



ANSI LUMINOUS TUBE FOOTAGE CHART

TRANSFORMER RATINGS					NORMAL MAXIMUM NUMBER OF FEET OF TUBING OPERATED (Based on average grade of tubing)										
SECONDARY VOLTAGE (VOLTS)	SECONDARY CURRENT (mA)	PRIMARY RATING AT SECONDARY SHORT CIRCUIT (VOLT-AMPERES)		APPROXIMATE WATTS CONSUMPTION AT 115 VOLTS 60-HERTZ	Clear or Fluorescent Red (Also recommended for Neon Fluorescent Gold)										
		NORMAL POWER FACTOR	HIGH POWER FACTOR		TUBE SIZE, MILLIMETERS										
					25	22	20	18	15	14	13	12	11	10	9
15,000	60	900	450	463	102	85	78	72	60	54	50	45	39	33	27
	30	450	225	234	102	85	78	72	60	54	50	45	39	33	27
	20	300	150	151					50	47	44	40	34	27	24
12,000	60	720	360	374	79	67	61	55	45	42	39	35	30	25	21
	30	360	180	187	79	67	61	55	45	42	39	35	30	25	21
	20	240	120	125					40	38	33	30	26	21	18
10,500	30	360	170	140	73	62	55	48	39	36	34	31	26	22	18
9,000	120	1080	540	561	77	65	55	46	38	34	33	30	25	22	17
	60	540	270	281	67	57	48	40	33	30	29	26	22	19	15
	30	270	135	140	67	57	48	40	33	30	29	26	22	19	15
	20	190	95	99					28	26	24	22	18	15	13
7,500	120	900	450	463	59	47	39	32	28	26	25	23	18	15	13
	60	450	225	234	51	41	34	28	24	23	22	20	16	13	11
	30	225	115	117	51	41	34	28	24	23	22	20	16	13	11
6,000	20	160	80	86					22	21	20	18	14	12	10
	120	720	360	374	46	39	32	26	22	20	19	18	15	12	10
	60	360	180	187	40	34	28	23	19	18	17	16	13	11	9
	30	180	90	94	40	34	28	23	19	18	17	16	13	11	9
	20	140	70	73					17	16	15	14	10	9	7
5,000	120	600	300	312	38	32	26	22	19	18	17	14	11	10	8
	60	300	150	156	33	28	23	19	17	16	15	12	10	9	7
	30	160	80	83	33	28	23	19	17	16	15	12	10	9	7
	20	110	55	55					14	13	13	11	8	7	6
4,000	60	240	120	125	27	23	19	16	13	12	11	10	8	7	6
	30	140	65	73	27	23	19	16	13	12	11	10	8	7	6
	20	90	45	50					11	10	10	9	7	6	5
3,000	60	190	95	94	17	14	12	10	10	9	9	8	7	6	5
	30	100	50	52	17	14	12	10	10	9	9	8	7	6	5
	20	75	38	42					8	8	7	6	5	4	4
2,000	30	75	38	42					7	6	6	6	5	4	4
	20	50	25	29					6	5	5	5	4	3	3
RECOMMENDED GAS PRESSURE mm/Hg					6	7	7.5	8	9	10	10	11	12	13	15



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		NORMAL MAXIMUM NUMBER OF FEET OF TUBING OPERATED. (Based on average grade of tubing)																					
SECONDARY VOLTAGE (VOLTS)	SECONDARY CURRENT (mA)	Clear or Fluorescent Mercury Filled Tubes, all colors Indoor applications (40°F Temp or above) TUBE SIZE, MILLIMETERS										Clear or Fluorescent Mercury Filled Tubes, all colors Outdoor applications TUBE SIZE, MILLIMETERS. For Temperature Below 40°F (4.5°C)											
		25	22	20	18	15	14	13	12	11	10	9	25	22	20	18	15	14	13	12	11	10	9
15,000	60	120	100	90	80	72	64	60	54	47	40	32	90	76	69	65	54	47	45	40	35	30	24
	30	120	100	90	80	72	64	60	54	47	40	32	90	76	69	65	54	47	45	40	35	30	24
	20					62	56	52	47	40	34	28					45	41	39	36	30	25	20
12,000	60	95	79	70	62	55	50	46	42	36	30	25	71	60	55	49	40	37	36	31	27	22	19
	30	95	79	70	62	55	50	46	42	36	30	25	71	60	55	49	40	37	36	31	27	22	19
	20					47	45	40	34	30	26	20					36	33	29	26	22	19	15
10,500	30	88	73	63	54	48	43	40	37	32	26	22	64	55	47	42	36	32	30	27	23	20	16
9,000	120	92	77	63	52	46	41	38	35	30	26	20	69	59	50	41	35	31	30	26	23	19	15
	60	80	67	55	45	40	36	33	31	26	23	18	60	51	43	36	30	27	26	23	20	17	13
	30	80	67	55	45	40	36	33	31	26	23	18	60	51	43	36	30	27	26	23	20	17	13
	20					34	31	29	26	22	18	16					25	23	22	20	18	13	11
7,500	120	70	55	45	36	32	31	27	22	18	14	52	42	35	29	24	23	23	21	17	14	11	
	60	61	48	39	31	28	27	27	24	19	16	12	46	37	30	25	21	20	20	18	15	12	10
	30	61	48	39	31	28	27	27	24	19	16	12	46	37	30	25	21	20	20	18	15	12	10
	20					25	25	23	21	17	13	11					19	18	18	16	13	11	9
6,000	120	55	46	37	30	26	24	23	20	17	14	13	41	36	29	23	19	17	17	16	14	11	9
	60	48	40	32	26	23	21	20	18	15	12	11	36	31	25	20	17	15	15	14	12	10	8
	30	48	40	32	26	23	21	20	18	15	12	11	36	31	25	20	17	15	15	14	12	10	8
	20					20	19	17	16	12	11	8					15	14	14	12	9	8	6
5,000	120	46	38	31	25	22	22	18	16	14	12	9	34	29	23	19	17	16	16	14	10	9	7
	60	40	33	27	22	19	19	16	14	12	11	8	30	25	20	17	15	14	14	12	9	8	6
	30	40	33	27	22	19	19	16	14	12	11	8	30	25	20	17	15	14	14	12	9	8	6
	20					17	15	15	13	10	8	7					13	12	12	10	7	6	5
4,000	60	32	27	22	18	16	14	13	12	10	8	7	24	20	17	15	12	11	11	10	7	6	5
	30	32	27	22	18	16	14	13	12	10	8	7	24	20	17	15	12	11	11	10	7	6	5
	20					13	12	12	11	8	7	6					10	9	9	8	6	5	4
3,000	60	22	18	16	14	12	10	10	10	8	7	6	14	12	11	9	9	8	8	7	6	5	4
	30	22	18	16	14	12	10	10	10	8	7	6	14	12	11	9	9	8	8	7	6	5	4
	20					10	9	8	7	6	5	5					8	6	6	6	5	4	4
2,000	30					9	8	8	7	6	5	5					6	6	5	5	5	4	3
	20					7	7	7	6	5	4	4					5	5	4	4	4	3	2
		6	7	7.5	8	9	10	10	11	12	13	15	6	7	7.5	8	9	10	10	11	12	13	15

The above chart is only a guide. For proper loading use the flicker test for neon or a neon and mercury combination, the secondary voltage test as outlined on pages 39 and 40, or our Selektor™

- Each pair of electrodes equals 1 additional foot of length.
- Helium footages should be calculated at 50% of neon footages.
- For trouble-free operation, the tubing on each transformer should operate without flicker at 78% of rated primary voltage (approximately 94-volts at a nominal line voltage of 120).