

**SETUP
CHART**

BK MODEL 747

DYNA-JET

**SOLID STATE
DYNAMIC MUTUAL CONDUCTANCE**

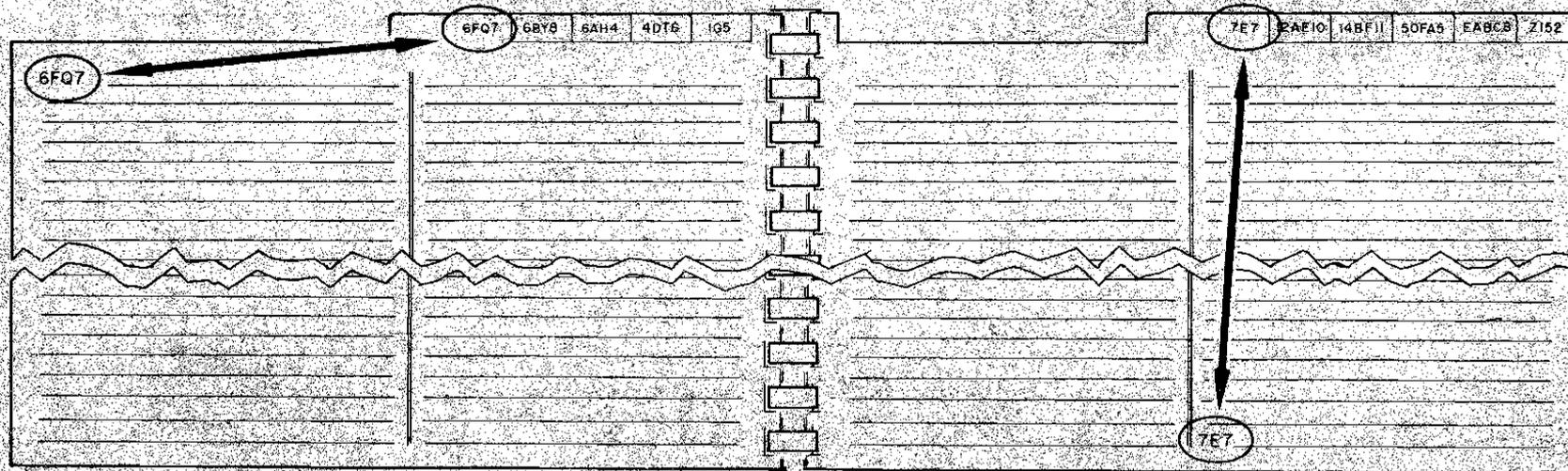
TUBE TESTER



Product of DYNASCAN CORPORATION
1801 West Belle Plaine Avenue, Chicago, Illinois 60613

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 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.

TEST 1 Tube defective if meter reads bad on the BAD?-GOOD scale of the meter, unless tube chart indicates otherwise. (EX. Good over 40). Some low voltage tubes use TEST 2 (Refer to tube chart Column TB [Test Button]).

TEST 2 Same as TEST 1 for dual tubes when tested in the Jet check section. Also used for low voltage tubes when tested in the programmed section. As above refer to tube chart column TB.

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	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C													
0A2	1	99	30		E			F								E	D	1		1B2*	1	22	24	A													1	Y														
0A3	1	95	24		E			F								E	D	1																																		
0B2*	1	99	30		E			F								E	D	1		1BK2*	1	34	29			A	B											1	Y													
0B3	1	75	24		E			F								E	D	1		1BL2*	1	52	24	A																												
0C2	1	99	30		E			F								E	D	1																																		
0C3	1	90	24		E			F								E	D	1		1BQ2*	1	24	29			A	B												1	Y												
0D3	1	82	24		E			F								E	D	1		1BV2*	1	22	24	A																1	Y											
0Z4	6	18	24				F				E					E	D	1																																		
		18						F			E					E	D	1		1BX2*	1	34	29			A	B													1	Y											
1A3	1	99	30	A	F	C				B										1BY2*	1	71	16																	1	Y											
				Good Over 15																																																
1A6	1	89	24		A	F	D	E		B						D	C	1		1C5	1	99	24			A	F	D	E		B										D	C	1									
1A7	1	99	24		A	F	F	E	F	B						A	C	1	G	1C7	2	91	24			A	F	F	E	F	B												B	C	1	G						
1AB6*	1	99	30	A	F	F	E	D	E	B						A	C	2		1D5	2	89	24			B	F	D		A													B	A	1	G						
1AC6	1	99	30	A	F	D	E	D	C	B						A	C	1		1D7	2	91	24			A	F	F	E	F	B													B	C	1	G					
1AD2*	1	71	16																	1D8	2	99	24			B	F			A																						
1AF4	1	99	30	A	F	F			E	B						A	F	2		1DG3*	1	71	24			A				B															1	Y						
				Good Over 60																																																
1AH5	1	99	30	A			D	F	E	B						A	F	2		1DK1*	1	71	24	A					B																							
		99		A						B										1DK27*	1	71	24	A					B																							
1AJ2*	1	53	16																																																	
1AJ4	1	99	30	A	F	D			E	B						A	C	1		1DK29*	1	71	24	A					B																							
1AN5	1	96	30	A	F	D	C		E	B						A	C	1																																		
1AU2*	1	52	29	F				A	B											1DN5	1	99	30	A	F	D			E	B																A	C	1				
1AU3*	1	71	15																	1DY4	1	61	30	F	E	A	B	C																			B	F	2			
1AX2*	1	64	29					A	B											1E4	1	89	24			A	F			E	B																	B	F	2		
1AY2*	2	34	24	A							B									1E5	2	89	24			B	F	D		A																		B	A	1	G	
				See Note 2																																																
1B3*	1	34	15																	1E7	2	80	24			A	F	E		B	D																		B	A	1	
1B7	1	88	24		A	F	D	E	C	B						A	C	1	G	1F1	1	99	30	A	F	D			E	B																			A	C	1	
1BC2*	1	22	29					A	B											1F2	1	85	30	A	F	D			E	B																			A	C	1	
																				1F3*	1	89	30	A	F	F			E	B																				A	F	2

* INDICATES GOOD OVER 40

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					
1F5	2	85	24	.	A	F	D	E	.	B	C	E	1		1LC6	1	99	27	A	F	F	E	C	E	.	B	A	F	2						
	2	84	24	.	A	F	.	F	.	B	B	F	2	G					Good Over 10																				
		99		.	A	.	F	F	.	B	B	1			1LD5	1	99	27	A	F	F	.	E	.	B	A	F	2							
1FD1	1	99	30	A	.	.	D	F	E	B	.	.	.	.	.	A	F	2				90	A	.	F	.	E	.	B	.	.	.	.	B	1	
		99		A	.	F	.	.	.	B	B	1		1LE3	1	99	27	A	F	.	.	E	.	B	B	F	2							
1FD9	1	99	30	A	.	.	D	F	E	B	.	.	.	.	.	A	F	2		1LG6	1	99	27	A	F	F	C	E	.	B	.	.	.	B	F	2			
		99		A	.	F	.	.	.	B	.	.	.	.	.	.	B	1		1LH4	1	99	27	A	F	.	.	E	.	B	.	.	.	A	F	2		
1G3	1	34	16	1	Y				Good Over 30																					
1G4	1	99	24	.	A	F	.	E	.	B	.	.	.	.	.	B	F	2				95	A	.	F	.	.	B	.	.	.	.	B	1		
1G8	2	85	24	.	A	F	D	E	.	B	.	.	.	.	.	C	E	1		1LN5	1	99	27	A	F	D	C	E	.	B	.	.	.	A	C	1			
1G6	1	99	24	.	A	F	E	.	.	B	.	.	.	.	.	A	A	1		1N2*	1	34	15	.	.	.	.	.	.	.	.	.	.	.	1	Y
		99		A	.	.	E	F	.	B	.	.	.	.	.	A	A	1		1N5	1	99	24	.	A	F	F	.	B	.	.	.	A	F	2	G			
1H2*	1	34	29	.	.	.	A	B	1	Y				Good Over 50																					
1H4	2	99	24	.	A	F	.	E	.	B	.	.	.	.	.	B	F	2		1N6	1	99	24	.	A	F	F	E	.	B	.	.	B	F	2				
1H5	1	99	24	.	A	F	.	.	.	B	.	.	.	.	.	A	F	2	G			99	.	A	.	.	F	.	B	.	.	.	B	1					
		95		A	.	F	.	.	.	B	B	1					Good Over 50																					
1H6	2	91	24	.	A	F	.	E	.	B	.	.	.	.	.	B	A	1		1P5	1	99	24	.	A	F	D	.	B	.	.	.	A	C	1	G			
		90		A	.	F	.	.	.	B	B	1					Good Over 50																					
		90		A	.	.	F	.	.	B	.	.	.	.	.	.	B	1		1P10	3	53	30	A	F	E	D	.	B	.	.	.	C	C	1			
1J3	1	71	15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	Y	1P11	3	59	30	A	F	D	.	E	.	B	.	.	D	C	1	
1J5	2	80	24	.	A	F	F	E	.	B	.	.	.	.	.	B	A	1		1Q5	1	80	24	.	A	F	D	E	.	B	.	.	C	C	1				
1J6	2	77	24	.	A	F	E	.	.	B	.	.	.	.	.	A	A	1		1R4	2	87	27	A	.	F	.	.	B	.	.	B	1						
		77		A	.	.	E	F	.	B	.	.	.	.	.	A	A	1		1R5	1	99	30	A	F	F	E	.	F	B	.	.	A	C	1				
1K3*	1	71	15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	Y	1RK31*	1	50	29	.	.	.	A	B	.	.	.	.	.	.	1	Y
1L4	1	85	30	A	F	D	.	E	.	B	.	.	.	.	.	A	C	1		1RK41*	1	53	29	.	.	.	A	B	.	.	.	.	.	.	1	Y
1L6	1	99	30	A	F	F	E	F	F	B	.	.	.	.	.	C	F	2		1S2	1	34	29	.	.	.	A	B	.	.	.	.	.	.	1	Y
				Good Over 20																1S4*	1	99	30	A	F	E	F	.	B	.	.	B	F	2										
1LA4	1	99	27	A	F	F	.	E	.	B	.	.	.	.	.	B	A	2		1S5*	1	99	30	A	.	F	F	E	.	B	.	.	A	F	2				
1LA6	1	99	27	A	F	C	E	D	C	.	B	.	.	.	.	A	B	1				99	A	.	F	.	.	B	.	.	B	1								
				Good Over 20																1SA6	1	99	24	.	A	G	E	.	F	B	.	.	A	F	2									
1LB4	1	99	27	A	F	F	.	E	.	B	C	F	2					Good Over 30																					
1LC6	1	80	27	A	F	D	C	E	.	B	A	C	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		
1SB6	1	99	24	.	A	F	F	.	.	B	E	.	.	.	.	A	F	2		2DY4	2	61	30	F	E	A	B	C	.	.	.	.	.	.	.	B	F	2		
		99		.	A	.	F	.	.	B	.	.	.	.	.	B	.			2DZ4	2	82	30	F	E	A	B	C	.	.	.	.	.	.	.	B	F	2		
				Good Over 30																																					
1T4*	1	99	30	A	F	F	.	E	B	A	F	2		2E24	6	10	24	.	A	D	.	F	.	B	C	B	1	Z	
1T5	1	78	24	.	A	F	D	E	.	B	.	.	.	.	.	C	C	1		2E30	6	50	30	E	C	A	B	F	D	.	.	.	.	.	.	.	D	A	1	
1U4	1	98	30	A	F	D	.	E	B	A	C	1		2EA5	2	80	1	1	
1U5*	1	99	30	A	F	F	.	E	B	.	.	.	.	.	.	A	F	2		2EG4	2	80	22	.	F	.	E	.	.	C	.	B	.	A	.	.	A	F	2	
		99		.	A	.	F	.	.	B	.	.	.	.	.	B	.	1		2EN5	2	61	30	.	F	A	B	C	.	.	.	.	.	.	.	.	.	B	1	
1V2*	1	48	29	F	.	.	A	B	.	.	.	.	.	.	.	.	D	1			61			.	.	A	B	C	.	F	.	.	.	.	.	.	B	1		
1X2*	1	34	29	.	.	.	A	B	1	Y	2ER5	2	65	30	C	E	A	B	F	B	A	1	
1Z2*	1	13	30	.	.	.	A	B	1	Y	2ES5	2	71	30	C	E	A	B	F	B	A	1	
2AF4	2	65	30	F	E	A	B	C	.	.	.	.	.	.	.	B	F	2		2EV6	2	57	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
2AH2*	2	34	16	1	Y	2FH5	2	82	30	C	E	A	B	F	B	F	2	
2AS2	2	34	16	1	Y	2FS5	2	99	1	1	
2AV2*	2	99	29	F	.	.	A	B	C	1		2FO5	2	50	30	C	E	A	B	F	B	A	1	
2AZ2	2	18	29	.	.	.	A	B	1	Y	2FV6	2	64	1	1	
2B3*	2	34	15	1	Y	2FY5	2	55	30	C	E	A	B	F	B	A	1	
2BA2	2	14	29	F	.	.	A	B	D	1		2GK5	2	50	30	C	E	A	B	F	B	A	1	
2B-H5	2	72	22	.	F	.	E	.	.	C	.	A	.	B	.	B	F	2		2GU5	2	44	30	E	C	A	B	F	D	A	A	1	
2BJ2*	2	22	29	.	.	.	A	B	1	Y	2GW5	2	50	30	F	E	A	B	C	B	A	1	
2BN4	2	52	30	C	E	A	B	F	.	.	.	.	.	.	.	B	A	1		2HA5	2	48	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
2BU2*	2	14	16	1	Y	2HK5	2	45	4	1	
2C51	2	60	29	A	C	E	F	B	.	.	.	B	A	1		2HM5	2	45	4	1	
		60		A	.	.	F	E	C	B	.	.	.	.	.	B	A	1		2HQ5	2	40	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
2CN3*	2	14	15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	Y	2HR8	2	96	29	D	.	C	A	B	F	.	C	E	.	.	.	.	A	B	1	
2CD3*	2	12	16	1	Y	2T4	2	66	30	F	E	A	B	C	C	A	1	
2CW4	2	90	22	.	F	.	E	.	.	C	.	B	.	A	.	B	F	2		2V2*	2	54	15	1	Y	
2CY6	2	54	1	1		2V3*	2	50	15	1	Y	
2D21	6	14	30	E	C	A	B	C	F	.	.	.	.	.	.	B	C	1		2W3	2	32	17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		
2DF4	2	68	29	D	.	F	A	B	.	E	.	.	.	.	.	B	A	1		3A2*	3	18	29	.	.	.	A	B	.	.	.	.	.	.	.	.	.	1	Y	
2DS4	2	90	22	.	F	.	E	.	.	C	.	B	.	A	.	B	F	2		3A3*	3	48	15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	Y	
2DX4	2	53	30	F	E	A	B	C	.	.	.	.	.	.	.	B	F	2		3A4	3	55	30	A	F	D	E	.	B	.	.	.	.	.	.	C	A	1		

* INDICATES GOOD OVER 40

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					
3A5	3	78	30	A	F	E				B						B	F	2		3B6	3	75	5													1								
		68		A			E	F		B						B	F	2		3B8	3	14	16														1	Y						
3A8	3	96	24	A	F	D				B						A	C	1	G	3BT2*	3	18	16														1	Y						
		99		A			E	F		B						A	F	2		3B08	3	82	29	C	D	F	A	B	C	E						A	A	1						
				Good Over 50																																								
		80		A						B	F					B		1		3BW2*	3	18	16																1	Y				
3AB4	3	83	30	F	A	B		E		C						B	A	1		3BX6	3	76	9																1					
3AF4	3	65	30	F	E	A	B	D								B	F	2		3BY6	3	91	1																	1				
3AJ8	3	85	29	D	E	C	A	B	F	E						B	A	1		3BY7	3	62	9																		1			
		88				C	A	B		F	E					B	F	2		3BZ6	3	71	1																		1			
3AL5	3	62	30	F	A	B	C									B		1		3C2*	3	14	15																	1	Y			
		62		C	A	B				F						B		1		3C4	3	58	30	A	F	D		E	B										C	C	1			
3AT2*	3	22	16															1	Y	3C5	1	90	24	A	F	F	E	A	B											B	F	2		
3AU6	3	82	1															1		3CA3	3	18	15																		1	Y		
3AV6	3	88	30	E	C	A	B			F						A	A	1		3CB6	3	64	1																			1		
		88				C	A	B	F							B		1		3CE5	3	62	1																		1			
		88				C	A	B	F							B		1		3CF6	3	60	1																			1		
3AW2*	3	14	16															1	Y	3CN3	3	14	15																			1	Y	
3AW3*	3	48	15															1	Y	3CS6	3	94	1																			1		
3B2	3	53	15															1	Y	3CU3	3	13	16																			1	Y	
3B5	1	90	24	A	F	F	E			A	B					A	F	2		3CV3*	3	82	15																		1	Y		
3B7	3	54	27	B	F	E				A						A	D	1		3CX3*	3	14	24			A				B											1	Y		
		54		B				E	F	A						A	D	1		3CY3*	3	14	15																			1	Y	
3BA6	3	76	1															1		3CY5	3	54	1																			1		
3BC5	3	74	1															1		3CZ3*	3	14	15																			1	Y	
3BE6	3	91	1															1		3D6	3	54	27	A	F	D		E	B													C	A	1
3BF2*	3	28	16															1	Y	3DA3*	3	14	24			A				B												1	Y	
3BH2*	3	14	26			A	B											1	Y	3DB3*	3	34	15																			1	Y	
3BL2*	3	13	16															1	Y	3DC3*	3	13	15																			1	Y	
3BM2*	3	13	16															1	Y	3DF3*	3	14	24			A				B												1	Y	
3BN2*	3	54	16															1	Y	3DG4	3	11	24	A	B	F																C	1	
3BN4	3	52	30	C	E	A	B	F								B	A	1																						C	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				
3DH3*	3	18	24			A					B							1	Y	3HM5	3	45	4													1							
3DJ3*	3	18	15															1	Y	3HM5	3	68	9														1						
3DK6	3	61	1															1		3HC5	3	40	4														1						
3DL3	3	18	25			F	A	B										1	Y	3HS8	3	99	29	C	D	F	A	B	C									A	A	1			
3DR3*	3	18	24			A					B							1	Y		99			C	D	A	B		E	F	C					A	A	1					
3DS8	3	18	24			A					B							1	Y	3HM6	3	60	9																1				
3DT6	3	91	1															1		3JC6	3	65	9																1				
3DX4	3	53	30	F	E	A	B	C										2		3JD6	3	61	9																	1			
3DY4	3	61	30	F	E	A	B	C										2		3KF8	3	92	29	C	D	F	A	B	C	E									A	A	1		
3DZ4	3	82	30	F	E	A	B	C										2			92			C	D	A	B		E	F	C					A	A	1					
3EA5	3	80	1															1		3KT6	3	52	9																	1			
3EH7	3	40	9															1		3L35	3	56	30	A	F	D	E		B										G	A	1		
3EJ7	3	58	9															1		3LF4	3	60	23	A	F	F		E		B									C	F	2		
3ER5	3	65	30	C	E	A	B	F										1		3MP26	3	66	2																		1		
3ES5	3	71	30	C	E	A	B	F										1		3MR24	3	61	1																		1		
3EV5	3	57	1															1		3MV7	3	65	1																		1		
3FH5	3	82	30	C	E	A	B	F										2		3O4	3	57	30	A	F	E	D		B										C	C	1		
3FO5	3	50	30	C	E	A	B	F										1		3O5	2	90	24	A	F	D	E		B											C	F	2	
3FS5	3	99	1															1		3S4	3	53	30	A	F	E	D		B											C	C	1	
3FY5	3	55	30	C	E	A	B	F										1		3V4	3	59	30	A	F	D		E	B												C	C	1
3GK5	3	50	30	C	E	A	B	F										1		4AB8	4	67	29			C	A	B	F	C	D	E									B	A	1
3GK6	3	40	9															1			90			F	E	C	A	B												B	A	1	
3GS8	3	95	29	C	D	F	A	B	C	E								1		4AU6	4	82	1																		1		
		95		C	D	A	B	F	E	T	D							1		4AU8	4	56	8																		1		
3GU5	3	44	30	E	C	A	B	F	D									1			62																			2			
3GW5	3	50	30	F	E	A	B	C										1		4AV6	4	88	30	E	C	A	B		F												A	A	1
3GY5	3	48	21															1	Z		88				C	A	B	F												B	1		
3HA6	3	48	4															1			88				C	A	B	F												B	1		
3HE7	3	52	23	A			F			C	E		D	B	D	E		1		4BA6	4	78	1																		1		
		10		A	F		C							B	C			1		4BC5	4	74	1																	1			
3HF5	3	57	21															1	Z	4BC8	4	53	7																	1			
3HK5	3	46	4															1			53																			1			

* INDICATES GOOD OVER 40

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			
5HA7	5	91	23	A			C					E	F		B	C	A	1		5P-29	6	62	14													1	Z					
		90		A											E	B	A	A	1	5R4	5	22	17														1					
5HB7	5	74	29	C	E		A	B	F	D												22															2					
		56		C			A	B				F	E							5RDDH1	5	85	29				A	B			F	E	C				B	A	1			
5HC7	5	91	23	A			C					E	F		B	C	A	1				58			F	C		A	B								B	1				
		90		A	F	C									E	B	A	A	1			58					C	A	B	F							B	1				
5HG8	5	75	29	C	E	C	A	B				F	D							5R-HP1	4	74	6															1				
		60		C			C	A	B	E	F											56																	2			
5HZ6	5	83	1																	5RHR1	5	58	7																1			
5J6	5	60	30	F		A	B		E	C												58																	2			
		60				F	A	B	E	C										5RK16	5	12	29	F			A	B												C	1	
5JK6	5	61	1																			12						A	B			F						C	1			
5JL6	5	23	1																	5T4	5	15	17																1			
5JW8	5	80	6																			15																	2			
		85																		5T8	5	90	29				A	B			C	E	F						A	A	1	
5KD8	5	68	6																			58						A	B	F	C								B	1		
		52																				58			F		A	B		C									B	1		
5KE8	5	88	6																			58			F	C	A	B												B	1	
		53																		5U4	5	15	17																	1		
5KZ8	5	73	29	E	C	A	B	F	D													15																		2		
		54		F		A	B		C	E										5U8	5	79	6																		1	
5LJ8	5	72	10																			55																		2		
		80																		5U9	5	48	28		C	E	C	A	B	F	D									B	A	1
5MB8	5	80	10																			55			C			A	B		F	E							B	A	1	
		85																		5V3	5	12	17																		1	
5ME8	5	64	23	A			E	E	D	C												12																		2		
		59		A	F							E	C	B						5V4	5	12	17																	1		
5MHH3	5	53	30	F		A	B	E	C													12																		2		
		53				F	A	B	E	C										5V6	5	79	14																		1	
5MK9	5	14	30			A	B	F												5V9	5	85	28	C	E	E	D	A	B	F									B	A	1	
5MQ8		66																				53						A	B		E	C	F					B	A	1		
5N1039A	5	63	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					
5W4	5	24	17															1		6AD7	6	95	24		A	F	D	E		B	C					C	A	1						
		24																2			99			F	A			F	B	C					D	D	1							
5X4	5	16	24		F					A	B							C	1	6AD10	6	83	19															1						
		16					F			A	B							C	1		95																2							
5X8	5	83	8																1	6AF3	6	12	29				A	B			F				C	1	K							
		61																	2	6AF4	6	65	30	F	E	A	B	C									B	F	2					
5X9	5	48	28		C	E	C	A	B	F	D								B	A	1	6AF9	6	24	28		C		A	B	C	E	D	F			B	A	1					
		72		C			A	B		F	F								B	A	1		61		F	C	D	F	A	B						B	A	1						
5Y3	5	24	17																1	6AF10	6	42	23	A	C	E	D	F	C							B	B	A	1					
		24																	2		38			A				C	C	E	D	F	B		B	A	1							
5Y4	5	32	24		F					A	B								C	1	6AF11	6	48	23	A	F					C	D	E	B		B	A	1						
		32					F			A	B								C	1		71		A			C	E	F		F			B	B	A	1							
5Z4	5	24	17																1		76			A	E	F			C					B	B	A	1							
		24																	2	6AG5	6	80	1															1						
5Z10	5	16	17																1	6AG7	6	38	24	C	A	C	E	C	D	B	F						B	A	1					
		16																	2	6AG9	6	32	23	A	F		C				C	D	E	B		B	A	1						
6A8	6	95	24		A	F	D	E	C	B	C								B	A	1	G	59		A			E	C	F				B	B	A	1							
6AB4	6	83	30	F	A	B		E	C										B	A	1	6AG11	6	59	23	A				F	E	C			B	B	A	1						
6AB7	6	74	24	C	A	C	E	C	D	B	F								B	A	1		59		A		C	E	F					B	B	A	1							
6AB8	6	67	29		C	A	B	F	C	D	E									B	A	1		62		A						F	C	B		B	1							
		90		F	E	C	A	B												B	A	1		62		A	C	F						B		B	1							
6AB9	6	54	28	F	D	E	C	A	B										B	A	1	6AH4	6	75	24	F	A		F			B	C					D	A	1				
		54					A	B	F	D	E	C								B	A	1	6AH6	6	58	1														1				
6AC5	6	99	24		A	F		E		B	C								A	A	1	6AH7	6	92	24	E	C	F			A	B							C	A	1			
6AC7	6	60	24	C	A	C	E	C	D	B	F									B	A	1		92				C	E	F	A	B					C	A	1					
6AC9	6	65	23	A						C	C	E	D	F	B					B	A	1	6AH9	6	25	23	A			E		C	D	C	F	B		B	A	1				
		60		A	F	C														B	B	1		80		A	E	F	C						B	C	A	1						
		60		A	F	C														B	B	1	6AJ4	6	46	29	F	C		F		A	B						B	A	1			
6AC10	6	70	23	A	F	C														B	B	1	6AJ5	6	93	30	E	C	A	B	F	F									B	C	1	
		70		A		F	C	E												B	B	1	6AJ7	6	60	24	C	A	C	E	C	D	B	F								B	A	1
		70		A		C															B	B	1	6AJ8	6	85	29	D	E	C	A	B	F	E								B	A	1
																								88			C	A	B		F	E					B	F	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			
6AJ9	6	57	28		C	E		A	B	F	D					B	A	1		6AN6	6	72	30	A	F			C	B						B	1						
		50		C				A	B		F	E				B	A	1			72		A	F			C	B							B	1						
6AK5	6	63	1															1			72		A		F		C	B							B	1						
6AK6	6	82	1															1			72		A			F	C	B							B	1						
6AK7	6	38	24	C	A	C	E	C	D	B	F					B	A	1		6AN8	6	62	29				A	B	F	D	E	C				B	A	1				
6AK8	6	90	29				A	B		C	E	F				A	A	1			61		F	E	C	A	B									B	A	1				
		58		F			A	B		C								1		6A04	6	65	30	E	C	A	B	C	E	F							B	A	1			
		58					A	B	F	C								1		6A05	6	77	2															1				
		58			F	C	A	B										1		6A06	6	89	30	E	C	A	B			F								A	A	1		
6AK9	6	51	23	A				F		C	E	D			B	D	A	1			88				C	A	B	F									B	1				
		72		A	F	E				C						B	B	A	1		88				C	A	B	F									B	1				
		70		A						C		E	F	B		B	A	1		6A07	6	95	24				E	F	C	A	B							A	A	1		
6AK10	6	60	23	A	F	C							E	B	B	A	1			83		F	C					A	B								B	1				
		60		A				F	C	E					B	B	A	1			83				C	F			A	B								B	1			
		60		A			C				E	F			B	B	A	1		6A08	6	70	7																1			
6AL3	6	11	29				A	B			F					C	1	K			70																	2				
6AL5	6	62	30		F	A	B	C										B	1		6AR5	6	91	2																1		
		62		C		A	B			F								B	1		6AR6	6	85	24	C		F		D	A	E	B							D	A	1	
6AL6	6	63	24		A			D	E		B	C				C	A	1	P		6AR8	6	90	29	C	C	D	A	B	E	C	F	F						B	A	1	
6AL9	6	35	23	A	F		C				C	D	E	B	B	A	1			6AR11	6	75	23	A	F	D	C	E	C											B	A	1
		61		A				E	C	F					B	B	A	1			75		A						C	F	D	E	C	B	B	A	1					
6AL11	6	95	23	A	C	E	C		F	D					B	B	A	1		6AS5	6	56	3																	1		
		80		A						E	C	D	F	B	C	A	1			6AS6	6	77	1																	1		
6AM4	6	70	29		C		E	F		A	B					B	A	1		6AS7	6	45	24	E	F	C			A	B										C	1	
6AM5	6	73	30	E	C	A	B	F	C	D						B	A	1			45					E	F	C	A	B								C	1			
6AM6	6	90	30	E	C	A	B	F	C	D						B	A	1		6AS8	6	60	29	D	E	C	A	B		C										B	A	1
6AM8	6	65	29	C	E	D	A	B	F			C				B	A	1			63						A	B	F		C							B	1			
		60					A	B		C	F					B	1			6AS11	6	90	23	A	F						C	D	E	B	C	A	1					
6AN4	6	63	30	F	E	A	B	C								B	A	1			69		A				C	E	F			B	B	A	1							
6AN5	6	33	1															1			71		A		E	F			C									B	A	1		

6BA11

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
6BA11	6	92	23	A	F	D	E	C	F	C	C	.	.	B	B	A	1			6BF8	6	88	29	F	.	A	B	C	B	1	
		84		A	D	C	C	B	C	A	1				88			F	.	A	B	C	B	1		
6B-B14	6	42	26	E	.	C	A	B	D	.	.	.	.	.	.	C	E	1	Z		88			.	F	A	B	C	.	.	.	.	.	.	B	1
6BC4	6	52	29	F	E	.	A	B	C	.	.	.	.	.	.	B	A	1			88			.	.	A	B	C	.	.	.	.	.	.	B	1
6BC5	6	74	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1				88			.	.	A	B	C	.	F	.	.	.	.	B	1
6BC7	6	54	29	C	F	.	A	B	.	.	.	.	.	.	.	B	1				88			.	.	A	B	C	.	F	.	.	.	.	B	1
		54		.	.	A	B	F	C	B	1			6BF11	6	53	19	1		
		54		.	.	A	B	.	F	C	.	.	.	.	.	B	1				99			.	.	.	.	.	.	.	.	.	.	.	.	2
6BC8	6	53	7	1			6BG6	6	66	24	A	C	.	E	C	B	D	C	E	1	P	
		53		2			6BH3	6	10	20	1	
6BC32	6	91	30	E	C	A	B	.	.	F	.	.	.	.	.	A	A	1			6	89	1	.	.	.	.	.	.	.	.	.	.	.	.	1
		88		.	C	A	B	F	B	1			6BH8	6	59	8	1		
		88		.	C	A	B	F	.	.	.	.	.	.	.	B	1				54			.	.	.	.	.	.	.	.	.	.	.	2	
6BD4	6	85	24	C	A	.	E	.	B	F	A	1	P		6BH11	6	65	23	A	E	D	F	C	B	B	A	1			
6BD5	6	59	24	E	A	C	.	F	.	B	D	.	.	.	C	A	1				51			A	C	F	E	.	.	.	.	B	B	A	1	
6BD6	6	85	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1				51			A	.	C	E	F	.	.	.	B	B	A	1	
6BD7	6	79	29	F	E	C	A	B	A	A	1			6BJ3	6	9	12	1		
		83		.	C	A	B	F	B	1				6BJ6	6	81	1	1		
		83		.	C	A	B	.	F	B	1				6BJ7	6	62	29	C	F	.	A	B	B	1	
6BD11	6	50	23	A	F	.	.	.	.	D	D	E	B	B	A	1				82			.	.	B	A	B	F	C	.	.	.	.	B	1	
		62		A	.	.	C	E	.	F	.	.	B	B	A	1				62			.	.	A	B	.	F	C	.	.	.	.	B	1	
		86		A	E	F	.	C	.	.	B	B	A	1						6BJ8	6	77	29	.	.	A	B	.	F	E	C	.	C	A	1				
6BE3	6	12	12	.	.	.	.	.	.	.	.	.	.	.	.	.	1				62			F	C	.	A	B	.	.	.	.	.	B	1	
6BE6	6	91	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1				62			.	C	A	B	F	.	.	.	.	.	B	1	
6BE7	6	99	29	D	E	C	A	B	F	E	C	C	.	.	A	A	1			6BK4	6	85	24	C	A	.	E	B	.	.	.	F	A	1	P				
6BE8	6	72	10	.	.	.	.	.	.	.	.	.	.	.	.	.	1			6BK5	6	60	29	.	C	A	B	C	.	D	.	.	.	.	B	1
		75		.	.	.	.	.	.	.	.	.	.	.	.	.	2			6BK6	6	89	30	E	C	A	B	.	F	.	.	.	A	A	1	
6BF5	6	40	2	.	.	.	.	.	.	.	.	.	.	.	.	.	1				80			.	C	A	B	.	.	.	.	.	B	1		
6BF6	6	85	30	E	C	A	B	.	F	A	A	1			6BK7	6	55	7	1		
		88		.	C	A	B	F	.	.	.	.	.	.	B	1				55			.	.	.	.	.	.	.	.	.	.	.	.	.
		88		.	C	A	B	F	.	.	.	.	.	.	B	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		
6BK11	6	88	23	A	F	C									E	B	A	A	1	6BT6	6	85	30	E	C	A	B		F						A	A	1				
		88		A												B	A	A	1			88			C	A	B	F							B	1					
		88		A			C								E	F	B	A	A	1			88			C	A	B	F						B	1					
6BL4	6	10	18																	6BT8	6	60	29				A	B	F	D	B	C			B	A	1				
6BL7	6	57	24	E	F	C				A	B										72			F	C	A	B								B	1					
		57								E	F	C				A	B				72				F	C	A	B							B	1					
6BL8	6	74	6																	6BU4	6	85	24	C	A		E		B						F	A	1	P			
		58																			6BU5	6	75	24		C	D	E	C		A	B				F	A	1	P		
6BM8	6	54	29		C	E	A	B	F	D										6BU6	6	85	30	E	C	A	B		F							A	A	1			
		88		E			A	B			C	F									88				C	A	B	F							B	1					
6BN4	6	52	30	C	E	A	B	F													88				C	A	B	F							B	1					
6BN5	6	86	29		F	C	A	B		F	C	D								6BU8	6	92	29	C	D	E	A	B	C	E		C					A	A	1		
6BN6	6	75	5																		92			C	D		A	B	C	E	F	C				A	A	1			
6BN7	6	60	29				A	B	C	E		F								6BV8	6	60	29	C	E	F	A	B										B	A	1	
		90		F	E	C	A	B													60					A	B	F		C					B	1					
6BN8	6	80	29				A	B		F	E	C									60					A	B		G		F					B	1				
		62		F	C		A	B													6BV11	6	83	23	A	C	F	D	C	E						B	B	A	1		
		62			C	A	B	F													83				A				E	C	D	F	G	B	B	A	1				
6BN11	6	70	23	A	C	E	D	F	C							B	B	A	1	6BW3	6	13	12															1			
		70		A						E	C	D	C	F	B						6BW4	6	25	29	F			A	B			C						C	1		
6BQ5	6	40	29		E	C	A	B		F		D									25					A	B		F		C					C	1				
6BQ6	6	89	24		A		D	F		B	C										6BW6	6	78	29	E		C	A	B		F	D	C						C	A	1
6BQ7	6	54	7																		6BW7	6	76	9																1	
		62																			6BW8	6	72	29				A	B	F	G	D	F					B	A	1	
6BR3	6	10	29				A	B				F									62				F	C		A	B							B	1				
6BR8	6	72	10																		62					C	F	A	B							B	1				
		78																			6BW11	6	70	23	A	C	E	D	F	C							B	B	A	1	
6BS9	6	9	20																		65				A				C	E	D	C	E	B	B	A	1				
6BS8	6	54	7																		6BX6	6	76	9															1		
		64																			6BX7	6	55	24	E	F	C			A	B							C	A	1	
																					55						E	F	C	A	B					C	A	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
6CL3	6	11	20																1	6CU5	6	47	3													1			
6CL5	6	54	24	A	D	E	D	B	D										C E 1 Z	6CU6	6	69	24	A	D	E	B	C								D E 1 Z			
6CL6	6	45	29	C	E	D	A	B	F	C									B A 1	6CU8	6	68	29	C	F	D	A	B	C	E						B A 1			
6CL8	6	69	10																		60			D	A	B	E	F							B A 1				
			74																	6CW4	6	90	22	F	E			C	B	A					B F 2				
6CM3	6	11	20																	6CW5	6	34	29	E	C	A	B	F	D							C A 1			
6CM4	6	50	29	F	E	C	A	B											B A 1	6CW7	6	65	29	C	E	F	A	B									C A 1		
6CM5	6	58	24	A	D	E		B	C										D E 1 Z		66			F	A	B	E	C	F							C A 1			
6CM6	6	64	29	D		A	B	E	C	F									B A 1	6CX7	6	54	7														1		
6CM7	6	80	29	F		A	B		E	C									C A 1		54															2			
			94			C	A	B	F	E									C A 1	6CX8	6	45	8														1		
6CM8	6	63	29	E	C	A	B	F	D										B A 1		68															2			
			83	F		A	B		C	E									A A 1	6CY5	6	54	1														1		
6CN6	6	82	14																1 Z	6CY7	6	94	29			A	B	F	E	C							A A 1		
6CN7	6	94	29			A	B	C	E	F									A A 1		58			F	E	A	B		C							C F 2			
			63	F		C	A	B											B 1	6CZ5	6	60	29	D	E	A	B	C	F									B E 1	
			63			F	C	A	B										B 1	6D2	6	62	30	F	A	B	C										B 1		
6CD4	6	11	18																1		62			C	A	B	F	E									B 1		
6CD6	6	95	30	E	C	A	B	F	C	D									B A 1	6D8	6	95	24	A	F	D	E	C	B	C								B A 1 G	
6CD8	6	72	6																1	6D10	6	72	23	A	F	C												B A 1	
			55																2		72			A			F	C	E							B B A 1			
6CR5	6	89	30	C		A	B	F	D	E									B A 1		72			A		C											B A 1		
			88	C	F	A	B												B 1	6DA4	6	11	18														1		
6CR8	6	74	29	E	C	A	B	F	D	D									B A 1	6DA6	6	80	9															1	
			62	F		A	B		C	E									B A 1	6DB5	6	30	29	D	C	A	B	E		F								B A 1	
6CS5	6	81	29	D	C	A	B	F	E	F									C A 1	6DB6	6	87	1															1	
6CS6	6	94	1																1	6DC6	6	67	1															1	
6CS7	6	87	29			A	B	F	E	C									B A 1	6DC8	6	69	29	D	E	C	A	B	F		C							B A 1	
			59	F		E	A	B		C									B A 1		76					C	A	B	F								B 1		
6CS8	6	74	29	E	C	A	B	F	D										B A 1		76					C	A	B	F								B 1		
			62	F		A	B		C	E									B A 1	6DE4	6	13	18														1		
6CL3	6	10	29			A	B	F		C									C 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		
6GM6	6	64	1																1	6GY8	6	99	29				A	B	F	C							B	1			
6GM8	6	73	29																A	B	1																				
		73					A	B	F	E	C								A	B	1																				
6GN7	6	74	9																																						
6GN8	6	36	8																																						
		95																																							
6GQ7	6	63	29	C	F		A	B											B	1																					
		68					A	B	F	C										B	1																				
		63					A	B		F	C									B	1																				
6GS7	6	75	10																																						
		59																																							
6GS8	6	95	29	C	D	F	A	B	C	E									A	A	1																				
		95		C	D		A	B		E	F	C								A	A	1																			
6GU5	6	65	13																																						
6GT5	6	63	25	D	E	C	A	B												D	E	1																			
6GU5	6	44	30	E	C	A	B	F	D											A	A	1																			
6GU7	6	56	7																																						
		56																																							
6GV5	6	55	21																																						
6GV7	6	65	29	D	F	A	B		E	C										B	A	1																			
		66		F		A	B		C	E										B	F	2																			
6GV8	6	42	29				A	B	F	D	C	E								C	A	1																			
		57		F	E	C	A	B												B	A	1																			
6GW5	6	50	30	F	E	A	B	C												B	A	1																			
6GW6	6	62	24		A		D	E		B	C									D	E	1	Z																		
6GW6	6	52	29				D	A	B	F	C	E								B	A	1																			
		89		E	C		A	B			F									A	A	1																			
6GX6	6	85	1																																						
6GX7	6	75	29	C	E		A	B	F	D										B	A	1																			
		55		C			A	B		F	D									B	A	1																			
6GY5	6	54	21																																						
6GY6	6	82	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			
6HJ7	6	75	29	C	E	C	A	B	F	D	.	.	.	.	.	B	A	1		6J8	6	93	24	.	A	F	D	E	.	B	C	.	.	.	.	B	A	1	G	
		60		C	A	C	A	B	.	.	.	.	.	.	.	C	A	1																						
6HJ8	6	70	29	C	E	D	A	B	F	.	.	C	.	.	.	B	A	1		6J9	6	67	29	F	E	C	A	B	.	.	.	.	.	.	B	A	1			
		60		.	.	A	B	.	.	C	F	.	.	.	.	B	1																							
6HK5	6	45	4	.	.	.	.	.	.	.	.	.	.	.	.	.	1																							
6HL5	6	44	29	.	E	C	A	B	.	F	D	.	.	.	.	C	A	1		6J10	6	73	23	A	D	C	.	.	F	E	B	.	C	A	1					
6HL8	6	60	6	.	.	.	.	.	.	.	.	.	.	.	.	.	1																							
		60		.	.	.	.	.	.	.	.	.	.	.	.	.	2																							
6HM5	6	45	4	1			6J11	6	73	23	A	D	F	C	E	C	B	B	A	1					
6HM6	6	68	9	.	.	.	.	.	.	.	.	.	.	.	.	.	1																							
6HQ5	6	40	4	1			6JA5	6	40	23	A	.	D	C	.	F	.	E	.	C	B	C	A	1					
6HQ6	6	62	1	1			6JAB	6	55	29	.	A	B	C	E	D	F	B	A	1					
6HR5	6	77	2	.	.	.	.	.	.	.	.	.	.	.	.	.	1																							
6HR6	6	71	1	1			6JB5	6	67	23	A	E	D	C	.	F	B	C	A	1					
6HS5	6	35	23	A	E	D	C	.	.	F	B	A	E	1		6JB6	6	60	13	1	Z	
6HS6	6	66	1	1			6JC5	6	64	23	A	E	D	C	.	F	B	C	A	1					
6HS8	6	99	29	C	D	F	A	B	C	E	.	C	.	.	.	A	A	1		6JC6	6	65	9	1		
		99		D	D	A	B	C	E	F	C	A	A	1		6JC8	6	77	29	C	E	D	A	B	E	C	B	A	1					
6HT6	6	60	9	.	.	.	.	.	.	.	.	.	.	.	.	.	1																							
6HU8	6	58	29	D	E	F	A	B	.	C	.	.	.	.	.	B	A	1		6JD5	6	47	23	A	E	D	C	.	F	.	.	B	A	A	1					
		58		.	.	A	B	E	.	C	F	D	.	.	.	B	A	1			6JD6	6	61	9	1		
6HV5	6	55	23	A	E	C	D	.	.	F	B	A	1		6JE6	6	61	13	1	Z
6HW8	6	86	29	C	F	D	A	B	E	C	F	C	.	.	.	B	A	1		6JE8	6	56	8	1	
6HZ6	6	83	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1																							
6HZ8	6	28	8	1			6JF6	6	57	13	1	Z	
		88		.	.	.	.	.	.	.	.	.	.	.	.	.	2			6JG5	6	36	29	.	A	B	C	E	D	F	.	.	B	A	1					
6J4	6	35	30	E	C	A	B	.	.	F	B	A	1		6JG6	6	56	25	D	E	C	A	B	.	C	F	.	.	D	E	1						
6J5	6	93	14	1			6JH5	6	44	23	A	.	C	.	F	.	D	E	B	.	A	A	1						
6J6	6	60	30	F	.	A	B	.	E	C	B	A	1		6JH6	6	64	1	1		
		60		.	F	A	B	E	.	C	B	A	1		6JH8	6	85	29	C	D	A	B	E	C	F	E	.	B	A	1							
6J7	6	96	24	.	A	F	D	C	.	B	C	A	A	1	G	6JK5	6	44	23	A	.	C	.	F	.	C	E	B	.	A	A	1						
				1		6JK6	6	61	1	1			
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6NK7GT

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
6NK7GT	6	84	24	C	A	C	E	C	D	B	F	B	A	1		6R-HH15	6	53	7	1		
6P5	6	93	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			53	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	
6P15	6	74	29	.	E	C	A	B	.	F	.	D	.	.	.	C	A	1		6R-HP2	6	68	29	.	C	E	A	B	F	D	C	A	1		
6P17	6	73	30	E	D	A	B	F	C	D	.	.	.	.	.	B	A	1			96	.	E	.	A	B	.	C	F	.	.	.	A	A	1		
6Q7	6	88	24	.	A	F	.	.	.	B	C	.	.	.	.	A	A	1	G	6R-K19	6	10	29	.	.	A	B	.	F	.	.	.	C	1	K		
		87		.	A	F	.	.	.	B	C	.	.	.	.	B	1			6R-P1b	6	70	29	.	C	A	B	.	F	D	.	.	C	A	1		
		87		.	A	.	F	.	.	B	C	.	.	.	.	B	1			6R-P22	6	58	29	C	E	D	A	B	F	C	.	.	.	B	A	1	
6Q11	6	88	23	A	F	C	.	.	.	.	.	.	E	B	A	A	1		6S2	6	35	29	.	.	A	B	.	.	.	.	.	.	.	.	1	Y	
		88		A	.	.	F	C	.	E	.	.	.	B	A	A	1		6S4	6	58	29	.	C	A	B	E	.	F	.	.	B	A	1					
		73		A	.	C	.	.	.	E	F	.	B	B	A	1			6S7	6	89	24	.	A	F	D	C	.	B	C	.	.	B	A	1	G			
6R3	6	14	29	.	.	A	B	.	.	F	.	.	.	.	.	C	1	K		6S8	6	99	24	.	C	.	F	A	B	.	.	A	A	1	G		
6R4	6	74	29	E	.	C	A	B	.	F	.	.	.	.	.	B	F	2																			
6R7	6	88	24	.	A	F	.	.	.	B	C	.	.	.	.	B	A	1	G		88		F	C	.	.	A	B	.	.	B	1					
		86		.	A	F	.	.	.	B	C	.	.	.	.	B	1				88		C	F	.	.	A	B	.	.	B	1					
		86		.	A	.	F	.	.	B	C	.	.	.	.	B	1				88		.	F	C	.	.	A	B	.	.	B	1				
6R8	6	86	29	.	.	A	B	.	C	E	F	.	.	.	.	A	A	1		6SA7	6	93	24	C	A	F	D	E	C	B	E	.	.	B	A	1	
		58		.	.	A	B	F	C	.	.	.	.	.	.	B	1			6SB7Y	6	91	24	C	A	F	D	E	C	B	E	.	.	B	A	1	
		58		F	.	A	B	.	C	B	1			6SC7	6	99	24	.	F	E	.	C	A	B	.	.	A	A	1				
		58		.	F	C	A	B	.	.	.	.	.	.	.	B	1				99		.	E	F	C	A	B	.	.	A	A	1				
6R-A2	6	45	20	.	C	E	A	B	.	F	.	.	.	.	.	D	A	1		6SD7	6	69	24	C	A	C	E	C	D	B	F	.	.	B	A	1	
6R-A6	6	52	29	C	E	.	A	B	.	F	.	.	.	.	.	C	A	1		6SE7	6	77	24	C	A	C	E	C	D	B	F	.	.	B	A	1	
6R-A8	6	30	29	.	C	E	A	B	.	F	D	A	1		6SF5	6	82	24	.	C	E	D	F	A	B	.	.	A	A	1				
6R-A9	6	54	29	C	E	.	A	B	.	F	C	A	1		6SF7	6	94	24	.	E	C	D	F	A	B	.	.	B	A	1				
6R-AL1	6	60	29	F	.	E	A	B	.	C	.	.	.	.	.	C	A	1			88		.	C	F	.	A	B	.	.	B	1					
		85		.	.	A	B	F	E	C	B	A	1		6SG7	6	77	24	C	A	C	E	C	D	B	F	.	.	B	A	1			
6R-B10	6	42	29	D	.	E	A	B	.	C	F	C	A	1		6SH7	6	77	24	C	A	C	E	C	D	B	F	.	.	B	A	1			
6R-B11	6	55	29	D	.	E	A	B	.	C	F	C	A	1		6SJ7	6	83	24	C	A	C	E	C	D	B	F	.	.	B	A	1			
6R-B12	6	50	29	D	.	E	A	B	.	C	F	C	E	1	Z	6SK7	6	84	24	C	A	C	E	C	D	B	F	.	.	B	A	1			
6R-HH2	6	53	7	1			6SL7	6	95	24	E	F	C	.	.	A	B	.	.	A	A	1				
		53		.	.	.	.	.	.	.	.	.	.	.	.	.	2				95		.	E	F	C	A	B	.	.	A	A	1				
6R-HH8	6	41	29	F	E	C	A	B	.	.	.	.	.	.	.	B	F	2		6SN7	6	72	24	E	F	C	.	.	A	B	.	.	B	A	1		
		52		.	.	A	B	F	E	D	.	.	.	.	.	B	F	2			72		.	E	F	C	A	B	.	.	B	A	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
6X9	6	48	28	.	C	E	C	A	B	F	D	B	A	1		7B6	7	99	27	A	F	E	.	.	C	B	A	A	1		
		72		C	.	.	A	B	.	F	E	.	.	.	B	A	1				88		A	.	.	F	.	C	B	.	.	.	.	B	1	
6Y6	6	40	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1			88		A	.	.	F	.	C	B	.	.	.	.	B	1	
6Y9	6	20	28	.	.	.	A	B	C	E	D	F	.	.	B	A	1		7B7	7	86	27	A	F	D	C	E	C	B	.	.	.	.	B	A	1
		54		E	C	D	F	A	B	B	A	1		7B8	7	88	27	A	F	C	E	D	E	C	B	B	A	1		
6Y10	6	65	19	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		7C4	7	67	27	A	.	.	F	.	C	B	.	.	.	.	B	1
		90		2		7C5	7	77	27	A	F	D	.	E	C	B	C	A	1		
6Z10	6	73	23	A	D	C	.	.	.	F	E	B	C	A	1				7C6	7	99	27	A	F	E	.	.	C	B	.	.	.	.	A	A	1
		95		A	.	F	B	D	E	C	.	.	B	A	D	1					86		A	.	.	F	.	C	B	.	.	.	.	B	1	
				Normally Shows Short On-Grid Emission																				86		A	.	.	F	.	C	B	B	1	
6Z31	6	18	30	F	.	A	B	.	C	.	.	.	.	.	.	C	1		7C7	7	80	27	A	F	D	C	E	C	B	.	.	.	.	B	A	1
		18		.	A	B	F	C	.	.	.	.	.	.	.	C	1		7D38	7	65	29	F	E	C	A	B	.	.	.	.	C	A	1		
6ZY5	6	17	17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1			65		.	.	A	B	F	E	C	.	.	.	.	C	A	1
7A4	7	62	27	A	F	.	E	C	B	.	.	.	.	.	B	A	1		7E5	7	62	27	E	A	F	C	.	B	.	.	.	.	B	A	1	
7A5	7	35	27	A	F	D	.	E	C	B	.	.	.	.	B	A	1		7E6	7	91	27	A	F	E	.	.	C	B	.	.	.	.	C	A	1
7A6	7	65	27	A	C	F	.	.	B	.	.	.	.	.	B	1				90		A	.	.	F	.	C	B	.	.	.	.	B	1		
		65		A	.	.	F	C	B	.	.	.	.	.	B	1				90		A	.	.	F	.	C	B	.	.	.	.	B	1		
7A7	7	80	27	A	F	D	C	E	C	B	.	.	.	.	A	A	1		7E7	7	93	27	A	F	.	D	E	C	B	.	.	.	.	B	A	1
7A8	7	78	27	A	F	C	E	D	E	C	B	.	.	.	A	A	1				84		A	.	F	.	C	B	.	.	.	.	B	1		
7AD7	7	47	27	A	F	D	C	E	C	B	.	.	.	.	B	A	1				84		A	.	F	.	C	B	.	.	.	.	B	1		
7AF7	7	72	27	A	C	F	E	.	B	B	A	1		7ES8	7	30	7	1		
		72		A	.	.	E	F	C	B	.	.	.	.	B	A	1				30		.	.	.	.	.	.	.	.	.	.	.	.	.	2
7AG7	7	80	27	A	F	D	C	E	C	B	B	A	1		7EY6	7	60	14	1		
7AH7	7	88	27	A	F	D	C	E	C	B	B	A	1		7F7	7	93	27	A	C	F	E	.	B	A	A	1		
7AK7	7	61	27	A	F	D	C	E	C	B	.	.	.	.	C	A	1				93		A	.	.	E	F	C	B	.	.	.	.	A	A	1
7AN7	7	65	29	C	E	F	A	B	.	.	.	.	.	.	C	A	1		7F8	7	62	27	A	.	.	C	F	B	E	.	.	.	.	B	A	1
		65		.	.	A	B	E	C	.	F	.	.	.	C	A	1				62		E	A	F	C	.	B	.	.	.	.	B	A	1	
7AU7	7	75	7	1		7FC7	7	85	29	C	E	F	A	B	C	A	1		
		75		.	.	.	.	.	.	.	.	.	.	.	.	.	.	2				85		.	.	A	B	E	C	.	F	.	.	C	A	1
7BA7	7	90	27	A	F	.	E	C	B	.	.	.	.	.	A	A	1		7G7	7	55	27	A	F	D	C	E	C	B	.	.	.	.	B	A	1
7B5	7	85	27	A	F	D	.	E	C	B	B	A	1		7GS7	7	75	10	1		
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	2				59		.	.	.	.	.	.	.	.	.	.	.	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		
8JE8	8	56	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	8MD8	8	76	25	F	.	A	B	.	C	.	E	.	.	.	.	C	A	1
		73		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2					F	.	A	B	.	C	.	E	.	.	.	.	C	A	1
8JK8	8	54	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1					.	F	A	B	E	C	.	.	.	.	.	.	C	A	1
		56		2	8M-R12	8	60	1	1		
8JL8	8	40	8	1	8MU8	8	52	6	1	
		66		2					2		
8JT8	8	25	29	.	.	A	B	C	.	E	D	F	B	8R-HP1	8	54	29	.	C	E	A	B	F	D	C	A	1	
		97		C	E	F	A	B	.	.	.	.	.	.	.	.	.	.	B					E	.	A	B	.	D	F	.	.	.	.	.	B	A	1
8JU8	8	60	29	F	C	.	A	B	B	8R-LP1	8	56	29	.	C	E	A	B	F	D	C	A	1
		60		F	C	.	A	B	.	.	.	.	.	.	.	.	.	.	B					F	.	A	B	.	C	F	.	.	.	.	.	C	A	1
		60		.	.	A	B	.	F	C	.	.	.	.	.	.	.	.	B					E	F	C	.	A	B	.	.	.	.	.	.	B	A	1
		80		.	.	A	B	.	F	C	.	.	.	.	.	.	.	.	B					E	F	C	.	A	B	.	.	.	.	.	.	B	A	1
8JV8	8	55	8	1	8U9	8	48	28	.	C	E	C	A	B	F	D	B	A	1
		76		2					C	.	A	B	.	F	E	B	A	1		
8KA8	8	78	29	.	.	C	A	B	E	C	D	F	B	8X9	8	48	28	.	C	E	C	A	B	F	D	B	A	1
		78		F	E	C	A	B	B					C	.	A	B	.	F	E	B	A	1		
8KR8	8	22	8	1	9A8	9	66	6	1
		50		2					2	
8KS8	8	33	8	1	9AB4	9	83	30	F	.	A	B	.	E	C	B	A	1
		77		2	9AH9	9	25	23	A	.	.	E	.	C	D	C	F	B	B	A	1
8KT8	8	67	8	1					A	E	F	C	B	C	A	1		
		83		2	9AK8	9	90	28	.	.	A	B	.	C	E	F	A	A	1	
8LC8	8	77	29	.	.	C	A	B	E	C	D	F	.	.	.	.	.	.	B					.	.	A	B	F	C	.	.	.	.	.	.	B	1	
		77		F	E	C	A	B	.	.	.	.	.	.	.	.	.	.	B					F	.	A	B	.	C	.	.	.	.	.	.	B	1	
8LE8	8	57	29	F	C	C	A	B	.	.	D	E	.	.	.	.	.	.	B					.	F	C	A	B	.	.	.	.	.	.	.	B	1	
		57		.	.	C	A	B	E	C	D	E	.	.	.	.	.	.	B					A	E	F	C	.	.	.	.	.	.	E	B	B	A	1
8LJ8	8	72	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1					A	.	.	F	C	E	.	.	.	.	.	B	B	A	1
		80		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2					A	.	C	.	.	E	F	.	.	B	B	A	1		
8LS6	8	68	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	9AM10	9	63	23	A	F	C	.	.	.	.	.	.	E	B	B	A	1	
		68		C	D	F	A	B	.	.	E	.	.	.	.	.	.	.	B					A	.	F	C	E	.	.	.	.	.	B	B	A	1	
8LT8	8	68	29	.	.	A	B	F	C	.	.	.	.	.	.	.	.	.	B					A	.	C	.	.	E	F	.	.	B	B	A	1		
		62		.	.	A	B	F	C	.	.	.	.	.	.	.	.	.	B					A	.	C	.	.	E	F	.	.	B	B	A	1		
		62		.	.	A	B	F	C	.	.	.	.	.	.	.	.	.	B					A	.	C	.	.	E	F	.	.	B	B	A	1		

10AF11

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		
10AF11	10	48	23	A	F	.	.	.	.	.	C	D	E	B	B	A	1			10EW7	10	63	29	F	.	E	A	B	.	.	C	.	.	.	D	A	1		
		71		A	.	.	C	E	.	F	.	.	B	B	A	1					88			.	.	A	B	F	E	C	.	.	.	C	A	1					
		76		A	.	E	F	.	.	C	.	.	B	B	A	1					10FD7	10	61	29	F	.	E	A	B	.	.	C	.	.	.	D	A	1			
10AL11	10	95	23	A	C	E	C	F	D	.	.	.	B	A	A	1					87			.	.	A	B	F	E	C	.	.	.	A	A	1					
		80		A	.	.	.	.	.	E	C	D	F	B	C	A	1					10FR7	10	60	29	F	.	E	A	B	.	.	C	.	.	.	D	A	1
10B05	10	40	29	F	E	C	A	B	.	F	D	.	.	.	B	A	1				99			.	.	A	B	F	E	C	.	.	.	B	A	1					
10C8	10	59	29	.	.	A	B	F	.	D	E	C	.	.	B	A	1				10GF7	10	94	11	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
		73		F	E	C	A	B	.	.	.	.	.	.	B	A	1				80			.	.	.	.	.	.	.	.	.	.	.	.	2			
10C14	19	85	29	D	E	C	A	B	F	E	.	.	.	.	B	A	1				10GH8	10	68	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
		88		.	.	C	A	B	.	F	E	.	.	.	B	F	2				56			.	.	.	.	.	.	.	.	.	.	.	.	2			
10CW5	10	34	29	.	E	C	A	B	.	F	D	.	.	.	C	A	1				10GK6	10	40	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
10D2	19	62	30	F	A	B	C	B	1					10GM8	10	63	29	F	E	C	A	B	A	B	1	
		62		C	.	A	B	.	.	F	.	.	.	.	B	1					63			.	.	.	A	B	F	E	C	.	.	.	.	A	B	1	
10DE7	10	61	29	F	.	E	A	B	.	.	C	.	.	.	D	A	1				10GN8	10	36	8	1	
		88		.	.	A	B	F	E	C	.	.	.	.	C	A	1				95			.	.	.	.	.	.	.	.	.	.	.	.	.	2		
10DR7	10	64	29	F	.	E	A	B	.	F	C	.	.	.	D	A	1				10GV8	10	42	29	.	.	.	A	B	F	D	C	E	C	A	1	
		94		.	.	A	B	F	E	C	.	.	.	.	B	A	1				57			F	E	C	A	B	.	.	.	.	.	.	.	.	B	A	1
10DX8	10	57	29	.	.	A	B	F	C	E	D	.	.	.	B	A	1				10HA6	10	23	9	1	
		80		E	F	C	A	B	B	A	1				10HF8	10	27	8	1	
10E312	25	47	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.				80			.	.	.	.	.	.	.	.	.	.	.	.	.	2		
10E349	6	79	14	.	.	.	.	.	.	.	.	.	.	.	.	.	1				10JA5	10	40	23	A	.	D	C	.	F	.	E	.	C	B	C	A	1	
10E558	6	96	24	A	F	D	C	.	.	B	C	.	.	.	B	A	1	G			10JA8	10	59	29	.	.	.	A	B	C	E	D	F	B	A	1	
10E1448	6	93	14	.	.	.	.	.	.	.	.	.	.	.	.	.	1				71			C	E	F	A	B	.	.	.	.	.	.	.	.	B	A	1
10E11539	6	63	14	1				10JT8	10	25	29	.	.	.	A	B	C	E	D	F	B	A	1
10E11581	10	91	24	A	.	F	.	.	.	B	C	.	.	.	A	A	1	G			97			C	E	F	A	B	.	.	.	.	.	.	.	.	B	A	1
10EB8	10	35	8	1				10JY8	10	32	8	1
		97		.	.	.	.	.	.	.	.	.	.	.	.	.	2				55			.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	
10EQ7	10	68	24	E	F	C	.	.	.	A	B	.	.	.	D	A	1				10KR8	10	22	8	1
		86		.	.	E	F	C	A	B	.	.	.	.	C	A	1				50			.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	
10EM7	10	57	24	E	F	C	.	.	.	A	B	.	.	.	D	A	1				10KV8	10	20	29	.	.	.	A	B	C	E	D	F	B	A	1
		95		.	.	E	F	C	A	B	.	.	.	.	B	A	1				90			C	F	.	A	B	.	.	.	.	.	.	.	.	.	B	1
				.	.	E	F	C	A	B	.	.	.	.	B	A	1				90			C	F	.	A	B	.	.	.	.	.	.	.	.	.	B	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		
11R3	12	14	29				A	B				F				C	1	K		12AJ7	12	85	29	D	E	C	A	B	F	E					B	A	1				
11Y9	12	20	28				A	B		C	D	F				B	A	1			12AL5	12	62	30		F	A	B	C							B	F	2			
12A4	12	64	29				A	B								C	A	1			12AL8	12	88	29		E	E	A	B	F	C					B	A	1			
12A6	12	92	14																		12AL11	12	95	23	A	C	E	C	F	D					B	A	A	1			
12A8	12	95	24				A	F	D	E	C					B	A	1	G			12AO5	12	80							E	C	D	F	B	C	A	1			
12AB5	12	64	29	D	C		A	B	E	C	F					B	A	1			12AS5	12	77	2														1			
12AC6	12	95	30	E	C	A	B	F	F	C						A	B	1			12AT6	12	85	30	E	C	A	B		F							A	A	1		
12AC10	12	70	23	A	F	C									E	B	A	1				12AU5	12	73	24	E	A	C	E	F	B	D				D	E	1			
		70		A					F	C						B	A	1				12AU6	12	88			C	A	B	F								B	1		
		70		A			C								E	F	B	A	1				12AU7	12	88			C	A	B	F							B	1		
12AD6	12	75	30	E	C	A	B	F	F							B	C	1			12A17	12	74	7														1			
12AD7	12	89	7																			74															2				
		89																																							
12AE6	12	80	30	E	C	A	B			F						A	A	1			12AU8	12	56	8															2		
		88			C	A	B	F									B	1				74																			
		88			C	A	B	F										B	1			12AV5	12	62	24	E	A	C	E	F	B	D				D	E	1			
12AE7	12	64	29	F	E	C	A	B								A	B	1			12AV6	12	91	30	E	C	A	B		F									A	A	1
		64					A	B	F	E	C					A	B	1				12AV7	12	55	7															B	1
12AE10	12	62	19																																						
		99																																							
12AF3	12	12	29				A	B				F				C	1	K			12AV8	12	78	1																	
12AF6	12	80	30	E	C	A	B	F	F	C						A	B	1				12AX3	12	13	12															1	
12AF11	12	48	23	A	F							C	D	E	B	B	A	1				12AX4	12	13	18															1	
		71		A			C	E		F						B	A	1																							
		76		A	E	F			C							B	A	1																							
12AG6	12	75	30	E	C	A	B	F	F	E						B	C	1																							
12AH7	12	92	24	E	C	F				A	B					C	A	1																							
		92					C	E	F	A	B						C	A	1																						
12AJ0	12	80	30	E	C	A	B			F						A	A	1																							
		88			C	A	B	F									B	1																							
		88			C	A	B	F									B	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
12AX7	12	89	29	F	E	C	A	B								A	A	1		12BK6	12	89	30	E	C	A	B		F						A	A	1		
		89					A	B	F	E	C					A	A	1			83				C	A	B	F							B	1			
12AY3	12	14	20																		83				C	A	B	F							B	1			
12AY7	12	93	7																		12BL6	12	84	30	E	C	A	B	F	F	C				A	B	1		
		93																			12BN6	12	75	5													1		
12AZ7	12	74	7																		12BQ6	12	69	24	A	D	E		B	C				D	E	1	Z		
		74																			12BR3	12	10	29			A	B		F					C	1	K		
12B4	12	55	29	C	E		A	B			F					C	F	2		12BR7	12	71	29	F	E	C	A	B							B	A	1		
12B7	14	80	27	A	F	D	C		E	C	B					A	A	1			63					A	B	F		C				B	1				
12B8	12	90	24	C	A	F	F			B						B	F	2	G		63					A	B		F	C				B	1				
		95			A			F	C	B	E					A	F	2		12BS3	12	9	20													1			
12BA6	12	78	1																		12BT3	12	11	12													1		
12BA7	12	89	29	D	E	C	A	B	C	E	F					B	A	1		12BT6	12	85	30	E	C	A	B		F							A	A	1	
12BA11	12	92	23	A	F	D	E	C	F	C	C					B	B	A	1		88				D	A	B	F							B	1			
		84		A							E	C	F	B		C	A	1			88				C	A	B	F							B	1			
12B-B14	12	42	26	E		C	A	B	D							C	E	1	Z	12BU6	12	85	30	E	C	A	B		F							A	A	1	
12BC32	12	91	30	E	C	A	B			F						A	A	1			88				C	A	B	F							B	1			
		88			D	A	B	F								B	1				88				C	A	B	F							B	1			
		88			C	A	B	F								B	1			12BV7	12	39	9														1		
12BQ6	12	85	1																		12BV11	12	83	23	A	C	F	D	C	E					B	B	A	1	
12BE3	12	12	12																		83				A					E	C	D	F	C	B	B	A	1	
12BE6	12	91	1																		12BW4	12	25	29	F		A	B		C							C	1	
12BF6	12	85	30	E	C	A	B			F						A	A	1			25					A	B		F	C					C	1			
		88			D	A	B	F								B	1			12BX6	12	76	9														1		
		88			C	A	B	F								B	1			12BX7	12	55	24	E	F	C			A	B						C	A	1	
12BF11	12	53	19																		55					E	F	C		A	B				C	A	1		
		99																			12BY3	12	10	29			A	B		F						C	1	K	
12BH7	12	55	7																		12BY7	12	42	9														1	
		55																			12BZ6	12	71	1														1	
12BK5	12	53	29	F		E	A	B	C		D					B	A	1		12BZ7	12	95	7														1		
																					95															2			
																					12C5	12	44	3															

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		
12C8	12	70	24	C	A	F	.	D	B	C	.	.	.	.	B	D	1	G		12DJ8	12	65	29	F	E	C	A	B	.	.	.	.	.	.	C	A	1		
		88		C	A	F	.	D	B	C	.	.	.	.	B	1					65			.	.	A	B	F	F	C	.	.	.	.	C	A	1		
		88		C	A	F	.	D	B	C	.	.	.	.	B	1					12DK5	12	75	29	C	E	C	A	B	.	F	F	.	.	.	.	A	B	1
12C8Y	12	99	24	A	F	.	D	B	C	.	.	.	.	A	A	1				12DK6	12	61	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
		82		A	F	.	D	B	C	.	.	.	.	B	1					12DK7	12	88	29	E	C	D	A	B	.	F	.	.	.	.	.	.	B	B	1
		82		A	F	.	D	B	C	.	.	.	.	B	1						95			.	.	C	A	B	F	.	.	.	.	.	.	B	1		
12CA5	12	55	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		95			.	.	C	A	B	.	F	.	.	.	.	.	B	1		
12CK3	12	11	20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		12DL8	12	82	29	C	E	A	B	F	F	.	.	.	.	.	.	A	B	1
12CL3	12	11	20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		84			F	.	A	B	.	C	.	.	.	.	.	.	B	1		
12CM6	12	64	29	D	.	A	B	E	C	F	.	.	.	.	B	A	1			84			.	.	A	B	.	C	F	.	.	.	.	.	.	B	1		
12CN5	12	72	30	C	E	A	B	F	F	.	.	.	.	.	A	B	1			12DM4	12	11	18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12CR6	12	89	30	C	A	B	F	D	E	.	.	.	.	.	B	A	1			12DM5	12	44	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
		88		C	F	A	B	B	1				12DM7	12	89	29	F	E	C	A	B	A	A	1	
12CS5	12	51	29	D	C	A	B	E	.	F	.	.	.	.	C	A	1			89			.	.	A	B	F	E	C	.	.	.	.	.	.	A	A	1	
12CS6	12	94	1		12DN6	12	47	24	A	C	.	E	C	B	D	C	E	1	Z
12CT3	12	10	20	.	.	A	B	F	C		12DQ4	12	11	18	1	
12CT8	12	57	29	.	.	A	B	F	D	E	C	.	.	.	B	A	1			12DQ6	12	65	24	A	.	D	E	.	B	C	D	E	1	Z	
		63		F	E	D	A	B	.	.	.	.	.	.	B	A	1			12DQ7	12	36	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12CU5	12	47	3		12DS7	12	90	29	.	.	E	A	B	F	E	C	A	B	1	
12CUB	12	69	24	A	.	D	E	.	B	C	.	.	.	.	D	E	1	Z		84			F	.	A	B	.	C	.	.	.	.	.	.	.	B	1		
12CX6	12	68	30	E	C	A	B	F	F	C	.	.	.	.	A	B	1			84			.	.	A	B	.	C	F	.	.	.	.	.	B	1			
12CY6	12	75	30	E	D	A	B	F	F	C	.	.	.	.	A	B	1			12DT5	12	51	29	D	.	E	A	B	.	C	F	.	.	.	.	.	B	E	1
12D4	12	11	18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		12DT6	12	91	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
12DA6	12	80	9		12DT7	12	89	29	F	E	C	A	B	A	A	1	
12DB5	12	30	29	D	C	A	B	E	.	F	.	.	.	.	B	A	1			89			.	.	A	B	F	E	C	.	.	.	.	.	A	A	1		
12DE8	12	80	29	E	.	A	B	F	C	F	D	.	.	.	A	B	1			12DT8	12	71	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
		62		C	F	A	B	.	.	.	.	.	.	.	B	1				71			.	.	.	.	.	.	.	.	.	.	.	.	.	2			
12DF5	12	22	29	F	.	C	A	B	.	.	.	.	.	.	C	1				12DU7	12	65	29	E	C	F	A	B	F	.	.	.	.	.	.	A	B	1	
		22		.	.	A	B	F	.	C	.	.	.	.	C	1				94			.	.	C	A	B	.	C	.	.	.	.	B	1				
12DF7	12	83	29	F	E	C	A	B	.	.	.	.	.	.	A	A	1			94			.	.	C	A	B	.	C	.	.	.	.	B	1				
		83		.	.	A	B	F	E	C	.	.	.	.	A	A	1							.	.	.	.	.	.	.	.	.	.	.	.	.	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
12DV7	12	99	29	.	.	.	A	B	F	E	C	A	C	1		12EN6	12	36	14	1		
		94		D	F	.	A	B	B	1		12EO7	12	88	29	C	E	C	A	B	D	F	B	A	1		
		94		C	.	F	A	B	.	.	.	F	.	.	.	B	1					94	.	.	C	A	B	.	F	B	1				
12DV8	12	99	29	.	C	E	A	B	F	E	A	B	1		12EZ6	12	72	30	E	C	A	B	F	F	C	A	B	1		
		84		F	.	.	A	B	.	.	C	B	1		12F5	12	91	24	.	A	.	F	.	B	C	.	.	.	A	A	1	G			
		84		.	.	.	A	B	.	.	C	F	.	.	.	B	1		12F8	12	92	29	F	F	A	B	.	C	E	C	.	.	A	B	1				
12DW4	12	13	20	1					90	F	.	A	B	.	C	.	.	.	B	1						
12DW6	12	30	29	D	.	.	A	B	E	C	.	F	.	.	.	B	A	1				90	.	.	A	B	F	C	.	.	.	B	1						
12DW7	12	75	29	F	E	C	A	B	B	A	1		12F31	12	78	1	1				
		89		.	.	.	A	B	F	E	C	A	A	1		12FK6	12	89	30	F	C	A	B	.	F	.	.	.	B	B	1				
12DW8	12	78	29	F	E	C	A	B	.	.	.	.	.	.	.	B	B	1				90	.	C	A	B	F	.	.	.	B	1	
		91		.	.	.	A	B	F	E	C	.	.	.	.	B	B	1				90	.	C	A	B	F	.	.	.	B	1			
		64		.	.	.	A	B	.	.	C	F	.	.	.	B	1		12FM6	12	80	30	E	C	A	B	.	F	.	.	A	A	1						
12DY8	12	65	29	E	C	F	A	B	F	.	.	.	.	.	.	A	B	1				88	.	C	A	B	F	.	.	.	B	1	
		88		.	.	.	A	B	.	.	C	F	E	.	.	A	B	1				88	.	C	A	B	F	.	.	.	B	1							
12DZ6	12	68	30	E	C	A	B	F	F	C	A	B	1		12FD7	12	68	7	1			
12DZ8	12	55	29	.	C	E	A	B	F	D	C	A	1				68	2					
		89		E	.	.	A	B	.	.	C	F	.	.	.	A	F	2		12FD8	12	98	29	F	E	.	A	B	.	C	.	.	A	A	1				
12E5	12	93	14	1					98	.	E	F	A	B	.	C	.	.	A	A	1					
12EA6	12	56	30	B	C	A	B	F	D	C	A	C	1				98	.	.	A	B	F	E	C	.	.	A	A	1					
12EC8	12	76	29	.	.	.	A	B	F	F	C	E	.	.	.	A	B	1				98	.	.	A	B	.	E	F	C	.	.	A	A	1				
		62		E	F	C	A	B	A	C	1		12FR8	12	86	29	E	A	.	A	B	.	F	.	A	B	1					
12ED5	12	57	3	.	.	.	.	.	.	.	.	.	.	.	.	.	1					84	.	A	.	A	B	.	F	.	B	1	
12EF6	12	65	24	.	A	F	D	E	.	B	C	.	.	.	.	C	E	1				70	.	E	A	B	F	.	.	.	B	1			
12EG6	12	75	29	E	C	A	B	F	F	E	B	C	1		12FS5	12	99	1	1				
12EH5	12	57	3	1			12FT6	12	80	30	E	C	A	B	.	F	.	.	A	A	1					
12EK6	12	70	30	E	C	A	B	F	F	C	.	.	.	.	.	A	B	1				88	.	C	A	B	F	.	.	.	B	1		
12EL6	12	99	30	E	F	A	B	.	.	C	.	.	.	.	.	A	C	1				88	.	C	A	B	F	.	.	.	B	1		
		90		.	.	.	A	B	F	C	B	1		12FV7	12	42	7	1					
		90		.	.	.	A	B	F	C	.	.	.	.	.	B	1					42	.	.	.	.	.	.	.	.	.	2	
12EM6	12	68	29	E	C	F	A	B	F	A	B	1		12FX5	12	68	3	1					
		94		.	C	.	A	B	.	.	F	B	1																						
				Good Over 60																																			

12FX8

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
12FX8	12	78	29	F	E	F	B	A		C	.	E	.	.	.	A	B	1		12HU8	12	58	29	D	E	F	A	B	.	C	.	.	.	.	B	A	1
		80				B	A	E		F	.	.	.	.	A	B	1					58				A	B	E		F	D			B	A	1	
12FY8	12	54	29	.	C	E	A	B	F	D	.	.	.	.	C	A	1			12J5	12	93	14	.	.	.	A	B	E		F	D				1	
		80		F	.	A	B			C	F	.	.	.	B	A	1			12J7	12	96	24	A	F	D	C		B	C					A	A	1	G	
12G4	12	89	30	.	A	B	F	E	C	C	A	1			12J8	12	64	29	E	C	F	A	B	F			A	B	1	
12G8	12	85	29	F	C	E	A	B							A	B	1				64				A	B		C	F				B	1					
		85		.	.	A	B	F	C	E	.	.	.	.	A	B	1					64				A	B	.	C	F	.	.		B	1		
12G11	12	91	23	A	C	E	C	F	D	.	.	.	.	B	A	1			12JB6	12	62	13	.	.	.	.	.	.	.	.	.	.	.	.	.		1
		54		A	.	.	.	.	E	C	D	F	B	C	A	1			12JF5	12	47	23	A	D	.	.	.	.	C	E	B	C	E	1	P		
12GA6	12	84	30	E	C	A	B	F	F	E	.	.	.	.	A	B	1			12JN6	12	60	28	A	C	D	C		F	.	C	F	B	D	E	1	
12G-B3	12	65	24	.	A	.	D	E	.	B	C	.	.	.	D	E	1	Z		12JN8	12	67	10	.	.	.	.	.	.	.	.	.	.	.		1	
12G-B6	12	69	24	.	A	.	D	E	.	B	C	.	.	.	D	E	1	Z				68			.	.	.	.	.	.	.	.	.		2		
12G-B7	12	61	24	.	A	.	D	E	.	B	C	.	.	.	D	E	1	Z		12J06	12	79	29	F	.	D	A	B	C	E	E	C	.		D	A	1		
12GC5	12	26	29	D	C	.	A	B	E	D	.	.	.	.	B	A	1				80			.	A	B	F	.	.	.	.			B	1		
12GC6	12	52	24	.	A	C	.	E	C	B	D	.	.	.	C	E	1	Z		12JS6	12	58	21		1	Z	
12GR6	12	65	23	A	D	E	C	.	.	F	.	.	.	B	D	E	1			12J15	12	65	28	D	E	C	A	B	.	C	F	.		D	E	1			
12GJ5	12	65	13	.	.	.	.	.	.	.	.	.	.	.	.	1	Z			12JZ8	12	55	23	A	.	F	.	E	D	C	.	B	C	E	1		
12G-K17	12	12	18	.	.	.	.	.	.	.	.	.	.	.	.	1					78			A	F	.	.	.	E	C	B	B	A	1			
12GN7	12	21	9	.	.	.	.	.	.	.	.	.	.	.	.	1				12K5	12	62	30	C	E	A	B	.	F	F	.	.		A	B	1	
12GT5	12	63	25	D	E	C	A	B	.	C	F	.	.	.	D	E	1			12K7	12	96	24	A	F	D	C		B	C				B	A	1	G		
12GW6	12	62	24	.	A	.	D	E	.	B	C	.	.	.	D	E	1	Z		12K8	12	99	24	.	A	F	D	E	.	B	C	.	.		A	A	1	G	
12H4	12	91	30	F	.	A	B	E	C	.	.	.	.	.	C	A	1				82			A	.	E	F	B	C	.		A	A	1	G		
12H6	12	67	24	.	A	F	C	.	.	B	.	.	.	.	B	1			12KL8	12	86	29	C	E	C	A	B	D	F	.	.		B	A	1		
		67		.	A	.	F	.	B	C	.	.	.	.	B	1					90			C	A	B	.	F	.		B	1					
12H31	12	91	1	.	.	.	.	.	.	.	.	.	.	.	.	1				12L6	12	47	14	.	.	.	.	.	.	.	.	.	.		1		
12H-B21	12	65	26	E	.	D	A	B	D	.	C	.	.	.	D	E	1	Z		12MD8	12	76	26	F	.	A	B	.	C	E	.		C	A	1				
12H-B25	12	40	26	E	.	C	A	B	D	.	C	.	.	.	C	E	1	Z				76			F	.	A	B	.	C	E	.		C	A	1			
12HE7	12	62	23	A	.	.	F	.	C	E	.	D	B	D	E	1					78			F	A	B	E	C	.		C	A	1						
		10		A	F	.	C	.	.	.	.	.	B	C	1				12NK7	12	72	24	E	F	C	.	.	A	B	.			B	A	1		
12HG7	12	28	9	.	.	.	.	.	.	.	.	.	.	.	.	1					72			.	E	F	C	A	B	.		B	A	1			
12HL5	12	44	29	.	E	C	A	B	.	F	D	.	.	.	C	A	1																						
12HL7	12	18	29	C	E	C	A	B	.	F	D	.	.	.	B	A	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	
12Q7	12	88	24		A	F				B	C					A	A	1	G	12SR7	12	92	24	C	E	C			F	A	B				C	A	1			
		87			A	F				B	C						B	1			85			C	D	F			A	B				B	1					
		87			A		F			B	C						B	1			85			C	C	F			A	B				B	1					
12R5	12	50	3																	12SS7	12	86	24		A	C	E	C	D	B	F				B	A	1			
12R-B12	12	50	29	D		E	A	B		C						C	E	1	Z	12SW7	12	93	24		E	C			F	A	B				C	A	1			
12R-K19	12	10	29			A	B				F					C	1	K			88				D	F			A	B				B	1					
12R-K21	12	14	29			A	B				F					C	1	K			88				C	F			A	B				B	1					
12R-LL3	12	55	7																	12SX7	12	91	24	E	F	C			A	B					C	A	1			
		55																			91					E	F	C	A	B				C	A	1				
12R-LL5	12	68	7																	12SY7	12	93	24	C	A	F	D	E	C	B	E					B	A	1		
		68																		12T10	12	90	19														1			
12S8	12	99	24		D			F		A	B					A	A	1	G		99															2				
		88			F	C				A	B						B	1		12U7	12	64	29	F	E	C	A	B								A	B	1		
		88			C	F				A	B						B	1			64				A	B	F	E	C					A	B	1				
		88				F	C			A	B						B	1		12V6	12	79	14														1			
12SA7	12	93	24	C	A	F	D	E	C	B	E					B	A	1		12W6	12	51	14														1			
12SC7	12	99	24		F	E			C	A	B					A	A	1		12X4	12	18	30	F		A	B			C						C	1			
		99				E	F	C		A	B						A	A	1			18			A	B	F	E	C						C	1				
12SF5	6	90	24		C	E	F			A	B					A	A	1		13CM5	12	57	24		A	D	E			B	C				D	E	1	Z		
12SF7	12	94	24		E	C	D	F		A	B					B	A	1		13OW4	12	80	22		F	E				C	B	A				A	F	2		
		88				C	F			A	B						B	1		13D1	25	72	24	E	F	C			A	B						B	A	1		
12SG7	12	77	24	C	A	C	E	C	D	B	F					B	A	1			72				E	F	C	A	B						B	A	1			
12SH7	12	77	24	C	A	C	E	C	D	B	F					B	A	1		13DE7	12	61	29	F		E	A	B			C						D	A	1	
12SK7	12	83	24	C	A	C	E	C	D	B	F					B	A	1			88				A	B	F	E	C							G	A	1		
12SL7	12	84	24	C	A	C	E	C	D	B	F					B	A	1		13DF7	12	83	29	F	E	C	A	B										A	A	1
		95			E	F	C			A	B					A	A	1			83				A	B	F	E	C							A	A	1		
12SN7	12	72	24	E	F	C				A	B					B	A	1		13DR7	12	64	29	F		E	A	B			C							D	A	1
		72				E	F	C		A	B					B	A	1			94				A	B	F	E	C							B	A	1		
12SQ7	12	99	24	D	E	C		F		A	B					A	A	1		13EM7	12	57	24	E	F	C			A	B								D	A	1
		85			C	C	F			A	B						B	1			95				E	F	C	A	B							B	A	1		
		85			C	C	F			A	B						B	1		13FD7	12	61	29	F		E	A	B			C							D	A	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	TB	C	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C
13FG7	12	68	10	1		14BF11	14	40	19	1		
13FG7		80		.	.	.	.	.	.	.	.	.	.	.	.	.	.	2				99		.	.	.	.	.	.	.	.	.	.	.	.	2	
13FM7	12	94	23	A	.	.	.	.	.	.	C	E	F	B	B	A	1		14BL11	14	32	23	A	F	.	.	.	.	C	D	E	B	B	A	1		
		62		A	E	F	.	.	C	.	.	.	B	D	A	1					55		A	E	C	.	.	F	.	B	B	A	1						
13FR7	12	60	29	F	E	A	B	.	.	C	.	.	.	D	A	1					73		A	.	E	C	F	.	B	B	A	1							
		99		.	A	B	F	E	C	.	.	.	.	B	A	1			14BQ11	14	68	23	A	F	D	C	E	C	.	.	B	B	A	1			
13GB5	12	34	26	E	C	A	B	D	.	.	.	.	.	C	E	1	Z				84		A	.	.	.	C	F	D	E	C	B	B	A	1		
13GF7	12	94	11	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		14BR11	14	52	28	A	E	D	C	.	.	F	B	B	A	1			
		60		.	.	.	.	.	.	.	.	.	.	.	.	.	.	2				71		A	.	C	F	E	.	B	B	A	1				
13J10	12	73	23	A	D	C	.	.	.	F	E	B	C	A	1						71		A	.	.	C	F	E	B	B	A	1							
		95		A	.	F	B	D	E	C	.	.	B	A	D	1			14C5	14	99	14	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
				Normally Shows Short On Grid Emission																																			
13JT8	12	25	29	.	.	A	B	C	E	D	F	.	.	B	A	1			14C7	14	89	27	A	F	D	C	E	C	B	.	.	B	A	1					
		75		C	E	F	A	B	.	.	.	.	.	A	A	1					90		A	F	.	B	C	.	.	B	A	1					
13JZ8	12	55	23	A	.	F	.	E	D	C	.	B	C	E	1						90		A	.	F	B	C	.	.	B	A	1							
		78		A	F	.	E	C	B	B	A	1							14E7	14	93	27	A	F	.	D	E	C	B	.	B	A	1						
13SJ7	12	83	24	C	A	C	E	C	D	B	F	.	.	B	A	1					84		A	F	.	C	B	.	B	A	1								
13V10	12	60	19	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1				84		A	F	.	C	B	.	B	A	1					
		99		.	.	.	.	.	.	.	.	.	.	.	.	.	.	2				93		A	.	E	F	C	B	.	A	B	1				
13Z10	12	73	23	A	D	C	.	.	F	E	B	C	A	1					14F7	14	93	27	A	C	F	E	.	B	.	A	A	1							
		95		A	.	F	B	D	E	C	.	B	A	D	1							93		A	.	E	F	C	B	.	A	B	1						
				Normally Shows Short On Grid Emission																																			
14A4	14	62	27	A	F	.	E	C	B	.	.	B	A	1					14G8	14	99	29	.	A	B	.	C	E	F	.	A	A	1						
14A6	14	35	27	A	F	D	.	E	C	B	.	B	A	1							61		C	.	A	B	F	.	B	A	1								
14A7	14	80	27	A	F	D	C	E	C	B	.	A	A	1							61		.	F	C	A	B	.	B	A	1								
14AF7	12	72	27	A	C	F	E	.	B	.	B	A	1						14QW8	14	52	29	.	D	A	B	F	C	E	.	B	A	1						
		72		A	.	E	F	C	B	.	B	A	1								95		E	C	A	B	.	F	.	A	A	1							
14B6	14	99	27	A	F	E	.	C	B	.	A	A	1						14H7	14	72	27	A	F	D	C	E	C	B	.	B	A	1						
		88		A	.	F	.	C	B	.	B	A	1								88		A	F	E	D	E	C	B	.	B	A	1						
		88		A	.	F	.	C	B	.	B	A	1									88		A	F	E	.	C	B	.	A	A	1						
14B8	14	88	27	A	F	C	E	D	E	C	B	.	B	A	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
14JG8	14	88	29	.	.	A	B	.	C	E	F	.	.	.	A	A	1			15BD11	15	50	23	A	F	C	D	E	B	B	A	1			
		60		C	.	A	B	F	.	.	.	.	.	.	.	B	1				62			A	.	C	E	F	.	.	B	B	A	1			
		60		.	F	C	A	B	.	.	.	.	.	.	.	B	1				66			A	.	E	F	.	C	.	.	B	B	A	1		
14N6	14	89	27	A	C	F	E	.	.	B	.	.	.	.	C	A	1			15CW5	15	84	29	E	C	A	B	F	D	.	.	C	A	1			
		89		A	.	.	E	F	C	B	C	A	1				15D08	15	57	29	.	A	B	F	C	E	D	.	.	B	A	1			
14Q7	14	88	27	A	F	D	E	C	E	C	B	.	.	.	B	A	1				80			E	F	C	A	B	.	.	.	.	B	A	1		
14R7	14	84	27	A	F	.	D	E	C	B	B	A	1				15EA7	15	59	24	E	F	C	.	.	A	B	.	.	D	A	1			
		90		A	.	F	.	.	C	B	.	.	.	.	B	1					92			.	E	F	C	A	B	.	.	.	B	A	1		
		90		A	.	F	.	.	C	B	B	1					15EW6	15	77	1	1		
14S7	14	89	27	A	F	E	D	E	C	B	.	.	.	.	A	A	1				15EW7	15	68	29	F	E	A	B	.	C	.	.	D	A	1		
		89		A	.	F	E	.	C	B	.	.	.	.	B	A	1					88			.	A	B	F	E	C	.	.	C	A	1		
14V7	14	85	27	A	F	D	C	E	C	B	B	A	1				15FM7	15	94	28	A	C	E	F	B	B	A	1			
14W7	14	64	27	A	F	D	.	C	E	C	B	.	.	.	B	A	1					62			A	.	E	F	C	.	.	B	D	A	1				
14X7	14	92	27	A	F	E	C	.	.	B	.	.	.	.	A	A	1				15FY7	15	56	28	A	.	E	F	C	.	.	B	D	A	1		
		62		A	.	C	F	.	B	.	.	.	.	.	B	1						99			A	.	.	.	C	E	F	B	B	A	1		
		62		A	.	C	F	.	B	.	.	.	.	.	B	1																					
14Y4	14	18	27	A	.	F	.	.	C	B	.	.	.	.	C	1				15HA6	15	23	9	.	.	.	.	.	.	.	.	.	.	.	1		
		18		A	.	.	.	F	C	B	C	1					15HB6	15	20	9	1			
14Y7	14	18	27	A	.	F	.	.	C	B	.	.	.	.	C	1				15KY8	15	55	25	.	E	C	A	B	F	D	.	.	C	A	1		
		18		A	.	.	.	F	C	B	.	.	.	.	C	1						99			C	.	A	B	.	F	E	.	B	A	1		
15A6	15	54	29	D	E	C	A	B	C	F	B	A	1				15LE8	15	57	29	F	C	C	A	B	.	D	E	.	B	A	1			
15A8	15	53	24	.	A	E	D	C	B	C	A	1					57			.	C	A	B	F	C	D	E	.	B	A	1			
		90		C	A	E	.	.	B	F	C	A	1				15MF8	15	60	23	A	.	F	.	.	E	D	C	.	B	C	A	1		
15A80	15	54	28	F	D	E	C	A	B	.	.	.	.	.	B	A	1					58			A	F	.	.	.	E	C	B	B	A	1		
		54		.	.	.	A	B	F	D	E	C	.	.	B	A	1				15M-P19	15	60	3	1		
15AF11	15	48	28	A	F	.	.	.	C	D	E	B	.	.	B	A	1				15MX8	15	90	25	C	.	A	B	.	F	E	.	A	A	1				
		71		A	.	.	C	E	.	F	.	.	B	.	B	A	1					50			.	E	C	A	B	F	D	.	C	A	1				
		76		A	.	E	F	.	C	.	B	.	B	.	B	A	1				16A5	16	52	29	E	C	A	B	F	D	.	B	A	1					
15BD7	15	79	29	F	E	C	A	B	.	.	.	.	.	.	A	A	1				16A8	16	54	29	.	C	E	A	B	F	D	.	C	A	1		
		83		.	C	A	B	F	.	.	.	.	.	.	B	1						88			E	.	A	B	.	C	F	.	B	A	1		
		83		.	C	A	B	.	F	.	.	.	.	.	B	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
32A8	30	54	29	.	C	E	A	B	F	D	.	.	.	.	.	C	A	1		35LR6	35	53	21	.	.	.	.	.	.	.	.	.	.	.	.	1	Z
				E	.	A	B	.	.	C	F	.	.	.	.	B	A	1		35W4	35	11	30	.	A	B	F	C	.	.	.	.	.	.	C	1	
32ET5	30	60	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		35Y4	35	12	27	A	F	.	.	.	C	B	.	.	.	.	C	1	
32HQ7	30	68	23	A	.	.	.	.	.	C	E	D	B	D	E	1			35Z6	35	12	27	A	F	.	.	.	C	B	.	.	.	.	C	1		
				A	F	.	C	.	.	.	.	.	.	B	.	C	1		35Z4	35	12	24	A	.	F	.	B	C	.	.	.	.	C	1			
32L7	30	64	24	A	F	D	E	.	.	B	C	.	.	.	.	C	A	1		35Z5	35	12	24	A	.	F	.	B	C	.	.	.	.	C	1		
				C	A	.	.	F	B	.	.	.	.	.	.	.	C	1		35Z6	35	12	24	A	F	C	.	B	.	.	.	.	C	1			
33GT7	30	60	23	A	.	F	.	.	.	C	E	D	E	B	D	E	1				12			A	.	F	.	B	C	.	.	.	.	C	1		
				A	F	.	C	.	.	.	.	.	.	B	.	C	1		36AM3	35	13	30	.	A	B	F	C	.	.	.	.	.	.	C	1		
33GY7	30	61	23	A	.	F	.	.	.	C	E	D	B	D	E	1			36KD6	35	38	21	.	.	.	.	.	.	.	.	.	.	.	.	.	1	Z
				A	F	.	C	.	.	.	.	.	.	B	.	C	1		36MC6	35	40	13	.	.	.	.	.	.	.	.	.	.	.	.	.	1	Z
38HE7	30	62	23	A	.	F	.	.	.	C	E	D	B	D	E	1			38A3	35	12	29	.	C	A	B	.	F	.	.	.	.	.	.	D	1	
				A	F	.	C	B	.	C	1		38HE7	40	52	23	A	.	F	.	C	E	D	B	D	E	1						
33JR6	30	55	25	D	E	C	A	B	.	C	F	.	.	.	.	D	E	1			10		A	F	.	C	.	.	.	.	.	.	B	.	C	1	
33JV6	30	53	23	A	C	D	C	.	.	F	.	.	E	B	D	A	1		38HK7	40	55	23	A	.	F	.	C	E	D	B	D	E	1						
34C08	35	10	12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1			15		A	F	.	C	.	.	.	.	.	B	.	C	1		
34CE3	35	11	12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		40FR5	40	54	3	.	.	.	.	.	.	.	.	.	.	.	.	.	1
34GM3	35	11	20	1		40KD6	40	45	21	1	Z
34DK3	35	10	20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	K	40K66	40	23	26	E	C	D	A	B	D	C	E	C	.	D	A	1	P
34GD5	35	57	3	1		40Z5	40	12	24	A	.	F	.	B	C	C	1	
34R3	35	14	29	.	.	A	B	.	.	F	.	.	.	.	.	.	C	1	K	42EC4	40	10	26	F	.	A	B	.	.	.	.	.	.	.	C	1	K
35A5	35	56	27	A	F	D	.	E	D	B	C	A	1		42KN6	40	35	21	1	Z	
35B5	35	55	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		45B5	50	34	29	E	C	A	B	.	F	D	.	.	.	.	C	A	1
35C5	35	54	3	1		45Z3	50	14	30	A	F	.	C	.	B	C	1	
35CD6	35	53	24	A	C	.	E	C	B	D	.	.	.	.	.	C	E	1	Z	45Z5	50	12	24	A	.	F	.	B	C	.	.	.	.	.	.	C	1
35DZ8	35	55	29	C	E	A	B	F	D	.	.	.	.	.	.	C	A	1		50A5	50	56	27	A	F	D	.	E	C	B	.	.	.	.	C	E	1
				E	.	A	B	.	.	C	F	.	.	.	.	A	F	2		50AX6	50	12	24	A	F	C	.	B	.	.	.	.	.	.	C	1	
35EH6	35	57	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1			12		A	.	F	.	B	C	.	.	.	.	.	.	.	C	1
35GL6	35	52	30	C	E	A	B	F	C	A	1		50B5	50	38	2	1	
35HB8	35	54	29	.	A	B	D	F	C	E	.	.	.	.	.	C	E	1		50BK5	50	53	29	F	E	E	A	B	C	.	D	.	.	.	B	A	1
				E	C	F	A	B	.	.	.	.	.	.	.	B	A	1		50BM8	50	54	29	C	E	A	B	F	D	.	.	.	.	.	C	A	1
35L6	35	54	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1			88		.	A	B	.	.	C	F	.	.	.	B	A	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
50C5	50	44	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	53KU	5	10	17	.	.	.	.	.	.	.	.	.	.	.	.	1
5006	50	45	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1																	2
50CA5	50	55	3	1	55N3	50	11	29	.	.	C	A	B	.	.	F	C	1		
50CD6	50	53	24	A	C	.	E	C	B	D	.	.	.	.	.	.	.	.	1	58HE7	50	52	23	A	.	.	F	.	C	E	D	B	D	E	1	
50DC4	50	12	30	.	.	A	B	F	C	.	.	.	.	.	.	.	.	.	1						A	F	.	C	.	.	.	B	.	C	1	
50E5	50	58	24	A	.	D	E	.	B	C	1	60EH6	50	57	3	1	
50EH5	50	57	3	1	60FX5	50	68	3	1	
50FA5	50	54	3	1	60HL5	50	44	29	.	E	G	A	B	.	F	.	D	.	.	.	C	A	1	
50FE5	50	37	14	1	64SPT	6	76	9	1
50FK5	50	88	3	1	213PEN	19	65	29	.	E	G	A	B	.	D	D	.	.	.	D	A	1	P	
50FY8	50	54	29	.	C	E	A	B	F	D	1	403B	6	63	1	1	
		80		E	.	A	B	.	D	F	.	.	.	.	.	.	.	.	1	407A	40	60	29	A	C	E	F	.	.	B	.	.	.	B	A	1
50GY7	50	61	23	A	.	.	F	.	C	E	D	B	D	E	1				1						A	.	.	F	E	C	B	.	.	B	A	1			
		12		A	F	.	C	B	.	C	1			1	408A	19	63	1	1		
50HC6	50	20	30	C	E	A	B	D	.	F	.	.	.	.	.	.	.	.	1	1003	6	18	24	.	.	F	.	.	.	E	.	.	.	E	D	1
50HK6	50	54	30	D	E	A	B	D	.	F	.	.	.	.	.	.	.	.	1						.	.	F	.	E	.	.	E	D	1		
50HN5	50	44	29	.	E	C	A	B	.	F	D	.	.	.	.	.	.	.	1	1201	7	62	27	E	A	F	C	.	.	B	.	.	.	B	A	1
50JY6	50	55	24	A	.	D	E	.	B	C	.	.	.	.	.	.	.	.	1	1208	7	64	27	A	.	F	.	.	C	B	.	.	.	B	1	
50L6	50	47	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1222A	6	63	24	A	F	D	E	.	B	C	.	.	.	C	A	1
50X6	50	12	27	A	.	.	F	.	C	B	1	1223	6	96	24	.	A	F	D	C	.	B	C	.	.	A	A	1	G		
		12		A	C	F	.	.	B	.	.	.	.	.	.	.	.	.	1	1232	7	55	27	A	F	D	C	.	E	C	B	.	.	B	A	1
50Y6	50	13	24	A	F	C	.	.	B	.	.	.	.	.	.	.	.	.	1	1273	6	89	27	A	F	D	C	.	E	D	B	.	.	B	A	1
		13		A	.	F	.	B	C	.	.	.	.	.	.	.	.	.	1	1274	6	18	27	A	.	F	.	.	C	B	.	.	.	C	1	
50Y7	50	13	24	A	F	C	.	.	B	.	.	.	.	.	.	.	.	.	1					A	.	.	F	C	B	.	.	.	C	1		
		13		A	.	F	.	B	C	.	.	.	.	.	.	.	.	.	1	1280	12	89	27	A	F	D	C	.	E	C	B	.	.	B	A	1
50Z6	50	14	24	A	F	C	.	.	B	.	.	.	.	.	.	.	.	.	1	1294	2	87	27	A	.	F	.	.	C	B	.	.	B	1		
		14		A	.	F	.	B	C	1	1611	6	91	14	1		
50Z7	50	14	24	A	F	C	.	.	B	1	1612	6	90	24	.	A	F	D	C	.	B	C	.	.	B	B	1	G		
		14		A	.	F	.	B	C	.	.	.	.	.	.	.	.	.	1	1614	6	66	24	.	A	F	D	E	.	B	C	.	.	C	A	1
53HK7	50	56	23	A	.	F	.	C	E	D	B	D	E	1					1	1616	3	56	24	.	A	F	D	E	.	B	C	.	.	C	A	1			
		11		A	F	.	C	B	.	C	1			1	1620	6	96	24	.	A	F	D	C	.	B	C	.	.	A	A	1	G		
				1	1621	6	91	14	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

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		
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		5726	6	77	1																		
1631	6	63	14															1		5726	6	62	30	F	A	B	C										B	1			
1632	12	47	14															1			62			C	A	B		F								B	1				
1634	12	99	24	F	E			C	A	B								A	A	1	5727	6	14	30	E	C	A	B	C	F						B	C	1			
		99				F	E	C	A	B								A	A	1	5749	6	78	1																	
1635	6	94	24	A	F	E			B	C								B	A	1	5750	6	91	1															1		
		94		A		E	F		B	C								B	A	1	5761	12	83	29	F	E	C	A	B								A	A	1		
1852	6	60	24	C	A	C	E	C	D	B	F							B	A	1		83				A	B	F	E	C						A	A	1			
1853	6	74	24	C	A	C	E	C	D	B	F							B	A	1	5763	6	82	29	F	D	A	B	D	C	E							C	A	1	
2033	6	60	30	F	A	B		E	C									B	A	1	5814	12	75	7															1		
		60		F	A	B	E	C										B	A	1		76															2				
2050	6	12	24	A	F	E	C	B	C									B	C	1	5822	6	15	29	E	C	A	B		F							B	A	1		
5591	6	63	1																	1	5824	25	48	14															1		
5642	1	39	24	A						B									1	Y	5838	12	15	17															1		
																						16																	2		
5649	12	92	14																	1	5839	25	15	17															1		
5651	1	98	30	F		F												E	D	1		15																2			
5654	6	63	1																	1	5844	6	70	30	F	A	B	E	C									B	A	1	
5659	12	82	14																	1		70			F	A	B	E	C									B	A	1	
5661	12	84	24	C	A	C	E	C	D	B	F							B	A	1	5852	6	15	17															1		
5670	6	60	29	A	C	E	F				B							B	A	1		15																2			
		60		A				F	E	C	B							B	A	1	5871	6	79	14																1	
5679	7	68	27	A	C	F				B								B	1		5879	6	99	29	E	C	A	B		D	F	C						B	A	1	
		65		A				F	C	B								B	1		5881	6	63	14																1	
5686	6	84	29	C	E	C	A	B	D	F	D							C	A	1	5915	6	92	1																1	
5687	12	56	29	F	E	C	A	B										C	A	1	5920	6	49	30	F	A	B	E	C										B	A	1
		56				A	B	C	E	F								C	A	1		49			F	A	B	E	C										B	A	1
5691	6	95	24	E	F	C			A	B								A	A	1	5931	5	15	17																1	
		95				E	F	C	A	B								A	A	1		15																	2		
5692	6	72	24	E	F	C			A	B								B	A	1	5932	6	63	14																	1
		72				E	F	C	A	B								B	A	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	
7370	40	75	7	1	7719	12	76	29	F	E	C	A	B	C	A	1	
		75		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7721	6	47	29	C	E	.	A	B	.	F	C	D	.	.	.	B	A	1
7408	6	80	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7722	6	51	29	C	E	.	A	B	.	F	C	D	.	.	.	B	A	1
7549	6	85	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7724	14	99	29	.	.	.	A	B	.	C	E	F	.	.	.	A	A	1
7551	15	59	29	C	E	D	A	B	F	C	.	.	.	.	.	.	.	.	1			61		C	.	.	A	B	F	.	.	.	.	.	.	B	1	
7558	6	59	29	C	E	D	A	B	F	C	.	.	.	.	.	.	.	.	1			61		.	F	C	A	B	.	.	.	.	.	.	.	B	1	
7581	6	64	14	1	7728	12	74	7	1	
7586	6	57	22	.	F	E	.	.	.	C	A	B	.	.	.	.	.	.	2			74		.	.	.	.	.	.	.	.	.	.	.	.	.	2	
7587	6	55	22	.	D	E	.	.	.	C	A	B	1	7729	12	89	29	F	E	C	A	B	A	A	1
7591	6	81	24	.	A	F	D	C	E	B	.	.	.	.	.	.	.	.	1			89		.	.	A	B	F	E	C	.	.	.	.	.	A	A	1
7607	6	56	24	.	A	D	E	C	B	1	7730	12	75	7	1	
7643	6	72	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1			75		.	.	.	.	.	.	.	.	.	.	.	.	.	2	
		55		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7731	6	79	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
7687	6	77	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1			55		.	.	.	.	.	.	.	.	.	.	.	.	.	2	
		67		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7732	6	64	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
7688	6	75	23	C	E	.	.	A	B	.	.	.	.	.	.	.	.	.	1	7733	12	42	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
		75		.	C	.	.	A	B	E	F	1	7738	6	69	30	F	E	A	B	C	B	A	1
		75		.	E	D	A	B	F	1	7764	6	58	29	D	.	.	A	B	E	C	.	F	D	A	1	
7689	6	89	23	C	E	.	.	A	B	1	7788	6	20	29	C	E	.	A	B	D	F	C	B	E	1	
		89		.	C	.	.	A	B	E	F	.	.	.	.	.	.	.	1	7867	6	58	24	.	A	D	E	C	B	D	.	.	.	.	.	C	E	1
		83		.	.	E	C	A	B	F	.	.	.	.	.	.	.	.	1	7868	6	78	25	D	E	C	A	B	.	.	F	.	.	.	C	A	1	
7690	6	74	23	C	E	.	.	A	B	.	.	.	.	.	.	.	.	.	1	7895	6	89	22	.	F	E	.	.	C	A	B	.	.	.	B	F	2	
		74		.	C	.	.	A	B	E	F	.	.	.	.	.	.	.	1	7898	14	73	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
		74		.	E	C	A	B	F	.	.	.	.	.	.	.	.	.	1			73		.	.	.	.	.	.	.	.	.	.	.	.	2		
7693	6	93	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7905	6	54	29	A	E	D	.	F	.	.	B	.	.	B	D	1		
7694	6	84	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7984	14	61	23	A	C	F	.	.	D	E	B	.	D	A	1			
7695	50	58	29	D	.	A	B	E	C	F	.	.	.	.	.	.	.	.	1	8016	1	55	15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
7699	12	45	29	E	C	A	B	F	D	.	.	.	.	.	.	.	.	.	1	8032	12	57	24	C	A	D	E	B	.	.	.	.	C	E	1			
		45		.	C	E	A	B	D	F	.	.	.	.	.	.	.	.	1	8056	6	78	22	.	F	E	.	.	C	A	B	A	C	1				
7701	14	89	29	C	E	.	A	B	F	D	.	.	.	.	.	.	.	.	1	8077	12	42	9	.	.	.	.	.	.	.	.	.	.	.	.	.	1	
7716	12	53	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	8102	14	68	29	.	.	.	A	B	F	D	C	E	.	.	B	A	1	
		96		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2			51		F	C	E	A	B	.	.	.	.	B	A	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
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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1			75			.	C	A	B	.	C	F	.	.	.	.	B	1	
8136	6	65	1	1		ECLL800	6	99	29	F	E	.	A	B	.	C	B	C	1	
8149	12	58	23	A	C	D	.	F	.	.	E	B	D	E	1	.	.																						
8150	12	56	23	A	C	.	D	.	.	.	E	B	D	E	1	Z	.				57			E	F	A	B	.	C	D	.	.	.	B	A	1			
8156	14	55	23	A	C	F	.	.	.	D	E	B	C	A	1	.	.				57			.	A	B	E	C	F	D	.	.	B	A	1				
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	E	C	.	A	B	.	F	.	.	.	.	.	B	A	1		EY82	6	11	29	.	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	Z	PL95	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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		PL805	17	22	29	E	D	A	B	F	C	.	.	.	.	B	A	1	
8425	6	82	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		TJ880	6	45	29	C	E	C	A	B	.	F	D	.	.	C	A	1	
8426	12	82	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		UAA91	19	62	30	F	A	B	C	.	.	.	.	.	.	.	.	B	1
8458	14	66	25	E	C	.	A	B	F	D	.	.	.	.	.	C	A	1			62		C	.	A	B	.	F	.	.	.	.	B	1			
		66		.	C	F	A	B	.	D	F	.	.	.	.	C	A	1		UC92	9	88	30	F	.	A	B	E	D	.	.	.	B	A	1		
8552	12	57	24	C	A	D	.	E	.	B	.	.	.	.	.	C	E	1	Z	UCC84	22	65	29	C	E	F	A	B	.	.	.	.	C	A	1		
8556	6	20	29	E	C	.	A	B	.	F	.	.	.	.	.	B	A	1			65		.	A	B	E	C	F	.	.	C	A	1				
8908	6	40	24	.	C	D	C	E	.	A	B	.	.	.	.	C	E	1	Z	UCF80	25	74	6	.	.	.	.	.	.	.	.	.	.	.	.	.	1
8950	12	45	21	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	Z		56		.	.	.	.	.	.	.	.	.	.	.	.	.	2	
9001	6	93	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		UF86	12	96	29	D	.	C	A	B	F	.	C	E	.	B	A	1	
9002	6	83	30	F	C	A	B	E	E	C	.	.	.	.	.	B	A	1		UY82	50	14	29	.	C	A	B	.	.	F	.	.	C	1			
9003	6	95	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1		X107	19	91	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1
9006	6	40	30	F	C	A	B	E	.	C	.	.	.	.	.	C	1					.	.	.	.	.	.	.	.	.	.	.	.	.	.
DC90	1	99	30	A	F	.	.	E	.	B	.	.	.	.	.	B	F	2				.	.	.	.	.	.	.	.	.	.	.	.	.	.
				Good Over 30																																			
DH77	19	85	30	E	C	A	B	.	.	F	.	.	.	.	.	A	A	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
		88		.	C	A	B	F	.	.	.	.	.	.	.	B	1					.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
		88		.	C	A	B	F	.	.	.	.	.	.	.	B	1					.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
E182CG	6	56	29	F	E	C	A	B	.	.	.	.	.	.	.	C	A	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
		56		.	.	.	A	B	F	E	.	C	.	.	.	C	A	1				.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
1C1	1R5	6T1	6AF4	ARH1	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	26AQ8	B36	12SN7	DF904	1U4
6C16	6BL8	10LD13	15BD7	B65	6SN7	DH63	6Q7
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	6AQ8	16A	6AM5	B319	7AN7	DH149	7C6
6CH40	6AJ8	19BD	19X3	B329	12AU7	DH710	6T8
6D1	6DR4	19SU	19Y3	B339	12AX7	DH719	6T8
6D2	6AL5	19U3	19X3	B719	6AQ8	DK32	1A7
6E8	6A8	19W3	19X3	BPM04	6AQ5	DK91	1R5
6F11	6AM6	20D4	6AJ8	C610	7J7	DK92	1AC6
6F12	6AM6	30C18	7GV7	CC81E	12AT7	DK96	1AB6
6F19	6BY7	30FL1	9GB8	CCA	6922	DK97	1AB6
6F21	6CQ6	30P18	15CW5	D2M9	6AL5	DL29	3D6
6F22	6267	30PL12	16A8	D63	6H6	DL31	1A5
6F23	6EH7	40SUA	1D5	D77	6AL5	DL33	3Q5
6F26	6BY7	52KU	5Z4	D152	6AL5	DL35	1C5
6F29	6EH7	63T1	6AB8	D193	3A4	DL36	1Q5
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	6AQ5	A1834	6AS7	DAF92	1U5	DL95	3Q4
6L34	6AQ4	AA91E	6AL5	DAF96	1AH5	DL96	3C4
6P9	6BM5	ABC91	12A6	DAF97	1AN5	DP61	6AK5
6PL12	6BM8	AR18	6Q7	DCC90	3A5	DY30	1B3
6Q8	6A8	ARDD3	6H6	DD6	6AL5	DY70	5642

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	1BQ2	EAA171	6AL5	ECC83	12AX7	ECL82	6BM8
E55L	8233	EAA901	6AL5	ECC84	6CW7	ECL84	6DX8
E80CC	6085	EAA901S	6AL5	ECC85	6AQ8	ECL85	6GV8
E80CF	7643	EABC80	6AK8	ECC86	6GM8	ECL86	6GW8
E80F	6084	EB34	6H6	ECC88	6DJ8	ECL821	6CH6
E80L	6227	EB91	6AL5	ECC89	6FC7	ED2	6AL5
E81CC	12AT7	EBC3	6BD7	ECC91	6J6	ED500	6ED4
E81L	6686	EBC80	6BD7	ECC180	6BQ7	EF5	6DA6
E82CC	12AU7	EBC81	6BD7	ECC186	12AU7	EF13	6DA6
E83CC	12AX7	EBC90	6AT6	ECC189	6ES8	EF22	7G7
E83F	6689	EBC91	6AV6	ECC230	6080	EF36	6J7
E84L	7320	EBF32	6B8	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	6CQ6
E91H	6687	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	6AQ4	ECF80	6BL8	EF98	6ET6
E180CC	7062	EC92	6AB4	ECF82	6U8	EF183	6EH7
E180F	6688	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	6CQ6	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	20AQ3
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	6BQ5	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	5763
EL91	6AM5	GZ30	5Z4	L63B	6C5	M8100	6AK5
EL95	6DL5	GZ32	5V4	L77	6C4	M8136	12AU7
EL180	12BY7	GZ34	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	6LN8	M8212	5726
EL505	6KG6	HABC80	19T8	LCF86	5HG8	M8232	6J4
EL508	6GW6	HBC90	12AT6	LCF200	5X9	M8245	6005
EL509	6KG6	HBC91	12AV6	LCF2D1	5U9	MV6/5	6SA7
EL802	6LD6	HCC85	17EW8	LCF8D1	5GJ7	N14	1C5
EL803	6CK6	HCH81	12AJ7	LCF802	6LX8	N15	3Q5
EL820	6CJ6	HD14	1H5	LCH200	5V9	N16	3Q5
EL821	6CH6	HD93	1X2	LCL80	4AB8	N17	3S4
EL822	6CH6	HD94	6BQ6	LCL82	11BM8	N18	3Q4
EL861	6686	HD96	25BQ6	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
EQ80	6BE7	HL86	30CW5	LF184	4EJ7	N119	45B5
EY81	6R3	HL90	19AQ5	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	27KG6	N154	16A5

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
N155	6BN5	PC92	3AB4	PL505	40KG6	QS2406	12AT7
N308	25E5	PC95	4GK5	PL508	17KW6	QV03/12	5763
N309	15A6	PC97	3FY5	PL509	40KG6	QV06/20	6146
N329	16A5	PC900	4HA5	PL521	19K06	QV06/20B	6883
N359	21A6	PCC84	7AN7	PL802	16LD6	QV06/20C	6159
N369	16A8	PCC85	9AQ8	PL820	21A6	QW77	6C06
N378	15CW5	PCC88	7DJ8	PLL80	12HU8	QZ77	6AM6
N379	15CW5	PCC89	7FC7	PM04	6BA6	R52	5Z4
N709	6BQ5	PCC186	7AU7	PM05	6AK5	R144	6AM6
N727	6AQ5	PCC189	7ES8	PM07	6AM6	RS2	5Z4
NCC189	4ES8	PCF80	9A8	PM95	6AK6	RS1029	6AM6
NR67	6L7	PCF82	9U8	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	6F6	PCF802	9JW8	PY500	42EC4	TS52	6J6
NR95	25L6	PCF805	7GV7	PY800	17Z3	TS229	5687
NU20	5Y3	PCF806	8GJ7	PY801	17Z3	TS876C	12BY7
OBC3	12SQ7	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	18GV8	QA2407	6X4	U31	25Z4
OM6	6K7	PCL86	14GW8	QA2408	6SN7	U37	1T4
OSW2190	6AC7	PD500	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	6SQ7	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	QM559	6AL5	U78	6X4
OSW3112	6J5	PL84	15CW5	QQE03/12	6360	U82	7Y4
PABC80	9AK8	PL86	14GW8	QQV03/10	6360	U119	38A3
PC86	4CM4	PL500	27GB5	QS150/40	0D3	U147	6X5
PC88	4DL4	PL504	28GB5	QS2404	5726	U149	7Y4

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	8BQ5
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	16AQ3
UBC81	15BD7	VT96	6N7	X107	18FX6	YC95	3ER5
UBF80	17C8	VT97	5W4	X119	19D8	YC97	3FY5
UC92	9AB4	VT99	6F8	X148	7S7	YCC189	5ES8
UCC85	26AQ8	VT102	6K6	X150	6C10	YCF86	5HG8
UCH80	14Y7	VT103	12SQ7	X155	6BZ8	YCL180	5BQ7
UCH81	19D8	VT105	6SC7	X719	6AJ8	YF183	4EH7
UCL82	50BM8	VT107	6V6	X727	6BE6	YF184	4EJ7
UF80	19BX6	VT112	6AC7	XAA91	3AL5	YL84	10BQ5
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	55N3	VT124	1A5	XCC82	7AU7	Z14	1N5
UY85	38A3	VT125	1C5	XCC189	4ES8	Z63	6J7
U2M70	6X4	VT126	6X5	XCF80	4BL8	Z77	6AM6
V177	6CQ6	W17	1T4	XCF82	5U8	Z152	6BX6
V741	6C4	W25	1AJ4	XCF86	5HG8	Z719	6BX6
V884	6CQ6	W77	6CQ6	XCF801	4GJ7	Z729	6267
V886	6AM5	W149	7B7	XCH81	3AJ8	Z749	6EL7
VP6	6CQ6	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		