C	F	A	B	.	.	.	.	.	.	.	B	1			
12CS5	12	51	29	D	C	.	A	B	E	.	.	.	.	.	D	A	1		
12CS6	12	94	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12CT3	12	10	29	.	.	.	A	B	.	F	.	.	.	.	C	.	.		
12CT8	12	57	29	.	.	A	B	F	D	E	C	.	.	.	B	A	1		
		63		F	E	D	A	B	.	.	.	.	.	.	B	A	1		
12CU5	12	47	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12CUB	12	69	24	A	.	D	E	.	B	C	.	.	.	.	D	E	1	Z	
12CX6	12	68	30	E	C	A	B	F	F	C	.	.	.	.	A	B	1		
12CY6	12	75	30	E	C	A	B	F	F	C	.	.	.	.	A	B	1		
12D4	12	11	18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12DA6	12	80	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12DB5	12	30	29	D	C	.	A	B	E	.	.	.	.	.	B	A	1		
12DB8	12	80	29	E	.	A	B	F	.	C	.	.	.	.	A	B	1		
		62		.	.	C	F	A	B	.	.	.	.	.	.	.	.	.	1
12DF5	12	22	29	F	.	C	A	B	.	.	.	.	.	.	C	.	.		
		22		.	.	A	B	F	.	C	.	.	.	.	.	.	.	.	1
12DF7	12	83	28	F	E	C	A	B	.	.	.	.	.	.	A	A	1		
		83		.	.	A	B	F	E	C	.	.	.	.	A	A	1		
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	T8	C

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C
1207	12 88 24	A	F													A A 1 G	12SR7	12 92 24	C	E	C		F	A	B						C A 1		
	87	A	F													B 1		86	C	E	C		F	A	B					B			
	87	A	F													B 1		85	C	E	C		F	A	B					B 1			
12R6	12 50 3																12SR7	12 86 24	A	C	E	C	D	B	F					B A 1			
12R-B12	12 50 29	D	E	A	B											C E 1 Z	12SN7	12 93 24	E	C		F	A	B						C A 1			
12R-K19	12 10 28	A	B													C 1 K		88	C	E	C		F	A	B					B 1			
12R-K21	12 14 29	A	B													C 1 K		88	C	E	C		F	A	B					B 1			
12R-L13	12 55 7																12SN7	12 91 24	E	F	C		A	B						C A 1			
	55																	91	E	F	C		A	B						C A 1			
12R-L15	12 68 7																12SN7	12 93 24	C	A	E	C	B	F						B A 1			
	68																	12 90 19															
12R8	12 99 24	D	E	A	B											A A 1 G		99															
	88	F	C													B 1	1207	12 64 29	F	E	C	A	B							A B 1			
	88	F	C													B 1		64	C	E	C	A	B	F	E	C				A B 1			
	88	F	C													B 1	12V6	12 79 14															
12SA7	12 93 24	C	A	F	D	E	C	B	F							B A 1	12W6	12 51 14															
12SC7	12 99 24	F	E													A A 1	12X4	12 18 30	F	A	B										C 1		
	98	E	F	C												A A 1		18	A	B	F	E	C								C 1		
12SF5	6 90 24	C	E	F												A A 1	13CM5	12 57 24	A	D	E		B	C						D E 1 Z			
12SF7	12 94 24	F	C	D												B A 1	130W4	12 80 22	F	E			C	B	A						A B 1		
	88	C	F													B 1	13D1	25 72 24	E	F	C		A	B						B A 1			
12SG7	12 77 24	C	A	E	C	D	B	F								B A 1		72	E	F	C	A	B								B A 1		
12SH7	12 77 24	C	A	E	C	D	B	F								B A 1	13DE7	12 61 29	F	E	A	B									D A 1		
12SK7	12 83 24	C	A	E	C	D	B	F								B A 1		88	A	B	F	E	C								C A 1		
12SK7	12 84 24	C	A	E	C	D	B	F								B A 1	13DF7	12 83 29	F	E	C	A	B									A A 1	
12SL7	12 95 24	F	C													A A 1		83	A	B	F	E	C								A A 1		
	95	E	F	C												A A 1	13DR7	12 64 29	F	E	A	B									D A 1		
12SN7	12 72 24	E	F	C												B A 1		94	A	B	F	E	C								B A 1		
	72	E	F	C												B A 1	13EM7	12 57 24	E	F	C		A	B							D A 1		
12SO7	12 99 24	C	E	C												A A 1		96	E	F	C		A	B							B A 1		
	85	C	C	F												B 1	13FD7	12 61 29	F	E	A	B									D A 1		
	85	C	C	F												B 1		87	A	B	F	E	C								A A 1		

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC			
13FG7	12 68 10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	14BF11	14 40 19	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
13FG7	80	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2																	
13FM7	12 94 23	A	.	.	.	.	.	C	E	F	B	B	A	A	1	14BL11	14 32 23	A	F	.	.	.	.	.	C	D	E	B	B	A	1		
13FR7	62	A	F	F	F	C	.	.	.	.	.	.	.	.	1																		
13FR7	12 60 29	F	E	A	B	.	.	C	.	.	.	.	.	.	1																		
13GB5	12 34 26	E	C	A	B	D	.	.	.	.	.	.	.	.	1	14BO11	14 68 23	A	F	D	C	E	D	.	C	F	D	E	C	B	B	A	1
13GF7	12 94 11	.	.	.	.	.	.	.	.	.	.	.	.	.	1	14BR11	14 52 28	A	E	D	D	.	.	.	.	F	B	B	A	1			
13J10	60	.	.	.	.	.	.	.	.	.	.	.	.	.	2																		
13J10	12 73 23	A	D	C	.	.	.	F	E	B	C	A	1		14C5	14 89 14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
13J10	95	A	.	F	B	D	E	C	1	14C7	14 88 27	A	E	D	C	.	E	C	B	B	A	1		
13J10	12 25 29	.	.	A	B	C	E	D	F	.	.	.	.	.	1	14E6	14 91 24	A	F	.	.	.	.	B	C	.	.	.	.	.	C	A	1
13J10	75	C	E	E	A	B	.	.	.	.	.	.	.	.	1																		
13J10	12 55 23	A	.	F	.	.	.	E	D	C	1	14E7	14 93 27	A	F	F	B	C	B	A	1		
13J10	79	A	F	E	D	C	1																					
13SJ7	12 83 24	C	A	C	E	C	D	B	F	1																					
13V10	12 60 19	1																					
13V10	99	2																					
13V10	12 73 23	A	D	C	.	.	.	F	E	B	C	A	1		14F7	14 93 27	A	C	F	E	.	.	.	B	.	.	.	.	.	.	A	A	1
13V10	95	A	.	F	B	D	E	C	.	.	.	.	.	.	1	14F8	14 62 27	A	.	C	F	B	E	.	.	.	.	.	.	.	B	A	1
14A4	14 62 27	A	F	.	.	E	C	B	1	14GT8	14 99 29	A	B	.	C	E	F	.	.	A	A	1		
14A5	14 35 27	A	F	D	.	E	C	B	1																					
14A7	14 80 27	A	F	D	C	.	E	C	B	1																					
14A7	12 70 27	A	C	F	E	.	.	B	.	.	.	.	.	.	1	14GW8	14 52 29	D	A	B	F	C	F	.	.	.	.	.	.	.	B	A	1
14A7	72	A	.	.	.	E	F	C	B	1																					
14B6	14 99 27	A	F	E	.	.	.	C	B	.	.	.	.	.	1	14H7	14 72 27	A	F	D	C	.	E	C	B	.	.	.	.	.	B	A	1
14B6	88	A	.	.	.	F	.	C	B	.	.	.	.	.	1	14J7	14 93 27	A	F	E	D	E	C	B	.	.	.	.	.	.	B	A	1
14B6	88	A	.	.	.	F	.	C	B	1																					
14B8	14 88 27	A	F	C	E	D	E	C	B	1																					

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC				
14JG8	14 88 29	C	A B	A B	A B	A B	A B	A B	C E F	C E F	C E F	C E F	C E F	C E F	C E F	A A 1	15BD11	15 50 23	A	F	A	F	A	F	A	F	A	F	A	F	A	F	B A 1				
14N6	14 88 27	C	F C A B	F C A B	F C A B	F C A B	F C A B	F C A B	B	B	B	B	B	B	B	B 1	15CW5	66	A	E	F	A	E	F	A	E	F	A	E	F	A	E	F	B A 1			
14Q7	14 88 27	A	F D E C E	F D E C E	F D E C E	F D E C E	F D E C E	F D E C E	C B	C B	C B	C B	C B	C B	C B	C A 1	15D08	15 57 29	A	F	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1			
14R7	14 84 27	A	F D E C E	F D E C E	F D E C E	F D E C E	F D E C E	F D E C E	C B	C B	C B	C B	C B	C B	C B	B A 1	15EA7	15 59 24	E	F	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1			
14S7	14 89 27	A	F D E C E	F D E C E	F D E C E	F D E C E	F D E C E	F D E C E	C B	C B	C B	C B	C B	C B	C B	B 1	15EW6	15 77 1	A	F	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1			
14V7	14 85 27	A	F D C E	F D C E	F D C E	F D C E	F D C E	F D C E	C B	C B	C B	C B	C B	C B	C B	B A 1	15FW7	15 68 29	F	E	A	B	A	F	C	A	B	A	F	C	A	B	A 1				
14W7	14 64 27	A	F D C E	F D C E	F D C E	F D C E	F D C E	F D C E	C B	C B	C B	C B	C B	C B	C B	B A 1	15FM7	15 94 28	A	E	F	A	E	F	A	E	F	A	E	F	A	E	F	B A 1			
14X7	14 92 27	A	F D C E	F D C E	F D C E	F D C E	F D C E	F D C E	C B	C B	C B	C B	C B	C B	C B	B A 1	15FY7	15 56 28	A	E	F	A	E	F	A	E	F	A	E	F	A	E	F	B A 1			
14Y4	14 18 27	A	F D C E	F D C E	F D C E	F D C E	F D C E	F D C E	C B	C B	C B	C B	C B	C B	C B	B 1	15HA6	15 23 9	A	F	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1			
14Y7	14 18 27	A	F D C E	F D C E	F D C E	F D C E	F D C E	F D C E	C B	C B	C B	C B	C B	C B	C B	B 1	15HB6	15 20 9	A	F	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1			
15A6	15 54 29	D	E C A B C F	E C A B C F	E C A B C F	E C A B C F	E C A B C F	E C A B C F	C B	C B	C B	C B	C B	C B	C B	B A 1	15KY8	15 55 25	E	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1				
15A8	15 53 24	A	E D C B	E D C B	E D C B	E D C B	E D C B	E D C B	C B	C B	C B	C B	C B	C B	C B	B A 1	15LE8	15 57 29	F	C	C	A	B	A	F	C	C	A	B	A	F	C	C	A	B	A 1	
15AB9	15 54 28	F	D E C A B	D E C A B	D E C A B	D E C A B	D E C A B	D E C A B	C B	C B	C B	C B	C B	C B	C B	B A 1	15MF8	15 60 23	A	F	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1			
15AF11	15 48 28	A	F D E C	F D E C	F D E C	F D E C	F D E C	F D E C	C B	C B	C B	C B	C B	C B	C B	B A 1	15M-P19	15 60 3	A	F	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1			
15B07	15 79 29	F	E C A B	E C A B	E C A B	E C A B	E C A B	E C A B	C B	C B	C B	C B	C B	C B	C B	B A 1	15MX8	15 80 26	C	A	B	A	F	C	A	B	A	F	C	A	B	A	F	C	A	B	A 1
15B07	83	C	A B F	C A B F	C A B F	C A B F	C A B F	C A B F	C B	C B	C B	C B	C B	C B	C B	B 1	16A5	16 52 29	E	D	A	B	A	F	C	A	B	A	F	C	A	B	A 1				
15B07	83	C	A B F	C A B F	C A B F	C A B F	C A B F	C A B F	C B	C B	C B	C B	C B	C B	C B	B 1	16A8	16 54 29	C	E	A	B	A	F	C	A	B	A	F	C	A	B	A 1				

17DM4

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC																
17DM4	17	11	18															1	17JZ8	17	55	23	A	F				E	D	C				B	C	E	1																
17D04	17	14	18															1		17	58	23	A	F												F	C	B	B	A	1												
17D06	17	65	24	A	D	E			B	C								D	17KV6	17	54	25	D	E	C	A	B										C	F		D	E	1											
17DW4	17	13	20															1	17KV6	17	56	26	E	D	A	B	F														C	D	1										
17EW8	17	65	7															1	17L6	17	47	14																															
17FY7	17	54	23	A	E	F			C									2	17LOB	17	56	25	E	D	A	B	F															D	A	1									
17GE5	17	65	23	A	D	E	C		F									1	17N8	17	85	29	D	E	C	A	B	F															C		B	A	1						
17GJ5	17	65	13															1		88																																	
17GT5	17	63	25	D	E	C	A	B		C	F							D	17R5	17	50	3																															
17GV5	17	55	21	A	D	E			B	C								1	17R-HH2	17	66	7																															
17GW6	17	62	24	A	D	E			B	C								D		65																																	
17GX5	17	48	21															1	17R-K19	17	40	29																															
17H3	17	14	29	C	F	A	B											1	17W6	17	52	14																															
17H-B25	17	59	26	E	A	B	D		C	C								D	17X-10	17	50	28	A	D	C																												
17HC8	17	62	29	C	E	A	B	F		D								C		90																																	
17H8	17	75	29	C	E	C	A	B		F	D							B	17Y9	17	20	28																															
17JB6	17	60	13															1		84																																	
17JF6	17	57	13															1	18A6	18	69	24	E	A	C	F																											
17JG6	17	56	25	D	E	C	A	B		C	F							D	18AJ10	18	62	19																															
17JK6	17	54	7															1		96																																	
17JM6	17	64	21															2	18AK5	18	63	1																															
17JN6	17	60	23	A	C	D	C		F									D	18A05	18	77	2																															
17JO6	17	79	29	F	D	A	B	C		E	E	C						D	18C51	18	60	29	A	C	E	F																											
17JRC	17	55	28	D	E	C	A	B		C	F							B	18DZ8	18	55	29	C	E	A	B	F	D																									
17JS6	17	56	21															1	18FW6	18	79	1																															
17JT6	17	65	28	D	E	C	A	B		C	F							D	18FX6	18	92	1																															

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		
18FY6	18	84	30	E	C	A	B			F								A	A	1																			
				D	A	B	F																																
				C	A	B	F																																
18GB6	18	84	20	E	C	A	B	D																															
18GD6	18	80	1																																				
18GE6	18	78	30	E	C	A	B																																
				C	A	B	F																																
				C	A	B	F																																
18GV5	18	55	21																																				
18GV8	18	42	20	A	B	F	D	C	E																														
18GV9	18	48	21	F	E	C	A	B																															
18HB8	18	54	29																																				
				F	C	F	A	B																															
18J6	18	60	30	F	A	B	E	C																															
18AL1	18	55	29	F	E	A	B																																
				A	B	F	C																																
19A3	19	11	30	A	B	F	C																																
19AJ6	19	85	29	D	E	C	A	B	F	E																													
				C	A	B	F	E																															
19A05	19	77	2																																				
19AU4	19	10	18																																				
19BV6	19	66	24	A	C	E	C	B	D																														
19BX6	19	76	9																																				
19BY7	19	62	9																																				
19C8	19	94	29																																				
				A	B	F	C																																
				F	A	B	E	C																															
19C63	19	11	12																																				
				F	C	A	B																																
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC			
19K68	19	73	29		A	B	F	D	C	E									21HD5	22	54	23	A	E	C	D	F													
19MR9	55			F	E	C	A	B											21HJ5	22	55	23	A	D	E	C	D	F												
19O9	19	73	1																21JS6	22	58	21																		
19T8	19	71	29	E	D	F	A	B	C	D									21JV6	22	53	23	A	C	D	C	F													
19U8	56																		21JZ6	22	54	21																		
19V8	19	90	29		A	B													21KA6	22	54	23	A	D	C	E	F													
19W8	58																		21KU6	22	43	26	E	C	D	A	B													
19X3	19	88	29	F	C	A	B	E											21LG6	22	53	23	A	C	E	F														
19X8	61																		21LR8	22	51	25	E	C	A	B	F	D												
19Y3	19	11	29																21LU8	22	76	23	A	F																
20A03	19	11	29																22AI3	22	11	29																		
20D1	19	62	30	F	A	B	C												22BH6	22	10	20																		
20E07	19	88	29	C	E	C	A	B	D	F									22BW3	22	13	12																		
20EW7	19	63	29	F	E	A	B												22DE4	22	13	18																		
20EZ7	19	89	29	A	B	C	E	F											22JF6	22	57	13																		
20LF6	19	48	21																22JG6	22	56	25	D	E	C	A	B													
21A6	22	85	29	E	D	A	B												22JR6	22	55	25	D	E	C	A	B													
21AK6	22	82	1																22JU6	22	56	13																		
21EX6	22	42	24	A	C	E	C	B	D										22KM6	22	55	13																		
21GY5	22	54	21																22KY6	22	54	25	D	E	C	A	B													
21HB5	22	54	23	A	D	E	C												23JS6	22	58	21																		
																			23MB6	22	57	21																		
																			23Z9	22	57	23	A	F	F															
																			24AX4	25	13	18																		
																			24BF11	25	53	19																		
																			24JE6	25	59	13																		
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC			

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
26A6	25	77	1																28HA6	30	23	9															
26A08	25	70	7																28HB6	30	64	28															
26B107	25	86	30																29GK6	30	40	9															
26C6	25	85	30																28KD6	30	43	26															
26D05	25	80	80																29LE6	30	52	26															
26E6	25	85	30																30A5	30	68	30															
26G05	25	93	1																30AE3	30	11	29															
26H05	25	58	24																30A01	30	59	23															
26J05	25	40	14																30C1	30	66	6															
26K05	25	56	25																30CW5	30	34	29															
26L05	25	40	24																30HD5	30	54	28															
26M05	25	47	21																30HJ5	30	55	23															
26N05	25	16	29																30JZ6	30	57	21															
27B18	25	74	6																30KD6	30	45	21															
27G05	25	34	26																30M-B6	30	47	21															
27K05	25	23	26																30M-P23	30	44	3															
27L05	25	48	21																30M-P27	30	38	3															
28A08	25	90	29																30P16	16	52	29															
28B05	25	58	58																31A110	30	54	23															
28C4	30	10	24																31J56	30	58	21															
28G05	30	34	26																31L88	30	51	26															
28H05	30	34	26																31L06	30	59	13															
28I05	30	34	26																31LZ6	30	54	13															
28J05	30	34	26																31M06	30	54	13															
28K05	30	34	26																31N06	30	54	13															
28L05	30	34	26																31O06	30	54	13															
28M05	30	34	26																31P06	30	54	13															
28N05	30	34	26																31Q06	30	54	13															
28O05	30	34	26																31R06	30	54	13															
28P05	30	34	26																31S06	30	54	13															
28Q05	30	34	26																31T06	30	54	13															
28R05	30	34	26																31U06	30	54	13															
28S05	30	34	26																31V06	30	54	13															
28T05	30	34	26																31W06	30	54	13															
28U05	30	34	26																31X06	30	54	13															
28V05	30	34	26																31Y06	30	54	13															
28W05	30	34	26																31Z06	30	54	13															
28X05	30	34	26																32A06	30	54	13															
28Y05	30	34	26																32B06	30	54	13															
28Z05	30	34	26																32C06	30	54	13															

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
32A8	30	54	29	C	E	A	B	F	D									C A 1
32E5	30	60	3	F	A	B												B A 1
32H07	30	60	3															
32L7	30	64	24	A	F	D	E	F	B	C								C A 1
33G17	30	60	23	C	A													C 1
33G77	30	61	23	A	F	C												C E D E B D E 1
33H7	30	65	29	A	F	C												B C 1
33J66	30	55	25	D	E	C	A	B										D E 1
33J66	30	53	23	A	C	D	C											F . . . E B D A 1
34G18	35	10	12															
34E3	35	11	12															
34G18	35	14	20															
34DK3	35	10	20															
34G15	35	57	3															
34R3	35	14	29															
35A6	35	56	27	A	F	D	E	F	B	C								C A 1
35B5	35	55	2															
35C5	35	54	3															
35C06	35	53	24	A	C	E	C	B	D									C E 1 Z
35D78	35	55	29	C	E	A	B	F	D									C A 1
35E48	35	57	3	E														A F 2
35G16	35	52	30	C	E	A	B	F										C A 1
35H88	35	54	29	A	B	D	E	F	C	E								C E 1
35L6	35	54	14	E	C	F	A	B										B A 1

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
50C5	50	44	3															1
50D6	50	45	14															2
50CA5	50	55	3															C 1
50CD6	50	63	24		A	C	E	D	B	D								Z
50DC4	50	12	30		A	B	F	C										C 1
50EB5	50	58	24		A	D	E	B	C									Z
50EH5	50	57	3															1
50FA5	50	64	3															1
50FE5	50	37	14															1
50FK5	50	88	3															1
50FY8	50	54	29		C	E	A	B	F	D								C A 1
50GY7	50	61	23		F	A	B			D	F							B A 1
50HC6	50	20	30		A	F	C			B								C 1
50HK6	50	54	30		C	E	A	B	D	F								B A 1
50HN5	50	44	29		C	E	A	B	F	D								C A 1
50JY6	50	55	24		A	D	E	B	C									D E 1
50L6	50	47	14															1
50X6	50	12	27		A	C	F			F	C	B						C 1
50Y6	50	13	24		A	F	C			B								C 1
50Y7	50	13	24		A	F	C			B								C 1
50Z6	50	14	24		A	F	C			B								C 1
50Z7	50	14	24		A	F	C			B								C 1
53HK7	50	58	23		A	F	C			B								C 1
			11		A	F	C			B								C 1

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC					
1622	6 63 14															1	5693	6 83 24	C	A	C	E	C	D	B	F					B	A	1					
1626	12 82 14															1	5725	6 77 1																				
1631	6 63 14															1	5726	6 62 30	F	A	B	C										B	1					
1632	12 47 14															1	5727	6 62 30	C	A	B												B	1				
1634	12 99 24		F	E		C	A	B								A	5727	6 14 30	E	C	A	B	C	F								B	C	1				
1635	6 94 24		F	E	C	A	B									A	5749	6 78 1																				
1852	6 94 24		A	F	E		B	C								B	5750	6 91 1																				
1853	6 60 24		C	A	C	E	C	D	B	F						B	5751	12 83 29	F	E	C	A	B											A	A	1		
2033	6 74 24		C	A	C	E	C	D	B	F						B	5763	6 82 29	F	D	A	B	D	C	E										C	A	1	
2050	6 60 30		F	A	B	E	C									B	5814	12 75 7																				
5591	6 12 24		A	F	E	C	B									B	5822	6 15 29	F	C	A	B													B	A	1	
5642	6 63 1		F	A	B	E	C									B	5824	25 48 14																				
5649	1 39 24		A													Y	5838	12 15 17																				
5651	12 92 14																See Note 2	5839	25 15 17																			
5654	1 95 30		F														5844	6 70 30	F	A	B	E	C												B	A	1	
5659	6 63 1																5852	6 70 30	F	A	B	E	C													B	A	1
5661	12 84 24		C	A	C	E	C	D	B	F						B	5871	6 15 17																				
5670	6 60 29		A	C	E	F										B	5879	6 79 14																				
5679	60		A														5881	6 63 14																				
5686	7 65 27		A	C	F												5915	6 92 1																				
5687	65		A														5920	6 49 30	F	A	B	E	C															
5691	6 84 29		C	E	C	A	B	D	F	C	D					C	5931	6 49 30	F	A	B	E	C															
5692	12 56 29		F	E	C	A	B									C	5932	6 63 14																				
5699	6 56 1		A	B	C	E	F									C		5	15	17																		
5699	6 95 24		E	F	C											A		5	15	17																		
5699	6 95 1		F	E	C	A	B									A		5	15	17																		
5699	6 72 24		E	F	C											A		6	63	14																		
5699	72		F	E	C	A	B									A		6	63	14																		
TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC					

TUBE	HT SEN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		
6159	25 57	24	C	A	D	E	E	B	B	B	B	B	B	C	E	1	Z	6386	6 81	29	A	C	E	F	B	B	B	B	B	B	C	A	1		
6180	6 72	24	E	F	C	A	B	A	B	A	B	A	B	B	A	1	Z	6414	12 55	7	A	F	F	E	C	B	B	B	B	C	A	1			
6186	6 80	1	B	B	B	B	B	B	B	B	B	B	B	B	B	1	Z	6417	6 65	29	F	C	A	B	D	C	E	C	A	1					
6187	6 87	1	B	B	B	B	B	B	B	B	B	B	B	B	B	1	Z	6483	12 85	29	F	C	E	A	B	C	E	C	A	1					
6188	6 85	24	E	F	C	A	B	A	B	A	B	A	B	B	A	1	Z	6485	6 65	29	F	C	E	A	B	C	E	C	A	1					
6189	12 75	7	B	B	B	B	B	B	B	B	B	B	B	B	B	1	Z	6516	6 58	30	E	C	A	B	F	C	D	B	A	1					
6197	6 45	29	C	E	D	A	B	F	C	B	A	B	A	B	B	2	Z	6520	6 73	30	E	C	A	B	F	C	D	B	A	1					
6198	12 75	7	B	B	B	B	B	B	B	B	B	B	B	B	B	1	Z	6550	6 35	24	E	F	C	A	B	C	E	C	A	1					
6201	12 74	7	B	B	B	B	B	B	B	B	B	B	B	B	B	2	Z	6627*	6 92	14	E	F	F	F	F	F	F	F	F	F	F	D	1		
6202	6 18	30	F	A	B	B	C	C	C	C	C	C	C	C	C	1	Z	6661	6 78	1	E	F	F	F	F	F	F	F	F	F	F	F	D	1	
6203	6 18	29	F	A	B	B	C	C	C	C	C	C	C	C	C	1	Z	6662	6 81	1	F	A	B	C	C	C	C	C	C	C	C	C	C	1	
6211	12 54	7	B	B	B	B	B	B	B	B	B	B	B	B	B	1	Z	6663	6 62	30	F	A	B	C	C	C	C	C	C	C	C	C	C	1	
6215	1 86	15	B	B	B	B	B	B	B	B	B	B	B	B	B	1	Z	6664	6 83	30	F	A	B	E	C	C	C	C	C	C	C	C	C	1	
6216	6 50	29	F	E	C	A	B	D	D	D	D	D	D	D	D	1	Z	6669	6 77	2	C	A	B	E	C	C	C	C	C	C	C	C	1		
6227	6 53	9	B	B	B	B	B	B	B	B	B	B	B	B	B	1	Z	6676	6 64	1	E	F	F	F	F	F	F	F	F	F	F	F	D	1	
6265	6 89	1	B	B	B	B	B	B	B	B	B	B	B	B	B	1	Z	6677	6 45	29	C	E	D	A	B	F	C	B	A	1					
6267	6 96	28	D	C	A	B	F	C	E	C	E	C	E	C	E	1	Z	6678	6 79	6	E	F	F	F	F	F	F	F	F	F	F	F	F	2	
6336	6 60	24	E	F	C	A	B	A	B	A	B	A	B	A	B	1	Z	6679	12 74	7	E	F	F	F	F	F	F	F	F	F	F	F	F	2	
6360	12 65	29	F	C	E	A	B	C	C	C	C	C	C	C	C	1	Z	6680	12 75	7	E	F	F	F	F	F	F	F	F	F	F	F	F	2	
6360	6 65	29	F	C	E	A	B	F	C	E	C	E	C	E	C	1	Z	6681	12 89	29	F	E	C	A	B	C	E	C	A	1					
6384	6 75	29	F	C	E	A	B	F	C	E	C	E	C	E	C	1	Z	6686	6 89	1	F	E	C	A	B	E	C	C	A	1					
6384	6 85	24	C	F	D	A	E	B	D	F	D	F	D	F	D	1	Z	6687	6 60	9	E	F	F	F	F	F	F	F	F	F	F	F	1		
TUBE	HT SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC

TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC						
6688	6	66	29	C	E	A	B	F	C	D				B	A	1	7058	12	89	29	F	E	C	A	B							A	A	1					
6689	6	53	29	D	F	C	A	B	F					B	A	1	7059	12	79	6													A	A	1				
6829	12	54	7														7060	12	55	29																			
6831*	1	99	30	E			F							E	D	1	7061	12	64	29	D	C	A	B	E	C	F												
6888	12	57	24	C	A	D	E	B						C	E	1	7062	12	54	7																			
6887	6	65	30	F	A	B	C										7065	12	45	24	E	F	C		A	B													
6888	6	62	24	C	A	C	E	C	D	B	F						7119	12	56	29	F	E	C	A	B														
6900	12	55	29	F	E	C	A	B						C	A	1	7167	12	56	29	F	E	C	A	B														
6918	6	60	30				A	B	C	E	F			C	A	1	7189	6	39	29	E	C	A	B															
6922	6	60	30	F	A	B	C										7199	6	74	29	F	E	C	A	B														
6922	6	24	7	C	A	B											7217	6	57	24	C	A	B																
6939	12	60	29														7233	6	55	29																			
6966	6	63	1	E	C	A	B	F	D					B	A	1	7247	12	76	29	F	E	C	A	B														
6973	6	60	29	E	C	A	B	F	D								7258	12	62	29																			
7000	6	96	24	D	E	A	B	C	F					B	E	1	7308	6	23	7																			
7025	12	89	29	A	F	D	C	B						A	A	1	7316	12	75	7																			
7027	6	67	24	F	E	C	A	B									7320	6	40	29	D	E	C	A	B														
7036	6	92	1	D	A	F	E	B	C					C	A	1	7355	6	57	24	A	F	C	E	B	D													
7044	12	55	29	F	E	C	A	B									7357	25	67	24	C	A	D	E	B														
7054	12	42	9														7360	6	80	29	C	D	E	A	B	F	D												
7055	12	62	30	F	A	B	C										7360	6	80	29	C	D	E	A	B	F	D												
7056	12	84	1	C	A	B											7360	6	80	29	C	D	E	A	B	F	D												
7057	12	53	7														7360	6	80	29	C	D	E	A	B	F	D												
7057	6	53	7														7360	6	80	29	C	D	E	A	B	F	D												
TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SEN SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC						

* INDICATES GOOD OVER 40

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
7370	40	75	7															1
																		1
7408	6	80	14															2
																		1
7543	6	85	1															1
																		1
7551	15	59	29	C	E	D	A	B	F	C								C A 1
																		C A 1
7558	6	59	29	D	E	D	A	B	F	C								C A 1
																		C A 1
7581	6	64	14															1
																		1
7585	6	67	22	E	E	E												B F 2
																		B F 2
7587	6	55	22	D	E													B A 1
																		B A 1
7601	6	81	24	A	F	D	D	E	B									C A 1
																		C A 1
7607	6	56	24	A	D	E	C	B										C A 1
																		C A 1
7643	6	72	5															1
																		1
	55																	2
7687	6	77	6															1
																		1
7688	6	75	26	C	E													2
																		2
7689	75			C														1
																		1
	75			E	D	A	B	F	C									B A 1
																		B A 1
7689	6	89	23	C	E													B A 1
																		B A 1
	89			C														F A A 1
																		F A A 1
	83			E	C	A	B	F	C									A A 1
																		A A 1
7690	6	74	23	C	E													B A 1
																		B A 1
	74			C														B A 1
																		B A 1
7693	6	93	1															1
																		1
7694	6	84	1															1
																		1
7695	50	58	29	D														D A 1
																		D A 1
7699	12	45	29	E	C	A	B	F	D									B A 1
																		B A 1
	45			C	E	A	B	F	D									B A 1
																		B A 1
7701	14	89	29	C	E	A	B	F	D									B A 1
																		B A 1
	12	53	8															1
																		1
7716	12	53	8															2
																		2
	90																	2
																		2
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC

TUBE	HT	SENSKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SENSKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC				
8106	14	51	29	F	C	D	A	B	C	E	D	C	.	.	.	B	A	1	EAF801	6	75	29	D	E	C	A	B	F	C	.	C	.	B	A	1				
8113	6	58	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	EC11800	6	99	29	F	E	.	A	B	.	C	.	.	.	.	B	C	1	
8136	6	65	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.						
8149	12	58	23	A	C	.	D	.	F	.	E	.	B	D	E	.	.	.																					
8150	12	56	23	A	C	.	D	.	.	.	E	.	B	D	E	1	Z																						
8168	14	58	23	A	C	F	.	.	D	.	E	.	B	D	E	1	Z																						
8233	6	12	26	F	C	D	A	B	.	C	E	C	.	.	.	B	E	1	EL509	6	40	26	E	C	D	A	B	.	C	.	.	.	C	E	1	Z			
8255	6	50	29	F	C	.	A	B	.	F	.	.	.	.	.	B	A	1	EX82	6	11	29	F	.	C	A	B	.	F	.	.	.	.	.	.	C	1
8278	6	16	26	D	C	E	A	B	C	E	F	.	.	.	.	C	A	1	KT88	6	43	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
8298	6	57	24	C	A	D	.	E	.	B	.	.	.	.	.	C	E	1	PL98	4	88	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
8393	12	57	22	F	.	E	.	.	C	.	A	.	B	B	F	2		PL509	40	40	26	E	C	D	A	B	.	C	C	E	1	Z	
8417	6	55	14	PL805	17	22	29	F	.	D	A	B	F	.	C	B	A	1	
8425	6	82	1	TJ880	6	45	29	C	E	C	A	B	.	F	C	A	1	
8426	12	82	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	UAA91	19	62	30	F	.	A	B	C	.	F	.	.	.	.	.	.	B	1
8458	14	66	25	E	C	.	A	B	F	D	.	.	.	.	.	C	A	1		62			C	.	A	B	.	F	.	.	.	.	.	.	.	B	1
8552	12	57	24	C	A	D	.	E	.	B	C	E	1	UC92	9	83	30	F	.	A	B	F	.	C	B	A	1	
8559	6	20	29	F	C	.	A	B	.	F	B	A	1	UCC84	22	65	29	C	E	F	A	B	C	A	1	
8908	6	40	24	C	D	C	E	.	A	B	C	E	1		65			C	.	A	B	F	.	C	C	A	1	
8950	12	45	21	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	UCF80	25	74	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
9001	6	93	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.						
9002	6	83	30	F	C	A	B	F	E	C	B	A	1	UF86	12	96	29	D	.	C	A	B	F	.	C	E	B	A	1	
9003	6	95	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	UY82	50	10	29	F	.	C	A	B	.	F	.	.	.	.	.	.	C	1
9006	6	40	30	F	C	A	B	F	.	C	.	.	.	.	.	C	1		X107	19	91	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
DC90	1	99	30	A	F	.	E	.	B	.	.	.	.	.	.	B	F	2																			
DH77	19	85	30	E	C	A	B	.	F	.	.	.	.	.	.	A	A	1																			
	88			C	A	B	F	.	F	.	.	.	.	.	.	B	1																				
	88			C	A	B	F	.	F	.	.	.	.	.	.	.	B	1																			
E18266	6	56	29	F	E	C	A	B	.	F	.	.	.	.	.	C	A	1																			
	56			A	B	F	.	C	C	A	1
																								
TUBE	HT	SENSKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SENSKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC				

FOREIGN TUBE TYPES NOT LISTED IN CHART VERSUS AMERICAN TUBE TYPES LISTED

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
1C1	1R5	6T1	6AF4	ARR1	6L7	DD7	6AM5		
1C2	1AC6	6Z4	6X4	ARP15	6K7	DD77	6AL5		
1C3	1AB6	7D9	6AM5	ARP16	6J7	DDR7	6AM5		
1D13	1A3	7D10	6CH6	ARP17	6F6	DF26	1S5		
1H35	1AB6	7D11	6550	ARP32	6V6	DF33	1N5		
1P1	3C4	8D3	6AM6	ARP33	6V6	DF91	1T4		
1RK23	1S2	8D5	5879	ARTH/1	6K8	DF92	1L4		
5A/160H	6AM6	8D6	6BX6	AU13	5Y3	DF96	1AJ4		
6AT7N	6DT8	9D6	6CQ6	AZ32	5Y3	DF97	1AN5		
6C12	6AJ8	10L14	26A08	B36	12SN7	DF904	1U4		
6C16	6BL8	10LD13	15BD7	865	6SN7	DH63	607		
6C18	6GV7	10P18	45B5	B139	7AN7	DH74	12Q7		
6CC31	6J6	12E13	6550	B152	12AT7	DH76	12Q7		
6CC42	5670	13D2	6SN7	B309	12AT7	DH77	6AT6		
6CC43	6A08	16A	6AM5	B319	7AN7	DH149	7C6		
6CH40	6AJ8	198D	19X3	B329	12AU7	DH710	6T8		
6D1	6DR4	19SU	19Y3	B339	12AX7	DH719	6T8		
6D2	6AL5	19U3	19X3	B719	6A08	DK32	1A7		
6E8	6A8	19W3	19X3	BPM04	6A05	DK91	1R5		
6F11	6AM6	20D4	6AJ8	C610	7J7	DK92	1AC6		
6F12	6AM6	30C18	76V7	CC81E	12AT7	DK96	1AB6		
6F19	6BY7	30FL1	96B8	CCA	6922	DK97	1AB6		
6F21	6CQ6	30P18	15CW5	DZM9	6AL5	DL29	3D6		
6F22	6267	30PL12	16A8	D63	6H6	DL31	1A5		
6F23	6EH7	40SUA	1D5	D77	6AL5	DL33	305		
6F26	6BY7	52KU	5Z4	D152	6AL5	DL35	1C5		
6F29	6EH7	63T1	6AB8	D193	3A4	DL36	105		
6F30	6EJ7	63TP	6AB8	DA90	1A3	DL37	6L6		
6F32	6AK5	150C3	0D3	DAC21	1S5	DL91	1S4		
6F35	6AJ5	163PEN	16A5	DAC32	1H5	DL92	3S4		
6L13	12AX7	171DDP	17C8	DAF90	1A3	DL93	3A4		
6L16	6CW7	A863	6J7	DAF91	1S5	DL94	3V4		
6L31	6AD5	A1834	6AS7	DAF92	1U5	DL95	304		
6L34	6AD4	AA91E	6AL5	DAF96	1AH5	DL96	3C4		
6P9	6BM5	ABC91	12A6	DAF97	1AN5	DP61	6AK5		
6PL12	6BM8	AR18	607	DCC90	3A5	DY30	1B3		
608	6A8	ARDD3	6H6	DD6	6AL5	DY70	5642		

	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
DY80		1AX2	E2163	12AU7	ECC40	6N7	ECH84	6JX8		
DY86		1S2	E2164	12AX7	ECC81	12AT7	ECH200	6V9		
DY87		1S2	EAA91	6AL5	ECC82	12AU7	ECL80	6AB8		
DY802		1B02	EAA171	6AL5	ECC83	12AX7	ECL82	6BM8		
E55L		8233	EAA901	6AL5	ECC84	6CW7	ECL84	6DX8		
E80CC		6085	EAA901S	6AL5	ECC85	6A08	ECL85	6GV8		
E80CF		7643	EABC80	6AK8	ECC86	6GM8	ECL86	6GW8		
E80F		6084	E834	6H6	ECC88	6DJ8	ECL821	6CH6		
E80L		6227	EB91	6AL5	ECC89	6FC7	ED2	6AL5		
E81CC		12AT7	EB03	68D7	ECC91	6J6	ED500	6ED4		
E81L		6886	EB080	68D7	ECC180	68Q7	EF5	6DA6		
E82CC		12AU7	EB081	68D7	ECC186	12AU7	EF13	6DA6		
E83CC		12AX7	EB090	6AT6	ECC189	6ES8	EF22	757		
E83F		6889	EB091	6AV6	ECC230	6080	EF36	6J7		
E84L		7320	EBF32	688	ECC801	12AT7	EF80	6BX6		
E88C		8255	EBF80	6N8	ECC801S	12AT7	EF82	6CH6		
E88CC		6DJ8	EBF83	6DR8	ECC802	12AU7	EF85	6BY7		
E90C		5920	EBF85	6DC8	ECC802S	12AU7	EF86	6267		
E90CC		5920	EBF89	6DC8	ECC803	12AX7	EF87	6CF8		
E90F		7693	EC22	6R4	ECC803S	12AX7	EF89	6DA6		
E90Z		6X4	EC80	6Q4	ECC804	6GA8	EF91	6AM6		
E91AA		6AL5	EC81	6R4	ECC808	6KX8	EF92	6C06		
E91H		6887	EC84	6AJ4	ECC813	6463	EF93	6BA6		
E91N		5727	EC86	6CM4	ECC863	12DT7	EF94	6AU6		
E92CC		6J6	EC88	6DL4	ECC900	6HA5	EF95	6AK5		
E95F		6AK5	EC90	6C4	ECC960	5920	EF96	6AG5		
E99F		7694	EC91	6A04	ECF80	6BL8	EF98	6ET6		
E180CC		7062	EC92	6AB4	ECF82	6J8	EF183	6EH7		
E180F		6888	EC94	6AF4	ECF86	6HG8	EF184	6EJ7		
E182CC		7119	EC95	6ER5	ECF200	6X9	EF190	6CB6		
E188CC		7308	EC97	6FY5	ECF201	6U9	EF804	6F40		
E280F		7722	EC806S	6CM4	ECF202	6AJ9	EF812	6EL7		
E810F		7788	EC900	6HA5	ECF801	6GJ7	EF861	6688		
E902		6X4	EC8010	8556	ECF802	6JW8	EF905	6AK5		
E1485		3A4	ECC32	6SN7	ECF805	6GV7	EFL200	6Y9		
E2016		6C06	ECC33	6SN7	ECH81	6AJ8	EH90	6CS6		
E2157		12AT7	ECC35	6SL7	ECH83	6DS8	EK90	6BE6		

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
EL32	6V6	EY88	6AL3	HP6	6AM6	LL521	21K06
EL33	6V6	EY500	6EC4	HY90	35W4	LL802	10LD6
EL34	6CA7	EZ3	6V4	HY145	1U4	LN119	50BM8
EL35	6Y6	EZ4	6CA4	HZ90	12X4	LN152	6AB8
EL36	6CM5	EZ11	6V4	KK32	1C7	LN309	16A8
EL37	6L6	EZ22	7Y4	KT32	25L6	LY81	11R3
EL38	6CN6	EZ35	6X5	KT33	25A6	LY88	20A03
EL81	6CJ6	EZ80	6V4	KT63	6F6	LY500	28EC4
EL82	6DY5	EZ81	6CA4	KT66	6L6	LZ319	8A8
EL83	6CK6	EZ90	6X4	KT71	50L6	LZ329	9A8
EL84	6B05	EZ91	6CA4	KT77	6CA7	M8063	6AM6
EL85	6BN5	EZ900	6X4	KT88	6550	M8079	5726
EL86	6CW5	G180ZM	0D3	KTZ63	6J7	M8081	6J6
EL90	6AQ5	GY501	3BH2	L63	6C5	M8096	5753
EL91	6AM5	6Z30	5Z4	L63B	6C5	M8100	6AK5
EL95	6DL5	6Z32	5V4	L77	6C4	M8136	12AU7
EL180	12BY7	6Z34	5AR4	LC97	3ER5	M8137	12AX7
EL500	6GB5	H52	5AS4	LC900	3HA5	M8162	12AT7
EL503	8278	H63	6F5	LCC189	5ES8	M8196	5725
EL504	6GB5	HAA91	12AL5	LCF80	6LM8	M8212	5726
EL505	6KG6	HABC80	19T8	LCF86	5HG8	M8232	6J4
EL508	6GW6	HBC90	12AT6	LCF200	5X9	M8245	8005
EL509	6KG6	HBC91	12AV6	LCF201	5U9	MV6/5	6SA7
EL802	6LD6	HCC85	17EW8	LCF801	5GJ7	N14	1C5
EL803	6CK6	HCH81	12AJ7	LCF802	6LX8	N15	305
EL820	6CJ6	HD14	1H5	LCH200	5V9	N16	305
EL821	6CH6	HD93	1X2	LCL80	4AB8	N17	3S4
EL822	6CH6	HD94	6B06	LCL82	11BM8	N18	304
EL861	6886	HD96	25B06	LCL84	10DX8	N19	3V4
ELF86	6HG8	HF93	12BA6	LCL85	10GV8	N25	3C4
ELL80	6HU8	HF94	12AU6	LCL200	11Y9	N47	6AM5
EN91	2D21	HK90	12BE6	LF183	4EH7	N77	6AM5
E080	6BE7	HL86	30CW5	LF184	4EJ7	N119	45B5
EY81	6R3	HL90	19A05	LFL200	11Y9	N144	6AM5
EY81F	6V3	HL92	50C5	LL86	10CW5	N152	21A6
EY86	6S2	HL94	30A5	LL500	18GB5	N153	15A6
EY87	6S2	HM04	6BE6	LL505	27K66	N154	16A5

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
N155	6BN5	PC82	3AB4	PL505	40KG6	OS2406	12AT7		
N308	25E5	PC95	4GK5	PL508	17KW6	OV03/12	5763		
N309	15A6	PC97	3FY5	PL509	40KG6	OV06/20	6146		
N329	16A5	PC900	4HA5	PL521	19K06	OV06/20B	6883		
N359	21A6	PCC84	7AN7	PL802	16LD6	OV06/20C	6159		
N369	16A8	PCC85	9A08	PL820	21A6	OV77	6C06		
N378	15CW5	PCC88	7DJ8	PLL80	12HU8	OZ77	6AM6		
N379	15CW5	PCC89	7FC7	PM04	6BA6	R52	5Z4		
N709	6B05	PCC186	7AU7	PM05	6AK5	R144	6AM6		
N727	6A05	PCC189	7ES8	PM07	6AM6	RS2	5Z4		
NCC189	4ES8	PCF80	9A8	PM95	6AK6	RS1029	6AM6		
NR67	6L7	PCF82	8U8	PY80	19X3	SN7	1B3		
NR78	6C5	PCF86	7HG8	PY81	17Z3	SP6	6AM6		
NR78A	6J5	PCF200	8X9	PY82	19Y3	T2M05	6J6		
NR81	6K7	PCF201	8U9	PY88	30AE3	TM12	6J4		
NR83	6J7	PCF801	8GJ7	PY93	17Z3	TS51	6AK5		
NR85	8F6	PCF802	9JW8	PY500	4ZEC4	TS52	6J6		
NR95	25L6	PCF805	7GV7	PY800	17Z3	TS229	5687		
NU20	5Y3	PCF806	8GJ7	PY801	17Z3	TS876C	12BY7		
OBC3	12S07	PCH200	9V9	QA2401	6C4	TTZ63	6J7		
OF1	6S7	PCL82	16A8	QA2404	6AL5	U2M70	6X4		
OF5	12K7	PCL84	15DQ8	QA2406	12AT7	U26	6S2		
OH4	12A8	PCL85	186V8	QA2407	6X4	U31	25Z4		
OM6	6K7	PCL86	146W8	QA2408	6SN7	U37	1T4		
OSW2190	6AC7	PO500	3ED4	QE03/10	5763	U49	6S2		
OSW2192	6AG7	PF9	6K7	QE05/40	6146	U50	5Y3		
OSW2600	6AC7	PF86	4HR8	QE05/40H	6159	U51	5V4		
OSW2601	6AG7	PFL200	16Y9	QL77	6C4	U52	5U4		
OSW3105	6S07	PH4	6A8	QM328	5686	U54	5R4		
OSW3106	6V6	PL36	25E5	QM556	6X4	U70	6X5		
OSW3108	6L6	PL81	21A6	QM557	6AK5	U74	35Z4		
OSW3109	6H6	PL82	16A5	QM558	6AS6	U76	35Z4		
OSW3111	6SK7	PL83	15A6	OM559	6AL5	U78	6X4		
OSW3112	6J5	PL84	15CW5	QDE03/12	6360	U82	7Y4		
PABC80	9AK8	PL86	146W8	QDV03/10	6360	U119	38A3		
PC86	4CM4	PL500	27GB5	QS150/40	003	U147	6X5		
PC88	4DL4	PL504	28GB5	QS2404	5726	U149	7Y4		

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THANKS AGAIN AND PLEASE TAKE THE TIME TO VISIT OUR STORE.

ATTENTION! EVERYTHING ON SALE NOW!!



HOT SALE!

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FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
U152	19X3	VT52	6K6	X18	1AC6	XF183	3EH7		
U153	17Z3	VT65	6C5	X20	1AC6	XF184	3EJ7		
U154	19Y3	VT66	6F6	X25	1AB6	XL36	13CM5		
U192	19Y3	VT74	5Z4	X61(M)	6K8	XL84	8B05		
U193	17Z3	VT86	6K7	X63(M)	6A8	XL86	8CW5		
U250	17Z3	VT87	6L7	X64	6L7	XL500	13GB5		
U349	17Z3	VT88	6R7	X71(M)	12K8	XXA91	3AL5		
U381	38A3	VT90	6H6	X73(M)	6A8	XXD	14AF7		
U707	6X4	VT91	6J7	X76(M)	12K8	XXFM	7X7		
U709	6CA4	VT93	6B8	X77	6BE6	XXL	7A4		
UABC80	28AK8	VT94	6J5	X81	7S7	XY88	16A03		
UBC81	15B07	VT96	6N7	X107	18FX6	YC95	3ER5		
UBF80	17C8	VT97	5W4	X119	19D8	YC97	3FY5		
UC92	9AB4	VT99	6F8	X148	7S7	YCC189	5ES8		
UCC85	26A08	VT102	6K6	X150	6C10	YCF86	5HG8		
UCH80	14Y7	VT103	12S07	X155	6BZ8	YCL180	5B07		
UCH81	19D8	VT105	6SC7	X719	6AJ8	YF183	4EH7		
UCL82	50BM8	VT107	6V6	X727	6BE5	YF184	4EJ7		
UF80	19BX6	VT112	6AC7	XAA91	3AL5	YL84	10B05		
UF85	19BY7	VT114	5T4	XB91	3AL5	YL86	10CW5		
UF89	12DA6	VT115	6L6	XC95	2ER5	YL1370	6146		
UL84	45B5	VT116	6SJ7	XC97	2FY5	YL1371	6883		
UU12	6CA4	VT117	6SK7	XC900	2HA5	YL1372	6159		
UY82	55M3	VT124	1A5	XCC82	7AU7	Z14	1N5		
UY85	38A3	VT125	1C5	XCC189	4ES8	Z63	6J7		
UZM70	6X4	VT126	6X5	XCF80	4BL8	Z77	6AM6		
V177	6C06	W17	1T4	XCF82	5U8	Z152	6BX6		
V741	6C4	W25	1AJ4	XCF86	5HG8	Z19	6BX6		
V884	6C06	W77	6C06	XCF801	4GJ7	Z29	6267		
V886	6AM5	W149	7B7	XCH81	3AJ8	Z49	6EL7		
VP6	6C06	W719	6BY7	XCL82	8B8	ZD17	1S5		
VP12D	12C8	W727	6BA6	XCL84	8DX8	ZD25	1AH5		
VP1321	9006	WD709	6N8	XCL85	9GV8	ZD151	6N8		
VR75	0A3	WT210-0001	2D21	XF80	3BX6	ZD152	6N8		
VR90	0B3	WT606	2D21	XF85	3BY7				
VR105	0C3	X14	1A7	XF86	2HR8				
VR150	0D3	X17	1R5	XF94	3AUG				