

Kia Ora Cirkut Gears - Thu Mar 12 08:21:56 2015

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Original BASIC program by Bob Lang / Al Rosenbaum

Translated to C++ by Bruce Christie <xtie@extra.co.nz>

Subject distance measured from:	film plane
Actual focal length of lens:	18 inches
Large gear radius:	6 inches
Diameter of film drum:	3.66 inches
Center of small gear to lens axis:	0.559 inches
Center of small gear to film plane:	-2.28 inches
Slit width:	0.25 inches
Gear pitch:	32

GEAR #	SUBJECT DISTANCE (FEET)	LENS EXTENSION (INCHES)	PIVOT TO SUBJECT DISTANCE (INCHES)	f/ MULTI- PLIER	IMAGE MAGNIF- ICATION
40	-88.670	-0.295	-1072.924	0.98	-0.02
39	1157.607	0.023	13882.423	1.00	0.00
38	87.768	0.319	1044.373	1.02	0.02
37	45.243	0.640	534.085	1.04	0.04
36	30.597	0.981	358.343	1.05	0.05
35	23.754	1.308	276.242	1.07	0.07
34	19.268	1.674	222.434	1.09	0.09
33	16.524	2.022	189.520	1.11	0.11
32	14.373	2.417	163.723	1.13	0.13
31	12.855	2.806	145.519	1.16	0.16
30	11.711	3.197	131.809	1.18	0.18
