Reeny
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12 METER MILLIMET	er wave telescop
MEMO No.	194.

TO: J. W. FIN

L. J. KING Kp Cin FROM:

SUBJECT: ANALYSIS OF 12M REFERENCE JIG ON 2 SUPPORTS

THE DEFLECTION CALC OF THE REFERENCE JIG (R/J) IS BASED ON (1) 12M DRAWING #87000005. (2) R/J SUPPORTED AT THU ENDS CNLY. (3) R/J MODEL CONSISTED OF

14 JUINTS --- 2 SUPPORTS & 12 TRANSDUCER CONTACT PTS. 13 MEMBERS --- PROPERTIES OF EACH UNIFORM MEMBER ARE BASED ON AN AVG SECTION OF ITS TWO ENDS.

THE DEAD LCAD DEFLECTIONS OF THE R/J DUE TO THE ROTATION FROM HORIZONTAL TO 17.886 DEGREE TILTED POSITION ARE:

+ I		+ I	DEFLECTIONS	W.R	.T. SENSOR AXIS	
1	NO.	I	PARALLEL TO	I'	PERPENDICULAR	0
т- І	1	+ I	15 MU	+= I	-1 MU	•==1
I	2	I	28	Ī	-2	j
I	3	I	40	Ι	-4	1
I	4	Ι	49	1	-7	1
I	5	I	53	Ι	-10	]
I	6	I	51	I	-13	1
I	7	I	44	I	-15	1
I	8	I	43	1	-15	]
I	9	I	32	I	-17	]
I	10	I	19	1	-18	]
I	11	I	7	I	-19	1
I	12	I	-6	I	-19	1
<b>+</b> ·		+ NO	TE: SENSOF AXI OF M MU=.001 MM	+- S AN EMD	GLE = CONTACT AN #167 (8/21/82).	GL E

## Y Martine X Y Martine X SENSOR #10 DEFL. Arts

## FIG. 1. R/J GEOMETRY AND DEFLECTION AXES

10/04/82 2