

12 METER MILLIMETER WAVE TELESCOPE
MEMO No. 157

12-METER PANEL EDGE POSITIONS

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1. Memo No. 154, dated April 19, has only just reached me. It shows slight changes in the panel edge coordinates and larger changes in the tooling hole coordinates. These latter do not much concern me (see paragraph 3). But, I have to be sure that the sensor positions now built into the template and the reference jig do still safely contact points on the surface panels.
2. So, from Memo No. 154 and my notebook notes of October 7, 1981, I derive the radial distance R (measured in the X,Y plane of the antenna coordinates) to the various panel points and also to my depth sensors

Panel Point	$R=(X^2+Y^2)^{1/2}$ to the Panel Point	R to the Nearby Depth Sensor
Inner #1	609.114 mm	616.466 mm
Inner edge at center	604.063 mm	616.466 mm
Inner #2	3888.977 mm	3863.566 mm
Inner #3	3888.969 mm	3863.556 mm
Outer #4	3891.185 mm	3933.134 mm
Outer #5	6009.419 mm	5941.520 mm

3. Do the new tooling holes interfere with depth sensor contacts? No, they all avoid depth sensors by 25 mm or more. It is worthy of note that, if the table is right, the extreme diameter of the telescope is 12.019 meters, so watch out for the building clearance