Radiation Treatment Planning Dosimetry Verification

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Radiation Treatment Planning Dosimetry Verification

TASK GROUP #23
OF RADIATION THERAPY COMMITTEE

Members

Daniel W. Miller, Chair
Peter H. Bloch
John R. Cunningham
Bruce H. Curran
Geoffrey S. Ibbott
Douglas Jones
Shirley Z. Jucius
Dennis D. Leavitt
Radhe Mohan
Jan van de Geijn

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A Test Package Prepared by Task Group 23 of
The American Association of Physicists in Medicine

This test package is intended to provide a mechanism for verifying the accuracy of a defined set of computer-assisted treatment planning dose calculations for external photon beams. The package is a series of dose computation bench marks derived from physical measurements.

The test package was developed with support from the National Cancer Institute of the United State Department of Health and Human Services.

A. Package Contents

Experimental data describing the basic characteristics of two clinical x-ray beam energies are supplied as treatment planning system input beam data. Measured dosimetry data for a set of treatment planning dose comparison test cases are given for these two treatment beams.

Beam data and test case results were acquired with the following clinical treatment units:

(a) Varian Clinac-4, 4 MV x-ray beam lead flattening filter
Located at Duke University Medical Center, Durham, NC

(b) AECL Therac-20, 18 MV x-ray beam
Located at Loma Linda University Medical Center, Loma Linda, CA

Characteristic data for these radiation beams are supplied with the package in a variety of formats to accommodate the range of treatment planning systems identified when the test package was designed. Transverse dose profiles and central axis depth dose form the basic description of does profiles and central axis depth dose form the basic description of dose distributions. Additional information includes relative dose a s a function of collimator settings, radiation transmission factors for beam modifiers, computed tissue-air rations, computed scatter-air ratios and various geometric treatment unit specifications.

Measured test case results are provided for treatment planning radiation conditions selected to isolate different aspects of the dose computation process. These cases represent benchmarks for comparison against computed values. Worksheets are included to present measurement results and record corresponding computed values for a formal set of dosimetry comparison points within each test case radiation field. Worksheet measurement results are stated relative to the treatment unit calibration condition to preserve the overall effects of test case beam modifications and to provide a test of treatment monitor unit computation. Complete test case dose distributions are also included for relative dose comparison with computed distributions.

Disclaimer: TG-23 treatment unit beam data must not be used as data for patient treatment. The data are intended to be consistent with corresponding dose comparison test cases and are not intended to represent a description of beam characteristics for clinical use. Particular care should be given to separating all test package data from clinical treatment planning data. Although a variety of dose comparison test conditions are included, these benchmarks should not represent the sole means of treatment planning accuracy confirmation. The user must provide independent verification of data describing radiation beams in clinical use and should expand the scope of accuracy tests to include the range of treatment methods and dose computation conditions relevant to local clinical practice.

B. General Instructions

Data describing the standard beams should be selected from the package and entered into the treatment planning computer system according to instructions provided by the manufacturer of the system. Verification of proper and complete entry of beam data should be made without referring to test case results. When alternative methods of beam data entry are provided, test package beam data should be processed in the manner most consistent with clinical practice.

Once the standard radiation fields are successfully entered into the planning system, treatment planning dose computations for the test cases should be run as if the cases were treatment plans. All relevant dose computation options such as variation of dose matrix dimensions and computation model choices should be explored. Dose modification factors relating treatment planning computation results to test package beam calibration conditions should be applied as if computing treatment machine monitor units for actual application of each test case beam. Results should be recorded in comparison with measured values o the test package worksheets. Relative dose distributions for test case radiation fields should also be compared by overlaying computed and measured dose profiles or isodose curves. Overlay of dose profiles is preferable, if available, since test case isodose curves proved with the package contain unavoidable interpolation errors.

C. Beam Data Description

Coordinate System The following coordinate system is defined relative to the water phantom for clarification of beam data and test case geometry:

> The **origin** is at the treatment unit isocenter.
>
> The **y-axis** is perpendicular to the beam entry surface of the water phantom and directed outward from the phantom. With the exception of the oblique entry test case, the y-axis coincides with the beam central axis and is directed toward the source.

The **x-axis** is directed to the left of the y-axis and the xy-plane is perpendicular to treatment unit axis of rotation.

The **z-axis** coincides with the treatment unit gantry axis of rotation and is directed away from the base of the machine.

Beam characteristics for the two test package beam energies are supplied as printed tables, full-scale graphic plots or as data files on IBM PC compatible floppy disks. Software provided on the disks may be used to transfer, display or interpolate dose values from either the beam data or the test case radiation fields. However, the user should not bypass the normal method of data entry if that method potentially contributes to treatment planning dose errors. tabulated beam profiles (OCR tables) are given in terms of the dimensionless off-axis position x/h where x is the distance from the central axis and h is field half-width projected to the depth of the dose profile. Half-width for production of OCR tables from measured dose profiles is the geometric projection of the radiological half-width (half the distance separation 50% dose at the depth of maximum dose). This process avoids possible discrepancy between nominal and radiological sizes and introduces minimum distortion into the OCR table for field size setting errors of the order of 1 mm. Profile plots show the left half of symmetric fields and full profiles for wedge fields. The full measured data set is included in ASCII files on the floppy disk set.

The left-half (negative x) of radiation fields were used to generate half-profile plots and half-field OCR tables. Tn order to provide data well beyond the field edge in a limited size water phantom (50 X 50 cm) only a portion of the right-hand (positive x) side of large fields was scanned. Therefore, all test case dosimetry comparison points, with the exception of wedges and oblique incidence, were confined to the left-hand side of radiation fields. Field asymmetries of the order of 1% may affect computation of right-side wedge and oblique incidence dosimetry comparison points from left-side beam data. Refined computation of right-side dosimetry points may be made by using full-field profiles available from the computer disks.

The following data are provided to describe the 4 MV and 18 MV test package beams:

1. Open field beam profiles and central axis depth dose are provided for even-dimension fields from 4 x 4 cm through 32 x 32 cm. Source-surface distance (SSD) is 80 cm for 4 MV and 100 cm for 18 MV.

2. Wedge field beam profiles and depth dose are included for 8 x 8 cm and 10 x 10 cm field sizes.

3. Variable SSD fields, 8 x 8 and 12 x 12 cm fields at 65 cm SSD for 4 MV, 6 x 6 and 10 x 10 cm fields at 80 cm SSD, are included. Field sizes are defined at the surface.

4. Beam profiles across the diagonal of 32 x 32 cm fields are given in water and in air.

5. Beam profiles for the longitudinal direction, parallel to the treatment unit axis of rotation, are provided in water and in water and in air for the 32 x 32 cm fields. Note that these beam profiles are orthogonal to the standard transverse plane data set.

6. Transverse beam profiles are given in air for the 32 x 32 cm open fields, and for fields modified by means of a half-beam block.

7. Shielding block, blocking tray and wedge transmission factors are given along with dimensions, locations and materials.

8. Water half value layer on the beam central axis and along off-axis ray lines is tabulated.

9. Computed tissue-air ratio and scatter-air ratio tables are included for 4 MV, and a tissue phantom ratio table is provided for 18 MV. These tables are computed from equations found in the British Journal of Radiology, Supplement 17. Relative peak scatter factors required to generate these tables were taken as the ratio of measured dose rate in phantom to measured dose rate in air. Users are encouraged to work from the directly-measured depth dose data rather than these computed tables, if possible.

D. Dosimetry Comparison Test Cases

Measured dose is tabulated at multiple points within each test case radiation field. These data are provided on forms containing blank space for entering corresponding values computed by the treatment planning system. Comparisons for mid-field points are made in terms of the difference between measured and computed doses. This provides a means of quoting dose discrepancy relative to maximum dose rather than relative to dose at the local point. Comparisons in the penumbra region are made in terms of radiological field width. This quantity is defined as the distance (cm) separating points that are half the value of dose on the central axis at the comparison depth. This method of dose comparison provides a measure of the accuracy of isodose contour position in regions of high dose gradient.

A more detailed comparison of the shapes of computed and measured radiation fields may be made from test case dose distributions provided as printed tables, ASCII files and graphic plots of beam profiles, depth dose curves and isodose distributions. However, these data are not normalized to the 10 x 10 cm reference fields, limiting dosimetry comparison to relative dose within the test fields. Note that measured dose distributions will not agree exactly with values tabulated on test case worksheets since the dose distributions and test case worksheet data were measured independently.

Uncertainty in the consistency of test case results and beam data is estimated to be ±82%. Therefore, discrepancies between computed dose and measured dose which are less than 2% could be attributed to experimental error.

The following test cases are provided. Unless specified, source-to-surface distance is 80 cm for 4 MV cases and 100 cm for 18 MV. All blocks are mounted on plastic trays. Refer to tet case work sheets for additional details describing test case conditions.

1. Square Fields

Dose calculations for 5 x 5, 10 x 10 and 25 x 25 cm fields test the capability of the treatment planning system to compute dose in beams similar to input data conditions. These test cases are particularly important for dose computation algorithms utilizing variable data fitting parameters and computation models that minimize beam data input requirements.

2. Rectangular Fields

Rectangular fields are produced by setting collimator jaws without collimator rotation to provide the field sizes of 25 x 5 cm and 5 x 25 cm (x-dimension x z-dimension). Points for dose comparison are in the central xy-plane.

3. SDD Variation

The effect of change in source-to surface distance is examined by measurements simulating SAD set-ups. The isocenter is placed at 10 cm depth (70 cm SSD) for the 4 MV test case and placed at 15 cm depth (85 cm SSD) for the 18 MV test case. Field size at the isocenter is 10 x 10 cm.

4. Wedge Filter

Measurements are made in a 9 x 9 cm field modified by a 45-degree wedge.

5. Central Block

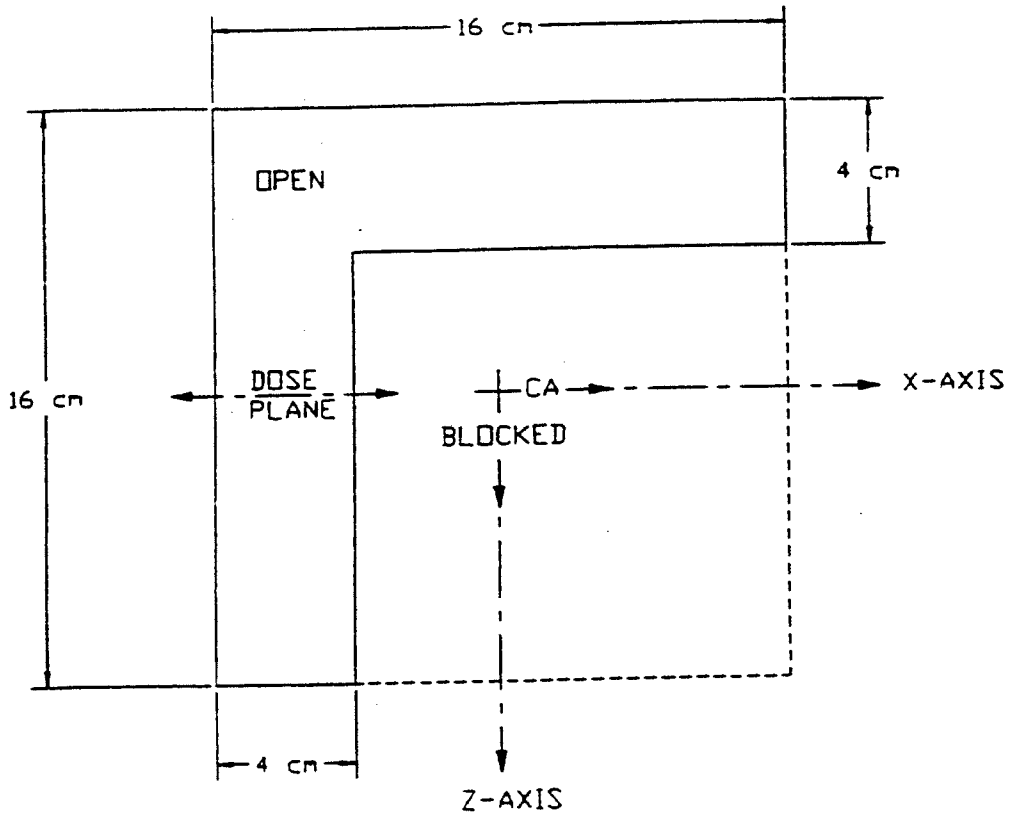
An untapered shielding block 1 cm wide, 7 cm thick and 4 cm in length is centered within a 16 x 16 cm field. These dimensions refer to the block itself rather than its projected size.

6. Off-Center Plane

Dose measurements are within a transverse plane displaced by 4 cm from the central plane of a 10 x 10 cm field.

7. Irregular Field

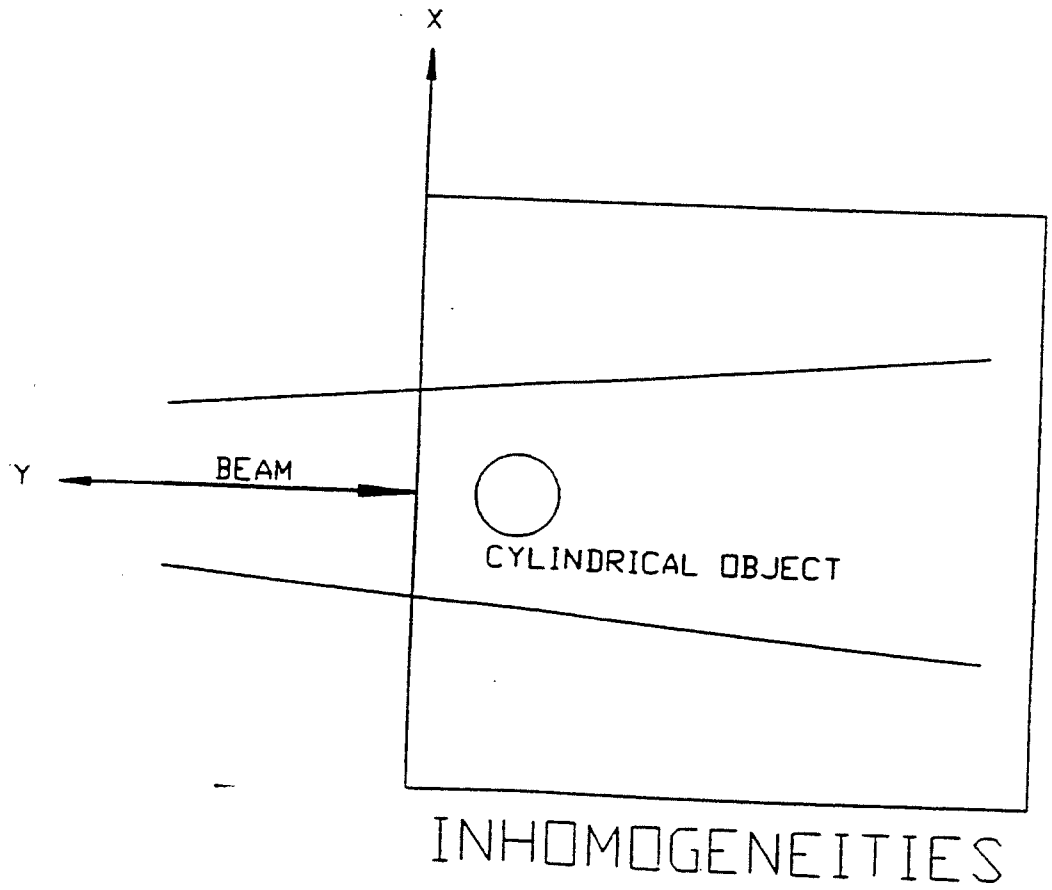
An "L'-shaped irregular field is constructed by removing a 12 x 12 cm portion from one corner of a 16 x 16 cm field by means of an 8.0 cm thick, tapered, allow block. The measurement plane is orthogonal to one arm of the "L" and through the central axis of the beam. Dose comparison points are given at multiple depths on the central axis (under the block) and 6 cm off axis within the open portion of the field.



IRREGULAR FIELD

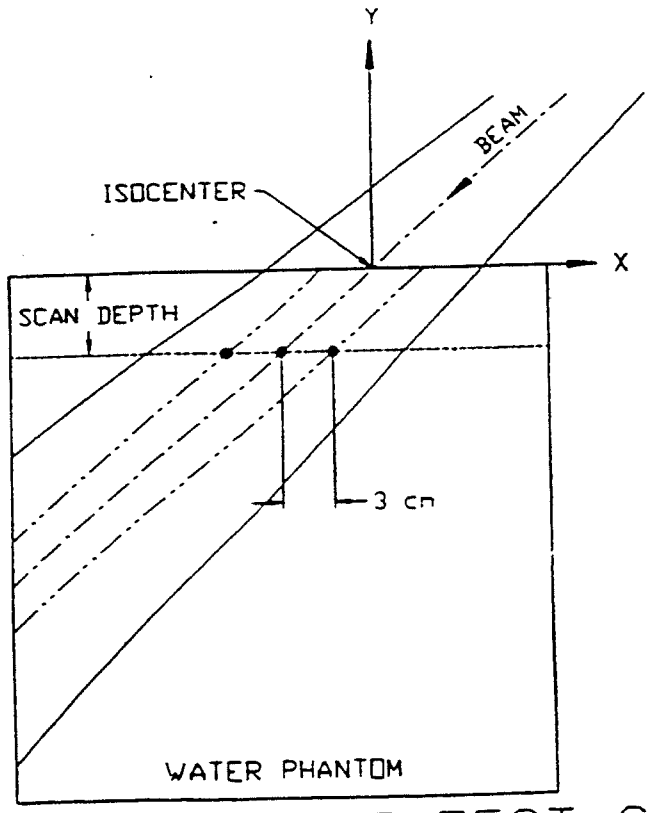
8. Inhomogeneous Medium

Lung-simulating and bone-simulating inhomogeneities made from epoxy-based tissue substitute materials are suspended in the water phantom and measurements performed within the central plane of a 16 x 16 cm field for both the 4 MV and 18 MV beams. A test case for the 18 MV beam is also given for a 6 x 6 cm field to give greater emphasis to secondary electron effects. The lung-simulating cylinder (0.29 g/cc) is muscle-equivalent in composition, 6 cm in diameter and 12 cm long. The bone-equivalent cylinder (1.4 g/cc) is 2 cm in diameter and 12 cm long. The objects were placed in the water phantom with their aces parallel to the surface. The center of the lung substitute was placed at 8 cm depth and the center of the bone substitute was located at 6 cm depth. The central axis of the beam passes through the center of the cylinder and measurement results are provided within the center , xy-plane (z = 0), perpendicular to the axis of the cylinder.



9. Oblique Incidence

The ability of treatment planning systems to account for oblique incidence and skin contour variation are tested by comparison with measurements made in a water phantom with the beam incident at a 45-degree angle. Points for dosimetry comparison are along beam profiles measured at constant depth, parallel to the phantom surface rather than perpendicular to the beam direction. Field size, perpendicular to the beam direction, is 10 x 10 cm at the machine isocenter.



OBLIQUE INCIDENCE TEST CASE

E. Measurement Technique and Consistency Checks

All data were obtained from measurements made in a water phantom with a parallel-plate ion chamber having an active volume 2.5 mm wide, 11 mm long, 2.5 mm electrode separation and 0.5 mm polystyrene entrance window. Correction for accelerator dose rate variation was made by normalizing ion chamber response to the signal form a reference detector. Signals from the measuring probe and reference detector were processed by dual electrometers and normalized with an analog voltage divider. A diode reference was used for the 4 MV data set and divider output was recorded on an analog plotter. These plots were entered into a DEC PDP11/34 computer by means of a calibrated digitizer and saved on magnetic tape. A Wellhofer WP600 digital radiation field scanning system operating with an ion chamber as the reference detector was used to acquire and recorded 18 MV data on IBM PC compatible disks.

Beams modified by blocks, wedges or inhomogeneities were scanned first without the modifier to provide open-field beam data. The modifier was then inserted with no other disturbance of experimental conditions for acquisition of data describing modified fields.

All beam profile measurements, unless otherwise specified, were made across the upper set of collimator jaws in a direction perpendicular to the treatment unit axis of rotation. This geometrical arrangement was necessary to assure that wedge fields were a direct modification of open fields.

Measurement results for the treatment planning test cases were acquired by two independent methods. Data for standard dosimetry comparisons points were acquired by placing the parallel plate ion chamber at field positions designated in the test case worksheets and operating the accelerator for a specified number of monitor units. These measurements are normalized to static ion chamber readings for the 10 x 10 cm open field on the beam central axis at the nominal depth of maximum dose. Complete test case dose distributions were measured in the form of transverse and depth dose profiles using the scanning systems described above.

Relative dose in phantom was measured in water as a function of collimator setting using the parallel plate ion chamber located on the bema central axis at the nominal depth of maximum dose. Relative dose rate in air was measured by placing plastic build-up wafers equivalent to dmax on the parallel plate ion chamber. In all cases the ion chamber was located with the front face of its active volume at the isocenter and ionization charge was accumulated for a set number of monitor units. Response per MU was then normalized to 10 x 10 cm field size. Relative dose/MU in phantom and in air was found to be almost identical for the for the 18 MV beam with the exception of small fields.

Designation of uncertainty in measured data is important for interpretation of comparisons with computed dosimetry. Principal sources of measurement error include noise form the analog divider systems, reproducibility of static measurement sand stability of dose distributions produced by the accelerators during the data acquisition periods. The 4 MV measurements are characterized by highly stable dose distribution shapes over the weeks required to complete by highly stable dose distribution shapes over the weeks required to complete the data collection sequence. However, the analog signal was relatively noisy (+/- 1%) and a linearity correction (+/- 0.5%) was needed to force consistency between analog and monitored measurements with a stationary ion chamber. The beam scanning system for acquisition of 18 MV data was highly linear and less subject to noise the analog and less subject to noise in the analog voltage divider output. However, the dose distribution produced by the higher energy machine was more subject to day-to-day variations. Tuning to provide beam symmetry was checked and adjusted prior to each measurement session. Uncertainty of relative dose within beam profiles is the order of +/0 1 %. The uncertainty within depth dose tables may be estimated as +/- 0.5% because of the reliance on discrete measurements rather than continuous, analogue scans. Similarly, the uncertainty in relative dose among test case dose comparison points within a test field may be estimated as +/- 0.5% because of the use of stationary measurements normalized to the treatment unit dose monitor. Since test case measurements immediately followed beam data measurements with minimum setup modifications, consistency with beam data should be high. Therefore, a final overall uncertainty in the consistency of beam data nd test case results is estimated to be +/- 2%.

Measured data were subjected to the following consistency checks:

1. Radiological field size, defined by the separation of 50% levels on dose profiles obtained at the nominal depth of maximum dose was compared with the geometrically projected nominal field size specified at the treatment unit isocenter. Discrepancies of the order of 1 mm were found. Corrections for open fields were made by expanding or contracting the beam profiles according to the filed size correction scaling factor derived at the depth of maximum dose. The sizes of open fields corresponding to test case conditions were set as carefully as possible by repeated scanning and collimator adjustment to provide close agreement with nominal field size designations.

2. Bema alignment with the phantom surface was adjusted i the experimental procedure by observing the symmetry of beam profiles measured at widely separated depths. Any remaining discrepancy in central axis location for open field beam data was corrected numerically.

3. A linearity correction for 4 MV beam profiles and depth dose curves was applied by deriving correction factors from stationary-chamber, treatment-chamber monitored depth dose measurements.

4. Depth dose curves were smoothed by eye on a plot of depth dose at constant depth as a function of field size. Corrections of the order 0.5% were made for depths beyond the buildup region and more substantial smoothing was applied at shallower depth.

F. Acknowledgements

The test package was created and tested by member of Task Group 23 under the chairmanship of Daniel W. Miller reporting to the Radiation Therapy Committee of the American Association of Physicists in Medicine. Funding for support to physical measurement and data processing were provide by the National Cancer Institute under Grant Number R01-C135391. Contributing volunteer member and associates of Task Group 23 were Komanduri M. Ayyangar, Robert C. Blackwell, Frank J. Bova, Jane Cheng, John R. Cunningham, Bruce H. Curma, Jan Van de Geijn, Geoffrey S. Ibbott, Shirley Z. Jucius, Douglas Jones, Frank E. Dearley, Dennis D. Leavitt, and Ivan Rosenberg.

4 MV BEAM DATA

4 MV BEAM DATA

Absorbed Dose Relative to 10 X 10 cm Field

Field Size	In Phantom	In Air	Field Size	In Air
2 X 2	0.815			
4 X 4	0.936	0.955	5 X 5	0.971
6 X 6	0.965	0.976	5 X 6	0.976
8 X 8	0.981	0.991	5 X 8	0.979
10 X 10	1.000	1.000	5 X 10	0.980
12 X 12	1.010	1.007	5 X 14	0.982
14 X 14	1.021	1.012	5 X 32	0.983
16 X 16	1.030	1.014	6 X 5	0.975
18 X 18	1.037	1.017	8 X 5	0.983
20 X 20	1.044	1.019	10 X 5	0.987
22 X 22	1.048	1.021	12 X 5	0.990
24 X 24	1.053	1.021	14 X 5	0.993
26 X 26	1.053	1.024	18 X 5	0.995
28 X 28	1.055	1.026	22 X 5	0.997
30 X 30	1.055	1.026	32 X 5	1.000
32 X 32	1.055	1.026		

Field Size: upper collimator jaw X lower collimator jaw at 80 cm SAD

Block Characteristics

Half-Beam Block and Irregular Field	
Block Transmission Factor	0.025
Block Thickness (cm)	8.0
Block Attenuation (1/cm)	0.464
Central Block Test Case	
Block Transmission Factor	0.039
Block Thickness (cm)	7.0
Block Attenuation (1/cm)	0.464
Tray Transmission Factor	0.966
Wedge Transmission Factor	0.578

Treatment Unit Dimensions (cm)

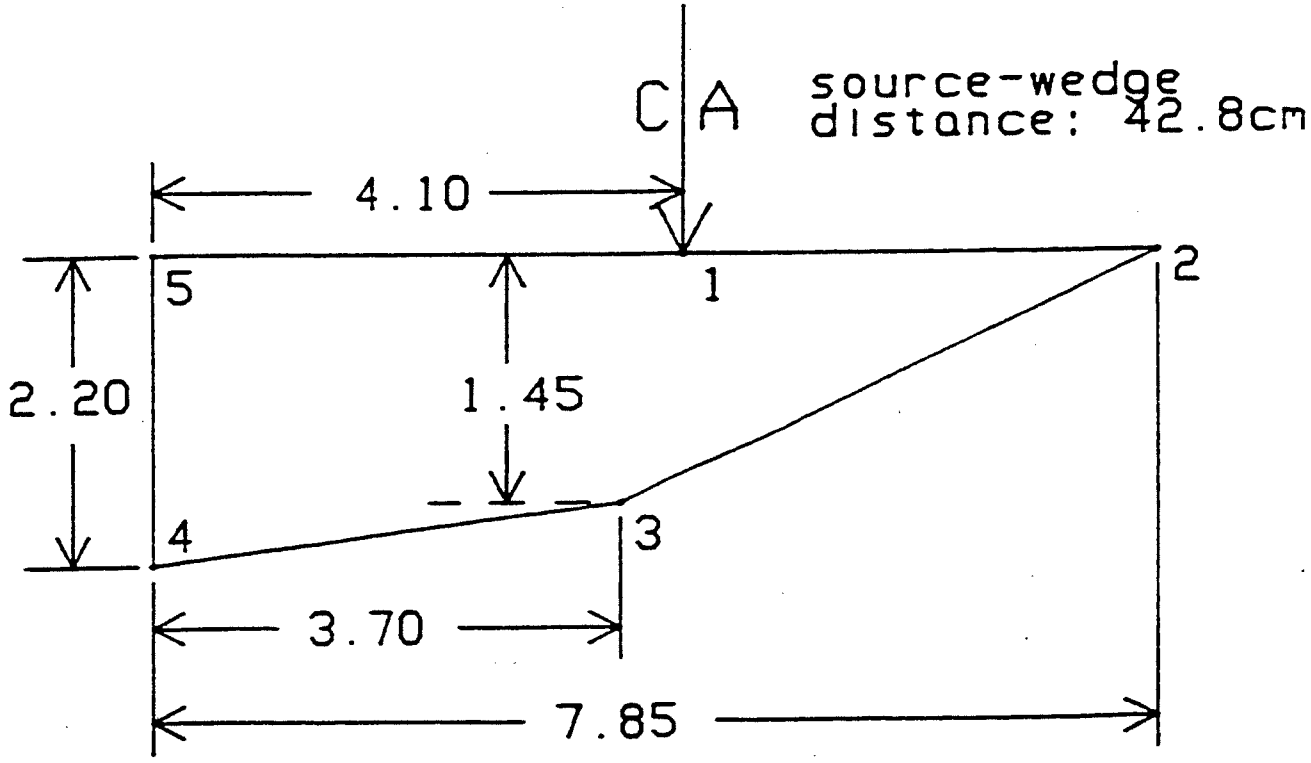
Source Axis Distance	80.0
Source Wedge Distance	42.8
Source Tray Distance	50.0
Source Upper Jaw Distance	29.5

Half Value Layer

Off-Axis	HVL (water)
0.0 cm	12.2 cm
5.0	12.2
10.0	11.6
12.0	11.3
15.0	11.0

Off-axis distance at 80 cm SAD.
Central axis HVL was measured for this treatment unit and agrees with Med. Phys. 7 (1980).
Off-axis HVL's were taken from Med. Phys. 7 (1980).

4MV 45deg WEDGE



- point coordinates (cm)

1 (0.0, 0.0)
2 (3.75, 0.0)
3 (-0.40, -1.45)
4 (-4.10, -2.20)
5 (-4.10, 0.0)

central axis thickness: 1.31cm
transmission factor: 0.578
attenuation coefficient: 0.418/cm
material: brass

4 MV Verification Package Plots

Beam Data

Test Cases

4 MV DEPTH DOSE TABLE 80 cm SSD

DEPTH	4X4	6X6	8X8	10X10	12X12	14X14	16X16	18X18	20X20	22X22	24X24	26X26	28X28	30X30	32X32
0.0	0.565	0.579	0.591	0.619	0.629	0.653	0.682	0.726	0.800	0.870	0.879	0.880	0.877	0.860	0.840
0.2	0.778	0.798	0.818	0.840	0.861	0.880	0.898	0.918	0.938	0.958	0.978	0.988	0.986	0.969	0.947
0.4	0.949	0.952	0.954	0.957	0.960	0.963	0.969	0.976	0.985	0.993	1.000	1.005	1.005	0.998	0.981
0.6	0.989	0.990	0.990	0.990	0.992	0.992	0.993	0.995	0.998	1.002	1.006	1.007	1.008	1.003	0.993
0.8	0.999	1.000	1.001	1.002	1.002	1.002	1.004	1.005	1.006	1.007	1.008	1.010	1.010	1.007	1.001
1.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2.0	0.954	0.959	0.958	0.960	0.962	0.966	0.962	0.960	0.958	0.966	0.963	0.963	0.965	0.964	0.963
3.0	0.897	0.907	0.911	0.915	0.915	0.919	0.917	0.919	0.921	0.922	0.924	0.924	0.926	0.923	0.924
4.0	0.837	0.855	0.860	0.864	0.869	0.874	0.876	0.877	0.879	0.881	0.885	0.884	0.886	0.883	0.885
5.0	0.780	0.802	0.810	0.819	0.823	0.829	0.833	0.835	0.836	0.839	0.840	0.843	0.844	0.843	0.847
6.0	0.726	0.746	0.760	0.770	0.778	0.785	0.789	0.794	0.797	0.799	0.801	0.803	0.804	0.805	0.808
7.0	0.677	0.697	0.713	0.726	0.734	0.743	0.747	0.752	0.758	0.759	0.764	0.766	0.767	0.768	0.770
8.0	0.627	0.651	0.668	0.682	0.692	0.702	0.707	0.714	0.719	0.721	0.725	0.729	0.732	0.731	0.733
9.0	0.582	0.608	0.625	0.640	0.652	0.661	0.669	0.676	0.682	0.686	0.689	0.691	0.696	0.695	0.699
10.0	0.539	0.567	0.584	0.601	0.612	0.624	0.633	0.640	0.645	0.651	0.655	0.658	0.660	0.662	0.664
11.0	0.502	0.530	0.549	0.565	0.578	0.590	0.597	0.606	0.611	0.618	0.620	0.626	0.627	0.629	0.632
12.0	0.467	0.494	0.511	0.530	0.545	0.555	0.564	0.573	0.580	0.584	0.592	0.593	0.595	0.596	0.600
13.0	0.433	0.461	0.479	0.500	0.511	0.523	0.533	0.540	0.548	0.551	0.558	0.562	0.564	0.563	0.570
14.0	0.403	0.429	0.449	0.465	0.480	0.492	0.501	0.509	0.517	0.522	0.528	0.532	0.535	0.536	0.540
15.0	0.375	0.400	0.421	0.436	0.449	0.463	0.473	0.481	0.487	0.494	0.500	0.502	0.508	0.508	0.511
16.0	0.350	0.373	0.393	0.409	0.420	0.436	0.445	0.453	0.461	0.466	0.472	0.474	0.480	0.481	0.483
17.0	0.327	0.349	0.366	0.383	0.394	0.408	0.416	0.426	0.435	0.440	0.445	0.448	0.453	0.454	0.456
18.0	0.303	0.325	0.342	0.357	0.370	0.380	0.393	0.402	0.411	0.415	0.420	0.425	0.430	0.429	0.430
19.0	0.282	0.301	0.319	0.334	0.348	0.359	0.370	0.378	0.387	0.393	0.397	0.402	0.405	0.407	0.407
20.0	0.264	0.282	0.299	0.315	0.328	0.338	0.348	0.356	0.364	0.371	0.376	0.379	0.382	0.384	0.385
21.0	0.247	0.263	0.279	0.296	0.307	0.318	0.328	0.336	0.344	0.351	0.356	0.358	0.360	0.362	0.364
22.0	0.230	0.246	0.261	0.276	0.288	0.299	0.309	0.318	0.324	0.332	0.336	0.338	0.340	0.341	0.342
23.0	0.214	0.230	0.243	0.255	0.270	0.282	0.291	0.299	0.306	0.312	0.317	0.318	0.321	0.322	0.322
24.0	0.198	0.215	0.229	0.240	0.253	0.264	0.273	0.281	0.288	0.292	0.297	0.300	0.304	0.303	0.305
25.0	0.185	0.201	0.215	0.226	0.238	0.248	0.257	0.264	0.270	0.275	0.279	0.283	0.285	0.286	0.289
26.0	0.174	0.187	0.201	0.212	0.223	0.233	0.240	0.248	0.253	0.257	0.263	0.267	0.266	0.271	0.273
27.0	0.161	0.174	0.188	0.198	0.210	0.219	0.226	0.233	0.240	0.244	0.249	0.252	0.252	0.255	0.256
28.0	0.150	0.163	0.176	0.186	0.197	0.206	0.213	0.220	0.226	0.230	0.234	0.236	0.237	0.238	0.241
29.0	0.140	0.154	0.165	0.174	0.185	0.195	0.201	0.208	0.212	0.217	0.220	0.222	0.220	0.224	0.225
30.0	0.132	0.144	0.154	0.164	0.173	0.182	0.190	0.196	0.199	0.204	0.205	0.209	0.210	0.212	0.213
31.0	0.121	0.134	0.144	0.154	0.162	0.170	0.177	0.183	0.188	0.192	0.195	0.197	0.199	0.201	0.202
32.0	0.112	0.125	0.136	0.144	0.152	0.159	0.164	0.171	0.177	0.181	0.185	0.185	0.186	0.190	0.191
33.0	0.106	0.116	0.128	0.134	0.144	0.149	0.156	0.160	0.167	0.171	0.175	0.174	0.175	0.179	0.180
34.0	0.099	0.108	0.119	0.127	0.135	0.141	0.147	0.152	0.157	0.161	0.165	0.166	0.167	0.168	0.169

4 MV 8 x 8 cm Wedge Field Central Axis Depth Dose

Source-surface distance (SSD) 80.0 cm
Field size definaition distance (SAD) 80.0 cm

Depth	DD	Depth	DD	Depth	DD
0.0	0.617	0.2	0.815	0.4	0.922
0.6	0.975	0.8	0.994	1.0	1.000
1.2	0.994	1.4	0.983	1.6	0.972
1.8	0.961	2.0	0.951	2.5	0.927
3.0	0.903	3.5	0.879	4.0	0.855
4.5	0.831	5.0	0.807	5.5	0.784
6.0	0.761	6.5	0.739	7.0	0.717
7.5	0.694	8.0	0.673	8.5	0.652
9.0	0.632	10.0	0.595	10.5	0.577
11.0	0.559	11.5	0.542	12.0	0.525
12.5	0.508	13.0	0.492	13.5	0.476
14.0	0.461	14.5	0.445	15.0	0.430
16.0	0.399	17.0	0.374	18.0	0.351

4 MV 10 x 10 cm Wedge Field Central Axis Depth Dose

Source-surface distance (SSD) 80.0 cm
Field size definaition distance (SAD) 80.0 cm

Depth	DD	Depth	DD	Depth	DD
0.0	0.667	0.2	0.896	0.4	0.975
0.6	0.991	0.8	0.999	1.0	1.000
2.0	0.965	3.0	0.916	4.0	0.866
5.0	0.818	6.0	0.772	7.0	0.729
8.0	0.689	9.0	0.650	10.0	0.610
11.0	0.576	12.0	0.544	13.0	0.509
14.0	0.477	15.0	0.447	16.0	0.417
17.0	0.391	18.0	0.369	19.0	0.347
20.0	0.325	21.0	0.306	22.0	0.228
23.0	0.270	24.0	0.253	25.0	0.238
26.0	0.223	27.0	0.210	28.0	0.197
29.0	0.185	30.0	0.175	31.0	0.164
32.0	0.154	33.0	0.144	34.0	0.135

4 MV TISSUE PHANTOM RATIO TABLE

DEPTH	4X4	6X6	8X8	10X10	12X12	14X14	16X16	18X18	20X20	22X22	24X24	26X26	28X28	30X30	32X32
0.0	0.551	0.565	0.577	0.604	0.614	0.638	0.666	0.709	0.780	0.849	0.858	0.858	0.855	0.839	0.819
0.2	0.763	0.782	0.802	0.824	0.844	0.863	0.880	0.900	0.920	0.939	0.958	0.968	0.967	0.951	0.929
0.4	0.935	0.938	0.940	0.943	0.946	0.949	0.955	0.962	0.971	0.978	0.985	0.990	0.990	0.984	0.967
0.6	0.979	0.980	0.980	0.980	0.982	0.982	0.983	0.985	0.988	0.992	0.996	0.997	0.998	0.994	0.984
0.8	0.994	0.995	0.996	0.997	0.997	0.997	0.999	1.000	1.001	1.002	1.003	1.005	1.005	1.003	0.997
1.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2.0	0.978	0.982	0.982	0.983	0.985	0.988	0.986	0.984	0.982	0.987	0.987	0.987	0.988	0.988	0.987
3.0	0.941	0.950	0.956	0.959	0.960	0.963	0.962	0.964	0.965	0.967	0.969	0.970	0.971	0.971	0.970
4.0	0.898	0.916	0.924	0.927	0.932	0.937	0.939	0.941	0.943	0.946	0.949	0.951	0.952	0.952	0.950
5.0	0.855	0.878	0.890	0.897	0.904	0.909	0.913	0.917	0.918	0.921	0.923	0.926	0.929	0.930	0.928
6.0	0.815	0.835	0.852	0.862	0.872	0.879	0.884	0.890	0.894	0.899	0.900	0.903	0.905	0.907	0.907
7.0	0.777	0.797	0.816	0.829	0.841	0.849	0.855	0.861	0.866	0.874	0.875	0.881	0.883	0.885	0.886
8.0	0.734	0.759	0.780	0.795	0.810	0.819	0.827	0.834	0.840	0.848	0.849	0.854	0.859	0.863	0.864
9.0	0.696	0.723	0.745	0.761	0.777	0.787	0.796	0.806	0.812	0.821	0.826	0.830	0.834	0.837	0.840
10.0	0.657	0.687	0.711	0.728	0.745	0.756	0.767	0.778	0.785	0.793	0.800	0.806	0.810	0.813	0.815
11.0	0.624	0.654	0.679	0.698	0.716	0.728	0.740	0.750	0.758	0.767	0.774	0.780	0.785	0.790	0.792
12.0	0.592	0.622	0.647	0.666	0.687	0.701	0.711	0.723	0.731	0.741	0.748	0.755	0.764	0.765	0.768
13.0	0.559	0.590	0.617	0.637	0.660	0.670	0.682	0.696	0.704	0.714	0.722	0.727	0.736	0.740	0.743
14.0	0.532	0.561	0.587	0.607	0.627	0.642	0.654	0.667	0.675	0.686	0.697	0.703	0.711	0.715	0.719
15.0	0.505	0.532	0.559	0.581	0.600	0.612	0.627	0.641	0.651	0.661	0.669	0.678	0.685	0.690	0.695
16.0	0.480	0.506	0.531	0.553	0.573	0.583	0.600	0.615	0.624	0.634	0.645	0.652	0.660	0.665	0.669
17.0	0.457	0.482	0.506	0.525	0.546	0.557	0.572	0.586	0.595	0.608	0.621	0.628	0.635	0.640	0.644
18.0	0.430	0.456	0.480	0.499	0.518	0.532	0.545	0.559	0.573	0.584	0.596	0.603	0.610	0.617	0.622
19.0	0.410	0.432	0.453	0.475	0.494	0.509	0.522	0.536	0.548	0.559	0.571	0.581	0.588	0.594	0.599
20.0	0.390	0.411	0.432	0.453	0.473	0.488	0.501	0.514	0.525	0.536	0.547	0.558	0.566	0.573	0.576
21.0	0.372	0.391	0.411	0.432	0.452	0.466	0.478	0.492	0.503	0.514	0.526	0.537	0.546	0.552	0.556
22.0	0.353	0.372	0.391	0.410	0.429	0.444	0.457	0.471	0.482	0.494	0.505	0.515	0.525	0.531	0.535
23.0	0.334	0.353	0.372	0.389	0.404	0.419	0.436	0.451	0.462	0.473	0.484	0.495	0.502	0.510	0.514
24.0	0.314	0.334	0.353	0.372	0.387	0.401	0.416	0.430	0.441	0.452	0.462	0.474	0.480	0.486	0.492
25.0	0.297	0.317	0.336	0.355	0.370	0.383	0.396	0.410	0.420	0.432	0.441	0.451	0.458	0.465	0.471
26.0	0.285	0.302	0.319	0.338	0.352	0.365	0.378	0.392	0.401	0.411	0.421	0.430	0.437	0.443	0.451
27.0	0.270	0.285	0.300	0.320	0.334	0.347	0.361	0.374	0.383	0.393	0.403	0.413	0.421	0.427	0.434
28.0	0.254	0.270	0.286	0.305	0.319	0.331	0.344	0.357	0.366	0.377	0.386	0.396	0.404	0.409	0.415
29.0	0.239	0.257	0.275	0.290	0.304	0.316	0.328	0.342	0.352	0.361	0.371	0.379	0.385	0.392	0.397
30.0	0.232	0.247	0.261	0.275	0.289	0.302	0.313	0.324	0.334	0.346	0.355	0.362	0.368	0.374	0.377
31.0	0.214	0.230	0.247	0.261	0.275	0.288	0.297	0.308	0.318	0.328	0.336	0.345	0.353	0.358	0.363
32.0	0.200	0.217	0.233	0.249	0.263	0.273	0.283	0.293	0.302	0.309	0.318	0.328	0.338	0.343	0.349
33.0	0.195	0.208	0.221	0.237	0.250	0.258	0.270	0.280	0.286	0.296	0.304	0.312	0.323	0.329	0.335
34.0	0.185	0.197	0.209	0.224	0.238	0.248	0.258	0.268	0.275	0.284	0.292	0.300	0.308	0.315	0.321

4 MV TISSUE AIR RATIO TABLE

DEPTH	0	4X4	6X6	8X8	10X10	12X12	14X14	16X16	18X18	20X20	22X22	24X24	26X26	28X28	30X30	32X32
0.0		0.560	0.580	0.592	0.626	0.638	0.667	0.701	0.750	0.829	0.903	0.914	0.915	0.912	0.894	0.873
0.2		0.775	0.803	0.823	0.854	0.878	0.902	0.928	0.952	0.977	0.999	1.021	1.032	1.030	1.014	0.990
0.4		0.949	0.962	0.965	0.978	0.984	0.992	1.006	1.017	1.031	1.040	1.050	1.055	1.056	1.049	1.031
0.6		0.994	1.006	1.007	1.016	1.021	1.027	1.036	1.042	1.050	1.055	1.061	1.063	1.064	1.060	1.049
0.8		1.009	1.021	1.023	1.034	1.037	1.043	1.053	1.058	1.064	1.066	1.069	1.071	1.071	1.069	1.062
1.0	1.000	1.016	1.026	1.027	1.037	1.040	1.046	1.054	1.058	1.062	1.064	1.066	1.066	1.066	1.066	1.066
2.0	0.945	0.993	1.007	1.009	1.019	1.024	1.033	1.038	1.041	1.043	1.051	1.052	1.052	1.053	1.053	1.053
3.0	0.893	0.956	0.975	0.981	0.994	0.999	1.007	1.014	1.019	1.025	1.029	1.032	1.034	1.035	1.035	1.034
4.0	0.844	0.912	0.940	0.949	0.961	0.970	0.980	0.989	0.996	1.001	1.007	1.011	1.014	1.014	1.014	1.013
5.0	0.797	0.869	0.901	0.914	0.930	0.940	0.950	0.962	0.970	0.975	0.980	0.984	0.987	0.990	0.991	0.990
6.0	0.753	0.828	0.857	0.875	0.894	0.907	0.919	0.931	0.941	0.949	0.956	0.959	0.963	0.965	0.967	0.967
7.0	0.712	0.789	0.818	0.838	0.859	0.875	0.888	0.901	0.911	0.920	0.930	0.932	0.939	0.942	0.943	0.944
8.0	0.672	0.746	0.779	0.801	0.824	0.842	0.856	0.871	0.883	0.892	0.903	0.905	0.911	0.915	0.920	0.921
9.0	0.635	0.706	0.742	0.765	0.789	0.808	0.823	0.838	0.853	0.862	0.873	0.880	0.885	0.889	0.893	0.895
10.0	0.600	0.668	0.705	0.730	0.754	0.775	0.790	0.808	0.824	0.834	0.844	0.853	0.859	0.864	0.867	0.869
11.0	0.567	0.634	0.671	0.698	0.723	0.744	0.761	0.780	0.793	0.805	0.816	0.825	0.832	0.837	0.842	0.844
12.0	0.536	0.601	0.638	0.664	0.690	0.714	0.733	0.749	0.765	0.776	0.789	0.798	0.805	0.814	0.815	0.818
13.0	0.506	0.568	0.606	0.633	0.661	0.686	0.701	0.719	0.736	0.747	0.760	0.770	0.775	0.785	0.789	0.792
14.0	0.478	0.540	0.575	0.603	0.630	0.652	0.671	0.689	0.705	0.717	0.730	0.742	0.749	0.758	0.762	0.766
15.0	0.452	0.513	0.546	0.574	0.602	0.623	0.640	0.661	0.678	0.691	0.703	0.713	0.723	0.731	0.735	0.741
16.0	0.427	0.488	0.519	0.545	0.573	0.595	0.610	0.632	0.650	0.663	0.674	0.688	0.695	0.703	0.708	0.713
17.0	0.404	0.464	0.495	0.520	0.544	0.567	0.583	0.603	0.620	0.632	0.647	0.662	0.669	0.677	0.682	0.686
18.0	0.381	0.437	0.468	0.493	0.518	0.539	0.557	0.574	0.592	0.608	0.621	0.635	0.643	0.650	0.657	0.663
19.0	0.360	0.416	0.443	0.466	0.492	0.513	0.532	0.551	0.568	0.583	0.595	0.609	0.619	0.626	0.633	0.639
20.0	0.341	0.396	0.422	0.444	0.469	0.492	0.511	0.528	0.543	0.558	0.570	0.583	0.595	0.603	0.611	0.615
21.0	0.322	0.377	0.401	0.422	0.447	0.470	0.488	0.504	0.520	0.535	0.547	0.560	0.572	0.582	0.588	0.592
22.0	0.304	0.359	0.382	0.402	0.425	0.446	0.464	0.481	0.498	0.512	0.526	0.538	0.549	0.559	0.566	0.570
23.0	0.287	0.339	0.362	0.382	0.404	0.420	0.439	0.459	0.477	0.490	0.503	0.516	0.527	0.535	0.543	0.548
24.0	0.271	0.319	0.342	0.363	0.386	0.402	0.419	0.438	0.455	0.468	0.481	0.493	0.505	0.511	0.518	0.524
25.0	0.256	0.302	0.325	0.345	0.368	0.385	0.401	0.418	0.434	0.447	0.459	0.470	0.481	0.488	0.495	0.502
26.0	0.242	0.289	0.310	0.328	0.350	0.366	0.382	0.398	0.414	0.426	0.438	0.449	0.459	0.465	0.473	0.481
27.0	0.229	0.274	0.293	0.309	0.331	0.348	0.363	0.380	0.395	0.407	0.419	0.430	0.441	0.448	0.455	0.462
28.0	0.216	0.258	0.277	0.294	0.316	0.331	0.346	0.363	0.377	0.389	0.401	0.412	0.422	0.430	0.436	0.443
29.0	0.204	0.243	0.264	0.282	0.301	0.316	0.330	0.346	0.362	0.374	0.384	0.395	0.404	0.411	0.418	0.423
30.0	0.193	0.236	0.253	0.268	0.285	0.300	0.315	0.329	0.343	0.355	0.368	0.378	0.386	0.392	0.399	0.401
31.0	0.183	0.217	0.236	0.253	0.271	0.286	0.301	0.313	0.326	0.337	0.349	0.358	0.367	0.376	0.382	0.387
32.0	0.172	0.203	0.223	0.239	0.258	0.273	0.285	0.298	0.310	0.320	0.329	0.339	0.349	0.361	0.366	0.372
33.0	0.163	0.198	0.213	0.227	0.246	0.260	0.269	0.284	0.296	0.304	0.315	0.324	0.332	0.344	0.351	0.357
34.0	0.154	0.188	0.202	0.214	0.232	0.247	0.259	0.272	0.283	0.292	0.302	0.311	0.319	0.329	0.336	0.342

4 MV SCATTER AIR RATIO TABLE FOR CIRCULAR FIELDS

RADIUS(cm)

DEPTH	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	
1.0	0.013	0.023	0.026	0.031	0.038	0.041	0.046	0.054	0.057	0.061	0.064	0.065	0.066	0.066	0.066	
2.0	0.045	0.058	0.064	0.068	0.076	0.081	0.090	0.094	0.096	0.098	0.103	0.108	0.107	0.107	0.109	
3.0	0.059	0.076	0.086	0.094	0.104	0.107	0.116	0.121	0.126	0.131	0.136	0.138	0.142	0.142	0.143	
4.0	0.062	0.087	0.102	0.110	0.121	0.128	0.138	0.146	0.152	0.156	0.162	0.165	0.170	0.171	0.171	
5.0	0.065	0.094	0.112	0.123	0.139	0.145	0.155	0.165	0.172	0.177	0.182	0.186	0.188	0.191	0.194	
6.0	0.069	0.094	0.114	0.131	0.147	0.157	0.168	0.178	0.187	0.195	0.202	0.205	0.208	0.211	0.213	
7.0	0.071	0.097	0.118	0.136	0.155	0.166	0.178	0.190	0.198	0.206	0.216	0.220	0.224	0.229	0.231	
8.0	0.067	0.096	0.120	0.140	0.159	0.173	0.186	0.199	0.208	0.218	0.227	0.232	0.235	0.240	0.244	
9.0	0.064	0.095	0.121	0.141	0.161	0.176	0.190	0.204	0.215	0.225	0.235	0.242	0.247	0.252	0.254	
10.0	0.060	0.093	0.120	0.141	0.162	0.178	0.193	0.209	0.221	0.231	0.241	0.249	0.256	0.261	0.265	
11.0	0.060	0.092	0.120	0.144	0.164	0.181	0.197	0.213	0.224	0.235	0.246	0.254	0.262	0.267	0.272	
12.0	0.058	0.091	0.119	0.141	0.163	0.183	0.200	0.214	0.226	0.238	0.249	0.260	0.265	0.273	0.279	
13.0	0.054	0.087	0.116	0.140	0.164	0.183	0.197	0.213	0.227	0.239	0.249	0.261	0.266	0.272	0.280	
14.0	0.055	0.086	0.112	0.139	0.159	0.178	0.196	0.212	0.224	0.237	0.247	0.260	0.267	0.274	0.281	
15.0	0.054	0.084	0.109	0.137	0.158	0.175	0.191	0.209	0.224	0.237	0.247	0.257	0.265	0.274	0.281	
16.0	0.054	0.082	0.107	0.133	0.154	0.172	0.185	0.205	0.221	0.233	0.243	0.255	0.264	0.271	0.278	
17.0	0.054	0.081	0.105	0.129	0.149	0.168	0.182	0.200	0.214	0.225	0.238	0.252	0.263	0.268	0.275	
18.0	0.050	0.077	0.101	0.125	0.144	0.162	0.178	0.193	0.207	0.224	0.236	0.248	0.259	0.264	0.271	
19.0	0.051	0.074	0.095	0.119	0.139	0.158	0.175	0.191	0.204	0.219	0.231	0.242	0.255	0.262	0.268	
20.0	0.050	0.073	0.093	0.116	0.137	0.156	0.173	0.188	0.200	0.214	0.226	0.237	0.249	0.257	0.265	
21.0	0.051	0.072	0.091	0.113	0.133	0.153	0.169	0.183	0.196	0.210	0.222	0.233	0.244	0.254	0.262	
22.0	0.050	0.071	0.089	0.110	0.128	0.147	0.163	0.178	0.191	0.205	0.218	0.230	0.240	0.249	0.258	
23.0	0.048	0.068	0.085	0.106	0.122	0.136	0.155	0.173	0.187	0.200	0.212	0.223	0.234	0.243	0.250	
24.0	0.043	0.064	0.082	0.103	0.120	0.135	0.151	0.167	0.181	0.194	0.206	0.216	0.227	0.236	0.242	
25.0	0.041	0.062	0.080	0.101	0.118	0.132	0.147	0.162	0.175	0.187	0.199	0.209	0.219	0.228	0.234	
26.0	0.043	0.061	0.077	0.097	0.114	0.128	0.142	0.156	0.169	0.181	0.192	0.202	0.211	0.220	0.225	
27.0	0.042	0.058	0.072	0.091	0.109	0.122	0.137	0.152	0.164	0.176	0.186	0.196	0.206	0.216	0.221	
28.0	0.039	0.055	0.070	0.088	0.106	0.119	0.132	0.147	0.159	0.171	0.181	0.191	0.200	0.209	0.216	
29.0	0.035	0.053	0.069	0.088	0.102	0.115	0.128	0.142	0.155	0.168	0.177	0.186	0.196	0.202	0.208	
30.0	0.040	0.055	0.068	0.084	0.098	0.111	0.124	0.137	0.147	0.159	0.171	0.181	0.189	0.195	0.201	
31.0	0.031	0.048	0.063	0.080	0.094	0.107	0.120	0.131	0.141	0.153	0.163	0.172	0.180	0.188	0.195	
32.0	0.028	0.044	0.059	0.077	0.092	0.103	0.115	0.126	0.136	0.146	0.154	0.162	0.171	0.181	0.190	
33.0	0.033	0.046	0.058	0.073	0.090	0.100	0.108	0.122	0.132	0.139	0.149	0.158	0.165	0.173	0.184	
34.0	0.032	0.044	0.055	0.068	0.084	0.096	0.107	0.118	0.128	0.136	0.145	0.154	0.161	0.169	0.177	

NOTE: TAR(0) = exp(-0.693 * (d - dmax) / HVL)

Circular fields generated by equal area approximation

4 MV 4 X 4 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.000	1.002	1.000	1.000	1.000	1.000	1.000	0.999
0.100	1.003	1.004	1.000	1.000	0.999	1.000	0.999	0.998
0.150	1.005	1.005	0.999	1.000	0.998	1.000	0.999	0.997
0.200	1.006	1.005	0.999	0.999	0.997	1.000	0.998	0.996
0.250	1.007	1.004	0.999	0.998	0.996	1.000	0.997	0.992
0.300	1.007	1.003	0.997	0.997	0.994	0.997	0.996	0.987
0.350	1.005	1.002	0.996	0.995	0.992	0.995	0.993	0.983
0.400	1.003	0.999	0.992	0.992	0.989	0.992	0.989	0.978
0.450	1.001	0.995	0.987	0.988	0.986	0.988	0.981	0.972
0.500	0.998	0.985	0.981	0.983	0.981	0.978	0.973	0.965
0.550	0.991	0.970	0.975	0.973	0.973	0.967	0.963	0.958
0.600	0.978	0.956	0.964	0.960	0.962	0.957	0.953	0.949
0.650	0.964	0.935	0.952	0.942	0.947	0.941	0.942	0.939
0.700	0.949	0.901	0.920	0.915	0.932	0.920	0.919	0.926
0.750	0.920	0.855	0.885	0.877	0.880	0.889	0.885	0.896
0.800	0.877	0.816	0.845	0.837	0.832	0.845	0.838	0.857
0.820	0.854	0.800	0.829	0.821	0.813	0.826	0.813	0.841
0.840	0.831	0.784	0.813	0.804	0.791	0.794	0.788	0.825
0.860	0.808	0.760	0.797	0.781	0.766	0.762	0.759	0.809
0.880	0.785	0.726	0.769	0.758	0.741	0.730	0.726	0.774
0.900	0.752	0.691	0.728	0.734	0.716	0.694	0.692	0.734
0.920	0.708	0.656	0.687	0.684	0.689	0.637	0.659	0.694
0.940	0.665	0.621	0.645	0.624	0.638	0.607	0.630	0.654
0.950	0.643	0.604	0.625	0.600	0.613	0.592	0.616	0.635
0.960	0.621	0.586	0.606	0.580	0.587	0.577	0.602	0.608
0.970	0.594	0.568	0.586	0.559	0.570	0.562	0.589	0.578
0.980	0.563	0.543	0.566	0.539	0.553	0.547	0.576	0.549
0.990	0.531	0.518	0.546	0.519	0.537	0.531	0.563	0.523
1.000	0.500	0.493	0.526	0.498	0.520	0.513	0.550	0.508
1.010	0.468	0.469	0.506	0.489	0.503	0.490	0.537	0.493
1.020	0.446	0.446	0.486	0.481	0.487	0.467	0.524	0.478
1.030	0.432	0.427	0.466	0.472	0.470	0.443	0.503	0.464
1.040	0.418	0.408	0.446	0.457	0.451	0.420	0.476	0.449
1.050	0.404	0.389	0.414	0.437	0.429	0.404	0.449	0.434
1.060	0.389	0.370	0.378	0.417	0.407	0.388	0.421	0.419
1.070	0.375	0.351	0.354	0.397	0.390	0.373	0.403	0.404
1.080	0.361	0.335	0.341	0.378	0.375	0.358	0.387	0.389
1.100	0.333	0.316	0.315	0.345	0.346	0.327	0.357	0.359
1.150	0.275	0.243	0.250	0.273	0.267	0.274	0.291	0.274
1.200	0.218	0.190	0.199	0.224	0.226	0.225	0.234	0.241
1.300	0.130	0.126	0.135	0.153	0.160	0.160	0.165	0.183

4 MV 4 X 4 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.068	0.079	0.096	0.106	0.116	0.112	0.130	0.142
1.500	0.040	0.051	0.068	0.075	0.094	0.090	0.106	0.115
1.600	0.029	0.041	0.056	0.066	0.080	0.080	0.092	0.097
1.700	0.022	0.033	0.048	0.058	0.069	0.071	0.081	0.085
1.800	0.017	0.028	0.042	0.053	0.062	0.066	0.072	0.076
1.900	0.016	0.024	0.037	0.048	0.058	0.060	0.064	0.070
2.000	0.015	0.022	0.032	0.044	0.053	0.056	0.058	0.064
2.100	0.014	0.020	0.030	0.040	0.048	0.051	0.053	0.059
2.200	0.013	0.018	0.028	0.037	0.044	0.047	0.050	0.055
2.300	0.012	0.016	0.026	0.034	0.040	0.045	0.048	0.052
2.400	0.010	0.014	0.025	0.031	0.038	0.042	0.046	0.050
2.500	0.010	0.013	0.023	0.027	0.036	0.040	0.044	0.047
2.600	0.009	0.013	0.022	0.025	0.034	0.037	0.042	0.045
2.700	0.009	0.012	0.020	0.024	0.032	0.035	0.040	0.043
2.800	0.009	0.011	0.019	0.023	0.030	0.032	0.038	0.041
2.900	0.009	0.010	0.018	0.021	0.028	0.031	0.037	0.039
3.000	0.009	0.009	0.017	0.020	0.027	0.029	0.035	0.037
3.100	0.008	0.008	0.017	0.019	0.025	0.028	0.033	0.035

x = Off-axis distance
h = Field half-width
x = 2.0 * x/h (80.0 + depth) / 80.0

4 MV 6 X 6 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.003	1.001	1.002	1.002	1.001	1.000	1.000	1.001
0.100	1.006	1.003	1.006	1.002	1.002	1.000	0.999	1.002
0.150	1.010	1.007	1.009	1.004	1.002	1.000	0.999	1.002
0.200	1.011	1.010	1.011	1.006	1.003	1.000	0.999	1.002
0.250	1.013	1.014	1.013	1.008	1.003	1.001	1.000	1.002
0.300	1.017	1.016	1.013	1.007	1.003	1.001	0.999	1.001
0.350	1.019	1.019	1.013	1.007	1.003	0.999	0.997	0.999
0.400	1.020	1.020	1.012	1.006	1.003	0.997	0.997	0.997
0.450	1.020	1.020	1.011	1.004	1.001	0.996	0.997	0.993
0.500	1.020	1.020	1.010	1.001	0.997	0.994	0.994	0.988
0.550	1.019	1.018	1.007	0.996	0.991	0.989	0.990	0.985
0.600	1.016	1.012	1.003	0.986	0.982	0.981	0.983	0.977
0.650	1.009	1.007	0.994	0.975	0.972	0.969	0.973	0.967
0.700	0.995	0.994	0.981	0.960	0.958	0.955	0.960	0.956
0.750	0.971	0.976	0.949	0.928	0.940	0.929	0.944	0.941
0.800	0.920	0.916	0.900	0.889	0.903	0.893	0.922	0.914
0.820	0.898	0.881	0.883	0.866	0.884	0.876	0.910	0.896
0.840	0.875	0.854	0.867	0.838	0.856	0.858	0.894	0.877
0.860	0.851	0.833	0.846	0.807	0.831	0.837	0.863	0.848
0.880	0.825	0.810	0.818	0.781	0.806	0.811	0.831	0.811
0.900	0.787	0.786	0.773	0.752	0.761	0.775	0.800	0.754
0.920	0.736	0.716	0.717	0.717	0.707	0.732	0.755	0.714
0.940	0.688	0.679	0.677	0.670	0.657	0.685	0.704	0.675
0.950	0.649	0.650	0.660	0.609	0.625	0.663	0.678	0.655
0.960	0.612	0.593	0.643	0.587	0.604	0.641	0.652	0.635
0.970	0.575	0.550	0.619	0.564	0.585	0.616	0.627	0.614
0.980	0.548	0.525	0.589	0.540	0.566	0.562	0.601	0.591
0.990	0.524	0.506	0.557	0.512	0.533	0.535	0.574	0.568
1.000	0.500	0.486	0.514	0.483	0.481	0.513	0.548	0.544
1.010	0.480	0.469	0.487	0.456	0.459	0.491	0.522	0.520
1.020	0.459	0.453	0.469	0.429	0.437	0.467	0.495	0.495
1.030	0.439	0.436	0.452	0.401	0.415	0.442	0.469	0.470
1.040	0.411	0.418	0.435	0.372	0.393	0.417	0.445	0.443
1.050	0.382	0.398	0.416	0.352	0.372	0.393	0.421	0.416
1.060	0.353	0.377	0.388	0.334	0.350	0.370	0.396	0.389
1.070	0.328	0.352	0.360	0.315	0.329	0.347	0.372	0.371
1.080	0.306	0.306	0.332	0.297	0.315	0.328	0.348	0.352
1.100	0.260	0.246	0.281	0.260	0.290	0.297	0.299	0.314
1.150	0.170	0.183	0.214	0.199	0.229	0.230	0.239	0.247
1.200	0.115	0.128	0.168	0.153	0.180	0.190	0.193	0.207
1.300	0.055	0.079	0.103	0.109	0.125	0.131	0.142	0.162

4 MV 6 X 6 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.034	0.055	0.075	0.087	0.099	0.112	0.120	0.136
1.500	0.026	0.044	0.062	0.076	0.085	0.099	0.106	0.121
1.600	0.021	0.038	0.053	0.066	0.077	0.088	0.096	0.110
1.700	0.018	0.032	0.046	0.060	0.069	0.078	0.089	0.100
1.800	0.016	0.028	0.040	0.054	0.062	0.070	0.082	0.091
1.900	0.014	0.025	0.037	0.048	0.055	0.062	0.075	0.082
2.000	0.012	0.022	0.033	0.043	0.049	0.057	0.068	0.074
2.100	0.010	0.020	0.029	0.038	0.043	0.052	0.063	0.070
2.200	0.009	0.019	0.027	0.034	0.040	0.047	0.059	0.066
2.300	0.009	0.017	0.024	0.031	0.037	0.043	0.055	0.061
2.400	0.009	0.016	0.022	0.028	0.035	0.039	0.051	0.056
2.500	0.008	0.015	0.020	0.026	0.032	0.036	0.047	0.051
2.600	0.007	0.014	0.019	0.024	0.029	0.033	0.044	0.046
2.700	0.006	0.013	0.017	0.023	0.027	0.031	0.041	0.043
2.800	0.006	0.012	0.016	0.021	0.024	0.029	0.039	0.040
2.900	0.005	0.011	0.015	0.020	0.022	0.026	0.036	0.037
3.000	0.005	0.010	0.014	0.019	0.020	0.025		0.034
3.100	0.004	0.010	0.013	0.018		0.024		0.031

x = Off-axis distance
h = Field half-width
x = 3.0 * x/h (80.0 + depth) / 80.0

4 MV 8 X 8 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.004	1.003	1.003	1.003	1.005	0.999	1.000	0.999
0.100	1.011	1.005	1.005	1.004	1.008	1.000	1.002	0.997
0.150	1.015	1.009	1.007	1.008	1.010	1.002	1.002	0.996
0.200	1.019	1.014	1.009	1.009	1.012	1.004	1.002	0.996
0.250	1.024	1.017	1.011	1.011	1.013	1.006	1.001	0.996
0.300	1.029	1.020	1.013	1.014	1.014	1.007	1.001	0.997
0.350	1.032	1.022	1.016	1.017	1.014	1.006	1.001	0.996
0.400	1.034	1.025	1.017	1.017	1.013	1.006	1.001	0.996
0.450	1.038	1.028	1.018	1.017	1.011	1.007	0.999	0.995
0.500	1.041	1.030	1.018	1.018	1.010	1.007	0.996	0.992
0.550	1.044	1.029	1.017	1.016	1.009	1.006	0.992	0.987
0.600	1.044	1.028	1.016	1.011	1.007	1.001	0.987	0.981
0.650	1.044	1.028	1.014	1.005	1.002	0.995	0.982	0.973
0.700	1.041	1.022	1.007	0.995	0.994	0.987	0.975	0.963
0.750	1.032	1.010	0.994	0.982	0.979	0.972	0.965	0.948
0.800	1.004	0.992	0.967	0.955	0.959	0.954	0.946	0.930
0.820	0.991	0.977	0.950	0.942	0.950	0.940	0.936	0.920
0.840	0.964	0.962	0.931	0.913	0.939	0.926	0.918	0.909
0.860	0.938	0.937	0.912	0.884	0.920	0.912	0.898	0.890
0.880	0.907	0.906	0.893	0.855	0.901	0.894	0.872	0.865
0.900	0.859	0.868	0.864	0.822	0.882	0.864	0.852	0.836
0.920	0.804	0.826	0.825	0.788	0.838	0.833	0.834	0.792
0.940	0.736	0.782	0.787	0.754	0.790	0.789	0.784	0.746
0.950	0.697	0.756	0.767	0.737	0.766	0.764	0.764	0.721
0.960	0.658	0.729	0.735	0.720	0.738	0.740	0.744	0.696
0.970	0.623	0.703	0.694	0.687	0.706	0.715	0.711	0.670
0.980	0.593	0.674	0.652	0.648	0.673	0.690	0.677	0.645
0.990	0.564	0.634	0.612	0.610	0.641	0.662	0.640	0.614
1.000	0.501	0.595	0.581	0.572	0.609	0.616	0.597	0.582
1.010	0.454	0.554	0.550	0.533	0.568	0.570	0.523	0.549
1.020	0.426	0.496	0.519	0.498	0.521	0.523	0.495	0.516
1.030	0.398	0.438	0.488	0.464	0.475	0.492	0.466	0.484
1.040	0.369	0.401	0.457	0.430	0.442	0.466	0.441	0.452
1.050	0.340	0.372	0.423	0.396	0.422	0.440	0.423	0.420
1.060	0.312	0.343	0.386	0.362	0.402	0.414	0.405	0.398
1.070	0.283	0.315	0.350	0.328	0.382	0.388	0.388	0.378
1.080	0.252	0.286	0.313	0.297	0.362	0.363	0.370	0.358
1.100	0.197	0.255	0.267	0.261	0.322	0.313	0.337	0.319
1.150	0.126	0.181	0.191	0.196	0.226	0.238	0.261	0.259
1.200	0.083	0.109	0.134	0.154	0.174	0.189	0.207	0.214
1.300	0.046	0.066	0.098	0.114	0.137	0.144	0.159	0.173

4 MV 8 X 8 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.038	0.051	0.078	0.094	0.114	0.120	0.134	0.149
1.500	0.032	0.042	0.067	0.081	0.100	0.105	0.120	0.133
1.600	0.027	0.037	0.061	0.070	0.087	0.093	0.107	0.118
1.700	0.025	0.032	0.054	0.060	0.081	0.083	0.096	0.103
1.800	0.023	0.028	0.049	0.054	0.073	0.074	0.088	0.094
1.900	0.021	0.025	0.043	0.047	0.064	0.066	0.080	0.085
2.000	0.019	0.022	0.037	0.041	0.058	0.060	0.073	0.078
2.100	0.018	0.019	0.033	0.038	0.053	0.054	0.066	0.072
2.200	0.017	0.017	0.030	0.034	0.048	0.049	0.059	0.066
2.300	0.017	0.015	0.026	0.031	0.044	0.044	0.052	0.061
2.400	0.015	0.014	0.024	0.028	0.039	0.040	0.047	0.056
2.500	0.014	0.012	0.022	0.026	0.035	0.036	0.044	0.052
2.600	0.013	0.011	0.020	0.024	0.033	0.032	0.040	0.049
2.700	0.011	0.009	0.019	0.022	0.031	0.028	0.038	0.045
2.800	0.011	0.008	0.018	0.019	0.029	0.026	0.035	
2.900	0.010	0.008	0.017	0.016	0.028			
3.000	0.009	0.007	0.017	0.013	0.026			
3.100	0.009	0.007	0.018					

x = Off-axis distance
h = Field half-width
x = 3.9 * x/h (80.0 + depth) / 80.0

4 MV 10 X 10 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.001	1.001	1.002	1.000	1.003	1.001	1.000	1.002
0.100	1.003	1.004	1.005	1.003	1.007	1.003	1.002	1.002
0.150	1.008	1.006	1.010	1.007	1.009	1.004	1.004	1.004
0.200	1.013	1.010	1.014	1.010	1.010	1.006	1.006	1.007
0.250	1.019	1.015	1.018	1.014	1.016	1.009	1.007	1.007
0.300	1.024	1.020	1.021	1.016	1.018	1.011	1.007	1.007
0.350	1.030	1.025	1.023	1.018	1.018	1.012	1.007	1.007
0.400	1.037	1.031	1.024	1.018	1.018	1.013	1.006	1.005
0.450	1.044	1.036	1.026	1.018	1.018	1.013	1.004	1.002
0.500	1.049	1.040	1.026	1.017	1.018	1.013	1.003	0.998
0.550	1.054	1.042	1.026	1.015	1.015	1.011	1.000	0.993
0.600	1.058	1.042	1.025	1.014	1.012	1.006	0.995	0.987
0.650	1.062	1.040	1.022	1.009	1.006	0.999	0.990	0.977
0.700	1.059	1.035	1.015	1.002	0.996	0.991	0.979	0.965
0.750	1.050	1.028	1.002	0.987	0.983	0.977	0.964	0.949
0.800	1.034	1.008	0.975	0.966	0.966	0.952	0.940	0.929
0.820	1.023	0.996	0.960	0.952	0.953	0.938	0.927	0.919
0.840	1.007	0.977	0.935	0.942	0.936	0.923	0.914	0.907
0.860	0.985	0.951	0.916	0.914	0.918	0.905	0.893	0.892
0.880	0.954	0.918	0.895	0.880	0.889	0.881	0.870	0.872
0.900	0.921	0.879	0.848	0.841	0.842	0.845	0.846	0.829
0.920	0.851	0.847	0.805	0.798	0.809	0.798	0.797	0.786
0.940	0.817	0.770	0.732	0.736	0.769	0.744	0.736	0.745
0.950	0.783	0.723	0.696	0.695	0.729	0.721	0.705	0.712
0.960	0.714	0.682	0.661	0.654	0.695	0.698	0.668	0.679
0.970	0.656	0.643	0.626	0.615	0.664	0.661	0.629	0.641
0.980	0.620	0.591	0.590	0.579	0.634	0.625	0.590	0.604
0.990	0.571	0.545	0.554	0.543	0.590	0.577	0.552	0.564
1.000	0.500	0.506	0.518	0.507	0.541	0.528	0.517	0.516
1.010	0.430	0.463	0.467	0.465	0.494	0.492	0.485	0.468
1.020	0.371	0.419	0.410	0.415	0.448	0.455	0.454	0.440
1.030	0.331	0.374	0.369	0.365	0.402	0.406	0.422	0.419
1.040	0.294	0.328	0.342	0.340	0.369	0.367	0.391	0.399
1.050	0.265	0.290	0.315	0.319	0.343	0.345	0.361	0.379
1.060	0.236	0.252	0.289	0.298	0.317	0.323	0.343	0.359
1.070	0.210	0.233	0.262	0.277	0.291	0.305	0.326	0.339
1.080	0.186	0.215	0.243	0.256	0.272	0.291	0.308	0.319
1.100	0.144	0.180	0.207	0.224	0.247	0.261	0.274	0.282
1.150	0.082	0.118	0.140	0.165	0.185	0.201	0.210	0.236
1.200	0.057	0.090	0.117	0.137	0.154	0.172	0.182	0.211
1.300	0.042	0.064	0.087	0.109	0.126	0.140	0.153	0.179

4 MV 10 X 10 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.035	0.053	0.074	0.092	0.109	0.121	0.133	0.156
1.500	0.031	0.045	0.061	0.080	0.096	0.107	0.119	0.139
1.600	0.026	0.038	0.053	0.069	0.085	0.095	0.103	0.124
1.700	0.023	0.033	0.046	0.060	0.075	0.084	0.091	0.111
1.800	0.020	0.030	0.041	0.052	0.066	0.073	0.080	0.098
1.900	0.019	0.026	0.036	0.047	0.058	0.067	0.070	0.090
2.000	0.018	0.023	0.033	0.042	0.051	0.060	0.063	0.083
2.100	0.017	0.020	0.030	0.038	0.045	0.055	0.057	0.076
2.200	0.016	0.018	0.027	0.035	0.042	0.051	0.051	0.068
2.300	0.014	0.017	0.024	0.031	0.038	0.046	0.046	0.061
2.400	0.013	0.016	0.021	0.028	0.035	0.041	0.041	
2.500	0.012	0.014	0.018	0.024	0.032	0.035	0.036	
2.600	0.011	0.012	0.017	0.021	0.029			
2.700	0.009	0.010	0.016	0.019				
2.800	0.009	0.010	0.015					
2.900	0.008	0.009	0.013					
3.000	0.008		0.012					
3.100	0.008							

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (80.0 + depth) / 80.0

4 MV 12 X 12 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.005	1.003	1.005	1.001	1.003	1.004	1.002	0.999
0.100	1.010	1.006	1.010	1.004	1.007	1.008	1.004	1.002
0.150	1.015	1.012	1.014	1.007	1.009	1.011	1.009	1.004
0.200	1.020	1.018	1.018	1.010	1.012	1.013	1.011	1.007
0.250	1.028	1.022	1.022	1.013	1.014	1.014	1.014	1.008
0.300	1.032	1.027	1.029	1.016	1.017	1.015	1.016	1.008
0.350	1.040	1.033	1.034	1.019	1.018	1.014	1.016	1.007
0.400	1.049	1.039	1.039	1.020	1.017	1.014	1.016	1.006
0.450	1.058	1.045	1.041	1.021	1.017	1.014	1.014	1.003
0.500	1.063	1.050	1.041	1.021	1.016	1.013	1.010	0.999
0.550	1.067	1.054	1.041	1.020	1.010	1.008	1.005	0.992
0.600	1.071	1.052	1.039	1.017	1.004	1.001	1.000	0.986
0.650	1.074	1.049	1.035	1.012	0.997	0.994	0.992	0.973
0.700	1.073	1.044	1.027	1.006	0.988	0.985	0.981	0.959
0.750	1.069	1.038	1.014	0.995	0.977	0.973	0.964	0.943
0.800	1.060	1.023	0.996	0.975	0.956	0.956	0.944	0.925
0.820	1.055	1.013	0.987	0.964	0.943	0.946	0.934	0.915
0.840	1.047	1.001	0.977	0.953	0.928	0.935	0.922	0.904
0.860	1.036	0.985	0.965	0.939	0.912	0.924	0.908	0.887
0.880	1.004	0.963	0.944	0.916	0.884	0.906	0.891	0.867
0.900	0.949	0.911	0.907	0.886	0.852	0.885	0.862	0.842
0.920	0.919	0.850	0.866	0.853	0.813	0.846	0.823	0.810
0.940	0.873	0.797	0.814	0.795	0.774	0.793	0.773	0.772
0.950	0.843	0.776	0.777	0.763	0.726	0.762	0.743	0.744
0.960	0.761	0.714	0.716	0.731	0.662	0.727	0.710	0.705
0.970	0.727	0.669	0.668	0.676	0.623	0.688	0.677	0.666
0.980	0.616	0.631	0.628	0.631	0.583	0.642	0.622	0.621
0.990	0.559	0.558	0.587	0.592	0.543	0.593	0.570	0.574
1.000	0.499	0.507	0.521	0.521	0.503	0.523	0.527	0.522
1.010	0.440	0.455	0.459	0.469	0.464	0.470	0.462	0.463
1.020	0.396	0.394	0.403	0.427	0.424	0.431	0.423	0.427
1.030	0.354	0.357	0.359	0.387	0.384	0.392	0.394	0.404
1.040	0.314	0.321	0.321	0.350	0.344	0.360	0.365	0.381
1.050	0.276	0.286	0.289	0.320	0.303	0.334	0.339	0.358
1.060	0.241	0.253	0.270	0.293	0.277	0.308	0.314	0.335
1.070	0.212	0.222	0.251	0.263	0.261	0.286	0.289	0.313
1.080	0.184	0.204	0.232	0.236	0.246	0.268	0.274	0.298
1.100	0.142	0.169	0.197	0.205	0.221	0.236	0.245	0.273
1.150	0.081	0.109	0.137	0.164	0.176	0.193	0.209	0.235
1.200	0.061	0.090	0.111	0.139	0.154	0.170	0.185	0.211
1.300	0.046	0.070	0.090	0.112	0.131	0.142	0.154	0.180

4 MV 12 X 12 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.039	0.058	0.077	0.092	0.110	0.121	0.135	0.155
1.500	0.035	0.049	0.066	0.078	0.094	0.105	0.117	0.136
1.600	0.032	0.043	0.055	0.068	0.083	0.092	0.102	0.119
1.700	0.029	0.038	0.047	0.060	0.073	0.079	0.088	0.106
1.800	0.025	0.033	0.043	0.052	0.064	0.070	0.078	0.095
1.900	0.022	0.028	0.038	0.048	0.056	0.063	0.070	0.085
2.000	0.021	0.025	0.033	0.043	0.049	0.055	0.061	0.074
2.100	0.020	0.023	0.029	0.038	0.044	0.047	0.053	0.061
2.200	0.019	0.021	0.026	0.033	0.039	0.040	0.044	
2.300	0.016	0.019	0.024	0.028	0.035	0.035		
2.400	0.014	0.017	0.021	0.024	0.032			
2.500	0.013	0.015	0.019	0.021				
2.600	0.013	0.014	0.017					
2.700	0.012	0.012						
2.800	0.011	0.007						
2.900	0.010							

x = Off-axis distance
h = Field half-width
x = 6.0 * x/h (80.0 + depth) / 80.0

4 MV 14 X 14 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.005	1.001	1.002	1.002	1.000	1.003	0.999	1.002
0.100	1.011	1.006	1.005	1.006	1.002	1.005	1.001	1.003
0.150	1.017	1.011	1.010	1.009	1.005	1.007	1.005	1.004
0.200	1.022	1.019	1.015	1.014	1.010	1.009	1.008	1.006
0.250	1.031	1.028	1.021	1.020	1.013	1.012	1.012	1.008
0.300	1.040	1.038	1.027	1.025	1.015	1.015	1.015	1.008
0.350	1.048	1.044	1.031	1.029	1.017	1.015	1.016	1.005
0.400	1.057	1.049	1.035	1.034	1.017	1.014	1.016	1.003
0.450	1.064	1.052	1.039	1.033	1.019	1.013	1.012	0.997
0.500	1.070	1.055	1.040	1.033	1.019	1.010	1.007	0.992
0.550	1.074	1.058	1.040	1.030	1.015	1.006	1.001	0.982
0.600	1.082	1.057	1.038	1.025	1.009	1.000	0.992	0.973
0.650	1.085	1.058	1.033	1.019	1.000	0.991	0.980	0.963
0.700	1.082	1.054	1.025	1.009	0.989	0.979	0.968	0.952
0.750	1.078	1.048	1.014	0.997	0.976	0.964	0.954	0.937
0.800	1.069	1.037	1.004	0.980	0.959	0.946	0.942	0.922
0.820	1.062	1.031	0.997	0.972	0.951	0.937	0.932	0.912
0.840	1.052	1.024	0.984	0.963	0.944	0.927	0.922	0.901
0.860	1.037	1.012	0.967	0.950	0.934	0.914	0.907	0.889
0.880	1.017	0.998	0.945	0.933	0.920	0.899	0.886	0.871
0.900	0.979	0.950	0.919	0.894	0.889	0.876	0.859	0.849
0.920	0.907	0.902	0.866	0.848	0.837	0.838	0.821	0.818
0.940	0.836	0.841	0.791	0.794	0.782	0.780	0.765	0.769
0.950	0.804	0.808	0.739	0.753	0.755	0.745	0.736	0.739
0.960	0.726	0.764	0.687	0.715	0.703	0.708	0.690	0.697
0.970	0.672	0.706	0.634	0.678	0.648	0.671	0.638	0.657
0.980	0.597	0.606	0.581	0.623	0.593	0.622	0.587	0.620
0.990	0.549	0.548	0.528	0.575	0.537	0.568	0.537	0.580
1.000	0.499	0.486	0.471	0.524	0.481	0.512	0.487	0.524
1.010	0.440	0.423	0.408	0.445	0.424	0.461	0.449	0.478
1.020	0.365	0.368	0.346	0.400	0.384	0.418	0.412	0.439
1.030	0.293	0.316	0.305	0.353	0.352	0.379	0.375	0.402
1.040	0.251	0.275	0.280	0.306	0.320	0.350	0.345	0.367
1.050	0.209	0.246	0.255	0.271	0.289	0.322	0.320	0.338
1.060	0.170	0.217	0.231	0.241	0.269	0.297	0.294	0.322
1.070	0.143	0.188	0.206	0.223	0.254	0.274	0.270	0.306
1.080	0.125	0.171	0.186	0.207	0.238	0.252	0.259	0.290
1.100	0.097	0.147	0.166	0.183	0.214	0.227	0.238	0.269
1.150	0.066	0.102	0.132	0.149	0.177	0.186	0.202	0.232
1.200	0.053	0.083	0.113	0.129	0.155	0.167	0.181	0.207
1.300	0.042	0.068	0.091	0.106	0.129	0.139	0.152	0.176

4 MV 14 X 14 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.036	0.057	0.076	0.090	0.110	0.118	0.127	0.150
1.500	0.032	0.049	0.061	0.077	0.090	0.100	0.107	0.131
1.600	0.027	0.041	0.053	0.064	0.078	0.086	0.091	0.115
1.700	0.023	0.035	0.045	0.053	0.067	0.074	0.078	0.101
1.800	0.021	0.030	0.037	0.047	0.056	0.063	0.065	0.087
1.900	0.020	0.026	0.031	0.041	0.049	0.055	0.057	
2.000	0.018	0.023	0.029	0.035	0.042	0.044		
2.100	0.016	0.021	0.026	0.030	0.037			
2.200	0.014	0.019	0.022					
2.300	0.013	0.017	0.016					
2.400	0.012							
2.500	0.010							

x = Off-axis distance
h = Field half-width
x = 7.0 * x/h (80.0 + depth) / 80.0

4 MV 16 X 16 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.007	1.005	1.003	1.003	1.002	1.004	1.000	1.001
0.100	1.015	1.013	1.008	1.006	1.007	1.008	1.004	1.005
0.150	1.025	1.020	1.017	1.013	1.009	1.010	1.006	1.010
0.200	1.035	1.027	1.023	1.020	1.012	1.014	1.009	1.013
0.250	1.043	1.035	1.029	1.023	1.016	1.018	1.011	1.015
0.300	1.051	1.043	1.034	1.028	1.021	1.019	1.012	1.016
0.350	1.059	1.051	1.038	1.032	1.024	1.023	1.014	1.012
0.400	1.068	1.058	1.041	1.034	1.028	1.023	1.013	1.011
0.450	1.072	1.062	1.046	1.032	1.025	1.022	1.010	1.007
0.500	1.076	1.062	1.047	1.032	1.020	1.017	1.004	0.998
0.550	1.079	1.064	1.048	1.031	1.016	1.009	0.996	0.988
0.600	1.080	1.065	1.047	1.027	1.011	0.999	0.985	0.973
0.650	1.082	1.065	1.043	1.021	1.000	0.988	0.973	0.962
0.700	1.083	1.059	1.031	1.013	0.988	0.975	0.961	0.949
0.750	1.083	1.051	1.020	1.000	0.974	0.959	0.947	0.932
0.800	1.078	1.039	1.005	0.985	0.956	0.934	0.928	0.911
0.820	1.076	1.034	0.998	0.978	0.948	0.924	0.920	0.901
0.840	1.071	1.026	0.990	0.967	0.938	0.914	0.910	0.890
0.860	1.062	1.017	0.980	0.955	0.926	0.902	0.900	0.878
0.880	1.048	1.004	0.963	0.934	0.910	0.885	0.886	0.860
0.900	1.017	0.978	0.930	0.910	0.886	0.861	0.864	0.836
0.920	0.957	0.941	0.895	0.872	0.848	0.827	0.835	0.806
0.940	0.873	0.854	0.844	0.817	0.801	0.774	0.797	0.763
0.950	0.822	0.791	0.810	0.776	0.769	0.746	0.743	0.740
0.960	0.764	0.749	0.771	0.740	0.743	0.717	0.712	0.714
0.970	0.689	0.714	0.726	0.686	0.709	0.653	0.676	0.688
0.980	0.628	0.668	0.623	0.616	0.630	0.597	0.629	0.651
0.990	0.577	0.525	0.549	0.537	0.588	0.520	0.561	0.595
1.000	0.500	0.479	0.513	0.497	0.547	0.474	0.511	0.518
1.010	0.414	0.426	0.469	0.459	0.452	0.442	0.470	0.463
1.020	0.313	0.371	0.385	0.407	0.392	0.394	0.431	0.427
1.030	0.262	0.325	0.344	0.356	0.349	0.356	0.384	0.392
1.040	0.214	0.274	0.294	0.314	0.314	0.323	0.339	0.360
1.050	0.176	0.229	0.252	0.277	0.289	0.299	0.315	0.331
1.060	0.149	0.195	0.221	0.255	0.265	0.275	0.292	0.306
1.070	0.134	0.170	0.205	0.233	0.246	0.254	0.273	0.288
1.080	0.118	0.154	0.189	0.216	0.227	0.235	0.254	0.274
1.100	0.088	0.128	0.161	0.186	0.200	0.214	0.231	0.257
1.150	0.066	0.096	0.128	0.149	0.169	0.181	0.200	0.220
1.200	0.057	0.081	0.111	0.130	0.149	0.162	0.181	0.197
1.300	0.045	0.063	0.088	0.102	0.122	0.134	0.151	0.166

4 MV 16 X 16 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.040	0.053	0.072	0.087	0.102	0.110	0.126	0.141
1.500	0.034	0.045	0.061	0.072	0.086	0.092	0.104	0.121
1.600	0.030	0.039	0.050	0.059	0.073	0.078	0.085	0.102
1.700	0.029	0.031	0.043	0.050	0.062	0.066	0.066	
1.800	0.025	0.028	0.036	0.041	0.050			
1.900	0.020	0.024	0.031	0.035				
2.000	0.018	0.020	0.026					
2.100	0.016	0.016						
2.200	0.014							

x = Off-axis distance
h = Field half-width
x = 8.1 * x/h (80.0 + depth) / 80.0

4 MV 18 X 18 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.004	1.003	1.007	1.002	1.004	1.003	1.003	1.001
0.100	1.014	1.008	1.012	1.009	1.009	1.006	1.007	1.003
0.150	1.023	1.018	1.019	1.019	1.013	1.012	1.010	1.003
0.200	1.034	1.028	1.026	1.023	1.022	1.017	1.011	1.004
0.250	1.044	1.039	1.036	1.030	1.026	1.020	1.012	1.004
0.300	1.053	1.051	1.043	1.034	1.029	1.024	1.012	1.003
0.350	1.062	1.057	1.048	1.038	1.030	1.023	1.012	1.002
0.400	1.071	1.065	1.051	1.041	1.031	1.021	1.011	1.000
0.450	1.077	1.068	1.052	1.041	1.027	1.018	1.008	0.994
0.500	1.081	1.072	1.050	1.037	1.023	1.013	1.001	0.983
0.550	1.083	1.074	1.048	1.032	1.017	1.005	0.991	0.973
0.600	1.085	1.071	1.046	1.025	1.010	0.996	0.980	0.960
0.650	1.086	1.066	1.038	1.016	1.004	0.986	0.965	0.946
0.700	1.085	1.060	1.031	1.006	0.989	0.971	0.948	0.932
0.750	1.085	1.054	1.021	0.995	0.973	0.955	0.929	0.917
0.800	1.082	1.048	1.008	0.980	0.955	0.936	0.905	0.897
0.820	1.079	1.043	1.002	0.972	0.946	0.927	0.895	0.886
0.840	1.076	1.037	0.993	0.964	0.937	0.917	0.884	0.874
0.860	1.067	1.030	0.985	0.953	0.926	0.905	0.872	0.860
0.880	1.056	1.020	0.973	0.939	0.913	0.891	0.858	0.847
0.900	1.036	0.997	0.959	0.920	0.893	0.870	0.842	0.824
0.920	0.993	0.959	0.934	0.896	0.865	0.839	0.816	0.801
0.940	0.933	0.887	0.874	0.855	0.827	0.792	0.771	0.768
0.950	0.881	0.841	0.841	0.790	0.795	0.765	0.744	0.737
0.960	0.794	0.803	0.789	0.762	0.753	0.725	0.711	0.692
0.970	0.725	0.759	0.748	0.716	0.717	0.667	0.673	0.656
0.980	0.658	0.701	0.671	0.671	0.627	0.609	0.621	0.608
0.990	0.566	0.608	0.619	0.614	0.547	0.555	0.561	0.556
1.000	0.500	0.526	0.523	0.534	0.503	0.488	0.467	0.497
1.010	0.451	0.458	0.473	0.462	0.440	0.422	0.414	0.430
1.020	0.304	0.385	0.380	0.406	0.381	0.377	0.371	0.380
1.030	0.247	0.312	0.335	0.352	0.341	0.338	0.340	0.354
1.040	0.212	0.260	0.294	0.298	0.303	0.305	0.309	0.329
1.050	0.177	0.223	0.257	0.262	0.258	0.280	0.283	0.306
1.060	0.144	0.188	0.225	0.237	0.242	0.262	0.260	0.288
1.070	0.116	0.167	0.203	0.218	0.227	0.245	0.248	0.273
1.080	0.100	0.147	0.189	0.200	0.212	0.228	0.238	0.261
1.100	0.081	0.129	0.155	0.173	0.195	0.208	0.220	0.243
1.150	0.060	0.097	0.123	0.144	0.164	0.180	0.191	0.213
1.200	0.053	0.081	0.104	0.124	0.146	0.161	0.168	0.192
1.300	0.044	0.067	0.082	0.102	0.117	0.131	0.138	0.158

4 MV 18 X 18 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.037	0.056	0.066	0.084	0.097	0.106	0.113	0.131
1.500	0.032	0.046	0.053	0.068	0.080	0.086	0.091	
1.600	0.027	0.038	0.043	0.055	0.065	0.071		
1.700	0.024	0.033	0.034	0.042	0.053			
1.800	0.020	0.027	0.030					
1.900	0.018	0.021						
2.000	0.014							

x = Off-axis distance
h = Field half-width
x = 9.1 * x/h (80.0 + depth) / 80.0

4 MV 20 X 20 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.002	1.000	1.000	0.996	1.003	1.001	0.998	0.997
0.100	1.011	1.004	1.001	1.002	1.010	1.007	1.001	1.000
0.150	1.021	1.011	1.011	1.012	1.016	1.010	1.007	1.006
0.200	1.033	1.020	1.019	1.020	1.023	1.014	1.011	1.011
0.250	1.047	1.035	1.031	1.026	1.029	1.019	1.017	1.014
0.300	1.057	1.047	1.038	1.032	1.032	1.021	1.019	1.017
0.350	1.067	1.056	1.044	1.037	1.034	1.021	1.018	1.016
0.400	1.072	1.061	1.048	1.039	1.033	1.023	1.017	1.015
0.450	1.078	1.064	1.049	1.037	1.030	1.018	1.014	1.011
0.500	1.083	1.065	1.050	1.036	1.027	1.012	1.006	0.999
0.550	1.085	1.067	1.048	1.033	1.023	1.005	0.997	0.985
0.600	1.088	1.067	1.044	1.027	1.015	0.997	0.986	0.969
0.650	1.087	1.064	1.037	1.017	1.003	0.986	0.971	0.957
0.700	1.086	1.058	1.028	1.005	0.989	0.973	0.952	0.941
0.750	1.083	1.050	1.018	0.993	0.974	0.957	0.937	0.921
0.800	1.080	1.040	1.003	0.979	0.958	0.937	0.915	0.899
0.820	1.079	1.035	0.996	0.972	0.950	0.928	0.905	0.891
0.840	1.076	1.030	0.990	0.964	0.943	0.919	0.894	0.880
0.860	1.072	1.024	0.984	0.955	0.932	0.910	0.884	0.869
0.880	1.068	1.017	0.975	0.942	0.918	0.893	0.873	0.859
0.900	1.054	1.006	0.962	0.927	0.899	0.875	0.852	0.846
0.920	1.026	0.988	0.939	0.903	0.875	0.853	0.824	0.820
0.940	0.980	0.933	0.901	0.857	0.839	0.815	0.788	0.788
0.950	0.941	0.886	0.863	0.830	0.813	0.785	0.762	0.770
0.960	0.891	0.844	0.830	0.795	0.765	0.746	0.733	0.744
0.970	0.785	0.802	0.787	0.729	0.709	0.697	0.696	0.713
0.980	0.737	0.729	0.730	0.661	0.649	0.644	0.641	0.681
0.990	0.663	0.658	0.633	0.548	0.590	0.594	0.581	0.628
1.000	0.500	0.560	0.521	0.501	0.528	0.549	0.523	0.550
1.010	0.378	0.441	0.440	0.454	0.472	0.470	0.469	0.465
1.020	0.320	0.378	0.381	0.378	0.414	0.394	0.416	0.433
1.030	0.264	0.313	0.326	0.313	0.331	0.332	0.371	0.398
1.040	0.210	0.258	0.286	0.272	0.293	0.304	0.330	0.362
1.050	0.179	0.222	0.246	0.245	0.265	0.286	0.296	0.338
1.060	0.153	0.189	0.222	0.228	0.243	0.268	0.267	0.313
1.070	0.127	0.162	0.199	0.212	0.226	0.251	0.254	0.295
1.080	0.110	0.146	0.180	0.199	0.215	0.234	0.242	0.280
1.100	0.088	0.124	0.155	0.182	0.197	0.215	0.226	0.263
1.150	0.066	0.100	0.129	0.152	0.167	0.184	0.200	0.230
1.200	0.059	0.087	0.111	0.133	0.149	0.162	0.176	0.207
1.300	0.049	0.067	0.087	0.105	0.121	0.133	0.144	0.167

4 MV 20 X 20 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.043	0.055	0.072	0.085	0.097	0.108	0.117	0.141
1.500	0.038	0.045	0.059	0.071	0.081	0.092	0.099	0.120
1.600	0.034	0.038	0.051	0.059	0.068	0.077	0.083	0.102
1.700	0.029	0.033	0.043	0.050	0.058	0.066	0.071	0.086
1.800	0.026	0.029	0.036	0.044	0.047	0.056	0.059	
1.900	0.023	0.026	0.031	0.038	0.041	0.047	0.052	
2.000	0.020	0.024	0.028	0.033	0.036			
2.100	0.017	0.021	0.026	0.030				
2.200	0.015	0.019	0.022					
2.300	0.015	0.016	0.020					
2.400	0.016							
2.500	0.013							

x = Off-axis distance
h = Field half-width
x = 10.0 * x/h (80.0 + depth) / 80.0

4 MV 22 X 22 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.001	1.005	1.001	1.001	1.005	1.000	1.004	1.001
0.100	1.010	1.013	1.008	1.007	1.014	1.004	1.009	1.004
0.150	1.023	1.026	1.021	1.016	1.020	1.008	1.015	1.008
0.200	1.038	1.037	1.031	1.027	1.025	1.014	1.018	1.011
0.250	1.053	1.050	1.039	1.033	1.033	1.021	1.023	1.012
0.300	1.063	1.060	1.048	1.038	1.036	1.024	1.026	1.011
0.350	1.072	1.069	1.051	1.042	1.037	1.025	1.028	1.008
0.400	1.080	1.071	1.054	1.045	1.035	1.026	1.020	1.005
0.450	1.082	1.072	1.056	1.040	1.030	1.021	1.013	0.994
0.500	1.082	1.072	1.053	1.034	1.023	1.013	1.004	0.982
0.550	1.083	1.072	1.048	1.028	1.017	1.004	0.995	0.970
0.600	1.085	1.069	1.042	1.022	1.007	0.995	0.983	0.958
0.650	1.084	1.065	1.034	1.013	0.994	0.983	0.968	0.943
0.700	1.083	1.061	1.026	1.003	0.980	0.968	0.950	0.924
0.750	1.083	1.054	1.014	0.989	0.962	0.951	0.928	0.905
0.800	1.080	1.045	1.001	0.973	0.940	0.931	0.906	0.883
0.820	1.080	1.041	0.995	0.965	0.931	0.921	0.897	0.873
0.840	1.079	1.035	0.988	0.957	0.923	0.910	0.888	0.862
0.860	1.076	1.029	0.978	0.944	0.915	0.897	0.878	0.850
0.880	1.070	1.018	0.964	0.930	0.900	0.885	0.866	0.838
0.900	1.059	0.999	0.945	0.913	0.879	0.868	0.851	0.819
0.920	1.038	0.968	0.912	0.877	0.847	0.837	0.829	0.794
0.940	0.972	0.875	0.857	0.838	0.807	0.796	0.787	0.746
0.950	0.935	0.829	0.813	0.782	0.783	0.768	0.761	0.714
0.960	0.845	0.726	0.771	0.727	0.734	0.716	0.735	0.683
0.970	0.755	0.664	0.650	0.690	0.666	0.651	0.668	0.648
0.980	0.668	0.603	0.544	0.658	0.569	0.566	0.597	0.597
0.990	0.583	0.530	0.484	0.498	0.493	0.507	0.499	0.526
1.000	0.501	0.378	0.411	0.430	0.416	0.437	0.442	0.461
1.010	0.390	0.310	0.348	0.361	0.372	0.387	0.396	0.413
1.020	0.299	0.266	0.293	0.293	0.329	0.348	0.353	0.373
1.030	0.240	0.220	0.255	0.257	0.295	0.309	0.318	0.335
1.040	0.191	0.177	0.225	0.235	0.262	0.277	0.299	0.305
1.050	0.157	0.158	0.202	0.219	0.242	0.259	0.279	0.290
1.060	0.132	0.141	0.181	0.204	0.223	0.243	0.261	0.278
1.070	0.116	0.132	0.168	0.193	0.210	0.229	0.245	0.269
1.080	0.102	0.123	0.156	0.183	0.201	0.220	0.234	0.260
1.100	0.084	0.113	0.143	0.168	0.188	0.205	0.219	0.246
1.150	0.067	0.095	0.119	0.141	0.165	0.178	0.193	0.218
1.200	0.058	0.082	0.103	0.127	0.147	0.160	0.169	0.196
1.300	0.046	0.064	0.081	0.100	0.116	0.127	0.139	0.161

4 MV 22 X 22 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.041	0.056	0.066	0.082	0.094	0.104	0.113	0.136
1.500	0.037	0.045	0.054	0.067	0.078	0.086	0.093	0.114
1.600	0.032	0.037	0.043	0.055	0.066	0.072	0.078	0.094
1.700	0.026	0.032	0.036	0.048	0.057	0.062	0.065	0.078
1.800	0.021	0.029	0.031	0.042	0.050	0.054		
1.900	0.019	0.025	0.029	0.036		0.047		
2.000	0.018	0.021	0.026	0.031				
2.100	0.016	0.019	0.022					
2.200	0.014	0.017						
2.300	0.013							

x = Off-axis distance
h = Field half-width
x = 11.0 * x/h (80.0 + depth) / 80.0

4 MV 24 X 24 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.004	1.006	1.003	1.002	1.007	1.003	1.004	1.003
0.100	1.014	1.014	1.012	1.010	1.015	1.012	1.013	1.008
0.150	1.024	1.027	1.024	1.017	1.024	1.016	1.020	1.011
0.200	1.038	1.041	1.035	1.026	1.030	1.022	1.026	1.017
0.250	1.054	1.053	1.043	1.036	1.034	1.023	1.028	1.022
0.300	1.070	1.062	1.051	1.042	1.039	1.028	1.028	1.022
0.350	1.083	1.068	1.056	1.045	1.041	1.032	1.025	1.021
0.400	1.089	1.073	1.058	1.045	1.036	1.028	1.025	1.016
0.450	1.091	1.075	1.056	1.044	1.033	1.021	1.020	1.005
0.500	1.091	1.075	1.053	1.041	1.031	1.017	1.011	0.994
0.550	1.092	1.073	1.050	1.035	1.027	1.007	0.999	0.980
0.600	1.092	1.069	1.046	1.029	1.017	0.991	0.985	0.964
0.650	1.091	1.067	1.040	1.016	1.003	0.976	0.969	0.948
0.700	1.090	1.065	1.031	1.004	0.986	0.961	0.950	0.929
0.750	1.091	1.060	1.020	0.992	0.968	0.944	0.931	0.909
0.800	1.088	1.052	1.005	0.976	0.949	0.925	0.907	0.885
0.820	1.086	1.047	0.998	0.969	0.939	0.913	0.896	0.873
0.840	1.086	1.041	0.991	0.960	0.929	0.902	0.882	0.861
0.860	1.085	1.034	0.983	0.950	0.917	0.890	0.869	0.850
0.880	1.081	1.026	0.975	0.938	0.904	0.877	0.853	0.840
0.900	1.074	1.011	0.966	0.927	0.892	0.863	0.837	0.826
0.920	1.054	0.985	0.937	0.908	0.871	0.840	0.818	0.809
0.940	1.010	0.946	0.900	0.878	0.823	0.808	0.774	0.776
0.950	0.957	0.892	0.862	0.854	0.795	0.790	0.750	0.758
0.960	0.921	0.823	0.809	0.821	0.746	0.757	0.723	0.737
0.970	0.849	0.760	0.759	0.766	0.703	0.707	0.689	0.714
0.980	0.715	0.669	0.680	0.695	0.644	0.644	0.629	0.677
0.990	0.633	0.538	0.597	0.575	0.561	0.539	0.560	0.630
1.000	0.500	0.431	0.525	0.484	0.462	0.472	0.502	0.535
1.010	0.391	0.348	0.358	0.392	0.377	0.390	0.453	0.475
1.020	0.256	0.281	0.316	0.333	0.322	0.350	0.361	0.415
1.030	0.207	0.228	0.275	0.294	0.295	0.313	0.331	0.360
1.040	0.172	0.189	0.243	0.261	0.269	0.278	0.301	0.332
1.050	0.142	0.165	0.211	0.231	0.247	0.250	0.277	0.307
1.060	0.122	0.149	0.193	0.201	0.229	0.234	0.257	0.289
1.070	0.104	0.138	0.176	0.188	0.215	0.224	0.248	0.272
1.080	0.092	0.126	0.163	0.177	0.204	0.214	0.238	0.260
1.100	0.080	0.111	0.147	0.165	0.189	0.198	0.221	0.240
1.150	0.065	0.090	0.121	0.140	0.163	0.172	0.189	0.214
1.200	0.057	0.075	0.104	0.123	0.143	0.149	0.169	0.191
1.300	0.048	0.062	0.081	0.094	0.115	0.123	0.134	0.152

4 MV 24 X 24 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.040	0.048	0.065	0.076	0.092	0.095	0.111	0.123
1.500	0.033	0.040	0.053	0.062	0.076	0.076	0.088	0.100
1.600	0.027	0.034	0.046	0.050	0.062	0.064		
1.700	0.024	0.029	0.037	0.042	0.048			
1.800	0.021	0.024	0.031	0.036				
1.900	0.018	0.021						
2.000	0.018	0.018						

x = Off-axis distance
h = Field half-width
x = 12.0 * x/h (80.0 + depth) / 80.0

4 MV 26 X 26 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.008	1.007	1.006	1.007	1.007	1.000	1.003	1.004
0.100	1.023	1.019	1.016	1.016	1.018	1.009	1.009	1.011
0.150	1.036	1.034	1.029	1.027	1.023	1.017	1.017	1.016
0.200	1.052	1.043	1.042	1.034	1.031	1.024	1.024	1.018
0.250	1.067	1.057	1.053	1.042	1.038	1.027	1.031	1.021
0.300	1.077	1.068	1.063	1.049	1.043	1.029	1.031	1.023
0.350	1.082	1.071	1.064	1.052	1.047	1.030	1.031	1.019
0.400	1.086	1.076	1.064	1.052	1.047	1.029	1.028	1.011
0.450	1.089	1.078	1.064	1.051	1.042	1.024	1.020	1.004
0.500	1.093	1.077	1.063	1.047	1.035	1.017	1.010	0.993
0.550	1.095	1.074	1.058	1.042	1.029	1.005	0.999	0.980
0.600	1.095	1.071	1.053	1.034	1.017	0.992	0.984	0.965
0.650	1.095	1.068	1.046	1.022	1.004	0.978	0.965	0.947
0.700	1.094	1.064	1.038	1.009	0.991	0.960	0.942	0.925
0.750	1.092	1.060	1.026	0.992	0.974	0.940	0.918	0.904
0.800	1.091	1.053	1.010	0.973	0.947	0.917	0.894	0.878
0.820	1.090	1.049	1.004	0.966	0.936	0.905	0.883	0.866
0.840	1.087	1.045	0.998	0.959	0.926	0.894	0.871	0.855
0.860	1.085	1.041	0.992	0.950	0.915	0.883	0.860	0.844
0.880	1.084	1.034	0.982	0.942	0.901	0.871	0.846	0.831
0.900	1.077	1.022	0.966	0.929	0.885	0.858	0.826	0.814
0.920	1.058	0.996	0.944	0.906	0.868	0.839	0.801	0.793
0.940	1.024	0.963	0.904	0.869	0.845	0.798	0.767	0.758
0.950	0.999	0.927	0.878	0.843	0.813	0.773	0.750	0.739
0.960	0.959	0.891	0.839	0.809	0.789	0.733	0.726	0.716
0.970	0.924	0.789	0.755	0.750	0.744	0.676	0.690	0.691
0.980	0.803	0.696	0.637	0.659	0.690	0.572	0.619	0.622
0.990	0.705	0.528	0.537	0.566	0.552	0.510	0.536	0.558
1.000	0.500	0.434	0.459	0.434	0.460	0.443	0.456	0.503
1.010	0.333	0.318	0.336	0.337	0.381	0.366	0.398	0.434
1.020	0.249	0.263	0.261	0.289	0.325	0.318	0.348	0.374
1.030	0.196	0.223	0.228	0.259	0.275	0.284	0.305	0.337
1.040	0.146	0.192	0.203	0.230	0.252	0.257	0.271	0.315
1.050	0.114	0.159	0.185	0.204	0.230	0.240	0.252	0.293
1.060	0.096	0.142	0.169	0.195	0.218	0.229	0.238	0.276
1.070	0.088	0.133	0.159	0.185	0.207	0.219	0.228	0.263
1.080	0.080	0.126	0.151	0.176	0.195	0.212	0.221	0.255
1.100	0.072	0.115	0.139	0.161	0.181	0.197	0.207	0.240
1.150	0.063	0.094	0.114	0.141	0.154	0.171	0.180	0.212
1.200	0.057	0.084	0.097	0.120	0.135	0.152	0.160	0.187
1.300	0.045	0.065	0.075	0.094	0.105	0.121	0.123	0.146

4 MV 26 X 26 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.036	0.054	0.060	0.076	0.083	0.096	0.097	0.120
1.500	0.029	0.045	0.049	0.062	0.066	0.080		
1.600	0.025	0.037	0.038	0.052				
1.700	0.021	0.032	0.030	0.045				
1.800	0.018	0.028						

x = Off-axis distance
h = Field half-width
x = 13.0 * x/h (80.0 + depth) / 80.0

4 MV 28 X 28 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.008	1.011	1.008	1.009	1.007	1.005	1.008	1.007
0.100	1.021	1.024	1.019	1.022	1.015	1.013	1.013	1.011
0.150	1.039	1.035	1.036	1.035	1.024	1.018	1.024	1.015
0.200	1.058	1.052	1.047	1.045	1.034	1.021	1.028	1.015
0.250	1.076	1.065	1.055	1.052	1.043	1.028	1.031	1.022
0.300	1.088	1.072	1.066	1.055	1.048	1.029	1.030	1.022
0.350	1.092	1.075	1.068	1.058	1.045	1.030	1.030	1.020
0.400	1.094	1.080	1.068	1.059	1.042	1.029	1.025	1.013
0.450	1.095	1.081	1.067	1.058	1.036	1.024	1.016	1.005
0.500	1.096	1.081	1.064	1.054	1.029	1.016	1.010	0.992
0.550	1.100	1.083	1.060	1.046	1.020	1.005	0.994	0.977
0.600	1.103	1.080	1.055	1.035	1.009	0.992	0.981	0.963
0.650	1.105	1.077	1.048	1.023	0.996	0.979	0.964	0.946
0.700	1.105	1.072	1.037	1.010	0.980	0.962	0.943	0.924
0.750	1.105	1.069	1.027	0.995	0.966	0.943	0.920	0.898
0.800	1.106	1.063	1.015	0.975	0.944	0.920	0.896	0.874
0.820	1.106	1.060	1.009	0.967	0.933	0.908	0.886	0.860
0.840	1.106	1.056	1.003	0.959	0.922	0.895	0.871	0.847
0.860	1.106	1.052	0.997	0.950	0.911	0.883	0.857	0.833
0.880	1.103	1.045	0.991	0.939	0.899	0.872	0.842	0.819
0.900	1.099	1.036	0.981	0.928	0.888	0.857	0.826	0.804
0.920	1.085	1.022	0.953	0.912	0.875	0.841	0.806	0.785
0.940	1.055	0.986	0.919	0.872	0.846	0.816	0.779	0.756
0.950	1.039	0.949	0.895	0.836	0.827	0.801	0.757	0.735
0.960	1.011	0.895	0.847	0.775	0.777	0.762	0.730	0.709
0.970	0.915	0.813	0.796	0.725	0.713	0.723	0.674	0.674
0.980	0.736	0.729	0.681	0.663	0.628	0.635	0.613	0.637
0.990	0.643	0.616	0.575	0.590	0.551	0.544	0.526	0.576
1.000	0.501	0.461	0.482	0.486	0.438	0.445	0.442	0.468
1.010	0.348	0.341	0.390	0.382	0.356	0.366	0.384	0.405
1.020	0.245	0.261	0.303	0.308	0.307	0.314	0.334	0.361
1.030	0.192	0.201	0.254	0.267	0.270	0.274	0.294	0.317
1.040	0.158	0.173	0.216	0.238	0.245	0.254	0.266	0.289
1.050	0.119	0.159	0.190	0.216	0.227	0.235	0.249	0.267
1.060	0.100	0.147	0.177	0.202	0.213	0.219	0.236	0.256
1.070	0.091	0.137	0.166	0.190	0.203	0.210	0.226	0.247
1.080	0.084	0.129	0.159	0.181	0.194	0.201	0.217	0.239
1.100	0.075	0.114	0.146	0.166	0.177	0.190	0.203	0.225
1.150	0.063	0.096	0.121	0.140	0.154	0.164	0.175	0.197
1.200	0.055	0.082	0.102	0.119	0.133	0.143	0.155	0.169
1.300	0.045	0.065	0.079	0.091	0.102	0.108	0.116	0.127

4 MV 28 X 28 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.035	0.051	0.062	0.074	0.080	0.085	0.087	
1.500	0.027	0.042	0.048	0.059	0.060			
1.600	0.022	0.036	0.038					
1.700	0.018							

x = Off-axis distance
h = Field half-width
x = 14.0 * x/h (80.0 + depth) / 80.0

4 MV 30 X 30 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.007	1.008	1.011	1.010	1.010	1.002	0.999	1.005
0.100	1.024	1.022	1.027	1.022	1.021	1.014	1.012	1.013
0.150	1.048	1.038	1.044	1.035	1.031	1.023	1.020	1.019
0.200	1.064	1.054	1.055	1.044	1.042	1.032	1.026	1.025
0.250	1.077	1.067	1.066	1.049	1.049	1.037	1.027	1.026
0.300	1.088	1.072	1.072	1.054	1.054	1.038	1.029	1.023
0.350	1.092	1.076	1.074	1.056	1.054	1.039	1.025	1.019
0.400	1.093	1.078	1.073	1.053	1.050	1.033	1.021	1.010
0.450	1.096	1.080	1.070	1.051	1.045	1.022	1.016	1.002
0.500	1.098	1.081	1.068	1.047	1.039	1.011	1.002	0.988
0.550	1.099	1.082	1.063	1.042	1.030	1.001	0.988	0.976
0.600	1.101	1.082	1.059	1.034	1.018	0.988	0.971	0.956
0.650	1.102	1.078	1.052	1.023	1.001	0.974	0.950	0.935
0.700	1.104	1.075	1.048	1.009	0.985	0.957	0.928	0.913
0.750	1.105	1.069	1.036	0.993	0.967	0.937	0.904	0.886
0.800	1.105	1.064	1.020	0.976	0.945	0.913	0.880	0.860
0.820	1.105	1.061	1.013	0.969	0.933	0.902	0.871	0.849
0.840	1.105	1.055	1.006	0.960	0.920	0.891	0.855	0.838
0.860	1.104	1.048	0.997	0.950	0.908	0.878	0.840	0.826
0.880	1.099	1.037	0.985	0.937	0.896	0.863	0.826	0.810
0.900	1.091	1.021	0.971	0.922	0.880	0.846	0.811	0.786
0.920	1.080	0.995	0.951	0.907	0.857	0.820	0.791	0.762
0.940	1.059	0.964	0.921	0.873	0.818	0.783	0.743	0.729
0.950	1.026	0.929	0.902	0.841	0.792	0.756	0.715	0.708
0.960	0.980	0.877	0.864	0.809	0.765	0.723	0.688	0.687
0.970	0.909	0.763	0.816	0.754	0.726	0.671	0.651	0.652
0.980	0.839	0.613	0.717	0.652	0.644	0.599	0.594	0.607
0.990	0.741	0.465	0.608	0.530	0.477	0.516	0.502	0.518
1.000	0.499	0.363	0.471	0.441	0.412	0.398	0.406	0.452
1.010	0.352	0.286	0.356	0.361	0.359	0.346	0.349	0.381
1.020	0.261	0.227	0.292	0.307	0.304	0.316	0.311	0.329
1.030	0.193	0.193	0.247	0.268	0.256	0.289	0.285	0.298
1.040	0.152	0.167	0.214	0.233	0.235	0.266	0.267	0.277
1.050	0.111	0.147	0.193	0.208	0.222	0.243	0.253	0.266
1.060	0.096	0.134	0.177	0.194	0.213	0.224	0.241	0.254
1.070	0.091	0.125	0.168	0.184	0.204	0.215	0.230	0.243
1.080	0.086	0.118	0.159	0.177	0.196	0.206	0.222	0.233
1.100	0.078	0.106	0.145	0.163	0.182	0.193	0.208	0.214
1.150	0.066	0.086	0.122	0.138	0.155	0.164	0.179	0.182
1.200	0.060	0.076	0.104	0.118	0.135	0.143	0.158	0.161
1.300	0.049	0.059	0.080	0.089	0.103	0.108	0.116	

4 MV 30 X 30 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.033	0.045	0.061	0.073	0.081	0.085		
1.500	0.030	0.033	0.052	0.056				
1.600	0.023	0.027						
1.700	0.021							

x = Off-axis distance
h = Field half-width
x = 15.0 * x/h (80.0 + depth) / 80.0

4 MV 32 X 32 cm Open Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.007	1.006	1.006	1.007	1.003	0.999	1.005	1.004
0.100	1.026	1.021	1.020	1.017	1.014	1.007	1.012	1.012
0.150	1.046	1.041	1.038	1.030	1.022	1.017	1.025	1.022
0.200	1.066	1.061	1.050	1.041	1.032	1.030	1.033	1.026
0.250	1.079	1.073	1.058	1.045	1.042	1.036	1.039	1.028
0.300	1.089	1.078	1.061	1.046	1.044	1.037	1.038	1.025
0.350	1.096	1.084	1.064	1.046	1.044	1.035	1.034	1.020
0.400	1.097	1.084	1.065	1.045	1.042	1.029	1.027	1.011
0.450	1.098	1.084	1.064	1.041	1.038	1.021	1.022	0.996
0.500	1.098	1.085	1.059	1.038	1.032	1.014	1.010	0.984
0.550	1.101	1.085	1.056	1.033	1.022	1.003	0.994	0.971
0.600	1.100	1.084	1.053	1.025	1.010	0.989	0.974	0.953
0.650	1.104	1.081	1.049	1.016	0.997	0.974	0.954	0.931
0.700	1.108	1.078	1.040	1.004	0.977	0.958	0.933	0.908
0.750	1.110	1.074	1.031	0.989	0.957	0.933	0.909	0.882
0.800	1.111	1.066	1.018	0.968	0.934	0.907	0.883	0.853
0.820	1.110	1.060	1.010	0.958	0.923	0.894	0.871	0.841
0.840	1.105	1.053	1.000	0.949	0.911	0.881	0.856	0.827
0.860	1.099	1.044	0.987	0.938	0.897	0.864	0.837	0.813
0.880	1.090	1.034	0.973	0.923	0.883	0.845	0.817	0.796
0.900	1.079	1.019	0.954	0.903	0.866	0.824	0.798	0.777
0.920	1.058	0.997	0.931	0.874	0.840	0.801	0.775	0.755
0.940	1.019	0.964	0.903	0.836	0.807	0.770	0.749	0.727
0.950	0.995	0.941	0.879	0.813	0.782	0.750	0.734	0.708
0.960	0.956	0.912	0.841	0.782	0.752	0.728	0.712	0.685
0.970	0.904	0.855	0.798	0.739	0.718	0.701	0.683	0.659
0.980	0.860	0.789	0.744	0.652	0.676	0.661	0.647	0.627
0.990	0.757	0.708	0.677	0.536	0.601	0.563	0.589	0.575
1.000	0.501	0.634	0.573	0.426	0.507	0.446	0.512	0.491
1.010	0.351	0.520	0.469	0.346	0.411	0.368	0.402	0.391
1.020	0.259	0.343	0.364	0.285	0.329	0.317	0.328	0.340
1.030	0.196	0.236	0.255	0.244	0.272	0.287	0.280	0.306
1.040	0.132	0.185	0.205	0.215	0.237	0.259	0.248	0.273
1.050	0.111	0.155	0.181	0.198	0.212	0.231	0.237	0.258
1.060	0.095	0.143	0.163	0.185	0.199	0.215	0.226	0.245
1.070	0.085	0.132	0.155	0.174	0.190	0.202	0.216	0.237
1.080	0.077	0.123	0.146	0.167	0.181	0.196	0.209	0.229
1.100	0.071	0.107	0.133	0.152	0.170	0.184	0.195	0.213
1.150	0.058	0.087	0.107	0.129	0.142	0.157	0.168	0.185
1.200	0.049	0.076	0.090	0.111	0.122	0.135	0.146	0.158
1.300	0.036	0.058	0.067	0.084	0.091	0.105		

4 MV 32 X 32 cm Open Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.030	0.045	0.049	0.063	0.073			
1.500	0.023	0.034	0.034					
1.600	0.018							
1.700	0.015							

x = Off-axis distance
h = Field half-width
x = 16.0 * x/h (80.0 + depth) / 80.0

4 MV 8 X 8 cm Wedge Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.014	1.017	1.019	1.017	1.016	1.012	1.014	1.010
0.100	1.029	1.035	1.039	1.033	1.032	1.028	1.028	1.020
0.150	1.050	1.052	1.055	1.046	1.048	1.044	1.044	1.033
0.200	1.070	1.070	1.071	1.059	1.061	1.060	1.060	1.046
0.250	1.091	1.087	1.087	1.075	1.074	1.076	1.074	1.059
0.300	1.113	1.104	1.103	1.090	1.087	1.092	1.088	1.073
0.350	1.135	1.123	1.120	1.106	1.102	1.107	1.101	1.086
0.400	1.157	1.142	1.137	1.122	1.117	1.119	1.115	1.099
0.450	1.179	1.161	1.154	1.138	1.132	1.132	1.129	1.111
0.500	1.202	1.181	1.170	1.152	1.147	1.146	1.143	1.123
0.550	1.227	1.201	1.187	1.164	1.162	1.159	1.156	1.133
0.600	1.252	1.219	1.204	1.176	1.178	1.168	1.169	1.139
0.650	1.266	1.231	1.216	1.188	1.186	1.176	1.174	1.140
0.700	1.272	1.239	1.216	1.193	1.185	1.171	1.174	1.138
0.750	1.271	1.233	1.209	1.189	1.176	1.158	1.162	1.127
0.800	1.253	1.211	1.189	1.158	1.145	1.137	1.135	1.107
0.820	1.237	1.191	1.170	1.141	1.125	1.122	1.121	1.095
0.840	1.188	1.164	1.140	1.106	1.090	1.101	1.103	1.073
0.860	1.135	1.142	1.112	1.076	1.063	1.066	1.081	1.042
0.880	1.092	1.092	1.084	1.046	1.038	1.028	1.056	1.000
0.900	1.049	1.025	1.044	1.011	0.990	0.993	1.010	0.958
0.920	0.992	0.949	0.964	0.971	0.943	0.915	0.953	0.916
0.940	0.780	0.868	0.881	0.845	0.903	0.826	0.892	0.854
0.950	0.746	0.819	0.845	0.788	0.836	0.793	0.851	0.824
0.960	0.712	0.770	0.808	0.749	0.784	0.751	0.807	0.793
0.970	0.678	0.731	0.766	0.710	0.741	0.712	0.762	0.753
0.980	0.653	0.695	0.723	0.667	0.699	0.677	0.717	0.696
0.990	0.531	0.659	0.680	0.617	0.661	0.641	0.673	0.638
1.000	0.501	0.622	0.626	0.566	0.623	0.605	0.632	0.581
1.010	0.473	0.585	0.571	0.523	0.585	0.567	0.598	0.547
1.020	0.444	0.547	0.523	0.485	0.547	0.525	0.565	0.518
1.030	0.415	0.510	0.483	0.448	0.510	0.483	0.531	0.489
1.040	0.387	0.472	0.444	0.410	0.472	0.442	0.497	0.460
1.050	0.355	0.422	0.405	0.375	0.435	0.417	0.467	0.431
1.060	0.322	0.373	0.378	0.345	0.401	0.396	0.438	0.405
1.070	0.288	0.339	0.352	0.316	0.381	0.375	0.408	0.384
1.080	0.255	0.313	0.325	0.287	0.362	0.354	0.379	0.364
1.100	0.203	0.262	0.272	0.253	0.322	0.312	0.337	0.325
1.150	0.124	0.180	0.204	0.190	0.224	0.226	0.258	0.262
1.200	0.093	0.129	0.158	0.158	0.183	0.190	0.223	0.227
1.300	0.059	0.091	0.115	0.123	0.141	0.158	0.174	0.192

4 MV 8 X 8 cm Wedge Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.050	0.074	0.095	0.106	0.121	0.137	0.152	0.172
1.500	0.046	0.065	0.083	0.093	0.106	0.121	0.136	0.152
1.600	0.041	0.059	0.076	0.083	0.096	0.110	0.123	0.137
1.700	0.038	0.052	0.069	0.074	0.087	0.099	0.114	0.123
1.800	0.035	0.047	0.063	0.066	0.080	0.090	0.104	0.113
1.900	0.033	0.044	0.058	0.060	0.073	0.083	0.096	0.106
2.000	0.031	0.040	0.053	0.054	0.070	0.075	0.091	0.099
2.100	0.029	0.037	0.050	0.052	0.066	0.071	0.086	0.092
2.200	0.027	0.033	0.047	0.050	0.061	0.068	0.080	
2.300	0.026	0.030	0.044	0.049	0.057	0.065		
2.400	0.025	0.028	0.042					
2.500	0.024	0.027	0.042					
2.600	0.023	0.027	0.042					
2.700	0.022	0.026	0.041					
2.800	0.022	0.025						
2.900	0.021							
3.000	0.021							

x = Off-axis distance
h = Field half-width
x = 4.0 * x/h (80.0 + depth) / 80.0

4 MV 8 X 8 cm Wedge Field

SSD = 80.0 cm
Field size definition distance = 80.0 cm
Profiles right of central axis

Beam profile (Off-center ratios)

	Depth (cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.985	0.985	0.989	0.985	0.988	0.985	0.988	0.990
0.100	0.970	0.970	0.978	0.971	0.976	0.971	0.976	0.979
0.150	0.956	0.959	0.969	0.960	0.967	0.961	0.965	0.969
0.200	0.942	0.947	0.960	0.950	0.957	0.952	0.956	0.958
0.250	0.934	0.936	0.951	0.939	0.948	0.942	0.946	0.947
0.300	0.925	0.926	0.942	0.930	0.939	0.931	0.936	0.937
0.350	0.919	0.916	0.933	0.921	0.931	0.921	0.926	0.928
0.400	0.913	0.909	0.925	0.911	0.922	0.912	0.915	0.920
0.450	0.908	0.903	0.916	0.901	0.912	0.902	0.904	0.911
0.500	0.904	0.896	0.908	0.892	0.902	0.892	0.895	0.902
0.550	0.900	0.888	0.899	0.883	0.891	0.881	0.885	0.893
0.600	0.896	0.880	0.891	0.874	0.881	0.870	0.876	0.885
0.650	0.885	0.870	0.883	0.863	0.869	0.862	0.866	0.877
0.700	0.876	0.860	0.869	0.851	0.855	0.848	0.853	0.865
0.750	0.856	0.846	0.845	0.832	0.828	0.833	0.839	0.853
0.800	0.830	0.820	0.814	0.805	0.792	0.806	0.809	0.830
0.820	0.818	0.805	0.803	0.793	0.771	0.784	0.797	0.817
0.840	0.796	0.788	0.771	0.782	0.750	0.757	0.779	0.795
0.860	0.775	0.769	0.746	0.765	0.729	0.731	0.761	0.774
0.880	0.754	0.750	0.726	0.734	0.709	0.705	0.739	0.748
0.900	0.731	0.715	0.707	0.706	0.674	0.677	0.712	0.711
0.920	0.666	0.680	0.670	0.678	0.638	0.638	0.683	0.673
0.940	0.617	0.632	0.622	0.649	0.603	0.590	0.640	0.636
0.950	0.595	0.608	0.598	0.632	0.585	0.565	0.618	0.616
0.960	0.572	0.583	0.572	0.608	0.567	0.540	0.597	0.597
0.970	0.550	0.558	0.546	0.585	0.547	0.515	0.571	0.577
0.980	0.509	0.524	0.520	0.561	0.528	0.490	0.543	0.557
0.990	0.462	0.490	0.492	0.538	0.506	0.465	0.515	0.538
1.000	0.419	0.456	0.454	0.505	0.477	0.441	0.487	0.518
1.010	0.394	0.422	0.415	0.461	0.448	0.416	0.460	0.495
1.020	0.368	0.382	0.378	0.417	0.420	0.393	0.437	0.471
1.030	0.342	0.340	0.311	0.385	0.392	0.374	0.414	0.447
1.040	0.314	0.298	0.304	0.359	0.365	0.356	0.391	0.423
1.050	0.281	0.280	0.297	0.334	0.339	0.338	0.368	0.402
1.060	0.248	0.261	0.290	0.312	0.316	0.319	0.347	0.382
1.070	0.221	0.242	0.284	0.295	0.292	0.294	0.328	0.362
1.080	0.195	0.223	0.270	0.277	0.278	0.265	0.308	0.342
1.100	0.165	0.196	0.218	0.256	0.250	0.238	0.280	0.303
1.150	0.114	0.143	0.166	0.183	0.194	0.193	0.223	0.242

4 MV 8 X 8 cm Wedge Field (continued)

	Depth (cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.200	0.081	0.100	0.120	0.151	0.150	0.159	0.185	0.215
1.300	0.046	0.066	0.087	0.106	0.121	0.131	0.149	0.178
1.400	0.039	0.056	0.075	0.088	0.100	0.115	0.130	0.152
1.500	0.034	0.050	0.066	0.079	0.091	0.103	0.113	0.136
1.600	0.032	0.044	0.057	0.071	0.084	0.091	0.103	0.124
1.700	0.028	0.040	0.050	0.064	0.076	0.083	0.095	0.115
1.800	0.024	0.037	0.047	0.059	0.068	0.076	0.090	0.106
1.900	0.024	0.034	0.042	0.054	0.062	0.069	0.085	0.099
2.000	0.023	0.032	0.038	0.049	0.055	0.063	0.080	0.093
2.100	0.022	0.030	0.037	0.046	0.050	0.058	0.072	0.087
2.200	0.021	0.028	0.036	0.042	0.046	0.055	0.066	0.080
2.300	0.021	0.026	0.036	0.039	0.043	0.052	0.064	0.077
2.400	0.020	0.025	0.033	0.035	0.038	0.050	0.052	0.072
2.500	0.020	0.025	0.030	0.033	0.036	0.046	0.046	0.068
2.600	0.019	0.026	0.026	0.032	0.033	0.043	0.041	0.064
2.700	0.019	0.025	0.025	0.026	0.031	0.040	0.037	0.060
2.800	0.019	0.025	0.023	0.023	0.029	0.038	0.033	0.056
2.900	0.020	0.027	0.021	0.021	0.026	0.036	0.030	0.053
3.000	0.018	0.028	0.020	0.019	0.024	0.034	0.027	0.049

x = Off-axis distance
h = Field half-width
x = 4.0 * x/h (80.0 + depth) / 80.0

4 MV 10 X 10 cm Wedge Field

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.019	1.021	1.017	1.015	1.017	1.016	1.018	1.015
0.100	1.041	1.042	1.035	1.035	1.036	1.032	1.036	1.028
0.150	1.063	1.064	1.058	1.057	1.055	1.050	1.051	1.044
0.200	1.089	1.087	1.081	1.079	1.074	1.068	1.067	1.059
0.250	1.111	1.113	1.104	1.100	1.093	1.087	1.083	1.073
0.300	1.141	1.140	1.126	1.119	1.111	1.105	1.101	1.087
0.350	1.173	1.167	1.150	1.137	1.130	1.122	1.119	1.103
0.400	1.202	1.194	1.175	1.155	1.148	1.139	1.136	1.120
0.450	1.229	1.221	1.197	1.173	1.167	1.156	1.151	1.138
0.500	1.257	1.247	1.219	1.192	1.185	1.174	1.167	1.155
0.550	1.291	1.272	1.241	1.211	1.201	1.191	1.183	1.168
0.600	1.324	1.298	1.262	1.227	1.216	1.204	1.199	1.179
0.650	1.358	1.321	1.281	1.243	1.231	1.215	1.210	1.186
0.700	1.383	1.343	1.306	1.258	1.245	1.224	1.216	1.189
0.750	1.405	1.358	1.315	1.270	1.255	1.230	1.213	1.184
0.800	1.406	1.355	1.310	1.263	1.251	1.219	1.199	1.170
0.820	1.401	1.349	1.303	1.257	1.246	1.206	1.192	1.160
0.840	1.391	1.339	1.294	1.250	1.237	1.191	1.186	1.146
0.860	1.374	1.318	1.263	1.224	1.224	1.172	1.177	1.126
0.880	1.345	1.282	1.236	1.202	1.207	1.122	1.164	1.103
0.900	1.303	1.228	1.204	1.180	1.174	1.086	1.115	1.074
0.920	1.234	1.163	1.165	1.086	1.123	1.030	1.061	1.038
0.940	1.138	1.090	1.084	1.031	1.076	0.941	0.998	0.984
0.950	1.086	1.031	1.036	1.003	1.054	0.897	0.957	0.950
0.960	1.027	0.971	0.989	0.955	0.971	0.853	0.915	0.915
0.970	0.968	0.905	0.942	0.888	0.912	0.809	0.874	0.871
0.980	0.895	0.839	0.895	0.820	0.857	0.762	0.813	0.828
0.990	0.805	0.777	0.839	0.770	0.804	0.710	0.743	0.785
1.000	0.730	0.719	0.773	0.725	0.753	0.654	0.702	0.740
1.010	0.675	0.674	0.707	0.675	0.703	0.600	0.661	0.687
1.020	0.619	0.629	0.640	0.607	0.652	0.548	0.619	0.634
1.030	0.553	0.583	0.573	0.539	0.605	0.495	0.572	0.580
1.040	0.486	0.522	0.534	0.492	0.560	0.458	0.522	0.532
1.050	0.440	0.457	0.495	0.459	0.515	0.427	0.471	0.505
1.060	0.397	0.413	0.456	0.426	0.471	0.397	0.431	0.477
1.070	0.354	0.385	0.417	0.392	0.439	0.367	0.400	0.449
1.080	0.317	0.357	0.381	0.359	0.411	0.344	0.370	0.422
1.100	0.268	0.300	0.323	0.311	0.355	0.298	0.319	0.368
1.150	0.159	0.180	0.220	0.223	0.259	0.243	0.261	0.284
1.200	0.101	0.139	0.168	0.182	0.210	0.210	0.227	0.250
1.300	0.075	0.103	0.130	0.149	0.166	0.173	0.190	0.208

4 MV 10 X 10 cm Wedge Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.065	0.088	0.109	0.126	0.146	0.151	0.166	0.184
1.500	0.058	0.077	0.095	0.111	0.129	0.133	0.149	0.162
1.600	0.053	0.068	0.086	0.099	0.115	0.121	0.135	0.145
1.700	0.049	0.062	0.077	0.090	0.104	0.109	0.121	0.129
1.800	0.046	0.056	0.070	0.081	0.092	0.099	0.110	0.116
1.900	0.043	0.052	0.064	0.073	0.085	0.090	0.100	
2.000	0.041	0.048	0.058	0.066	0.077			
2.100	0.039	0.044	0.054	0.060				
2.200	0.037	0.041	0.051					
2.300	0.035	0.040	0.047					
2.400	0.033	0.038						
2.500	0.031							
2.600	0.030							
2.700	0.029							
2.800	0.028							
2.900	0.027							
3.000	0.025							

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (80.0 + depth) / 80.0

4 MV 10 X 10 cm Wedge Field

SSD = 80.0
Field size definition distance = 80.0
Profiles right of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.983	0.981	0.984	0.985	0.985	0.984	0.983	0.985
0.100	0.968	0.967	0.970	0.970	0.971	0.968	0.965	0.970
0.150	0.955	0.954	0.957	0.956	0.956	0.953	0.948	0.955
0.200	0.944	0.942	0.945	0.944	0.941	0.942	0.935	0.941
0.250	0.933	0.932	0.934	0.933	0.932	0.931	0.925	0.931
0.300	0.925	0.922	0.924	0.922	0.922	0.919	0.914	0.921
0.350	0.917	0.913	0.915	0.911	0.913	0.909	0.904	0.911
0.400	0.910	0.904	0.906	0.902	0.904	0.900	0.894	0.901
0.450	0.903	0.898	0.896	0.893	0.893	0.890	0.885	0.890
0.500	0.896	0.892	0.886	0.884	0.883	0.881	0.875	0.880
0.550	0.888	0.884	0.876	0.874	0.872	0.870	0.866	0.869
0.600	0.880	0.873	0.864	0.863	0.858	0.860	0.854	0.857
0.650	0.871	0.861	0.852	0.850	0.844	0.848	0.839	0.843
0.700	0.860	0.846	0.840	0.836	0.829	0.835	0.819	0.827
0.750	0.845	0.829	0.828	0.821	0.810	0.814	0.796	0.811
0.800	0.826	0.806	0.805	0.794	0.785	0.789	0.771	0.795
0.820	0.817	0.796	0.795	0.782	0.770	0.780	0.760	0.788
0.840	0.796	0.786	0.785	0.768	0.756	0.770	0.749	0.775
0.860	0.771	0.776	0.774	0.754	0.742	0.755	0.739	0.761
0.880	0.749	0.761	0.749	0.734	0.725	0.740	0.728	0.746
0.900	0.719	0.743	0.724	0.709	0.701	0.716	0.717	0.724
0.920	0.689	0.688	0.688	0.676	0.671	0.692	0.687	0.702
0.940	0.646	0.642	0.634	0.640	0.642	0.664	0.659	0.673
0.950	0.603	0.617	0.606	0.621	0.627	0.646	0.645	0.653
0.960	0.562	0.593	0.578	0.599	0.592	0.628	0.618	0.633
0.970	0.528	0.568	0.548	0.576	0.560	0.603	0.587	0.610
0.980	0.494	0.543	0.514	0.552	0.538	0.573	0.556	0.584
0.990	0.453	0.509	0.480	0.516	0.506	0.544	0.521	0.559
1.000	0.389	0.466	0.445	0.482	0.465	0.525	0.485	0.533
1.010	0.350	0.423	0.409	0.452	0.425	0.498	0.448	0.508
1.020	0.325	0.382	0.373	0.422	0.397	0.459	0.422	0.483
1.030	0.300	0.353	0.336	0.392	0.370	0.420	0.400	0.458
1.040	0.275	0.325	0.314	0.362	0.342	0.390	0.379	0.433
1.050	0.241	0.297	0.295	0.327	0.308	0.361	0.357	0.399
1.060	0.208	0.268	0.276	0.294	0.276	0.331	0.334	0.369
1.070	0.183	0.239	0.257	0.270	0.261	0.312	0.308	0.345
1.080	0.167	0.211	0.239	0.248	0.246	0.294	0.283	0.320
1.100	0.138	0.182	0.205	0.226	0.221	0.260	0.253	0.300
1.150	0.101	0.121	0.149	0.167	0.171	0.195	0.207	0.242
1.200	0.069	0.094	0.119	0.135	0.145	0.165	0.176	0.211
1.300	0.049	0.068	0.096	0.113	0.125	0.141	0.152	0.176

4 MV 10 X 10 cm Wedge Field (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.044	0.059	0.083	0.097	0.110	0.122	0.135	0.158
1.500	0.040	0.054	0.073	0.085	0.098	0.109	0.120	0.143
1.600	0.039	0.048	0.064	0.081	0.088	0.098	0.111	0.134
1.700	0.038	0.046	0.058	0.078	0.081	0.088	0.105	0.123
1.800	0.037	0.044	0.054	0.073	0.073	0.077		
1.900	0.035	0.042	0.051	0.065	0.066			
2.000	0.035	0.040	0.049					
2.100	0.034	0.038						
2.200	0.033	0.038						
2.300	0.032	0.037						
2.400	0.032							
2.500	0.032							
2.600	0.031							
2.700								
2.800								
2.900								
3.000								

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (80.0 + depth) / 80.0

4 MV 8 X 8 cm Field at 65 cm SSD

SSD = 65.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.001	1.001	1.003	0.998	1.002	0.999	0.999	1.000
0.100	1.003	1.002	1.006	0.999	1.003	0.999	0.999	1.003
0.150	1.007	1.005	1.007	1.002	1.003	1.001	1.001	1.005
0.200	1.012	1.008	1.011	1.005	1.004	1.004	1.002	1.007
0.250	1.017	1.012	1.015	1.008	1.006	1.007	1.004	1.009
0.300	1.024	1.017	1.017	1.011	1.007	1.009	1.005	1.009
0.350	1.030	1.020	1.019	1.013	1.009	1.011	1.006	1.008
0.400	1.037	1.024	1.022	1.015	1.009	1.012	1.007	1.007
0.450	1.043	1.029	1.025	1.015	1.009	1.012	1.007	1.004
0.500	1.049	1.033	1.028	1.016	1.008	1.011	1.004	1.002
0.550	1.054	1.034	1.028	1.015	1.006	1.009	1.000	0.999
0.600	1.058	1.034	1.027	1.013	1.004	1.005	0.995	0.989
0.650	1.057	1.032	1.023	1.010	1.000	0.998	0.988	0.979
0.700	1.055	1.028	1.017	1.001	0.993	0.987	0.978	0.968
0.750	1.047	1.017	1.005	0.982	0.980	0.973	0.964	0.952
0.800	1.024	0.997	0.980	0.958	0.960	0.951	0.939	0.934
0.820	1.006	0.969	0.963	0.946	0.950	0.938	0.925	0.922
0.840	0.988	0.948	0.944	0.924	0.934	0.919	0.908	0.909
0.860	0.964	0.921	0.919	0.898	0.906	0.888	0.890	0.890
0.880	0.934	0.867	0.885	0.868	0.881	0.846	0.871	0.868
0.900	0.874	0.837	0.846	0.835	0.854	0.797	0.840	0.841
0.920	0.809	0.807	0.803	0.792	0.819	0.742	0.799	0.802
0.940	0.743	0.733	0.729	0.725	0.727	0.701	0.742	0.761
0.950	0.710	0.698	0.701	0.686	0.688	0.680	0.693	0.743
0.960	0.677	0.671	0.673	0.647	0.669	0.659	0.668	0.706
0.970	0.644	0.643	0.638	0.608	0.651	0.622	0.627	0.663
0.980	0.610	0.616	0.594	0.568	0.622	0.584	0.586	0.624
0.990	0.561	0.545	0.551	0.530	0.569	0.546	0.547	0.585
1.000	0.500	0.481	0.508	0.493	0.517	0.507	0.507	0.545
1.010	0.443	0.451	0.464	0.456	0.464	0.465	0.468	0.500
1.020	0.389	0.421	0.419	0.416	0.425	0.424	0.435	0.455
1.030	0.334	0.391	0.375	0.376	0.389	0.382	0.404	0.407
1.040	0.299	0.362	0.338	0.335	0.354	0.340	0.372	0.378
1.050	0.270	0.332	0.312	0.307	0.318	0.319	0.343	0.358
1.060	0.241	0.303	0.286	0.287	0.288	0.300	0.319	0.339
1.070	0.212	0.274	0.260	0.266	0.271	0.281	0.296	0.319
1.080	0.183	0.245	0.234	0.246	0.254	0.262	0.272	0.300
1.100	0.145	0.188	0.187	0.205	0.221	0.224	0.244	0.279
1.150	0.089	0.122	0.131	0.157	0.168	0.182	0.199	0.225
1.200	0.054	0.088	0.107	0.129	0.141	0.155	0.170	0.189
1.300	0.036	0.064	0.081	0.104	0.116	0.129	0.143	0.171

4 MV 8 X 8 cm Field at 65 cm SSD (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.029	0.053	0.069	0.089	0.100	0.111	0.127	0.150
1.500	0.026	0.045	0.059	0.078	0.088	0.098	0.113	0.136
1.600	0.023	0.039	0.052	0.069	0.076	0.087	0.099	0.123
1.700	0.020	0.034	0.045	0.062	0.069	0.077	0.089	0.110
1.800	0.018	0.030	0.040	0.055	0.062	0.069	0.080	0.097
1.900	0.016	0.027	0.035	0.049	0.056	0.061	0.070	
2.000	0.014	0.025	0.030	0.044	0.050	0.054		
2.100	0.012	0.024	0.027	0.040	0.045			
2.200	0.010	0.022	0.024	0.036				
2.300	0.009	0.020	0.021	0.032				
2.400	0.007	0.018						
2.500	0.006	0.016						

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (65.0 + depth) / 80.0

4 MV 12 X 12 cm Field at 65 cm SSD

SSD = 65.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.005	1.006	1.003	1.003	1.002	1.002	1.003	1.002
0.100	1.012	1.012	1.009	1.007	1.004	1.004	1.005	1.005
0.150	1.019	1.018	1.015	1.010	1.006	1.007	1.010	1.007
0.200	1.026	1.025	1.021	1.013	1.008	1.010	1.013	1.009
0.250	1.033	1.032	1.026	1.016	1.013	1.013	1.016	1.010
0.300	1.041	1.039	1.031	1.022	1.018	1.016	1.018	1.011
0.350	1.049	1.047	1.038	1.028	1.022	1.018	1.018	1.011
0.400	1.058	1.055	1.043	1.031	1.025	1.019	1.017	1.008
0.450	1.067	1.062	1.045	1.033	1.027	1.016	1.014	1.006
0.500	1.074	1.066	1.046	1.033	1.026	1.011	1.011	0.999
0.550	1.079	1.066	1.046	1.031	1.023	1.007	1.001	0.992
0.600	1.084	1.065	1.044	1.025	1.017	1.002	0.988	0.985
0.650	1.085	1.063	1.039	1.019	1.008	0.992	0.978	0.971
0.700	1.082	1.059	1.031	1.010	0.998	0.983	0.966	0.957
0.750	1.077	1.050	1.019	0.998	0.987	0.969	0.949	0.943
0.800	1.072	1.037	1.001	0.980	0.972	0.953	0.923	0.922
0.820	1.067	1.030	0.993	0.973	0.962	0.938	0.913	0.912
0.840	1.060	1.020	0.985	0.966	0.951	0.928	0.901	0.901
0.860	1.048	1.003	0.973	0.952	0.940	0.913	0.885	0.888
0.880	1.026	0.978	0.958	0.934	0.924	0.888	0.860	0.867
0.900	0.990	0.950	0.924	0.910	0.890	0.857	0.834	0.847
0.920	0.948	0.920	0.862	0.879	0.846	0.818	0.783	0.808
0.940	0.880	0.861	0.793	0.829	0.805	0.752	0.733	0.757
0.950	0.828	0.821	0.761	0.775	0.787	0.719	0.708	0.730
0.960	0.771	0.780	0.728	0.717	0.744	0.669	0.644	0.701
0.970	0.710	0.739	0.694	0.671	0.691	0.592	0.602	0.655
0.980	0.642	0.619	0.661	0.626	0.634	0.550	0.560	0.609
0.990	0.563	0.576	0.611	0.580	0.576	0.511	0.514	0.563
1.000	0.500	0.533	0.545	0.531	0.517	0.454	0.468	0.517
1.010	0.445	0.477	0.478	0.467	0.456	0.396	0.421	0.471
1.020	0.400	0.387	0.410	0.379	0.396	0.351	0.375	0.426
1.030	0.355	0.337	0.360	0.343	0.336	0.327	0.343	0.392
1.040	0.313	0.300	0.317	0.307	0.294	0.301	0.312	0.358
1.050	0.271	0.263	0.275	0.271	0.252	0.270	0.282	0.332
1.060	0.228	0.232	0.247	0.241	0.222	0.251	0.265	0.313
1.070	0.203	0.207	0.220	0.222	0.212	0.231	0.249	0.294
1.080	0.177	0.183	0.194	0.201	0.202	0.209	0.234	0.279
1.100	0.126	0.134	0.148	0.167	0.181	0.191	0.208	0.256
1.150	0.063	0.086	0.115	0.131	0.142	0.160	0.173	0.223
1.200	0.047	0.072	0.096	0.114	0.125	0.141	0.155	0.197
1.300	0.035	0.056	0.075	0.094	0.105	0.118	0.129	0.172

4 MV 12 X 12 cm Field at 65 cm SSD (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.029	0.045	0.064	0.077	0.087	0.100	0.112	0.149
1.500	0.025	0.037	0.051	0.064	0.074	0.086	0.097	0.129
1.600	0.022	0.033	0.044	0.056	0.063	0.074	0.084	0.113
1.700	0.020	0.028	0.039	0.049	0.052	0.065	0.073	
1.800	0.018	0.023	0.034	0.042	0.045	0.055		
1.900	0.015	0.021	0.030	0.036	0.043			
2.000	0.013	0.019	0.026	0.032				
2.100	0.012	0.017	0.023					
2.200	0.011	0.015	0.019					
2.300	0.009							
2.400	0.008							

x = Off-axis distance
h = Field half-width
x = 7.4 * x/h (65.0 + depth) / 80.0

4 MV 32 X 32 cm Field Diagonal

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.020	1.013	1.010	1.008	1.014	1.009	1.011	1.005
0.100	1.046	1.035	1.027	1.029	1.029	1.023	1.023	1.023
0.150	1.074	1.059	1.048	1.040	1.043	1.036	1.034	1.030
0.200	1.090	1.074	1.064	1.053	1.049	1.042	1.036	1.028
0.250	1.098	1.081	1.068	1.053	1.050	1.037	1.033	1.019
0.300	1.105	1.086	1.068	1.052	1.044	1.033	1.024	1.007
0.350	1.110	1.086	1.066	1.051	1.037	1.024	1.006	0.988
0.400	1.112	1.089	1.063	1.048	1.030	1.010	0.993	0.969
0.450	1.113	1.088	1.060	1.039	1.021	0.991	0.973	0.949
0.500	1.119	1.087	1.056	1.030	1.008	0.973	0.949	0.927
0.550	1.125	1.089	1.053	1.018	0.987	0.954	0.922	0.898
0.600	1.131	1.084	1.040	1.000	0.963	0.928	0.890	0.865
0.650	1.108	1.055	1.001	0.964	0.923	0.884	0.847	0.817
0.700	1.052	1.007	0.954	0.907	0.871	0.831	0.796	0.757
0.750	1.000	0.950	0.904	0.853	0.811	0.772	0.740	0.698
0.800	0.947	0.892	0.842	0.794	0.745	0.706	0.677	0.637
0.820	0.925	0.870	0.821	0.770	0.719	0.679	0.648	0.609
0.840	0.904	0.847	0.792	0.743	0.694	0.654	0.618	0.581
0.860	0.882	0.823	0.764	0.718	0.669	0.630	0.591	0.559
0.880	0.861	0.799	0.741	0.691	0.643	0.606	0.566	
0.900	0.840	0.775	0.714	0.664	0.613	0.584	0.537	
0.920	0.815	0.749	0.686	0.637	0.590	0.547	0.517	
0.940	0.789	0.718	0.655	0.609	0.554	0.510	0.495	
0.950	0.771	0.700	0.632	0.595	0.534	0.493		
0.960	0.728	0.652	0.593	0.561	0.506	0.468		
0.970	0.654	0.576	0.542	0.500	0.451	0.423		
0.980	0.550	0.491	0.459	0.441	0.386	0.377		
0.990	0.456	0.377	0.365	0.364	0.310			
1.000	0.299	0.260	0.269	0.265	0.249			
1.010	0.172	0.171	0.183	0.187	0.184			
1.020	0.108	0.124	0.128	0.144	0.143			
1.030	0.081	0.098	0.103	0.119	0.132			
1.040	0.066	0.082	0.090	0.103				
1.050	0.055	0.074	0.081	0.093				
1.060	0.051	0.067	0.076	0.087				
1.070	0.048	0.063	0.072	0.087				
1.080	0.046	0.059	0.067					
1.100	0.040	0.053	0.061					
1.150	0.035	0.044						
1.200	0.030							

x = Off-axis distance
h = Field half-width
x = 22.6 * x/h (80.0 + depth) / 80.0

4 MV 32 X 32 cm Field Lower Jaws

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.014	1.014	1.010	1.011	1.003	1.004	1.010	1.005
0.100	1.034	1.032	1.028	1.023	1.017	1.011	1.020	1.015
0.150	1.051	1.048	1.042	1.034	1.025	1.021	1.026	1.018
0.200	1.074	1.060	1.052	1.042	1.030	1.029	1.031	1.020
0.250	1.085	1.071	1.058	1.048	1.035	1.031	1.031	1.021
0.300	1.093	1.079	1.066	1.052	1.034	1.030	1.029	1.018
0.350	1.098	1.082	1.068	1.053	1.031	1.024	1.024	1.009
0.400	1.099	1.085	1.068	1.050	1.027	1.015	1.018	0.999
0.450	1.102	1.082	1.067	1.045	1.019	1.007	1.009	0.988
0.500	1.101	1.082	1.063	1.039	1.011	1.000	0.996	0.975
0.550	1.101	1.083	1.060	1.035	1.003	0.991	0.984	0.960
0.600	1.104	1.083	1.055	1.027	0.991	0.977	0.968	0.945
0.650	1.107	1.082	1.049	1.017	0.977	0.960	0.949	0.926
0.700	1.112	1.082	1.042	1.004	0.962	0.941	0.929	0.901
0.750	1.116	1.081	1.034	0.990	0.945	0.919	0.902	0.875
0.800	1.117	1.072	1.020	0.973	0.927	0.893	0.871	0.848
0.820	1.113	1.065	1.012	0.961	0.917	0.881	0.857	0.835
0.840	1.106	1.055	1.001	0.948	0.907	0.869	0.843	0.820
0.860	1.098	1.044	0.985	0.934	0.894	0.856	0.828	0.804
0.880	1.089	1.029	0.968	0.919	0.879	0.841	0.807	0.784
0.900	1.072	1.012	0.950	0.900	0.864	0.825	0.786	0.764
0.920	1.054	0.991	0.929	0.877	0.846	0.808	0.760	0.738
0.940	1.026	0.956	0.897	0.848	0.828	0.789	0.730	0.711
0.950	0.998	0.926	0.877	0.824	0.816	0.780	0.712	0.697
0.960	0.958	0.892	0.851	0.796	0.804	0.766	0.694	0.680
0.970	0.907	0.841	0.792	0.764	0.792	0.752	0.655	0.647
0.980	0.746	0.719	0.663	0.703	0.775	0.738	0.599	0.602
0.990	0.617	0.623	0.576	0.591	0.756	0.717	0.529	0.527
1.000	0.500	0.470	0.494	0.455	0.734	0.696	0.453	0.447
1.010	0.324	0.326	0.371	0.368	0.708	0.666	0.381	0.372
1.020	0.227	0.255	0.295	0.284	0.669	0.628	0.296	0.314
1.030	0.162	0.197	0.228	0.242	0.604	0.557	0.265	0.277
1.040	0.125	0.161	0.189	0.212	0.528	0.453	0.246	0.261
1.050	0.104	0.144	0.169	0.197	0.401	0.381	0.234	0.251
1.060	0.091	0.131	0.161	0.187	0.329	0.323	0.226	0.241
1.070	0.083	0.123	0.153	0.177	0.280	0.272	0.217	0.233
1.080	0.078	0.116	0.146	0.169	0.249	0.252	0.211	0.224
1.100	0.072	0.105	0.133	0.156	0.216	0.223	0.198	0.210
1.150	0.059	0.084	0.110	0.129	0.178	0.186	0.170	0.179
1.200	0.050	0.073	0.093	0.109	0.153	0.161	0.146	0.158
1.300	0.041	0.055	0.068	0.082	0.116	0.124	0.111	

4 MV 32 X 32 cm Field Lower Jaws (continued)

	Depth(cm)							
x/h	1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
1.400	0.032	0.042	0.054	0.058	0.090			
1.500	0.028	0.033	0.042					
1.600	0.025	0.028						
1.700	0.021							

x = Off-axis distance
h = Field half-width
x = 16.0 * x/h (80.0 + depth) / 80.0

4 MV TEST CASES

Case	Worksheet	OCR Table
5 x 5 cm field	65	78
10 x 10 cm field	66	79
25 x 25 cm field	67	80
5 x 25 cm field	68	81
25 x 5 cm field	69	82
70 cm SSD	70	83
Wedge field	71	84
Central block	72	86
Off-center plane	73	87
Irregular field	74	88
Lung inhomogeneity	75	89
Bone inhomogeneity	76	90
Oblique incidence	77	91

4 MV 5 X 5 cm Test Case

Measured values are quoted below for locations within the central plane of a 5 X 5 cm field, 80 cm SSD. Measured dose is relative to the central axis of the 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.954	0.854	0.751	0.533	0.371	0.261	0.184	0.094
Computed Dose								
Computed - Measured								

Off Axis 1 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.961	0.860	0.753	0.530	0.370	0.260	0.184	0.094
Computed Dose								
Computed - Measured								

Off Axis 5 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.015	0.019	0.022	0.030	0.025	0.022	0.019	0.013
Computed Dose								
Computed - Measured								

Radiological Field Width (cm)

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width	5.06	5.16	5.31	5.57	5.94	6.25	6.56	7.17
Computed Width								
Computed - Measured								

4 MV 10 X 10 cm Test Case

Measured values are quoted below for locations within the central plane of a 10 X 10 cm field, 80 cm SSD. Measured dose is relative to the central axis point at 1 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.000	0.911	0.819	0.604	0.436	0.315	0.227	0.119
Computed Dose								
Computed - Measured								

Off Axis 3 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.057	0.954	0.849	0.620	0.443	0.317	0.228	0.119
Computed Dose								
Computed - Measured								

Off Axis 9 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.024	0.027	0.030	0.037	0.039	0.037	0.032	0.023
Computed Dose								
Computed - Measured								

Radiological Field Width (cm)

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width	10.10	10.21	10.58	11.24	11.87	12.45	13.12	14.6
Computed Width								
Computed - Measured								

4 MV 25 X 25 cm Field Test Case

Measured values are quoted below for locations within the central plane of a 25 X 25 cm field, 80 cm SSD. Measured dose is relative to the central axis of the 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.053	0.969	0.885	0.688	0.526	0.393	0.295	0.162
Computed Dose								
Computed - Measured								

Off Axis 9 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.150	1.046	0.943	0.713	0.531	0.392	0.290	0.159
Computed Dose								
Computed - Measured								

Off Axis 19 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.032	0.036	0.041	0.051	0.056	0.056	0.052	0.042
Computed Dose								
Computed - Measured								

Radiological Field Width (cm)

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width	25.31	25.89	26.47	27.91	29.71	31.23	32.87	35.97
Computed Width								
Computed - Measured								

4 MV 5 X 25 cm Field Test Case

Measurement results are quoted below within the central plane of a 5 X 25 cm field, 80 cm SSD. Measured dose is relative to the central axis of the 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.972	0.879	0.781	0.571	0.409	0.294	0.211	0.110
Computed Dose								
Computed - measured								

Off Axis 1 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.979	0.884	0.783	0.571	0.409	0.294	0.211	0.110
Computed Dose								
Computed - Measured								

Off Axis 5 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.030	0.036	0.042	0.052	0.051	0.047	0.040	0.027
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width	5.06	5.20	5.37	5.60	6.0	6.32	6.70	7.42
Computed Width								
Computed - measured								

4 MV 25 X 5 cm Field Test Case

Measured values are quoted below for locations within the central plane of a 25 X 5 cm field, 80 cm SSD. Measured dose is relative to the central axis of the 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.992	0.895	0.798	0.582	0.418	0.299	0.216	0.113
Computed Dose								
Computed - Measured								

Off Axis 9 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.094	0.981	0.866	0.619	0.441	0.310	0.222	0.114
Computed Dose								
Computed - Measured								

Off Axis 19 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.013	0.014	0.016	0.016	0.021	0.021	0.021	0.018
Computed Dose								
Computed - Measured								

Radiological Field Width (cm)

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width	25.56	26.13	26.72	28.16	29.95	31.49	33.17	36.21
Computed Width								
Computed - Measured								

4 MV 10 X 10 cm Field 70cm SSD Test Case

Measured dose is given below for locations within a 10 X 10 cm field simulating an isocentric treatment. Field size is designated at the isocenter (80cm SAD) located at a depth of 10cm. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 80cm SSD, 1cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.304	1.175	1.044	0.757	0.537	0.380	0.271	0.139
Computed Dose								
Computed - Measured								

Off-Axis 2.5cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.376	1.231	1.086	0.776	0.544	0.386	0.275	0.140
Computed Dose								
Computed - Measured								

Off-Axis 7cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.039	0.045	0.052	0.063	0.064	0.059	0.054	0.052
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	8.81	9.09	9.34	10.05	10.70	11.42	12.06	13.25
Computed Width								
Computed - Measured								

4 MV 9 X 9 cm Field Wedge Test Case

Radiation dose was measured at locations tabulated below for a 9 X 9 cm field, 80cm SSD, containing a 45-degree wedge. The wedge is oriented to have the thin end of the wedge toward the left-hand side of the radiation field. Measured dose is relative to the central axis of the open 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis

Depth (cm)	1.0	9.0	17.0	25.0	35.0			
Measured Dose	0.571	0.365	0.219	0.132	0.071			
Computed Dose								
Computed - Measured								

Off-Axis 2.5 cm Left

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.710	0.638	0.565	0.405	0.287	0.206	0.147	0.077
Computed Dose								
Computed - Measured								

Off-Axis 2.5 Right

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.519	0.468	0.419	0.311	0.226	0.165	0.120	0.064
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured width (cm)	9.26	9.53	9.68	10.28	10.86	11.48	12.21	13.36
Computed Width (cm)								
Computed - Measured								

4 MV Central Block Test Case

Measurement results are quoted below for a 16 X 16 cm field, 80 cm SSD, modified by including an untapered alloy shielding block 1 cm wide, 7 cm thick and 4 cm long. The block is mounted on a standard tray and centered on the beam axis. The long dimension (4 cm) is orthogonal to the measurement plane. Measured dose is relative to dose on the central axis of the open 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis (under the block)

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.117	0.140	0.159	0.168	0.150	0.125	0.100	0.059
Computed Dose								
Computed - Measured								

Off Axis 4 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.071	0.975	0.876	0.654	0.479	0.348	0.254	0.134
Computed Dose								
Computed - Measured								

4 MV Off-Center Plane Test Case

Measurements were made for locations tabulated below in a plane separated by 4 cm from the central plane of a 10 X 10 cm field, SSD 80 cm. "Plane Center-Line" in this work sheet refers to the center of the off-axis measurement plane. Measured dose is relative to the central axis of the 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Plane Center-Line

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.040	0.942	0.836	0.610	0.436	0.313	0.225	0.117
Computed Dose								
Computed - Measured								

Off Center 3 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.054	0.949	0.841	0.604	0.432	0.311	0.222	0.117
Computed Dose								
Computed - Measured								

Off Center 8 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.025	0.028	0.033	0.041	0.043	0.041	0.037	0.032
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width	10.07	10.39	10.55	11.27	11.91	12.55	13.26	14.62
Computed Width								
Computed - Measured								

4 MV Irregular Field Test Case

Measurement results are tabulated below for a field made "L-shaped" by removing a 12 X 12 cm portion from one corner of a 16 x 16 cm open field, 80 cm SSD by means of a tapered alloy block. The measurement plane is orthogonal to one segment of the "L" and through the blocked beam central axis. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis (under the block)

Depth (cm)	1.0	5.0	10.0	15.0	20.0	25.0	35.0	
Measured Dose	0.048	0.054	0.057	0.054	0.046	0.038	0.023	
Computed Dose								
Computed - Measured								

6 cm Off Axis (center of open region)

Depth (cm)	1.0	5.0	10.0	15.0	20.0	25.0	35.0	
Measured Dose	1.068	0.842	0.602	0.424	0.302	0.215	0.108	
Computed Dose								
Computed - Measured								

4 MV Lung Inhomogeneity Test Case

Measurement results are tabulated below for a lung-simulating cylinder, 6 cm in diameter and 12 cm long suspended in a water phantom. Radiation dose was measured on the central plane of a 16 X 16 cm field, 80 cm SSD, at points exterior to the Inhomogeneity. The object was placed in the phantom with its axis parallel to the surface and at 8 cm depth. The cylinder is muscle-equivalent in composition and has a density of 0.29 g / cc. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis

Depth (cm)	11.0	15.0	20.0	25.0	35.0			
Measured Dose	0.699	0.564	0.418	0.308	0.163			
Computed Dose								
Computed - Measured								

Off Axis 2 cm

Depth (cm)	11.0	15.0	20.0	25.0	35.0			
Measured Dose	0.703	0.563	0.418	0.308	0.159			
Computed Dose								
Computed - Measured								

Off Axis 5 cm

Depth (cm)	11.0	15.0	20.0	25.0	35.0			
Measured Dose	0.643	0.501	0.368	0.272	0.143			
Computed Dose								
Computed - Measured								

4 MV Bone Inhomogeneity Test Case

Measurement results are tabulated below for a bone-simulating cylinder, 2 cm in diameter and 12 cm long suspended in a water phantom. Radiation dose was measured on the central plane of a 16 X 16 cm field, 80 cm SSD, at points exterior to the Inhomogeneity. The object was placed in the phantom with its axis parallel to the surface and at 6 cm depth. The cylinder is bone-equivalent in composition and has a density of 1.40 g / cc. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis

Depth (cm)	7.5	8.0	10.0	15.0	20.0	25.0	35.0	
Measured Dose	0.735	0.717	0.638	0.475	0.354	0.260	0.139	
Computed Dose								
Computed - Measured								

Off Axis 4 cm

Depth (cm)	7.5	8.0	10.0	15.0	20.0	25.0	35.0	
Measured Dose	0.797	0.776	0.689	0.506	0.373	0.271	0.149	
Computed Dose								
Computed - Measured								

4 MV Oblique Incidence Test Case

Measured values are tabulated below for locations within a 10 X 10 cm field, 80 cm SSD, incident on the water phantom at a 45 degree angle. Field size is designated perpendicular to the beam central axis. Off-axis distances given below are PARALLEL TO THE SURFACE rather than perpendicular to the beam central axis. Scan depth, given below, is PERPENDICULAR TO THE SURFACE rather than parallel to the beam central axis. See the diagram in the user instruction section of the test package for clarification. Measured Dose is relative to the central axis of the normally incident 10 X 10 cm reference field, 80 cm SSD, 1 cm depth.

Central Axis

Scan Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	
Measured Dose	0.995	0.860	0.724	0.464	0.294	0.187	---	
Computed Dose								
Computed - Measured								

Off Axis 3 cm to LEFT

Scan Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	
Measured Dose	0.984	0.843	0.713	0.449	0.279	0.171	---	
Computed Dose								
Computed - Measured								

Off Axis 3 cm to RIGHT

Scan Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	
Measured Dose	1.086	0.928	0.778	0.496	0.314	0.199	---	
Computed Dose								
Computed - measured								

4 MV 5 X 5 cm Field Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

	Depth(cm)								
x/h	0.3	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.930	1.000	0.899	0.790	0.559	0.388	0.272	0.193	0.098
0.050	0.931	1.002	0.900	0.795	0.558	0.389	0.273	0.193	0.098
0.100	0.935	1.004	0.903	0.797	0.558	0.389	0.273	0.194	0.099
0.150	0.939	1.008	0.903	0.798	0.559	0.389	0.274	0.194	0.099
0.200	0.942	1.010	0.903	0.799	0.559	0.389	0.275	0.194	0.099
0.250	0.945	1.012	0.903	0.799	0.560	0.389	0.275	0.194	0.099
0.300	0.946	1.013	0.903	0.798	0.560	0.389	0.274	0.193	0.099
0.350	0.946	1.014	0.903	0.797	0.560	0.388	0.273	0.193	0.098
0.400	0.945	1.015	0.902	0.795	0.559	0.388	0.272	0.192	0.098
0.450	0.943	1.014	0.900	0.792	0.558	0.387	0.271	0.191	0.098
0.500	0.939	1.012	0.897	0.788	0.556	0.385	0.270	0.190	0.097
0.550	0.933	1.009	0.892	0.783	0.551	0.382	0.267	0.189	0.097
0.600	0.923	1.002	0.885	0.773	0.545	0.378	0.264	0.187	0.096
0.650	0.910	0.987	0.874	0.757	0.535	0.372	0.262	0.184	0.094
0.700	0.887	0.958	0.861	0.740	0.522	0.363	0.252	0.180	0.092
0.750	0.828	0.928	0.821	0.723	0.502	0.349	0.241	0.173	0.089
0.800	0.762	0.884	0.767	0.685	0.477	0.335	0.228	0.167	0.084
0.820	0.735	0.872	0.731	0.663	0.468	0.328	0.223	0.164	0.081
0.840	0.708	0.861	0.716	0.640	0.456	0.321	0.218	0.159	0.078
0.860	0.678	0.797	0.700	0.617	0.442	0.307	0.212	0.151	0.075
0.880	0.645	0.748	0.678	0.588	0.427	0.292	0.203	0.143	0.072
0.900	0.612	0.705	0.653	0.558	0.408	0.274	0.193	0.136	0.069
0.920	0.579	0.673	0.614	0.528	0.381	0.256	0.183	0.128	0.066
0.940	0.552	0.640	0.576	0.499	0.344	0.245	0.172	0.120	0.062
0.950	0.541	0.622	0.559	0.485	0.331	0.240	0.166	0.116	0.060
0.960	0.531	0.601	0.543	0.470	0.318	0.234	0.161	0.113	0.057
0.970	0.521	0.581	0.523	0.452	0.304	0.227	0.155	0.109	0.055
0.980	0.483	0.560	0.494	0.434	0.292	0.217	0.149	0.105	0.053
0.990	0.444	0.533	0.465	0.416	0.281	0.208	0.143	0.101	0.051
1.000	0.430	0.501	0.436	0.398	0.270	0.196	0.137	0.097	0.049
1.010	0.417	0.468	0.408	0.380	0.259	0.184	0.131	0.093	0.047
1.020	0.404	0.445	0.379	0.362	0.248	0.174	0.125	0.088	0.045
1.030	0.391	0.424	0.357	0.345	0.238	0.167	0.120	0.084	0.044
1.040	0.377	0.404	0.343	0.327	0.228	0.159	0.114	0.080	0.042
1.050	0.364	0.384	0.328	0.307	0.218	0.151	0.108	0.077	0.041
1.060	0.344	0.364	0.314	0.283	0.208	0.143	0.102	0.073	0.039
1.070	0.323	0.338	0.300	0.259	0.197	0.134	0.097	0.069	0.037
1.080	0.303	0.309	0.285	0.236	0.187	0.125	0.091	0.066	0.034
1.100	0.265	0.259	0.256	0.212	0.166	0.101	0.082	0.060	0.031
1.150	0.195	0.204	0.187	0.165	0.127	0.074	0.067	0.047	0.025
1.200	0.143	0.150	0.135	0.118	0.100	0.064	0.053	0.038	0.021
1.300	0.075	0.068	0.072	0.072	0.063	0.046	0.037	0.028	0.016

x = Off-axis distance
h = Field half-width
x = 2.5 * x/h (80.0 + depth) / 80.0

4 MV 10 X 10 cm Field Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 1.0	3.0	5.0	10.0	15.0	20.0	25.0
0.000	1.000	0.910	0.819	0.603	0.437	0.314	0.227
0.050	1.001	0.910	0.821	0.603	0.437	0.314	0.228
0.100	1.003	0.912	0.824	0.603	0.437	0.315	0.228
0.150	1.010	0.915	0.827	0.603	0.438	0.316	0.228
0.200	1.014	0.921	0.831	0.605	0.439	0.317	0.228
0.250	1.019	0.926	0.835	0.607	0.440	0.318	0.228
0.300	1.025	0.932	0.839	0.609	0.441	0.318	0.229
0.350	1.031	0.937	0.843	0.612	0.442	0.318	0.229
0.400	1.037	0.942	0.847	0.615	0.442	0.317	0.229
0.450	1.043	0.947	0.850	0.616	0.443	0.316	0.228
0.500	1.049	0.951	0.852	0.616	0.443	0.316	0.228
0.550	1.053	0.954	0.853	0.615	0.442	0.316	0.227
0.600	1.057	0.956	0.853	0.613	0.441	0.314	0.226
0.650	1.060	0.955	0.851	0.612	0.439	0.312	0.224
0.700	1.058	0.953	0.846	0.608	0.434	0.309	0.221
0.750	1.053	0.943	0.836	0.600	0.428	0.306	0.218
0.800	1.037	0.919	0.821	0.589	0.419	0.301	0.213
0.820	1.026	0.904	0.808	0.580	0.414	0.296	0.209
0.840	1.008	0.882	0.789	0.566	0.405	0.291	0.205
0.860	0.984	0.856	0.775	0.552	0.396	0.283	0.200
0.880	0.953	0.817	0.755	0.528	0.384	0.275	0.194
0.900	0.914	0.764	0.729	0.510	0.365	0.263	0.187
0.920	0.871	0.704	0.689	0.458	0.344	0.247	0.179
0.940	0.830	0.644	0.635	0.427	0.327	0.222	0.164
0.950	0.765	0.603	0.605	0.413	0.309	0.209	0.152
0.960	0.711	0.561	0.575	0.399	0.290	0.197	0.145
0.970	0.661	0.518	0.547	0.384	0.269	0.185	0.139
0.980	0.607	0.480	0.520	0.358	0.251	0.175	0.131
0.990	0.548	0.441	0.492	0.332	0.236	0.165	0.123
1.000	0.500	0.403	0.394	0.304	0.221	0.155	0.115
1.010	0.459	0.371	0.351	0.275	0.203	0.145	0.107
1.020	0.418	0.339	0.311	0.246	0.181	0.133	0.100
1.030	0.376	0.307	0.290	0.220	0.162	0.122	0.094
1.040	0.330	0.275	0.270	0.206	0.151	0.117	0.087
1.050	0.284	0.247	0.249	0.193	0.140	0.111	0.081
1.060	0.238	0.219	0.227	0.179	0.129	0.106	0.076
1.070	0.220	0.191	0.202	0.166	0.119	0.098	0.070
1.080	0.202	0.165	0.179	0.151	0.112	0.088	0.065
1.100	0.166	0.140	0.145	0.119	0.097	0.075	0.058
1.150	0.098	0.094	0.097	0.092	0.076	0.061	0.046
1.200	0.066	0.069	0.074	0.074	0.064	0.052	0.040
1.300	0.045	0.047	0.057	0.058	0.050	0.042	0.034

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (80.0 + depth) / 80.0

4 MV 25 X 25 cm Field Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	1.000	0.925	0.841	0.654	0.498	0.373	0.279	0.152
0.050	1.003	0.929	0.845	0.654	0.500	0.374	0.279	0.153
0.100	1.014	0.939	0.856	0.659	0.503	0.376	0.281	0.154
0.150	1.029	0.953	0.869	0.667	0.507	0.380	0.284	0.155
0.200	1.046	0.967	0.882	0.678	0.511	0.384	0.286	0.155
0.250	1.063	0.978	0.892	0.684	0.515	0.387	0.287	0.156
0.300	1.074	0.989	0.899	0.688	0.518	0.389	0.287	0.155
0.350	1.082	0.998	0.903	0.689	0.519	0.388	0.287	0.155
0.400	1.086	1.001	0.905	0.688	0.519	0.386	0.285	0.154
0.450	1.089	1.001	0.905	0.687	0.519	0.384	0.283	0.152
0.500	1.089	1.002	0.905	0.687	0.516	0.381	0.281	0.151
0.550	1.088	1.002	0.905	0.683	0.512	0.377	0.278	0.148
0.600	1.088	1.002	0.903	0.679	0.507	0.372	0.274	0.146
0.650	1.087	1.000	0.900	0.674	0.502	0.368	0.269	0.143
0.700	1.087	0.998	0.898	0.668	0.495	0.362	0.264	0.140
0.750	1.087	0.995	0.893	0.660	0.486	0.355	0.258	0.137
0.800	1.087	0.990	0.886	0.650	0.477	0.348	0.251	0.133
0.820	1.086	0.987	0.882	0.646	0.473	0.345	0.248	0.131
0.840	1.085	0.984	0.878	0.641	0.469	0.340	0.245	0.129
0.860	1.085	0.980	0.874	0.637	0.465	0.335	0.241	0.128
0.880	1.084	0.971	0.867	0.631	0.458	0.330	0.237	0.125
0.900	1.077	0.960	0.857	0.623	0.449	0.324	0.232	0.123
0.920	1.063	0.942	0.834	0.609	0.438	0.316	0.226	0.120
0.940	1.017	0.909	0.799	0.578	0.426	0.306	0.217	0.116
0.950	0.983	0.887	0.776	0.557	0.411	0.299	0.209	0.113
0.960	0.937	0.842	0.741	0.528	0.378	0.288	0.201	0.109
0.970	0.892	0.744	0.589	0.484	0.347	0.274	0.188	0.105
0.980	0.819	0.665	0.543	0.429	0.321	0.247	0.176	0.098
0.990	0.666	0.575	0.497	0.349	0.296	0.218	0.163	0.089
1.000	0.500	0.439	0.335	0.291	0.253	0.185	0.143	0.077
1.010	0.399	0.350	0.286	0.251	0.202	0.158	0.123	0.066
1.020	0.334	0.291	0.237	0.214	0.164	0.140	0.105	0.058
1.030	0.269	0.245	0.204	0.179	0.137	0.124	0.091	0.052
1.040	0.175	0.192	0.171	0.150	0.126	0.111	0.083	0.047
1.050	0.147	0.150	0.145	0.131	0.116	0.102	0.076	0.045
1.060	0.128	0.121	0.124	0.120	0.109	0.093	0.070	0.042
1.070	0.108	0.112	0.110	0.111	0.103	0.086	0.067	0.040
1.080	0.093	0.103	0.104	0.105	0.097	0.082	0.063	0.039
1.100	0.076	0.090	0.093	0.097	0.089	0.076	0.059	0.037
1.150	0.065	0.074	0.077	0.084	0.076	0.066	0.052	0.033
1.200	0.058	0.063	0.068	0.072	0.066	0.058	0.046	0.029
1.300	0.046	0.050	0.054	0.056	0.052	0.047	0.037	0.023

x = Off-axis distance
h = Field half-width
x = 12.5 * x/h (80.0 + depth) / 80.0

4 MV 5 X 25 cm Field Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 1.0	3.0	5.0	10.0	10.0	20.0	25.0	35.0
0.000	1.000	0.908	0.806	0.589	0.589	0.302	0.217	0.114
0.050	0.999	0.907	0.805	0.590	0.590	0.302	0.216	0.114
0.100	0.999	0.909	0.806	0.591	0.591	0.302	0.217	0.114
0.150	1.002	0.911	0.807	0.592	0.592	0.302	0.217	0.114
0.200	1.006	0.913	0.809	0.592	0.592	0.302	0.217	0.114
0.250	1.008	0.914	0.810	0.592	0.592	0.302	0.216	0.114
0.300	1.010	0.916	0.810	0.592	0.592	0.301	0.216	0.114
0.350	1.011	0.917	0.810	0.591	0.591	0.300	0.216	0.114
0.400	1.013	0.918	0.809	0.589	0.589	0.299	0.215	0.114
0.450	1.013	0.919	0.808	0.587	0.587	0.298	0.215	0.113
0.500	1.011	0.917	0.806	0.585	0.585	0.297	0.213	0.112
0.550	1.008	0.912	0.804	0.580	0.580	0.295	0.211	0.111
0.600	1.002	0.903	0.801	0.575	0.575	0.293	0.210	0.109
0.650	0.992	0.890	0.795	0.567	0.567	0.290	0.208	0.107
0.700	0.978	0.874	0.786	0.557	0.557	0.285	0.204	0.105
0.750	0.962	0.855	0.768	0.541	0.541	0.277	0.200	0.103
0.800	0.935	0.826	0.739	0.517	0.517	0.267	0.193	0.099
0.820	0.924	0.813	0.728	0.506	0.506	0.262	0.190	0.098
0.840	0.905	0.799	0.719	0.494	0.494	0.255	0.187	0.096
0.860	0.867	0.784	0.709	0.483	0.483	0.248	0.181	0.093
0.880	0.829	0.770	0.699	0.472	0.472	0.239	0.175	0.089
0.900	0.791	0.750	0.679	0.456	0.456	0.231	0.169	0.086
0.920	0.754	0.722	0.651	0.432	0.432	0.224	0.164	0.082
0.940	0.718	0.684	0.618	0.415	0.415	0.217	0.155	0.077
0.950	0.700	0.660	0.600	0.407	0.407	0.213	0.151	0.075
0.960	0.683	0.632	0.584	0.398	0.398	0.208	0.146	0.072
0.970	0.665	0.604	0.570	0.390	0.390	0.199	0.142	0.070
0.980	0.647	0.574	0.557	0.374	0.374	0.190	0.138	0.067
0.990	0.629	0.549	0.543	0.353	0.353	0.182	0.133	0.065
1.000	0.611	0.533	0.530	0.332	0.332	0.176	0.129	0.062
1.010	0.613	0.516	0.515	0.319	0.319	0.171	0.125	0.060
1.020	0.596	0.500	0.499	0.305	0.305	0.165	0.121	0.058
1.030	0.573	0.483	0.484	0.291	0.291	0.160	0.116	0.056
1.040	0.551	0.465	0.469	0.278	0.278	0.154	0.112	0.054
1.050	0.533	0.448	0.449	0.266	0.266	0.142	0.108	0.052
1.060	0.517	0.430	0.429	0.256	0.256	0.130	0.104	0.050
1.070	0.501	0.401	0.408	0.246	0.246	0.118	0.100	0.048
1.080	0.484	0.364	0.388	0.237	0.237	0.114	0.096	0.046
1.100	0.432	0.328	0.350	0.217	0.217	0.109	0.087	0.044
1.150	0.270	0.260	0.269	0.165	0.165	0.095	0.073	0.039
1.200	0.219	0.206	0.212	0.138	0.138	0.082	0.062	0.035
1.300	0.120	0.107	0.131	0.096	0.096	0.065	0.052	0.029

x = Off-axis distance
h = Field half-width
x = 2.5 * x/h (80.0 + depth) / 80.0

4 MV 25 X 5 cm Field Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

	Depth(cm)								
x/h	0.3	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.975	1.000	0.906	0.806	0.589	0.423	0.301	0.218	0.115
0.050	0.978	1.001	0.908	0.808	0.589	0.424	0.302	0.218	0.115
0.100	0.990	1.011	0.917	0.818	0.592	0.427	0.303	0.219	0.116
0.150	1.002	1.025	0.931	0.830	0.600	0.430	0.306	0.222	0.117
0.200	1.017	1.042	0.945	0.843	0.609	0.433	0.309	0.223	0.117
0.250	1.032	1.060	0.956	0.853	0.616	0.437	0.312	0.224	0.118
0.300	1.041	1.072	0.967	0.861	0.619	0.440	0.314	0.225	0.117
0.350	1.048	1.080	0.977	0.865	0.621	0.440	0.313	0.224	0.117
0.400	1.053	1.085	0.980	0.868	0.620	0.440	0.312	0.223	0.116
0.450	1.059	1.089	0.981	0.868	0.619	0.441	0.310	0.221	0.115
0.500	1.060	1.089	0.982	0.868	0.619	0.438	0.308	0.220	0.114
0.550	1.061	1.088	0.982	0.868	0.616	0.435	0.305	0.217	0.112
0.600	1.060	1.088	0.982	0.866	0.612	0.431	0.301	0.214	0.111
0.650	1.060	1.087	0.980	0.863	0.608	0.427	0.298	0.211	0.109
0.700	1.060	1.087	0.978	0.861	0.603	0.421	0.293	0.207	0.106
0.750	1.060	1.087	0.976	0.857	0.596	0.414	0.288	0.202	0.104
0.800	1.060	1.087	0.971	0.851	0.587	0.407	0.282	0.197	0.101
0.820	1.059	1.086	0.969	0.847	0.584	0.403	0.280	0.195	0.100
0.840	1.058	1.086	0.965	0.844	0.580	0.400	0.277	0.193	0.098
0.860	1.056	1.085	0.962	0.840	0.575	0.397	0.272	0.191	0.097
0.880	1.055	1.084	0.955	0.834	0.571	0.393	0.268	0.187	0.095
0.900	1.050	1.081	0.947	0.828	0.564	0.386	0.263	0.184	0.094
0.920	1.040	1.071	0.934	0.814	0.555	0.377	0.257	0.180	0.091
0.940	1.018	1.041	0.907	0.780	0.534	0.368	0.249	0.174	0.089
0.950	1.002	1.016	0.889	0.764	0.519	0.363	0.244	0.171	0.087
0.960	0.977	0.981	0.867	0.741	0.499	0.347	0.237	0.165	0.085
0.970	0.917	0.935	0.817	0.704	0.471	0.317	0.228	0.158	0.082
0.980	0.834	0.890	0.724	0.560	0.432	0.293	0.215	0.148	0.078
0.990	0.753	0.815	0.645	0.517	0.382	0.270	0.193	0.138	0.072
1.000	0.648	0.658	0.558	0.473	0.307	0.247	0.170	0.127	0.065
1.010	0.529	0.497	0.426	0.321	0.260	0.207	0.146	0.110	0.055
1.020	0.448	0.398	0.341	0.274	0.224	0.167	0.126	0.095	0.048
1.030	0.322	0.333	0.286	0.227	0.191	0.137	0.111	0.080	0.043
1.040	0.259	0.266	0.241	0.196	0.161	0.116	0.098	0.071	0.038
1.050	0.208	0.178	0.188	0.165	0.135	0.107	0.088	0.065	0.035
1.060	0.166	0.149	0.148	0.139	0.118	0.098	0.081	0.059	0.033
1.070	0.137	0.129	0.120	0.119	0.108	0.093	0.075	0.056	0.032
1.080	0.114	0.109	0.111	0.106	0.101	0.088	0.069	0.053	0.030
1.100	0.096	0.083	0.093	0.095	0.091	0.080	0.064	0.048	0.029
1.150	0.082	0.067	0.076	0.077	0.079	0.067	0.055	0.042	0.025
1.200	0.074	0.060	0.064	0.068	0.068	0.058	0.048	0.037	0.022
1.300	0.062	0.048	0.051	0.054	0.053	0.046	0.039	0.030	0.018

x = Off-axis distance
h = Field half-width
x = 12.5 * x/h (80.0 + depth) / 80.0

4 MV 10 X 10 cm Field 70 cm SSD Test Case

SSD = 70.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 1.0	5.0	9.0	13.0	17.0	21.0	25.0	33.0
0.000	1.000	0.803	0.623	0.474	0.357	0.273	0.208	0.122
0.050	1.001	0.803	0.625	0.473	0.358	0.274	0.209	0.122
0.100	1.005	0.804	0.627	0.474	0.359	0.274	0.209	0.122
0.150	1.009	0.807	0.629	0.476	0.360	0.274	0.209	0.122
0.200	1.015	0.810	0.631	0.478	0.360	0.275	0.210	0.122
0.250	1.021	0.814	0.634	0.478	0.361	0.275	0.210	0.123
0.300	1.026	0.817	0.636	0.479	0.362	0.276	0.210	0.123
0.350	1.031	0.822	0.637	0.480	0.362	0.276	0.211	0.123
0.400	1.036	0.827	0.639	0.481	0.362	0.276	0.211	0.123
0.450	1.042	0.831	0.639	0.483	0.362	0.276	0.211	0.122
0.500	1.047	0.834	0.640	0.482	0.361	0.276	0.211	0.122
0.550	1.053	0.836	0.639	0.481	0.361	0.275	0.210	0.121
0.600	1.055	0.838	0.639	0.480	0.360	0.274	0.208	0.120
0.650	1.057	0.836	0.636	0.479	0.358	0.273	0.207	0.120
0.700	1.056	0.833	0.633	0.476	0.356	0.271	0.204	0.119
0.750	1.052	0.828	0.622	0.471	0.353	0.267	0.201	0.116
0.800	1.038	0.816	0.607	0.464	0.345	0.262	0.196	0.114
0.820	1.026	0.809	0.599	0.458	0.339	0.260	0.193	0.113
0.840	1.007	0.801	0.584	0.452	0.333	0.257	0.190	0.111
0.860	0.984	0.783	0.564	0.446	0.325	0.252	0.186	0.109
0.880	0.957	0.770	0.541	0.437	0.315	0.247	0.181	0.106
0.900	0.909	0.758	0.515	0.428	0.303	0.238	0.175	0.103
0.920	0.872	0.726	0.476	0.411	0.287	0.229	0.166	0.099
0.940	0.788	0.680	0.424	0.389	0.265	0.220	0.152	0.091
0.950	0.756	0.655	0.406	0.377	0.256	0.215	0.144	0.087
0.960	0.715	0.630	0.388	0.362	0.248	0.210	0.137	0.083
0.970	0.648	0.604	0.369	0.346	0.238	0.205	0.130	0.080
0.980	0.595	0.579	0.349	0.332	0.225	0.192	0.123	0.076
0.990	0.546	0.553	0.327	0.319	0.212	0.182	0.116	0.073
1.000	0.505	0.526	0.304	0.307	0.199	0.174	0.110	0.069
1.010	0.464	0.489	0.282	0.293	0.184	0.166	0.103	0.065
1.020	0.425	0.452	0.259	0.275	0.170	0.158	0.096	0.060
1.030	0.390	0.415	0.235	0.258	0.155	0.147	0.089	0.056
1.040	0.356	0.378	0.210	0.239	0.141	0.130	0.082	0.051
1.050	0.321	0.339	0.186	0.210	0.131	0.119	0.077	0.047
1.060	0.290	0.297	0.173	0.185	0.122	0.112	0.072	0.044
1.070	0.258	0.254	0.161	0.175	0.112	0.105	0.067	0.042
1.080	0.227	0.230	0.150	0.165	0.103	0.098	0.062	0.039
1.100	0.179	0.197	0.127	0.145	0.089	0.086	0.056	0.034
1.150	0.104	0.115	0.088	0.104	0.068	0.062	0.045	0.028
1.200	0.065	0.088	0.075	0.076	0.057	0.051	0.039	0.025
1.300	0.043	0.059	0.058	0.058	0.046	0.041	0.033	0.021

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (70.0 + depth) / 80.0

4 MV 9 X 9 cm Wedge Field Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	1.000	0.903	0.807	0.595	0.430	0.309	0.224	0.119
0.050	1.025	0.917	0.820	0.604	0.439	0.314	0.228	0.121
0.100	1.047	0.933	0.835	0.613	0.445	0.319	0.232	0.122
0.150	1.068	0.952	0.851	0.624	0.452	0.324	0.236	0.124
0.200	1.089	0.970	0.867	0.635	0.458	0.330	0.239	0.126
0.250	1.110	0.990	0.883	0.647	0.466	0.335	0.242	0.127
0.300	1.134	1.012	0.899	0.658	0.474	0.340	0.245	0.129
0.350	1.158	1.035	0.915	0.669	0.482	0.344	0.249	0.130
0.400	1.182	1.057	0.932	0.680	0.490	0.349	0.252	0.132
0.450	1.207	1.079	0.951	0.691	0.498	0.354	0.256	0.134
0.500	1.234	1.101	0.971	0.702	0.506	0.359	0.260	0.135
0.550	1.260	1.123	0.991	0.713	0.513	0.363	0.264	0.136
0.600	1.287	1.145	1.011	0.724	0.520	0.368	0.266	0.137
0.650	1.313	1.162	1.030	0.736	0.526	0.373	0.269	0.138
0.700	1.335	1.180	1.047	0.747	0.532	0.377	0.270	0.139
0.750	1.351	1.196	1.060	0.753	0.538	0.378	0.271	0.139
0.800	1.355	1.198	1.061	0.755	0.541	0.377	0.269	0.139
0.820	1.351	1.195	1.058	0.751	0.539	0.375	0.267	0.138
0.840	1.325	1.185	1.053	0.747	0.537	0.372	0.265	0.138
0.860	1.300	1.161	1.043	0.740	0.534	0.369	0.262	0.136
0.880	1.268	1.134	1.033	0.733	0.530	0.366	0.258	0.133
0.900	1.215	1.089	1.014	0.725	0.520	0.362	0.254	0.130
0.920	1.166	1.047	0.979	0.699	0.507	0.355	0.248	0.126
0.940	1.088	1.004	0.931	0.663	0.487	0.346	0.234	0.120
0.950	1.045	0.977	0.904	0.649	0.472	0.335	0.227	0.117
0.960	1.002	0.950	0.881	0.633	0.458	0.318	0.220	0.113
0.970	0.956	0.908	0.862	0.615	0.445	0.305	0.214	0.108
0.980	0.911	0.863	0.842	0.598	0.429	0.296	0.208	0.106
0.990	0.865	0.814	0.808	0.574	0.412	0.287	0.201	0.101
1.000	0.789	0.754	0.774	0.550	0.391	0.274	0.192	0.095
1.010	0.713	0.701	0.738	0.526	0.370	0.256	0.179	0.088
1.020	0.649	0.654	0.703	0.501	0.353	0.241	0.167	0.083
1.030	0.588	0.608	0.666	0.475	0.336	0.230	0.155	0.077
1.040	0.527	0.559	0.609	0.451	0.318	0.218	0.144	0.072
1.050	0.488	0.510	0.553	0.427	0.297	0.206	0.133	0.066
1.060	0.451	0.461	0.495	0.403	0.275	0.192	0.122	0.063
1.070	0.413	0.419	0.437	0.367	0.254	0.177	0.115	0.060
1.080	0.376	0.383	0.397	0.326	0.232	0.163	0.108	0.056
1.100	0.305	0.311	0.321	0.265	0.187	0.133	0.094	0.050
1.150	0.168	0.191	0.205	0.179	0.134	0.090	0.067	0.036
1.200	0.104	0.119	0.138	0.126	0.100	0.072	0.054	0.030
1.300	0.069	0.080	0.085	0.083	0.070	0.055	0.043	0.025

x = Off-axis distance
h = Field half-width
x = 4.5 * x/h (80.0 + depth) / 80.0

4 MV 9 X 9 cm Wedge Field Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles right of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	1.000	0.903	0.807	0.595	0.430	0.309	0.224	0.119
0.050	0.981	0.889	0.793	0.586	0.424	0.305	0.222	0.118
0.100	0.966	0.875	0.780	0.578	0.419	0.301	0.219	0.116
0.150	0.953	0.861	0.771	0.572	0.413	0.298	0.217	0.115
0.200	0.943	0.852	0.762	0.566	0.409	0.294	0.214	0.114
0.250	0.935	0.844	0.756	0.560	0.405	0.291	0.212	0.112
0.300	0.928	0.838	0.751	0.555	0.401	0.288	0.209	0.111
0.350	0.920	0.831	0.745	0.549	0.397	0.285	0.207	0.110
0.400	0.913	0.825	0.738	0.544	0.393	0.281	0.204	0.109
0.450	0.907	0.819	0.731	0.538	0.389	0.278	0.202	0.108
0.500	0.901	0.812	0.724	0.533	0.385	0.275	0.201	0.107
0.550	0.894	0.806	0.718	0.527	0.380	0.271	0.199	0.106
0.600	0.886	0.799	0.712	0.521	0.375	0.268	0.196	0.104
0.650	0.878	0.791	0.703	0.514	0.370	0.265	0.192	0.103
0.700	0.867	0.779	0.690	0.505	0.365	0.260	0.189	0.101
0.750	0.856	0.762	0.672	0.493	0.354	0.253	0.185	0.098
0.800	0.835	0.734	0.646	0.474	0.339	0.237	0.179	0.095
0.820	0.816	0.719	0.638	0.465	0.330	0.229	0.176	0.094
0.840	0.795	0.702	0.624	0.448	0.320	0.222	0.172	0.092
0.860	0.773	0.679	0.597	0.428	0.309	0.216	0.168	0.091
0.880	0.752	0.656	0.570	0.407	0.297	0.207	0.164	0.089
0.900	0.731	0.623	0.543	0.380	0.279	0.195	0.159	0.085
0.920	0.686	0.591	0.516	0.343	0.242	0.183	0.154	0.081
0.940	0.636	0.558	0.433	0.305	0.217	0.165	0.144	0.076
0.950	0.608	0.541	0.399	0.287	0.205	0.156	0.138	0.073
0.960	0.579	0.515	0.373	0.269	0.191	0.147	0.132	0.070
0.970	0.551	0.485	0.348	0.252	0.176	0.138	0.125	0.068
0.980	0.522	0.454	0.322	0.234	0.163	0.129	0.118	0.065
0.990	0.491	0.422	0.293	0.216	0.153	0.120	0.111	0.061
1.000	0.453	0.388	0.265	0.200	0.144	0.112	0.104	0.058
1.010	0.414	0.355	0.236	0.184	0.135	0.106	0.097	0.054
1.020	0.375	0.322	0.209	0.169	0.127	0.099	0.092	0.050
1.030	0.342	0.289	0.181	0.154	0.120	0.093	0.087	0.047
1.040	0.308	0.256	0.162	0.144	0.113	0.088	0.082	0.044
1.050	0.275	0.224	0.153	0.134	0.106	0.082	0.069	0.041
1.060	0.242	0.192	0.143	0.125	0.101	0.077	0.066	0.039
1.070	0.212	0.166	0.134	0.117	0.095	0.073	0.062	0.037
1.080	0.183	0.154	0.124	0.110	0.090	0.070	0.059	0.036
1.100	0.146	0.136	0.107	0.098	0.080	0.063	0.054	0.033
1.150	0.091	0.090	0.083	0.078	0.064	0.054	0.046	0.028
1.200	0.068	0.070	0.066	0.068	0.055	0.046	0.040	0.025
1.300	0.049	0.053	0.052	0.054	0.047	0.040	0.034	0.020

x = Off-axis distance
h = Field half-width
x = 4.5 * x/h (80.0 + depth) / 80.0

4 MV Central Block Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 4.0 cm Off Axis

	Depth(cm)						
x/h	0.3	1.0	3.0	5.0	10.0	15.0	20.0
0.000	0.120	0.096	0.123	0.136	0.154	0.142	0.120
0.050	0.155	0.152	0.168	0.172	0.184	0.161	0.130
0.100	0.358	0.405	0.377	0.448	0.314	0.262	0.202
0.150	0.761	0.812	0.707	0.694	0.521	0.392	0.295
0.200	0.880	0.919	0.826	0.749	0.569	0.422	0.310
0.250	0.904	0.958	0.858	0.776	0.587	0.432	0.316
0.300	0.921	0.978	0.879	0.793	0.598	0.439	0.322
0.350	0.933	0.990	0.893	0.805	0.605	0.443	0.325
0.400	0.941	0.995	0.903	0.814	0.609	0.446	0.326
0.450	0.948	0.998	0.909	0.817	0.612	0.446	0.326
0.500	0.951	1.000	0.909	0.819	0.612	0.446	0.325
0.550	0.953	1.002	0.911	0.821	0.612	0.445	0.323
0.600	0.956	1.004	0.914	0.821	0.610	0.443	0.322
0.650	0.959	1.008	0.917	0.821	0.608	0.440	0.319
0.700	0.961	1.013	0.919	0.819	0.604	0.437	0.317
0.750	0.966	1.014	0.919	0.815	0.600	0.433	0.314
0.800	0.966	1.013	0.915	0.811	0.594	0.427	0.309
0.820	0.962	1.007	0.912	0.806	0.591	0.424	0.307
0.840	0.957	0.997	0.906	0.798	0.586	0.421	0.304
0.860	0.949	0.983	0.899	0.788	0.581	0.415	0.300
0.880	0.940	0.959	0.889	0.774	0.571	0.409	0.293
0.900	0.916	0.928	0.845	0.754	0.555	0.400	0.285
0.920	0.896	0.894	0.802	0.720	0.535	0.386	0.275
0.940	0.851	0.847	0.744	0.684	0.506	0.368	0.262
0.950	0.821	0.819	0.715	0.658	0.490	0.356	0.254
0.960	0.773	0.782	0.687	0.630	0.469	0.338	0.244
0.970	0.717	0.727	0.631	0.583	0.441	0.316	0.233
0.980	0.660	0.665	0.522	0.519	0.399	0.293	0.219
0.990	0.573	0.540	0.459	0.463	0.352	0.271	0.205
1.000	0.497	0.446	0.404	0.415	0.321	0.250	0.188
1.010	0.427	0.374	0.351	0.368	0.291	0.229	0.153
1.020	0.360	0.329	0.299	0.328	0.252	0.201	0.134
1.030	0.305	0.284	0.261	0.291	0.212	0.173	0.125
1.040	0.261	0.240	0.223	0.255	0.185	0.148	0.116
1.050	0.217	0.197	0.197	0.220	0.164	0.136	0.106
1.060	0.180	0.153	0.178	0.187	0.143	0.124	0.099
1.070	0.154	0.129	0.158	0.155	0.131	0.112	0.092
1.080	0.129	0.113	0.138	0.129	0.119	0.104	0.084
1.100	0.108	0.084	0.108	0.106	0.103	0.090	0.073
1.150	0.075	0.056	0.073	0.075	0.080	0.074	0.060
1.200	0.067	0.047	0.060	0.063	0.070	0.065	0.053
1.300	0.056	0.039	0.047	0.050	0.057	0.051	0.043

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (80.0 + depth) / 80.0

4 MV Off-Center Plane Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 0.3	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.886	1.000	0.907	0.806	0.586	0.418	0.300	0.217	0.113
0.050	0.886	1.003	0.909	0.806	0.586	0.419	0.300	0.217	0.113
0.100	0.886	1.003	0.910	0.807	0.586	0.420	0.300	0.217	0.113
0.150	0.887	1.004	0.911	0.808	0.586	0.420	0.300	0.218	0.113
0.200	0.888	1.006	0.912	0.809	0.586	0.420	0.300	0.218	0.113
0.250	0.888	1.008	0.914	0.810	0.587	0.420	0.300	0.218	0.113
0.300	0.889	1.010	0.915	0.811	0.588	0.419	0.300	0.217	0.112
0.350	0.889	1.013	0.917	0.812	0.588	0.418	0.299	0.216	0.112
0.400	0.889	1.015	0.917	0.813	0.588	0.417	0.299	0.215	0.111
0.450	0.889	1.017	0.918	0.813	0.587	0.416	0.299	0.214	0.110
0.500	0.888	1.017	0.918	0.812	0.586	0.415	0.298	0.213	0.110
0.550	0.889	1.017	0.919	0.810	0.585	0.413	0.297	0.212	0.109
0.600	0.889	1.014	0.920	0.809	0.583	0.411	0.294	0.211	0.108
0.650	0.890	1.011	0.920	0.806	0.580	0.408	0.292	0.209	0.108
0.700	0.891	1.006	0.916	0.801	0.577	0.405	0.288	0.206	0.106
0.750	0.887	0.996	0.910	0.793	0.568	0.400	0.283	0.202	0.104
0.800	0.879	0.980	0.900	0.776	0.555	0.389	0.278	0.197	0.102
0.820	0.872	0.968	0.894	0.763	0.549	0.383	0.273	0.194	0.101
0.840	0.865	0.947	0.887	0.747	0.541	0.377	0.269	0.190	0.099
0.860	0.854	0.920	0.872	0.730	0.529	0.369	0.264	0.184	0.097
0.880	0.838	0.887	0.858	0.707	0.517	0.360	0.255	0.177	0.095
0.900	0.816	0.846	0.841	0.678	0.502	0.348	0.245	0.171	0.093
0.920	0.781	0.784	0.819	0.643	0.487	0.332	0.233	0.166	0.087
0.940	0.732	0.726	0.764	0.602	0.463	0.309	0.217	0.149	0.082
0.950	0.704	0.699	0.741	0.581	0.450	0.295	0.209	0.142	0.078
0.960	0.675	0.672	0.718	0.544	0.413	0.279	0.200	0.134	0.074
0.970	0.646	0.578	0.695	0.506	0.389	0.263	0.188	0.126	0.070
0.980	0.633	0.541	0.674	0.467	0.370	0.245	0.176	0.119	0.066
0.990	0.592	0.505	0.652	0.426	0.351	0.227	0.162	0.113	0.062
1.000	0.551	0.456	0.631	0.386	0.328	0.209	0.147	0.106	0.059
1.010	0.507	0.369	0.535	0.355	0.302	0.190	0.136	0.092	0.055
1.020	0.462	0.327	0.496	0.330	0.276	0.170	0.126	0.078	0.050
1.030	0.413	0.293	0.457	0.305	0.256	0.151	0.116	0.074	0.046
1.040	0.367	0.258	0.419	0.280	0.240	0.137	0.109	0.069	0.043
1.050	0.332	0.224	0.382	0.255	0.224	0.128	0.102	0.064	0.041
1.060	0.297	0.201	0.344	0.229	0.208	0.119	0.094	0.059	0.039
1.070	0.263	0.182	0.305	0.204	0.192	0.110	0.085	0.055	0.037
1.080	0.235	0.164	0.265	0.179	0.175	0.100	0.076	0.052	0.035
1.100	0.184	0.127	0.202	0.138	0.141	0.085	0.066	0.047	0.030
1.150	0.109	0.066	0.116	0.077	0.091	0.060	0.052	0.039	0.025
1.200	0.067	0.044	0.073	0.055	0.064	0.050	0.044	0.034	0.022
1.300	0.048	0.029	0.042	0.040	0.049	0.039	0.036	0.029	0.019

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (80.0 + depth) / 80.0

4 MV Irregular Field Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 6.0 cm Off Axis

	Depth(cm)								
x/h	0.3	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.044	0.038	0.050	0.047	0.052	0.049	0.043	0.035	0.021
0.050	0.046	0.038	0.051	0.048	0.053	0.050	0.044	0.036	0.022
0.100	0.047	0.038	0.053	0.050	0.056	0.051	0.046	0.038	0.023
0.150	0.047	0.040	0.055	0.052	0.058	0.054	0.048	0.039	0.023
0.200	0.049	0.043	0.057	0.056	0.063	0.058	0.051	0.041	0.025
0.250	0.054	0.047	0.060	0.061	0.069	0.062	0.054	0.044	0.026
0.300	0.065	0.055	0.074	0.071	0.080	0.068	0.059	0.048	0.028
0.350	0.092	0.094	0.122	0.095	0.101	0.083	0.070	0.057	0.033
0.400	0.264	0.214	0.218	0.193	0.175	0.118	0.111	0.072	0.044
0.450	0.556	0.538	0.503	0.374	0.348	0.226	0.199	0.131	0.079
0.500	0.855	0.841	0.793	0.655	0.511	0.356	0.262	0.187	0.097
0.550	0.902	0.955	0.856	0.756	0.546	0.386	0.278	0.199	0.103
0.600	0.918	0.978	0.869	0.773	0.555	0.394	0.282	0.202	0.104
0.650	0.932	0.984	0.880	0.783	0.561	0.399	0.284	0.203	0.105
0.700	0.946	0.994	0.889	0.788	0.564	0.400	0.286	0.204	0.105
0.750	0.947	1.000	0.893	0.790	0.565	0.399	0.286	0.204	0.105
0.800	0.933	0.993	0.880	0.785	0.561	0.395	0.282	0.201	0.103
0.820	0.921	0.987	0.872	0.780	0.557	0.392	0.278	0.199	0.102
0.840	0.906	0.977	0.863	0.773	0.550	0.389	0.274	0.197	0.101
0.860	0.889	0.963	0.847	0.763	0.543	0.384	0.270	0.195	0.099
0.880	0.866	0.946	0.831	0.749	0.530	0.376	0.265	0.191	0.096
0.900	0.824	0.913	0.808	0.722	0.508	0.362	0.256	0.186	0.093
0.920	0.774	0.857	0.777	0.695	0.483	0.342	0.240	0.178	0.089
0.940	0.641	0.771	0.726	0.624	0.443	0.314	0.223	0.165	0.082
0.950	0.581	0.706	0.679	0.582	[illegible]6	0.300	0.212	0.158	0.078
0.960	0.500	0.626	0.634	0.535	[illegible]4	0.286	0.199	0.147	0.072
0.970	0.416	0.571	0.496	0.509	0.313	0.272	0.180	[illegible]	0.065
0.980	0.357	0.510	0.354	0.483	0.268	[illegible]3	0.160	0.126	0.0[illegible]
0.990	0.300	0.400	0.312	0.423	0.216	0.231	0.137	0.117	0.051
1.000	0.260	0.329	0.270	0.389	0.191	0.209	0.117	0.108	0.046
1.010	0.221	0.283	0.229	0.268	0.173	0.177	0.100	0.089	0.041
1.020	0.184	0.236	0.193	0.226	0.156	0.138	0.086	0.075	0.037
1.030	0.148	0.189	0.165	0.197	0.138	0.122	0.081	0.065	0.034
1.040	0.129	0.152	0.138	0.171	0.121	0.106	0.076	0.061	0.031
1.050	0.121	0.117	0.117	0.147	0.104	0.096	0.071	0.056	0.029
1.060	0.105	0.105	0.106	0.128	0.096	0.088	0.066	0.053	0.027
1.070	0.091	0.095	0.097	0.115	0.090	0.083	0.062	0.050	0.026
1.080	0.084	0.085	0.088	0.102	0.085	0.078	0.058	0.047	0.025
1.100	[illegible]75	0.067	0.073	0.087	0.076	0.070	0.054	0.044	0.023
1.150	[illegible].064	0.052	0.058	0.065	0.064	0.058	0.046	0.037	0.021
1.200	0.058	0.044	0.051	0.056	0.055	0.050	0.041	0.033	0.019
1.300	0.051	0.037	0.042	0.043	0.044	0.041	0.034	0.028	0.016

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (80.0 + depth) / 80.0

4 MV Lung Inhomogeneity Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 1.0	11.0	11.5	12.0	15.0	20.0	25.0	35.0
0.000	1.000	0.597	0.580	0.564	0.473	0.348	0.257	0.139
0.050	1.001	0.597	0.580	0.564	0.474	0.348	0.258	0.139
0.100	1.008	0.598	0.580	0.564	0.473	0.348	0.257	0.139
0.150	1.016	0.597	0.579	0.563	0.471	0.346	0.256	0.139
0.200	1.028	0.592	0.573	0.560	0.467	0.343	0.254	0.137
0.250	1.037	0.584	0.566	0.552	0.462	0.337	0.250	0.134
0.300	1.045	0.570	0.550	0.538	0.450	0.325	0.242	0.130
0.350	1.053	0.549	0.527	0.516	0.428	0.312	0.234	0.125
0.400	1.060	0.538	0.519	0.504	0.417	0.303	0.227	0.122
0.450	1.066	0.536	0.518	0.504	0.416	0.301	0.226	0.121
0.500	1.071	0.537	0.517	0.504	0.415	0.300	0.224	0.120
0.550	1.075	0.536	0.517	0.504	0.413	0.298	0.222	0.119
0.600	1.078	0.534	0.515	0.503	0.410	0.295	0.219	0.117
0.650	1.080	0.533	0.513	0.499	0.408	0.291	0.216	0.115
0.700	1.078	0.530	0.510	0.494	0.405	0.288	0.213	0.114
0.750	1.079	0.525	0.505	0.487	0.399	0.284	0.210	0.112
0.800	1.074	0.519	0.499	0.481	0.392	0.279	0.206	0.109
0.820	1.071	0.516	0.496	0.479	0.390	0.277	0.203	0.108
0.840	1.068	0.512	0.491	0.476	0.386	0.274	0.201	0.107
0.860	1.065	0.507	0.486	0.471	0.382	0.271	0.198	0.106
0.880	1.056	0.497	0.480	0.466	0.378	0.267	0.195	0.104
0.900	1.041	0.488	0.470	0.458	0.373	0.262	0.192	0.103
0.920	1.018	0.478	0.455	0.443	0.362	0.255	0.187	0.101
0.940	0.969	0.464	0.433	0.424	0.347	0.246	0.179	0.097
0.950	0.941	0.452	0.424	0.415	0.337	0.239	0.174	0.094
0.960	0.910	0.435	0.414	0.407	0.321	0.232	0.169	0.092
0.970	0.867	0.395	0.377	0.380	0.301	0.223	0.162	0.089
0.980	0.795	0.365	0.348	0.361	0.282	0.212	0.153	0.084
0.990	0.666	0.342	0.316	0.311	0.268	0.200	0.143	0.079
1.000	0.593	0.307	0.280	0.281	0.246	0.180	0.130	0.074
1.010	0.518	0.278	0.242	0.262	0.220	0.166	0.117	0.067
1.020	0.436	0.246	0.208	0.223	0.197	0.140	0.105	0.060
1.030	0.361	0.221	0.184	0.195	0.181	0.124	0.094	0.054
1.040	0.302	0.195	0.163	0.172	0.164	0.112	0.086	0.050
1.050	0.252	0.170	0.144	0.151	0.137	0.102	0.079	0.046
1.060	0.220	0.155	0.131	0.136	0.120	0.092	0.073	0.043
1.070	0.191	0.140	0.120	0.124	0.107	0.084	0.067	0.040
1.080	0.163	0.123	0.110	0.114	0.100	0.078	0.063	0.037
1.100	0.115	0.104	0.096	0.096	0.087	0.069	0.056	0.033
1.150	0.070	0.075	0.075	0.076	0.069	0.056	0.047	0.028
1.200	0.057	0.064	0.063	0.065	0.060	0.050	0.041	0.025
1.300	0.045	0.051	0.052	0.053	0.049	0.040	0.034	0.021

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (80.0 + depth) / 80.0

4 MV Bone Inhomogeneity Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

	Depth(cm)								
x/h	1.0	7.0	7.5	8.0	10.0	15.0	20.0	25.0	35.0
0.000	1.000	0.747	0.727	0.707	0.633	0.473	0.348	0.257	0.139
0.050	1.005	0.751	0.730	0.707	0.634	0.477	0.348	0.256	0.140
0.100	1.011	0.759	0.738	0.716	0.640	0.481	0.350	0.259	0.140
0.150	1.021	0.768	0.746	0.722	0.647	0.484	0.353	0.260	0.141
0.200	1.031	0.777	0.753	0.731	0.653	0.487	0.356	0.262	0.141
0.250	1.039	0.783	0.759	0.738	0.659	0.491	0.358	0.263	0.141
0.300	1.049	0.789	0.764	0.743	0.663	0.492	0.360	0.263	0.141
0.350	1.058	0.795	0.769	0.747	0.667	0.493	0.362	0.264	0.141
0.400	1.065	0.798	0.771	0.750	0.670	0.495	0.363	0.263	0.141
0.450	1.071	0.799	0.774	0.752	0.670	0.495	0.361	0.262	0.140
0.500	1.076	0.800	0.776	0.754	0.670	0.495	0.359	0.261	0.139
0.550	1.080	0.799	0.775	0.753	0.668	0.494	0.358	0.259	0.138
0.600	1.082	0.799	0.774	0.752	0.666	0.490	0.356	0.257	0.138
0.650	1.085	0.798	0.774	0.750	0.663	0.486	0.352	0.254	0.136
0.700	1.085	0.795	0.772	0.745	0.660	0.483	0.349	0.252	0.133
0.750	1.083	0.791	0.765	0.740	0.656	0.478	0.344	0.249	0.131
0.800	1.080	0.783	0.758	0.733	0.646	0.469	0.336	0.244	0.128
0.820	1.080	0.779	0.754	0.728	0.642	0.466	0.333	0.242	0.127
0.840	1.076	0.775	0.751	0.723	0.638	0.461	0.329	0.240	0.126
0.860	1.071	0.770	0.746	0.716	0.633	0.456	0.326	0.238	0.125
0.880	1.065	0.762	0.739	0.707	0.626	0.450	0.322	0.235	0.123
0.900	1.052	0.752	0.729	0.694	0.619	0.444	0.318	0.232	0.122
0.920	1.024	0.731	0.716	0.677	0.608	0.437	0.311	0.227	0.119
0.940	0.980	0.700	0.696	0.656	0.595	0.426	0.300	0.222	0.116
0.950	0.947	0.675	0.685	0.646	0.581	0.417	0.291	0.218	0.114
0.960	0.921	0.648	0.667	0.633	0.548	0.405	0.280	0.214	0.111
0.970	0.895	0.624	0.629	0.617	0.528	0.385	0.269	0.208	0.108
0.980	0.838	0.596	0.592	0.596	0.508	0.372	0.257	0.199	0.104
0.990	0.769	0.550	0.560	0.517	0.487	0.333	0.241	0.187	0.098
1.000	0.678	0.512	0.529	0.469	0.452	0.317	0.222	0.175	0.090
1.010	0.559	0.437	0.484	0.436	0.395	0.298	0.207	0.164	0.084
1.020	0.475	0.380	0.415	0.356	0.354	0.263	0.193	0.147	0.077
1.030	0.403	0.343	0.383	0.312	0.316	0.229	0.165	0.131	0.070
1.040	0.335	0.309	0.320	0.271	0.282	0.211	0.151	0.118	0.064
1.050	0.290	0.271	0.278	0.237	0.248	0.193	0.138	0.106	0.058
1.060	0.247	0.224	0.229	0.208	0.209	0.161	0.124	0.095	0.053
1.070	0.205	0.203	0.199	0.188	0.188	0.142	0.111	0.088	0.049
1.080	0.182	0.181	0.179	0.169	0.170	0.128	0.100	0.080	0.046
1.100	0.135	0.143	0.145	0.128	0.140	0.109	0.086	0.071	0.041
1.150	0.076	0.098	0.101	0.096	0.096	0.083	0.070	0.057	0.034
1.200	0.062	0.080	0.083	0.079	0.081	0.072	0.061	0.051	0.030
1.300	0.047	0.060	0.064	0.062	0.063	0.058	0.050	0.041	0.025

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (80.0 + depth) / 80.0

4 MV Oblique Incidence Test Case

SSD = 80.0
Field size definition distance = 80.0
Profiles left of central axis

Dose Relative to 1.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 0.3	1.0	3.0	5.0	10.0	15.0	20.0
0.000	0.940	1.000	0.915	0.819	0.601	0.436	0.315
0.050	0.950	1.005	0.921	0.824	0.604	0.439	0.318
0.100	0.957	1.013	0.927	0.828	0.608	0.442	0.320
0.150	0.964	1.020	0.932	0.832	0.612	0.445	0.322
0.200	0.970	1.026	0.938	0.837	0.616	0.449	0.324
0.250	0.977	1.032	0.944	0.842	0.620	0.453	0.326
0.300	0.983	1.041	0.951	0.848	0.624	0.456	0.328
0.350	0.990	1.050	0.959	0.854	0.628	0.459	0.330
0.400	0.997	1.059	0.966	0.860	0.632	0.462	0.332
0.450	1.005	1.068	0.974	0.867	0.636	0.465	0.334
0.500	1.012	1.077	0.981	0.873	0.640	0.467	0.336
0.550	1.020	1.085	0.987	0.879	0.643	0.470	0.338
0.600	1.028	1.093	0.994	0.884	0.647	0.472	0.340
0.650	1.036	1.101	1.000	0.890	0.650	0.474	0.342
0.700	1.044	1.110	1.007	0.895	0.653	0.477	0.344
0.750	1.052	1.118	1.015	0.900	0.656	0.479	0.347
0.800	1.058	1.126	1.022	0.904	0.659	0.481	0.349
0.820	1.060	1.129	1.025	0.906	0.659	0.482	0.350
0.840	1.061	1.131	1.026	0.907	0.659	0.483	0.351
0.860	1.061	1.134	1.027	0.908	0.660	0.484	0.352
0.880	1.062	1.135	1.027	0.909	0.660	0.485	0.352
0.900	1.062	1.136	1.028	0.910	0.660	0.485	0.353
0.920	1.062	1.137	1.028	0.910	0.660	0.486	0.353
0.940	1.061	1.138	1.028	0.910	0.661	0.487	0.353
.950	1.060	1.138	1.028	0.910	0.661	0.487	0.353
0.960	1.059	1.138	1.027	0.910	0.661	0.487	0.354
0.970	1.058	1.138	1.027	0.910	0.661	0.487	0.354
0.980	1.057	1.138	1.026	0.910	0.660	0.486	0.354
0.990	1.055	1.137	1.026	0.909	0.660	0.486	0.354
1.000	1.053	1.135	1.024	0.907	0.660	0.486	0.354
1.010	1.050	1.133	1.021	0.906	0.659	0.486	0.354
1.020	1.047	1.131	1.019	0.904	0.659	0.485	0.354
1.030	1.044	1.128	1.017	0.903	0.658	0.485	0.354
1.040	1.041	1.123	1.014	0.901	0.658	0.485	0.354
1.050	1.036	1.118	1.010	0.899	0.657	0.484	0.354
1.060	1.031	1.112	1.007	0.897	0.656	0.483	0.354
1.070	1.025	1.106	1.002	0.895	0.655	0.482	0.353
1.080	1.017	1.101	0.996	0.892	0.653	0.480	0.353
1.100	0.997	1.083	0.982	0.888	0.650	0.478	0.353
1.150	0.908	1.008	0.932	0.860	0.636	0.472	0.350
.200	0.756	0.871	0.856	0.803	0.610	0.462	0.343
.300	0.357	0.445	0.560	0.528	0.485	0.405	0.317

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (80.0 + depth) / 80.0

18 MV BEAM DATA

18 MV Beam Data

Absorbed Dose Relative to 10 X 10 cm Field

Field Size	In Phantom	In Air
4 X 4	0.918	0.938
6 X 6	0.954	0.959
8 X 8	0.978	0.980
10 X 10	1.000	1.000
12 X 12	1.023	1.022
14 X 14	1.044	1.042
16 X 16	1.066	1.064
18 X 18	1.087	1.084
20 X 20	1.106	1.104
22 X 22	1.123	1.122
24 X 24	1.140	1.139
26 X 26	1.157	1.155
28 X 28	1.171	1.170
30 X 30	1.185	1.184
32 X 32	1.196	1.197

Field Size	In Air
5 X 5	0.947
5 X 6	0.952
5 X 8	0.961
5 X 10	0.968
5 X 14	0.980
5 X 18	0.989
5 X 22	0.996
5 X 32	1.006
6 X 5	0.951
8 X 5	0.959
10 X 5	0.965
14 X 5	0.974
18 X 5	0.983
22 X 5	0.989
32 X 5	0.998

Field Size: transverse X axiel dimension at 100 cm SAD

Block Characteristics

Half-Beam Block and Irregular Field	
Block Transmimmion Factor	0.036
Block Thickness (cm)	8.0
Block Attenuation (1/cm)	0.416
Central Block Test Case	
Block Transmission Factor	0.033
Block Thickness (cm)	7.0
Block Attenuation (1/cm)	0.487
Tray Transmission Factor	0.977
Wedge Transmission Factor	0.648

Treatment Unit Demensions (cm)

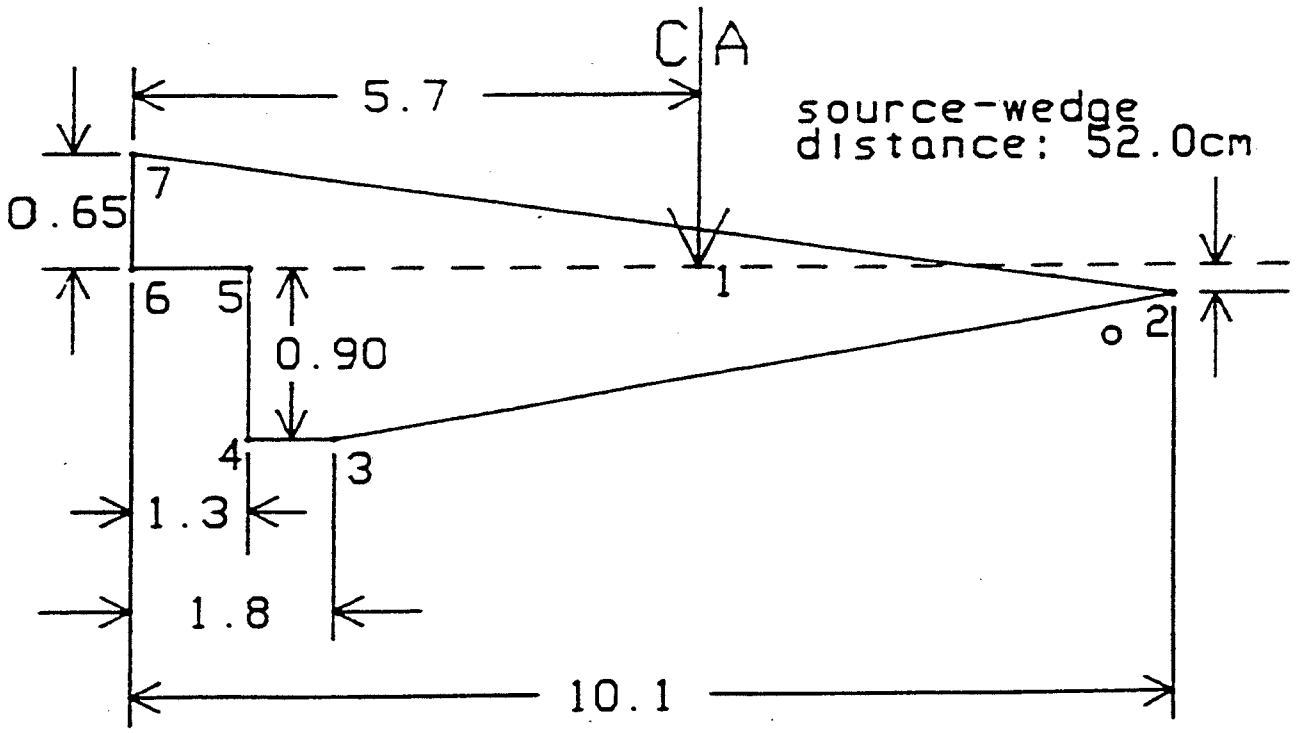
Source-Axis Distance	100.0
Source-Wedge Distance	52.0
Source-Tray Distance	56.2

(8 cm block hangs below tray)

Half Value Layer

Off-Axis	HVL (water)
0.0 cm	21.1 cm
5.0	21.8
10.0	21.5
15.0	20.5
20.0	19.9
25.0	19.1

18 MV 45deg WEDGE



- point coordinates (cm)

1 (0.0, 0.0)	5 (-4.4, 0.0)
2 (4.40, -0.20)	6 (-5.7, 0.0)
3 (-3.9, -0.90)	7 (-5.7, 0.65)
4 (-4.4, -0.90)	

central axis thickness: 0.74cm
transmission factor: 0.648
attenuation coeficient: 0.586/cm
material: lead

18 MV Verification Package Plots

Beam Data

Test Cases

18 MV DEPTH DOSE TABLE 100 cm SSD

DEPTH	4X4	6X6	8X8	10X10	12X12	14X14	16X16	18X18	20X20	22X22	24X24	26X26	28X28	30X30	32X32
0.0	0.225	0.241	0.262	0.285	0.305	0.326	0.350	0.379	0.401	0.426	0.466	0.490	0.520	0.546	0.568
0.5	0.567	0.572	0.590	0.610	0.630	0.650	0.670	0.700	0.720	0.740	0.760	0.775	0.792	0.807	0.833
1.0	0.790	0.797	0.810	0.820	0.835	0.850	0.865	0.880	0.892	0.904	0.920	0.932	0.940	0.950	0.964
2.0	0.964	0.964	0.965	0.966	0.970	0.977	0.985	0.992	0.995	0.999	1.005	1.009	1.013	1.017	1.021
2.5	0.992	0.991	0.989	0.990	0.998	0.999	0.996	1.004	1.005	1.006	1.009	1.010	1.011	1.012	1.014
3.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3.5	0.997	1.000	0.999	0.997	0.995	0.994	0.995	0.990	0.989	0.989	0.989	0.986	0.986	0.984	0.983
4.0	0.986	0.992	0.991	0.989	0.983	0.982	0.984	0.978	0.976	0.974	0.972	0.970	0.968	0.966	0.966
4.5	0.973	0.978	0.980	0.975	0.971	0.968	0.969	0.961	0.959	0.958	0.956	0.953	0.951	0.949	0.948
5.0	0.955	0.961	0.964	0.960	0.955	0.951	0.954	0.944	0.942	0.941	0.939	0.937	0.933	0.931	0.931
6.0	0.916	0.926	0.929	0.925	0.919	0.917	0.919	0.911	0.907	0.906	0.904	0.902	0.899	0.898	0.896
7.0	0.876	0.887	0.894	0.888	0.884	0.882	0.885	0.877	0.876	0.873	0.871	0.868	0.866	0.865	0.864
8.0	0.838	0.851	0.855	0.854	0.850	0.848	0.851	0.844	0.843	0.840	0.840	0.836	0.835	0.834	0.833
9.0	0.800	0.813	0.820	0.820	0.816	0.814	0.818	0.813	0.811	0.809	0.810	0.806	0.804	0.803	0.802
10.0	0.765	0.779	0.786	0.786	0.781	0.782	0.786	0.781	0.779	0.779	0.778	0.776	0.775	0.774	0.774
11.0	0.730	0.743	0.753	0.753	0.752	0.751	0.755	0.751	0.749	0.749	0.748	0.746	0.746	0.745	0.745
12.0	0.697	0.711	0.721	0.722	0.721	0.721	0.725	0.721	0.721	0.720	0.720	0.718	0.718	0.716	0.717
13.0	0.666	0.680	0.689	0.693	0.692	0.692	0.696	0.693	0.694	0.693	0.692	0.691	0.690	0.690	0.691
14.0	0.636	0.650	0.661	0.663	0.663	0.665	0.670	0.666	0.666	0.666	0.666	0.665	0.665	0.665	0.665
15.0	0.607	0.622	0.632	0.637	0.636	0.637	0.642	0.639	0.640	0.641	0.640	0.640	0.639	0.640	0.640
16.0	0.581	0.595	0.606	0.610	0.610	0.613	0.618	0.614	0.615	0.615	0.616	0.615	0.614	0.614	0.615
17.0	0.553	0.569	0.580	0.584	0.585	0.588	0.592	0.590	0.591	0.591	0.593	0.592	0.591	0.592	0.593
18.0	0.530	0.544	0.554	0.558	0.560	0.565	0.568	0.567	0.568	0.567	0.569	0.569	0.569	0.568	0.570
19.0	0.506	0.520	0.531	0.537	0.538	0.541	0.546	0.545	0.545	0.546	0.548	0.547	0.547	0.548	0.549
20.0	0.482	0.497	0.509	0.513	0.515	0.519	0.524	0.523	0.523	0.524	0.526	0.526	0.526	0.526	0.528
21.0	0.462	0.476	0.487	0.491	0.494	0.498	0.502	0.502	0.503	0.504	0.506	0.505	0.507	0.507	0.508
22.0	0.441	0.455	0.466	0.472	0.474	0.478	0.482	0.482	0.483	0.484	0.486	0.486	0.487	0.488	0.488
23.0	0.422	0.436	0.447	0.451	0.455	0.459	0.462	0.463	0.464	0.466	0.468	0.467	0.468	0.469	0.470
24.0	0.404	0.418	0.427	0.434	0.437	0.440	0.445	0.445	0.447	0.448	0.450	0.450	0.451	0.451	0.453
25.0	0.386	0.399	0.410	0.415	0.419	0.422	0.427	0.427	0.429	0.431	0.433	0.432	0.433	0.434	0.436
26.0	0.369	0.382	0.393	0.397	0.401	0.405	0.409	0.410	0.412	0.414	0.415	0.416	0.416	0.417	0.419
27.0	0.354	0.365	0.375	0.380	0.385	0.388	0.393	0.394	0.396	0.398	0.399	0.400	0.400	0.401	0.404
28.0	0.339	0.350	0.360	0.364	0.370	0.372	0.378	0.378	0.381	0.382	0.383	0.385	0.386	0.385	0.388
29.0	0.325	0.335	0.345	0.350	0.355	0.358	0.363	0.365	0.365	0.367	0.370	0.369	0.371	0.371	0.373
30.0	0.310	0.322	0.331	0.336	0.340	0.344	0.348	0.350	0.352	0.353	0.355	0.355	0.357	0.357	0.359
31.0	0.298	0.308	0.317	0.321	0.328	0.331	0.334	0.336	0.339	0.340	0.342	0.342	0.343	0.344	0.346
32.0	0.286	0.296	0.305	0.308	0.314	0.318	0.322	0.323	0.325	0.327	0.329	0.329	0.330	0.331	0.333
33.0	0.273	0.284	0.292	0.295	0.301	0.305	0.309	0.311	0.313	0.315	0.316	0.317	0.318	0.319	0.321
34.0	0.262	0.272	0.280	0.283	0.289	0.293	0.297	0.299	0.301	0.303	0.304	0.305	0.306	0.306	0.308

18 MV 8 x 8 cm Wedge Field Central Axis Depth Dose

Source-surface distance (SSD) 100.0 cm
Field size definaition distance (SAD) 100.0 cm

Depth	DD	Depth	DD	Depth	DD
0.0	0.239	0.2	0.248	0.4	0.497
0.6	0.619	0.8	0.712	1.0	0.788
2.0	0.958	3.0	1.000	4.0	0.991
5.0	0.965	6.0	0.932	7.0	0.891
8.0	0.857	9.0	0.823	10.0	0.786
11.0	0.757	12.0	0.723	13.0	0.690
14.0	0.664	15.0	0.635	16.0	0.605
17.0	0.582	18.0	0.556	19.0	0.536
20.0	0.512	21.0	0.489	22.0	0.469
23.0	0.449	24.0	0.433	25.0	0.413
26.0	0.396	27.0	0.382	28.0	0.365
29.0	0.351	30.0	0.337	31.0	0.323
32.0	0.312	33.0	0.299	34.0	0.287

18 MV 10 x 10 cm Wedge Field Central Axis Depth Dose

Source-surface distance (SSD) 100.0 cm
Field size definaition distance (SAD) 100.0 cm

Depth	DD	Depth	DD	Depth	DD
0.0	0.293	0.2	0.382	0.4	0.523
0.6	0.652	0.8	0.734	1.0	0.803
2.0	0.969	3.0	1.000	4.0	0.986
5.0	0.962	6.0	0.921	7.0	0.889
8.0	0.851	9.0	0.819	10.0	0.784
11.0	0.756	12.0	0.722	13.0	0.694
14.0	0.664	15.0	0.643	16.0	0.611
17.0	0.587	18.0	0.562	19.0	0.538
20.0	0.515	21.0	0.494	22.0	0.473
23.0	0.455	24.0	0.435	25.0	0.417
26.0	0.400	27.0	0.384	28.0	0.368
29.0	0.353	30.0	0.341	31.0	0.327
32.0	0.313	33.0	0.301	34.0	0.290

18 MV TISSUE PHANTOM RATIO TABLE

DEPTH	4X4	6X6	8X8	10X10	12X12	14X14	16X16	18X18	20X20	22X22	24X24	26X26	28X28	30X30	32X32
0.0	0.212	0.227	0.247	0.269	0.288	0.307	0.330	0.357	0.378	0.401	0.439	0.462	0.490	0.515	0.535
0.5	0.540	0.545	0.562	0.580	0.599	0.618	0.637	0.665	0.684	0.703	0.722	0.737	0.753	0.767	0.790
1.0	0.760	0.767	0.779	0.788	0.802	0.816	0.831	0.845	0.856	0.868	0.883	0.895	0.903	0.912	0.924
2.0	0.946	0.946	0.946	0.947	0.951	0.957	0.965	0.972	0.975	0.979	0.984	0.989	0.992	0.996	1.000
2.5	0.983	0.982	0.979	0.981	0.988	0.989	0.987	0.993	0.995	0.996	0.998	1.000	1.001	1.002	1.003
3.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3.5	1.006	1.009	1.009	1.007	1.005	1.004	1.004	1.001	0.999	0.999	0.998	0.997	0.995	0.994	0.993
4.0	1.004	1.010	1.011	1.008	1.003	1.002	1.002	0.999	0.996	0.994	0.992	0.990	0.988	0.986	0.985
4.5	1.000	1.005	1.008	1.005	1.000	0.997	0.997	0.992	0.988	0.987	0.985	0.983	0.980	0.978	0.977
5.0	0.991	0.997	1.001	0.999	0.994	0.990	0.990	0.985	0.981	0.979	0.977	0.975	0.972	0.969	0.968
6.0	0.968	0.977	0.983	0.980	0.975	0.972	0.972	0.969	0.964	0.961	0.959	0.957	0.955	0.952	0.951
7.0	0.942	0.953	0.962	0.960	0.956	0.953	0.953	0.951	0.947	0.945	0.941	0.939	0.937	0.935	0.935
8.0	0.918	0.930	0.938	0.939	0.937	0.934	0.934	0.932	0.929	0.926	0.924	0.923	0.920	0.919	0.918
9.0	0.892	0.905	0.915	0.918	0.916	0.913	0.914	0.914	0.911	0.908	0.906	0.907	0.904	0.901	0.901
10.0	0.867	0.881	0.893	0.896	0.894	0.891	0.893	0.895	0.891	0.889	0.888	0.887	0.886	0.885	0.884
11.0	0.842	0.856	0.870	0.874	0.874	0.872	0.873	0.875	0.873	0.871	0.870	0.869	0.868	0.867	0.867
12.0	0.818	0.832	0.846	0.852	0.853	0.852	0.853	0.856	0.854	0.853	0.852	0.851	0.851	0.850	0.849
13.0	0.795	0.810	0.824	0.830	0.833	0.832	0.833	0.837	0.835	0.835	0.835	0.833	0.833	0.832	0.832
14.0	0.772	0.786	0.802	0.810	0.812	0.812	0.815	0.819	0.818	0.817	0.816	0.816	0.816	0.815	0.816
15.0	0.749	0.764	0.780	0.789	0.793	0.792	0.794	0.799	0.799	0.798	0.799	0.798	0.798	0.798	0.798
16.0	0.729	0.743	0.760	0.769	0.773	0.773	0.777	0.781	0.781	0.781	0.780	0.780	0.781	0.781	0.780
17.0	0.704	0.721	0.739	0.749	0.753	0.754	0.757	0.761	0.763	0.763	0.763	0.763	0.764	0.765	0.764
18.0	0.687	0.701	0.718	0.728	0.732	0.734	0.739	0.742	0.745	0.746	0.745	0.744	0.746	0.747	0.748
19.0	0.666	0.681	0.699	0.710	0.716	0.718	0.720	0.724	0.728	0.729	0.729	0.729	0.730	0.731	0.731
20.0	0.644	0.660	0.679	0.691	0.696	0.698	0.702	0.707	0.711	0.712	0.711	0.710	0.712	0.714	0.715
21.0	0.628	0.642	0.660	0.672	0.678	0.681	0.685	0.689	0.693	0.694	0.694	0.695	0.697	0.698	0.699
22.0	0.609	0.623	0.642	0.654	0.661	0.663	0.668	0.672	0.676	0.678	0.678	0.679	0.680	0.682	0.684
23.0	0.592	0.606	0.625	0.637	0.642	0.646	0.651	0.655	0.659	0.662	0.662	0.663	0.666	0.667	0.668
24.0	0.575	0.590	0.608	0.619	0.627	0.631	0.635	0.639	0.644	0.647	0.648	0.649	0.650	0.652	0.654
25.0	0.558	0.572	0.590	0.602	0.609	0.614	0.618	0.622	0.628	0.630	0.632	0.633	0.635	0.638	0.638
26.0	0.541	0.555	0.574	0.586	0.592	0.597	0.602	0.607	0.612	0.615	0.616	0.617	0.619	0.621	0.623
27.0	0.528	0.540	0.557	0.568	0.575	0.581	0.586	0.590	0.596	0.600	0.601	0.602	0.605	0.606	0.609
28.0	0.513	0.525	0.542	0.553	0.560	0.566	0.572	0.574	0.582	0.585	0.587	0.588	0.589	0.591	0.594
29.0	0.500	0.510	0.526	0.538	0.546	0.552	0.557	0.561	0.567	0.572	0.574	0.574	0.575	0.578	0.581
30.0	0.482	0.495	0.513	0.524	0.531	0.536	0.542	0.547	0.552	0.556	0.559	0.560	0.561	0.564	0.566
31.0	0.471	0.482	0.498	0.509	0.516	0.522	0.530	0.534	0.539	0.543	0.545	0.548	0.549	0.551	0.554
32.0	0.459	0.469	0.486	0.497	0.503	0.508	0.515	0.520	0.526	0.530	0.532	0.533	0.535	0.538	0.541
33.0	0.443	0.455	0.473	0.483	0.489	0.493	0.501	0.506	0.512	0.516	0.520	0.521	0.523	0.525	0.527
34.0	0.432	0.443	0.459	0.470	0.476	0.481	0.488	0.493	0.499	0.504	0.507	0.508	0.510	0.512	0.515

18 MV 4 X 4 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.999	0.998	1.001	1.000	0.998	0.999	0.999	0.999	0.997
0.100	0.998	0.995	1.000	1.000	0.996	0.997	0.998	0.997	0.998
0.150	0.996	0.993	0.997	1.000	0.994	0.995	0.996	0.999	0.998
0.200	0.995	0.992	0.994	0.998	0.993	0.993	0.993	0.993	0.995
0.250	0.993	0.991	0.994	0.995	0.991	0.992	0.990	0.993	0.997
0.300	0.992	0.991	0.992	0.992	0.989	0.989	0.988	0.989	0.993
0.350	0.992	0.988	0.987	0.988	0.985	0.986	0.984	0.986	0.988
0.400	0.990	0.984	0.980	0.983	0.981	0.981	0.976	0.980	0.981
0.450	0.986	0.978	0.972	0.977	0.976	0.974	0.973	0.973	0.972
0.500	0.980	0.970	0.962	0.967	0.966	0.964	0.966	0.966	0.963
0.550	0.972	0.958	0.951	0.958	0.953	0.953	0.956	0.956	0.954
0.600	0.959	0.944	0.938	0.942	0.938	0.939	0.941	0.944	0.941
0.650	0.943	0.926	0.917	0.923	0.919	0.922	0.922	0.925	0.924
0.700	0.923	0.903	0.892	0.899	0.894	0.898	0.897	0.898	0.901
0.750	0.893	0.869	0.859	0.865	0.860	0.864	0.864	0.867	0.868
0.800	0.850	0.822	0.815	0.818	0.813	0.819	0.816	0.823	0.823
0.820	0.828	0.800	0.791	0.798	0.791	0.796	0.792	0.804	0.801
0.840	0.806	0.777	0.767	0.770	0.765	0.770	0.766	0.777	0.777
0.860	0.774	0.746	0.743	0.740	0.737	0.744	0.741	0.749	0.748
0.880	0.740	0.714	0.712	0.711	0.710	0.715	0.711	0.720	0.718
0.900	0.705	0.683	0.680	0.678	0.679	0.682	0.680	0.687	0.685
0.920	0.669	0.649	0.647	0.644	0.646	0.649	0.650	0.653	0.650
0.940	0.626	0.612	0.613	0.610	0.614	0.615	0.614	0.618	0.615
0.950	0.605	0.593	0.594	0.594	0.597	0.597	0.596	0.599	0.596
0.960	0.584	0.574	0.576	0.576	0.579	0.579	0.578	0.581	0.577
0.970	0.562	0.556	0.558	0.559	0.560	0.561	0.560	0.562	0.558
0.980	0.541	0.537	0.539	0.541	0.541	0.543	0.542	0.544	0.539
0.990	0.520	0.518	0.521	0.524	0.523	0.525	0.524	0.525	0.520
1.000	0.500	0.500	0.503	0.506	0.504	0.507	0.506	0.508	0.503
1.010	0.480	0.481	0.485	0.489	0.485	0.489	0.488	0.491	0.485
1.020	0.460	0.463	0.467	0.471	0.468	0.471	0.470	0.474	0.468
1.030	0.440	0.444	0.450	0.454	0.451	0.453	0.451	0.457	0.451
1.040	0.419	0.426	0.432	0.437	0.434	0.435	0.434	0.439	0.434
1.050	0.399	0.407	0.414	0.420	0.417	0.418	0.418	0.423	0.417
1.060	0.380	0.391	0.396	0.403	0.400	0.402	0.402	0.407	0.401
1.070	0.363	0.375	0.380	0.386	0.383	0.387	0.386	0.391	0.385
1.080	0.346	0.359	0.365	0.369	0.367	0.372	0.369	0.375	0.369
1.100	0.312	0.328	0.335	0.340	0.338	0.341	0.338	0.344	0.338
1.150	0.238	0.259	0.266	0.270	0.269	0.276	0.271	0.278	0.271
1.200	0.177	0.200	0.209	0.217	0.213	0.222	0.216	0.227	0.218
1.300	0.105	0.124	0.134	0.142	0.140	0.147	0.142	0.150	0.146

18 MV 4 X 4 cm Open Field (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.066	0.079	0.088	0.096	0.095	0.102	0.099	0.106	0.105
1.500	0.046	0.054	0.061	0.070	0.069	0.077	0.073	0.080	0.081
1.600	0.035	0.039	0.045	0.053	0.052	0.060	0.059	0.065	0.065
1.700	0.029	0.030	0.035	0.042	0.042	0.050	0.048	0.055	0.054
1.800	0.026	0.024	0.028	0.036	0.034	0.043	0.042	0.048	0.047
1.900	0.023	0.020	0.023	0.030	0.029	0.038	0.036	0.042	0.044
2.000	0.022	0.017	0.020	0.026	0.025	0.033	0.032	0.037	0.040
2.100	0.021	0.016	0.018	0.024	0.023	0.029	0.031	0.035	0.039
2.200	0.020	0.014	0.015	0.021	0.021	0.027	0.027	0.033	0.036
2.300	0.018	0.013	0.014	0.020	0.019	0.025	0.024	0.030	0.032
2.400	0.017	0.012	0.013	0.018	0.017	0.023	0.024	0.029	
2.500	0.017	0.011	0.011	0.017	0.017	0.022	0.021	0.026	
2.600	0.015	0.011	0.011	0.016	0.016	0.021	0.021		
2.700	0.015	0.010	0.010		0.015	0.019			
2.800	0.014	0.010	0.009		0.014				
2.900	0.014	0.008							

x = Off-axis distance
h = Field half-width
x = 2.0 * x/h (100.0 + depth) / 100.0

18 MV 6 X 6 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.001	1.000	1.002	0.999	1.000	0.997	1.002	1.002	1.003
0.100	0.999	1.000	1.003	0.998	1.000	0.996	1.002	1.003	1.003
0.150	0.999	1.002	1.001	0.997	0.996	0.995	0.999	1.000	1.001
0.200	1.000	1.003	0.999	0.996	0.994	0.995	0.999	0.997	0.999
0.250	0.998	1.002	0.996	0.996	0.995	0.995	0.997	0.993	0.998
0.300	0.998	1.000	0.996	0.993	0.993	0.993	0.995	0.991	0.994
0.350	0.998	0.999	0.997	0.991	0.991	0.991	0.992	0.993	0.989
0.400	0.998	0.998	0.991	0.988	0.987	0.986	0.988	0.992	0.990
0.450	0.996	0.994	0.988	0.984	0.983	0.981	0.984	0.986	0.986
0.500	0.992	0.991	0.985	0.980	0.979	0.977	0.979	0.980	0.983
0.550	0.993	0.989	0.980	0.974	0.975	0.971	0.974	0.973	0.976
0.600	0.992	0.982	0.971	0.965	0.966	0.961	0.966	0.965	0.968
0.650	0.981	0.971	0.958	0.954	0.952	0.949	0.954	0.953	0.956
0.700	0.967	0.953	0.943	0.935	0.935	0.930	0.936	0.937	0.937
0.750	0.950	0.927	0.917	0.908	0.912	0.904	0.911	0.911	0.915
0.800	0.920	0.891	0.880	0.870	0.877	0.871	0.880	0.871	0.878
0.820	0.902	0.873	0.860	0.851	0.855	0.850	0.858	0.852	0.858
0.840	0.884	0.849	0.838	0.831	0.830	0.829	0.834	0.829	0.833
0.860	0.853	0.822	0.808	0.802	0.805	0.803	0.809	0.806	0.808
0.880	0.823	0.790	0.778	0.768	0.771	0.767	0.772	0.773	0.771
0.900	0.783	0.750	0.739	0.735	0.731	0.732	0.733	0.736	0.732
0.920	0.737	0.710	0.699	0.695	0.692	0.692	0.694	0.698	0.691
0.940	0.688	0.659	0.652	0.647	0.646	0.645	0.645	0.651	0.644
0.950	0.658	0.633	0.627	0.622	0.621	0.622	0.620	0.626	0.621
0.960	0.627	0.607	0.602	0.598	0.596	0.598	0.596	0.602	0.597
0.970	0.597	0.581	0.577	0.574	0.571	0.575	0.571	0.577	0.573
0.980	0.567	0.554	0.550	0.550	0.546	0.550	0.547	0.552	0.549
0.990	0.536	0.527	0.522	0.525	0.521	0.526	0.522	0.527	0.524
1.000	0.506	0.500	0.495	0.501	0.497	0.501	0.497	0.503	0.500
1.010	0.475	0.473	0.467	0.476	0.473	0.476	0.473	0.478	0.475
1.020	0.445	0.447	0.441	0.451	0.448	0.452	0.448	0.454	0.450
1.030	0.415	0.423	0.418	0.426	0.424	0.427	0.423	0.429	0.428
1.040	0.389	0.398	0.394	0.402	0.400	0.405	0.401	0.406	0.406
1.050	0.363	0.373	0.370	0.381	0.376	0.385	0.381	0.386	0.385
1.060	0.338	0.348	0.346	0.361	0.355	0.365	0.361	0.366	0.363
1.070	0.312	0.329	0.327	0.341	0.336	0.344	0.342	0.347	0.341
1.080	0.289	0.310	0.308	0.321	0.317	0.324	0.322	0.327	0.322
1.100	0.251	0.271	0.270	0.281	0.280	0.286	0.285	0.290	0.290
1.150	0.175	0.193	0.196	0.210	0.208	0.214	0.212	0.216	0.219
1.200	0.126	0.139	0.144	0.158	0.157	0.165	0.164	0.168	0.170
1.300	0.077	0.079	0.088	0.096	0.098	0.107	0.108	0.112	0.115

18 MV 6 X 6 cm Open Field (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.057	0.052	0.059	0.067	0.070	0.078	0.079	0.085	0.089
1.500	0.048	0.039	0.043	0.051	0.053	0.062	0.064	0.069	0.074
1.600	0.042	0.031	0.035	0.042	0.044	0.053	0.055	0.060	0.066
1.700	0.040	0.027	0.029	0.035	0.037	0.045	0.047	0.053	0.058
1.800	0.037	0.024	0.024	0.031	0.033	0.040	0.041	0.047	0.053
1.900	0.034	0.021	0.022	0.027	0.030	0.036	0.038	0.043	0.050
2.000	0.032	0.020	0.020	0.025	0.027	0.034	0.033	0.039	
2.100	0.030	0.019	0.019	0.022	0.025				
2.200	0.028	0.017		0.021					
2.300	0.027								

x = Off-axis distance
h = Field half-width
x = 3.0 * x/h (100.0 + depth) / 100.0

18 MV 8 X 8 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.998	1.001	1.001	0.998	1.000	0.998	1.003	1.000	0.999
0.100	0.995	0.998	1.001	0.997	0.995	1.000	1.000	1.000	1.000
0.150	0.995	0.997	1.000	0.998	0.992	0.998	0.993	0.996	0.998
0.200	0.998	0.997	0.999	0.999	0.994	0.995	0.993	0.994	0.997
0.250	0.999	0.998	0.998	0.996	0.995	0.995	0.992	0.993	0.997
0.300	0.999	0.999	0.997	0.995	0.994	0.995	0.994	0.993	0.996
0.350	0.999	0.996	0.997	0.994	0.993	0.994	0.993	0.992	0.996
0.400	0.997	0.994	0.996	0.992	0.993	0.992	0.990	0.991	0.989
0.450	0.997	0.996	0.995	0.990	0.991	0.988	0.989	0.988	0.984
0.500	0.998	0.995	0.994	0.987	0.989	0.983	0.986	0.983	0.984
0.550	0.997	0.993	0.990	0.984	0.982	0.982	0.981	0.978	0.983
0.600	0.995	0.991	0.985	0.977	0.975	0.977	0.976	0.972	0.976
0.650	0.992	0.985	0.977	0.968	0.969	0.969	0.968	0.962	0.966
0.700	0.987	0.974	0.964	0.956	0.958	0.956	0.955	0.951	0.955
0.750	0.976	0.957	0.947	0.939	0.939	0.935	0.938	0.933	0.939
0.800	0.956	0.933	0.919	0.913	0.911	0.908	0.913	0.906	0.911
0.820	0.943	0.915	0.904	0.895	0.896	0.895	0.898	0.891	0.898
0.840	0.928	0.896	0.882	0.877	0.876	0.876	0.880	0.876	0.877
0.860	0.903	0.870	0.860	0.852	0.854	0.856	0.857	0.849	0.856
0.880	0.877	0.838	0.828	0.823	0.822	0.825	0.829	0.820	0.830
0.900	0.835	0.804	0.790	0.788	0.790	0.789	0.793	0.791	0.789
0.920	0.784	0.751	0.748	0.741	0.740	0.746	0.749	0.745	0.748
0.940	0.731	0.699	0.689	0.693	0.689	0.694	0.699	0.693	0.699
0.950	0.694	0.671	0.660	0.662	0.661	0.668	0.669	0.667	0.669
0.960	0.657	0.637	0.630	0.629	0.629	0.639	0.639	0.641	0.638
0.970	0.620	0.602	0.598	0.597	0.598	0.606	0.609	0.613	0.607
0.980	0.584	0.568	0.563	0.565	0.566	0.574	0.578	0.580	0.576
0.990	0.547	0.534	0.529	0.533	0.535	0.542	0.546	0.548	0.546
1.000	0.510	0.500	0.495	0.501	0.503	0.509	0.514	0.516	0.517
1.010	0.473	0.467	0.460	0.468	0.472	0.478	0.482	0.483	0.488
1.020	0.437	0.435	0.430	0.436	0.440	0.448	0.451	0.451	0.459
1.030	0.400	0.402	0.400	0.404	0.409	0.417	0.422	0.420	0.431
1.040	0.363	0.369	0.371	0.375	0.380	0.386	0.393	0.395	0.402
1.050	0.336	0.337	0.341	0.350	0.355	0.360	0.364	0.370	0.374
1.060	0.311	0.313	0.312	0.325	0.330	0.336	0.335	0.344	0.352
1.070	0.285	0.290	0.291	0.300	0.305	0.312	0.314	0.319	0.331
1.080	0.260	0.267	0.271	0.275	0.280	0.287	0.293	0.294	0.310
1.100	0.216	0.221	0.230	0.239	0.244	0.248	0.251	0.254	0.267
1.150	0.147	0.149	0.158	0.165	0.173	0.175	0.182	0.181	0.197
1.200	0.110	0.105	0.113	0.121	0.130	0.131	0.142	0.140	0.153
1.300	0.076	0.063	0.068	0.076	0.086	0.087	0.097	0.099	0.110

18 MV 8 X 8 cm Open Field (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.065	0.047	0.050	0.057	0.065	0.067	0.078	0.083	0.091
1.500	0.060	0.038	0.041	0.045	0.054	0.054	0.067	0.064	0.079
1.600	0.055	0.033	0.034	0.038	0.047	0.047	0.059	0.054	0.071
1.700	0.050	0.029	0.030	0.033	0.042	0.041	0.052	0.048	0.063
1.800	0.046	0.027	0.027	0.029	0.038	0.036	0.048	0.042	0.057
1.900	0.043	0.025	0.025	0.026	0.035	0.033	0.044	0.038	0.053
2.000	0.040	0.023	0.023	0.024	0.032	0.029	0.039	0.035	0.044
2.100	0.037	0.021	0.021	0.022	0.029				
2.200	0.034		0.019						

x = Off-axis distance
h = Field half-width
x = 4.0 * x/h (100.0 + depth) / 100.0

18 MV 10 X 10 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.000	0.999	0.999	0.997	1.001	1.002	0.999	1.002	0.997
0.100	0.999	0.999	0.997	0.997	1.001	1.000	0.999	1.002	0.995
0.150	0.999	0.998	0.999	0.994	1.002	1.000	0.998	0.997	0.994
0.200	0.998	0.997	0.999	0.996	0.999	0.999	0.998	0.995	0.992
0.250	0.996	0.998	0.997	0.992	0.998	0.996	0.997	0.995	0.992
0.300	0.996	0.998	0.999	0.990	0.998	0.997	0.995	0.996	0.991
0.350	0.999	0.997	0.999	0.993	0.996	0.996	0.995	0.995	0.992
0.400	0.998	0.996	0.995	0.993	0.993	0.995	0.994	0.991	0.991
0.450	0.997	0.996	0.994	0.990	0.994	0.991	0.988	0.987	0.985
0.500	0.997	0.992	0.995	0.988	0.989	0.987	0.984	0.985	0.980
0.550	0.998	0.989	0.992	0.986	0.986	0.983	0.984	0.980	0.977
0.600	0.997	0.990	0.988	0.981	0.983	0.979	0.979	0.972	0.974
0.650	0.992	0.987	0.983	0.976	0.976	0.973	0.969	0.964	0.967
0.700	0.991	0.981	0.976	0.968	0.967	0.965	0.962	0.957	0.957
0.750	0.986	0.973	0.962	0.955	0.953	0.950	0.949	0.946	0.943
0.800	0.970	0.953	0.941	0.934	0.935	0.930	0.926	0.923	0.925
0.820	0.962	0.941	0.930	0.919	0.922	0.919	0.914	0.911	0.913
0.840	0.948	0.925	0.914	0.903	0.908	0.903	0.899	0.893	0.901
0.860	0.933	0.905	0.893	0.884	0.885	0.884	0.879	0.873	0.881
0.880	0.907	0.878	0.866	0.858	0.859	0.859	0.856	0.848	0.852
0.900	0.876	0.845	0.830	0.826	0.821	0.824	0.820	0.811	0.820
0.920	0.825	0.798	0.784	0.778	0.776	0.780	0.778	0.774	0.768
0.940	0.765	0.737	0.726	0.722	0.718	0.719	0.721	0.714	0.717
0.950	0.732	0.707	0.690	0.688	0.687	0.686	0.693	0.681	0.683
0.960	0.688	0.665	0.655	0.650	0.649	0.653	0.656	0.648	0.645
0.970	0.644	0.624	0.619	0.612	0.611	0.615	0.618	0.614	0.607
0.980	0.600	0.583	0.577	0.574	0.573	0.577	0.580	0.577	0.569
0.990	0.557	0.541	0.535	0.535	0.535	0.539	0.541	0.538	0.531
1.000	0.513	0.500	0.492	0.495	0.498	0.501	0.501	0.499	0.494
1.010	0.469	0.459	0.450	0.455	0.460	0.462	0.461	0.460	0.457
1.020	0.425	0.417	0.414	0.415	0.422	0.423	0.422	0.421	0.421
1.030	0.381	0.376	0.378	0.383	0.389	0.385	0.389	0.391	0.384
1.040	0.348	0.344	0.342	0.351	0.357	0.354	0.355	0.361	0.352
1.050	0.316	0.312	0.308	0.319	0.325	0.323	0.321	0.331	0.327
1.060	0.284	0.281	0.283	0.288	0.294	0.292	0.295	0.301	0.302
1.070	0.252	0.250	0.259	0.266	0.271	0.267	0.271	0.272	0.276
1.080	0.232	0.229	0.234	0.243	0.248	0.246	0.247	0.256	0.251
1.100	0.195	0.190	0.196	0.201	0.207	0.204	0.211	0.225	0.220
1.150	0.135	0.122	0.132	0.137	0.146	0.145	0.152	0.162	0.164
1.200	0.108	0.088	0.095	0.101	0.112	0.110	0.122	0.122	0.135
1.300	0.085	0.059	0.062	0.068	0.079	0.080	0.093	0.090	0.104

18 MV 10 X 10 cm Open Field (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.074	0.047	0.048	0.054	0.065	0.065	0.077	0.075	0.092
1.500	0.068	0.041	0.041	0.045	0.056	0.055	0.067	0.064	0.081
1.600	0.062	0.036	0.036	0.039	0.048	0.048	0.057	0.056	0.067
1.700	0.057	0.033	0.032		0.043				
1.800	0.052	0.030							

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (100.0 + depth) / 100.0

18 MV 12 X 12 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.997	0.999	0.999	0.996	1.000	0.999	0.998	0.997	1.000
0.100	0.995	0.996	0.999	0.995	0.998	0.995	0.995	0.996	1.000
0.150	0.996	0.996	1.000	0.996	0.998	0.995	0.994	0.993	0.999
0.200	0.997	0.995	0.999	0.994	0.999	0.992	0.994	0.990	0.994
0.250	0.997	0.996	0.999	0.995	0.997	0.994	0.993	0.990	0.995
0.300	0.999	0.996	0.999	0.995	0.996	0.991	0.993	0.988	0.989
0.350	0.997	0.994	0.999	0.993	0.995	0.989	0.991	0.985	0.983
0.400	0.996	0.994	0.999	0.991	0.993	0.988	0.989	0.981	0.981
0.450	0.996	0.996	0.995	0.990	0.991	0.985	0.988	0.982	0.980
0.500	0.997	0.994	0.995	0.989	0.988	0.983	0.982	0.979	0.976
0.550	0.997	0.995	0.994	0.986	0.985	0.980	0.978	0.972	0.972
0.600	0.995	0.993	0.992	0.982	0.980	0.974	0.973	0.966	0.965
0.650	0.994	0.988	0.990	0.979	0.973	0.970	0.966	0.960	0.958
0.700	0.992	0.986	0.983	0.972	0.968	0.962	0.962	0.954	0.949
0.750	0.991	0.977	0.975	0.962	0.956	0.952	0.951	0.945	0.940
0.800	0.984	0.967	0.960	0.949	0.939	0.934	0.936	0.929	0.925
0.820	0.979	0.960	0.950	0.939	0.932	0.926	0.926	0.919	0.918
0.840	0.972	0.950	0.938	0.925	0.918	0.913	0.916	0.908	0.904
0.860	0.959	0.934	0.918	0.908	0.904	0.899	0.898	0.895	0.888
0.880	0.945	0.913	0.895	0.888	0.878	0.876	0.878	0.871	0.865
0.900	0.915	0.878	0.864	0.855	0.853	0.848	0.843	0.845	0.834
0.920	0.876	0.838	0.818	0.814	0.803	0.803	0.804	0.796	0.790
0.940	0.807	0.772	0.761	0.759	0.750	0.747	0.739	0.742	0.727
0.950	0.773	0.739	0.721	0.723	0.711	0.714	0.706	0.700	0.690
0.960	0.721	0.694	0.679	0.681	0.667	0.670	0.667	0.658	0.654
0.970	0.669	0.646	0.638	0.638	0.624	0.626	0.621	0.616	0.611
0.980	0.617	0.598	0.592	0.592	0.580	0.582	0.574	0.571	0.567
0.990	0.566	0.549	0.542	0.543	0.535	0.537	0.528	0.524	0.523
1.000	0.514	0.500	0.492	0.493	0.488	0.491	0.483	0.477	0.480
1.010	0.462	0.451	0.443	0.446	0.441	0.444	0.440	0.430	0.440
1.020	0.411	0.402	0.399	0.404	0.395	0.397	0.397	0.391	0.400
1.030	0.372	0.362	0.356	0.361	0.355	0.356	0.354	0.354	0.360
1.040	0.336	0.323	0.313	0.320	0.323	0.324	0.323	0.318	0.329
1.050	0.299	0.285	0.281	0.289	0.291	0.291	0.294	0.281	0.300
1.060	0.268	0.252	0.252	0.258	0.259	0.259	0.266	0.261	0.272
1.070	0.245	0.227	0.222	0.227	0.231	0.233	0.238	0.240	0.246
1.080	0.223	0.202	0.199	0.206	0.214	0.215	0.220	0.219	0.229
1.100	0.186	0.162	0.163	0.168	0.178	0.180	0.188	0.190	0.195
1.150	0.137	0.103	0.109	0.115	0.124	0.129	0.137	0.142	0.148
1.200	0.117	0.077	0.082	0.088	0.100	0.104	0.112	0.116	0.124
1.300	0.099	0.056	0.059	0.064	0.074	0.079	0.086	0.091	0.098

18 MV 12 X 12 cm Open Field (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.088	0.047	0.048	0.052	0.061	0.065	0.072	0.075	0.084
1.500	0.080	0.042	0.041	0.044	0.052	0.056	0.062	0.065	
1.600	0.071	0.037	0.034						

x = Off-axis distance
h = Field half-width
x = 6.0 * x/h (100.0 + depth) / 100.0

18 MV 14 X 14 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.998	0.997	0.999	1.000	0.997	0.997	0.997	0.997	0.999
0.100	0.997	0.998	0.999	0.998	0.997	0.995	0.997	0.996	0.996
0.150	0.996	0.997	0.999	0.997	0.996	0.994	0.998	0.995	0.995
0.200	0.997	0.997	0.998	0.997	0.998	0.994	1.000	0.992	0.992
0.250	0.999	0.999	0.999	0.997	0.997	0.991	1.001	0.989	0.995
0.300	1.000	0.998	0.998	0.995	0.997	0.990	1.001	0.989	0.987
0.350	1.001	0.996	0.999	0.996	0.994	0.991	0.999	0.986	0.983
0.400	1.000	0.995	0.997	0.994	0.993	0.989	0.994	0.987	0.982
0.450	1.000	0.994	0.996	0.991	0.992	0.985	0.989	0.985	0.979
0.500	1.001	0.995	0.995	0.991	0.989	0.983	0.985	0.982	0.978
0.550	0.999	0.995	0.993	0.989	0.985	0.980	0.980	0.977	0.969
0.600	0.997	0.993	0.993	0.987	0.983	0.975	0.977	0.970	0.963
0.650	0.997	0.992	0.990	0.983	0.979	0.972	0.973	0.966	0.958
0.700	0.998	0.991	0.986	0.979	0.973	0.965	0.966	0.958	0.952
0.750	0.996	0.988	0.983	0.972	0.966	0.958	0.959	0.949	0.944
0.800	0.994	0.981	0.975	0.962	0.955	0.946	0.947	0.935	0.931
0.820	0.990	0.975	0.968	0.955	0.946	0.939	0.939	0.928	0.922
0.840	0.986	0.967	0.957	0.945	0.935	0.931	0.930	0.918	0.911
0.860	0.977	0.957	0.944	0.932	0.922	0.916	0.914	0.906	0.896
0.880	0.967	0.938	0.921	0.914	0.901	0.897	0.892	0.882	0.876
0.900	0.941	0.913	0.896	0.884	0.876	0.865	0.866	0.853	0.849
0.920	0.910	0.872	0.846	0.846	0.828	0.820	0.816	0.816	0.811
0.940	0.844	0.815	0.792	0.777	0.773	0.758	0.757	0.752	0.749
0.950	0.804	0.770	0.747	0.738	0.727	0.718	0.715	0.715	0.715
0.960	0.764	0.724	0.696	0.699	0.682	0.670	0.673	0.675	0.673
0.970	0.716	0.679	0.645	0.646	0.636	0.622	0.629	0.623	0.626
0.980	0.653	0.622	0.594	0.590	0.586	0.574	0.577	0.571	0.578
0.990	0.590	0.561	0.539	0.534	0.532	0.523	0.525	0.519	0.530
1.000	0.527	0.500	0.484	0.479	0.478	0.471	0.473	0.473	0.481
1.010	0.469	0.439	0.429	0.431	0.425	0.420	0.427	0.427	0.432
1.020	0.421	0.390	0.377	0.383	0.383	0.376	0.382	0.380	0.389
1.030	0.373	0.344	0.338	0.335	0.342	0.337	0.337	0.344	0.351
1.040	0.326	0.299	0.298	0.295	0.301	0.299	0.302	0.311	0.312
1.050	0.284	0.254	0.259	0.265	0.267	0.263	0.274	0.277	0.281
1.060	0.260	0.226	0.226	0.236	0.243	0.241	0.246	0.250	0.258
1.070	0.237	0.202	0.206	0.207	0.218	0.219	0.220	0.229	0.234
1.080	0.214	0.179	0.185	0.188	0.193	0.197	0.204	0.209	0.215
1.100	0.183	0.142	0.148	0.157	0.166	0.169	0.172	0.180	0.187
1.150	0.144	0.098	0.102	0.109	0.119	0.124	0.132	0.135	0.144
1.200	0.126	0.077	0.079	0.087	0.097	0.103	0.110	0.116	0.123
1.300	0.110	0.059	0.059	0.065	0.075	0.079	0.088	0.091	0.099

18 MV 14 X 14 cm Open Field (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.098	0.051	0.049	0.054	0.063	0.065	0.073	0.075	0.083
1.500	0.087	0.045	0.042	0.045		0.057			

x = Off-axis distance
h = Field half-width
x = 7.0 * x/h (100.0 + depth) / 100.0

18 MV 16 X 16 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.999	0.999	0.997	0.998	0.996	1.000	0.999	0.998	0.997
0.100	0.998	0.998	0.997	0.996	0.996	0.998	0.997	0.997	0.997
0.150	0.999	0.998	0.997	0.994	0.995	0.999	0.997	0.997	0.992
0.200	0.998	0.997	0.997	0.996	0.994	0.998	0.995	0.993	0.992
0.250	0.998	0.999	0.996	0.996	0.995	0.997	0.995	0.997	0.992
0.300	0.997	0.998	0.997	0.996	0.994	0.995	0.995	0.995	0.989
0.350	0.998	0.996	0.995	0.994	0.991	0.994	0.989	0.991	0.986
0.400	0.999	0.996	0.996	0.992	0.992	0.994	0.990	0.990	0.983
0.450	0.996	0.996	0.996	0.991	0.989	0.989	0.984	0.985	0.981
0.500	0.994	0.995	0.996	0.988	0.986	0.988	0.982	0.981	0.977
0.550	0.994	0.997	0.995	0.986	0.986	0.984	0.980	0.977	0.970
0.600	0.994	0.997	0.994	0.985	0.983	0.980	0.978	0.975	0.965
0.650	0.993	0.996	0.995	0.983	0.980	0.977	0.972	0.971	0.959
0.700	0.995	0.997	0.995	0.982	0.979	0.976	0.970	0.966	0.954
0.750	0.995	0.995	0.991	0.979	0.972	0.968	0.962	0.958	0.946
0.800	0.993	0.991	0.985	0.970	0.961	0.956	0.950	0.950	0.935
0.820	0.992	0.988	0.978	0.965	0.956	0.951	0.944	0.941	0.927
0.840	0.988	0.984	0.970	0.957	0.948	0.943	0.937	0.932	0.920
0.860	0.982	0.976	0.959	0.944	0.937	0.931	0.925	0.921	0.910
0.880	0.970	0.959	0.942	0.927	0.920	0.914	0.908	0.907	0.894
0.900	0.951	0.938	0.920	0.901	0.894	0.889	0.885	0.882	0.870
0.920	0.923	0.893	0.877	0.862	0.860	0.850	0.849	0.847	0.837
0.940	0.865	0.839	0.818	0.809	0.801	0.799	0.797	0.799	0.788
0.950	0.829	0.789	0.775	0.767	0.769	0.759	0.760	0.761	0.753
0.960	0.793	0.740	0.733	0.717	0.718	0.719	0.723	0.722	0.711
0.970	0.733	0.691	0.682	0.668	0.666	0.672	0.669	0.676	0.668
0.980	0.668	0.630	0.620	0.613	0.615	0.616	0.614	0.620	0.616
0.990	0.603	0.565	0.557	0.553	0.556	0.560	0.559	0.565	0.562
1.000	0.540	0.500	0.496	0.492	0.496	0.505	0.504	0.511	0.509
1.010	0.480	0.438	0.440	0.435	0.437	0.450	0.449	0.457	0.458
1.020	0.421	0.387	0.385	0.386	0.388	0.396	0.396	0.403	0.407
1.030	0.361	0.336	0.329	0.337	0.341	0.348	0.356	0.361	0.364
1.040	0.323	0.284	0.290	0.289	0.294	0.311	0.315	0.321	0.326
1.050	0.289	0.250	0.255	0.260	0.262	0.273	0.278	0.282	0.289
1.060	0.256	0.221	0.220	0.230	0.235	0.242	0.253	0.257	0.263
1.070	0.228	0.193	0.193	0.201	0.208	0.220	0.228	0.233	0.238
1.080	0.213	0.168	0.175	0.182	0.189	0.199	0.206	0.210	0.217
1.100	0.183	0.140	0.139	0.150	0.160	0.169	0.177	0.182	0.188
1.150	0.150	0.097	0.099	0.108	0.120	0.126	0.135	0.140	0.148
1.200	0.135	0.080	0.079	0.087	0.099	0.106	0.113	0.118	0.127
1.300	0.118	0.064	0.061	0.067	0.077	0.082	0.090	0.094	0.104

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (100.0 + depth) / 100.0

18 MV 18 X 18 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.999	0.998	0.998	0.996	1.000	0.997	0.996	0.998	0.999
0.100	1.000	0.997	0.996	0.997	1.000	0.997	0.998	0.996	0.997
0.150	1.000	0.996	0.997	0.995	0.999	0.995	0.998	0.996	0.992
0.200	1.001	0.996	0.999	0.996	0.998	0.992	0.998	0.994	0.991
0.250	1.002	0.996	1.000	0.995	1.000	0.992	0.996	0.995	0.989
0.300	1.001	0.995	0.999	0.995	0.997	0.991	0.994	0.992	0.983
0.350	1.003	0.997	0.997	0.995	0.997	0.990	0.993	0.987	0.979
0.400	1.004	0.997	0.997	0.992	0.995	0.988	0.991	0.983	0.979
0.450	1.004	0.996	0.997	0.992	0.994	0.986	0.988	0.983	0.977
0.500	1.002	0.998	0.998	0.993	0.990	0.983	0.986	0.979	0.974
0.550	1.004	0.998	0.997	0.993	0.992	0.981	0.984	0.975	0.970
0.600	1.004	1.000	0.998	0.992	0.987	0.980	0.982	0.973	0.968
0.650	1.005	1.001	1.000	0.993	0.988	0.977	0.978	0.969	0.964
0.700	1.007	1.002	1.001	0.991	0.984	0.974	0.975	0.964	0.956
0.750	1.005	1.001	0.998	0.987	0.980	0.969	0.968	0.958	0.949
0.800	1.001	1.000	0.990	0.978	0.969	0.960	0.953	0.945	0.938
0.820	0.998	0.996	0.986	0.973	0.961	0.953	0.948	0.939	0.929
0.840	0.994	0.989	0.976	0.965	0.954	0.945	0.940	0.930	0.919
0.860	0.988	0.979	0.965	0.952	0.946	0.934	0.927	0.921	0.909
0.880	0.979	0.964	0.951	0.937	0.929	0.920	0.910	0.905	0.898
0.900	0.963	0.944	0.928	0.918	0.905	0.897	0.891	0.883	0.879
0.920	0.934	0.907	0.891	0.884	0.873	0.865	0.861	0.852	0.852
0.940	0.894	0.849	0.839	0.828	0.824	0.818	0.810	0.806	0.804
0.950	0.847	0.806	0.792	0.[illegible]	[illegible]33	0.779	0.780	0.769	0.772
0.960	0.800	0.764	0.745	0.749	0.738	0.739	0.733	0.733	0
0.970	0.753	0.703	0.695	0.690	0.692	0.688	0.[illegible]	0.679	[illegible]
0.980	0.679	0.635	0.626	0.630	0.628	0.626	0.629	0.624	0.623
0.990	0.605	0.567	0.557	0.567	0.564	0.565	0.566	0.567	0.558
1.000	0.531	0.500	0.489	0.500	0.501	0.503	0.503	0.504	0.493
1.010	0.468	0.434	0.427	0.433	0.440	0.440	0.445	0.442	0.435
1.020	0.408	0.368	0.366	0.378	0.380	0.382	0.390	0.389	0.384
1.030	0.348	0.315	0.310	0.328	0.330	0.336	0.335	0.337	0.334
1.040	0.306	0.273	0.272	0.278	0.291	0.291	0.298	0.294	0.294
1.050	0.275	0.231	0.234	0.246	0.251	0.255	0.261	0.261	0.265
1.060	0.243	0.199	0.202	0.216	0.223	0.229	0.231	0.227	0.236
1.070	0.222	0.178	0.181	0.186	0.200	0.202	0.209	0.208	0.215
1.080	0.208	0.158	0.161	0.171	0.177	0.185	0.187	0.190	0.201
1.100	0.184	0.130	0.133	0.140	0.152	0.156	0.162	0.164	0.175
1.150	0.158	0.095	0.094	0.104	0.113	0.118	0.126	0.130	0.138
1.200	0.146	0.081	0.077	0.085	0.095	0.100	0.107	0.112	0.122
1.300	0.128	0.066	0.060	0.066	0.075	0.078	0.086	0.090	0.099

x = Off-axis distance
h = Field half-width
x = 9.0 * x/h (100.0 + depth) / 100.0

18 MV 20 X 20 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.999	0.998	0.996	0.996	0.998	0.999	0.997	0.998	0.997
0.100	1.001	0.998	0.997	0.996	0.998	0.997	0.998	0.996	0.995
0.150	0.999	0.997	0.996	0.994	0.998	0.996	0.999	0.994	0.994
0.200	1.001	0.997	0.997	0.996	0.999	0.994	0.998	0.993	0.994
0.250	1.001	0.999	0.997	0.994	0.999	0.995	0.996	0.990	0.987
0.300	1.001	0.999	0.997	0.995	0.996	0.993	0.994	0.991	0.986
0.350	1.003	0.997	0.997	0.993	0.995	0.991	0.994	0.987	0.980
0.400	1.004	0.998	0.997	0.993	0.993	0.990	0.990	0.984	0.978
0.450	1.005	0.997	0.996	0.991	0.990	0.988	0.988	0.981	0.974
0.500	1.006	1.000	0.998	0.993	0.992	0.985	0.985	0.977	0.972
0.550	1.008	1.001	1.000	0.995	0.991	0.987	0.984	0.976	0.971
0.600	1.010	1.003	1.003	0.997	0.992	0.985	0.984	0.975	0.968
0.650	1.010	1.005	1.005	0.997	0.991	0.983	0.980	0.973	0.961
0.700	1.009	1.006	1.005	0.994	0.987	0.981	0.975	0.965	0.956
0.750	1.006	1.004	0.997	0.989	0.980	0.970	0.964	0.954	0.947
0.800	0.996	0.995	0.988	0.978	0.968	0.957	0.952	0.940	0.932
0.820	0.993	0.991	0.982	0.971	0.961	0.951	0.944	0.934	0.924
0.840	0.989	0.986	0.974	0.963	0.952	0.943	0.935	0.927	0.915
0.860	0.982	0.979	0.965	0.953	0.942	0.932	0.927	0.917	0.905
0.880	0.974	0.968	0.951	0.941	0.929	0.919	0.912	0.905	0.891
0.900	0.960	0.951	0.928	0.922	0.907	0.899	0.891	0.887	0.871
0.920	0.935	0.922	0.893	0.892	0.876	0.871	0.862	0.856	0.838
0.940	0.895	0.868	0.838	0.846	0.825	0.827	0.812	0.810	0.787
0.950	0.846	0.836	0.795	0.807	0.790	0.790	0.776	0.766	0.748
0.960	0.797	0.782	0.752	0.767	0.744	0.743	0.719	0.722	0.709
0.970	0.743	0.718	0.683	0.709	0.683	0.696	0.663	0.672	0.647
0.980	0.666	0.655	0.613	0.642	0.622	0.632	0.600	0.604	0.585
0.990	0.588	0.578	0.542	0.573	0.551	0.560	0.529	0.535	0.522
1.000	0.515	0.500	0.470	0.501	0.477	0.487	0.458	0.470	0.459
1.010	0.449	0.425	0.398	0.428	0.410	0.424	0.396	0.409	0.397
1.020	0.383	0.366	0.339	0.364	0.352	0.364	0.344	0.349	0.347
1.030	0.333	0.306	0.289	0.313	0.294	0.305	0.292	0.303	0.304
1.040	0.298	0.256	0.240	0.261	0.257	0.266	0.256	0.268	0.262
1.050	0.263	0.224	0.210	0.229	0.222	0.235	0.229	0.233	0.239
1.060	0.240	0.191	0.184	0.199	0.194	0.204	0.203	0.211	0.216
1.070	0.224	0.168	0.159	0.174	0.176	0.184	0.186	0.193	0.197
1.080	0.208	0.152	0.145	0.158	0.158	0.170	0.173	0.176	0.184
1.100	0.191	0.125	0.120	0.131	0.137	0.145	0.151	0.157	0.163
1.150	0.167	0.094	0.088	0.098	0.106	0.115	0.120	0.128	0.135
1.200	0.154	0.081	0.074	0.083	0.092	0.099	0.105	0.109	0.119
1.300	0.132	0.066	0.059	0.066	0.073	0.078	0.084	0.086	

x = Off-axis distance
h = Field half-width
x = 10.0 * x/h (100.0 + depth) / 100.0

18 MV 22 X 22 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.998	0.998	0.999	0.998	0.998	0.996	1.001	0.996	1.000
0.100	1.000	0.996	0.998	0.996	0.998	0.996	0.999	0.996	0.998
0.150	0.999	0.996	0.999	0.995	0.998	0.994	0.999	0.996	0.999
0.200	1.000	0.998	1.000	0.995	0.998	0.995	0.998	0.993	0.995
0.250	1.001	0.996	0.999	0.996	0.997	0.994	0.999	0.992	0.990
0.300	1.003	0.996	1.000	0.994	0.996	0.993	0.997	0.991	0.986
0.350	1.003	0.996	0.999	0.994	0.995	0.992	0.994	0.986	0.984
0.400	1.003	0.997	1.000	0.994	0.993	0.993	0.993	0.985	0.983
0.450	1.007	0.998	1.001	0.993	0.992	0.988	0.992	0.981	0.984
0.500	1.007	1.002	1.004	0.996	0.994	0.989	0.993	0.983	0.980
0.550	1.009	1.005	1.008	0.999	0.994	0.990	0.991	0.981	0.976
0.600	1.010	1.009	1.010	1.001	0.994	0.990	0.988	0.978	0.973
0.650	1.008	1.011	1.009	0.999	0.992	0.987	0.984	0.973	0.968
0.700	1.003	1.007	1.006	0.993	0.988	0.977	0.974	0.966	0.957
0.750	0.998	1.000	1.000	0.989	0.978	0.970	0.967	0.953	0.945
0.800	0.989	0.995	0.990	0.978	0.966	0.957	0.952	0.941	0.930
0.820	0.987	0.992	0.986	0.972	0.961	0.951	0.945	0.934	0.923
0.840	0.983	0.989	0.980	0.966	0.955	0.944	0.939	0.925	0.915
0.860	0.980	0.983	0.972	0.959	0.946	0.936	0.931	0.916	0.906
0.880	0.974	0.974	0.962	0.947	0.933	0.923	0.917	0.907	0.895
0.900	0.964	0.959	0.942	0.929	0.915	0.906	0.896	0.884	0.877
0.920	0.945	0.936	0.912	0.904	0.887	0.878	0.864	0.852	0.846
0.940	0.901	0.889	0.860	0.853	0.829	0.831	0.811	0.803	0.794
0.950	0.876	0.854	0.820	0.826	0.798	0.783	0.767	0.765	0.764
0.960	0.819	0.800	0.761	0.767	0.735	0.732	0.724	0.726	0.706
0.970	0.760	0.746	0.701	0.704	0.667	0.677	0.654	0.659	0.649
0.980	0.692	0.667	0.634	0.640	0.599	0.601	0.583	0.592	0.582
0.990	0.606	0.582	0.548	0.557	0.521	0.524	0.513	0.524	0.508
1.000	0.520	0.500	0.463	0.473	0.444	0.453	0.444	0.455	0.439
1.010	0.449	0.423	0.386	0.391	0.372	0.389	0.376	0.385	0.381
1.020	0.385	0.346	0.327	0.336	0.321	0.325	0.323	0.336	0.323
1.030	0.324	0.291	0.269	0.281	0.270	0.280	0.280	0.289	0.286
1.040	0.291	0.244	0.219	0.229	0.229	0.245	0.236	0.250	0.253
1.050	0.258	0.203	0.193	0.204	0.205	0.210	0.214	0.226	0.226
1.060	0.236	0.178	0.167	0.178	0.181	0.191	0.193	0.201	0.209
1.070	0.221	0.154	0.144	0.155	0.163	0.175	0.176	0.185	0.192
1.080	0.205	0.139	0.133	0.144	0.151	0.159	0.164	0.171	0.180
1.100	0.191	0.116	0.111	0.121	0.131	0.141	0.145	0.152	0.160
1.150	0.171	0.093	0.086	0.096	0.104	0.113	0.119	0.124	0.135
1.200	0.158	0.081	0.074	0.081	0.090	0.097	0.103	0.108	0.119
1.300	0.135	0.067	0.059	0.065	0.069	0.075			

x = Off-axis distance
h = Field half-width
x = 11.0 * x/h (100.0 + depth) / 100.0

18 MV 24 X 24 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.996	0.995	0.997	0.996	0.996	0.995	0.997	0.997	0.995
0.100	0.993	0.990	0.994	0.993	0.993	0.993	0.994	0.993	0.993
0.150	0.995	0.991	0.993	0.992	0.991	0.991	0.991	0.993	0.992
0.200	0.993	0.990	0.992	0.990	0.991	0.989	0.990	0.989	0.989
0.250	0.992	0.990	0.992	0.988	0.987	0.988	0.986	0.985	0.988
0.300	0.994	0.990	0.992	0.988	0.988	0.985	0.984	0.983	0.985
0.350	0.993	0.991	0.994	0.988	0.987	0.983	0.983	0.981	0.984
0.400	0.996	0.994	0.995	0.986	0.987	0.984	0.982	0.979	0.980
0.450	0.999	0.996	0.999	0.989	0.990	0.983	0.984	0.979	0.978
0.500	1.001	0.999	1.000	0.992	0.989	0.984	0.986	0.977	0.979
0.550	1.003	1.001	1.004	0.995	0.990	0.985	0.982	0.976	0.974
0.600	1.001	1.002	1.006	0.994	0.989	0.981	0.979	0.974	0.969
0.650	0.997	0.999	1.003	0.990	0.985	0.974	0.974	0.965	0.957
0.700	0.993	0.996	0.997	0.984	0.980	0.967	0.964	0.954	0.949
0.750	0.986	0.992	0.993	0.979	0.971	0.958	0.953	0.946	0.935
0.800	0.981	0.988	0.987	0.971	0.960	0.950	0.942	0.932	0.923
0.820	0.980	0.986	0.984	0.968	0.956	0.945	0.938	0.927	0.918
0.840	0.977	0.983	0.979	0.964	0.952	0.938	0.930	0.921	0.911
0.860	0.973	0.980	0.973	0.957	0.945	0.929	0.921	0.914	0.901
0.880	0.966	0.973	0.966	0.946	0.935	0.919	0.912	0.903	0.892
0.900	0.958	0.963	0.946	0.931	0.916	0.906	0.896	0.889	0.875
0.920	0.936	0.940	0.915	0.906	0.886	0.883	0.869	0.868	0.850
0.940	0.900	0.891	0.865	0.852	0.846	0.837	0.828	0.829	0.809
0.950	0.851	0.854	0.819	0.820	0.797	0.811	0.784	0.798	0.778
0.960	0.803	0.816	0.753	0.775	0.748	0.765	0.741	0.755	0.743
0.970	0.755	0.748	0.688	0.706	0.698	0.706	0.685	0.711	0.681
0.980	0.674	0.665	0.617	0.638	0.618	0.647	0.612	0.646	0.618
0.990	0.588	0.581	0.534	0.567	0.537	0.575	0.538	0.573	0.551
1.000	0.502	0.500	0.450	0.490	0.458	0.498	0.468	0.501	0.479
1.010	0.430	0.426	0.368	0.413	0.395	0.420	0.403	0.435	0.407
1.020	0.377	0.352	0.317	0.339	0.332	0.361	0.337	0.370	0.353
1.030	0.323	0.279	0.266	0.295	0.269	0.309	0.294	0.313	0.301
1.040	0.271	0.241	0.215	0.250	0.239	0.256	0.256	0.276	0.259
1.050	0.252	0.209	0.188	0.206	0.209	0.228	0.219	0.240	0.234
1.060	0.234	0.176	0.167	0.186	0.180	0.203	0.201	0.214	0.209
1.070	0.215	0.154	0.146	0.167	0.167	0.179	0.184	0.197	0.195
1.080	0.204	0.142	0.131	0.148	0.154	0.166	0.168	0.180	0.183
1.100	0.190	0.119	0.113	0.128	0.134	0.144	0.152	0.159	0.167
1.150	0.171	0.097	0.088	0.100	0.109	0.117	0.126	0.130	0.142
1.200	0.157	0.085	0.076	0.086	0.095	0.101	0.109	0.114	0.130
1.300	0.135	0.070	0.062	0.068	0.076	0.080	0.091		

x = Off-axis distance
h = Field half-width
x = 12.0 * x/h (100.0 + depth) / 100.0

18 MV 26 X 26 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.997	0.997	0.993	0.996	0.995	0.996	0.997	0.996	0.998
0.100	0.996	0.994	0.992	0.993	0.991	0.994	0.993	0.991	0.996
0.150	0.996	0.994	0.992	0.993	0.991	0.992	0.993	0.989	0.995
0.200	0.995	0.994	0.992	0.991	0.990	0.990	0.990	0.987	0.990
0.250	0.994	0.995	0.991	0.990	0.989	0.988	0.988	0.986	0.989
0.300	0.996	0.995	0.991	0.990	0.990	0.987	0.986	0.983	0.986
0.350	0.997	0.997	0.995	0.991	0.989	0.987	0.985	0.981	0.985
0.400	0.998	0.999	0.996	0.993	0.991	0.987	0.986	0.980	0.985
0.450	1.002	1.004	1.001	0.995	0.993	0.989	0.989	0.980	0.985
0.500	1.002	1.007	1.006	0.998	0.995	0.990	0.992	0.982	0.985
0.550	1.003	1.009	1.008	0.999	0.993	0.989	0.989	0.978	0.979
0.600	0.999	1.007	1.004	0.996	0.992	0.983	0.984	0.971	0.971
0.650	0.994	1.003	1.001	0.992	0.988	0.976	0.972	0.961	0.960
0.700	0.990	0.999	0.997	0.989	0.981	0.970	0.967	0.955	0.951
0.750	0.986	0.998	0.993	0.983	0.974	0.964	0.958	0.944	0.942
0.800	0.980	0.996	0.990	0.979	0.964	0.956	0.948	0.935	0.927
0.820	0.978	0.996	0.989	0.976	0.960	0.952	0.944	0.930	0.922
0.840	0.977	0.994	0.987	0.972	0.956	0.946	0.939	0.924	0.915
0.860	0.975	0.991	0.982	0.966	0.951	0.939	0.931	0.918	0.907
0.880	0.969	0.986	0.973	0.959	0.943	0.931	0.921	0.910	0.897
0.900	0.960	0.974	0.959	0.944	0.929	0.920	0.907	0.897	0.885
0.920	0.948	0.954	0.933	0.920	0.908	0.898	0.886	0.879	0.864
0.940	0.902	0.911	0.879	0.883	0.860	0.859	0.848	0.847	0.827
0.950	0.879	0.878	0.843	0.844	0.825	0.834	0.814	0.819	0.800
0.960	0.814	0.816	0.797	0.805	0.768	0.791	0.779	0.781	0.754
0.970	0.744	0.754	0.715	0.749	0.711	0.733	0.717	0.743	0.696
0.980	0.673	0.687	0.633	0.668	0.637	0.675	0.644	0.670	0.632
0.990	0.592	0.593	0.551	0.586	0.552	0.595	0.570	0.597	0.552
1.000	0.508	0.500	0.465	0.505	0.467	0.510	0.490	0.520	0.471
1.010	0.423	0.409	0.379	0.424	0.398	0.430	0.411	0.440	0.405
1.020	0.361	0.348	0.303	0.344	0.334	0.367	0.345	0.359	0.341
1.030	0.319	0.287	0.258	0.287	0.270	0.305	0.296	0.311	0.293
1.040	0.277	0.226	0.214	0.246	0.238	0.257	0.248	0.262	0.259
1.050	0.245	0.200	0.177	0.205	0.207	0.226	0.221	0.226	0.228
1.060	0.231	0.175	0.159	0.180	0.179	0.196	0.198	0.205	0.212
1.070	0.217	0.150	0.141	0.162	0.166	0.178	0.178	0.183	0.196
1.080	0.204	0.138	0.127	0.144	0.153	0.164	0.168	0.173	0.186
1.100	0.193	0.119	0.110	0.126	0.134	0.143	0.149	0.155	0.171
1.150	0.174	0.097	0.088	0.099	0.108	0.116	0.127	0.130	
1.200	0.160	0.086	0.076	0.085	0.094	0.101	0.113		
1.300	0.136	0.070	0.062	0.068	0.075				

x = Off-axis distance
h = Field half-width
x = 13.0 * x/h (100.0 + depth) / 100.0

18 MV 28 X 28 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.997	1.000	0.997	0.996	0.999	0.997	0.995	0.998	0.997
0.100	0.996	1.000	0.997	0.993	0.995	0.992	0.994	0.997	0.993
0.150	0.998	1.001	0.994	0.992	0.995	0.991	0.995	0.993	0.994
0.200	0.996	0.999	0.993	0.992	0.995	0.988	0.989	0.992	0.993
0.250	0.997	0.999	0.993	0.991	0.993	0.987	0.987	0.990	0.991
0.300	1.000	1.000	0.994	0.993	0.995	0.989	0.988	0.987	0.987
0.350	1.000	1.003	0.995	0.995	0.997	0.989	0.988	0.987	0.985
0.400	1.006	1.008	1.001	0.999	1.000	0.992	0.990	0.986	0.986
0.450	1.008	1.013	1.006	1.007	1.002	0.991	0.991	0.986	0.986
0.500	1.010	1.016	1.010	1.007	1.003	0.993	0.991	0.988	0.981
0.550	1.007	1.014	1.007	1.005	1.001	0.987	0.987	0.979	0.978
0.600	1.000	1.011	1.005	1.000	0.998	0.982	0.981	0.973	0.966
0.650	0.994	1.007	1.001	0.997	0.993	0.977	0.970	0.964	0.953
0.700	0.990	1.008	1.002	0.992	0.986	0.970	0.965	0.955	0.944
0.750	0.986	1.007	1.001	0.990	0.983	0.968	0.958	0.949	0.935
0.800	0.984	1.008	0.999	0.987	0.978	0.960	0.951	0.942	0.928
0.820	0.983	1.008	0.998	0.986	0.975	0.956	0.946	0.937	0.920
0.840	0.980	1.008	0.995	0.983	0.972	0.952	0.942	0.933	0.914
0.860	0.977	1.005	0.990	0.978	0.967	0.947	0.935	0.926	0.907
0.880	0.972	1.000	0.984	0.970	0.957	0.937	0.928	0.916	0.898
0.900	0.962	0.992	0.970	0.959	0.942	0.925	0.914	0.905	0.884
0.920	0.945	0.970	0.945	0.940	0.918	0.904	0.893	0.888	0.863
0.940	0.916	0.930	0.903	0.899	0.875	0.869	0.852	0.856	0.825
0.950	0.870	0.890	0.850	0.868	0.841	0.842	0.824	0.823	0.799
0.960	0.823	0.851	0.794	0.814	0.800	0.806	0.773	0.781	0.752
0.970	0.766	0.776	0.733	0.760	0.723	0.740	0.707	0.729	0.695
0.980	0.671	0.684	0.636	0.681	0.647	0.675	0.636	0.648	0.625
0.990	0.575	0.592	0.539	0.589	0.562	0.588	0.545	0.567	0.540
1.000	0.487	0.500	0.448	0.496	0.472	0.493	0.453	0.484	0.460
1.010	0.418	0.409	0.371	0.417	0.381	0.406	0.382	0.401	0.388
1.020	0.349	0.317	0.294	0.339	0.322	0.340	0.317	0.336	0.317
1.030	0.295	0.268	0.240	0.271	0.264	0.273	0.264	0.285	0.277
1.040	0.269	0.224	0.206	0.234	0.219	0.235	0.233	0.241	0.237
1.050	0.244	0.181	0.171	0.196	0.195	0.205	0.202	0.217	0.217
1.060	0.225	0.164	0.151	0.171	0.171	0.179	0.186	0.193	0.199
1.070	0.216	0.148	0.136	0.154	0.157	0.166	0.172	0.179	0.186
1.080	0.207	0.132	0.122	0.137	0.146	0.152	0.160	0.167	0.176
1.100	0.195	0.118	0.107	0.122	0.130	0.137	0.145	0.151	0.162
1.150	0.177	0.097	0.086	0.098	0.107	0.113	0.122	0.126	0.138
1.200	0.161	0.086	0.075	0.085	0.092	0.098	0.109	0.110	0.123
1.300	0.134	0.070							

x = Off-axis distance
h = Field half-width
x = 14.0 * x/h (100.0 + depth) / 100.0

18 MV 30 X 30 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.997	1.000	0.996	0.994	0.994	0.996	0.994	0.994	0.999
0.100	0.997	0.999	0.994	0.993	0.994	0.994	0.994	0.992	0.998
0.150	0.998	1.000	0.990	0.992	0.992	0.992	0.992	0.990	0.995
0.200	0.999	1.001	0.993	0.988	0.992	0.990	0.988	0.988	0.992
0.250	1.001	1.003	0.992	0.987	0.990	0.989	0.988	0.988	0.992
0.300	1.000	1.003	0.992	0.989	0.991	0.990	0.990	0.986	0.989
0.350	1.003	1.006	0.998	0.994	0.995	0.991	0.991	0.986	0.991
0.400	1.008	1.013	1.004	0.998	0.997	0.996	0.994	0.987	0.991
0.450	1.011	1.017	1.008	1.010	1.001	0.996	0.994	0.988	0.991
0.500	1.007	1.018	1.008	1.004	0.999	0.995	0.992	0.984	0.985
0.550	1.001	1.015	1.006	1.000	0.996	0.989	0.988	0.980	0.976
0.600	0.998	1.011	1.004	0.998	0.993	0.985	0.981	0.971	0.967
0.650	0.994	1.011	1.003	0.995	0.988	0.978	0.976	0.964	0.958
0.700	0.990	1.012	1.003	0.994	0.987	0.976	0.970	0.960	0.953
0.750	0.986	1.012	1.005	0.994	0.986	0.971	0.965	0.952	0.945
0.800	0.985	1.014	1.007	0.992	0.979	0.964	0.958	0.944	0.935
0.820	0.985	1.014	1.006	0.990	0.978	0.962	0.953	0.939	0.928
0.840	0.982	1.014	1.003	0.986	0.973	0.957	0.949	0.935	0.922
0.860	0.978	1.012	0.998	0.981	0.968	0.950	0.941	0.928	0.916
0.880	0.973	1.006	0.989	0.972	0.958	0.942	0.932	0.919	0.906
0.900	0.964	0.997	0.975	0.960	0.944	0.930	0.918	0.903	0.891
0.920	0.948	0.976	0.951	0.940	0.921	0.912	0.896	0.880	0.869
0.940	0.914	0.935	0.908	0.903	0.884	0.877	0.854	0.847	0.833
0.950	0.877	0.906	0.864	0.871	0.843	0.838	0.828	0.822	0.803
0.960	0.840	0.862	0.820	0.836	0.802	0.797	0.772	0.779	0.758
0.970	0.765	0.783	0.738	0.761	0.722	0.732	0.715	0.733	0.704
0.980	0.675	0.703	0.644	0.686	0.633	0.648	0.632	0.649	0.624
0.990	0.585	0.607	0.549	0.594	0.541	0.562	0.539	0.566	0.543
1.000	0.499	0.500	0.454	0.489	0.445	0.469	0.452	0.478	0.458
1.010	0.414	0.393	0.359	0.387	0.349	0.376	0.373	0.390	0.378
1.020	0.338	0.325	0.286	0.320	0.295	0.316	0.302	0.326	0.321
1.030	0.302	0.262	0.235	0.252	0.242	0.260	0.260	0.273	0.268
1.040	0.266	0.205	0.183	0.208	0.206	0.221	0.218	0.234	0.239
1.050	0.240	0.181	0.161	0.181	0.182	0.195	0.198	0.209	0.211
1.060	0.228	0.156	0.141	0.154	0.161	0.172	0.179	0.187	0.196
1.070	0.215	0.139	0.125	0.142	0.150	0.161	0.166	0.174	0.182
1.080	0.207	0.129	0.116	0.131	0.138	0.149	0.156	0.162	0.173
1.100	0.196	0.113	0.102	0.115	0.125	0.134	0.143	0.146	0.158
1.150	0.174	0.094	0.084	0.095	0.103	0.111	0.120	0.123	0.135
1.200	0.161	0.082	0.072	0.082	0.090	0.096	0.105	0.103	0.124

x = Off-axis distance
h = Field half-width
x = 15.0 * x/h (100.0 + depth) / 100.0

18 MV 32 X 32 cm Open Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.996	0.999	0.996	0.992	0.995	0.995	0.993	0.997	0.994
0.100	0.997	0.999	0.995	0.990	0.993	0.990	0.992	0.991	0.993
0.150	0.998	0.998	0.992	0.989	0.991	0.989	0.988	0.988	0.993
0.200	0.998	0.998	0.991	0.986	0.990	0.989	0.989	0.990	0.988
0.250	0.998	1.000	0.995	0.987	0.991	0.989	0.989	0.985	0.987
0.300	1.002	1.002	0.995	0.987	0.993	0.988	0.989	0.985	0.989
0.350	1.007	1.008	0.999	0.993	0.998	0.990	0.993	0.989	0.988
0.400	1.010	1.015	1.009	1.000	1.001	0.996	0.996	0.990	0.989
0.450	1.011	1.018	1.013	1.002	1.004	0.995	0.994	0.987	0.989
0.500	1.005	1.017	1.010	0.998	1.000	0.992	0.989	0.983	0.981
0.550	1.003	1.013	1.008	0.995	0.995	0.987	0.984	0.978	0.972
0.600	0.997	1.011	1.007	0.994	0.993	0.983	0.983	0.972	0.965
0.650	0.996	1.012	1.008	0.995	0.994	0.980	0.978	0.968	0.960
0.700	0.991	1.016	1.010	0.999	0.993	0.977	0.973	0.962	0.953
0.750	0.991	1.019	1.015	1.002	0.992	0.974	0.969	0.956	0.946
0.800	0.987	1.018	1.014	0.997	0.985	0.968	0.961	0.948	0.935
0.820	0.983	1.017	1.010	0.994	0.981	0.964	0.956	0.942	0.929
0.840	0.979	1.015	1.007	0.988	0.976	0.958	0.949	0.935	0.920
0.860	0.976	1.011	1.000	0.981	0.968	0.949	0.939	0.925	0.911
0.880	0.971	1.004	0.992	0.973	0.959	0.941	0.929	0.913	0.898
0.900	0.962	0.996	0.981	0.961	0.945	0.928	0.918	0.899	0.886
0.920	0.949	0.981	0.960	0.943	0.922	0.907	0.896	0.881	0.867
0.940	0.919	0.951	0.918	0.906	0.880	0.873	0.862	0.849	0.832
0.950	0.893	0.913	0.878	0.876	0.853	0.847	0.825	0.827	0.808
0.960	0.854	0.868	0.836	0.822	0.794	0.799	0.788	0.782	0.764
0.970	0.773	0.811	0.740	0.768	0.729	0.749	0.714	0.737	0.714
0.980	0.692	0.709	0.644	0.667	0.641	0.656	0.632	0.654	0.632
0.990	0.598	0.607	0.539	0.562	0.537	0.563	0.539	0.572	0.546
1.000	0.497	0.500	0.429	0.463	0.439	0.468	0.440	0.479	0.454
1.010	0.396	0.392	0.328	0.369	0.356	0.373	0.363	0.387	0.363
1.020	0.344	0.296	0.268	0.285	0.276	0.305	0.297	0.322	0.307
1.030	0.291	0.244	0.208	0.239	0.236	0.251	0.248	0.260	0.254
1.040	0.254	0.192	0.175	0.193	0.196	0.211	0.216	0.227	0.228
1.050	0.237	0.164	0.151	0.170	0.174	0.188	0.190	0.197	0.204
1.060	0.220	0.145	0.131	0.150	0.157	0.167	0.175	0.180	0.190
1.070	0.211	0.128	0.121	0.136	0.144	0.155	0.162	0.166	0.178
1.080	0.204	0.120	0.110	0.127	0.135	0.144	0.153	0.157	0.170
1.100	0.193	0.107	0.098	0.112	0.121	0.130	0.139	0.142	0.158
1.150	0.174	0.091	0.081	0.092	0.101	0.107	0.115	0.120	0.134
1.200	0.158	0.081	0.071	0.080	0.088	0.093			

x = Off-axis distance
h = Field half-width
x = 16.0 * x/h (100.0 + depth) / 100.0

18 MV 8 X 8 cm Wedge Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.988	0.988	0.988	0.990	0.989	0.992	0.993	0.990	0.990
0.100	0.978	0.980	0.978	0.977	0.979	0.978	0.983	0.982	0.978
0.150	0.968	0.972	0.967	0.966	0.968	0.968	0.971	0.972	0.969
0.200	0.959	0.963	0.957	0.956	0.958	0.959	0.960	0.959	0.957
0.250	0.952	0.949	0.950	0.948	0.950	0.948	0.953	0.950	0.946
0.300	0.945	0.941	0.940	0.938	0.938	0.938	0.939	0.937	0.935
0.350	0.933	0.935	0.928	0.928	0.926	0.929	0.928	0.926	0.929
0.400	0.921	0.928	0.919	0.916	0.917	0.913	0.922	0.915	0.921
0.450	0.913	0.919	0.910	0.905	0.908	0.903	0.909	0.905	0.909
0.500	0.906	0.907	0.899	0.896	0.896	0.895	0.893	0.894	0.900
0.550	0.896	0.893	0.887	0.884	0.881	0.881	0.883	0.883	0.887
0.600	0.886	0.881	0.876	0.871	0.869	0.867	0.874	0.871	0.871
0.650	0.876	0.867	0.860	0.856	0.856	0.853	0.856	0.856	0.857
0.700	0.861	0.851	0.840	0.840	0.837	0.836	0.839	0.840	0.841
0.750	0.845	0.832	0.819	0.819	0.816	0.816	0.818	0.819	0.820
0.800	0.822	0.806	0.789	0.792	0.787	0.793	0.791	0.795	0.793
0.820	0.809	0.791	0.772	0.778	0.774	0.781	0.777	0.781	0.780
0.840	0.794	0.776	0.753	0.763	0.755	0.767	0.762	0.764	0.767
0.860	0.769	0.756	0.732	0.744	0.733	0.749	0.742	0.747	0.746
0.880	0.745	0.731	0.702	0.721	0.708	0.728	0.718	0.725	0.725
0.900	0.707	0.706	0.672	0.697	0.677	0.698	0.690	0.699	0.702
0.920	0.663	0.665	0.631	0.660	0.645	0.668	0.657	0.674	0.665
0.940	0.618	0.624	0.584	0.622	0.599	0.627	0.617	0.638	0.627
0.950	0.586	0.604	0.561	0.602	0.576	0.606	0.594	0.616	0.609
0.960	0.554	0.578	0.534	0.576	0.553	0.585	0.570	0.593	0.588
0.970	0.523	0.551	0.507	0.550	0.526	0.562	0.546	0.571	0.562
0.980	0.491	0.523	0.479	0.524	0.499	0.536	0.520	0.548	0.536
0.990	0.460	0.495	0.451	0.498	0.471	0.510	0.492	0.526	0.510
1.000	0.429	0.468	0.423	0.471	0.444	0.484	0.465	0.499	0.484
1.010	0.398	0.440	0.397	0.444	0.417	0.458	0.437	0.472	0.458
1.020	0.367	0.412	0.371	0.417	0.392	0.432	0.411	0.446	0.433
1.030	0.336	0.383	0.345	0.390	0.366	0.406	0.386	0.419	0.409
1.040	0.305	0.355	0.319	0.363	0.341	0.380	0.361	0.392	0.385
1.050	0.284	0.327	0.293	0.339	0.316	0.353	0.336	0.365	0.362
1.060	0.263	0.303	0.274	0.316	0.295	0.331	0.312	0.343	0.338
1.070	0.242	0.281	0.255	0.293	0.276	0.309	0.293	0.322	0.314
1.080	0.221	0.260	0.236	0.270	0.257	0.287	0.275	0.301	0.295
1.100	0.187	0.217	0.199	0.233	0.220	0.246	0.237	0.260	0.263
1.150	0.130	0.146	0.139	0.162	0.159	0.174	0.175	0.188	0.195
1.200	0.098	0.104	0.102	0.118	0.121	0.130	0.138	0.141	0.152
1.300	0.072	0.063	0.065	0.075	0.084	0.085	0.097	0.092	0.112

18 MV 8 X 8 cm Wedge Field (continued)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.063	0.047	0.050	0.056	0.066	0.064	0.079	0.071	0.096
1.500	0.058	0.040	0.041	0.044	0.056	0.054	0.069	0.059	0.084
1.600	0.055	0.035	0.035	0.038	0.049	0.047	0.062	0.051	0.076
1.700	0.051	0.033	0.032	0.034	0.043	0.040	0.057	0.046	0.068
1.800	0.050	0.030	0.029	0.030	0.041	0.036	0.051	0.042	0.063
1.900	0.046	0.028	0.027	0.027	0.037	0.033	0.048	0.038	0.059
2.000	0.044	0.026	0.025	0.025	0.034	0.030	0.042	0.034	0.056
2.100	0.042	0.024	0.023	0.024	0.031	0.029			
2.200	0.039		0.021						

x = Off-axis distance
h = Field half-width
x = 4.0 * x/h (100.0 + depth) / 100.0

18 MV 8 X 8 cm Wedge Field

SSD = 100.0
Field size definition distance = 100.0
Profiles right of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.009	1.014	1.011	1.009	1.009	1.006	1.008	1.009	1.009
0.100	1.016	1.027	1.022	1.017	1.020	1.021	1.020	1.020	1.017
0.150	1.028	1.037	1.032	1.031	1.032	1.034	1.031	1.033	1.024
0.200	1.041	1.048	1.042	1.043	1.041	1.040	1.039	1.043	1.035
0.250	1.050	1.057	1.052	1.053	1.049	1.049	1.050	1.049	1.047
0.300	1.058	1.064	1.061	1.061	1.055	1.057	1.051	1.056	1.054
0.350	1.068	1.075	1.070	1.068	1.063	1.064	1.060	1.066	1.060
0.400	1.075	1.084	1.077	1.076	1.074	1.070	1.067	1.073	1.065
0.450	1.087	1.092	1.086	1.085	1.083	1.077	1.074	1.079	1.072
0.500	1.095	1.101	1.099	1.092	1.088	1.083	1.080	1.085	1.079
0.550	1.102	1.110	1.103	1.098	1.092	1.091	1.085	1.091	1.082
0.600	1.114	1.116	1.105	1.100	1.094	1.092	1.082	1.092	1.084
0.650	1.124	1.119	1.111	1.097	1.093	1.092	1.081	1.087	1.080
0.700	1.125	1.117	1.112	1.090	1.087	1.087	1.076	1.081	1.078
0.750	1.124	1.102	1.098	1.077	1.072	1.068	1.064	1.068	1.063
0.800	1.111	1.070	1.069	1.048	1.048	1.035	1.039	1.036	1.033
0.820	1.100	1.053	1.049	1.028	1.030	1.016	1.021	1.011	1.017
0.840	1.081	1.024	1.030	1.003	1.011	0.991	1.001	0.986	0.997
0.860	1.061	0.995	1.000	0.967	0.983	0.960	0.972	0.952	0.964
0.880	1.022	0.951	0.965	0.932	0.950	0.921	0.940	0.903	0.932
0.900	0.979	0.899	0.924	0.876	0.905	0.869	0.891	0.854	0.889
0.920	0.930	0.842	0.866	0.818	0.849	0.811	0.837	0.799	0.829
0.940	0.852	0.763	0.807	0.748	0.787	0.739	0.773	0.726	0.768
0.950	0.814	0.724	0.769	0.709	0.750	0.703	0.738	0.690	0.738
0.960	0.775	0.684	0.728	0.670	0.712	0.667	0.704	0.654	0.700
0.970	0.736	0.644	0.687	0.631	0.674	0.628	0.669	0.617	0.662
0.980	0.688	0.602	0.646	0.594	0.637	0.589	0.631	0.582	0.624
0.990	0.641	0.560	0.605	0.557	0.599	0.550	0.593	0.547	0.586
1.000	0.594	0.518	0.568	0.520	0.561	0.511	0.555	0.513	0.548
1.010	0.547	0.477	0.531	0.483	0.523	0.477	0.517	0.479	0.511
1.020	0.500	0.438	0.495	0.446	0.484	0.445	0.483	0.444	0.480
1.030	0.463	0.407	0.458	0.415	0.449	0.414	0.450	0.410	0.449
1.040	0.425	0.375	0.421	0.386	0.419	0.382	0.417	0.378	0.417
1.050	0.387	0.344	0.393	0.357	0.389	0.353	0.384	0.356	0.386
1.060	0.350	0.313	0.365	0.328	0.358	0.330	0.356	0.334	0.355
1.070	0.312	0.285	0.338	0.301	0.328	0.308	0.333	0.312	0.330
1.080	0.291	0.266	0.310	0.282	0.306	0.285	0.311	0.290	0.310
1.100	0.249	0.228	0.264	0.245	0.265	0.247	0.268	0.246	0.271
1.150	0.169	0.158	0.181	0.176	0.188	0.182	0.198	0.186	0.200
1.200	0.124	0.115	0.131	0.133	0.142	0.143	0.153	0.149	0.158
1.300	0.085	0.074	0.081	0.089	0.092	0.103	0.108	0.109	0.117

18 MV 8 X 8 cm Wedge Field (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.073	0.057	0.060	0.070	0.073	0.082	0.086	0.090	0.098
1.500	0.067	0.049	0.048	0.059	0.062	0.071	0.073	0.078	0.085
1.600	0.063	0.043	0.044	0.051	0.054	0.063	0.066	0.070	0.076
1.700	0.060	0.040	0.039	0.046	0.048	0.057	0.058	0.063	0.069
1.800	0.057	0.038	0.035	0.041	0.046	0.054	0.054	0.058	0.064
1.900	0.055	0.036	0.033	0.038	0.040	0.050	0.048	0.053	0.058
2.000	0.053	0.034	0.030	0.037	0.037	0.045	0.046	0.048	0.054
2.100	0.050	0.032	0.028	0.034	0.035				
2.200									

x = Off-axis distance
h = Field half-width
x = 4.0 * x/h (100.0 + depth) / 100.0

18 MV 10 X 10 cm Wedge Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.991	0.987	0.986	0.984	0.990	0.990	0.987	0.983	0.987
0.100	0.975	0.977	0.972	0.974	0.973	0.976	0.973	0.975	0.974
0.150	0.963	0.967	0.962	0.961	0.960	0.961	0.965	0.963	0.962
0.200	0.953	0.950	0.949	0.947	0.952	0.954	0.951	0.949	0.953
0.250	0.941	0.938	0.935	0.938	0.938	0.940	0.939	0.933	0.941
0.300	0.930	0.928	0.926	0.926	0.928	0.929	0.927	0.923	0.929
0.350	0.920	0.919	0.916	0.914	0.915	0.916	0.916	0.910	0.915
0.400	0.910	0.910	0.901	0.902	0.906	0.902	0.903	0.896	0.904
0.450	0.901	0.897	0.889	0.888	0.892	0.891	0.886	0.883	0.891
0.500	0.886	0.881	0.878	0.875	0.875	0.878	0.878	0.873	0.873
0.550	0.876	0.868	0.866	0.861	0.862	0.864	0.868	0.859	0.858
0.600	0.868	0.857	0.853	0.847	0.851	0.850	0.852	0.842	0.845
0.650	0.858	0.846	0.841	0.831	0.835	0.836	0.835	0.830	0.832
0.700	0.845	0.832	0.821	0.818	0.818	0.822	0.818	0.813	0.816
0.750	0.828	0.815	0.802	0.800	0.799	0.802	0.798	0.793	0.797
0.800	0.805	0.796	0.774	0.773	0.773	0.779	0.773	0.770	0.775
0.820	0.795	0.783	0.760	0.760	0.760	0.766	0.762	0.758	0.764
0.840	0.782	0.768	0.743	0.747	0.747	0.751	0.747	0.746	0.751
0.860	0.763	0.748	0.722	0.729	0.727	0.734	0.731	0.728	0.737
0.880	0.739	0.727	0.698	0.711	0.706	0.715	0.711	0.710	0.715
0.900	0.706	0.698	0.665	0.683	0.675	0.689	0.684	0.685	0.692
0.920	0.666	0.666	0.626	0.652	0.640	0.657	0.651	0.653	0.654
0.940	0.609	0.617	0.576	0.607	0.592	0.617	0.606	0.620	0.612
0.950	0.580	0.590	0.547	0.585	0.568	0.595	0.583	0.593	0.591
0.960	0.549	0.564	0.518	0.558	0.537	0.568	0.557	0.567	0.561
0.970	0.512	0.533	0.487	0.526	0.507	0.541	0.527	0.540	0.531
0.980	0.475	0.499	0.454	0.495	0.476	0.514	0.496	0.514	0.500
0.990	0.437	0.465	0.420	0.464	0.445	0.484	0.465	0.486	0.470
1.000	0.401	0.431	0.387	0.432	0.414	0.453	0.434	0.455	0.440
1.010	0.368	0.398	0.356	0.400	0.383	0.421	0.403	0.424	0.410
1.020	0.336	0.366	0.327	0.368	0.353	0.391	0.371	0.393	0.381
1.030	0.303	0.334	0.299	0.337	0.325	0.361	0.342	0.362	0.352
1.040	0.271	0.301	0.271	0.312	0.300	0.332	0.316	0.334	0.322
1.050	0.249	0.273	0.247	0.286	0.275	0.302	0.290	0.310	0.299
1.060	0.228	0.250	0.228	0.261	0.249	0.279	0.264	0.285	0.280
1.070	0.206	0.227	0.209	0.238	0.231	0.256	0.245	0.261	0.260
1.080	0.185	0.204	0.189	0.220	0.213	0.233	0.226	0.237	0.240
1.100	0.161	0.171	0.162	0.184	0.179	0.198	0.193	0.203	0.210
1.150	0.118	0.114	0.112	0.126	0.130	0.136	0.145	0.144	0.162
1.200	0.097	0.084	0.084	0.095	0.103	0.105	0.118	0.113	0.134
1.300	0.079	0.058	0.059	0.066	0.078	0.077	0.094	0.084	0.108

18 MV 10 X 10 cm Wedge Field (continued)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.073	0.047	0.049	0.052	0.065	0.063	0.080	0.071	0.094
1.500	0.069	0.043	0.043	0.045	0.057	0.056	0.070	0.060	0.084
1.600	0.066	0.039	0.038	0.040	0.052	0.048	0.062	0.054	0.071
1.700	0.062	0.036	0.035		0.045				

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (100.0 + depth) / 100.0

18 MV 10 X 10 cm Wedge Field

SSD = 100.0
Field size definition distance = 100.0
Profiles right of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.011	1.014	1.010	1.016	1.010	1.012	1.013	1.014	1.016
0.100	1.022	1.024	1.024	1.031	1.023	1.028	1.024	1.024	1.031
0.150	1.036	1.037	1.038	1.040	1.036	1.040	1.037	1.038	1.036
0.200	1.052	1.054	1.049	1.050	1.049	1.052	1.044	1.050	1.041
0.250	1.068	1.066	1.062	1.063	1.062	1.067	1.059	1.058	1.052
0.300	1.076	1.076	1.074	1.075	1.073	1.076	1.069	1.069	1.061
0.350	1.081	1.090	1.083	1.088	1.080	1.088	1.076	1.081	1.073
0.400	1.092	1.104	1.100	1.099	1.093	1.097	1.089	1.090	1.086
0.450	1.108	1.113	1.111	1.106	1.106	1.103	1.094	1.098	1.094
0.500	1.121	1.126	1.121	1.116	1.112	1.114	1.107	1.105	1.096
0.550	1.132	1.139	1.131	1.127	1.119	1.123	1.113	1.110	1.103
0.600	1.145	1.152	1.140	1.137	1.130	1.129	1.119	1.119	1.108
0.650	1.154	1.157	1.147	1.141	1.134	1.133	1.126	1.125	1.114
0.700	1.162	1.166	1.151	1.144	1.136	1.134	1.126	1.121	1.116
0.750	1.174	1.167	1.152	1.141	1.134	1.128	1.119	1.113	1.108
0.800	1.174	1.151	1.138	1.122	1.119	1.113	1.104	1.098	1.090
0.820	1.168	1.139	1.126	1.107	1.108	1.100	1.091	1.085	1.077
0.840	1.157	1.119	1.110	1.089	1.090	1.085	1.076	1.066	1.060
0.860	1.142	1.094	1.092	1.063	1.070	1.058	1.055	1.039	1.038
0.880	1.114	1.058	1.059	1.033	1.039	1.024	1.028	1.011	1.002
0.900	1.082	1.014	1.025	0.982	1.000	0.976	0.994	0.951	0.965
0.920	1.025	0.949	0.965	0.929	0.946	0.909	0.938	0.891	0.897
0.940	0.966	0.875	0.903	0.843	0.878	0.831	0.871	0.813	0.827
0.950	0.917	0.826	0.857	0.801	0.837	0.784	0.824	0.766	0.789
0.960	0.868	0.777	0.812	0.756	0.795	0.735	0.777	0.720	0.742
0.970	0.819	0.728	0.766	0.706	0.750	0.685	0.730	0.674	0.694
0.980	0.769	0.677	0.720	0.656	0.698	0.636	0.678	0.628	0.647
0.990	0.711	0.623	0.668	0.605	0.647	0.587	0.626	0.583	0.600
1.000	0.652	0.570	0.615	0.557	0.595	0.539	0.575	0.539	0.556
1.010	0.594	0.516	0.563	0.511	0.547	0.490	0.527	0.494	0.515
1.020	0.535	0.468	0.514	0.464	0.501	0.450	0.484	0.450	0.474
1.030	0.487	0.427	0.471	0.418	0.454	0.412	0.441	0.409	0.433
1.040	0.441	0.387	0.428	0.382	0.410	0.375	0.400	0.381	0.392
1.050	0.396	0.346	0.385	0.350	0.377	0.341	0.369	0.352	0.366
1.060	0.350	0.311	0.349	0.318	0.344	0.316	0.337	0.324	0.340
1.070	0.317	0.285	0.319	0.285	0.311	0.292	0.306	0.295	0.313
1.080	0.290	0.259	0.289	0.265	0.284	0.268	0.284	0.272	0.287
1.100	0.236	0.210	0.237	0.225	0.242	0.233	0.242	0.241	0.250
1.150	0.160	0.142	0.158	0.158	0.168	0.169	0.178	0.182	0.188
1.200	0.125	0.106	0.115	0.124	0.130	0.137	0.144	0.149	0.154
1.300	0.100	0.075	0.078	0.088	0.096	0.105	0.110	0.116	0.119

18 MV 10 X 10 cm Wedge Field (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.092	0.064	0.062	0.073	0.078	0.087	0.093	0.095	0.100
1.500	0.086	0.057	0.055	0.063	0.069	0.079	0.080	0.084	0.090
1.600	0.080	0.053	0.050	0.057	0.061	0.070	0.072	0.075	0.079
1.700	0.076	0.050	0.043	0.053	0.054				

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (100.0 + depth) / 100.0

18 MV 6 X 6 cm Field at 80 cm SSD

SSD = 80.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.998	1.000	1.000	1.000	1.000	0.998	0.999	0.999	0.999
0.100	0.998	1.000	0.999	0.998	1.000	0.997	0.997	0.998	1.000
0.150	1.000	0.999	0.997	0.995	0.997	0.997	0.992	0.997	0.998
0.200	0.998	0.998	0.997	0.995	0.995	0.996	0.987	0.995	0.995
0.250	0.998	0.998	0.996	0.993	0.994	0.996	0.984	0.996	0.994
0.300	0.997	0.998	0.994	0.993	0.992	0.994	0.982	0.995	0.992
0.350	0.998	0.997	0.993	0.992	0.989	0.992	0.978	0.991	0.989
0.400	1.001	0.994	0.992	0.991	0.985	0.989	0.976	0.987	0.986
0.450	0.999	0.993	0.989	0.988	0.982	0.987	0.972	0.982	0.983
0.500	0.997	0.990	0.984	0.983	0.977	0.980	0.966	0.978	0.979
0.550	0.996	0.985	0.978	0.976	0.971	0.972	0.961	0.972	0.974
0.600	0.994	0.979	0.970	0.967	0.963	0.964	0.954	0.966	0.967
0.650	0.988	0.971	0.961	0.955	0.951	0.954	0.943	0.954	0.958
0.700	0.977	0.958	0.944	0.939	0.937	0.938	0.929	0.938	0.944
0.750	0.960	0.936	0.920	0.915	0.915	0.915	0.908	0.915	0.921
0.800	0.935	0.903	0.888	0.880	0.883	0.880	0.876	0.882	0.887
0.820	0.921	0.887	0.868	0.864	0.866	0.861	0.857	0.866	0.872
0.840	0.903	0.866	0.846	0.841	0.849	0.839	0.838	0.845	0.848
0.860	0.882	0.846	0.824	0.814	0.818	0.816	0.811	0.818	0.823
0.880	0.850	0.812	0.794	0.787	0.788	0.784	0.777	0.791	0.793
0.900	0.818	0.778	0.753	0.751	0.758	0.745	0.743	0.751	0.753
0.920	0.769	0.732	0.712	0.705	0.709	0.707	0.697	0.707	0.713
0.940	0.715	0.680	0.669	0.659	0.660	0.657	0.647	0.662	0.659
0.950	0.688	0.654	0.640	0.635	0.635	0.630	0.622	0.634	0.632
0.960	0.656	0.624	0.611	0.610	0.610	0.603	0.597	0.605	0.605
0.970	0.622	0.593	0.583	0.581	0.582	0.576	0.569	0.576	0.577
0.980	0.589	0.562	0.554	0.552	0.553	0.549	0.541	0.548	0.549
0.990	0.555	0.531	0.525	0.523	0.524	0.522	0.512	0.519	0.521
1.000	0.521	0.500	0.497	0.494	0.494	0.494	0.483	0.492	0.493
1.010	0.489	0.470	0.470	0.465	0.465	0.467	0.455	0.465	0.465
1.020	0.457	0.441	0.444	0.437	0.436	0.439	0.427	0.438	0.437
1.030	0.424	0.411	0.418	0.414	0.411	0.412	0.404	0.411	0.413
1.040	0.392	0.382	0.392	0.390	0.388	0.384	0.380	0.384	0.389
1.050	0.361	0.357	0.367	0.367	0.365	0.361	0.356	0.359	0.365
1.060	0.338	0.335	0.341	0.343	0.342	0.340	0.332	0.339	0.341
1.070	0.315	0.313	0.316	0.319	0.319	0.318	0.309	0.320	0.318
1.080	0.292	0.290	0.299	0.296	0.295	0.297	0.291	0.300	0.299
1.100	0.250	0.253	0.265	0.264	0.263	0.255	0.260	0.261	0.265
1.150	0.181	0.183	0.191	0.191	0.191	0.192	0.194	0.195	0.198
1.200	0.139	0.136	0.142	0.146	0.148	0.150	0.149	0.153	0.155
1.300	0.095	0.081	0.089	0.094	0.098	0.099	0.100	0.103	0.109

18 MV 6 X 6 cm Field at 80 cm SSD (continued)

x/h	Depth(cm) 1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.075	0.056	0.061	0.066	0.071	0.075	0.077	0.080	0.086
1.500	0.065	0.044	0.047	0.051	0.056	0.060	0.063	0.066	0.072
1.600	0.058	0.035	0.039	0.041	0.048	0.052	0.052	0.055	0.061
1.700	0.053	0.030	0.034	0.035	0.040	0.043	0.045	0.048	0.055
1.800	0.048	0.027	0.029	0.031	0.036	0.037	0.041	0.042	0.052
1.900	0.044	0.024	0.026	0.027	0.033	0.034	0.038	0.040	0.046
2.000	0.041	0.021	0.023	0.024	0.030	0.031	0.034		
2.100	0.036	0.019	0.021	0.024	0.027				
2.200	0.034	0.017	0.019	0.020					
2.300	0.032		0.017						

x = Off-axis distance
h = Field half-width
x = 3.7 * x/h (80.0 + depth) / 100.0

18 MV 10 X 10 cm Field at 80 cm SSD

SSD = 80.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	1.001	1.001	0.999	1.001	0.998	0.999	0.999	1.000	0.999
0.100	1.001	1.001	0.999	0.997	0.998	0.997	0.997	0.999	0.999
0.150	0.998	1.002	0.997	0.999	0.997	0.996	0.996	0.998	0.997
0.200	1.001	1.002	0.998	1.000	0.996	0.995	0.997	0.996	0.997
0.250	1.002	1.002	0.999	0.997	0.997	0.997	0.994	0.995	0.997
0.300	1.002	1.003	1.000	0.998	0.997	0.997	0.994	0.994	0.995
0.350	1.002	1.003	1.000	0.999	0.996	0.996	0.992	0.992	0.992
0.400	1.003	1.003	0.998	0.998	0.993	0.995	0.988	0.991	0.989
0.450	1.003	1.001	0.997	0.995	0.992	0.988	0.986	0.987	0.983
0.500	1.001	1.002	0.996	0.993	0.990	0.985	0.984	0.984	0.978
0.550	0.999	1.000	0.994	0.988	0.985	0.980	0.978	0.979	0.974
0.600	0.997	0.997	0.988	0.983	0.982	0.975	0.970	0.975	0.970
0.650	0.997	0.994	0.983	0.979	0.975	0.972	0.966	0.968	0.964
0.700	0.993	0.990	0.977	0.970	0.968	0.963	0.959	0.958	0.955
0.750	0.988	0.981	0.964	0.960	0.955	0.949	0.947	0.946	0.944
0.800	0.977	0.963	0.948	0.942	0.936	0.930	0.928	0.929	0.927
0.820	0.969	0.954	0.936	0.930	0.926	0.920	0.918	0.920	0.916
0.840	0.958	0.939	0.922	0.915	0.911	0.908	0.905	0.908	0.900
0.860	0.944	0.923	0.901	0.896	0.894	0.889	0.890	0.892	0.882
0.880	0.924	0.897	0.878	0.871	0.870	0.869	0.867	0.870	0.856
0.900	0.901	0.868	0.843	0.839	0.839	0.836	0.840	0.837	0.825
0.920	0.852	0.819	0.804	0.799	0.797	0.795	0.794	0.799	0.777
0.940	0.804	0.763	0.740	0.741	0.740	0.737	0.735	0.736	0.722
0.950	0.758	0.729	0.704	0.706	0.704	0.704	0.697	0.705	0.682
0.960	0.711	0.684	0.667	0.670	0.669	0.662	0.660	0.660	0.642
0.970	0.665	0.638	0.625	0.632	0.628	0.619	0.617	0.614	0.603
0.980	0.618	0.593	0.579	0.585	0.581	0.577	0.569	0.568	0.562
0.990	0.570	0.547	0.533	0.539	0.534	0.531	0.521	0.522	0.518
1.000	0.520	0.500	0.486	0.493	0.486	0.485	0.475	0.476	0.475
1.010	0.471	0.453	0.444	0.450	0.444	0.439	0.433	0.430	0.431
1.020	0.422	0.407	0.406	0.409	0.403	0.397	0.392	0.390	0.393
1.030	0.383	0.362	0.367	0.368	0.361	0.361	0.351	0.355	0.362
1.040	0.352	0.331	0.329	0.327	0.323	0.325	0.321	0.320	0.330
1.050	0.320	0.301	0.297	0.300	0.295	0.290	0.294	0.289	0.299
1.060	0.289	0.271	0.272	0.273	0.268	0.267	0.266	0.266	0.273
1.070	0.263	0.241	0.246	0.246	0.240	0.245	0.243	0.244	0.254
1.080	0.247	0.222	0.221	0.222	0.220	0.223	0.226	0.222	0.235
1.100	0.214	0.187	0.187	0.190	0.189	0.191	0.192	0.195	0.201
1.150	0.162	0.126	0.127	0.130	0.136	0.139	0.145	0.148	0.155
1.200	0.137	0.095	0.094	0.100	0.107	0.112	0.118	0.120	0.129
1.300	0.112	0.066	0.065	0.070	0.079	0.085	0.090	0.094	0.102

18 MV 10 X 10 cm Field at 80 cm SSD (continued)

	Depth(cm)								
x/h	1.0	3.0	7.0	11.0	15.0	19.0	23.0	27.0	35.0
1.400	0.098	0.053	0.052	0.058	0.064	0.069	0.074	0.079	0.088
1.500	0.087	0.045	0.043	0.049	0.054	0.059	0.064	0.067	0.074
1.600	0.076	0.039	0.037	0.041	0.047	0.051	0.055		
1.700	0.068	0.034	0.033						

x = Off-axis distance
h = Field half-width
x = 6.3 * x/h (80.0 + depth) / 100.0

18 MV 32 X 32 cm Field Gun-Target Direction

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)			
x/h	3.0	11.0	19.0	27.0
0.000	1.000	1.000	1.000	1.000
0.050	1.004	1.005	1.003	1.005
0.100	1.006	1.008	1.004	1.005
0.150	1.007	1.007	1.005	1.006
0.200	1.005	1.005	1.003	1.004
0.250	1.004	1.004	1.000	1.001
0.300	1.005	1.004	1.000	0.997
0.350	1.009	1.008	1.001	1.000
0.400	1.014	1.014	1.006	1.001
0.450	1.017	1.014	1.005	0.999
0.500	1.012	1.008	0.997	0.990
0.550	1.009	1.004	0.993	0.983
0.600	1.007	1.002	0.988	0.977
0.650	1.008	1.002	0.984	0.971
0.700	1.010	1.001	0.981	0.966
0.750	1.012	1.002	0.977	0.960
0.800	1.013	0.998	0.971	0.949
0.820	1.011	0.995	0.967	0.945
0.840	1.008	0.990	0.961	0.937
0.860	1.004	0.984	0.952	0.927
0.880	0.998	0.976	0.941	0.916
0.900	0.988	0.965	0.928	0.903
0.920	0.976	0.948	0.911	0.886
[illegible]	0.953	0.919	0.882	0.860
[illegible]	[illegible]	[illegible]	0.858	0.839
0.950	[illegible]	0.859	0.828	0.811
0.970	0.833	0.803	0.774	0.764
0.980	0.756	0.717	0.711	0.702
0.990	0.642	0.593	0.596	0.596
1.000	0.501	0.474	0.473	0.478
1.010	0.380	0.360	0.375	0.381
1.020	0.294	0.272	0.282	0.296
1.030	0.217	0.223	0.238	0.250
1.040	0.183	0.184	0.199	0.216
1.050	0.150	0.161	0.178	0.192
1.060	0.136	0.142	0.160	0.175
1.070	0.121	0.131	0.148	0.162
1.080	0.113	0.121	0.138	0.153
1.100	0.102	0.106	0.125	0.138
1.150	0.085	0.085	0.102	0.113
1.200	0.073	0.073	0.086	

x = Off-axis distance
h = Field half-width
x = 16.0 * x/h (100.0 + depth) / 100.0

18 MV 32 X 32 cm Field Diagonal

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Beam profiles (Off-center ratios)

	Depth(cm)	
x/h	1.0	3.0
0.000	1.000	1.000
0.050	1.008	1.003
0.100	1.011	1.001
0.150	1.011	0.999
0.200	1.015	1.003
0.250	1.017	1.008
0.300	1.021	1.014
0.350	1.016	1.012
0.400	1.012	1.010
0.450	1.010	1.012
0.500	1.010	1.017
0.550	1.013	1.022
0.600	1.005	1.020
0.650	0.996	1.014
0.700	0.984	1.008
0.750	0.978	1.005
0.800	0.971	1.002
0.820	0.968	1.001
0.840	0.966	1.000
0.860	0.963	0.996
0.880	0.959	0.988
0.900	0.949	0.971
0.920	0.921	0.931
0.940	0.845	0.833
0.950	0.748	0.738
0.960	0.611	0.591
0.970	0.438	0.426
0.980	0.315	0.283
0.990	0.222	0.190
1.000	0.177	0.132
1.010	0.152	0.105
1.020	0.134	0.085
1.030	0.126	0.073
1.040	0.119	0.067
1.050	0.114	0.062
1.060	0.110	0.058
1.070	0.106	0.055
1.080	0.102	0.053
1.100	0.096	0.048
1.150	0.082	0.040
1.200	0.070	0.034

x = Off-axis distance
h = Field half-width
x = 22.6 * x/h (100.0 + depth) / 100.0

18 MV TEST CASES

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8 MV 5 X 5 cm Test Case

easured values are quoted below for locations within the central plane of a 5 X 5 cm ield, 100 cm SSD. Measured dose is relative to the central axis of the 10 X 10 cm eference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.755	0.939	0.900	0.725	0.578	0.460	0.369	0.239
Computed Dose								
Computed - Measured								

Off Axis 1 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.742	0.928	0.889	0.716	0.571	0.456	0.366	0.238
Computed Dose								
Computed - Measured								

Off Axis 5 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.019	0.017	0.017	0.020	0.021	0.021	0.020	0.018
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	5.03	5.12	5.22	5.47	5.71	5.98	6.23	6.73
Computed Width								
Computed - Measured								

18 MV 10 X 10 cm Test Case

Measured values are quoted below for locations within the central plane of a 10 X 10 cm field, 100 cm SSD. Measured dose is relative to the central axis point at 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.816	1.000	0.959	0.784	0.634	0.511	0.413	0.271
Computed Dose								
Computed - Measured								

Off Axis 3 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.808	0.999	0.958	0.780	0.629	0.506	0.409	0.269
Computed Dose								
Computed - Measured								

Off Axis 9 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.042	0.032	0.027	0.028	0.029	0.029	0.028	0.024
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	10.13	10.30	10.48	10.99	11.49	11.99	12.49	13.50
Computed Width								
Computed - Measured								

18 MV 25 X 25 cm Field Test Case

Measured values are quoted below for locations within the central plane of a 25 X 25 cm field, 100 cm SSD. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.073	1.153	1.080	0.896	0.738	0.606	0.499	0.338
Computed Dose								
Computed - Measured								

Off Axis 9 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.054	1.146	1.075	0.885	0.725	0.593	0.486	0.327
Computed Dose								
Computed - Measured								

Off Axis 19 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.103	0.058	0.050	0.051	0.053	0.053	0.053	0.051
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	25.38	25.76	26.20	27.57	28.74	30.12	31.32	33.87
Computed Width								
Computed - Measured								

18 MV 5 X 25 cm Field Test Case

Measurement results are quoted below for a 5 X 25 cm field, 100 cm SSD. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.825	1.002	0.957	0.779	0.627	0.505	0.407	0.268
Computed Dose								
Computed - Measured								

Off Axis 1 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.815	0.990	0.945	0.768	0.619	0.499	0.403	0.265
Computed Dose								
Computed - Measured								

Off Axis 5 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.056	0.041	0.038	0.042	0.044	0.043	0.041	0.035
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	5.10	5.16	5.26	5.52	5.78	6.06	6.31	6.85
Computed Width								
Computed - Measured								

18 MV 25 X 5 cm Field Test Case

Measured values are quoted below for locations within the central plane of a 25 X 5 cm field, 100 cm SSD. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.810	0.986	0.943	0.766	0.617	0.496	0.401	0.264
Computed Dose								
Computed - Measured								

Off Axis 9 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.819	0.998	0.952	0.769	0.617	0.494	0.397	0.260
Computed Dose								
Computed - Measured								

Off Axis 19 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.027	0.018	0.016	0.017	0.018	0.018	0.018	0.020
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	25.26	25.70	26.15	27.53	28.67	30.07	31.24	33.79
Computed Width								
Computed - Measured								

18 MV 10 X 10 cm Field 85cm SSD Test Case

Measured dose values for the locations tabulated below are given for a 10 X 10 cm field simulating an isocentric treatment. Field size is stated at the isocenter (100cm SAD) located at a depth of 15cm. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.120	1.373	1.307	1.048	0.833	0.661	0.527	0.339
Computed Dose								
Computed - Measured								

Off Axis 2.5 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	1.119	1.375	1.305	1.044	0.829	0.657	0.524	0.337
Computed Dose								
Computed - Measured								

Off Axis 7 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.074	0.055	0.050	0.053	0.056	0.056	0.055	0.055
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	8.61	8.78	8.96	9.48	9.98	10.50	11.00	12.00
Computed Width								
Computed - Measured								

18 MV 9 X 9 cm Field Wedge Test Case

Radiation dose was measured at locations tabulated below for a 9 X 9 cm field, 100cm SSD, containing a 45-degree wedge. The wedge is oriented to have the thin end of the wedge toward the right-hand side of the radiation field. Measured dose is relative to dose on the central axis of the open 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.510	0.644	0.620	0.507	0.409	0.329	0.265	0.174
Computed Dose								
Computed - Measured								

Off Axis 2.5 cm (left)

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.449	0.567	0.545	0.447	0.363	0.292	0.238	0.157
Computed Dose								
Computed - Measured								

Off Axis 2.5 cm (right)

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.569	0.725	0.696	0.563	0.451	0.361	0.290	0.188
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	9.12	9.27	9.44	9.91	10.37	10.83	11.30	12.19
Computed Width								
Computed - Measured								

18 MV Central Block Test Case

Measurement results are quoted for locations tabulated below for a 16 X 16 cm field modified by including an untapered lead shielding block 1 cm wide, 7 cm thick and 4 cm long. The block is mounted on a standard tray and centered on the beam axis. The long dimension (4 cm) is orthogonal to the measurement plane. Measured dose is relative to dose on central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.220	0.205	0.199	0.187	0.168	0.147	0.127	0.090
Computed Dose								
Computed - Measured								

Off Axis 4 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.874	1.021	0.970	0.795	0.645	0.524	0.426	0.284
Computed Dose								
Computed - Measured								

18 MV Off-Center Plane Test Case

Measurements were made for locations tabulated below in a plane separated by 4 cm from the central plane of a 10 X 10 cm field, SSD 100 cm. "Plane Center-Line" in this work sheet refers to the center of the off-axis measurement plane. Measured dose is relative to the central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Plane Center-Line

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.786	0.968	0.931	0.765	0.621	0.503	0.407	0.269
Computed Dose								
Computed - Measured								

Off Center 3 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.777	0.963	0.923	0.756	0.612	0.494	0.400	0.264
Computed Dose								
Computed - Measured								

Off Center 8 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.045	0.033	0.030	0.031	0.033	0.034	0.033	0.032
Computed Dose								
Computed - Measured								

Radiological Field Width

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Width (cm)	10.12	10.28	10.48	10.98	11.48	11.98	12.48	13.46
Computed Width								
Computed - Measured								

18 MV Irregular Field Test Case

Measurement results are tabulated below for a field made "L-shaped" by removing a 12 X 12 cm portion from one corner of a 16 X 16 cm open field, 100 cm SSD, by means of a tapered alloy block. The measurement plane is orthogonal to one segment of the "L" and through the blocked beam central axis. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.072	0.057	0.051	0.049	0.047	0.043	0.038	0.029
Computed Dose								
Computed - Measured								

Off Axis 6 cm

Depth (cm)	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
Measured Dose	0.805	0.988	0.940	0.756	0.601	0.476	0.378	0.236
Computed Dose								
Computed - Measured								

18 MV Lung Inhomogeneity Test Case, 16 X 16 cm Field

Measurement results are tabulated below for a lung-simulating cylinder, 6 cm in diameter and 12 cm long suspended in a water phantom. Radiation dose was measured on the central plane of a 16 X 16 cm field, 100 cm SSD, at points exterior to the inhomogeneity. The object was placed in the phantom with its axis parallel to the surface and at 8 cm depth. The cylinder is muscle-equivalent in composition and has a density of 0.29 g / cc. Measured dose is relative to the central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	11.0	11.5	12.0	15.0	20.0	25.0	35.0	
Measured Dose	0.877	0.858	0.841	0.749	0.614	0.501	0.334	
Computed Dose								
Computed - Measured								

Off Axis 2 cm

Depth (cm)	11.0	11.5	12.0	15.0	20.0	25.0	35.0	
Measured Dose	0.847	0.831	0.815	0.726	0.596	0.486	0.326	
Computed Dose								
Computed - Measured								

Off Axis 5 cm

Depth (cm)	11.0	11.5	12.0	15.0	20.0	25.0	35.0	
Measured Dose	0.784	0.769	0.754	0.666	0.543	0.442	0.296	
Computed Dose								
Computed - Measured								

18 MV Lung Inhomogeneity Test Case, 6 X 6 cm Field

Measurement results are tabulated below for a lung-simulating cylinder, 6 cm in diameter and 12 cm long suspended in a water phantom. Radiation dose was measured on the central plane of a 6 X 6 cm field, 100 cm SSD, at points exterior to the inhomogeneity. The object was placed in the phantom with its axis parallel to the surface and at 8 cm depth. The cylinder is muscle-equivalent in composition and has a density of 0.29 g / cc. Measured dose is relative to dose on the central axis of the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	11.0	11.5	12.0	15.0	20.0	25.0	35.0	
Measured Dose	0.747	0.748	0.740	0.659	0.531	0.427	0.277	
Computed Dose								
Computed - Measured								

Off Axis 2 cm

Depth (cm)	11.0	11.5	12.0	15.0	20.0	25.0	35.0	
Measured Dose	0.718	0.708	0.696	0.619	0.501	0.405	0.266	
Computed Dose								
Computed - Measured								

8 MV Bone Inhomogeneity Test Case

easurement results are tabulated below for a bone-simulating cylinder, 2 cm in diameter nd 12 cm long suspended in a water phantom. Radiation dose was measured on the central lane of a 16 X 16 cm field at points exterior to the inhomogeneity. The object was laced in the phantom with its axis parallel to the surface and at 6 cm depth. The ylinder is bone-equivalent in composition and has a density of 1.40 g / cc. Measured ose is relative to the 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

pth (cm)	7.5	8.0	10.0	15.0	20.0	25.0	35.0
easured Dose	0.905	0.888	0.820	0.669	0.546	0.445	0.297
omputed Dose							
omputed - Measured							

Off Axis 4 cm

epth (cm)	7.5	8.0	10.0	15.0	20.0	25.0	35.0
easured Dose	0.908	0.890	0.821	0.670	0.545	0.440	0.296
omputed Dose							
omputed - Measured							

18 MV Oblique Incidence Test Case

Measured values are tabulated below for locations within a 10 X 10 cm field, 100 cm SSD, incident on the water phantom at a 45 degree angle. Field size is designated perpendicular to the beam central axis. Off-Axis distances given below are PARALLEL TO THE SURFACE rather than perpendicular to the beam central axis. Scan Depth, given below, is PERPENDICULAR TO THE SURFACE not parallel to the beam central axis. See the diagram in the instruction section of the test package for clarification. Measured Dose is relative to the central axis of the normally incident 10 X 10 cm reference field, 100 cm SSD, 3 cm depth.

Central Axis

Depth (cm)	1.0	2.12	3.0	5.0	10.0	15.0	20.0	25.0
Measured Dose	0.902	0.998	0.983	0.890	0.663	0.492	0.365	0.273
Computed Dose								
Computed - Measured								

Off Axis 3 cm (left)

Depth (cm)	1.0	2.12	3.0	5.0	10.0	15.0	20.0	25.0
Measured Dose	0.930	1.032	1.016	0.920	0.684	0.508	0.377	0.281
Computed Dose								
Computed - Measured								

Off Axis 3 cm (right)

Depth (cm)	1.0	2.12	3.0	5.0	10.0	15.0	20.0	25.0
Measured Dose	0.873	0.966	0.949	0.860	0.638	0.472	0.350	0.260
Computed Dose								
Computed - Measured								

18 MV 5 X 5 cm Field Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.794	1.000	0.960	0.773	0.616	0.491	0.393	0.258
0.050	0.796	0.999	0.960	0.773	0.616	0.490	0.394	0.257
0.100	0.795	0.998	0.962	0.773	0.615	0.490	0.396	0.256
0.150	0.794	0.999	0.963	0.772	0.614	0.490	0.395	0.256
0.200	0.794	0.998	0.960	0.771	0.613	0.489	0.393	0.256
0.250	0.796	0.996	0.957	0.771	0.611	0.488	0.392	0.256
0.300	0.796	0.995	0.953	0.769	0.610	0.487	0.392	0.255
0.350	0.795	0.993	0.950	0.767	0.608	0.485	0.391	0.254
0.400	0.793	0.989	0.947	0.764	0.606	0.485	0.390	0.254
0.450	0.791	0.985	0.943	0.760	0.603	0.484	0.387	0.253
0.500	0.787	0.980	0.937	0.756	0.599	0.480	0.384	0.251
0.550	0.782	0.974	0.927	0.749	0.593	0.475	0.382	0.249
0.600	0.776	0.963	0.918	0.740	0.587	0.470	0.379	0.246
0.650	0.767	0.946	0.904	0.728	0.579	0.462	0.374	0.243
0.700	0.752	0.925	0.881	0.711	0.564	0.453	0.365	0.238
0.750	0.732	0.898	0.849	0.689	0.546	0.440	0.354	0.231
0.800	0.701	0.857	0.807	0.660	0.519	0.422	0.339	0.222
0.820	0.681	0.839	0.788	0.644	0.507	0.413	0.330	0.217
0.840	0.661	0.811	0.762	0.625	0.491	0.403	0.321	0.212
0.860	0.639	0.782	0.734	0.606	0.474	0.388	0.309	0.205
0.880	0.607	0.752	0.704	0.580	0.456	0.374	0.297	0.197
0.900	0.575	0.712	0.667	0.554	0.433	0.357	0.284	0.190
0.920	0.540	0.671	0.629	0.526	0.410	0.339	0.269	0.181
0.940	0.500	0.629	0.590	0.493	0.384	0.320	0.253	0.171
0.950	0.480	0.606	0.568	0.476	0.371	0.309	0.245	0.166
0.960	0.459	0.584	0.546	0.460	0.357	0.299	0.236	0.162
0.970	0.439	0.561	0.525	0.443	0.344	0.288	0.228	0.157
0.980	0.419	0.539	0.503	0.426	0.331	0.278	0.219	0.151
0.990	0.399	0.517	0.481	0.409	0.317	0.267	0.211	0.146
1.000	0.379	0.494	0.461	0.392	0.304	0.257	0.202	0.140
1.010	0.359	0.472	0.440	0.375	0.291	0.246	0.193	0.135
1.020	0.339	0.450	0.419	0.358	0.278	0.236	0.185	0.129
1.030	0.319	0.428	0.399	0.343	0.265	0.225	0.176	0.124
1.040	0.303	0.406	0.378	0.328	0.253	0.216	0.168	0.119
1.050	0.286	0.386	0.359	0.312	0.241	0.207	0.160	0.114
1.060	0.269	0.367	0.342	0.297	0.228	0.198	0.152	0.109
1.070	0.253	0.348	0.324	0.281	0.216	0.188	0.144	0.104
1.080	0.236	0.329	0.306	0.268	0.205	0.179	0.138	0.099
1.100	0.209	0.292	0.272	0.242	0.185	0.163	0.125	0.089
1.150	0.151	0.219	0.203	0.185	0.141	0.127	0.096	0.069
1.200	0.108	0.166	0.154	0.143	0.108	0.099	0.074	0.055
1.300	0.064	0.099	0.093	0.089	0.069	0.063	0.048	0.036

x = Off-axis distance
h = Field half-width
x = 2.5 * x/h (100.0 + depth) / 100.0

18 MV 10 X 10 cm Field Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.804	1.000	0.960	0.786	0.636	0.513	0.415	0.271
0.050	0.803	0.998	0.959	0.786	0.636	0.513	0.415	0.271
0.100	0.804	0.994	0.960	0.785	0.635	0.511	0.415	0.270
0.150	0.805	0.995	0.959	0.785	0.633	0.512	0.413	0.270
0.200	0.804	0.994	0.959	0.784	0.633	0.512	0.414	0.269
0.250	0.806	0.994	0.960	0.782	0.634	0.510	0.413	0.268
0.300	0.804	0.995	0.959	0.783	0.633	0.508	0.413	0.268
0.350	0.803	0.994	0.960	0.781	0.633	0.508	0.412	0.267
0.400	0.803	0.994	0.959	0.781	0.631	0.506	0.411	0.266
0.450	0.802	0.991	0.955	0.781	0.630	0.505	0.411	0.265
0.500	0.801	0.990	0.952	0.777	0.627	0.504	0.409	0.265
0.550	0.799	0.988	0.951	0.773	0.625	0.501	0.406	0.264
0.600	0.799	0.986	0.949	0.770	0.621	0.500	0.403	0.262
0.650	0.794	0.983	0.941	0.767	0.617	0.497	0.401	0.260
0.700	0.792	0.979	0.934	0.760	0.611	0.491	0.397	0.258
0.750	0.787	0.969	0.921	0.750	0.603	0.486	0.391	0.254
0.800	0.775	0.949	0.900	0.735	0.589	0.475	0.383	0.249
0.820	0.766	0.936	0.885	0.724	0.581	0.468	0.378	0.246
0.840	0.756	0.922	0.870	0.711	0.569	0.461	0.371	0.242
0.860	0.741	0.901	0.846	0.695	0.556	0.452	0.363	0.237
0.880	0.721	0.878	0.821	0.678	0.539	0.439	0.352	0.230
0.900	0.694	0.840	0.779	0.649	0.517	0.424	0.339	0.221
0.920	0.650	0.798	0.737	0.620	0.488	0.400	0.318	0.208
0.940	0.601	0.737	0.674	0.571	0.450	0.375	0.294	0.192
0.950	0.567	0.701	0.641	0.546	0.427	0.357	0.279	0.184
0.960	0.532	0.666	0.608	0.521	0.404	0.339	0.263	0.174
0.970	0.498	0.630	0.570	0.489	0.379	0.321	0.248	0.164
0.980	0.463	0.588	0.529	0.457	0.353	0.301	0.231	0.153
0.990	0.428	0.547	0.488	0.425	0.326	0.280	0.215	0.143
1.000	0.392	0.505	0.446	0.393	0.299	0.259	0.199	0.133
1.010	0.357	0.463	0.409	0.363	0.275	0.238	0.183	0.123
1.020	0.321	0.425	0.374	0.333	0.252	0.219	0.169	0.114
1.030	0.291	0.387	0.339	0.302	0.229	0.200	0.154	0.104
1.040	0.265	0.350	0.303	0.274	0.205	0.181	0.140	0.095
1.050	0.238	0.313	0.274	0.251	0.188	0.164	0.129	0.088
1.060	0.212	0.284	0.250	0.227	0.173	0.151	0.119	0.081
1.070	0.191	0.258	0.226	0.204	0.157	0.138	0.108	0.075
1.080	0.177	0.232	0.202	0.184	0.142	0.125	0.100	0.068
1.100	0.148	0.187	0.168	0.155	0.122	0.107	0.086	0.060
1.150	0.104	0.121	0.111	0.102	0.086	0.075	0.063	0.044
1.200	0.084	0.086	0.080	0.075	0.066	0.059	0.051	0.036
1.300	0.069	0.057	0.053	0.051	0.047	0.044	0.038	0.028

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (100.0 + depth) / 100.0

18 MV 25 X 25 cm Field Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.925	1.000	0.937	0.777	0.641	0.526	0.432	0.292
0.050	0.922	0.993	0.933	0.773	0.638	0.523	0.430	0.291
0.100	0.920	0.991	0.929	0.770	0.636	0.523	0.429	0.290
0.150	0.919	0.989	0.929	0.769	0.635	0.521	0.428	0.288
0.200	0.920	0.988	0.928	0.767	0.634	0.519	0.427	0.288
0.250	0.919	0.986	0.928	0.766	0.634	0.519	0.426	0.287
0.300	0.921	0.987	0.929	0.765	0.633	0.518	0.425	0.286
0.350	0.920	0.989	0.930	0.766	0.633	0.516	0.425	0.285
0.400	0.921	0.991	0.933	0.766	0.634	0.517	0.425	0.285
0.450	0.925	0.994	0.936	0.770	0.634	0.516	0.425	0.284
0.500	0.928	0.997	0.941	0.772	0.637	0.516	0.425	0.285
0.550	0.929	1.001	0.944	0.771	0.636	0.516	0.425	0.284
0.600	0.926	1.001	0.943	0.771	0.634	0.514	0.422	0.281
0.650	0.922	0.996	0.941	0.768	0.632	0.511	0.419	0.278
0.700	0.916	0.994	0.937	0.765	0.628	0.506	0.416	0.274
0.750	0.910	0.990	0.935	0.761	0.623	0.502	0.411	0.271
0.800	0.907	0.987	0.932	0.756	0.619	0.497	0.407	0.268
0.820	0.906	0.985	0.930	0.754	0.617	0.495	0.405	0.266
0.840	0.904	0.983	0.928	0.751	0.614	0.492	0.403	0.265
0.860	0.901	0.981	0.924	0.746	0.608	0.488	0.399	0.263
0.880	0.897	0.975	0.916	0.740	0.602	0.484	0.396	0.260
0.900	0.889	0.965	0.905	0.730	0.595	0.478	0.390	0.256
0.920	0.875	0.949	0.883	0.713	0.580	0.468	0.381	0.250
0.940	0.836	0.903	0.834	0.679	0.552	0.449	0.365	0.241
0.950	0.810	0.878	0.803	0.657	0.532	0.435	0.352	0.236
0.960	0.781	0.830	0.764	0.630	0.507	0.419	0.339	0.225
0.970	0.710	0.760	0.691	0.577	0.463	0.388	0.314	0.214
0.980	0.638	0.690	0.618	0.524	0.418	0.357	0.286	0.198
0.990	0.567	0.615	0.545	0.470	0.371	0.322	0.257	0.176
1.000	0.496	0.527	0.466	0.405	0.319	0.280	0.223	0.154
1.010	0.425	0.438	0.387	0.341	0.267	0.237	0.190	0.132
1.020	0.353	0.351	0.307	0.278	0.223	0.202	0.162	0.110
1.030	0.302	0.302	0.261	0.239	0.192	0.171	0.139	0.093
1.040	0.271	0.253	0.220	0.200	0.161	0.141	0.117	0.080
1.050	0.240	0.203	0.178	0.161	0.139	0.124	0.104	0.068
1.060	0.213	0.178	0.155	0.144	0.125	0.109	0.093	0.062
1.070	0.202	0.159	0.138	0.127	0.111	0.095	0.083	0.056
1.080	0.192	0.140	0.122	0.110	0.102	0.088	0.078	0.052
1.100	0.176	0.120	0.103	0.096	0.089	0.076	0.068	0.047
1.150	0.158	0.094	0.081	0.074	0.072	0.060	0.056	0.039
1.200	0.145	0.083	0.070	0.062	0.062	0.051	0.050	0.035
1.300	0.123	0.067	0.057	0.049	0.049	0.040		

x = Off-axis distance
h = Field half-width
x = 12.5 * x/h (100.0 + depth) / 100.0

18 MV 5 X 25 cm Field Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.813	1.000	0.954	0.776	0.626	0.504	0.406	0.261
0.050	0.813	1.000	0.954	0.775	0.626	0.504	0.406	0.261
0.100	0.813	1.002	0.956	0.774	0.627	0.505	0.406	0.261
0.150	0.814	1.003	0.955	0.772	0.626	0.504	0.405	0.262
0.200	0.813	1.001	0.955	0.771	0.624	0.502	0.407	0.262
0.250	0.812	1.000	0.954	0.770	0.624	0.501	0.406	0.261
0.300	0.810	0.998	0.952	0.769	0.622	0.500	0.404	0.260
0.350	0.810	0.995	0.948	0.766	0.620	0.499	0.403	0.259
0.400	0.808	0.993	0.944	0.764	0.617	0.498	0.402	0.258
0.450	0.806	0.989	0.940	0.760	0.615	0.495	0.400	0.257
0.500	0.803	0.983	0.936	0.756	0.611	0.493	0.396	0.256
0.550	0.799	0.974	0.928	0.749	0.606	0.488	0.393	0.254
0.600	0.792	0.963	0.914	0.742	0.599	0.482	0.390	0.251
0.650	0.781	0.950	0.897	0.732	0.588	0.476	0.384	0.248
0.700	0.769	0.930	0.876	0.717	0.576	0.467	0.377	0.244
0.750	0.750	0.901	0.848	0.695	0.558	0.453	0.367	0.237
0.800	0.716	0.862	0.808	0.665	0.534	0.436	0.352	0.228
0.820	0.699	0.842	0.790	0.649	0.522	0.426	0.344	0.223
0.840	0.677	0.820	0.764	0.632	0.507	0.417	0.335	0.219
0.860	0.654	0.790	0.736	0.614	0.490	0.404	0.324	0.212
0.880	0.627	0.759	0.707	0.589	0.472	0.390	0.312	0.205
0.900	0.594	0.724	0.670	0.563	0.449	0.375	0.299	0.198
0.920	0.561	0.683	0.634	0.536	0.426	0.356	0.285	0.189
0.940	0.525	0.642	0.595	0.505	0.401	0.338	0.270	0.180
0.950	0.505	0.620	0.574	0.489	0.388	0.329	0.261	0.175
0.960	0.486	0.598	0.553	0.474	0.375	0.319	0.253	0.171
0.970	0.466	0.576	0.532	0.458	0.362	0.308	0.244	0.166
0.980	0.447	0.553	0.511	0.442	0.349	0.298	0.236	0.161
0.990	0.428	0.531	0.490	0.425	0.336	0.288	0.227	0.156
1.000	0.409	0.508	0.470	0.409	0.323	0.278	0.219	0.151
1.010	0.390	0.487	0.450	0.393	0.310	0.268	0.210	0.145
1.020	0.372	0.466	0.431	0.377	0.297	0.258	0.202	0.140
1.030	0.353	0.445	0.411	0.362	0.284	0.248	0.194	0.135
1.040	0.334	0.425	0.391	0.346	0.273	0.238	0.186	0.130
1.050	0.319	0.404	0.372	0.331	0.261	0.229	0.179	0.126
1.060	0.304	0.384	0.355	0.316	0.249	0.219	0.171	0.121
1.070	0.289	0.367	0.338	0.301	0.237	0.210	0.164	0.116
1.080	0.274	0.350	0.321	0.288	0.227	0.200	0.157	0.111
1.100	0.245	0.316	0.288	0.263	0.207	0.183	0.144	0.102
1.150	0.190	0.245	0.223	0.209	0.165	0.148	0.117	0.083
1.200	0.152	0.193	0.175	0.167	0.133	0.122	0.095	0.069
1.300	0.109	0.126	0.115	0.113	0.092	0.086	0.070	0.050

x = Off-axis distance
h = Field half-width
x = 2.5 * x/h (100.0 + depth) / 100.0

18 MV 25 X 5 cm Field Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

x/h	Depth(cm) 1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.813	1.000	0.955	0.775	0.625	0.503	0.406	0.267
0.050	0.809	0.993	0.948	0.770	0.620	0.499	0.402	0.267
0.100	0.807	0.990	0.944	0.766	0.618	0.498	0.401	0.265
0.150	0.805	0.986	0.944	0.766	0.617	0.496	0.401	0.264
0.200	0.805	0.986	0.945	0.764	0.617	0.496	0.400	0.264
0.250	0.806	0.988	0.943	0.764	0.615	0.494	0.399	0.263
0.300	0.807	0.988	0.942	0.763	0.615	0.494	0.399	0.263
0.350	0.809	0.990	0.946	0.765	0.616	0.494	0.399	0.263
0.400	0.811	0.994	0.951	0.766	0.618	0.494	0.399	0.263
0.450	0.818	0.999	0.953	0.769	0.620	0.495	0.401	0.263
0.500	0.824	1.004	0.959	0.773	0.623	0.497	0.402	0.263
0.550	0.829	1.010	0.965	0.778	0.626	0.500	0.403	0.264
0.600	0.831	1.012	0.967	0.778	0.626	0.499	0.402	0.263
0.650	0.830	1.013	0.966	0.778	0.624	0.497	0.401	0.262
0.700	0.829	1.012	0.965	0.776	0.620	0.495	0.398	0.260
0.750	0.832	1.010	0.966	0.772	0.619	0.492	0.397	0.258
0.800	0.835	1.011	0.965	0.771	0.616	0.490	0.394	0.256
0.820	0.835	1.010	0.963	0.770	0.614	0.489	0.393	0.255
0.840	0.835	1.010	0.961	0.767	0.613	0.486	0.391	0.254
0.860	0.836	1.010	0.958	0.764	0.611	0.483	0.389	0.252
0.880	0.834	1.006	0.951	0.759	0.606	0.479	0.385	0.250
0.900	0.829	0.996	0.938	0.750	0.599	0.474	0.380	0.248
0.920	0.818	0.977	0.917	0.733	0.583	0.464	0.371	0.243
0.940	0.781	0.928	0.863	0.697	0.552	0.445	0.356	0.234
0.950	0.748	0.896	0.834	0.675	0.530	0.431	0.342	0.227
0.960	0.715	0.859	0.777	0.638	0.504	0.415	0.329	0.217
0.970	0.648	0.775	0.700	0.583	0.455	0.380	0.300	0.202
0.980	0.565	0.691	0.623	0.529	0.406	0.346	0.270	0.186
0.990	0.481	0.607	0.541	0.467	0.354	0.308	0.239	0.161
1.000	0.402	0.514	0.450	0.395	0.297	0.262	0.201	0.137
1.010	0.329	0.419	0.360	0.322	0.239	0.215	0.164	0.113
1.020	0.256	0.325	0.279	0.259	0.191	0.176	0.134	0.091
1.030	0.187	0.257	0.230	0.212	0.156	0.143	0.109	0.071
1.040	0.158	0.209	0.181	0.165	0.121	0.110	0.085	0.059
1.050	0.130	0.160	0.133	0.128	0.098	0.090	0.071	0.047
1.060	0.102	0.123	0.114	0.108	0.084	0.075	0.059	0.039
1.070	0.089	0.106	0.095	0.088	0.070	0.060	0.049	0.034
1.080	0.081	0.088	0.075	0.072	0.061	0.053	0.043	0.029
1.100	0.067	0.065	0.059	0.057	0.049	0.041	0.034	0.024
1.150	0.055	0.043	0.039	0.037	0.034	0.028	0.027	0.017
1.200	0.050	0.036	0.031	0.028	0.028	0.024	0.023	0.015
1.300	0.042	0.028	0.024	0.021	0.022	0.018		

x = Off-axis distance
h = Field half-width
x = 12.5 * x/h (100.0 + depth) / 100.0

18 MV 10 X 10 cm Field 85 cm SSD Test Case

SSD = 85.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.817	1.000	0.949	0.760	0.607	0.481	0.384	0.249
0.050	0.816	0.999	0.948	0.759	0.607	0.480	0.384	0.249
0.100	0.816	0.998	0.950	0.759	0.608	0.481	0.384	0.248
0.150	0.817	0.999	0.950	0.759	0.606	0.481	0.383	0.248
0.200	0.816	0.998	0.950	0.759	0.605	0.482	0.383	0.248
0.250	0.816	0.999	0.950	0.759	0.605	0.481	0.383	0.248
0.300	0.817	1.000	0.950	0.760	0.606	0.481	0.382	0.247
0.350	0.819	1.000	0.949	0.759	0.605	0.480	0.381	0.247
0.400	0.818	0.998	0.949	0.757	0.604	0.478	0.380	0.246
0.450	0.816	0.997	0.948	0.755	0.602	0.477	0.379	0.245
0.500	0.817	0.996	0.944	0.754	0.601	0.475	0.378	0.245
0.550	0.814	0.994	0.941	0.751	0.599	0.474	0.377	0.243
0.600	0.814	0.991	0.937	0.746	0.595	0.471	0.375	0.242
0.650	0.809	0.986	0.929	0.740	0.589	0.466	0.371	0.240
0.700	0.803	0.975	0.917	0.732	0.582	0.460	0.366	0.237
0.750	0.792	0.958	0.898	0.718	0.570	0.453	0.360	0.233
0.800	0.769	0.929	0.862	0.696	0.549	0.441	0.349	0.228
0.820	0.755	0.910	0.843	0.682	0.537	0.433	0.342	0.225
0.840	0.735	0.891	0.815	0.666	0.525	0.424	0.335	0.220
0.860	0.705	0.857	0.783	0.645	0.505	0.413	0.323	0.215
0.880	0.674	0.821	0.741	0.617	0.484	0.399	0.311	0.208
0.900	0.618	0.774	0.684	0.586	0.452	0.380	0.296	0.198
0.920	0.559	0.712	0.626	0.541	0.417	0.357	0.272	0.188
0.940	0.494	0.649	0.552	0.495	0.375	0.326	0.249	0.173
0.950	0.458	0.608	0.515	0.467	0.352	0.311	0.237	0.165
0.960	0.423	0.567	0.477	0.438	0.329	0.294	0.223	0.157
0.970	0.388	0.526	0.443	0.409	0.306	0.275	0.209	0.149
0.980	0.354	0.485	0.410	0.380	0.285	0.257	0.196	0.140
0.990	0.327	0.447	0.378	0.352	0.263	0.239	0.182	0.132
1.000	0.300	0.413	0.345	0.327	0.242	0.222	0.168	0.123
1.010	0.273	0.379	0.312	0.301	0.221	0.205	0.154	0.114
1.020	0.246	0.345	0.289	0.275	0.205	0.188	0.144	0.105
1.030	0.223	0.311	0.267	0.250	0.189	0.171	0.134	0.097
1.040	0.208	0.286	0.245	0.232	0.173	0.158	0.125	0.090
1.050	0.193	0.264	0.223	0.214	0.158	0.146	0.115	0.084
1.060	0.178	0.243	0.203	0.196	0.147	0.134	0.105	0.077
1.070	0.163	0.222	0.190	0.178	0.137	0.122	0.097	0.071
1.080	0.152	0.200	0.176	0.166	0.127	0.114	0.091	0.065
1.100	0.136	0.174	0.150	0.143	0.110	0.100	0.080	0.057
1.150	0.106	0.123	0.107	0.102	0.083	0.073	0.060	0.041
1.200	0.089	0.093	0.082	0.078	0.066	0.057	0.048	0.033
1.300	0.072	0.063	0.056	0.054	0.048	0.041	0.036	0.024

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (85.0 + depth) / 100.0

18 MV 9 X 9 cm Wedge Field Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.802	1.000	0.969	0.787	0.640	0.516	0.418	0.275
0.050	0.792	0.983	0.957	0.779	0.634	0.510	0.418	0.272
0.100	0.782	0.974	0.945	0.769	0.627	0.506	0.412	0.269
0.150	0.775	0.966	0.931	0.759	0.618	0.501	0.407	0.266
0.200	0.768	0.955	0.923	0.750	0.612	0.493	0.403	0.263
0.250	0.759	0.943	0.915	0.744	0.605	0.487	0.399	0.259
0.300	0.750	0.932	0.902	0.736	0.597	0.482	0.394	0.256
0.350	0.744	0.925	0.894	0.727	0.589	0.476	0.389	0.253
0.400	0.733	0.916	0.885	0.715	0.583	0.471	0.384	0.249
0.450	0.728	0.905	0.872	0.705	0.578	0.464	0.379	0.246
0.500	0.721	0.892	0.861	0.697	0.570	0.457	0.374	0.244
0.550	0.712	0.881	0.849	0.689	0.561	0.450	0.369	0.238
0.600	0.704	0.870	0.839	0.679	0.552	0.444	0.364	0.234
0.650	0.695	0.857	0.827	0.667	0.544	0.435	0.358	0.230
0.700	0.685	0.843	0.809	0.652	0.533	0.427	0.351	0.226
0.750	0.673	0.825	0.790	0.637	0.520	0.417	0.344	0.221
0.800	0.655	0.800	0.764	0.619	0.502	0.405	0.333	0.216
0.820	0.646	0.789	0.751	0.610	0.493	0.399	0.327	0.213
0.840	0.633	0.773	0.733	0.597	0.483	0.392	0.321	0.209
0.860	0.620	0.756	0.713	0.583	0.472	0.384	0.314	0.204
0.880	0.598	0.733	0.689	0.566	0.457	0.374	0.306	0.200
0.900	0.576	0.708	0.658	0.545	0.439	0.362	0.295	0.194
0.920	0.541	0.674	0.623	0.521	0.417	0.347	0.281	0.188
0.940	0.499	0.631	0.575	0.491	0.391	0.329	0.264	0.178
0.950	0.478	0.609	0.551	0.476	0.374	0.317	0.255	0.172
0.960	0.453	0.585	0.527	0.455	0.357	0.306	0.244	0.167
0.970	0.426	0.554	0.497	0.434	0.340	0.294	0.232	0.160
0.980	0.399	0.524	0.467	0.412	0.321	0.279	0.221	0.153
0.990	0.372	0.494	0.437	0.391	0.302	0.264	0.209	0.146
1.000	0.345	0.464	0.407	0.368	0.282	0.249	0.196	0.138
1.010	0.320	0.434	0.378	0.345	0.263	0.233	0.184	0.130
1.020	0.295	0.403	0.350	0.322	0.245	0.218	0.172	0.122
1.030	0.270	0.373	0.323	0.298	0.228	0.203	0.161	0.114
1.040	0.245	0.343	0.296	0.276	0.211	0.188	0.151	0.106
1.050	0.225	0.315	0.269	0.256	0.194	0.174	0.141	0.098
1.060	0.207	0.291	0.250	0.236	0.180	0.162	0.130	0.091
1.070	0.190	0.267	0.231	0.216	0.168	0.151	0.122	0.085
1.080	0.172	0.243	0.211	0.197	0.155	0.139	0.113	0.078
1.100	0.145	0.202	0.177	0.169	0.133	0.120	0.097	0.067
1.150	0.102	0.133	0.120	0.115	0.095	0.084	0.071	0.047
1.200	0.080	0.096	0.088	0.085	0.073	0.063	0.056	0.037
1.300	0.063	0.061	0.058	0.055	0.052	0.043	0.042	0.026

x = Off-axis distance
h = Field half-width
x = 4.5 * x/h (100.0 + depth) / 100.0

18 MV 9 X 9 cm Wedge Field Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles right of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.802	1.000	0.969	0.787	0.640	0.516	0.418	0.275
0.050	0.813	1.013	0.980	0.798	0.648	0.523	0.416	0.277
0.100	0.821	1.027	0.994	0.806	0.655	0.530	0.428	0.281
0.150	0.828	1.037	1.005	0.815	0.663	0.534	0.436	0.284
0.200	0.839	1.048	1.017	0.824	0.672	0.541	0.442	0.289
0.250	0.847	1.059	1.028	0.832	0.678	0.547	0.445	0.291
0.300	0.855	1.071	1.039	0.841	0.682	0.553	0.448	0.292
0.350	0.864	1.080	1.054	0.851	0.691	0.557	0.452	0.294
0.400	0.871	1.091	1.060	0.859	0.699	0.560	0.456	0.297
0.450	0.881	1.100	1.067	0.866	0.706	0.565	0.459	0.297
0.500	0.890	1.109	1.079	0.871	0.708	0.570	0.462	0.300
0.550	0.900	1.119	1.088	0.878	0.712	0.571	0.466	0.303
0.600	0.908	1.134	1.093	0.882	0.713	0.573	0.467	0.304
0.650	0.912	1.143	1.099	0.888	0.714	0.575	0.468	0.302
0.700	0.919	1.143	1.103	0.885	0.712	0.576	0.466	0.301
0.750	0.924	1.133	1.098	0.874	0.708	0.569	0.463	0.300
0.800	0.917	1.110	1.083	0.857	0.698	0.554	0.453	0.294
0.820	0.911	1.093	1.067	0.847	0.689	0.546	0.448	0.290
0.840	0.900	1.076	1.051	0.829	0.678	0.538	0.441	0.284
0.860	0.883	1.045	1.025	0.808	0.662	0.523	0.431	0.276
0.880	0.862	1.012	0.995	0.776	0.644	0.507	0.417	0.265
0.900	0.825	0.960	0.952	0.742	0.616	0.479	0.401	0.251
0.920	0.788	0.898	0.901	0.691	0.586	0.450	0.377	0.234
0.940	0.726	0.823	0.838	0.639	0.540	0.411	0.352	0.214
0.950	0.694	0.779	0.800	0.606	0.517	0.391	0.334	0.202
0.960	0.662	0.735	0.762	0.571	0.492	0.370	0.317	0.190
0.970	0.628	0.692	0.723	0.536	0.464	0.347	0.299	0.178
0.980	0.588	0.646	0.683	0.502	0.436	0.325	0.281	0.166
0.990	0.547	0.600	0.638	0.468	0.408	0.302	0.263	0.154
1.000	0.506	0.553	0.592	0.435	0.380	0.280	0.244	0.143
1.010	0.465	0.507	0.547	0.401	0.353	0.259	0.225	0.133
1.020	0.427	0.461	0.501	0.368	0.327	0.238	0.208	0.123
1.030	0.392	0.425	0.463	0.338	0.300	0.217	0.192	0.113
1.040	0.357	0.390	0.425	0.313	0.274	0.200	0.176	0.104
1.050	0.322	0.355	0.388	0.287	0.254	0.185	0.161	0.097
1.060	0.286	0.319	0.350	0.262	0.234	0.170	0.149	0.090
1.070	0.263	0.292	0.320	0.239	0.214	0.154	0.138	0.083
1.080	0.241	0.270	0.295	0.222	0.195	0.144	0.127	0.078
1.100	0.196	0.226	0.246	0.189	0.169	0.125	0.109	0.067
1.150	0.132	0.151	0.165	0.131	0.118	0.092	0.079	0.053
1.200	0.100	0.110	0.119	0.099	0.088	0.073	0.063	0.043
1.300	0.074	0.074	0.074	0.069	0.062	0.054	0.047	0.034

x = Off-axis distance
h = Field half-width
x = 4.5 * x/h (100.0 + depth) / 100.0

18 MV Central Block Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 4.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.217	0.205	0.202	0.186	0.169	0.144	0.124	0.088
0.050	0.265	0.257	0.255	0.222	0.198	0.167	0.145	0.100
0.100	0.462	0.472	0.471	0.385	0.340	0.267	0.234	0.154
0.150	0.719	0.782	0.750	0.615	0.520	0.417	0.349	0.233
0.200	0.804	0.915	0.871	0.714	0.590	0.478	0.393	0.263
0.250	0.833	0.966	0.915	0.752	0.616	0.501	0.409	0.274
0.300	0.843	0.986	0.937	0.769	0.626	0.510	0.415	0.277
0.350	0.848	0.994	0.944	0.776	0.630	0.512	0.418	0.278
0.400	0.850	0.996	0.948	0.778	0.633	0.513	0.417	0.278
0.450	0.850	0.999	0.950	0.779	0.633	0.513	0.416	0.278
0.500	0.849	1.000	0.954	0.782	0.635	0.514	0.416	0.278
0.550	0.852	1.002	0.954	0.785	0.635	0.513	0.416	0.279
0.600	0.854	1.004	0.956	0.786	0.635	0.514	0.416	0.278
0.650	0.857	1.006	0.960	0.785	0.637	0.514	0.416	0.278
0.700	0.859	1.012	0.962	0.786	0.636	0.513	0.414	0.277
0.750	0.856	1.010	0.958	0.782	0.631	0.510	0.412	0.273
0.800	0.855	1.006	0.952	0.776	0.625	0.504	0.406	0.270
0.820	0.853	1.002	0.947	0.772	0.621	0.501	0.404	0.267
0.840	0.850	0.997	0.942	0.765	0.615	0.497	0.401	0.265
0.860	0.846	0.986	0.930	0.757	0.609	0.490	0.397	0.262
0.880	0.837	0.971	0.915	0.744	0.596	0.482	0.389	0.258
0.900	0.821	0.950	0.888	0.723	0.580	0.470	0.378	0.252
0.920	0.797	0.911	0.851	0.697	0.560	0.452	0.363	0.243
0.940	0.746	0.863	0.796	0.651	0.520	0.426	0.340	0.230
0.950	0.714	0.818	0.760	0.626	0.499	0.409	0.324	0.220
0.960	0.682	0.768	0.709	0.593	0.468	0.391	0.305	0.210
0.970	0.631	0.719	0.659	0.549	0.433	0.364	0.285	0.196
0.980	0.575	0.664	0.608	0.506	0.398	0.336	0.263	0.182
0.990	0.519	0.599	0.548	0.461	0.361	0.307	0.238	0.167
1.000	0.466	0.534	0.487	0.414	0.322	0.277	0.214	0.151
1.010	0.416	0.469	0.426	0.366	0.283	0.246	0.192	0.135
1.020	0.366	0.415	0.374	0.319	0.249	0.216	0.171	0.121
1.030	0.317	0.362	0.328	0.284	0.221	0.193	0.149	0.108
1.040	0.283	0.309	0.282	0.249	0.193	0.171	0.135	0.095
1.050	0.254	0.266	0.240	0.215	0.169	0.148	0.120	0.085
1.060	0.226	0.237	0.215	0.190	0.153	0.134	0.106	0.077
1.070	0.201	0.207	0.189	0.171	0.136	0.121	0.098	0.069
1.080	0.188	0.178	0.164	0.151	0.122	0.107	0.089	0.064
1.100	0.162	0.149	0.136	0.124	0.105	0.092	0.076	0.055
1.150	0.134	0.102	0.092	0.086	0.078	0.068	0.058	0.043
1.200	0.122	0.083	0.074	0.069	0.064	0.057	0.049	0.036
1.300	0.109	0.067	0.058	0.053	0.050	0.044	0.039	0.030

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (100.0 + depth) / 100.0

18 MV Off-Center Plane Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0	35.0
0.000	0.802	1.000	0.961	0.792	0.641	0.519	0.420	0.281
0.050	0.801	1.000	0.962	0.794	0.641	0.517	0.420	0.281
0.100	0.802	0.998	0.964	0.794	0.641	0.516	0.420	0.280
0.150	0.804	0.999	0.962	0.793	0.641	0.516	0.420	0.279
0.200	0.803	1.000	0.961	0.793	0.641	0.515	0.419	0.280
0.250	0.802	0.998	0.961	0.792	0.639	0.515	0.418	0.280
0.300	0.802	0.998	0.958	0.793	0.640	0.514	0.417	0.280
0.350	0.798	1.000	0.961	0.791	0.638	0.512	0.416	0.278
0.400	0.799	1.000	0.961	0.789	0.638	0.513	0.415	0.277
0.450	0.799	0.999	0.960	0.788	0.637	0.512	0.414	0.276
0.500	0.800	0.997	0.959	0.785	0.635	0.509	0.413	0.275
0.550	0.799	0.994	0.956	0.784	0.633	0.510	0.411	0.274
0.600	0.797	0.994	0.953	0.781	0.629	0.506	0.410	0.272
0.650	0.798	0.990	0.949	0.777	0.627	0.503	0.407	0.271
0.700	0.796	0.985	0.945	0.772	0.623	0.499	0.403	0.269
0.750	0.793	0.978	0.935	0.764	0.615	0.492	0.397	0.266
0.800	0.782	0.960	0.917	0.748	0.604	0.482	0.390	0.262
0.820	0.776	0.948	0.903	0.737	0.596	0.477	0.384	0.259
0.840	0.765	0.931	0.888	0.725	0.586	0.470	0.379	0.255
0.860	0.750	0.910	0.867	0.707	0.572	0.460	0.371	0.250
0.880	0.728	0.882	0.843	0.686	0.557	0.449	0.361	0.243
0.900	0.699	0.845	0.804	0.658	0.533	0.432	0.350	0.235
0.920	0.658	0.792	0.760	0.622	0.505	0.411	0.330	0.222
0.940	0.603	0.730	0.695	0.574	0.466	0.383	0.311	0.209
0.950	0.576	0.689	0.662	0.550	0.446	0.368	0.299	0.200
0.960	0.541	0.648	0.625	0.518	0.421	0.349	0.284	0.189
0.970	0.503	0.607	0.584	0.486	0.395	0.330	0.268	0.178
0.980	0.465	0.563	0.543	0.453	0.369	0.311	0.252	0.168
0.990	0.427	0.517	0.502	0.421	0.343	0.290	0.236	0.157
1.000	0.391	0.471	0.462	0.389	0.318	0.268	0.220	0.146
1.010	0.356	0.425	0.423	0.356	0.293	0.247	0.204	0.135
1.020	0.321	0.385	0.385	0.324	0.267	0.227	0.188	0.124
1.030	0.287	0.350	0.346	0.295	0.244	0.208	0.172	0.113
1.040	0.258	0.315	0.313	0.270	0.223	0.190	0.156	0.103
1.050	0.234	0.279	0.285	0.246	0.202	0.171	0.141	0.095
1.060	0.211	0.250	0.257	0.221	0.181	0.157	0.131	0.088
1.070	0.187	0.228	0.229	0.201	0.167	0.144	0.120	0.080
1.080	0.168	0.206	0.207	0.184	0.152	0.130	0.109	0.073
1.100	0.142	0.165	0.173	0.150	0.125	0.110	0.090	0.063
1.150	0.097	0.109	0.110	0.100	0.087	0.075	0.063	0.045
1.200	0.077	0.078	0.077	0.073	0.065	0.057	0.049	0.036
1.300	0.061	0.052	0.049	0.049	0.046	0.043	0.036	0.028

x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (100.0 + depth) / 100.0

18 MV Irregular Field Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 6.0 cm Off Axis

	Depth(cm)						
x/h	1.0	3.0	5.0	10.0	15.0	20.0	25.0
0.000	0.072	0.057	0.053	0.049	0.048	0.043	
0.050	0.074	0.057	0.054	0.050	0.050	0.044	
0.100	0.076	0.059	0.055	0.052	0.051	0.045	0.042
0.150	0.078	0.060	0.057	0.054	0.054	0.048	0.044
0.200	0.080	0.062	0.059	0.057	0.057	0.051	0.046
0.250	0.084	0.067	0.065	0.062	0.061	0.055	0.050
0.300	0.090	0.077	0.077	0.072	0.070	0.062	0.055
0.350	0.103	0.098	0.103	0.093	0.087	0.074	0.065
0.400	0.141	0.158	0.161	0.137	0.124	0.102	0.086
0.450	0.281	0.314	0.335	0.264	0.229	0.174	0.147
0.500	0.583	0.658	0.666	0.525	0.438	0.341	0.291
0.550	0.724	0.872	0.844	0.677	0.551	0.442	0.360
0.600	0.772	0.949	0.911	0.735	0.591	0.476	0.385
0.650	0.790	0.982	0.939	0.757	0.609	0.490	0.395
0.700	0.798	0.995	0.952	0.770	0.617	0.497	0.398
0.750	0.805	1.003	0.961	0.776	0.621	0.500	0.401
0.800	0.810	1.006	0.961	0.776	0.620	0.500	0.400
0.820	0.811	1.005	0.958	0.774	0.618	0.498	0.398
0.840	0.808	1.003	0.952	0.769	0.614	0.495	0.396
0.860	0.805	0.996	0.942	0.762	0.609	0.490	0.393
0.880	0.800	0.983	0.929	0.750	0.598	0.482	0.387
0.900	0.786	0.962	0.902	0.732	0.582	0.472	0.377
0.920	0.764	0.922	0.867	0.708	0.560	0.454	0.363
0.940	0.716	0.875	0.807	0.660	0.521	0.427	0.340
0.950	0.686	0.826	0.777	0.635	0.500	0.409	0.324
0.960	0.656	0.778	0.723	0.600	0.469	0.391	0.305
0.970	0.605	0.729	0.669	0.555	0.434	0.363	0.284
0.980	0.550	0.671	0.615	0.511	0.398	0.334	0.260
0.990	0.496	0.603	0.557	0.465	0.361	0.306	0.235
1.000	0.442	0.535	0.496	0.416	0.321	0.274	0.211
1.010	0.391	0.467	0.434	0.367	0.282	0.243	0.187
1.020	0.340	0.414	0.375	0.318	0.247	0.212	0.164
1.030	0.290	0.360	0.330	0.282	0.218	0.188	0.144
1.040	0.256	0.306	0.285	0.247	0.188	0.165	0.126
1.050	0.228	0.265	0.241	0.211	0.164	0.142	0.111
1.060	0.199	0.235	0.212	0.187	0.147	0.128	0.099
1.070	0.175	0.204	0.189	0.167	0.131	0.114	0.089
1.080	0.162	0.174	0.165	0.146	0.117	0.100	0.081
1.100	0.137	0.145	0.134	0.119	0.099	0.085	0.069
1.150	0.109	0.096	0.090	0.081	0.072	0.062	0.052
1.200	0.100	0.079	0.073	0.065	0.059	0.051	0.043
1.300	0.090	0.063	0.057	0.050	0.046	0.040	0.035

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (100.0 + depth) / 100.0

18 MV Lung Inhomogeneity Test Case 16 X 16 cm Field

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)						
x/h	11.0	11.5	12.0	15.0	20.0	25.0	35.0
0.000	0.822	0.805	0.788	0.703	0.576	0.470	0.313
0.050	0.822	0.804	0.788	0.701	0.576	0.468	0.312
0.100	0.819	0.800	0.784	0.699	0.571	0.466	0.310
0.150	0.813	0.793	0.779	0.693	0.567	0.462	0.309
0.200	0.806	0.785	0.771	0.687	0.562	0.457	0.305
0.250	0.792	0.776	0.757	0.675	0.551	0.450	0.299
0.300	0.772	0.757	0.742	0.660	0.539	0.439	0.291
0.350	0.751	0.736	0.721	0.640	0.524	0.426	0.284
0.400	0.743	0.727	0.713	0.631	0.517	0.420	0.279
0.450	0.742	0.722	0.711	0.629	0.513	0.417	0.278
0.500	0.741	0.722	0.710	0.627	0.511	0.416	0.275
0.550	0.739	0.723	0.710	0.625	0.508	0.415	0.274
0.600	0.739	0.722	0.710	0.626	0.508	0.413	0.274
0.650	0.739	0.720	0.708	0.624	0.506	0.410	0.272
0.700	0.738	0.721	0.706	0.622	0.503	0.409	0.270
0.750	0.734	0.719	0.703	0.618	0.500	0.405	0.269
0.800	0.727	0.710	0.697	0.612	0.494	0.400	0.264
0.820	0.723	0.706	0.691	0.608	0.490	0.397	0.262
0.840	0.716	0.699	0.684	0.603	0.485	0.394	0.260
0.860	0.707	0.690	0.673	0.594	0.478	0.389	0.256
0.880	0.691	0.676	0.660	0.583	0.469	0.381	0.251
0.900	0.669	0.655	0.639	0.565	0.455	0.371	0.244
0.920	0.638	0.626	0.605	0.540	0.431	0.356	0.234
0.940	0.583	0.579	0.561	0.502	0.397	0.329	0.217
0.950	0.554	0.551	0.524	0.476	0.374	0.315	0.206
0.960	0.516	0.510	0.487	0.444	0.351	0.294	0.192
0.970	0.471	0.470	0.451	0.411	0.322	0.272	0.179
0.980	0.426	0.430	0.407	0.377	0.292	0.249	0.164
0.990	0.381	0.387	0.363	0.340	0.261	0.226	0.149
1.000	0.338	0.343	0.319	0.303	0.234	0.203	0.133
1.010	0.295	0.300	0.283	0.267	0.207	0.180	0.120
1.020	0.253	0.267	0.249	0.238	0.181	0.162	0.107
1.030	0.225	0.236	0.215	0.208	0.162	0.143	0.095
1.040	0.197	0.204	0.190	0.181	0.145	0.126	0.086
1.050	0.169	0.181	0.169	0.163	0.127	0.114	0.077
1.060	0.153	0.162	0.149	0.145	0.116	0.103	0.070
1.070	0.139	0.143	0.133	0.127	0.106	0.092	0.064
1.080	0.125	0.128	0.122	0.118	0.096	0.085	0.058
1.100	0.107	0.108	0.102	0.098	0.084	0.073	0.052
1.150	0.079	0.079	0.078	0.074	0.065	0.057	0.041
1.200	0.066	0.065	0.065	0.061	0.056	0.049	0.036
1.300	0.052	0.050	0.051	0.048	0.044	0.039	0.030

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (100.0 + depth) / 100.0

18 MV Lung Inhomogeneity Test Case 6 X 6 cm Field

SSD = 100 cm
Field size definition distance = 100 cm
Profiles left of central axis

	Depth (cm)						
x/h	11.0	11.5	12.0	15.0	20.0	25.0	35.0
0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0.050	0.999	1.001	0.997	0.999	0.999	0.999	0.999
0.100	0.997	0.997	0.997	0.996	0.998	0.996	0.992
0.150	1.000	0.998	1.000	0.994	0.995	0.992	0.990
0.200	0.995	0.996	0.993	0.988	0.989	0.990	0.990
0.250	0.996	0.997	0.995	0.988	0.988	0.993	0.988
0.300	0.997	0.994	0.990	0.984	0.979	0.983	0.977
0.350	0.994	0.989	0.988	0.979	0.973	0.980	0.981
0.400	0.996	0.984	0.979	0.973	0.968	0.973	0.974
0.450	0.991	0.975	0.973	0.966	0.963	0.964	0.967
0.500	0.984	0.973	0.965	0.957	0.955	0.960	0.960
0.550	0.976	0.960	0.956	0.948	0.940	0.945	0.952
0.600	0.962	0.948	0.944	0.932	0.927	0.930	0.937
0.650	0.943	0.930	0.925	0.916	0.912	0.912	0.917
0.700	0.921	0.907	0.901	0.890	0.890	0.890	0.901
0.750	0.889	0.872	0.870	0.853	0.856	0.861	0.873
0.800	0.839	0.818	0.819	0.805	0.814	0.816	0.835
0.820	0.812	0.791	0.794	0.780	0.794	0.793	0.817
0.840	0.781	0.759	0.764	0.751	0.768	0.767	0.789
0.860	0.749	0.724	0.729	0.718	0.737	0.738	0.759
0.880	0.706	0.683	0.692	0.681	0.699	0.702	0.729
0.900	0.662	0.638	0.648	0.637	0.655	0.661	0.692
0.920	0.613	0.588	0.598	0.589	0.610	0.616	0.653
0.940	0.561	0.535	0.547	0.539	0.564	0.569	0.608
0.950	0.533	0.509	0.521	0.515	0.540	0.546	0.583
0.960	0.506	0.482	0.496	0.491	0.517	0.523	0.557
0.970	0.480	0.457	0.470	0.467	0.493	0.501	0.531
0.980	0.454	0.434	0.445	0.443	0.468	0.479	0.506
0.990	0.429	0.410	0.419	0.420	0.443	0.455	0.482
1.000	0.405	0.388	0.394	0.398	0.420	0.431	0.458
1.010	0.382	0.366	0.371	0.376	0.397	0.409	0.435
1.020	0.359	0.345	0.350	0.355	0.376	0.388	0.412
1.030	0.338	0.325	0.330	0.333	0.355	0.368	0.391
1.040	0.317	0.306	0.311	0.315	0.334	0.348	0.370
1.050	0.299	0.288	0.293	0.296	0.314	0.328	0.351
1.060	0.280	0.270	0.275	0.279	0.294	0.310	0.332
1.070	0.263	0.254	0.259	0.263	0.278	0.293	0.314
1.080	0.247	0.240	0.243	0.248	0.261	0.276	0.296
1.100	0.219	0.213	0.216	0.221	0.233	0.248	0.266
1.150	0.163	0.161	0.161	0.167	0.178	0.193	0.210
1.200	0.126	0.124	0.124	0.131	0.138	0.152	0.170
1.300	0.084	0.083	0.082	0.089	0.096	0.109	0.129

x = Off-axis distance
h = Field half-width
x = 3.0 * x/h (100.0 + depth) / 100.0

18 MV Bone Inhomogeneity Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)						
x/h	7.5	8.0	10.0	15.0	20.0	25.0	35.0
0.000	0.849	0.833	0.769	0.628	0.512	0.417	0.279
0.050	0.851	0.834	0.769	0.628	0.512	0.417	0.279
0.100	0.854	0.836	0.774	0.630	0.513	0.418	0.280
0.150	0.857	0.839	0.777	0.632	0.515	0.419	0.280
0.200	0.859	0.839	0.777	0.632	0.515	0.420	0.281
0.250	0.857	0.839	0.779	0.632	0.516	0.419	0.279
0.300	0.857	0.838	0.777	0.631	0.515	0.418	0.279
0.350	0.858	0.837	0.775	0.631	0.514	0.417	0.278
0.400	0.855	0.837	0.775	0.629	0.513	0.416	0.277
0.450	0.855	0.837	0.774	0.628	0.512	0.415	0.275
0.500	0.853	0.835	0.773	0.627	0.510	0.413	0.274
0.550	0.853	0.833	0.772	0.625	0.508	0.412	0.274
0.600	0.853	0.832	0.770	0.625	0.506	0.410	0.272
0.650	0.852	0.833	0.770	0.623	0.504	0.408	0.270
0.700	0.852	0.832	0.769	0.620	0.502	0.407	0.269
0.750	0.850	0.829	0.766	0.618	0.499	0.404	0.267
0.800	0.842	0.823	0.759	0.612	0.494	0.399	0.263
0.820	0.837	0.819	0.753	0.608	0.490	0.396	0.261
0.840	0.829	0.813	0.747	0.602	0.485	0.393	0.259
0.860	0.821	0.803	0.739	0.595	0.479	0.389	0.256
0.880	0.804	0.790	0.723	0.585	0.470	0.382	0.252
0.900	0.782	0.769	0.703	0.570	0.458	0.372	0.245
0.920	0.747	0.735	0.672	0.549	0.438	0.359	0.236
0.940	0.692	0.692	0.623	0.511	0.409	0.336	0.222
0.950	0.658	0.653	0.593	0.491	0.388	0.324	0.211
0.960	0.624	0.613	0.564	0.460	0.367	0.305	0.199
0.970	0.575	0.573	0.517	0.429	0.339	0.284	0.187
0.980	0.522	0.525	0.470	0.398	0.309	0.264	0.172
0.990	0.470	0.472	0.423	0.361	0.280	0.240	0.157
1.000	0.419	0.420	0.378	0.324	0.251	0.216	0.142
1.010	0.370	0.370	0.334	0.287	0.223	0.193	0.127
1.020	0.321	0.328	0.289	0.256	0.195	0.173	0.112
1.030	0.275	0.286	0.253	0.225	0.175	0.153	0.100
1.040	0.244	0.243	0.224	0.195	0.156	0.134	0.090
1.050	0.213	0.218	0.195	0.174	0.136	0.121	0.079
1.060	0.182	0.192	0.169	0.155	0.124	0.108	0.073
1.070	0.164	0.167	0.154	0.136	0.113	0.097	0.066
1.080	0.148	0.150	0.138	0.123	0.101	0.089	0.060
1.100	0.120	0.123	0.114	0.104	0.088	0.076	0.052
1.150	0.086	0.085	0.083	0.076	0.067	0.058	0.042
1.200	0.070	0.068	0.068	0.062	0.056	0.049	0.036
1.300	0.054	0.052	0.053	0.048	0.045	0.039	0.030

x = Off-axis distance
h = Field half-width
x = 8.0 * x/h (100.0 + depth) / 100.0

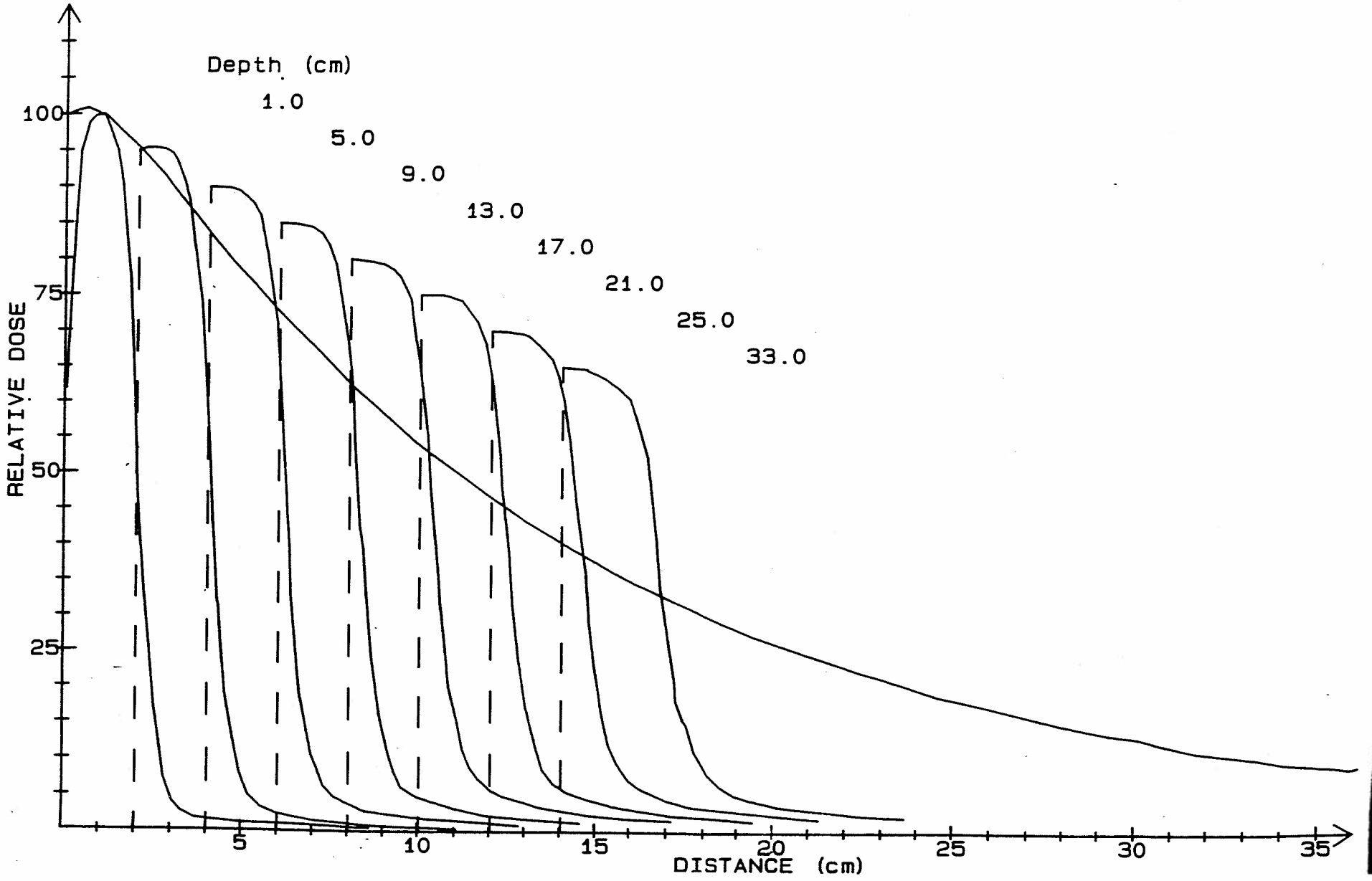
18 MV Oblique Incidence Test Case

SSD = 100.0
Field size definition distance = 100.0
Profiles left of central axis

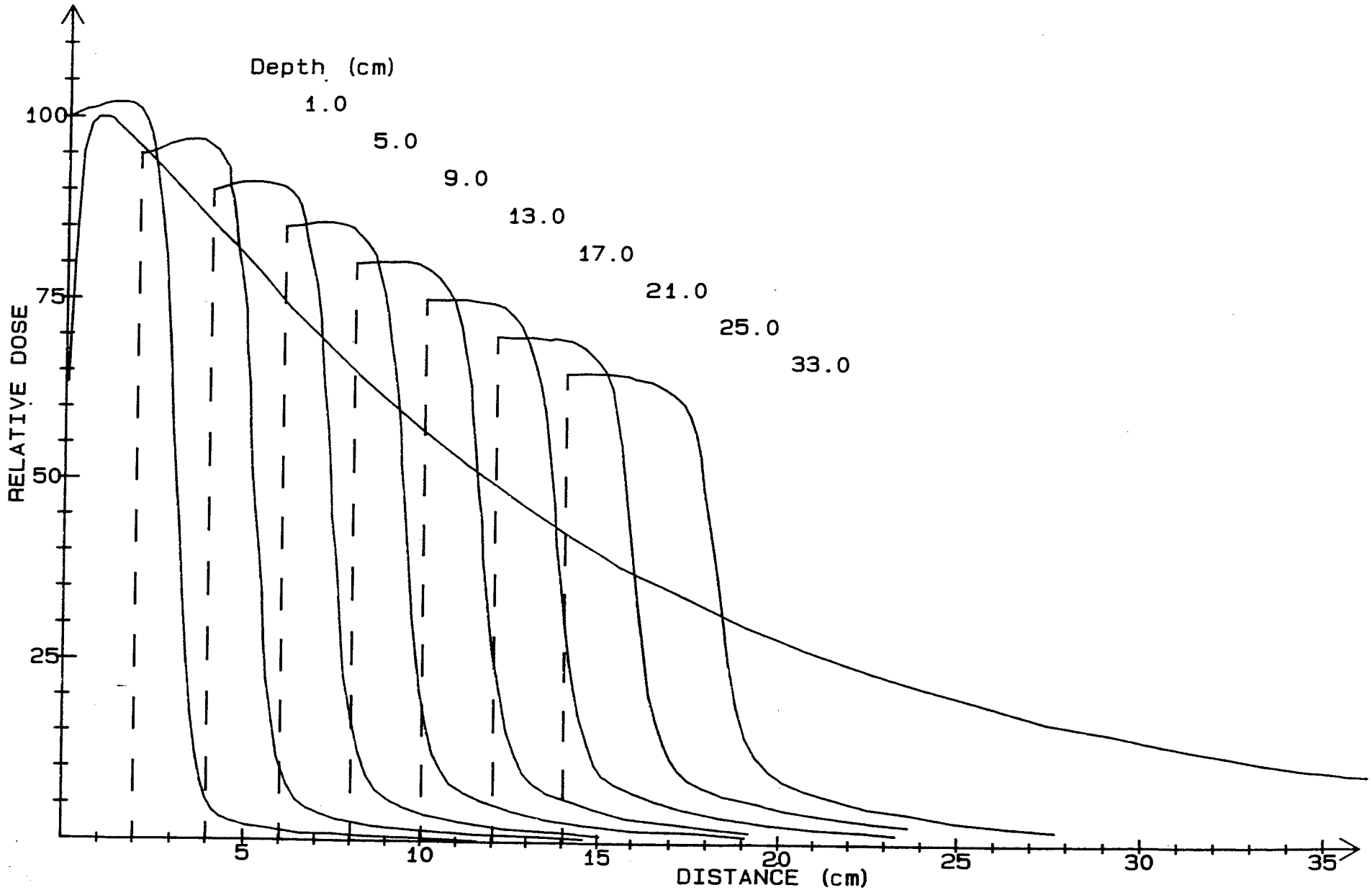
Dose Relative to 3.0 cm depth, 0.0 cm Off Axis

	Depth(cm)							
x/h	1.0	2.1	3.0	5.0	10.0	15.0	20.0	25.0
0.000	0.918	1.015	1.000	0.905	0.674	0.501	0.371	0.278
0.050	0.920	1.017	1.002	0.899	0.599	0.479	0.342	0.240
0.100	0.920	1.020	1.003	0.887	0.547	0.455	0.350	0.275
0.150	0.923	1.021	1.003	0.869	0.501	0.427	0.331	0.290
0.200	0.927	1.023	1.006	0.837	0.475	0.410	0.305	0.232
0.250	0.927	1.024	1.006	0.785	0.445	0.391	0.296	0.256
0.300	0.931	1.027	1.002	0.702	0.416	0.364	0.263	0.247
0.350	0.933	1.029	1.000	0.577	0.390	0.352	0.267	0.256
0.400	0.933	1.028	0.993	0.429	0.370	0.337	0.259	0.231
0.450	0.937	1.026	0.981	0.294	0.350	0.332	0.265	0.213
0.500	0.936	1.026	0.959	0.193	0.330	0.309	0.251	0.239
0.550	0.937	1.023	0.923	0.134	0.312	0.280	0.246	0.233
0.600	0.935	1.013	0.862	0.099	0.296	0.273	0.226	0.232
0.650	0.935	0.996	0.763	0.077	0.286	0.268	0.215	0.213
0.700	0.939	0.966	0.615	0.062	0.273	0.275	0.193	0.189
0.750	0.934	0.913	0.444	0.053	0.256	0.260	0.203	0.218
0.800	0.928	0.827	0.296	0.046	0.249	0.250	0.185	0.198
0.820	0.924	0.780	0.249	0.044	0.241	0.254	0.179	0.215
0.840	0.918	0.723	0.211	0.042	0.234	0.256	0.176	0.224
0.860	0.911	0.661	0.178	0.040	0.232	0.252	0.182	0.212
0.880	0.904	0.590	0.153	0.038	0.230	0.243	0.186	0.207
0.900	0.892	0.520	0.131	0.036	0.225	0.229	0.183	0.207
0.920	0.880	0.449	0.116	0.035	0.220	0.224	0.179	0.227
0.940	0.859	0.382	0.101	0.034	0.219	0.229	0.173	0.245
0.950	0.848	0.354	0.096	0.033	0.219	0.229	0.171	0.240
0.960	0.838	0.326	0.091	0.033	0.217	0.224	0.171	0.234
0.970	0.824	0.298	0.086	0.032	0.212	0.220	0.171	0.228
0.980	0.810	0.271	0.081	0.032	0.208	0.216	0.171	0.238
0.990	0.795	0.250	0.077	0.031	0.203	0.213	0.171	0.253
1.000	0.780	0.229	0.074	0.031	0.202	0.210	0.171	0.267
1.010	0.761	0.208	0.071	0.030	0.203	0.207	0.171	0.275
1.020	0.736	0.187	0.067	0.030	0.204	0.204	0.171	0.273
1.030	0.712	0.173	0.065	0.029	0.205	0.201	0.171	0.270
1.040	0.687	0.160	0.063	0.029	0.204	0.199	0.171	0.267
1.050	0.661	0.147	0.060	0.029	0.203	0.197	0.171	0.257
1.060	0.629	0.134	0.058	0.028	0.201	0.196	0.169	0.246
1.070	0.597	0.124	0.057	0.028	0.200	0.197	0.166	0.234
1.080	0.565	0.117	0.055	0.027	0.198	0.198	0.164	0.228
1.100	0.498	0.101	0.052	0.026	0.194	0.198	0.161	0.234
1.150	0.331	0.077	0.047	0.024	0.189	0.191	0.141	0.238
1.200	0.206	0.064	0.043	0.023	0.182	0.195	0.133	0.241
1.300	0.099	0.050	0.036	0.021	0.181	0.177	0.141	0.205

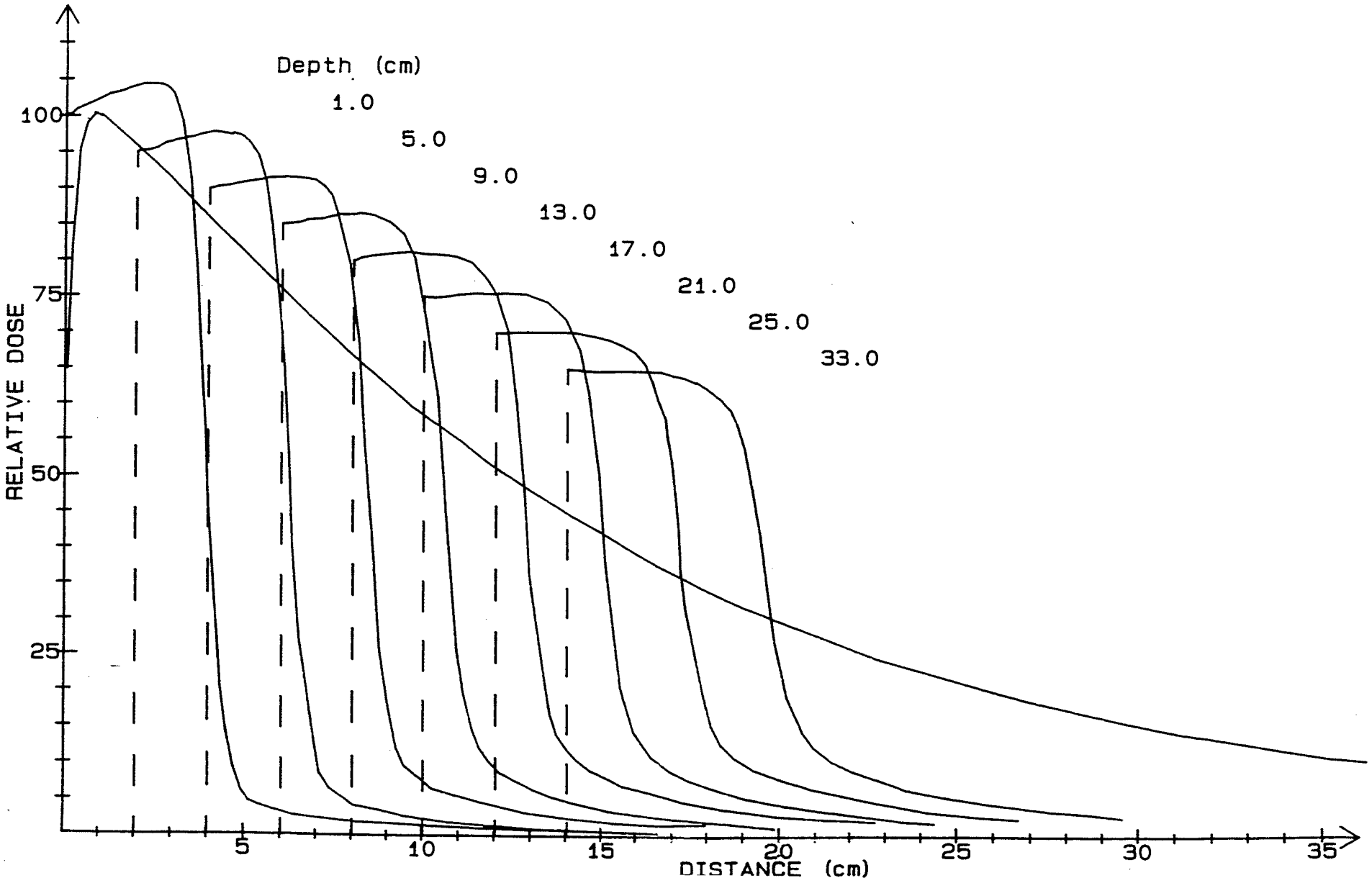
x = Off-axis distance
h = Field half-width
x = 5.0 * x/h (100.0 + depth) / 100.0


4 MV 4 X 4 cm Open Field
plot 1
Depth (cm)
1.0
5.0
9.0
13.0
17.0
21.0
25.0
33.0
RELATIVE DOSE
100
75
50
25
5
10
15
20
25
30
35
DISTANCE (cm)

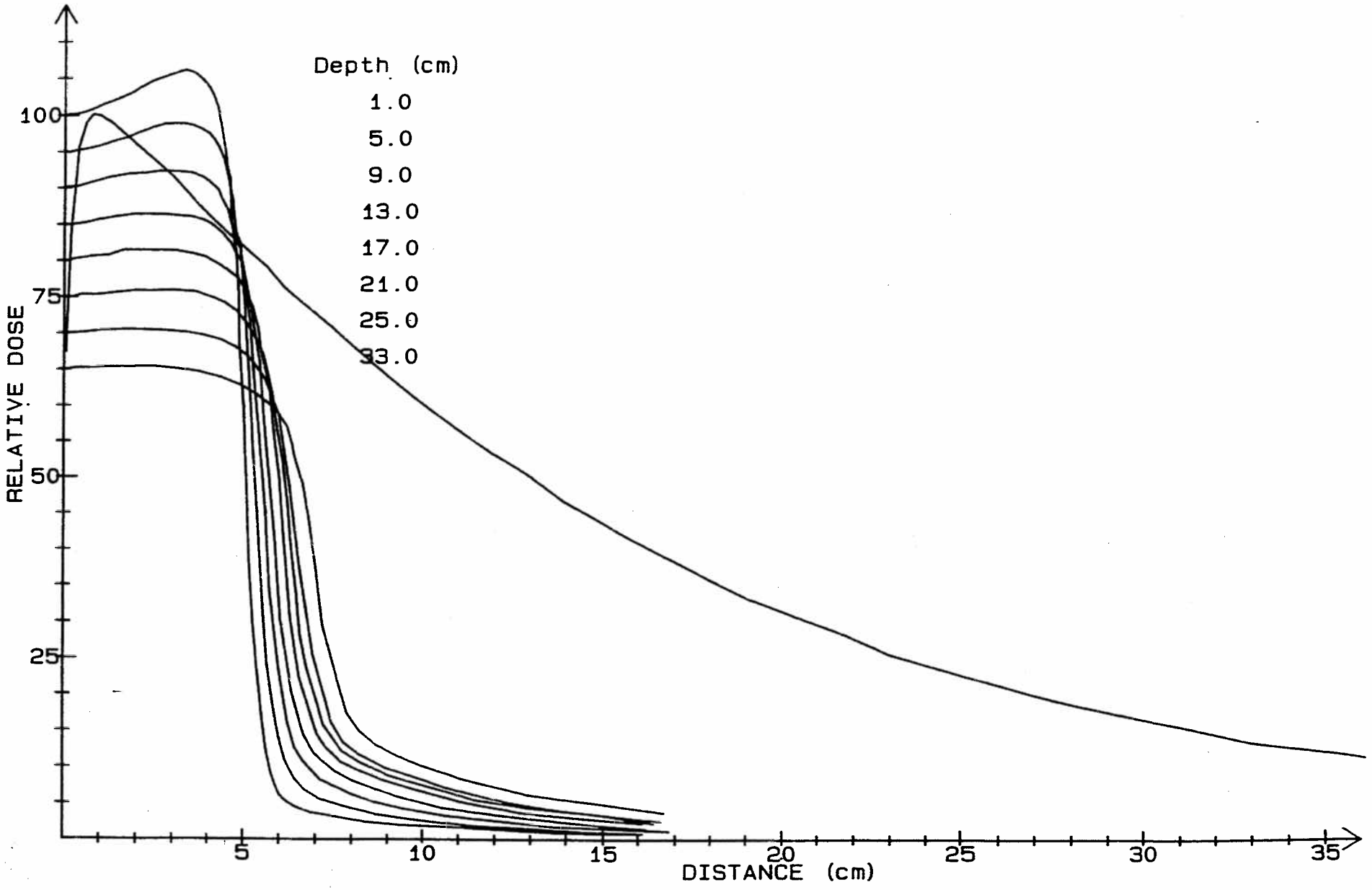
4 MV 6 X 6 cm Open Field plot 2



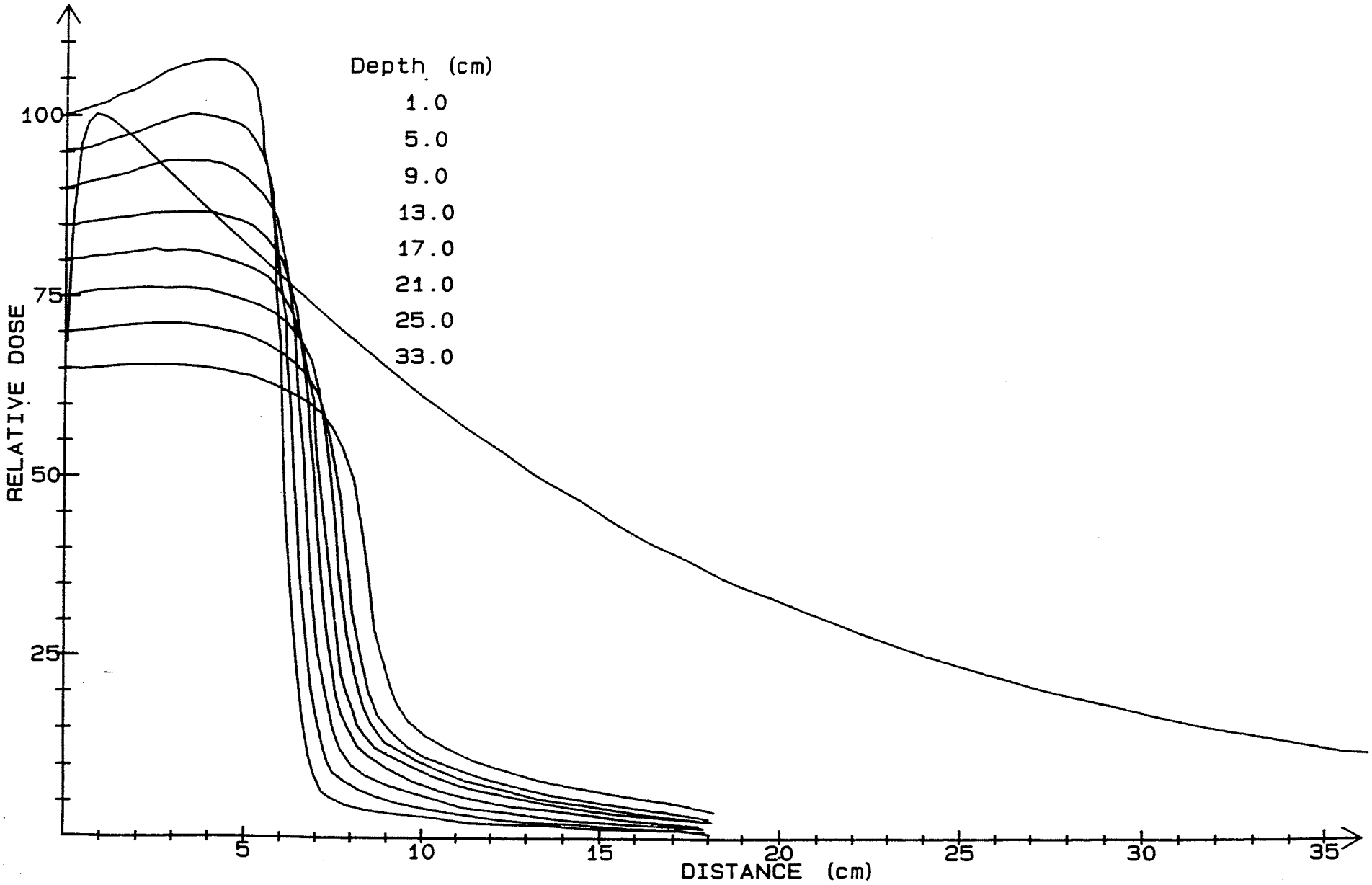
4 MV 8 X 8 cm Open Field plot 3



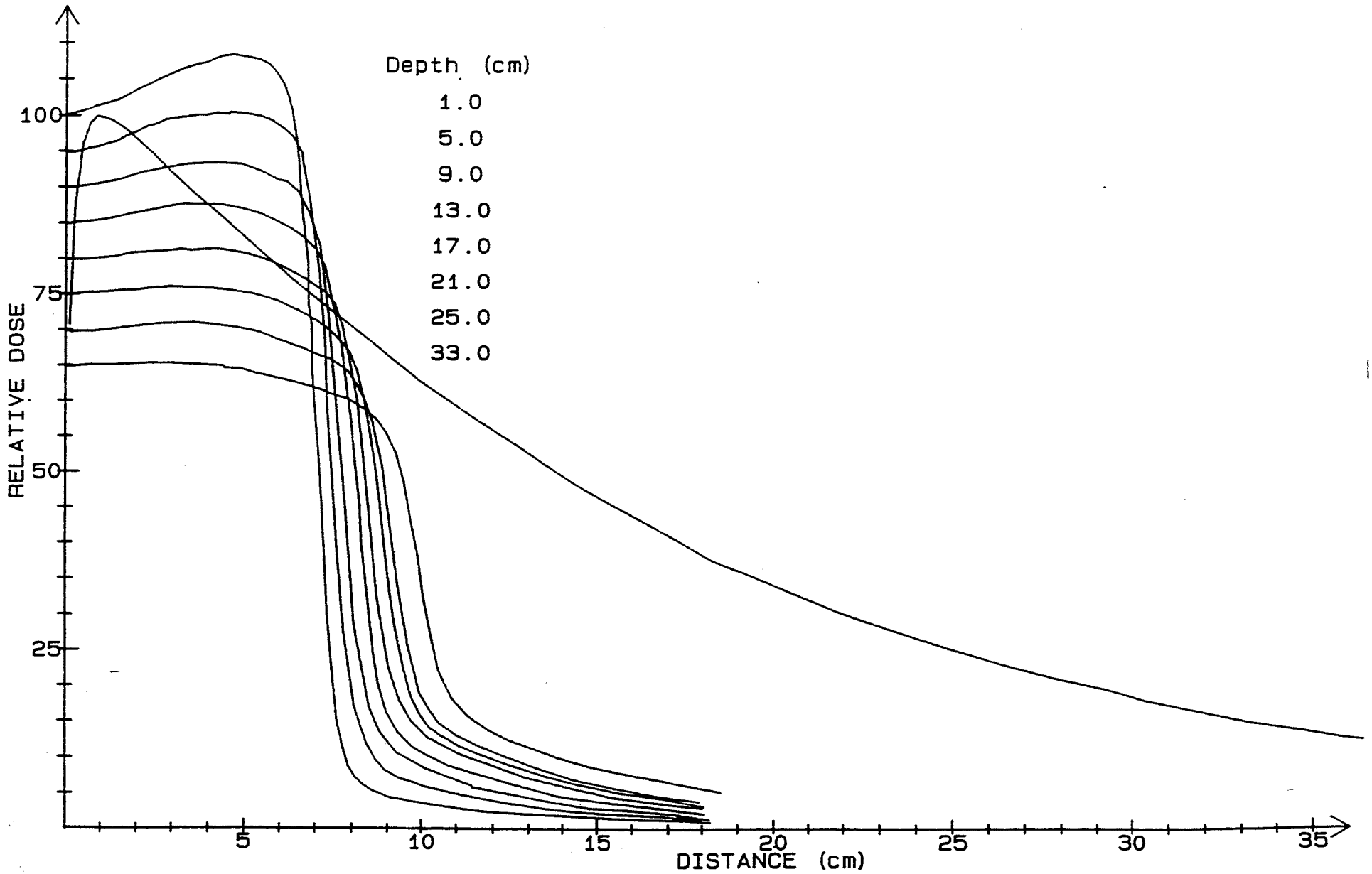
4 MV 10 X 10 cm Open Field plot 4



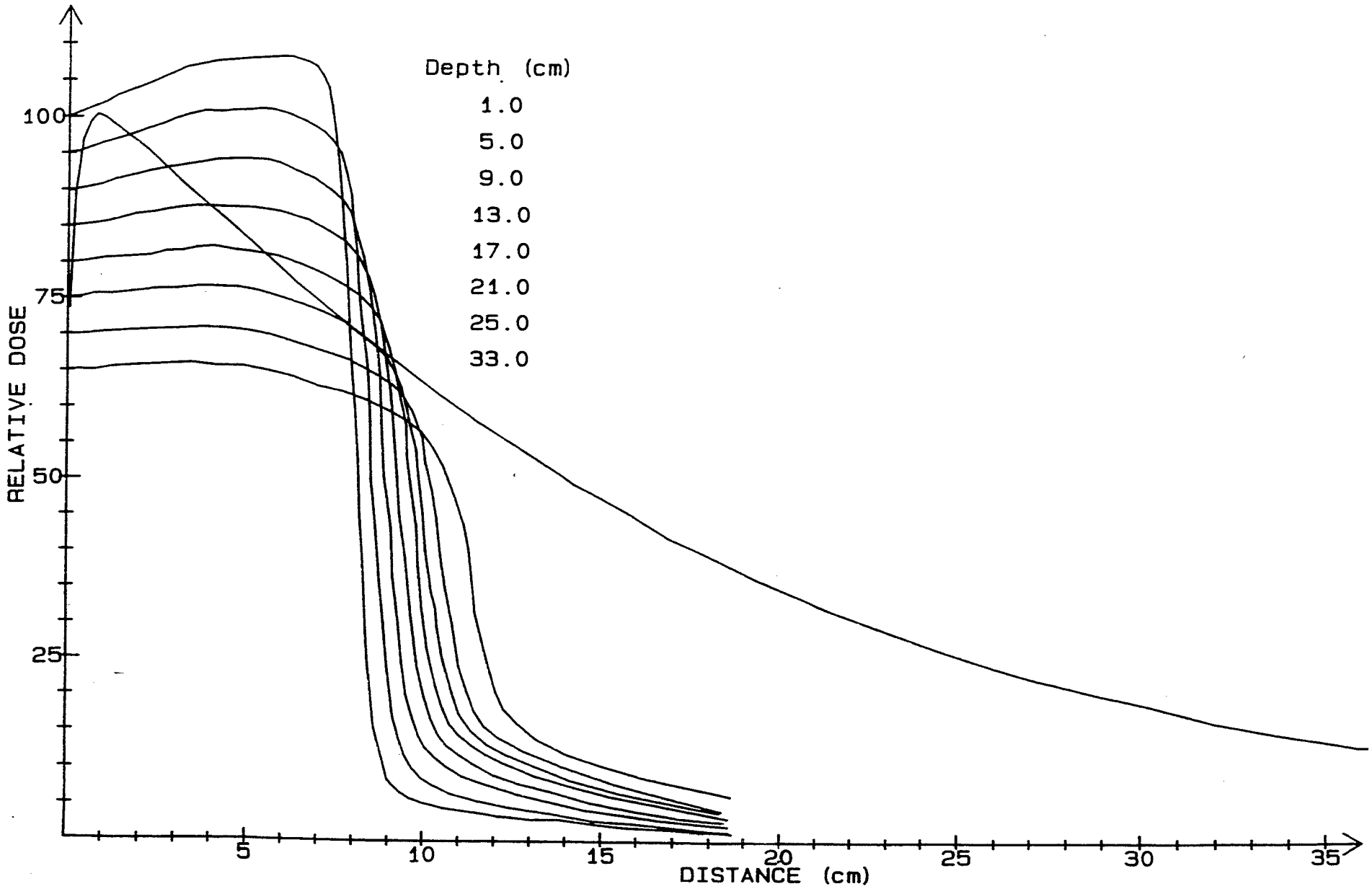
4 MV 12 X 12 cm Open Field plot 5



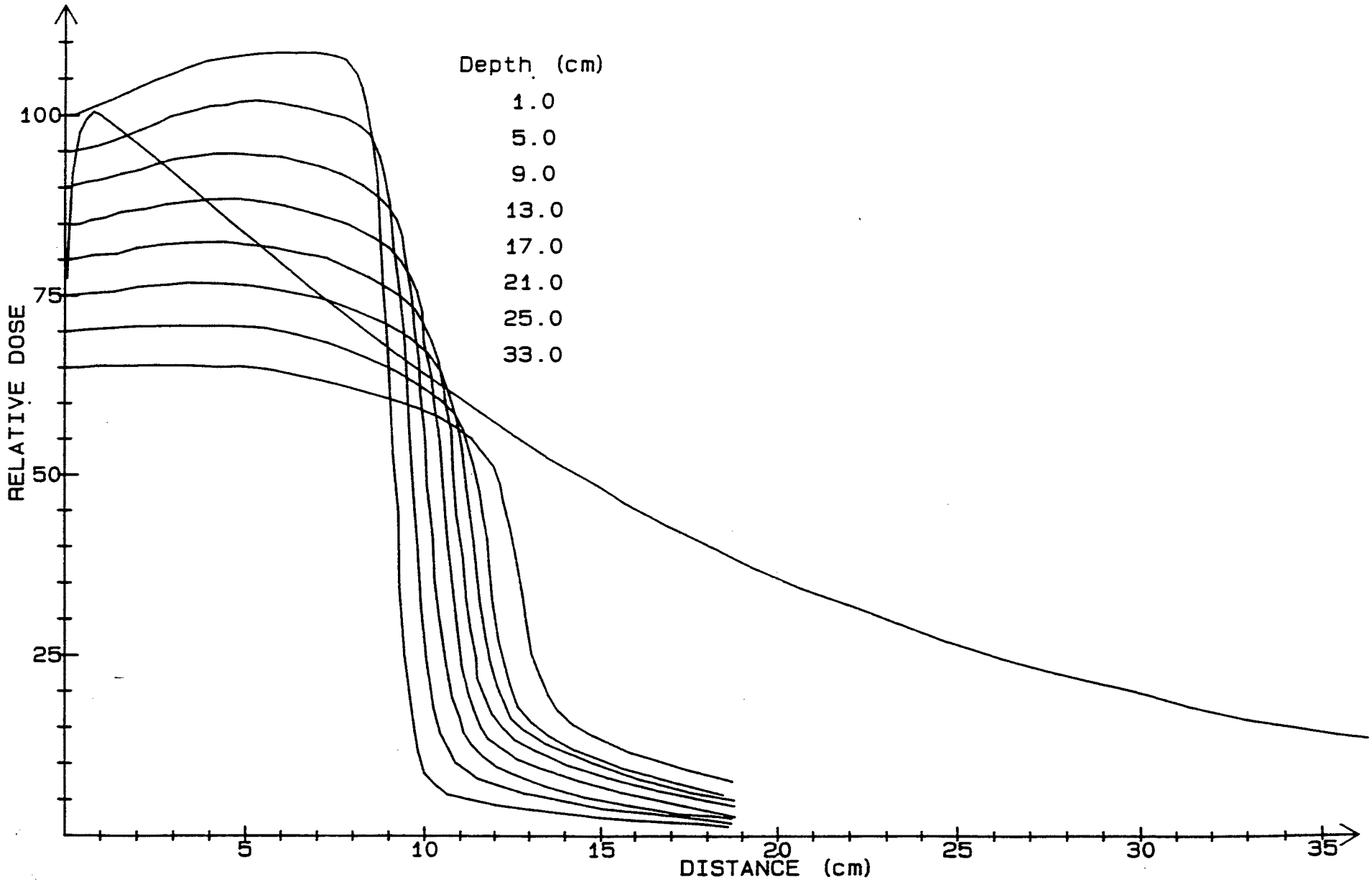
4 MV 14 X 14 cm Open Field plot 6



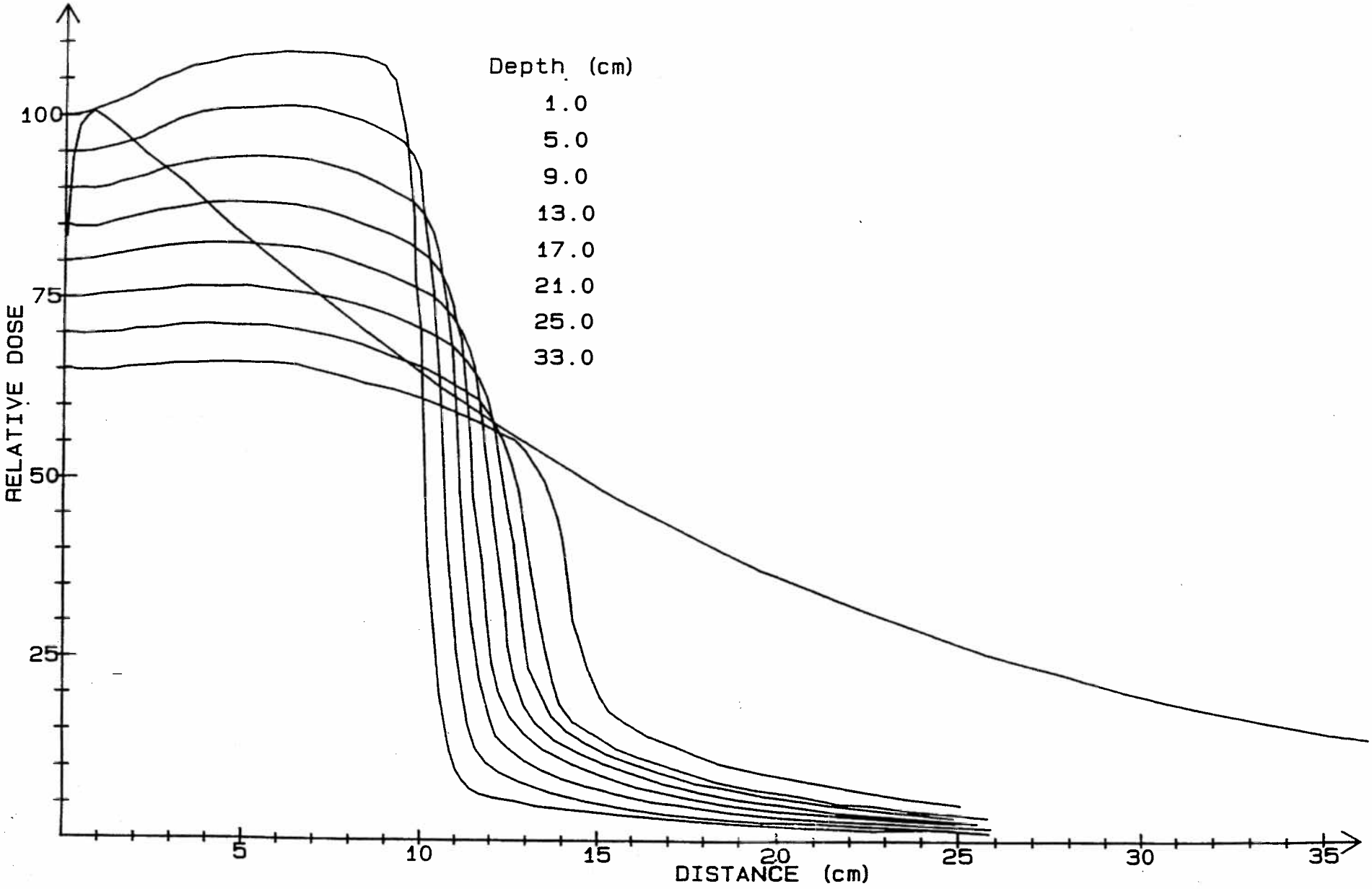
4 MV 16 X 16 cm Open Field plot 7

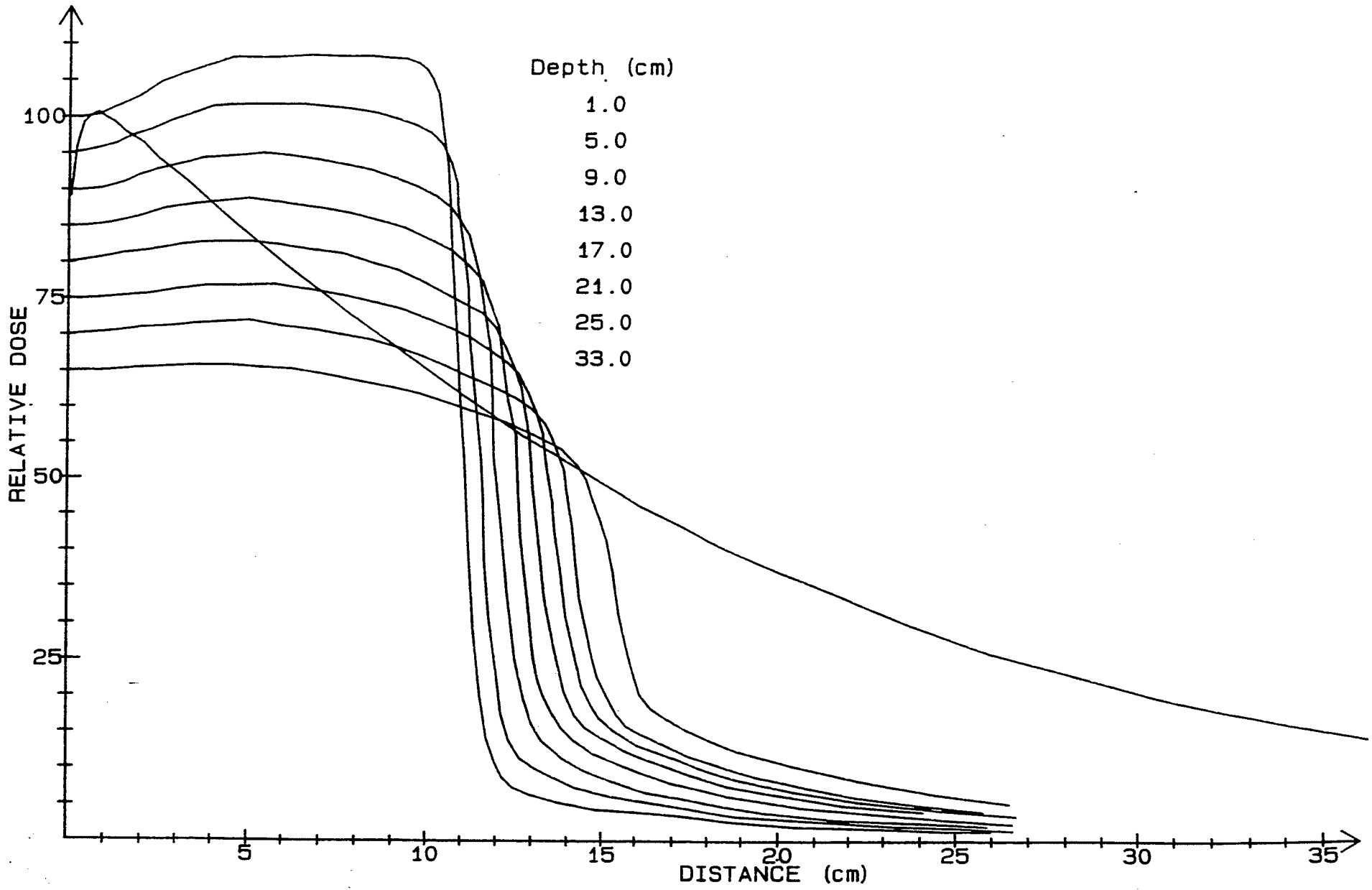


4 MV 18 X 18 cm Open Field plot 8

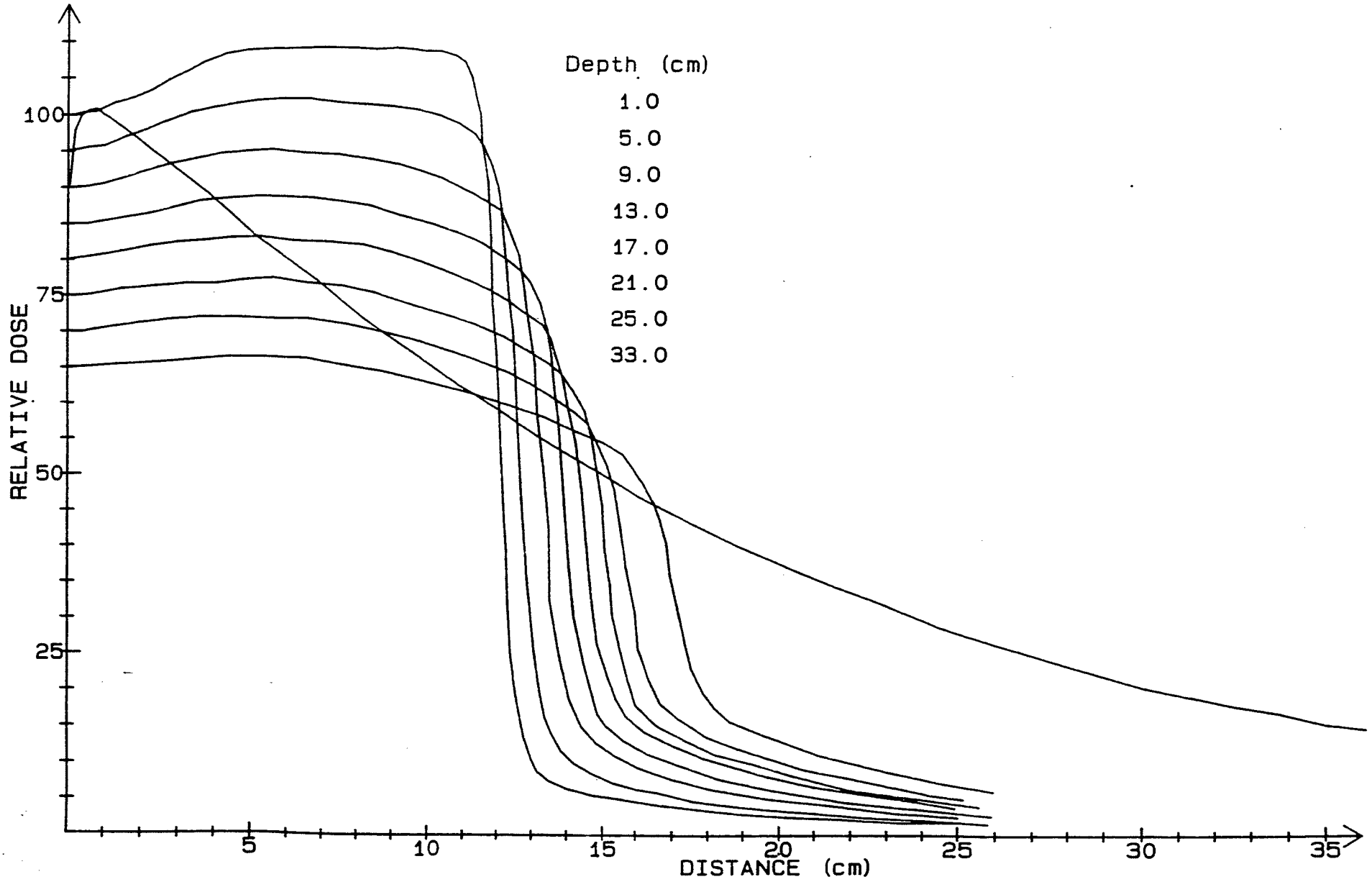


4 MV 20 X 20 cm Open Field plot 9

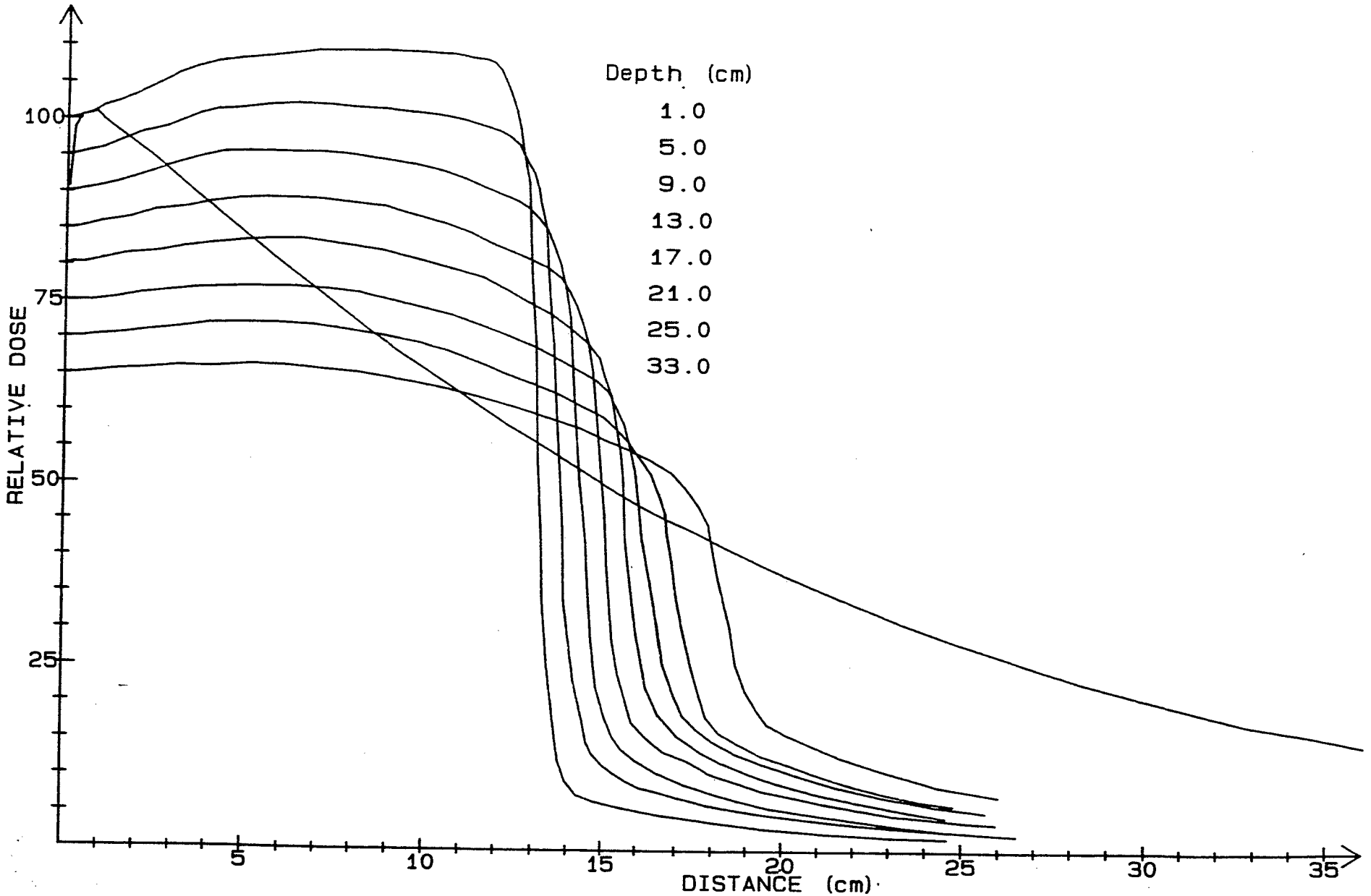



4 MV 22 X 22 cm Open Field
plot 10
Depth (cm)
1.0
5.0
9.0
13.0
17.0
21.0
25.0
33.0
RELATIVE DOSE
100
75
50
25
5
10
15
20
25
30
35
DISTANCE (cm)

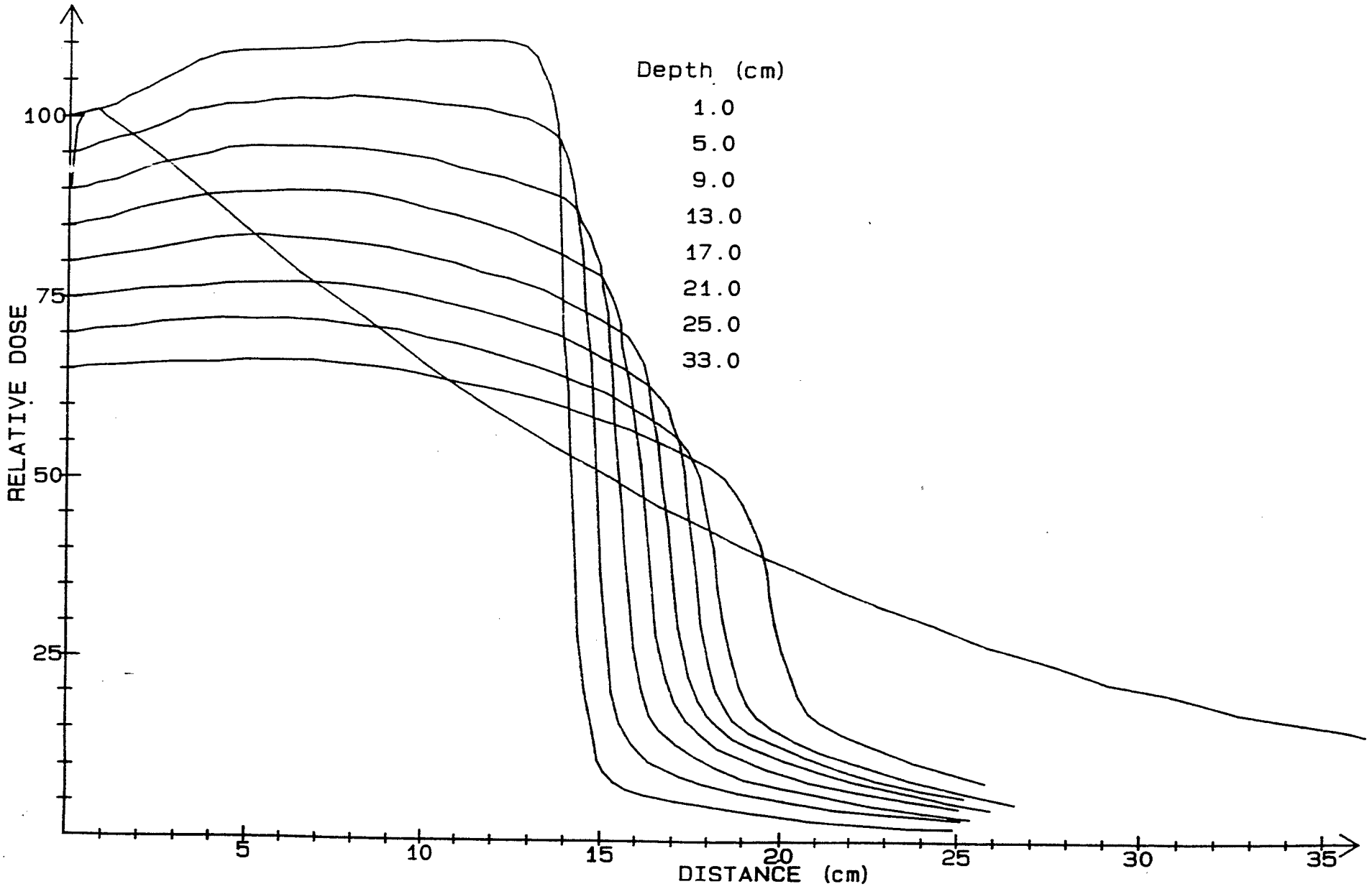
4 MV 24 X 24 cm Open Field plot 11



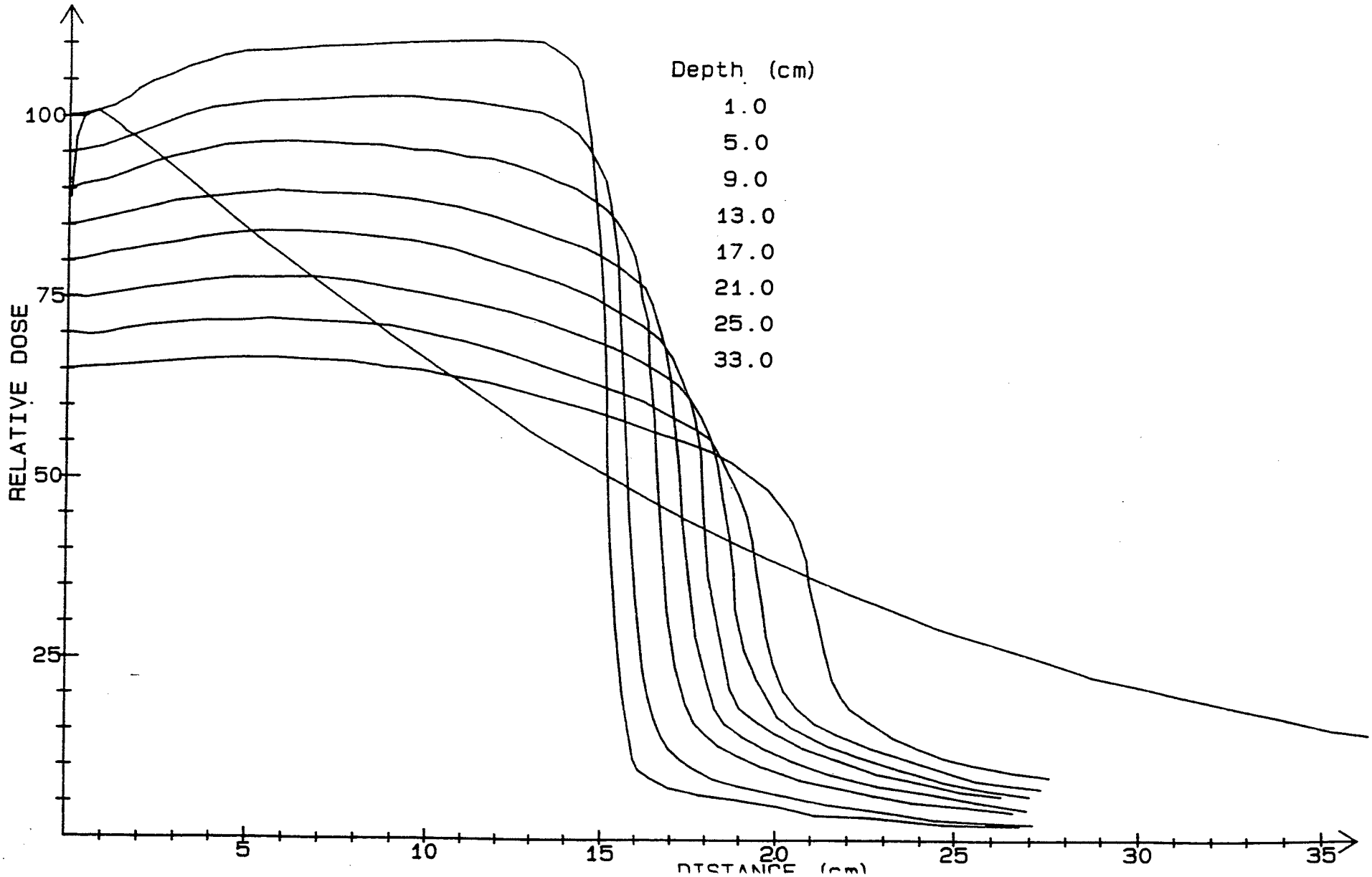
4 MV 26 X 26 cm Open Field plot 12



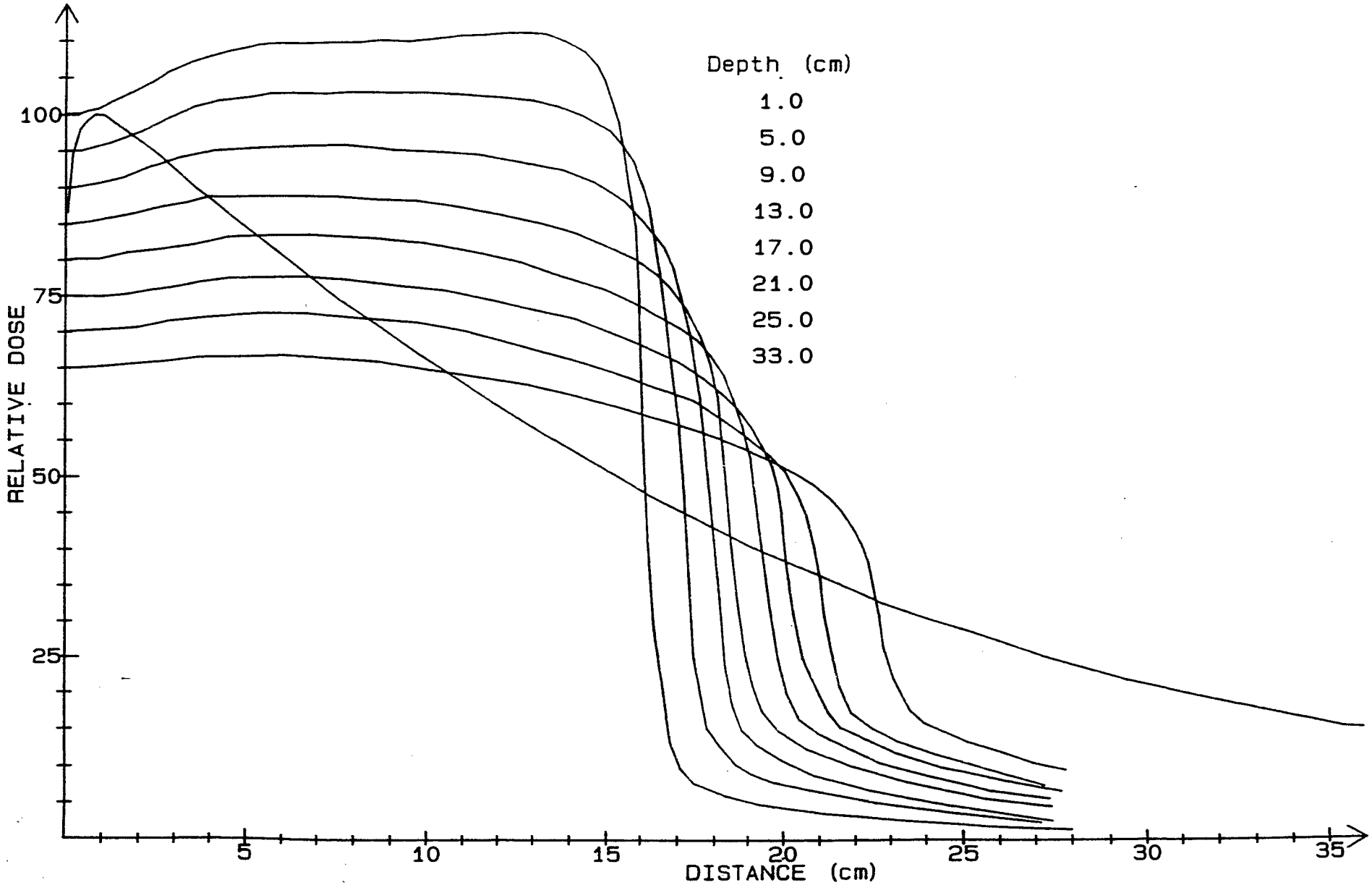
4 MV 28 X 28 cm Open Field plot 13



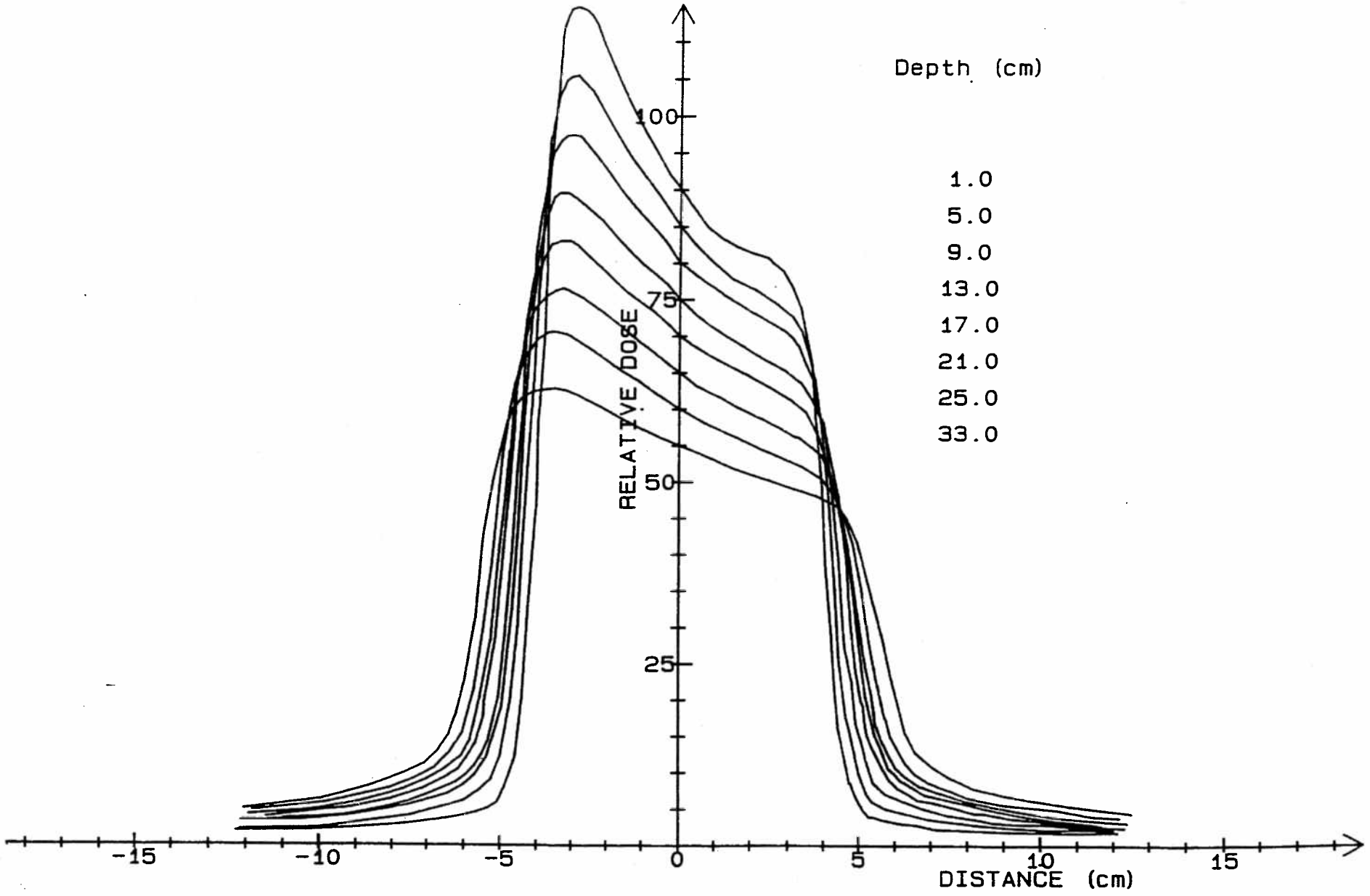
4 MV 30 X 30 cm Open Field plot 14



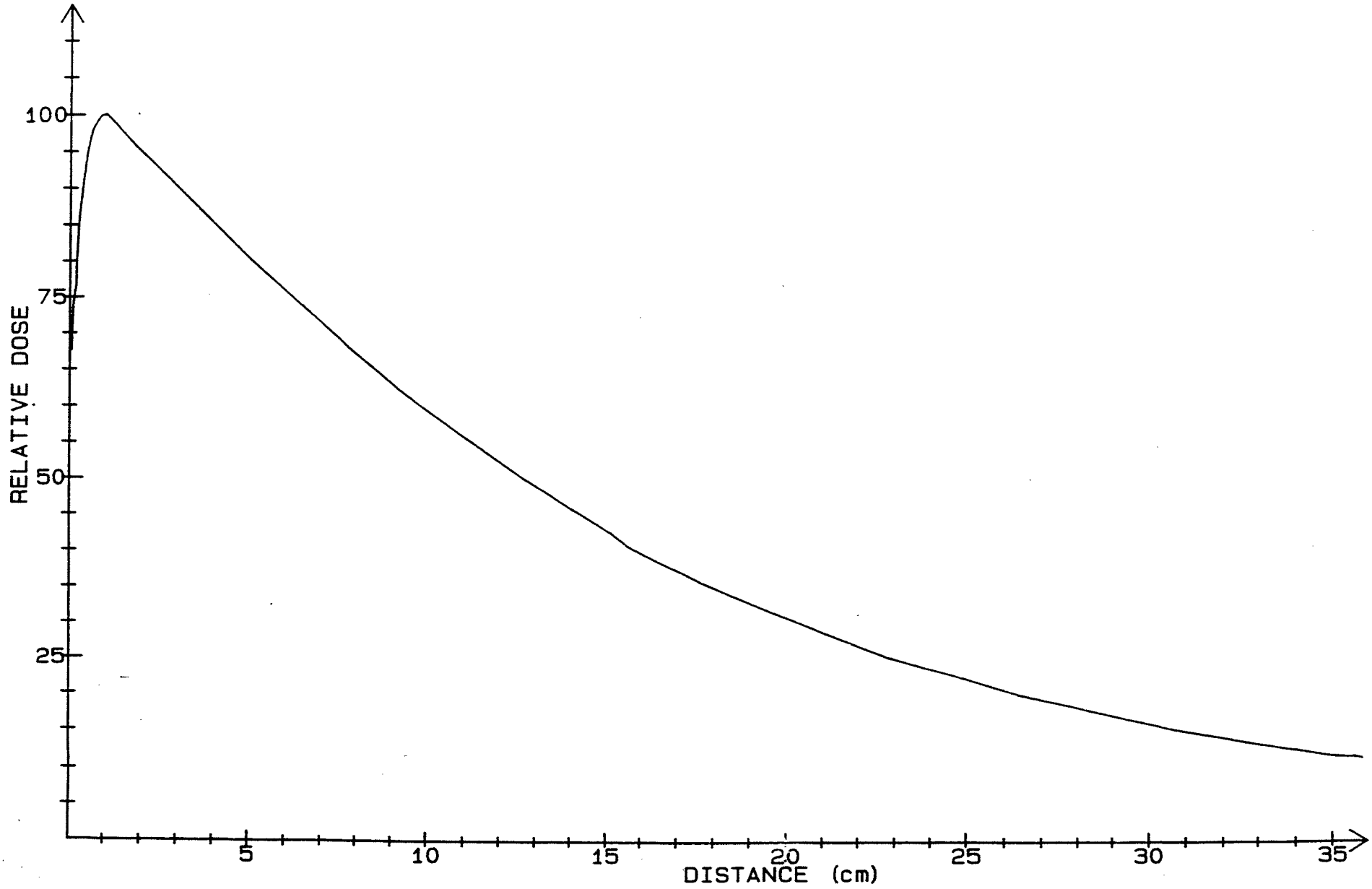
4 MV 32 X 32 cm Open Field plot 15

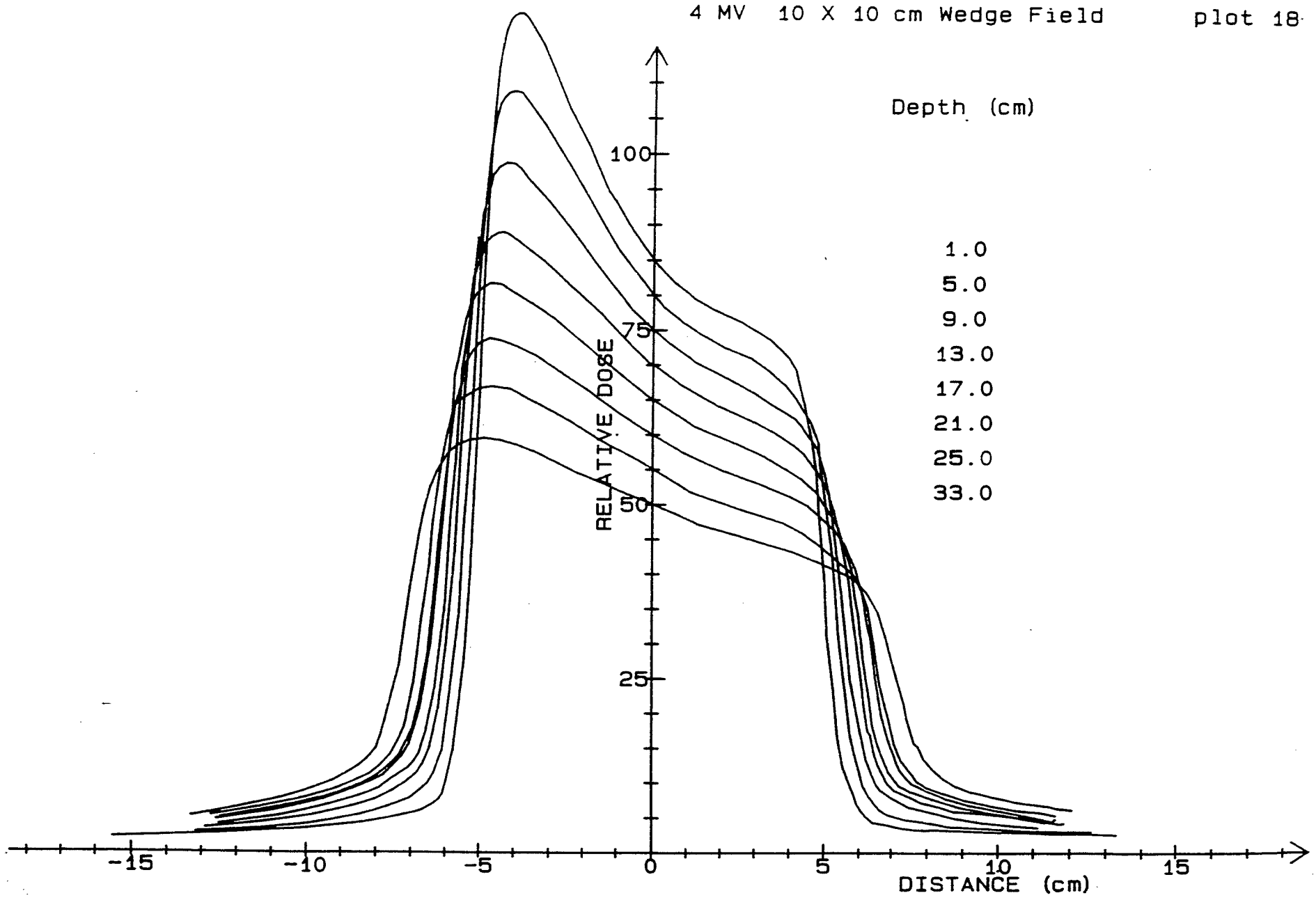


4 MV 8 X 8 cm Wedge Field plot 16

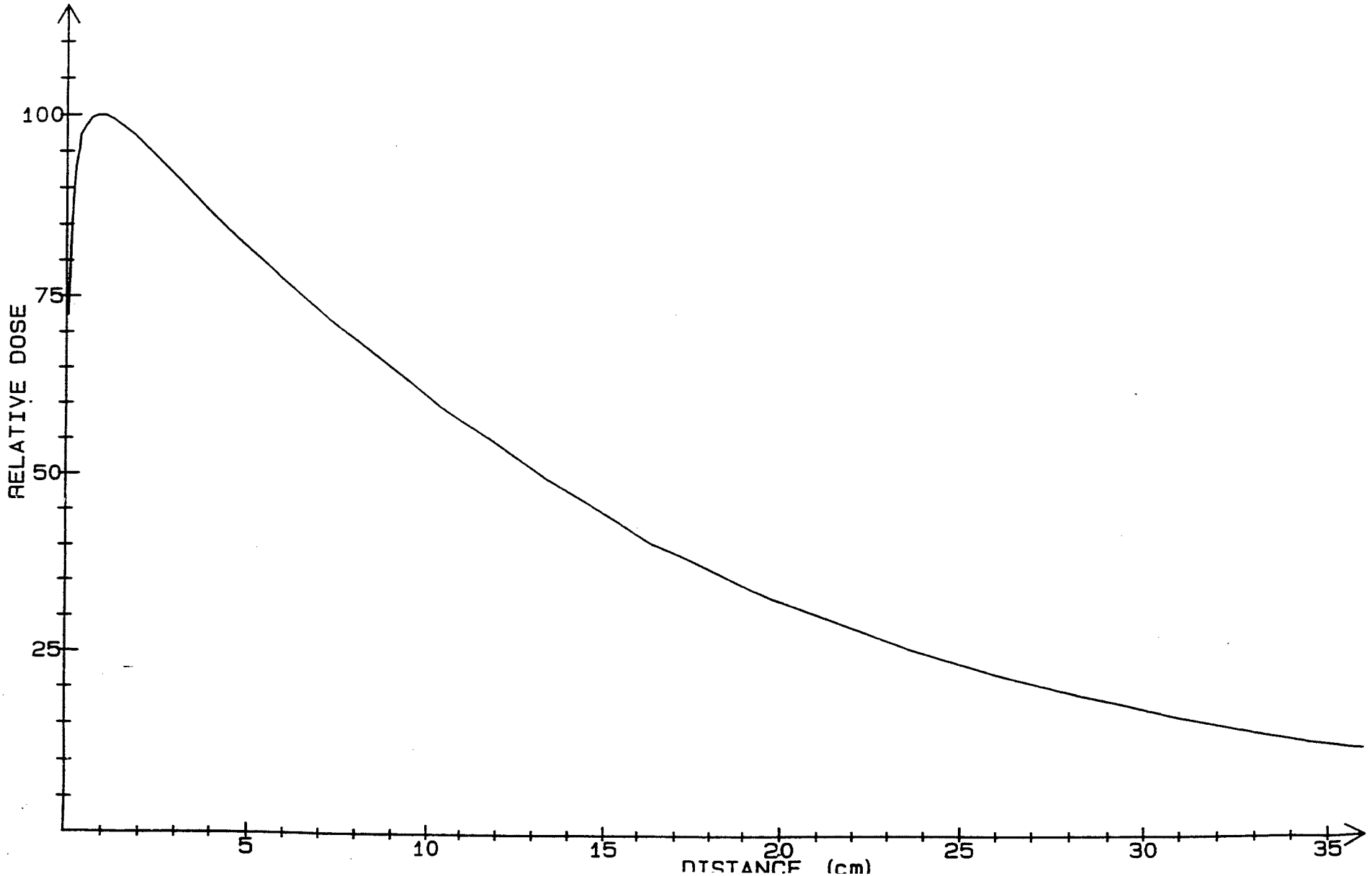


4 MV 8 X 8 cm Wedge Field plot 17

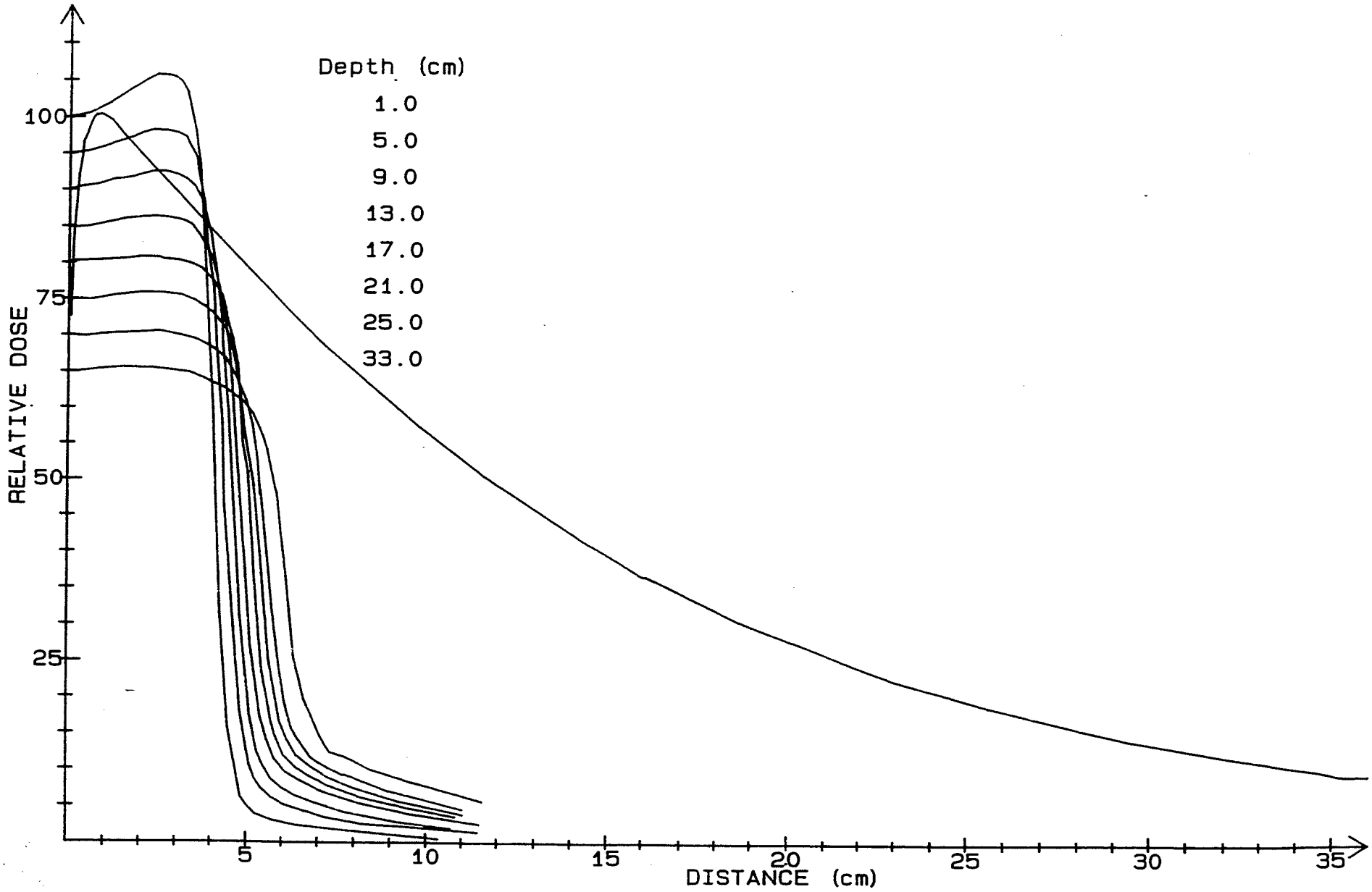



4 MV 10 X 10 cm Wedge Field
plot 18
Depth (cm)
1.0
5.0
9.0
13.0
17.0
21.0
25.0
33.0
RELATIVE DOSE
100
75
50
25
-15
-10
-5
0
5
10
15
DISTANCE (cm)

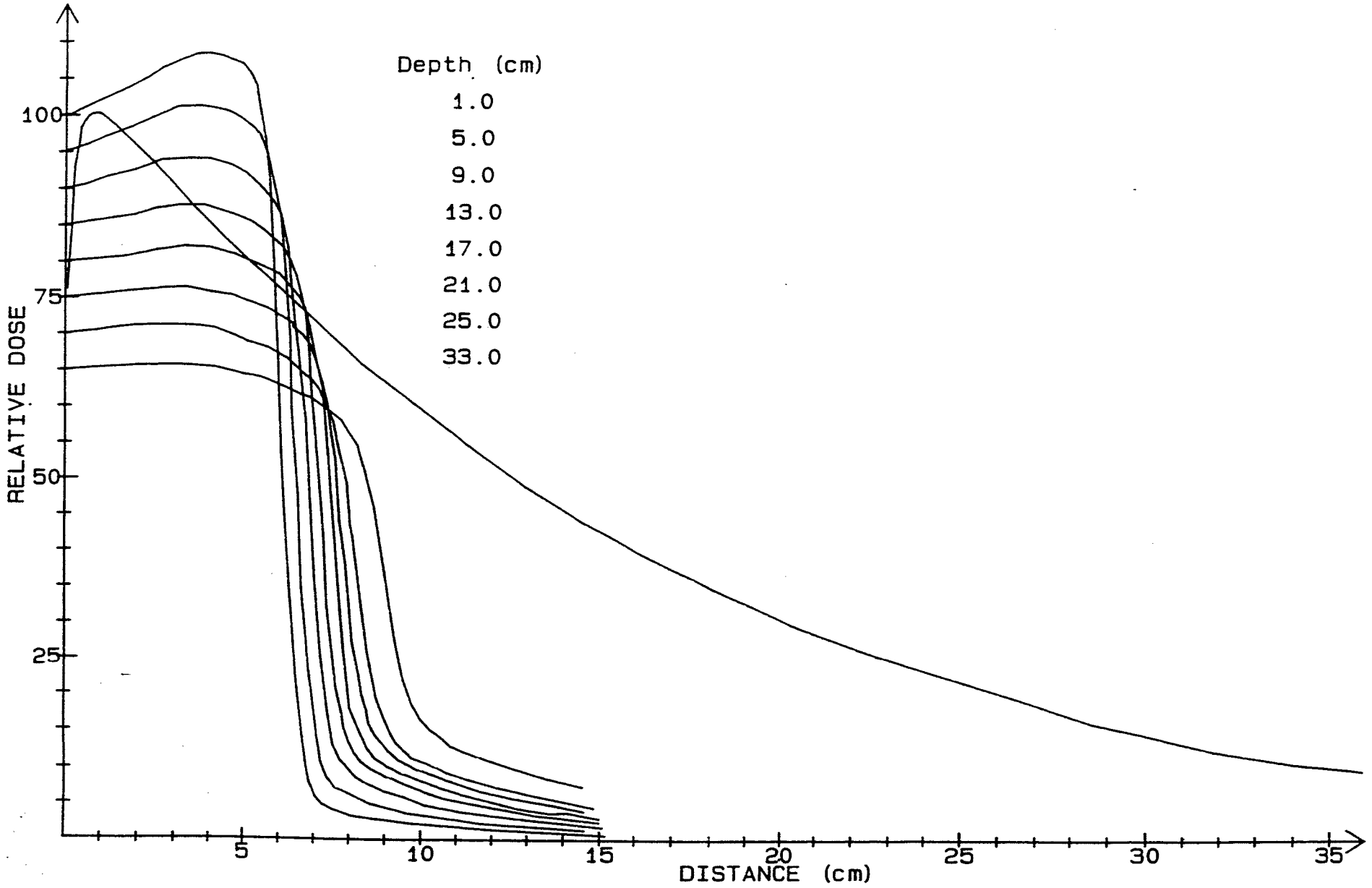
4 MV 10 X 10 cm Wedge Field plot 19



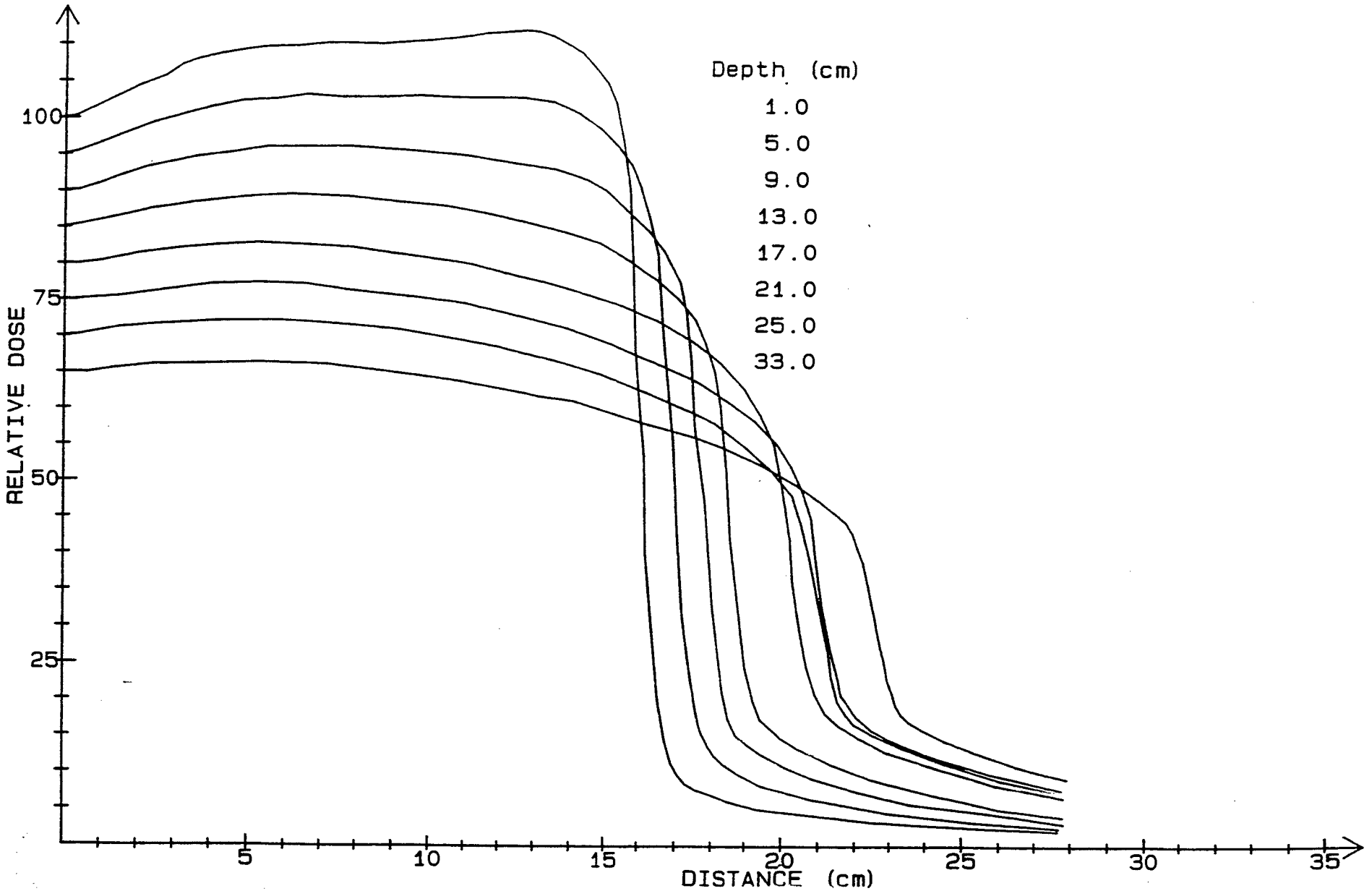
4 MV 8 X 8 cm Field 65 cm SSD plot 20

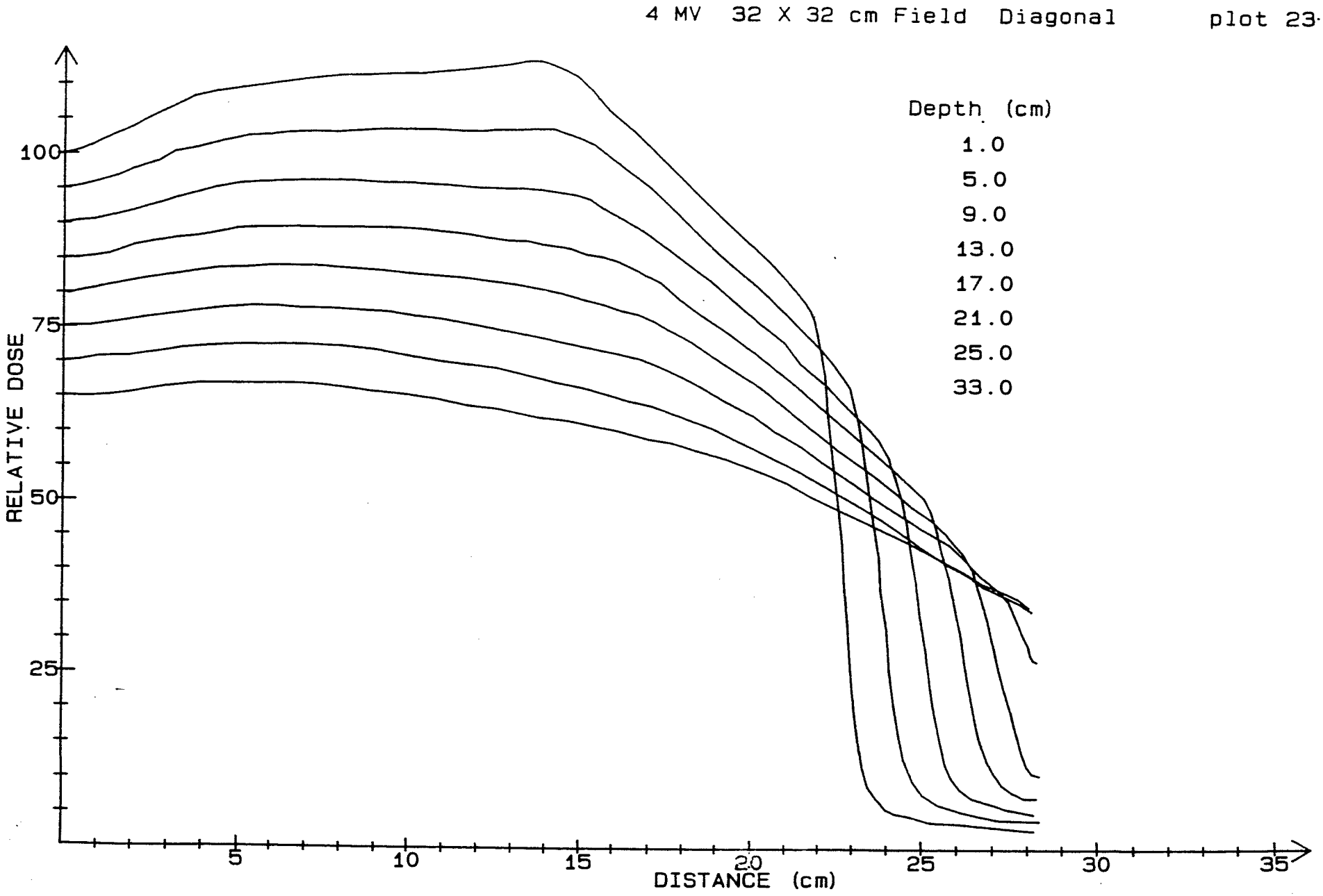


4 MV 12 X 12 cm Field 65 cm SSD plot 21

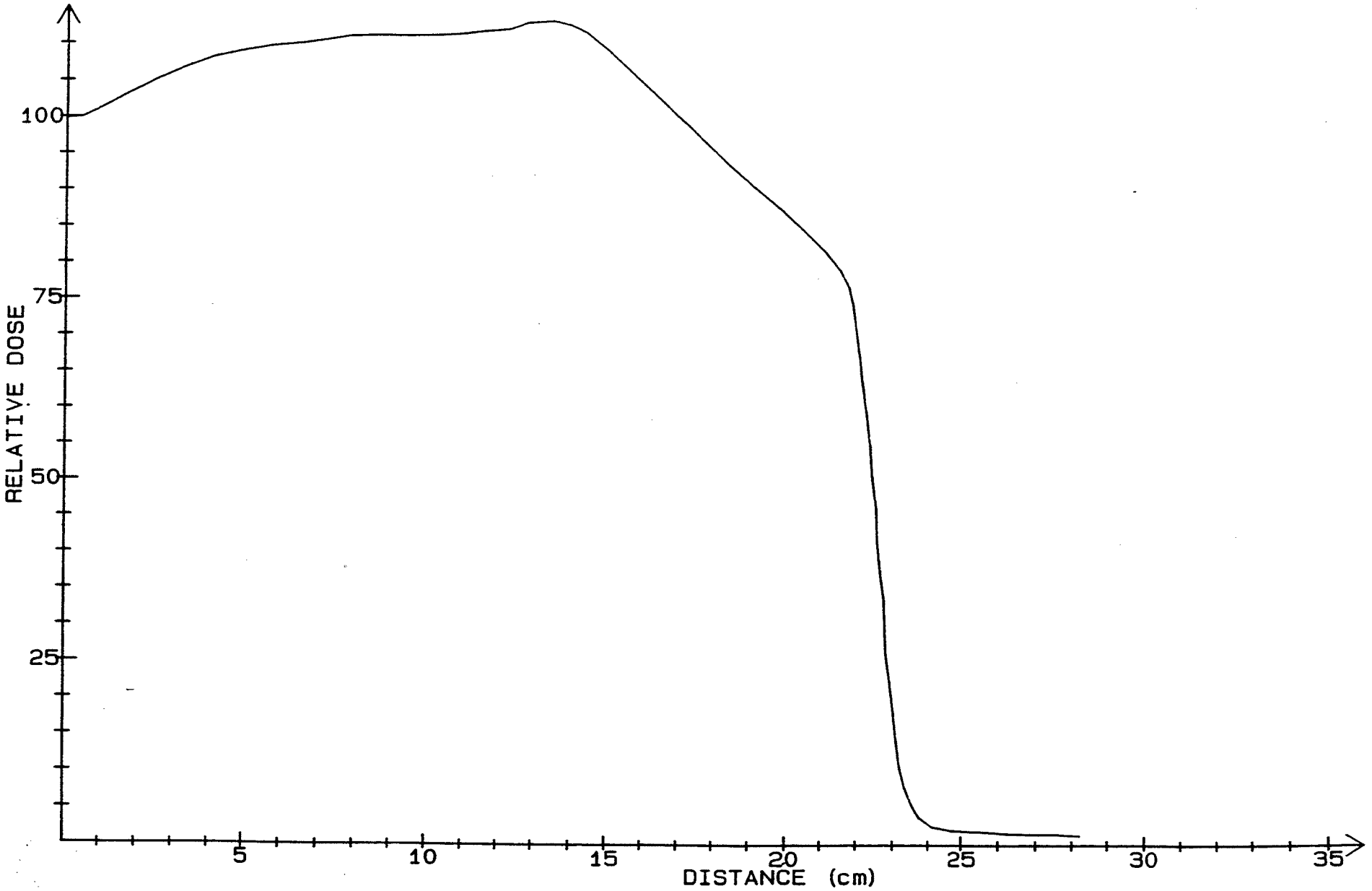


4 MV 32 X 32 cm Field Lower Jaws plot 22

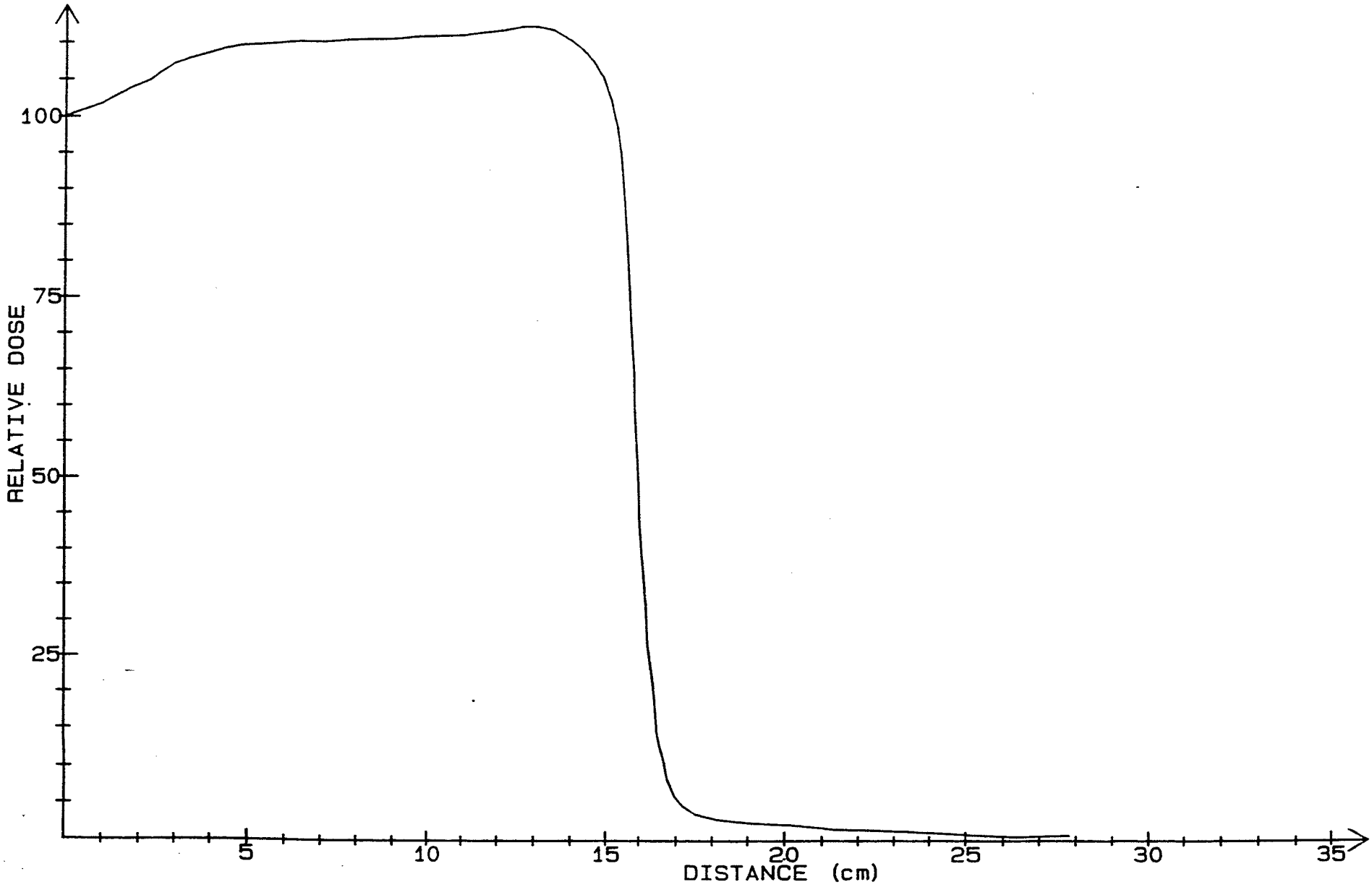



4 MV 32 X 32 cm Field Diagonal
plot 23
Depth (cm)
1.0
5.0
9.0
13.0
17.0
21.0
25.0
33.0
RELATIVE DOSE
100
75
50
25
5
10
15
20
25
30
35
DISTANCE (cm)

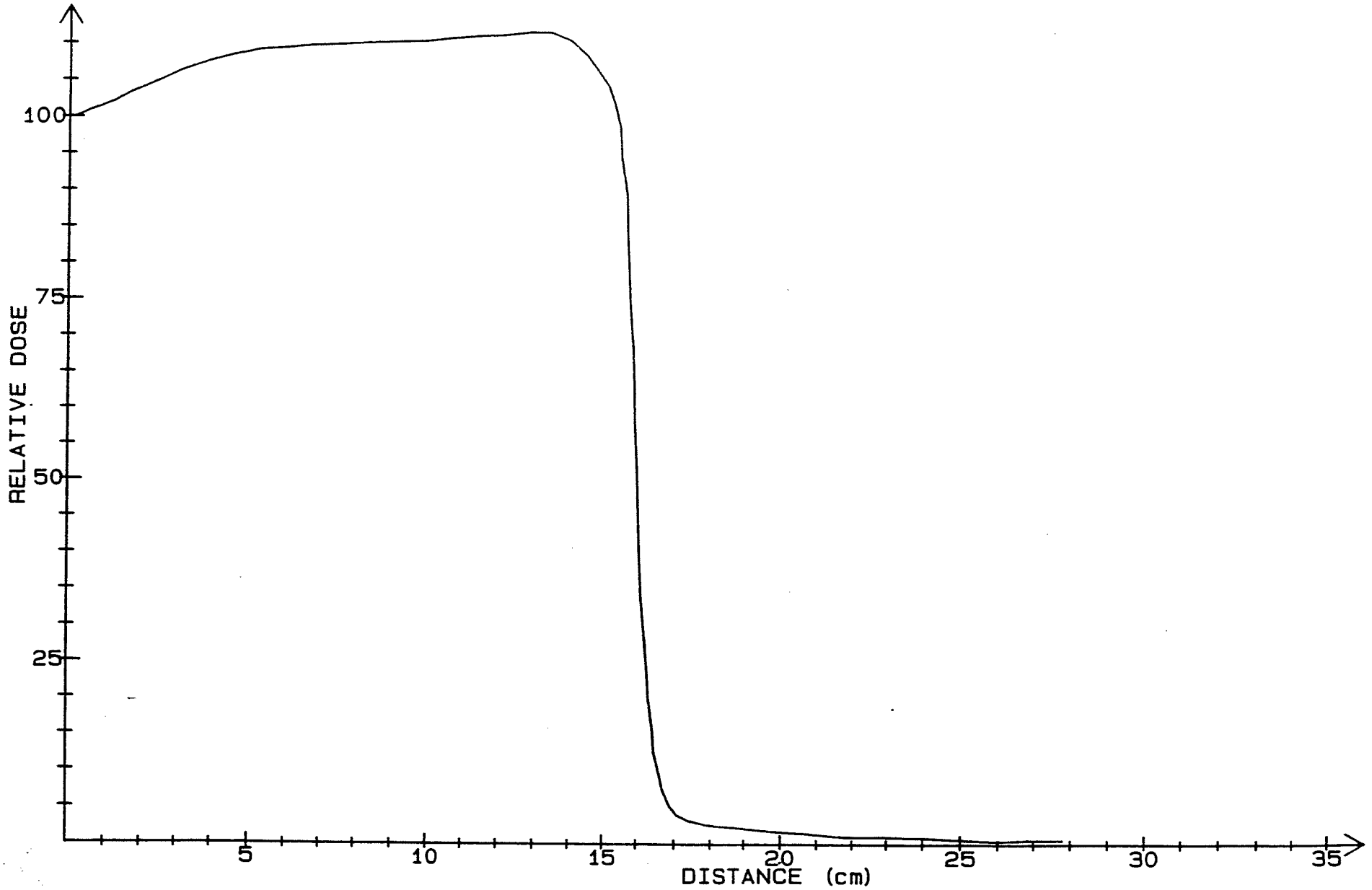
4 MV 32 X 32 cm Field Diagonal In Air plot 24



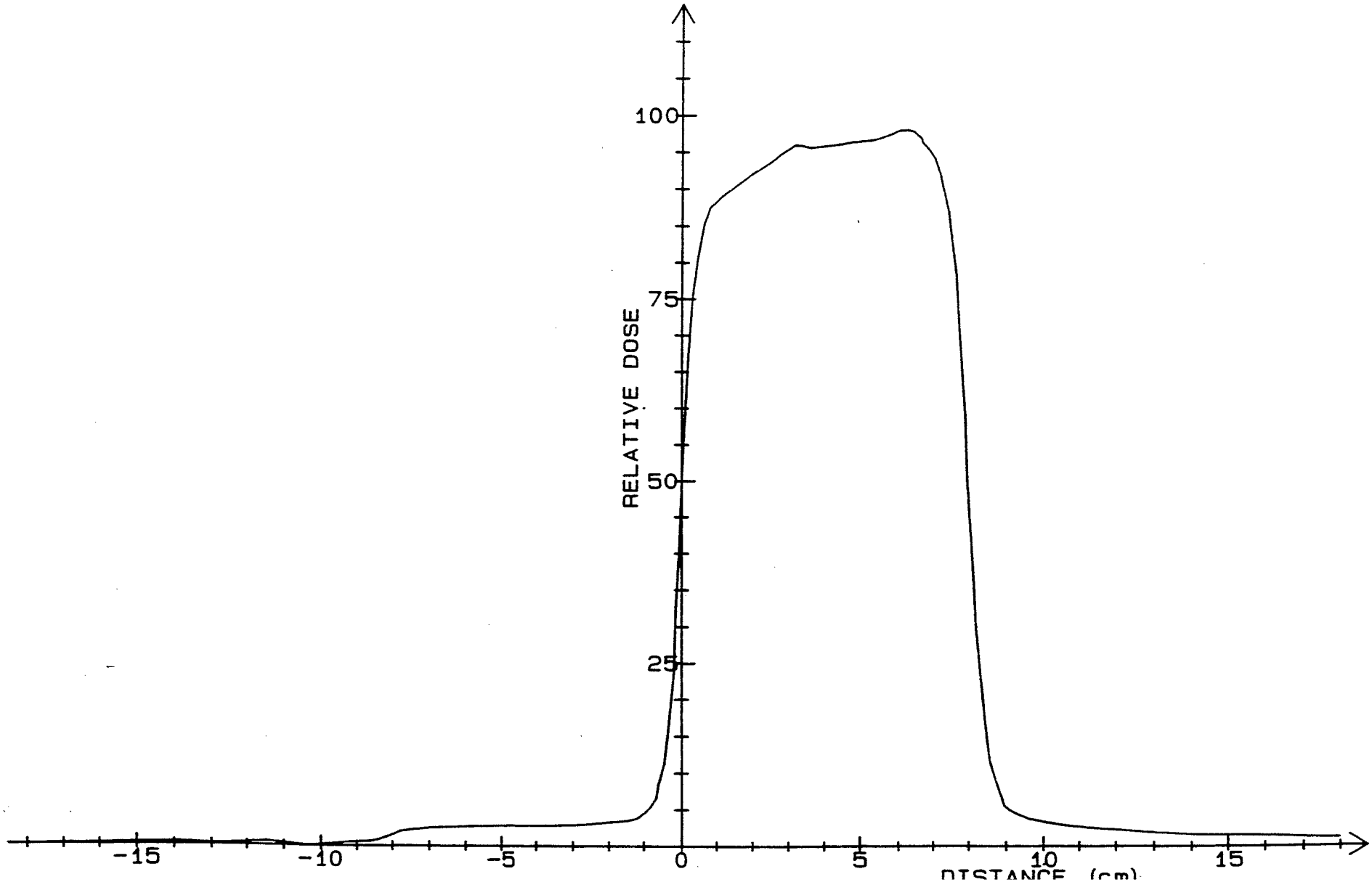
4 MV 32 X 32 cm Field In Air plot 25

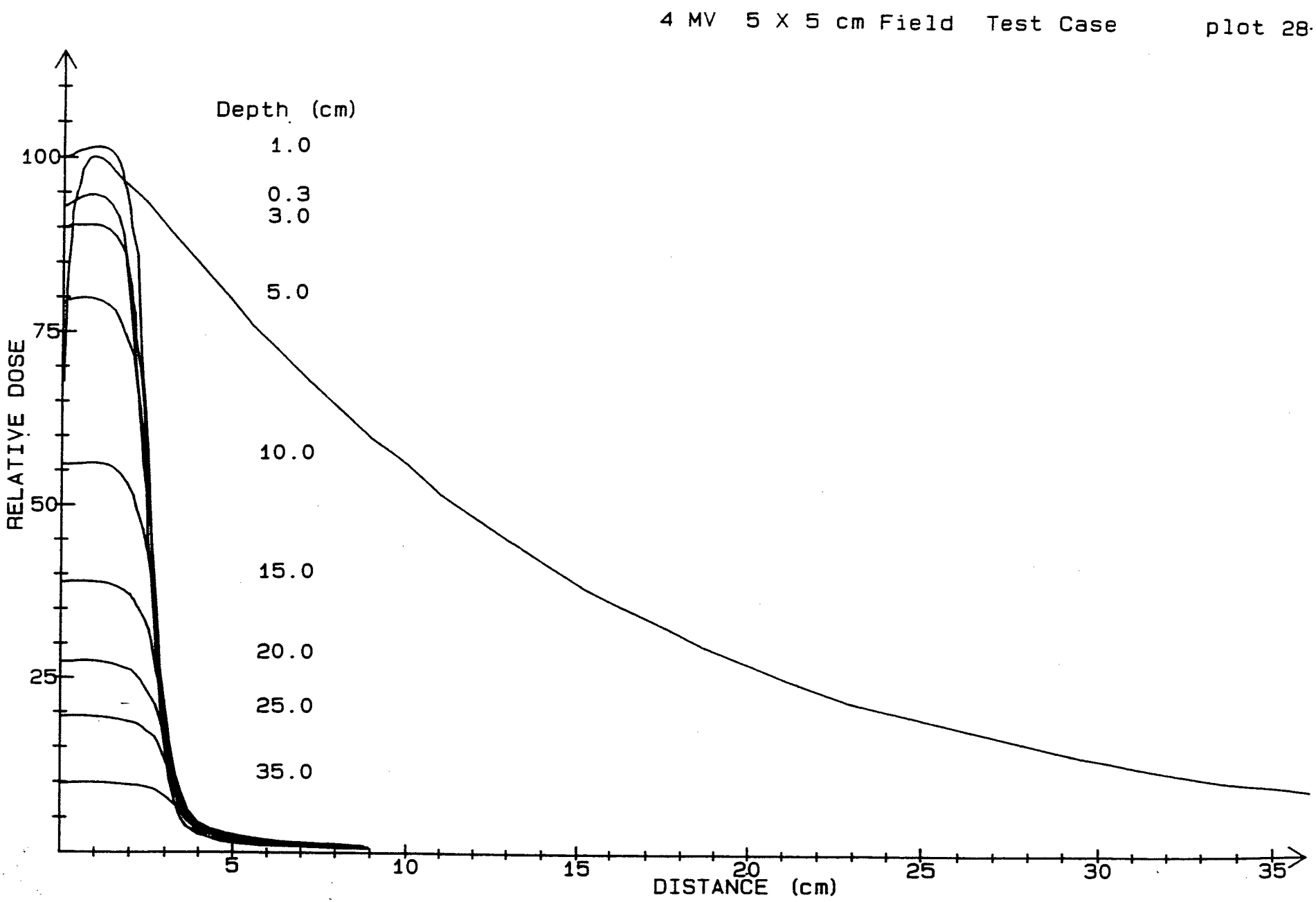


4 MV 32 X 32 cm Field Lower Jaws In Air plot 26

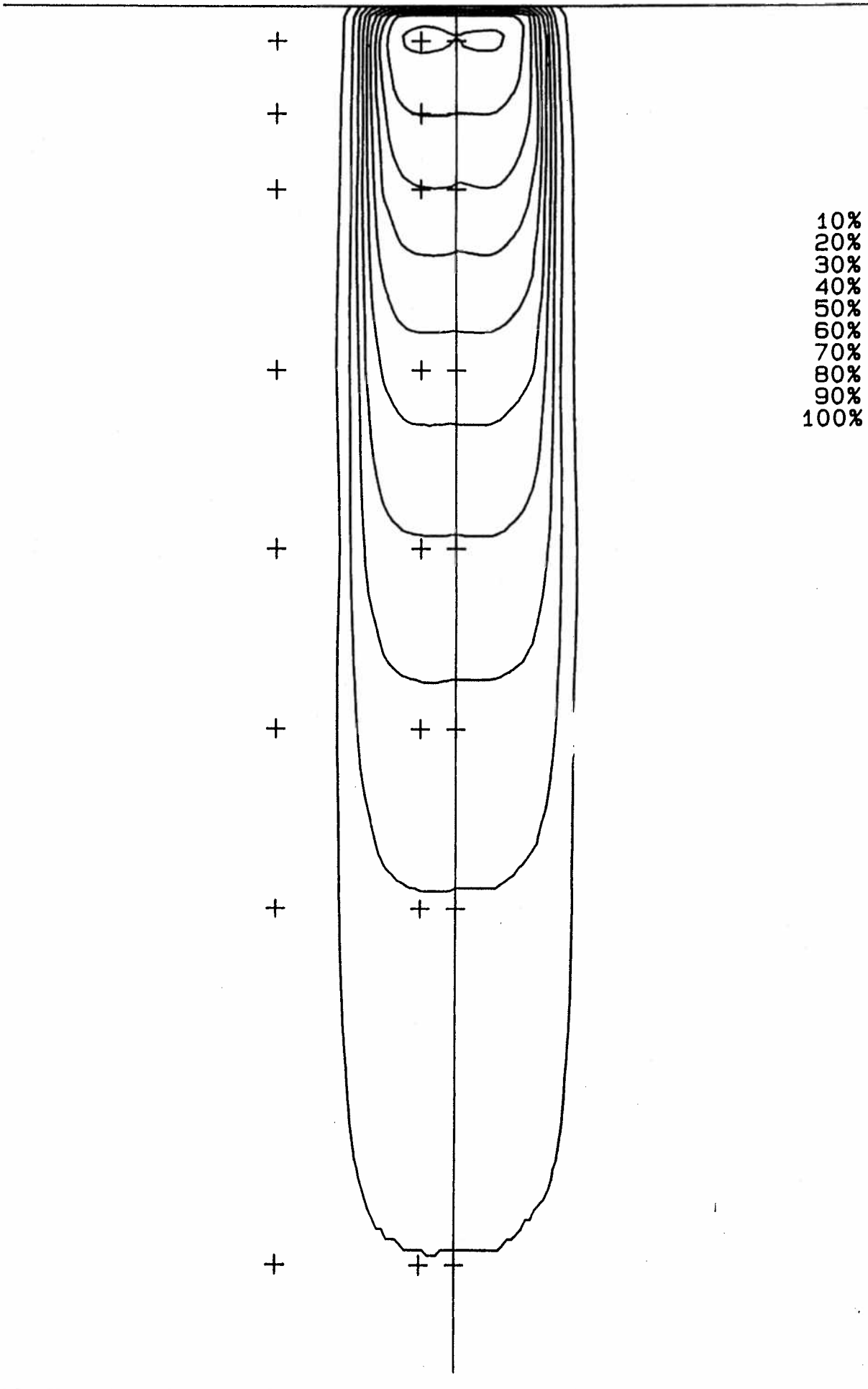


4 MV 16 X 16 cm Field Half-Beam Block In Air plot 27

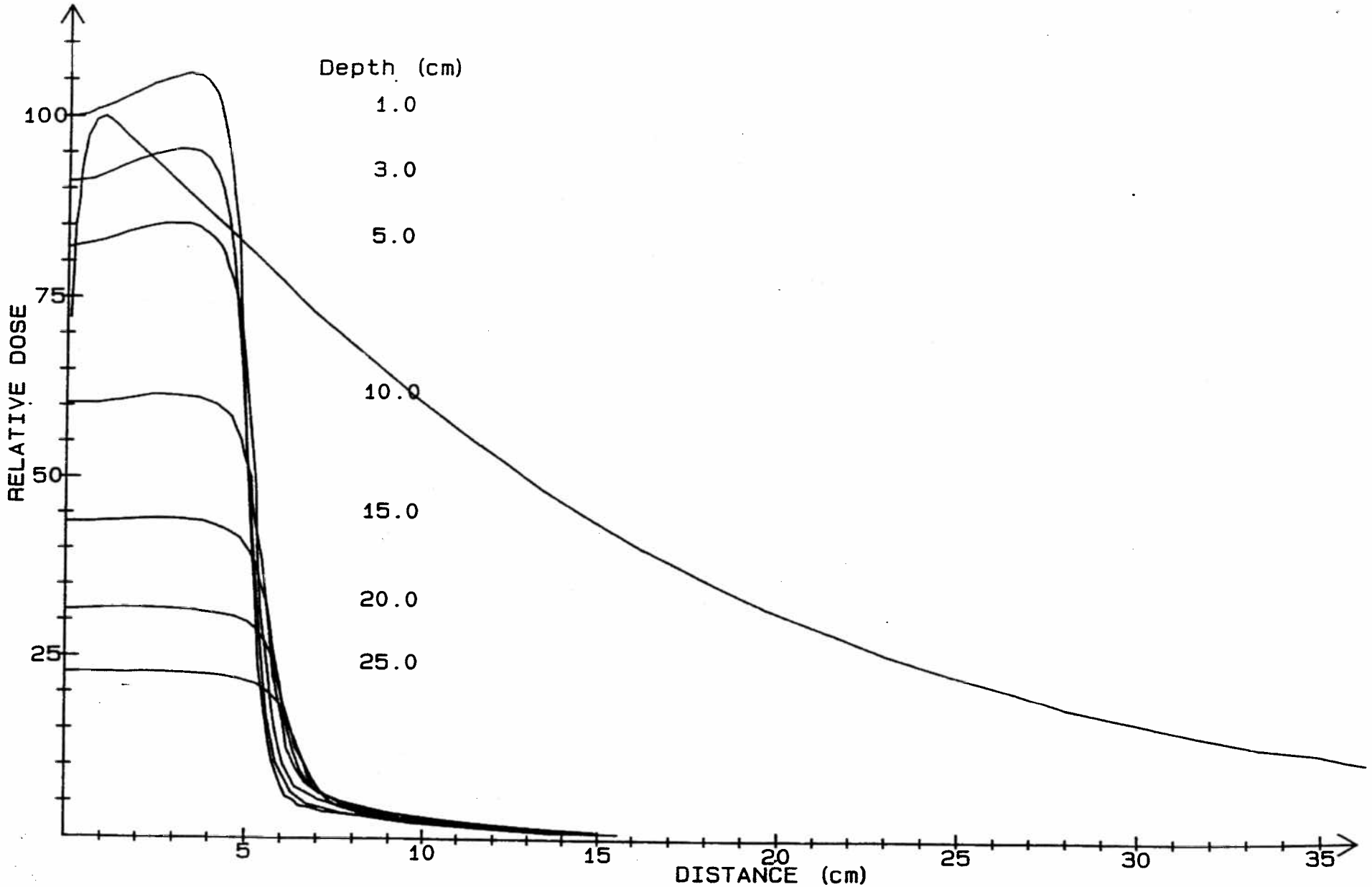



4 MV 5 X 5 cm Field Test Case
plot 28
Depth (cm)
1.0
0.3
3.0
5.0
10.0
15.0
20.0
25.0
35.0
RELATIVE DOSE
100
75
50
25
5
10
15
20
25
30
35
DISTANCE (cm)

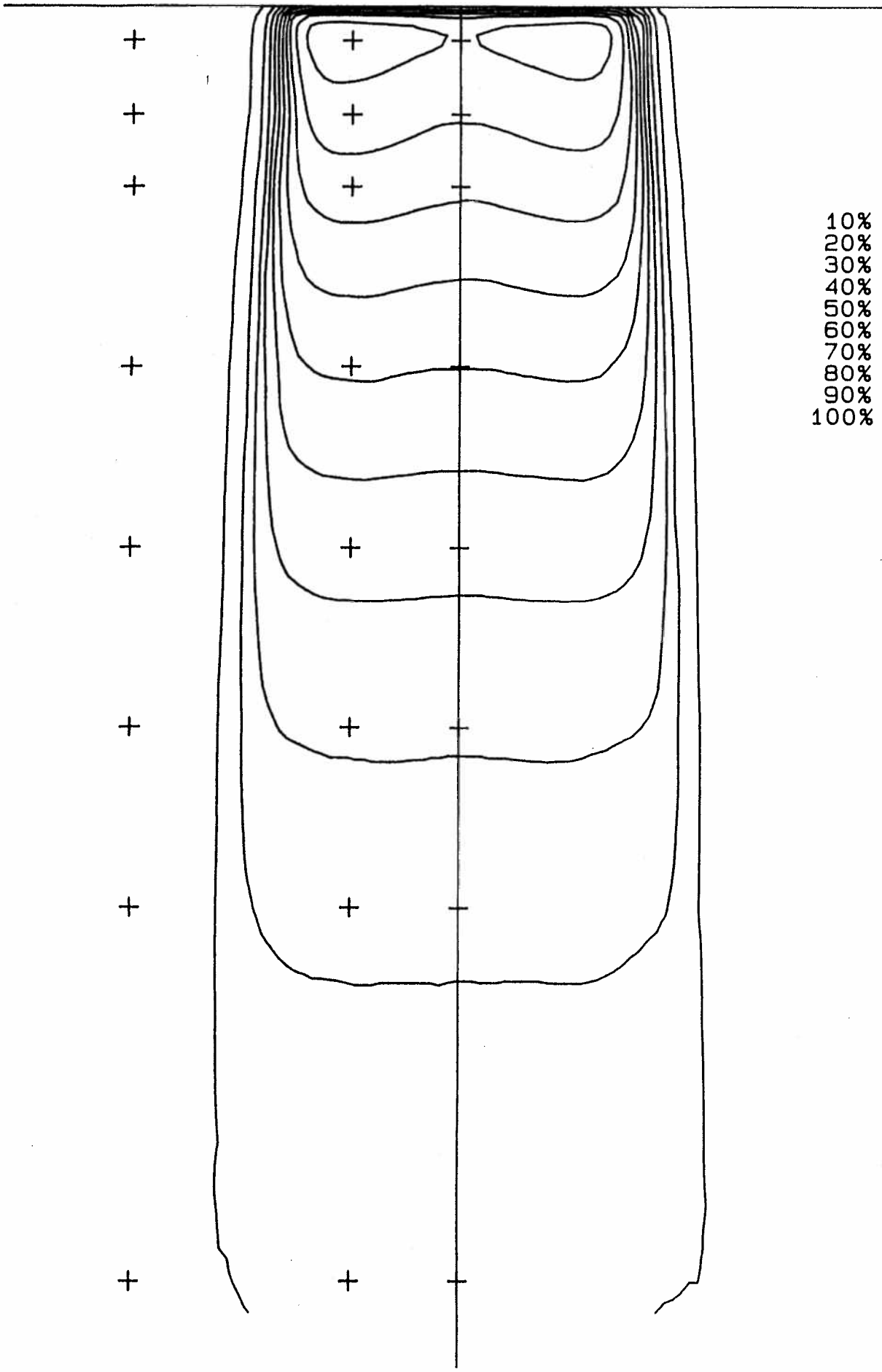
4 MV 5 X 5 cm Field Test Case plot 28a

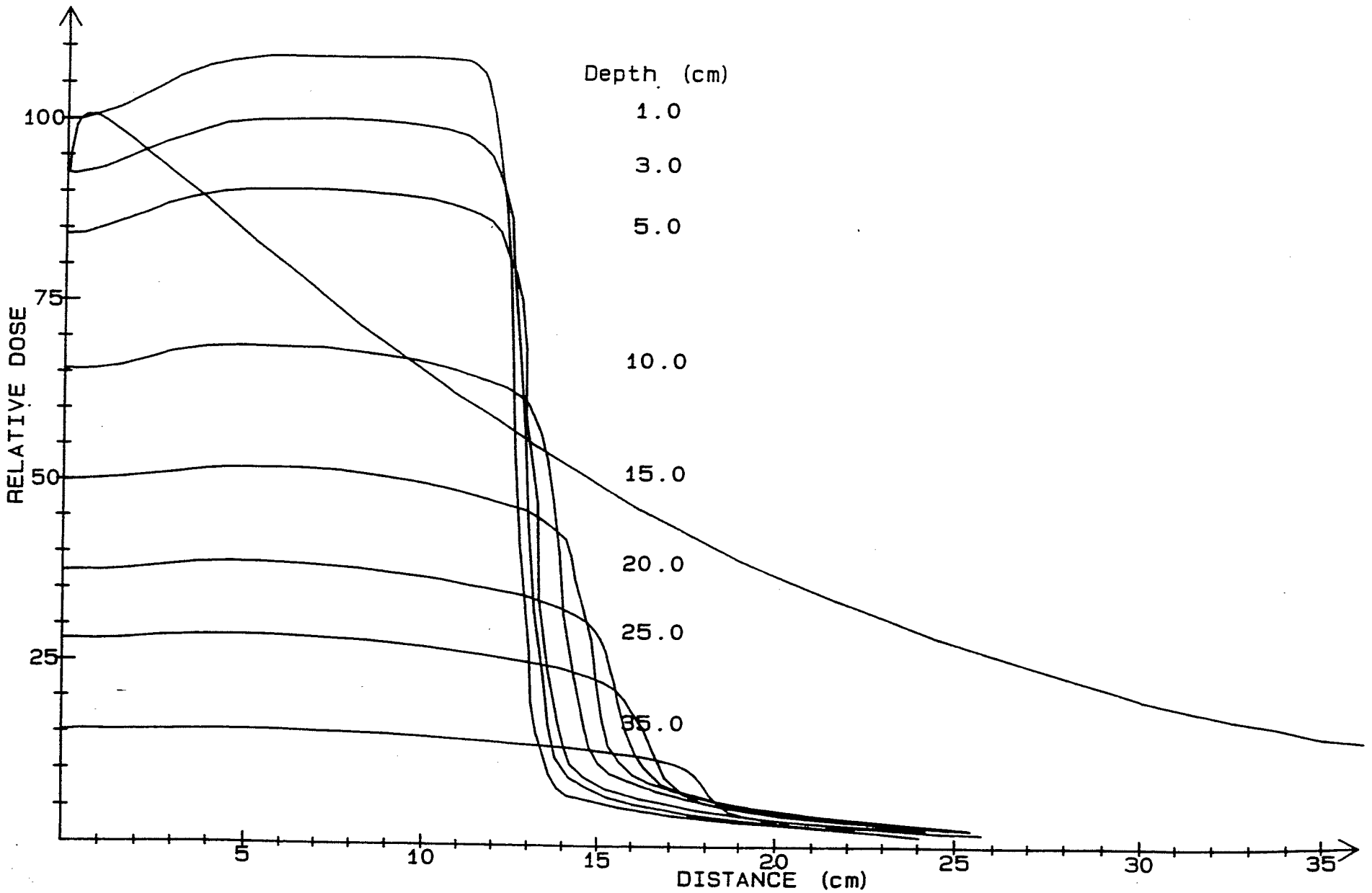


4 MV 10 X 10 cm Field Test Case plot 29.

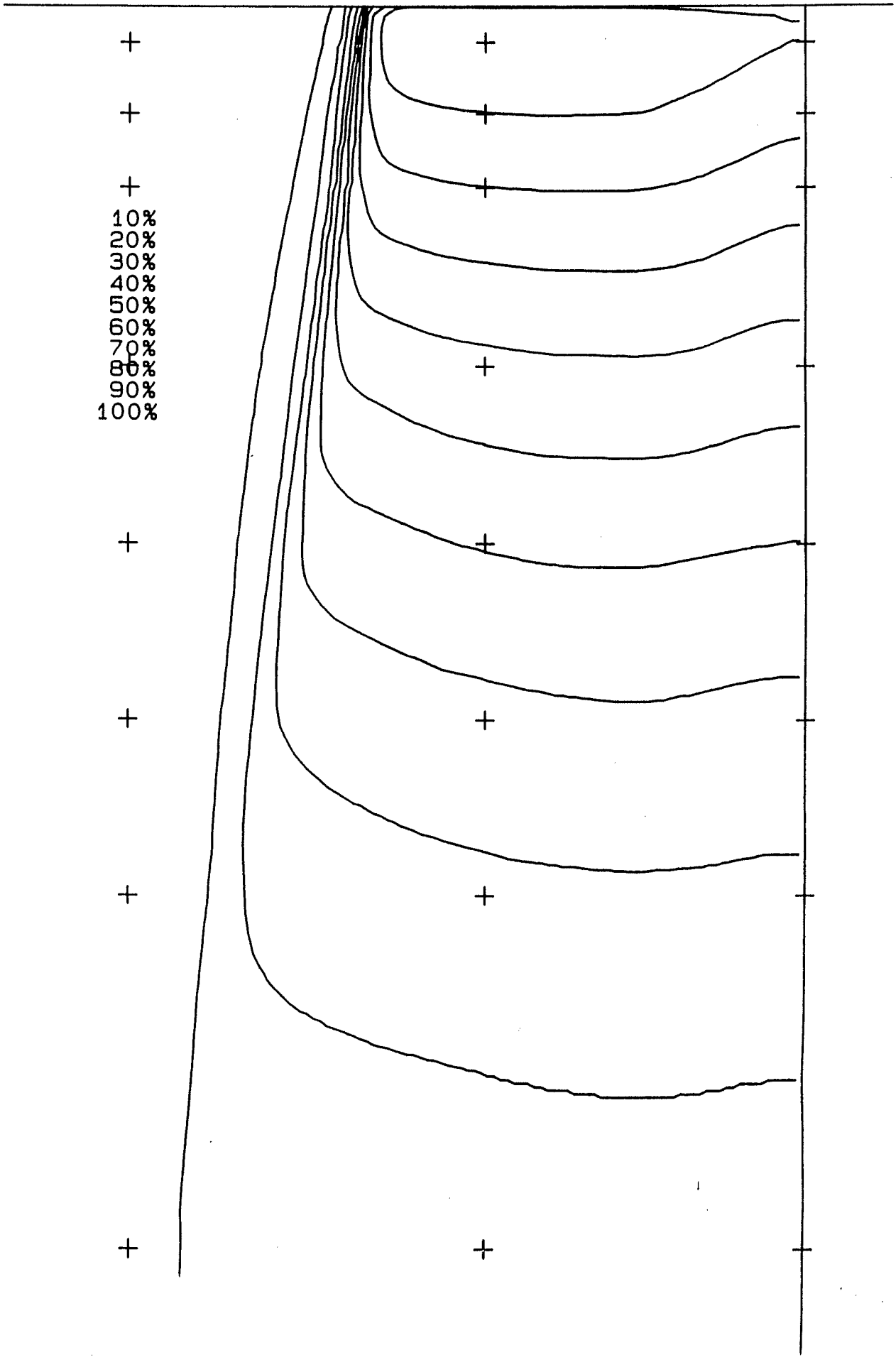


4 MV 10 X 10 cm Field Test Case plot 29a

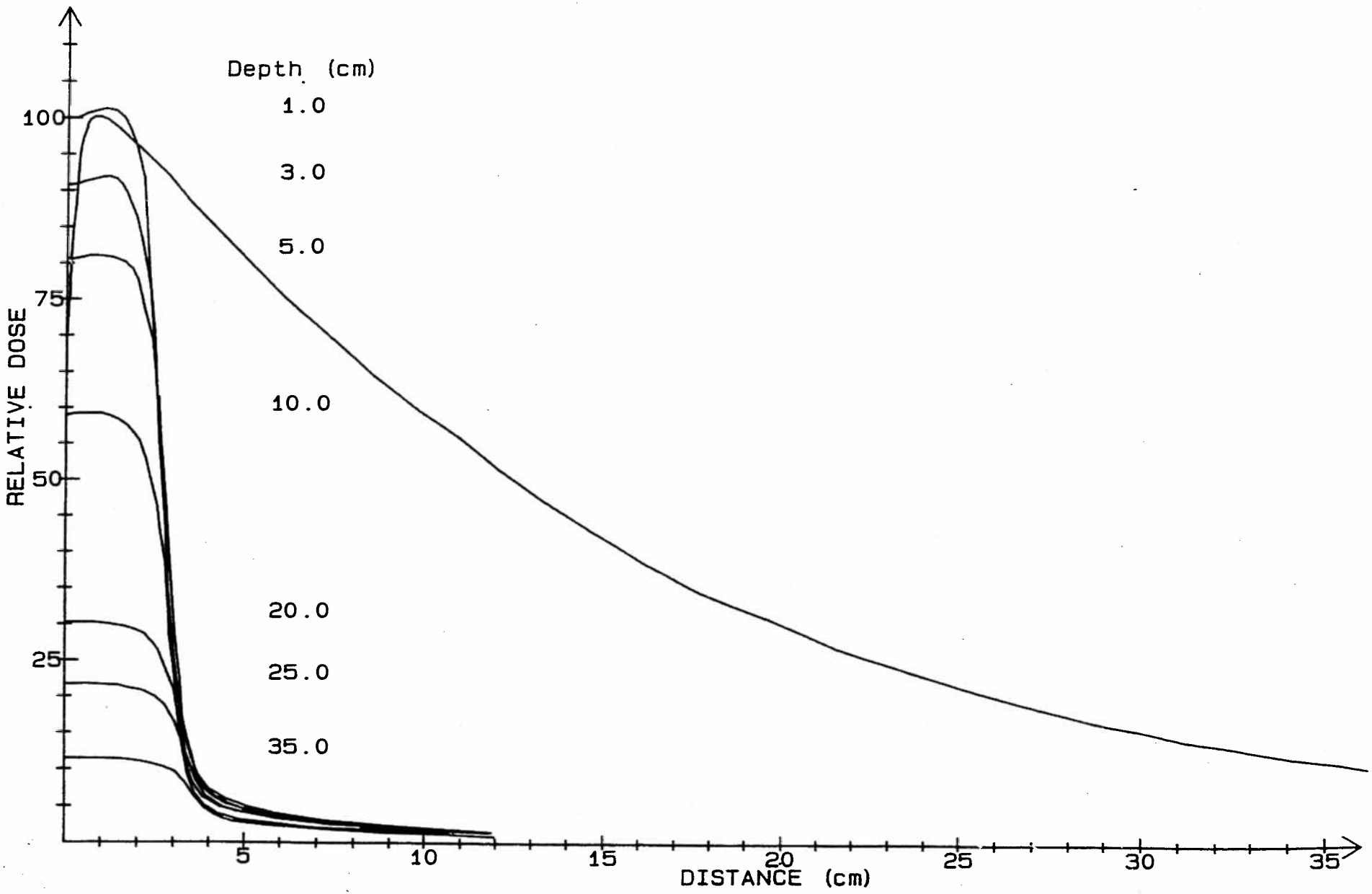



4 MV 25 X 25 cm Field Test Case
plot 30
Depth (cm)
1.0
3.0
5.0
10.0
15.0
20.0
25.0
35.0
RELATIVE DOSE
100
75
50
25
5
10
15
20
25
30
35
DISTANCE (cm)

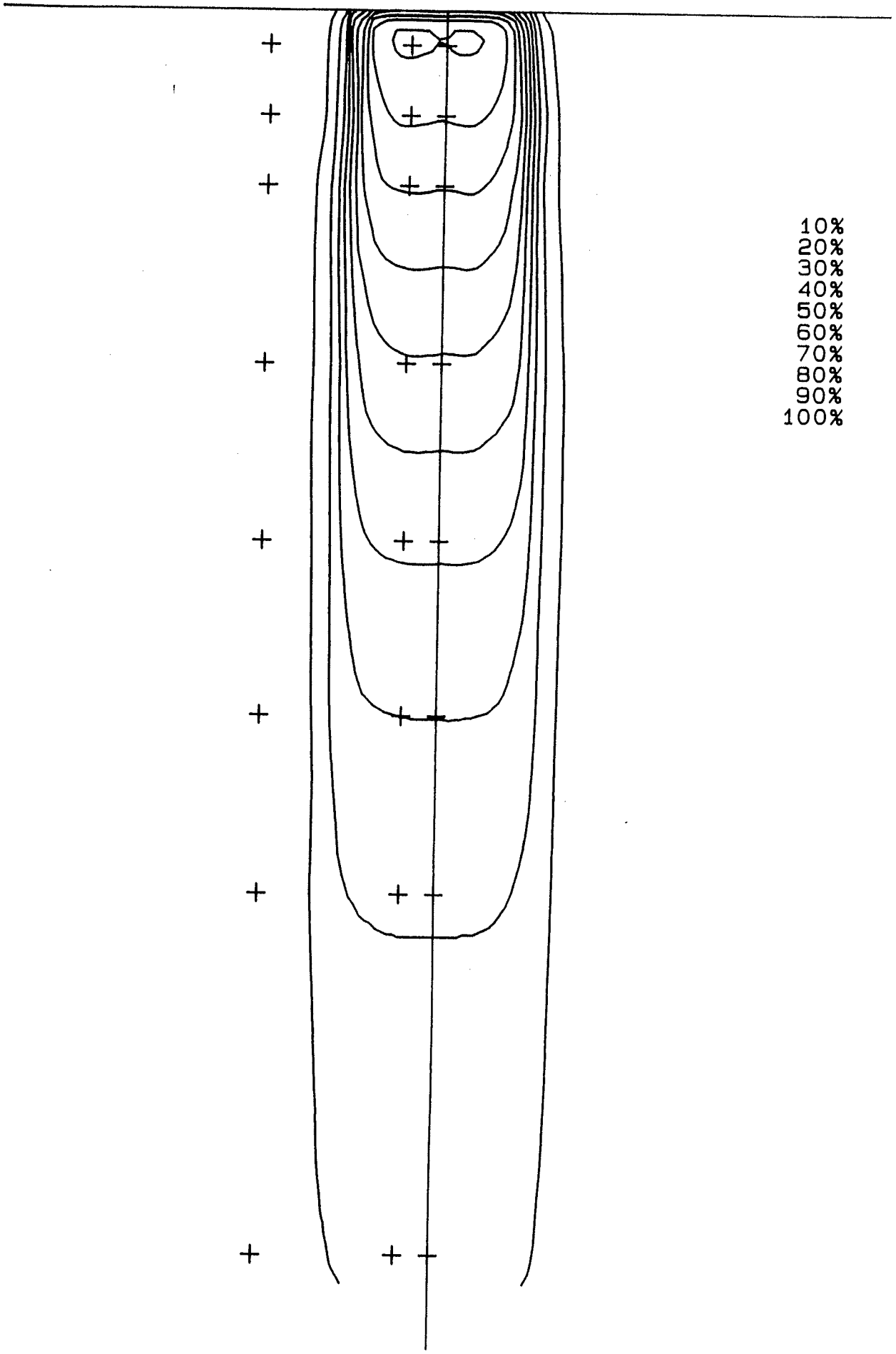
4 MV 25 X 25 cm Field Test Case plot 30a

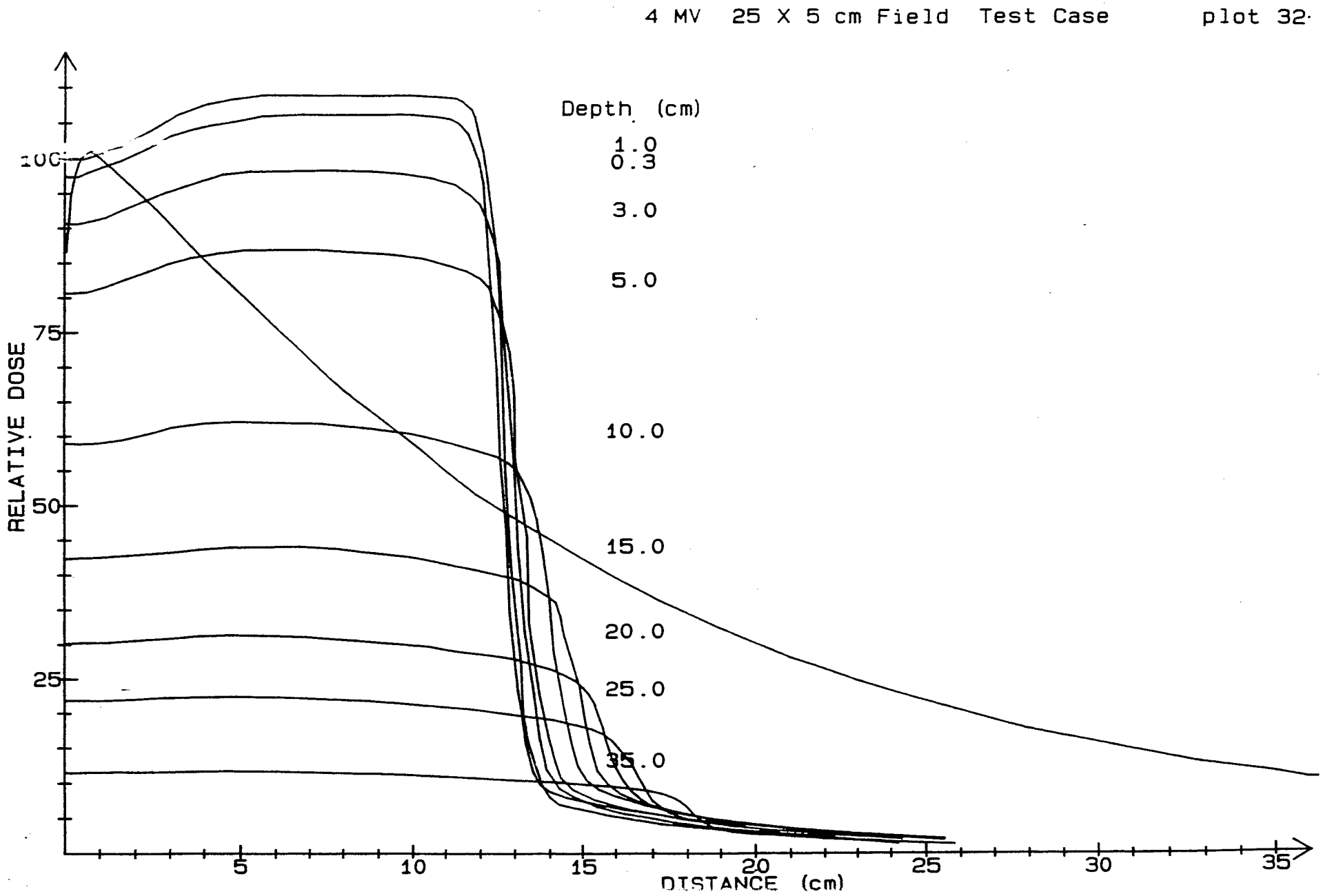


4 MV 5 X 25 cm Field Test Case plot 31

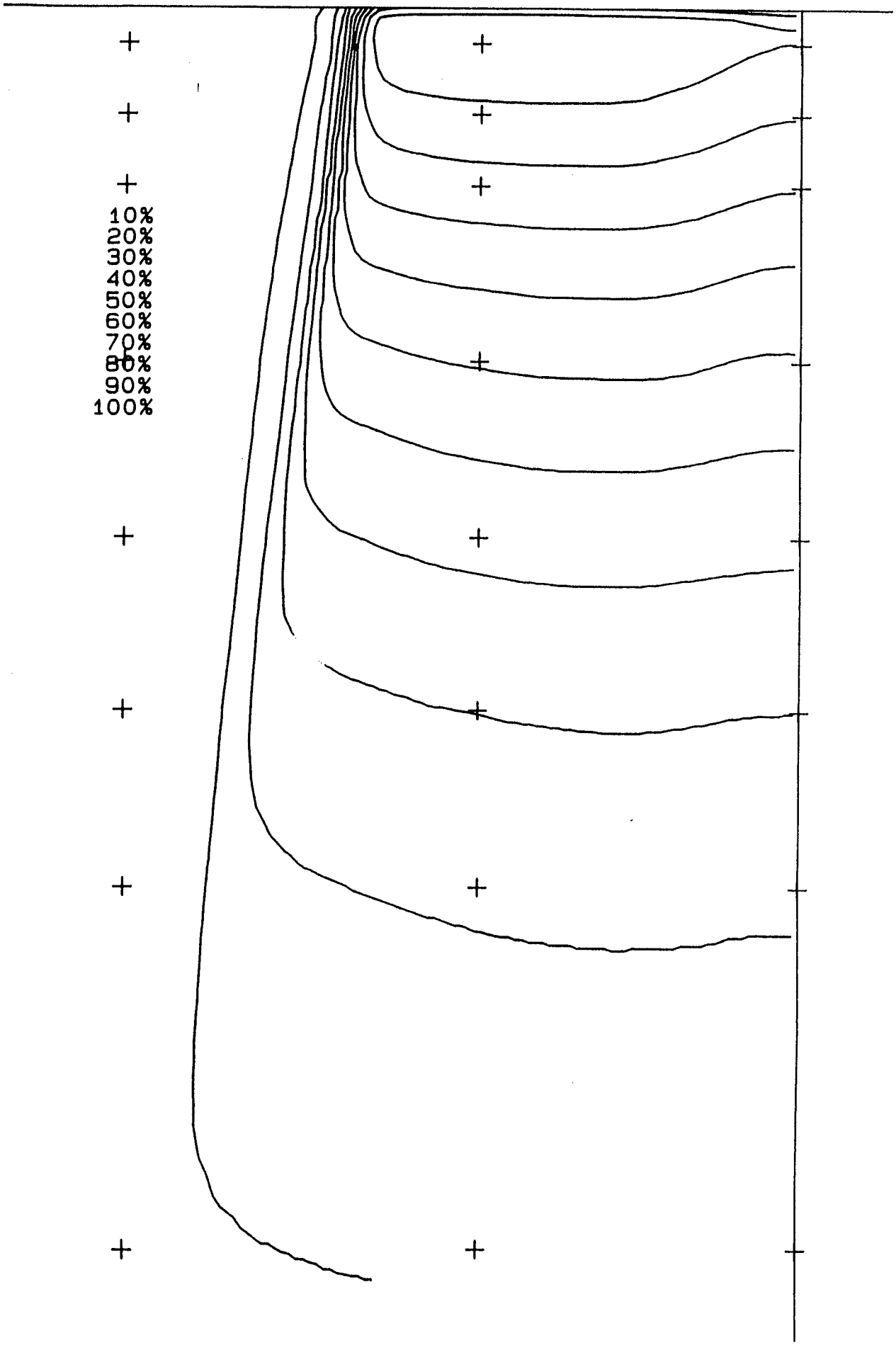


4 MV 5 X 25 cm Field Test Case plot 31a

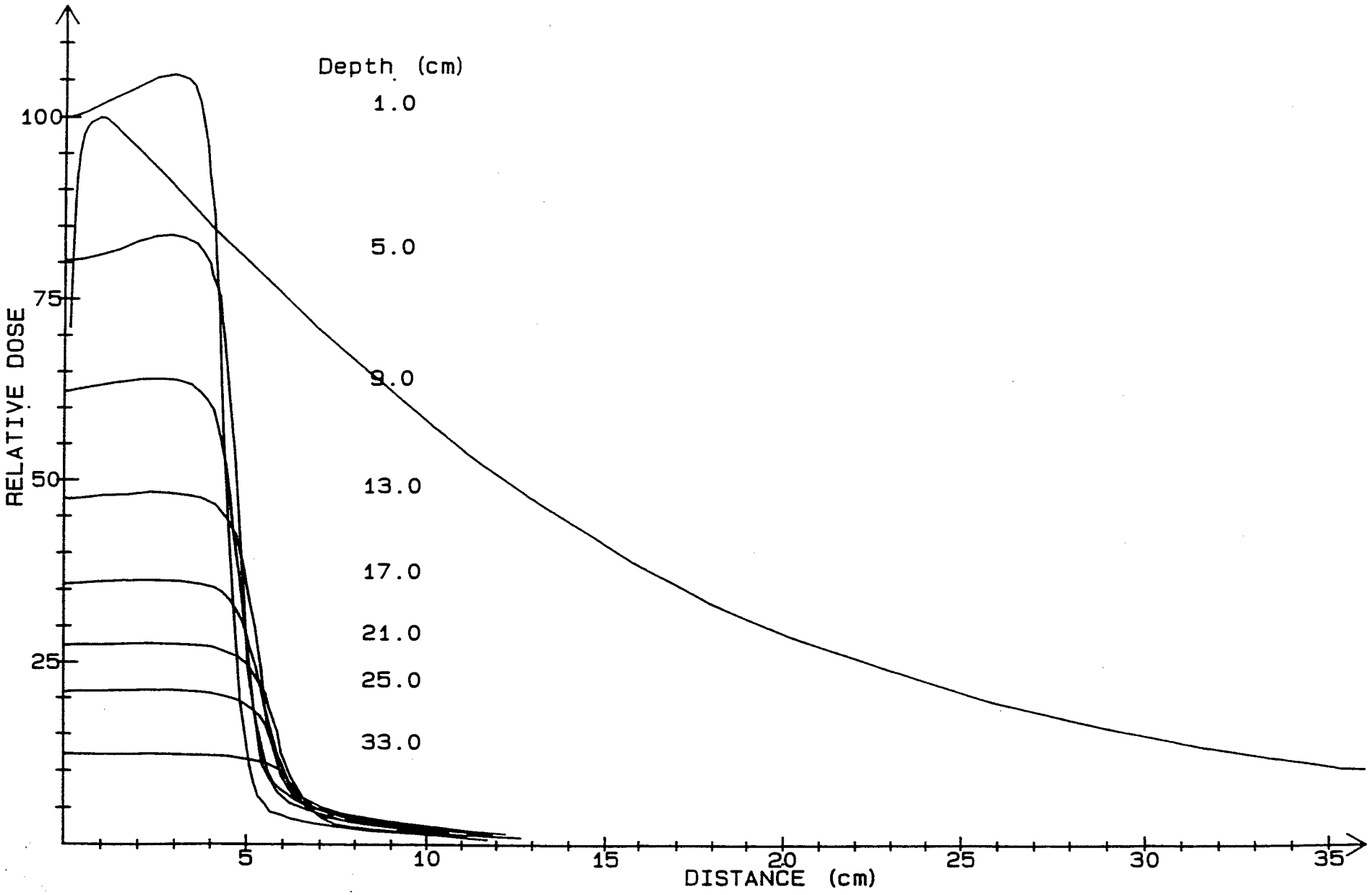



4 MV 25 X 5 cm Field Test Case
plot 32
Depth (cm)
1.0
0.3
3.0
5.0
10.0
15.0
20.0
25.0
35.0
100
75
50
25
RELATIVE DOSE
5
10
15
20
25
30
35
DISTANCE (cm)

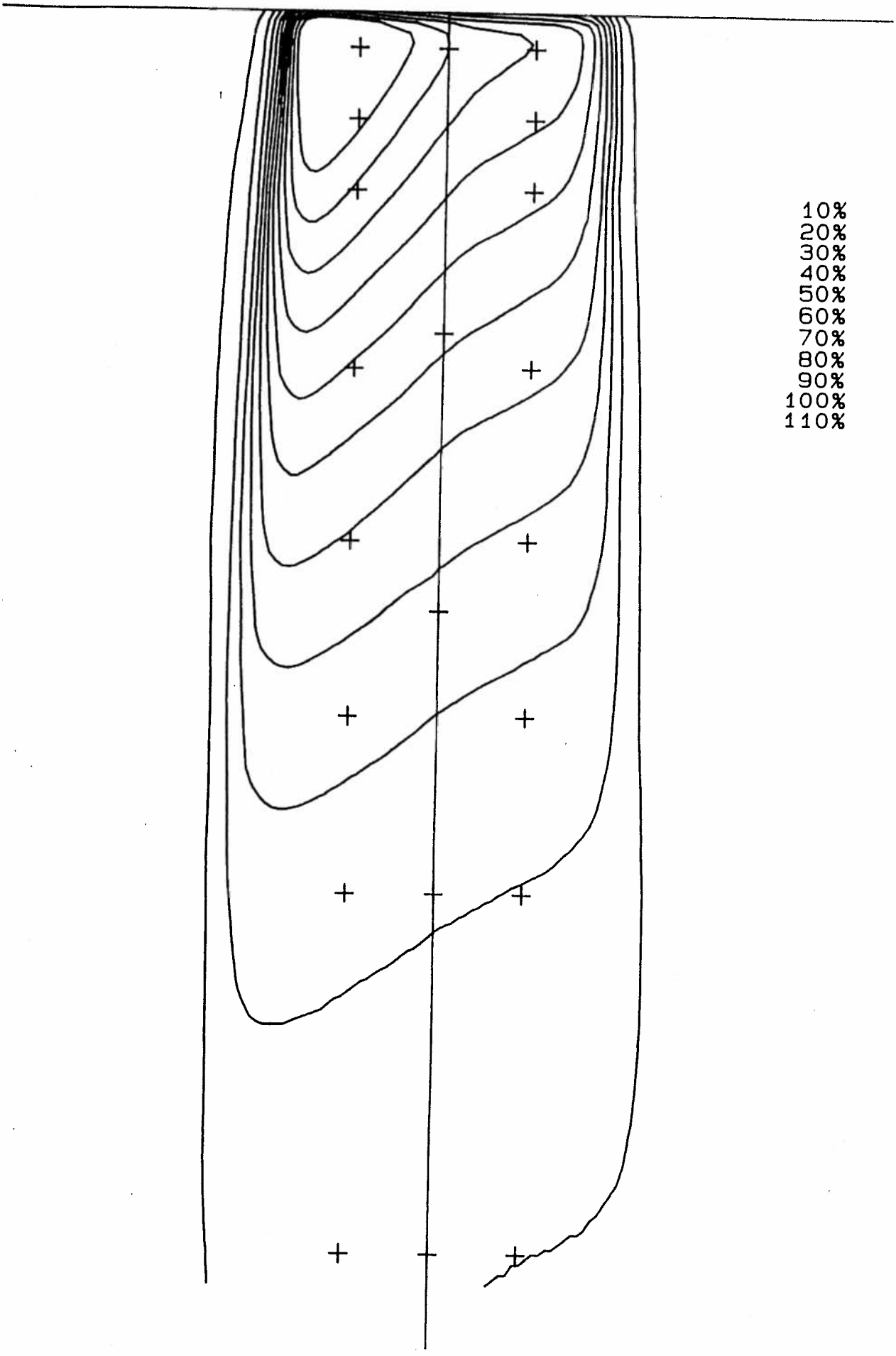
4 MV 25 X 5 cm Field Test Case plot 32a



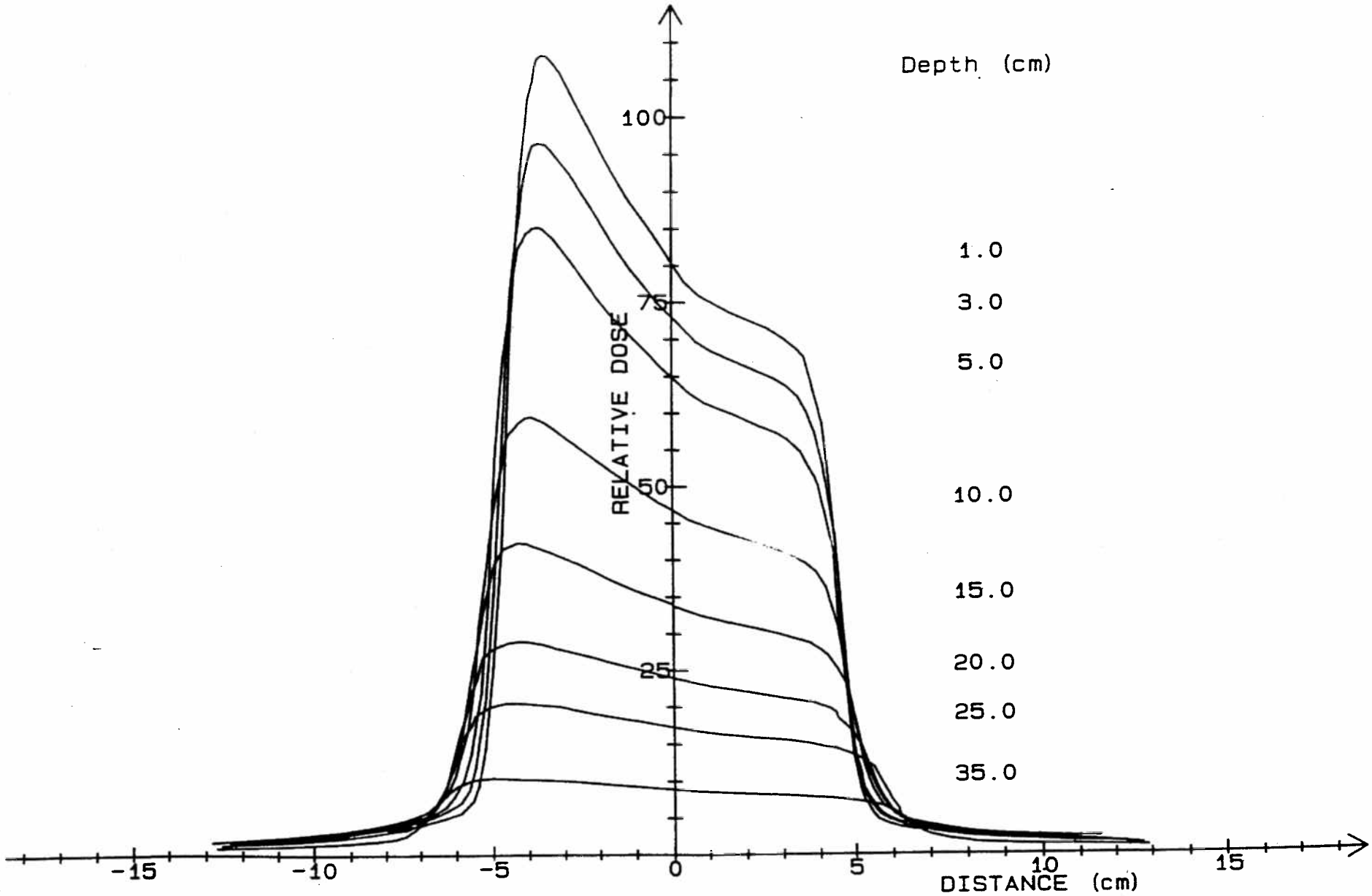
4 MV 10 X 10 cm Field 70 cm SSD Test Case plot 33



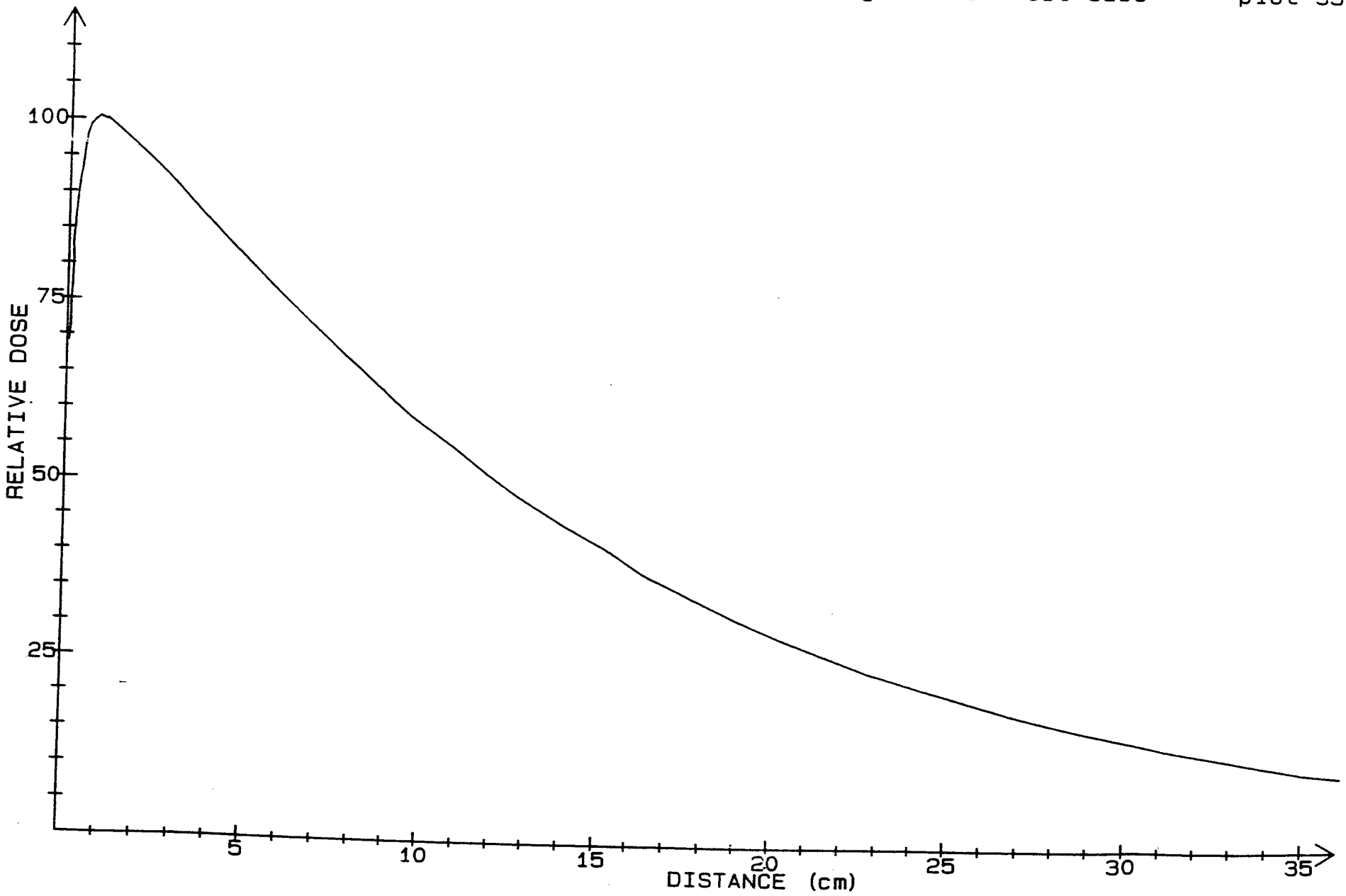
4 MV 9 X 9 cm Field Wedge Test Case plot 34a



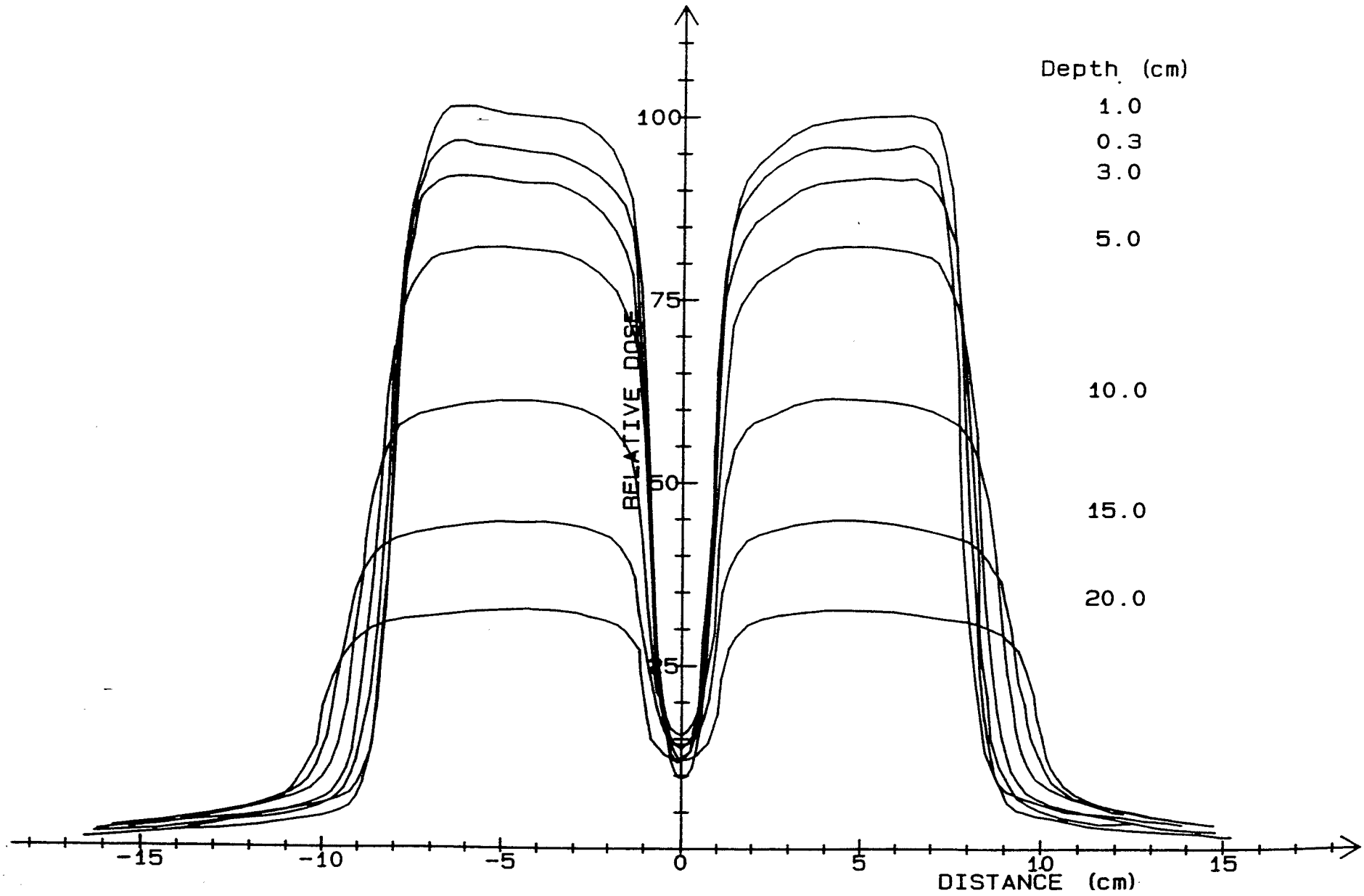
4 MV 9 X 9 cm Wedge Field Test Case (dose X 0.8) plot 34



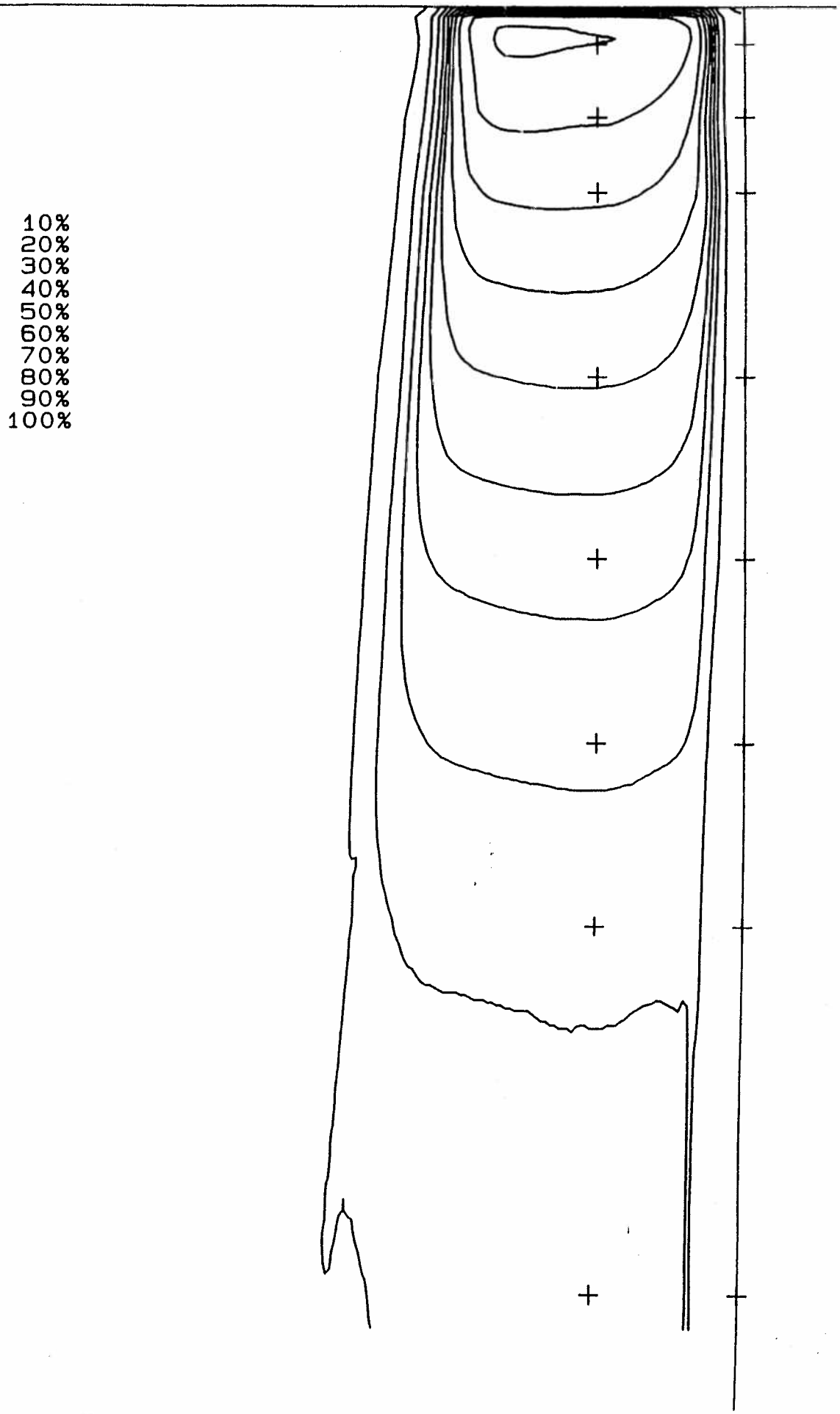
4 MV 9 X 9 cm Wedge Field Test Case plot 35



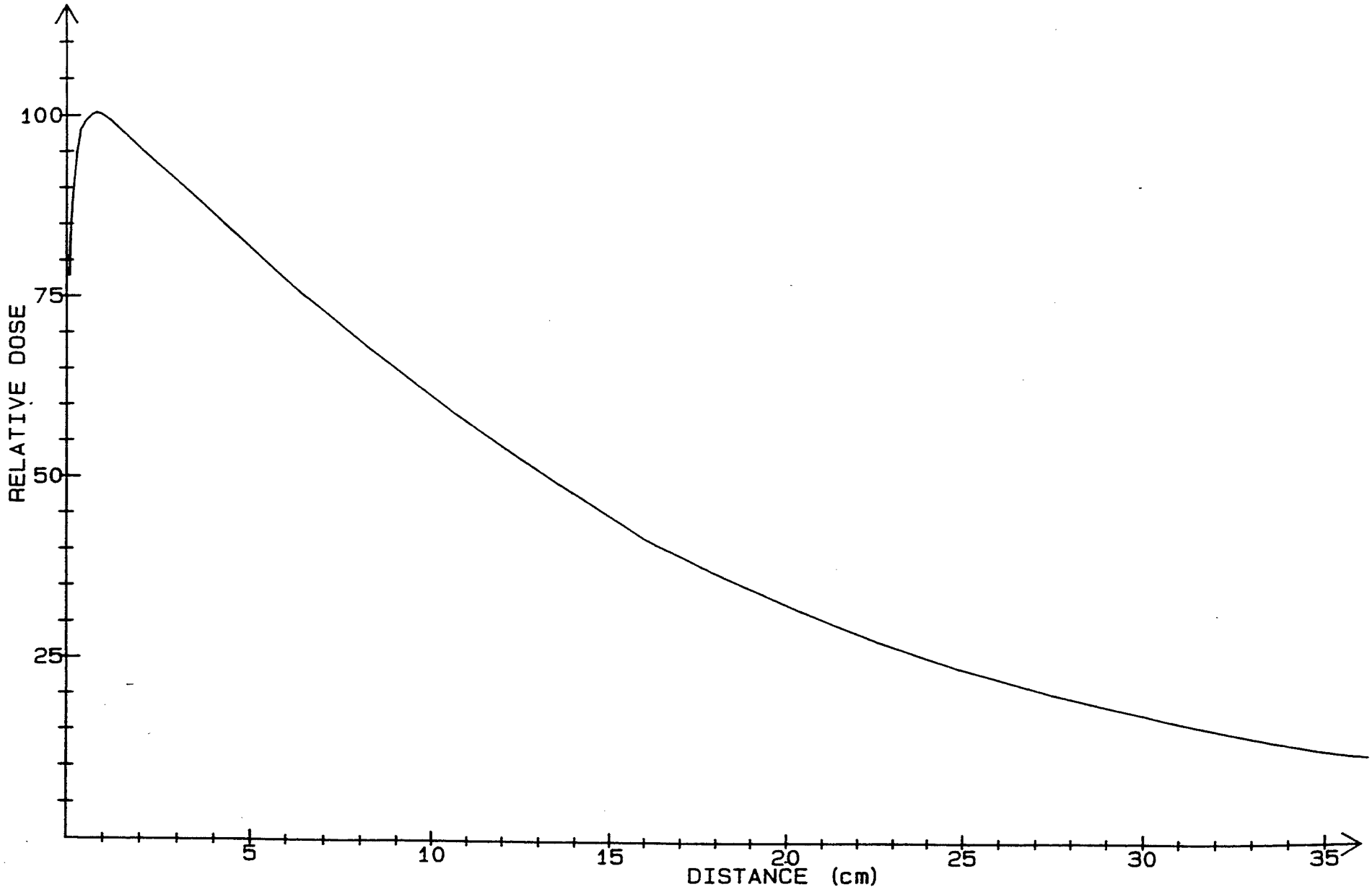
4 MV 16 X 16 cm Field Central Block Test Case plot 36

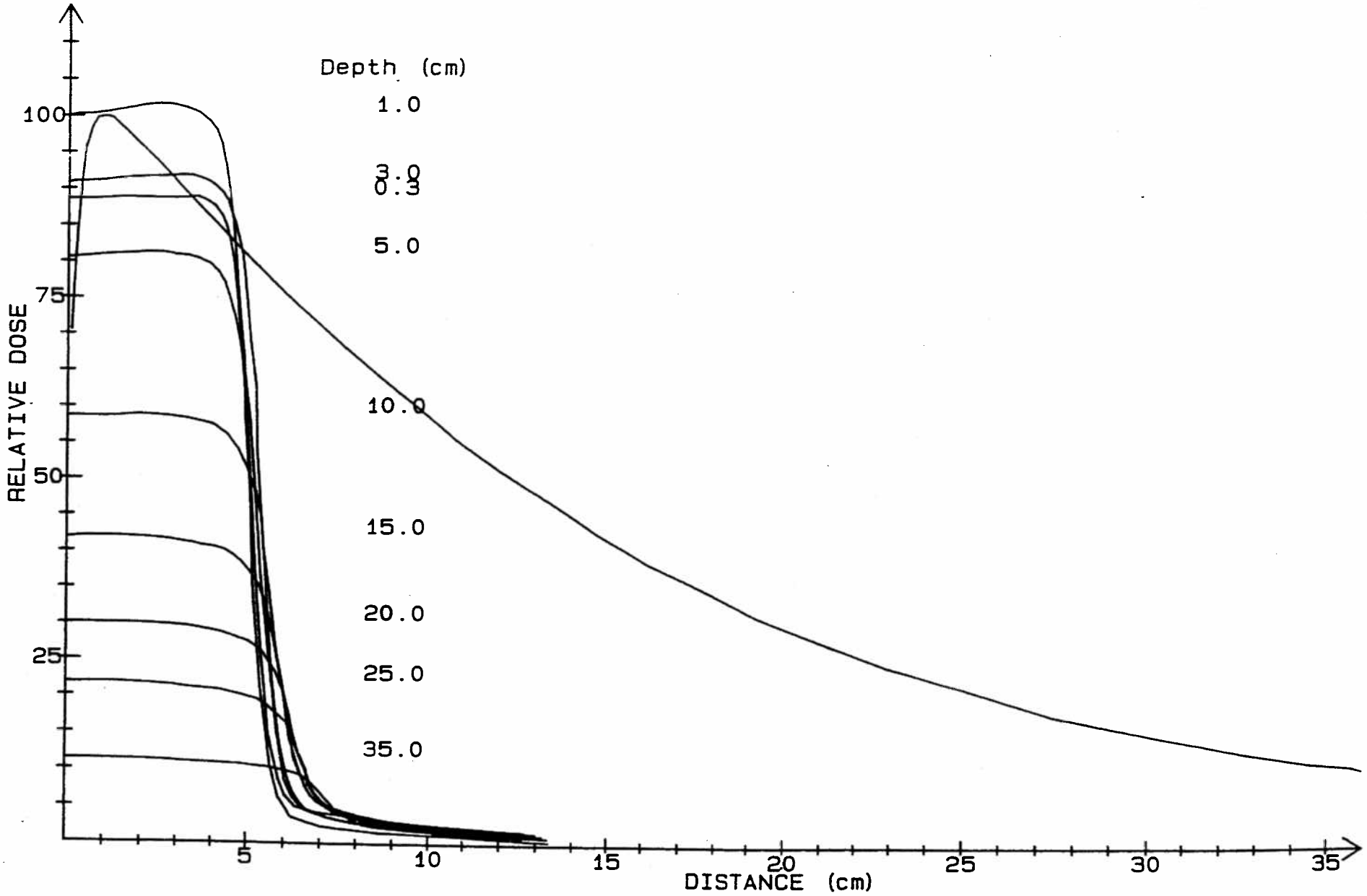


4 MV Central Block Test Case plot 36a

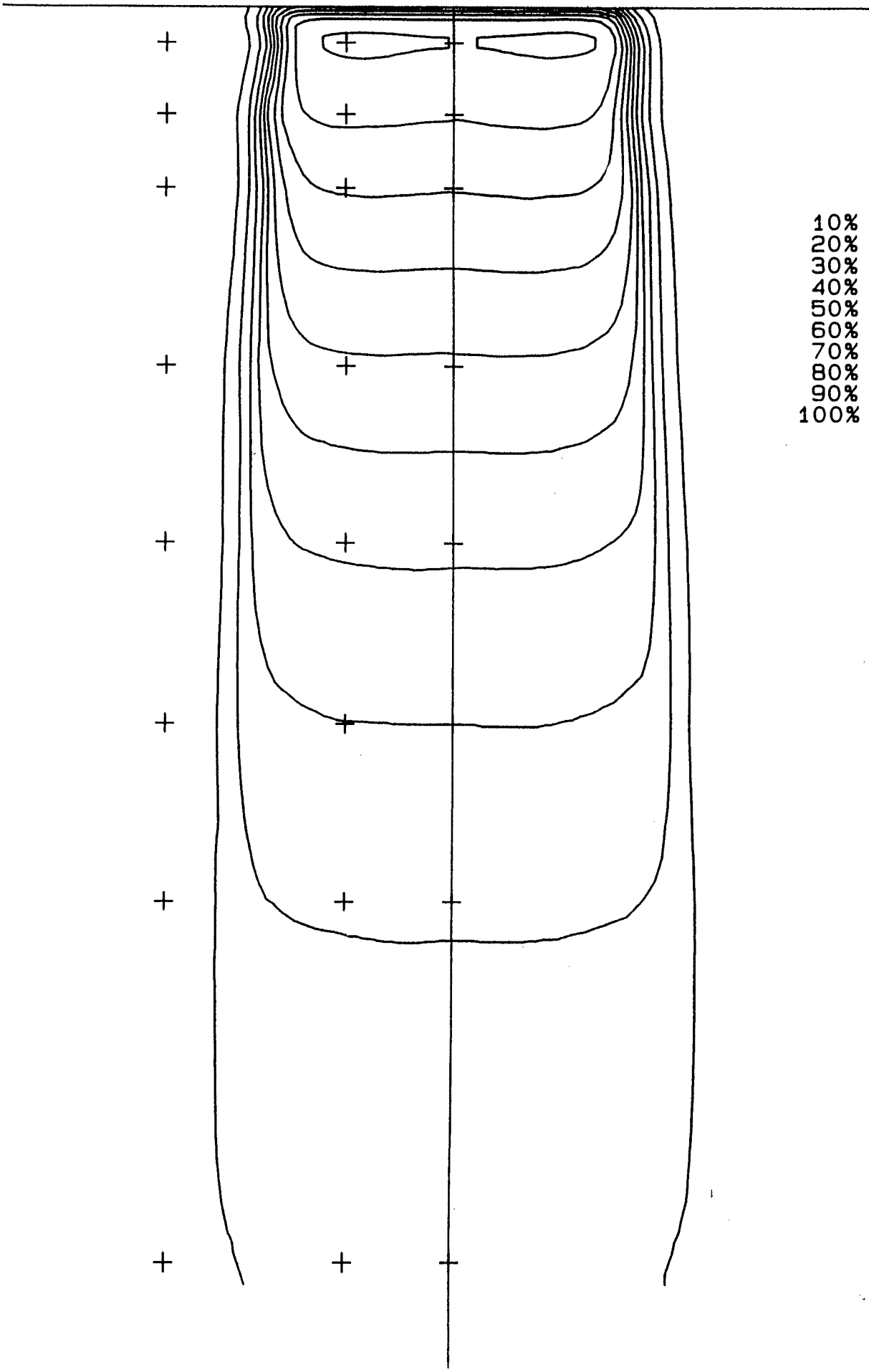


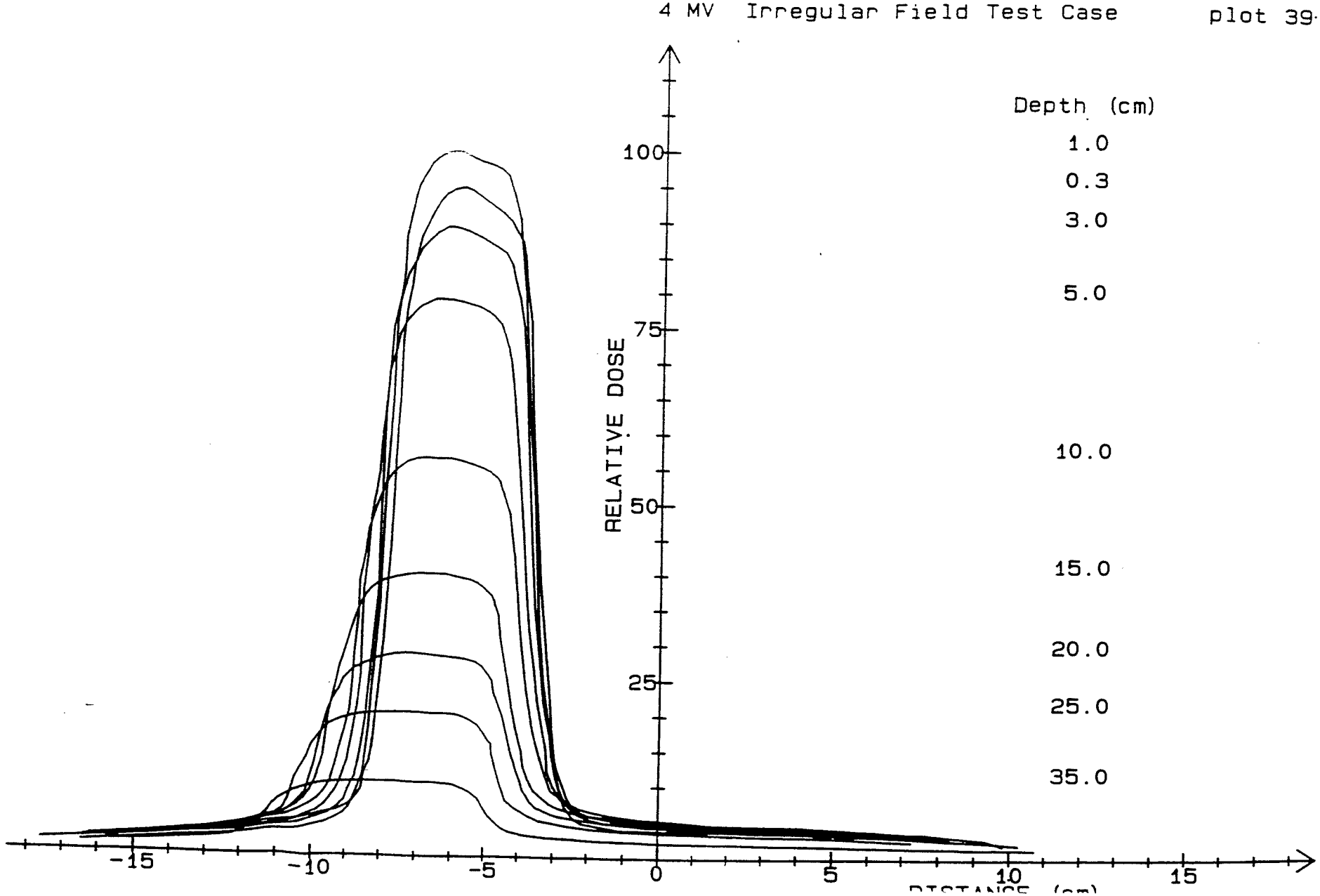
4 MV Central Block Test Case Depth Dose 4 cm Off Axis plot 37



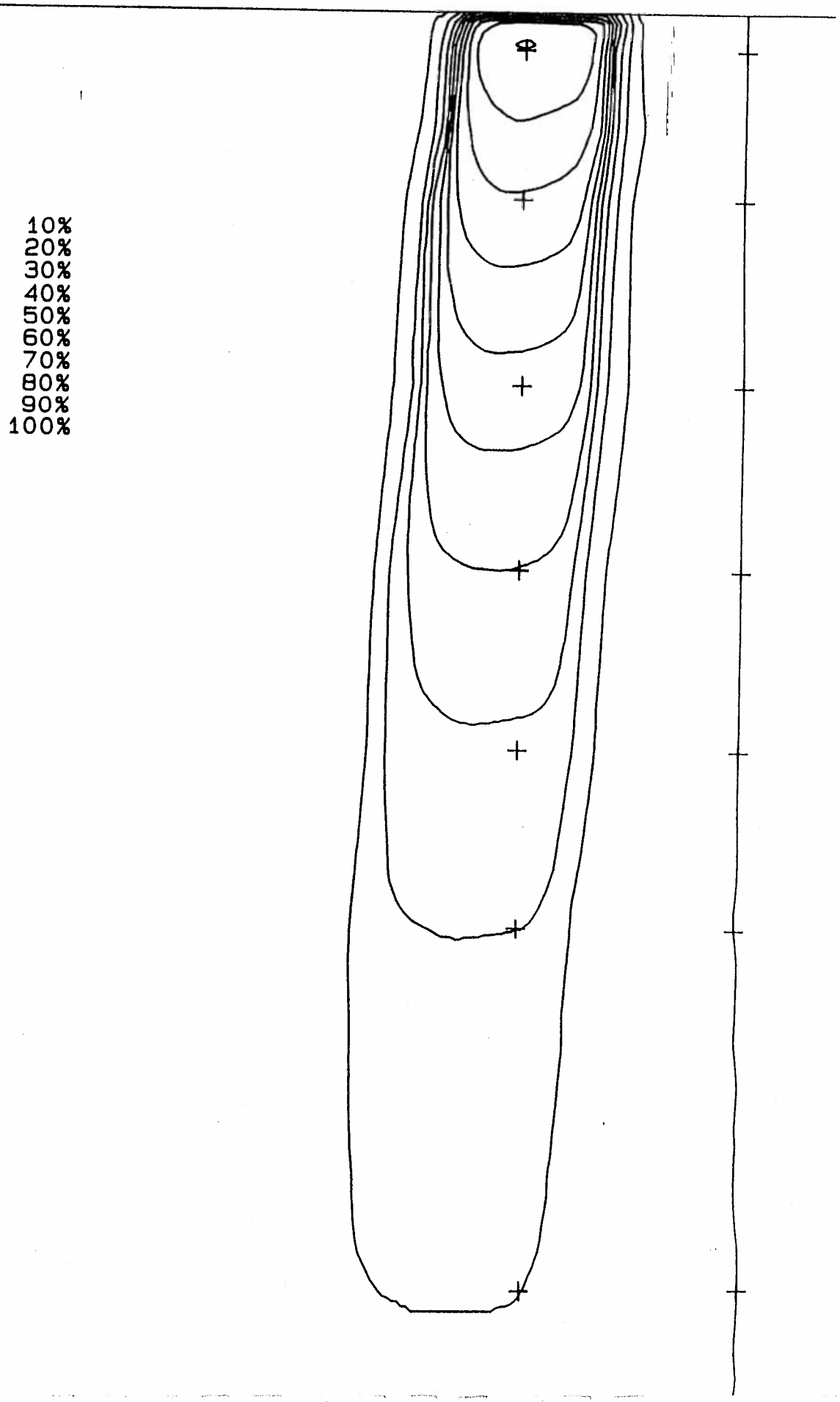

Depth (cm)
1.0
3.0
0.3
5.0
10.0
15.0
20.0
25.0
35.0
100
75
50
25
RELATIVE DOSE
5
10
15
20
25
30
35
DISTANCE (cm)

4 MV Off-Center Plane Test Case plot 38a

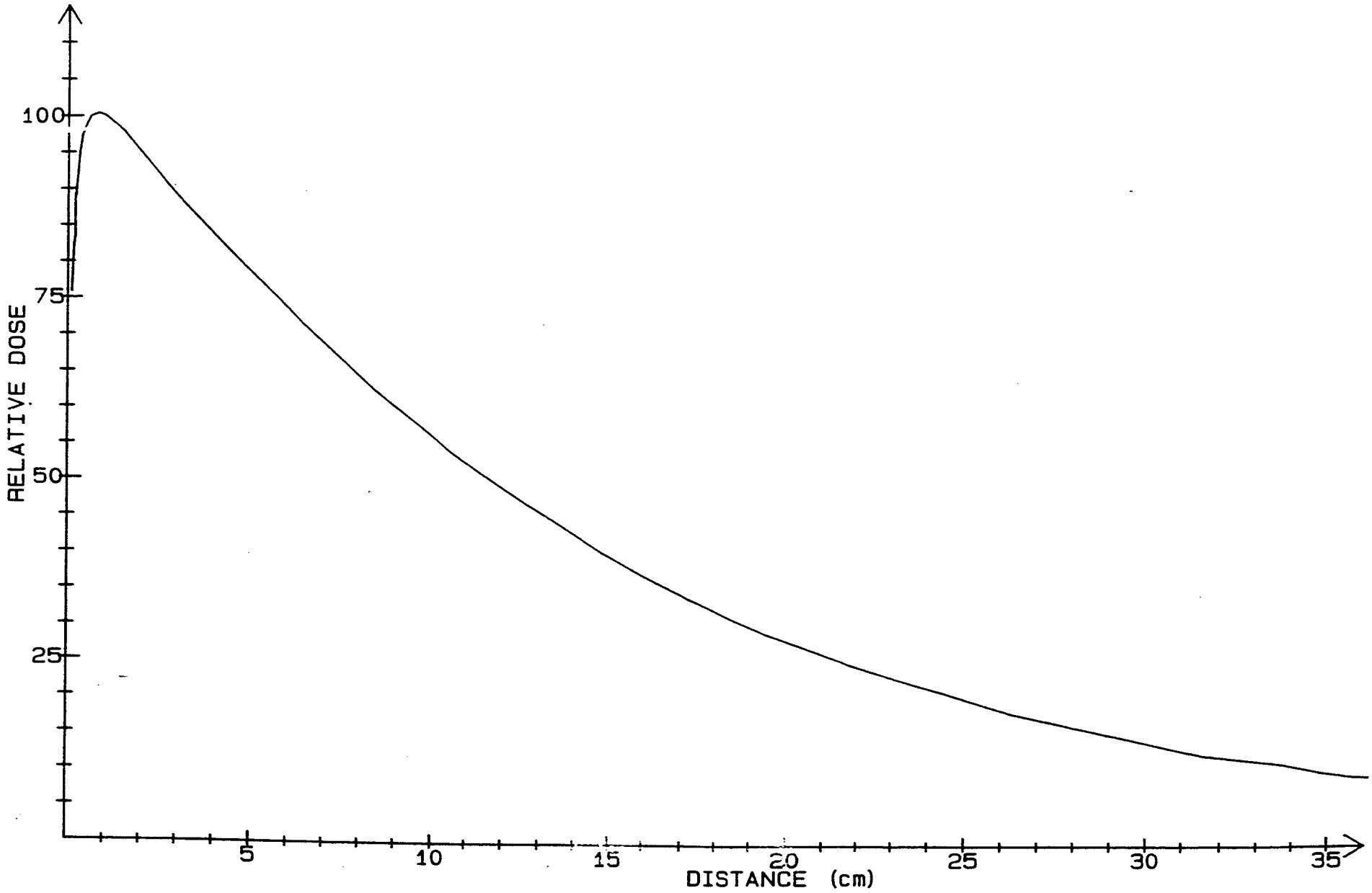


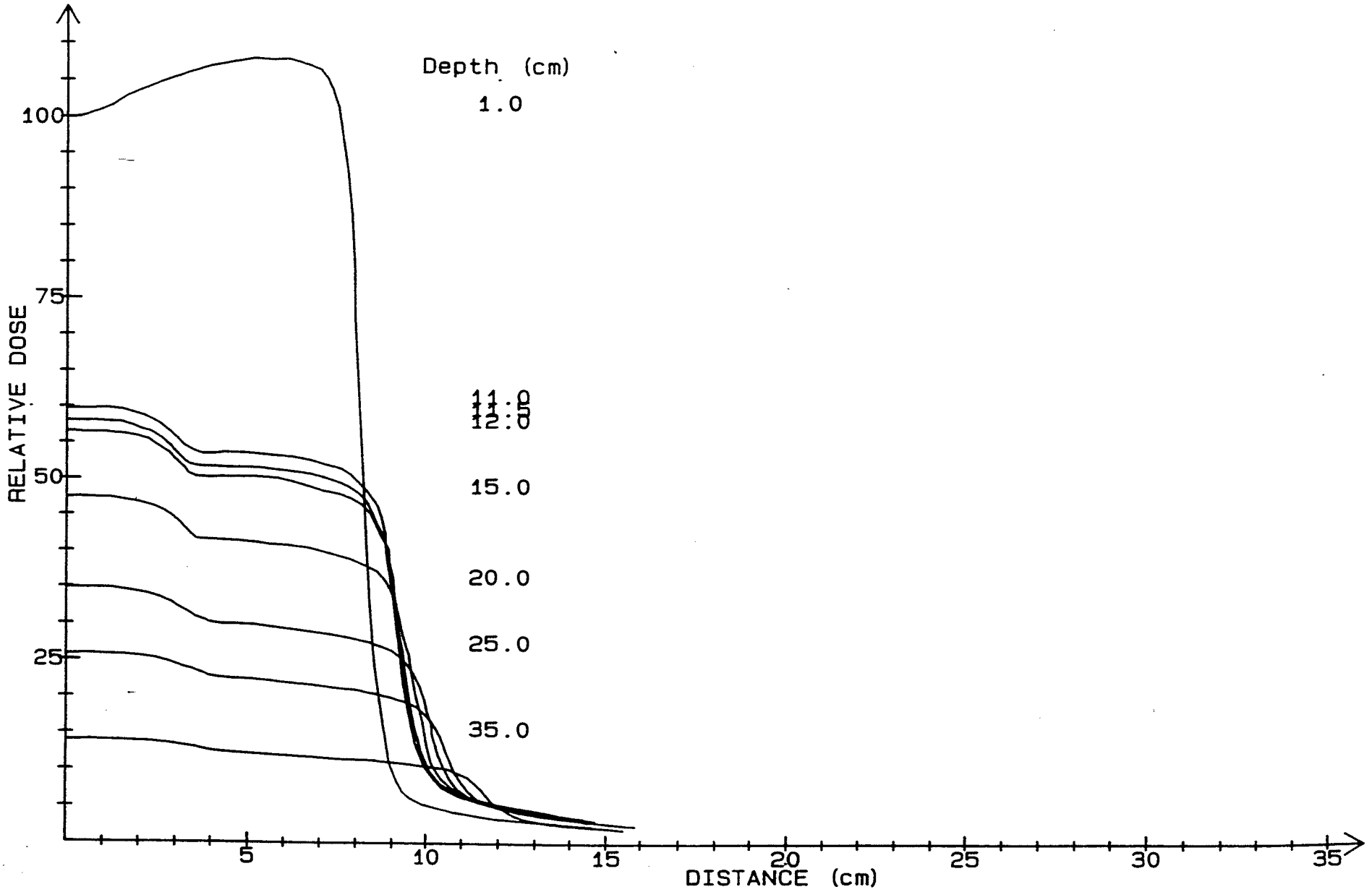

4 MV Irregular Field Test Case
plot 39
Depth (cm)
1.0
0.3
3.0
5.0
10.0
15.0
20.0
25.0
35.0
RELATIVE DOSE
100
75
50
25
-15
-10
-5
0
5
10
15

4 MV Irregular Field Test Case plot 39a

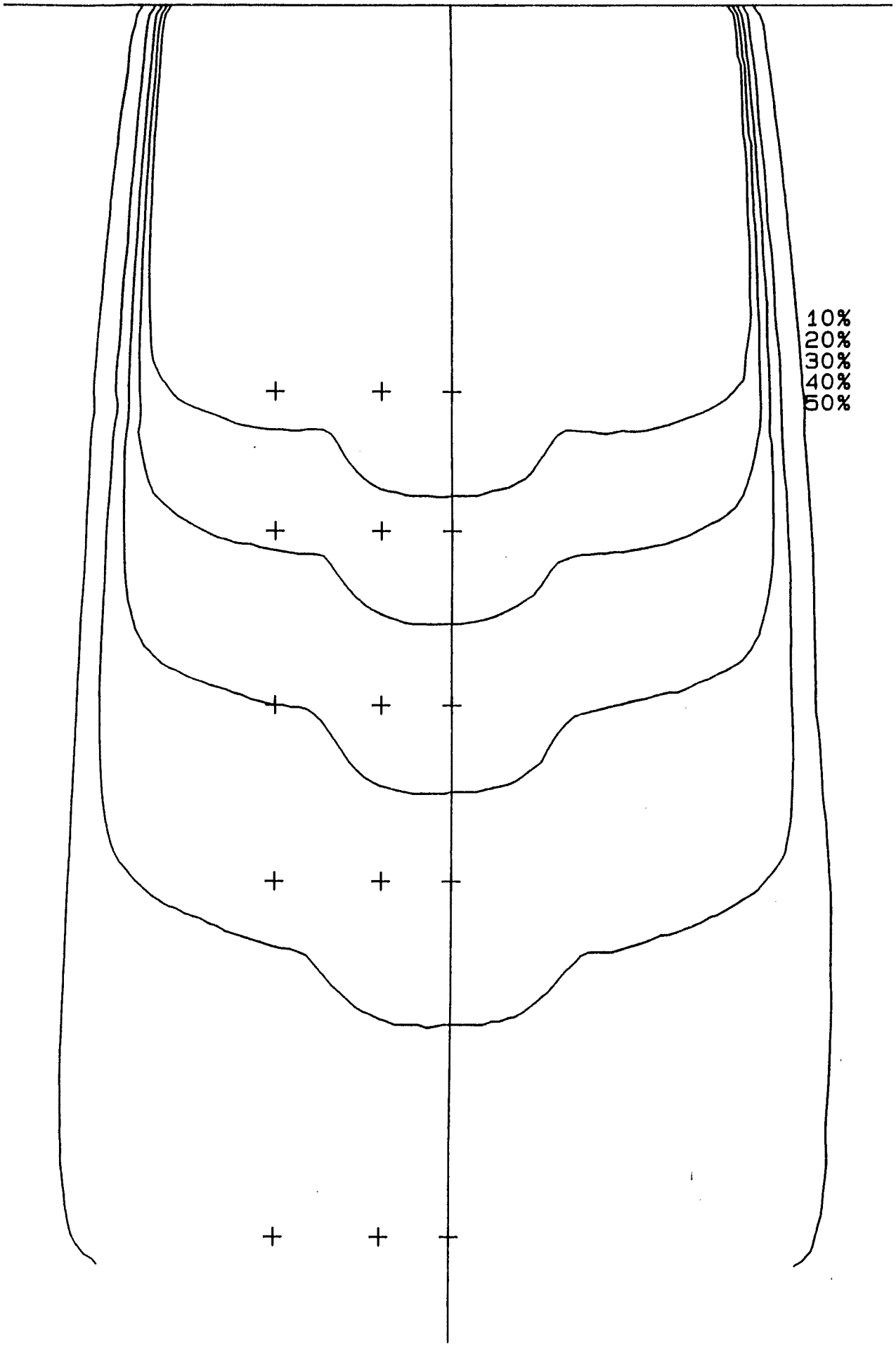


4 MV Iregular Field Test Case Depth Dose 6 cm Off Axis plot 40

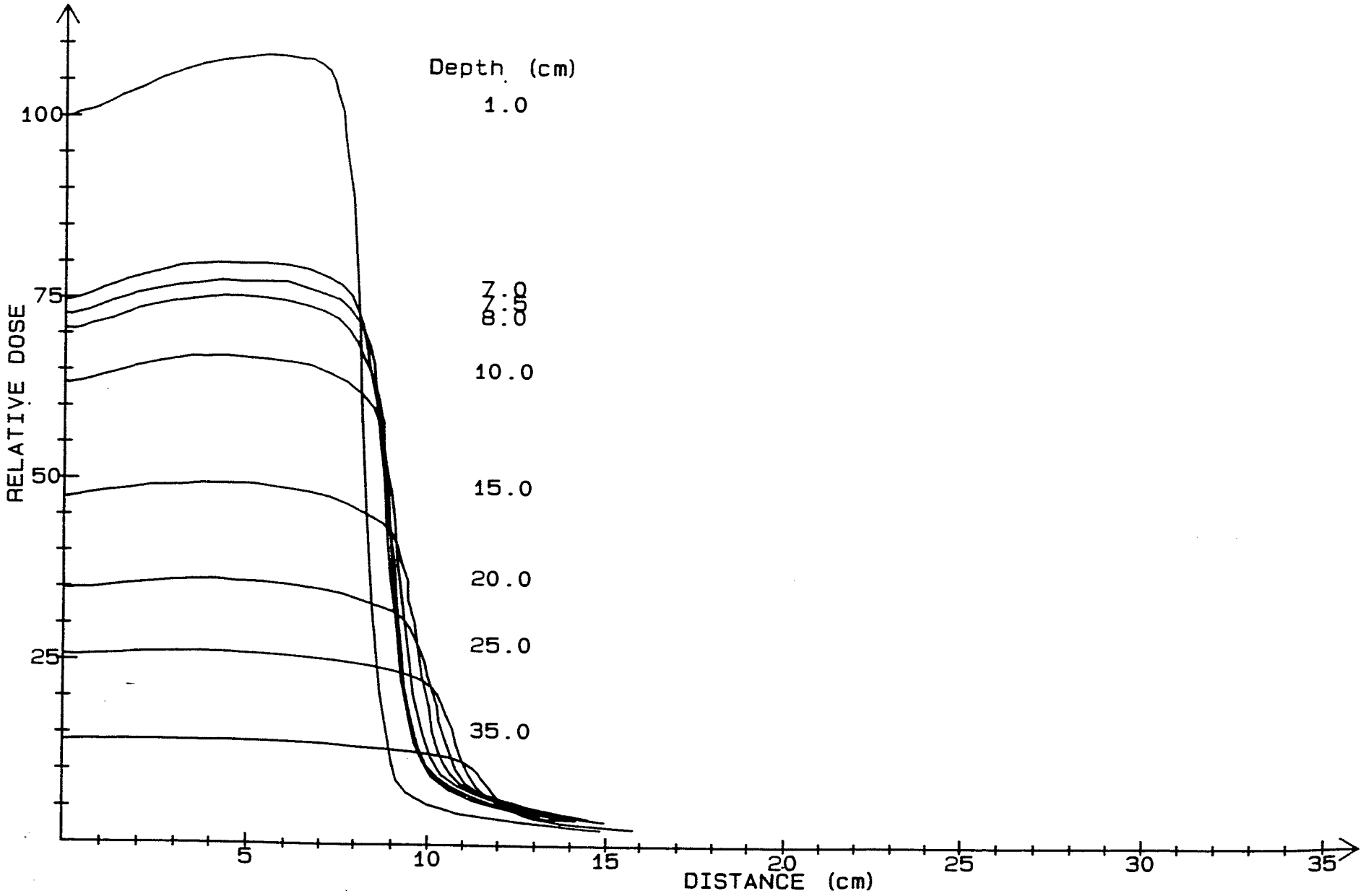



Depth (cm)
1.0
11.0
11.5
12.0
15.0
20.0
25.0
35.0
RELATIVE DOSE
100
75
50
25
5
10
15
20
25
30
35
DISTANCE (cm)

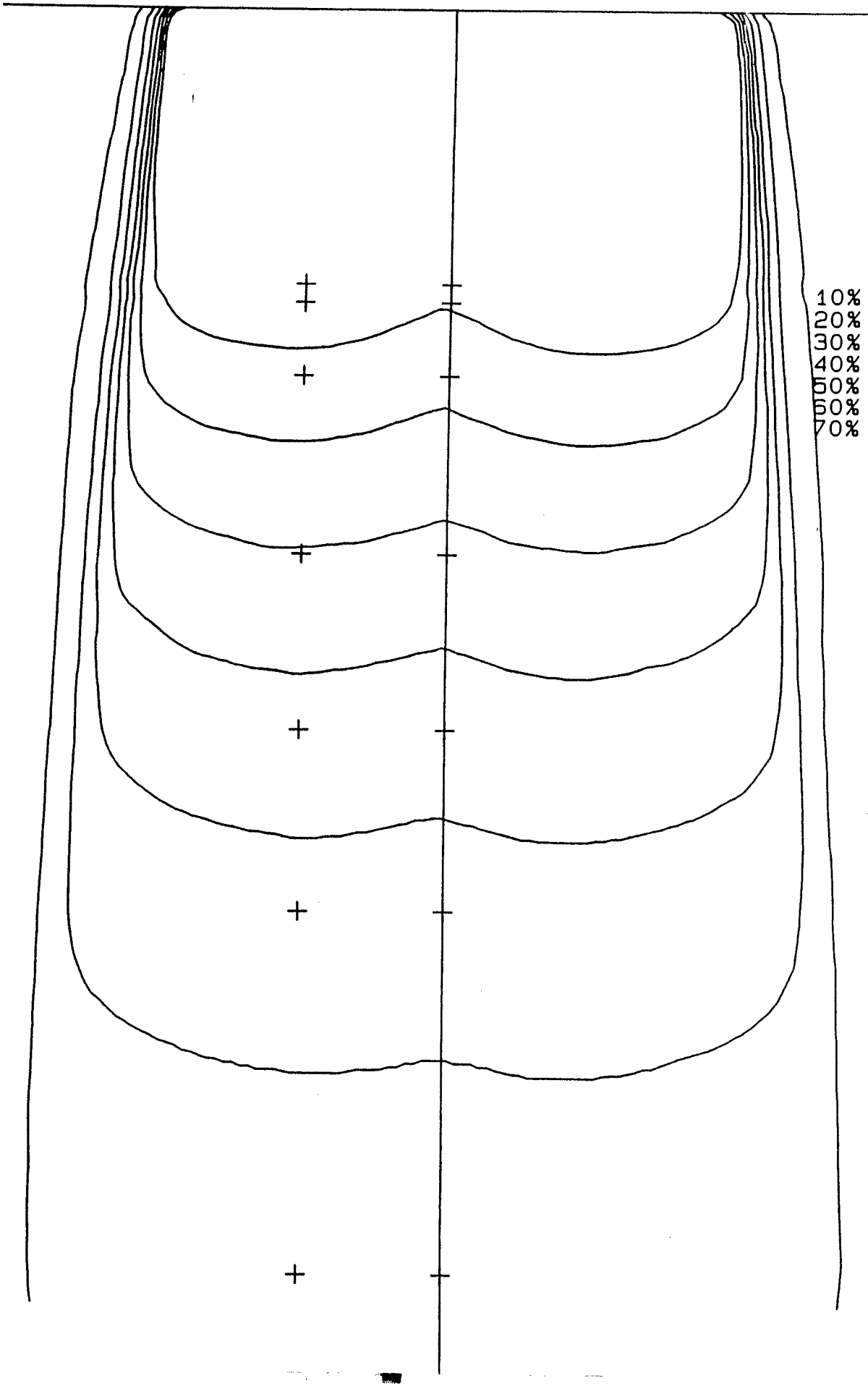
4 MV Lung Inhomogeneity Test Case plot 41a

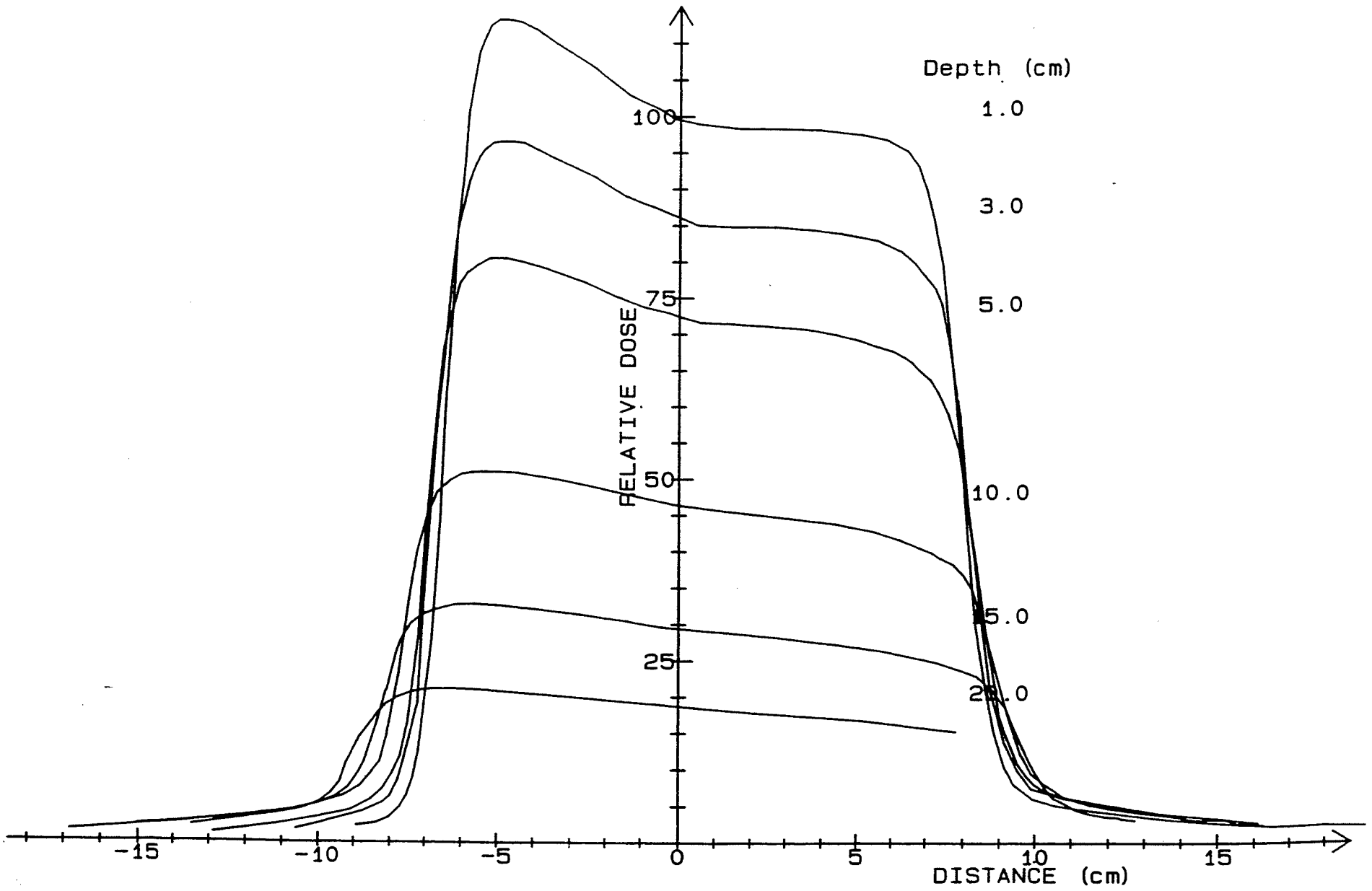


4 MV Bone Inhomogeneity Test Case plot 42

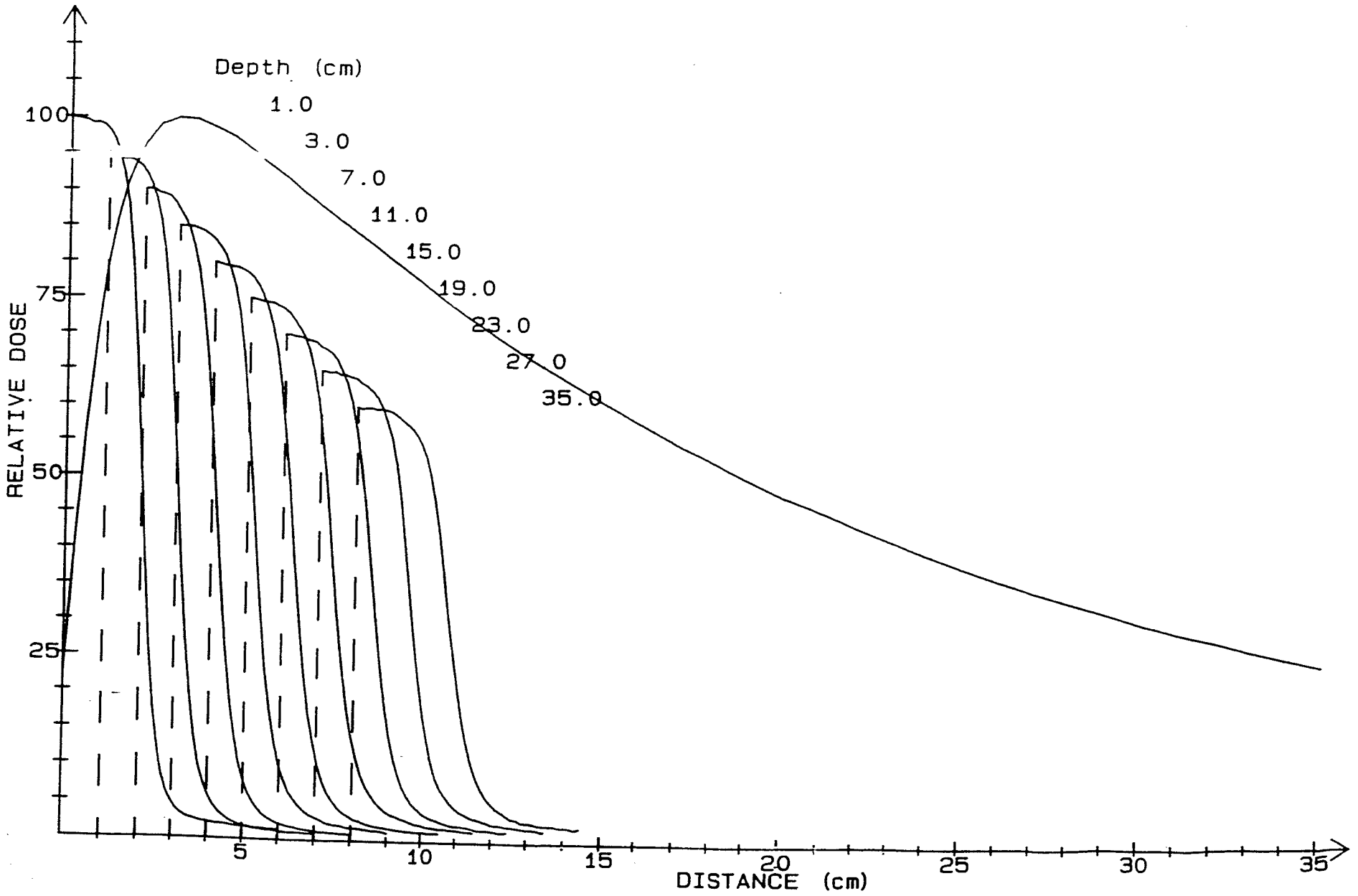


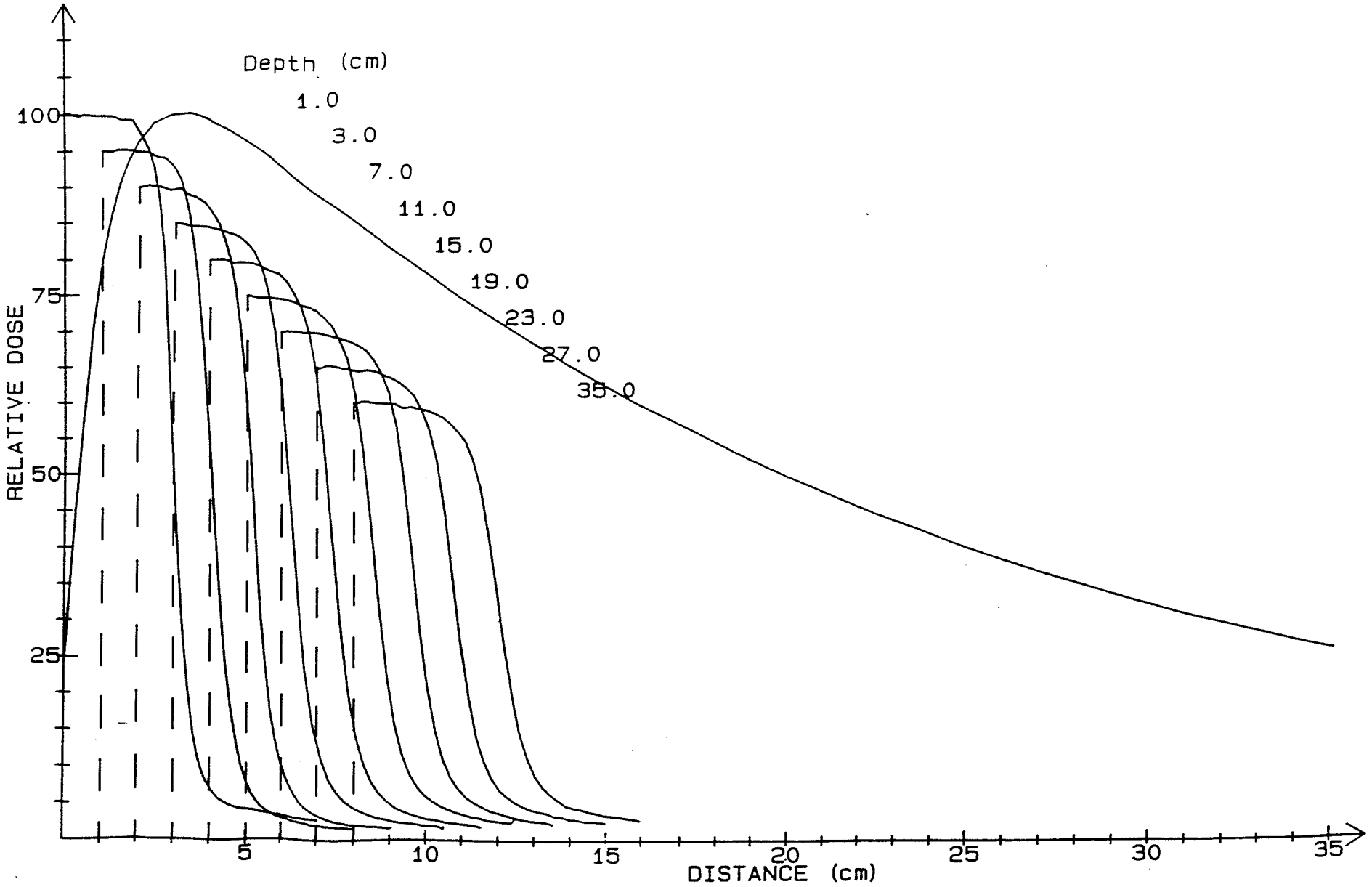
4 MV Bone Inhomogeneity Test Case plot 42a

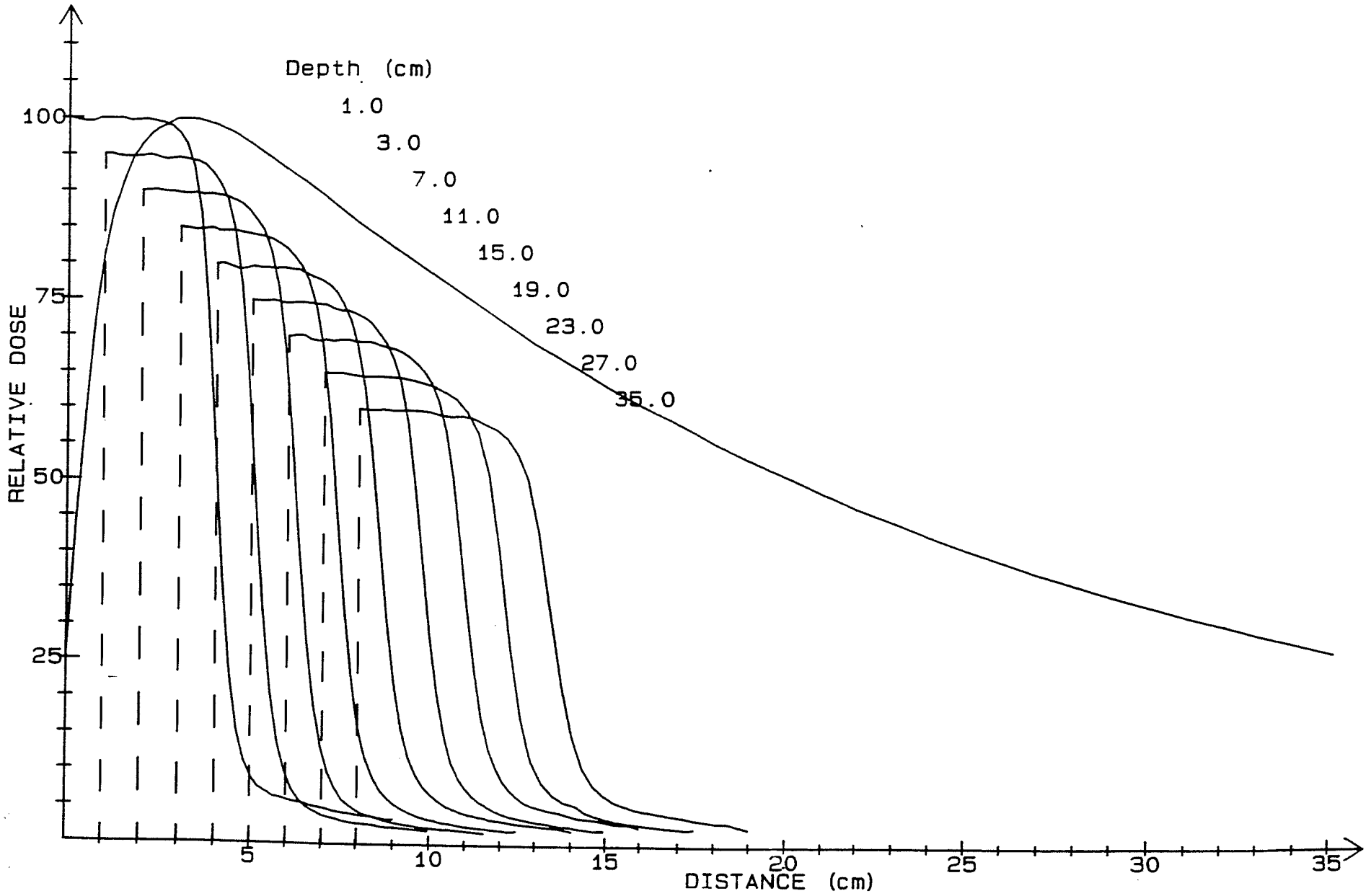


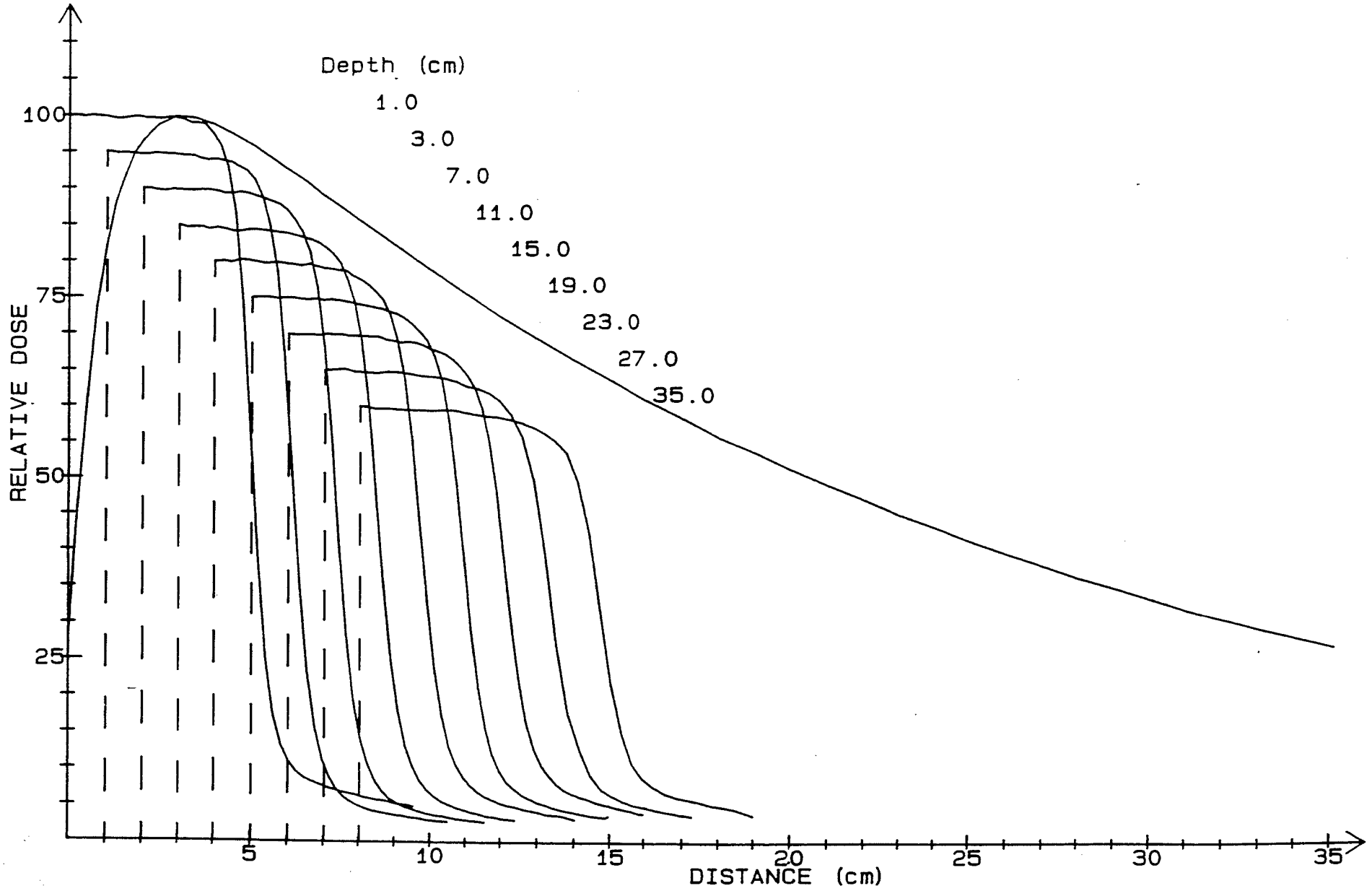

Depth (cm)
1.0
3.0
5.0
10.0
25.0
RELATIVE DOSE
100
75
50
25
-15
-10
-5
0
5
10
15
DISTANCE (cm)

18 MV 4 X 4 cm Open Field plot 44

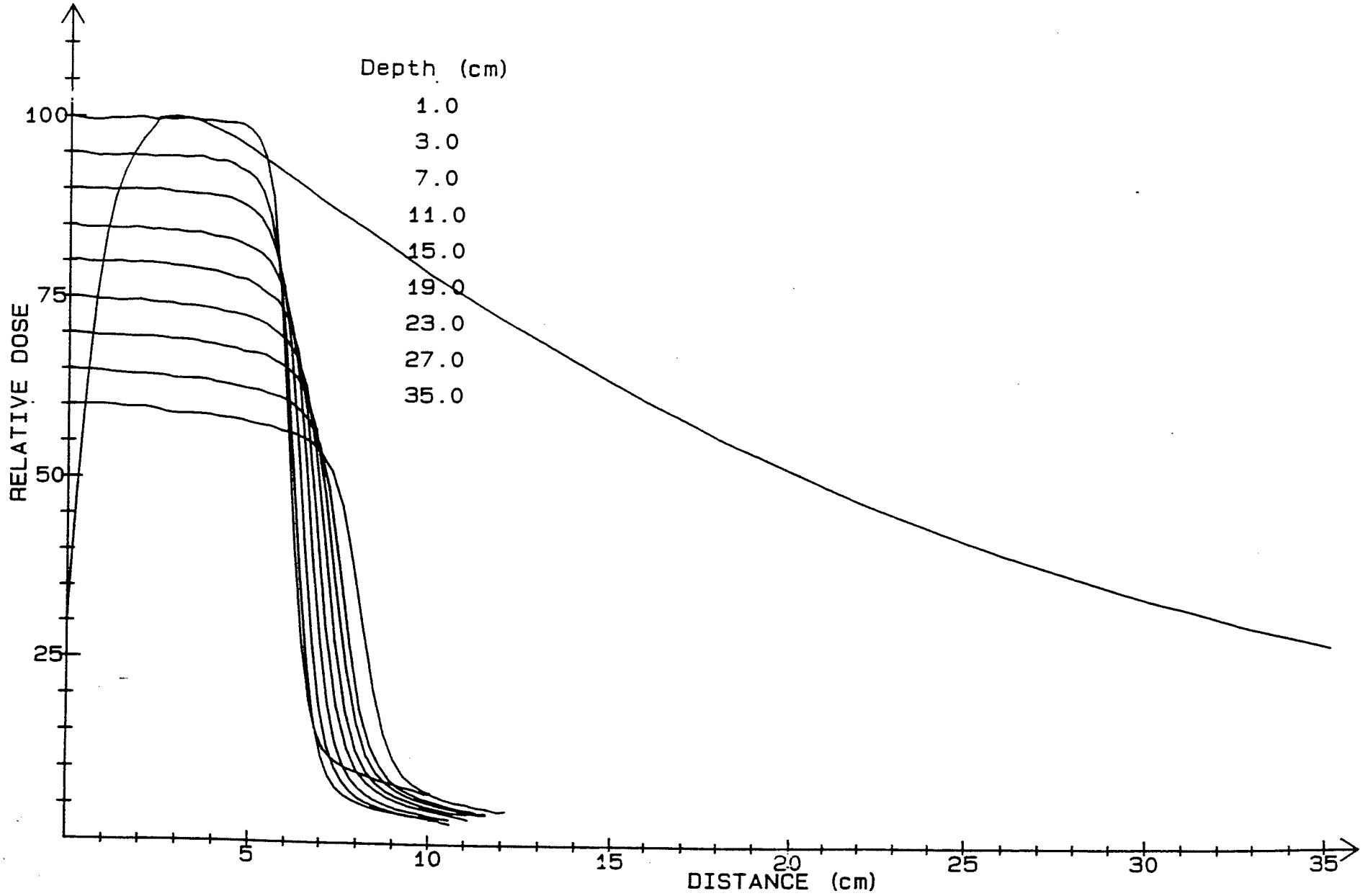



Depth (cm)
1.0
3.0
7.0
11.0
15.0
19.0
23.0
27.0
35.0
100
75
50
25
RELATIVE DOSE
5
10
15
20
25
30
35
DISTANCE (cm)

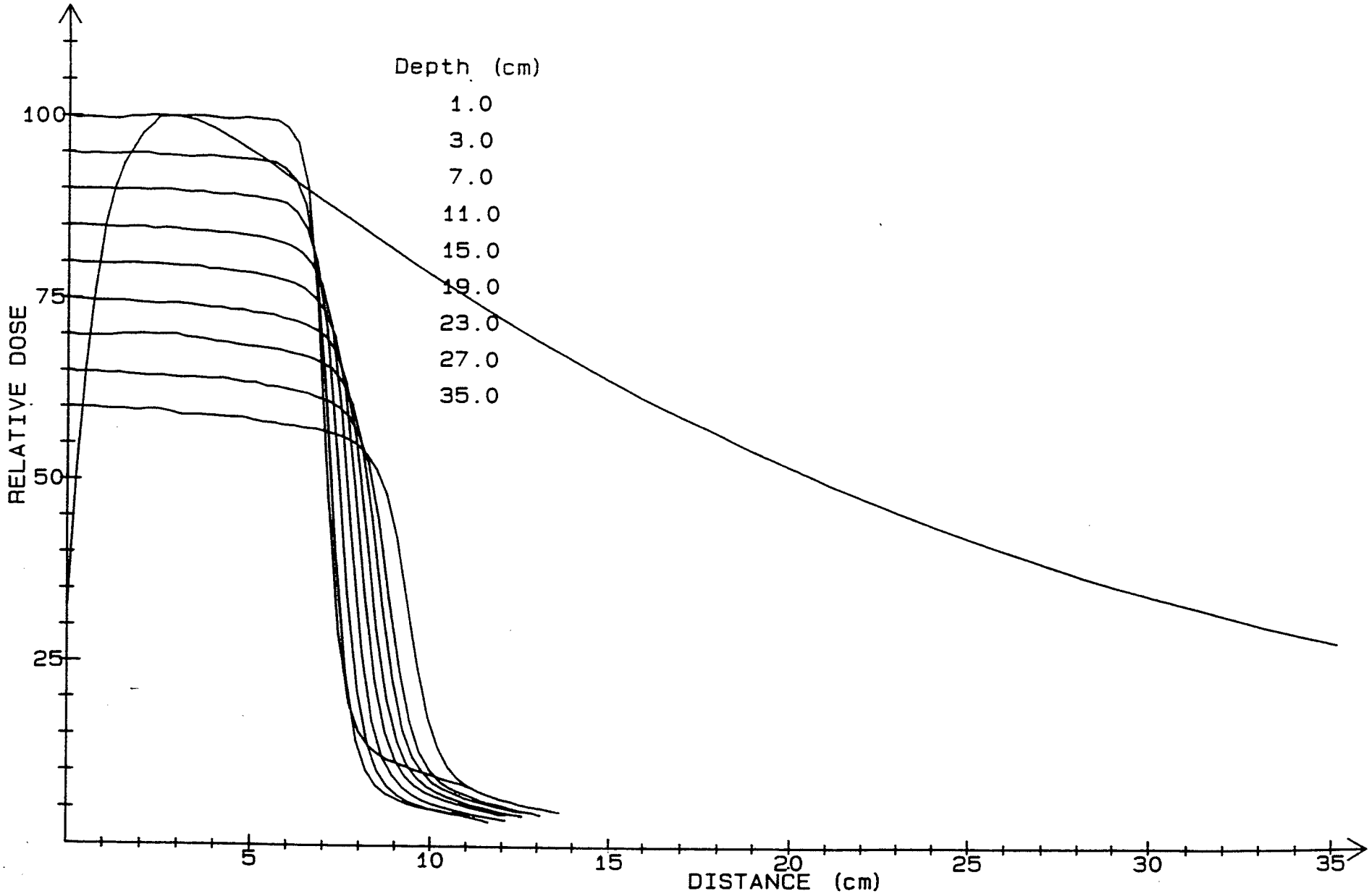

Depth (cm)
1.0
3.0
7.0
11.0
15.0
19.0
23.0
27.0
35.0
100
75
50
25
RELATIVE DOSE
5
10
15
20
25
30
35
DISTANCE (cm)


Depth (cm)
1.0
3.0
7.0
11.0
15.0
19.0
23.0
27.0
35.0
RELATIVE DOSE
100
75
50
25
5
10
15
20
25
30
35
DISTANCE (cm)

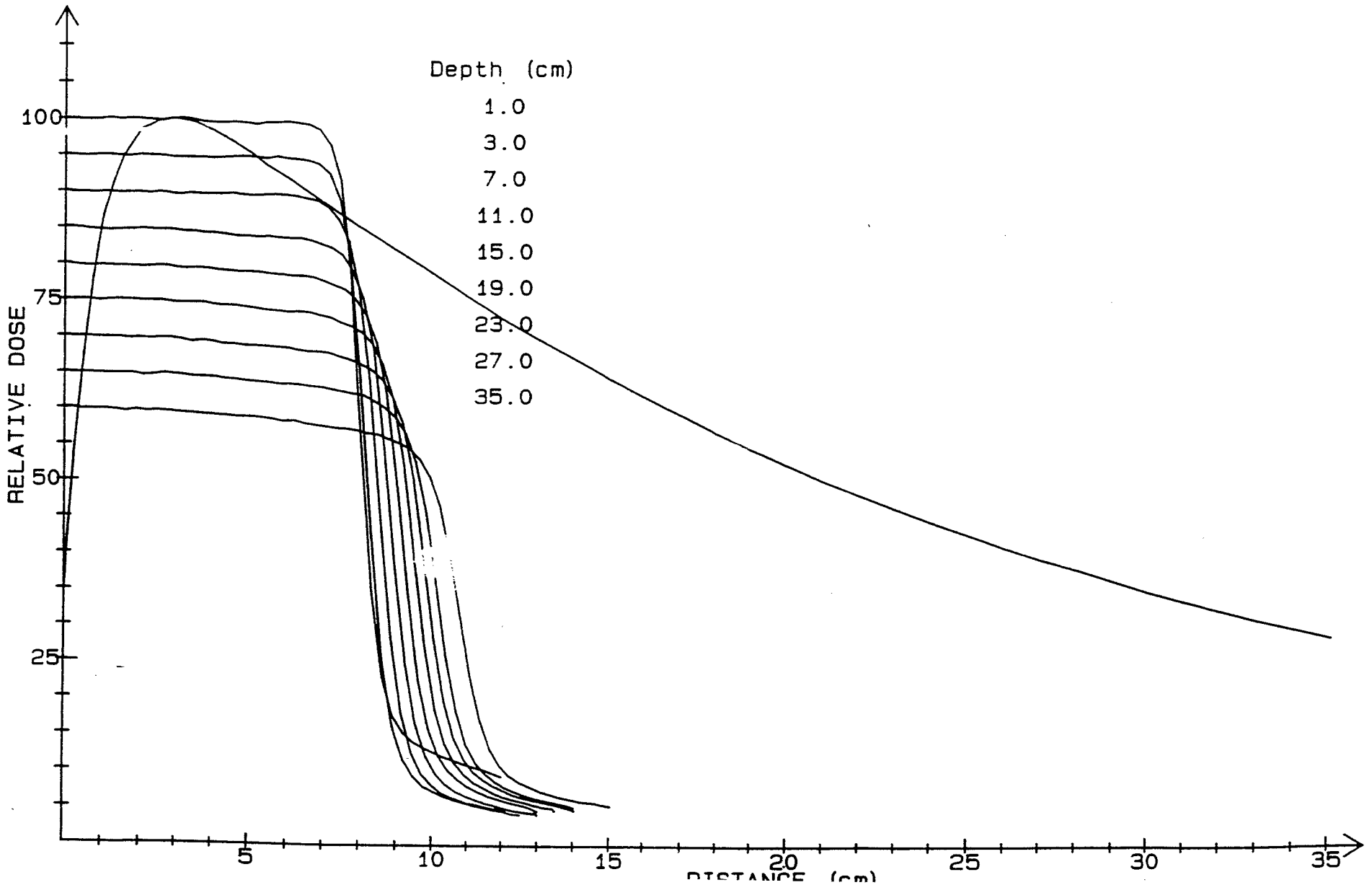
18 MV 12 X 12 cm Open Field plot 48



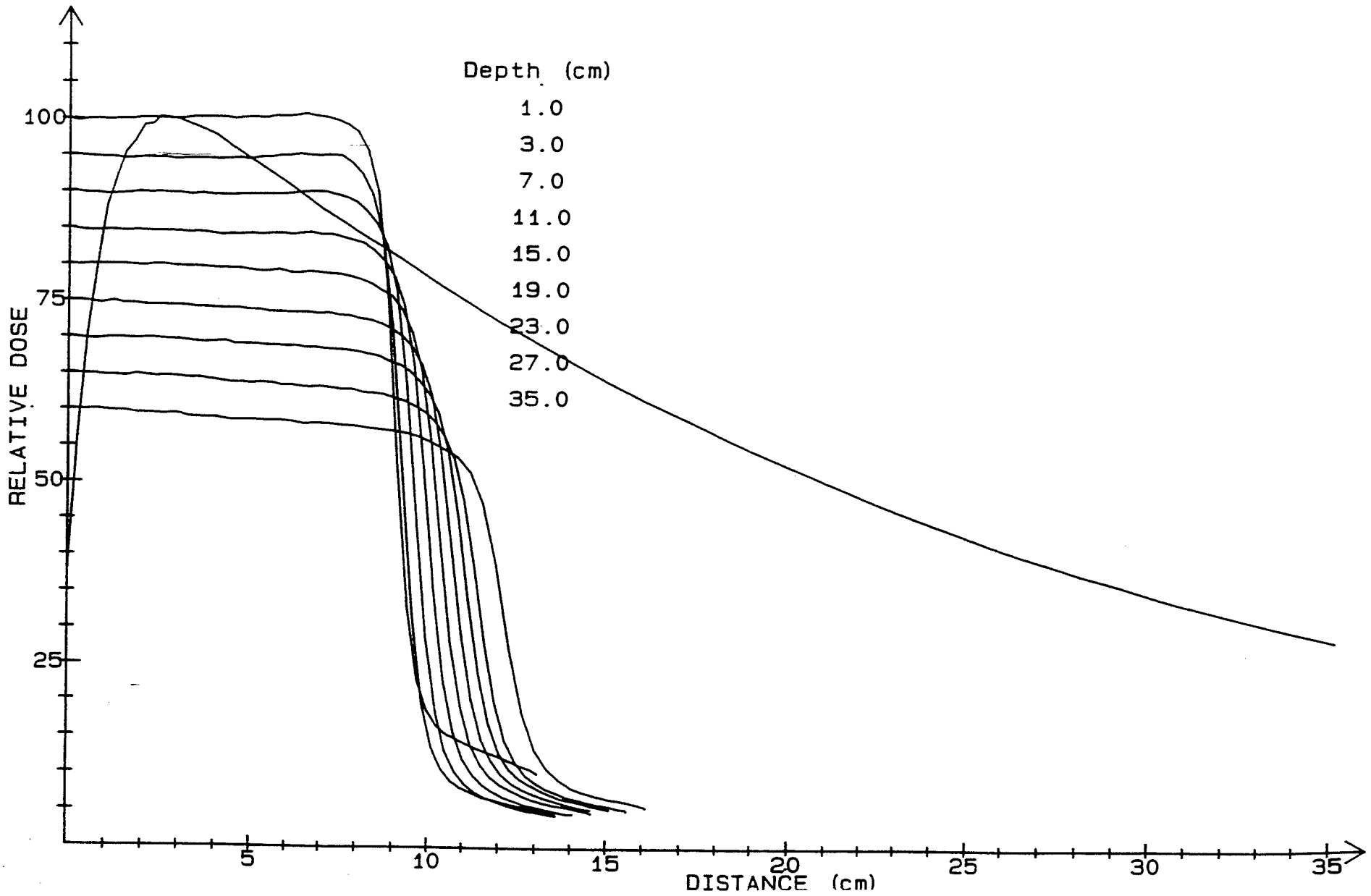
18 MV 14 X 14 cm Open Field plot 49



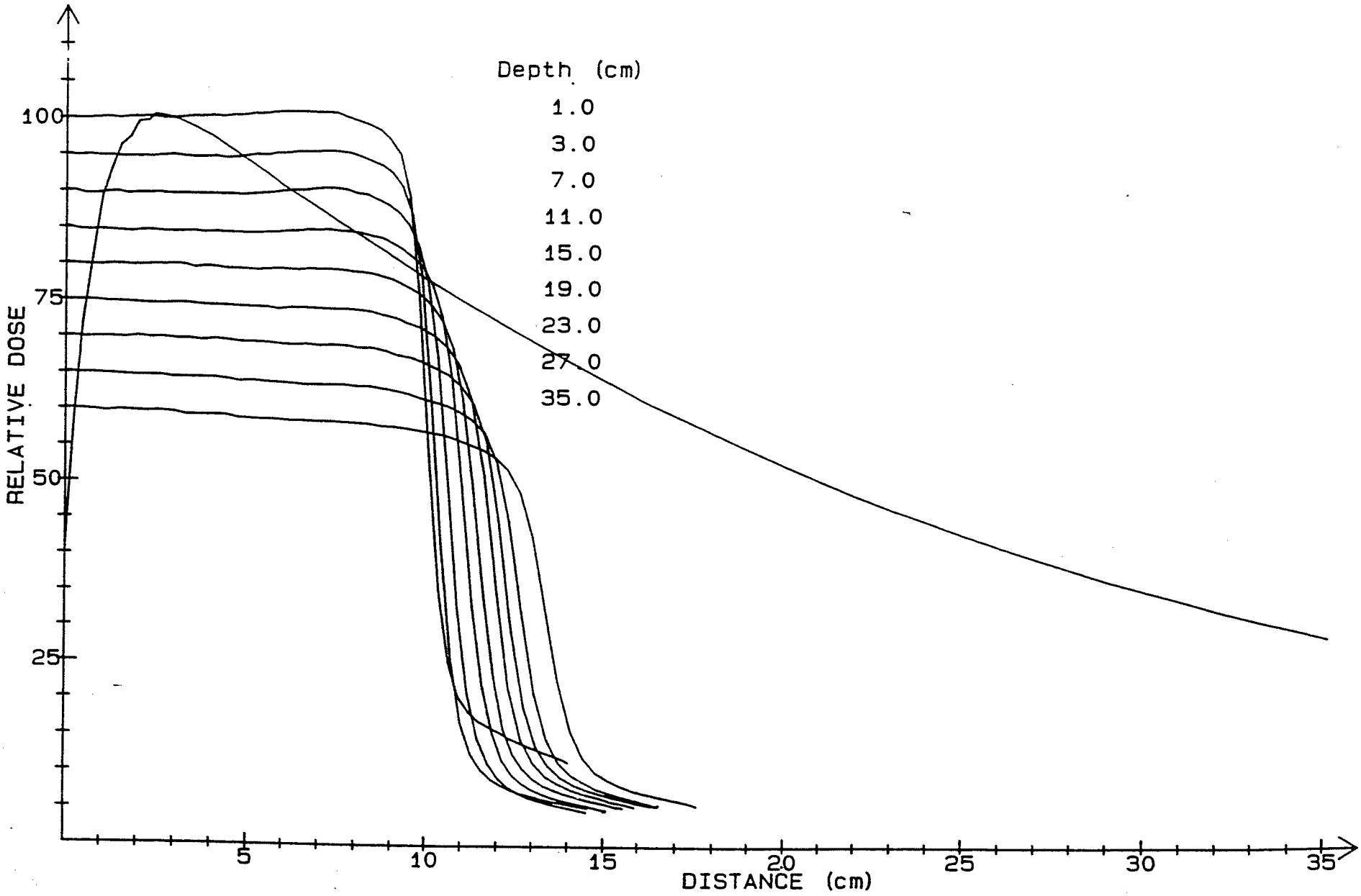
18 MV 16 X 16 cm Open Field plot 50



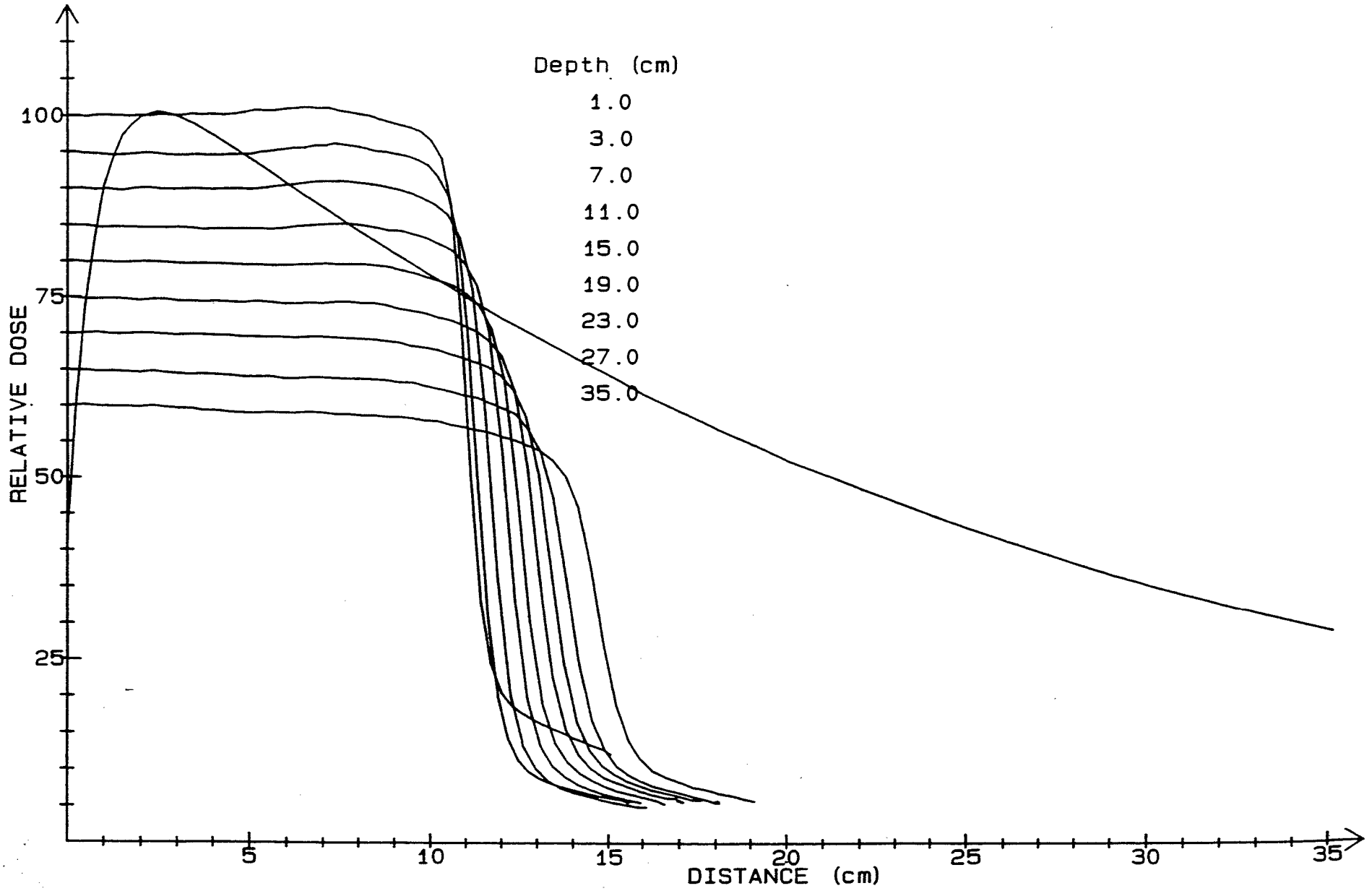
18 MV 18 X 18 cm Open Field plot 51.



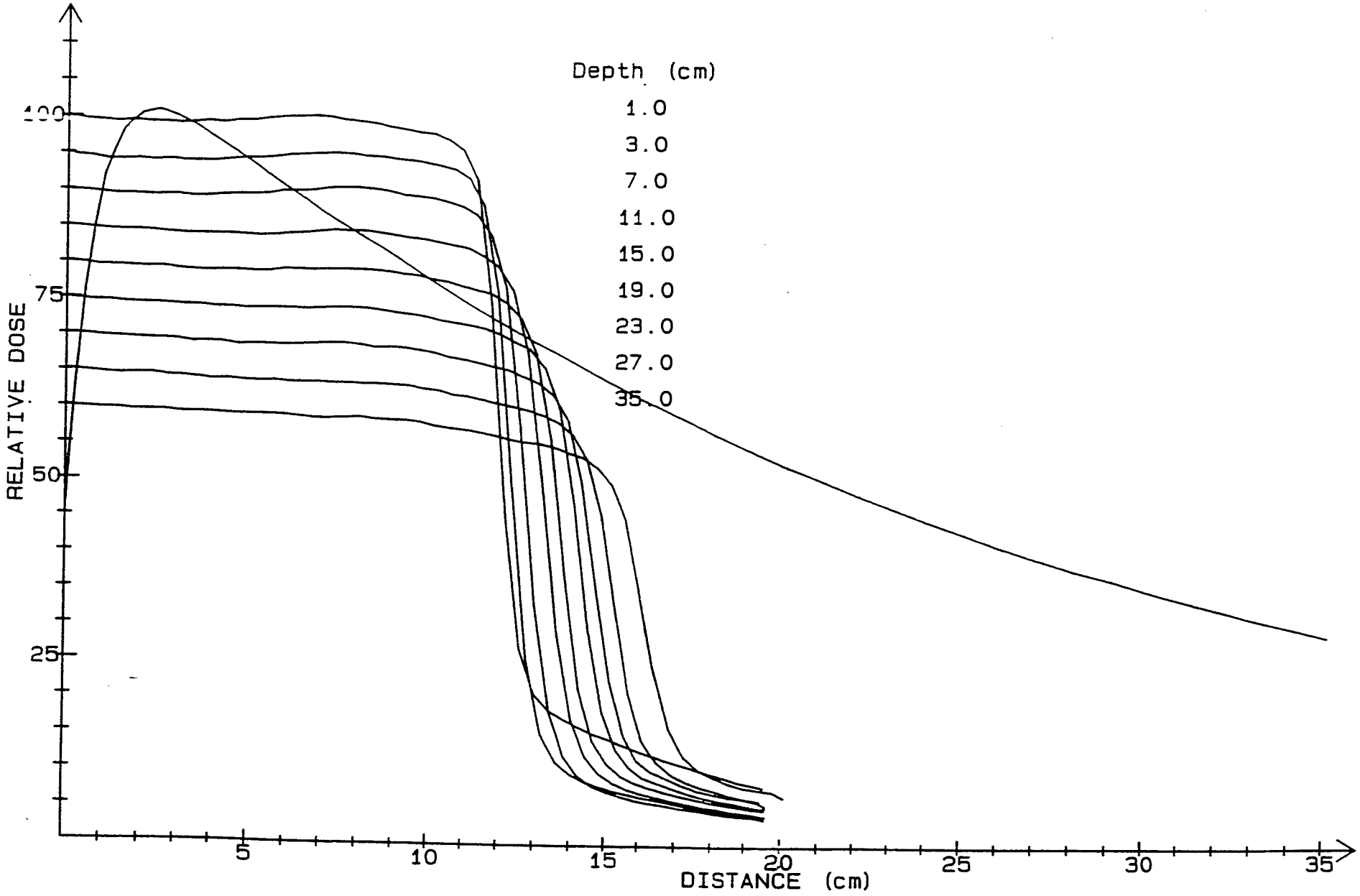
18 MV 20 X 20 cm Open Field plot 52



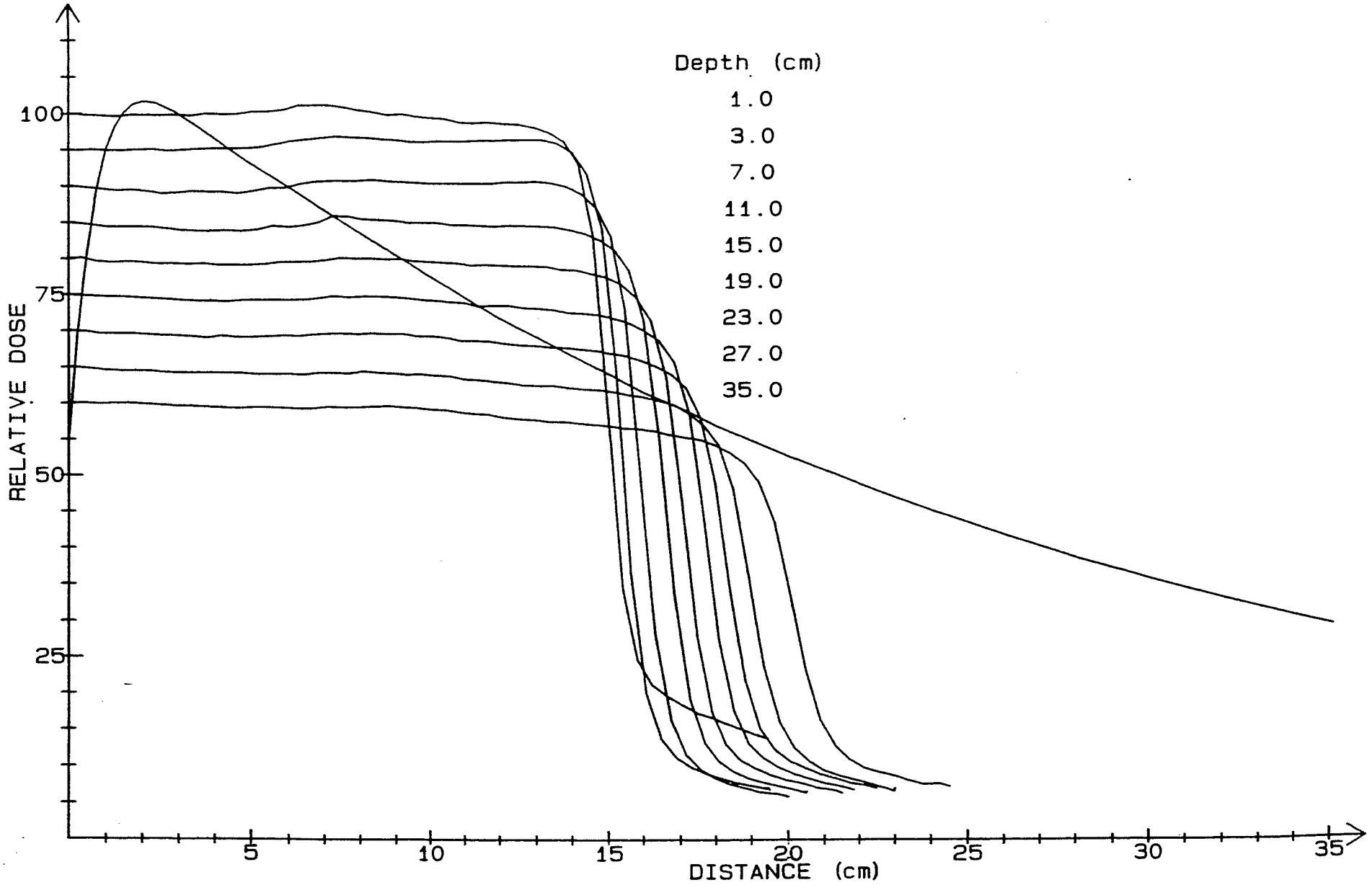
18 MV 22 X 22 cm Open Field plot 53



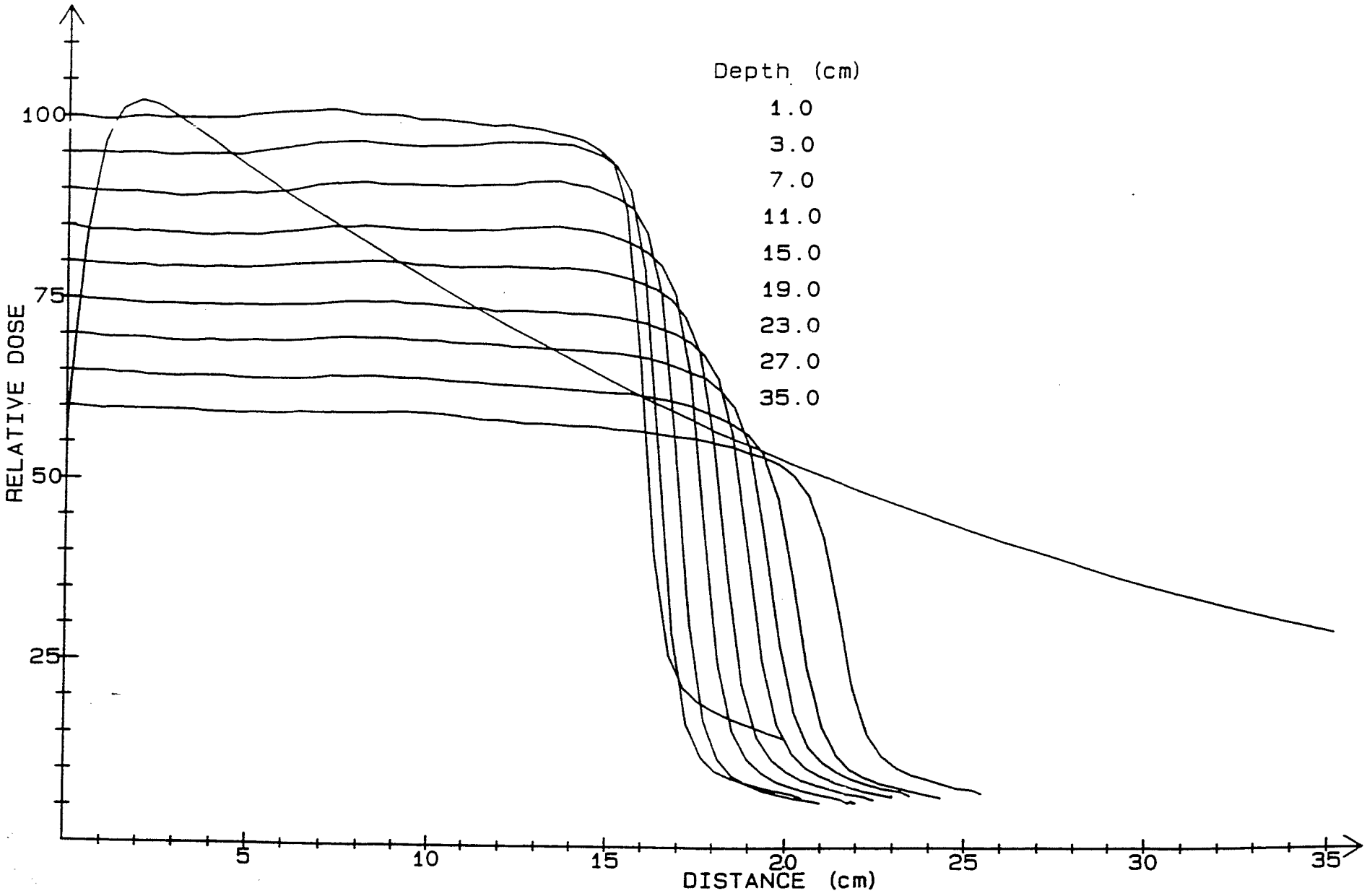
18 MV 24 X 24 cm Open Field plot 54



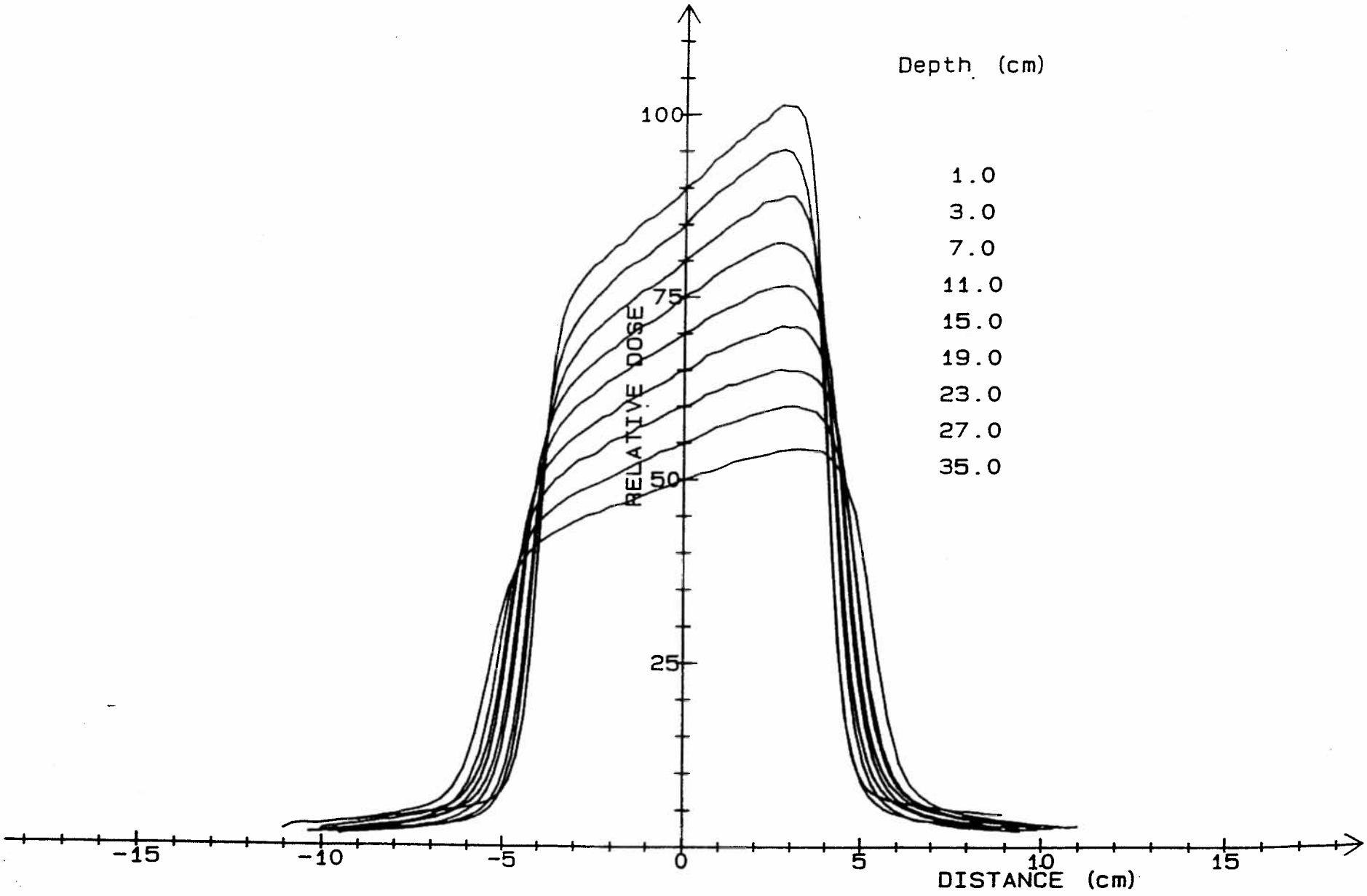
18 MV 30 X 30 cm Open Field plot 57



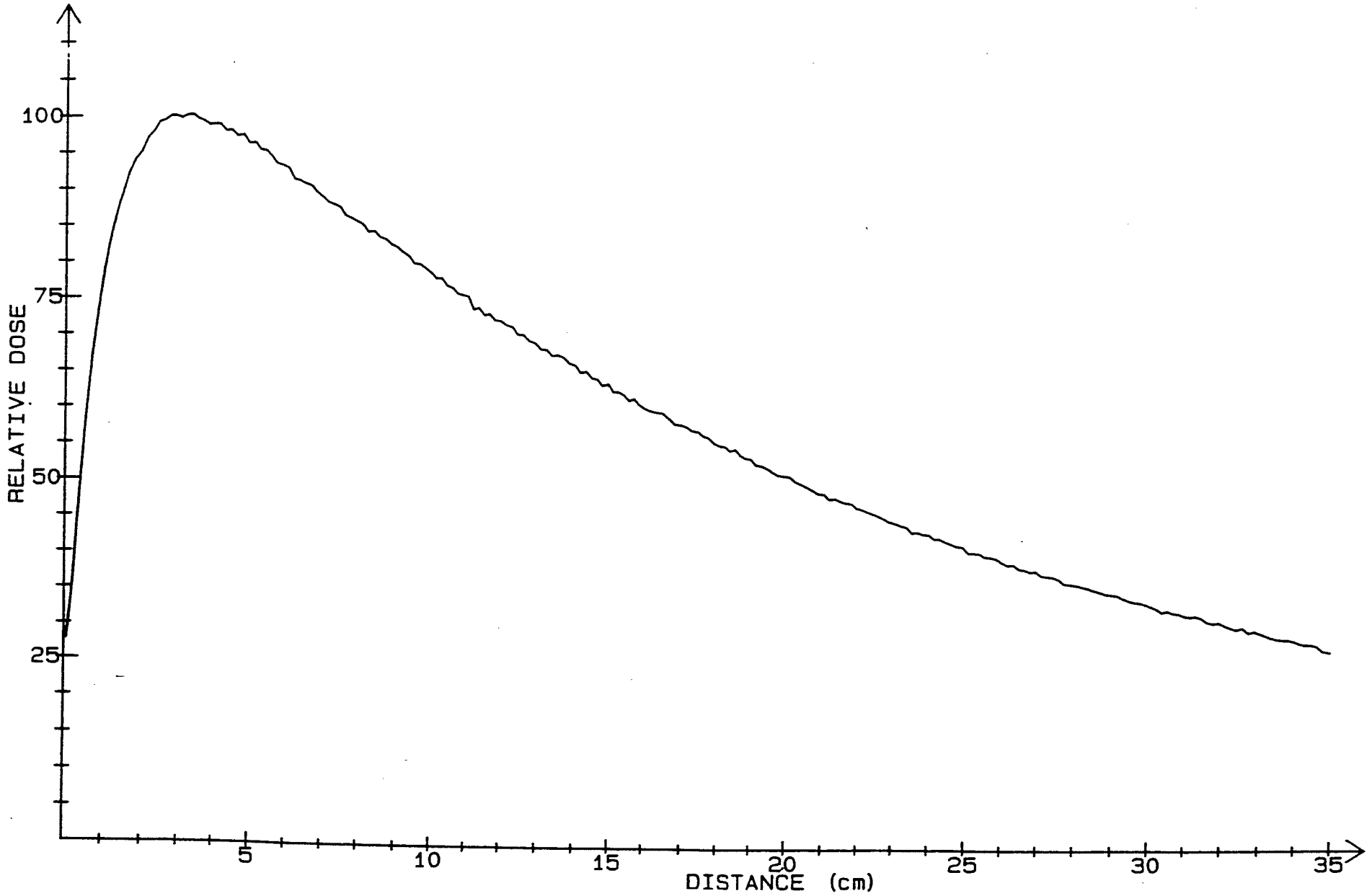
18 MV 32 X 32 cm Open Field plot 58

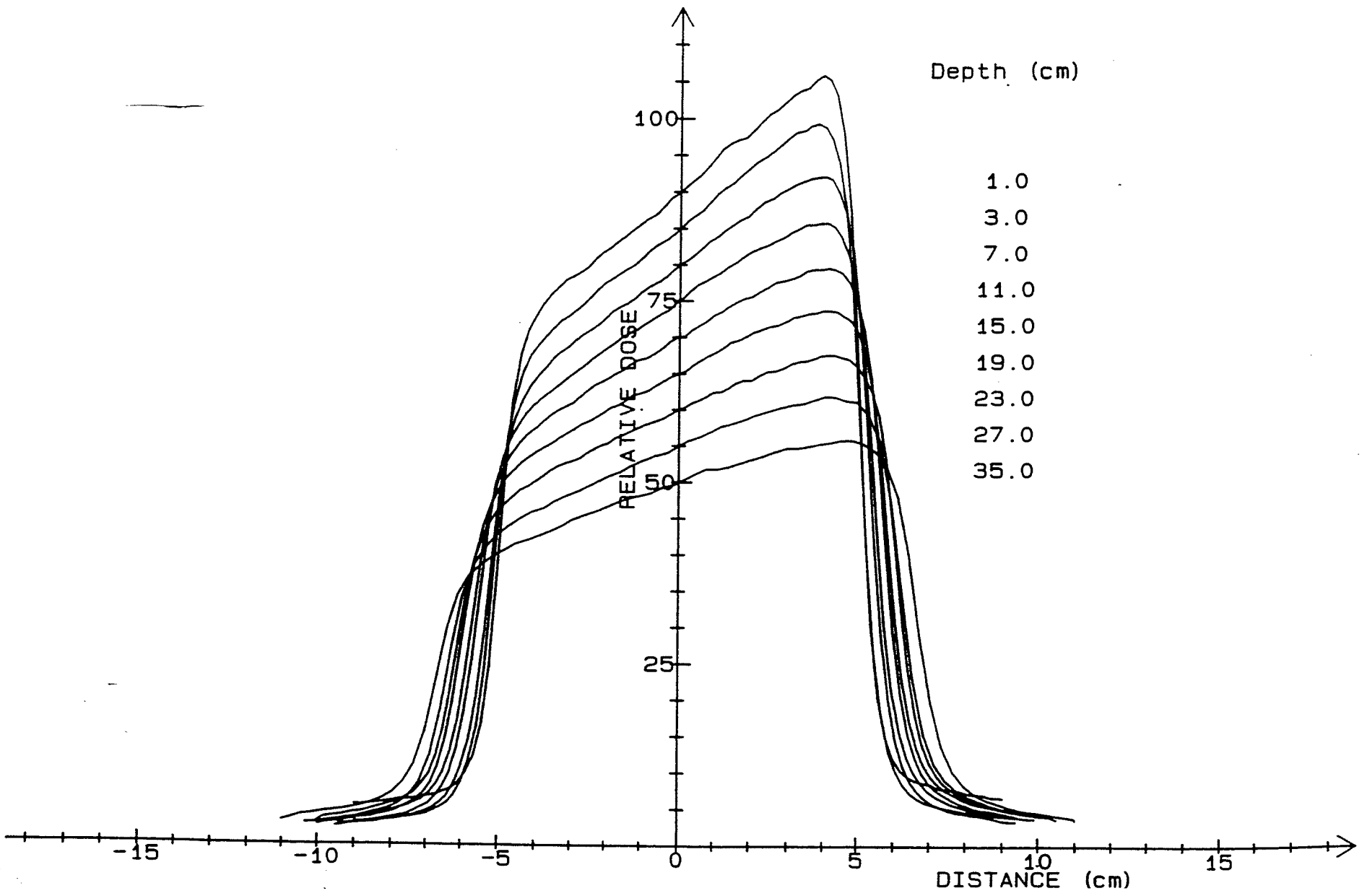


18 MV 8 X 8 cm Wedge Field plot 59

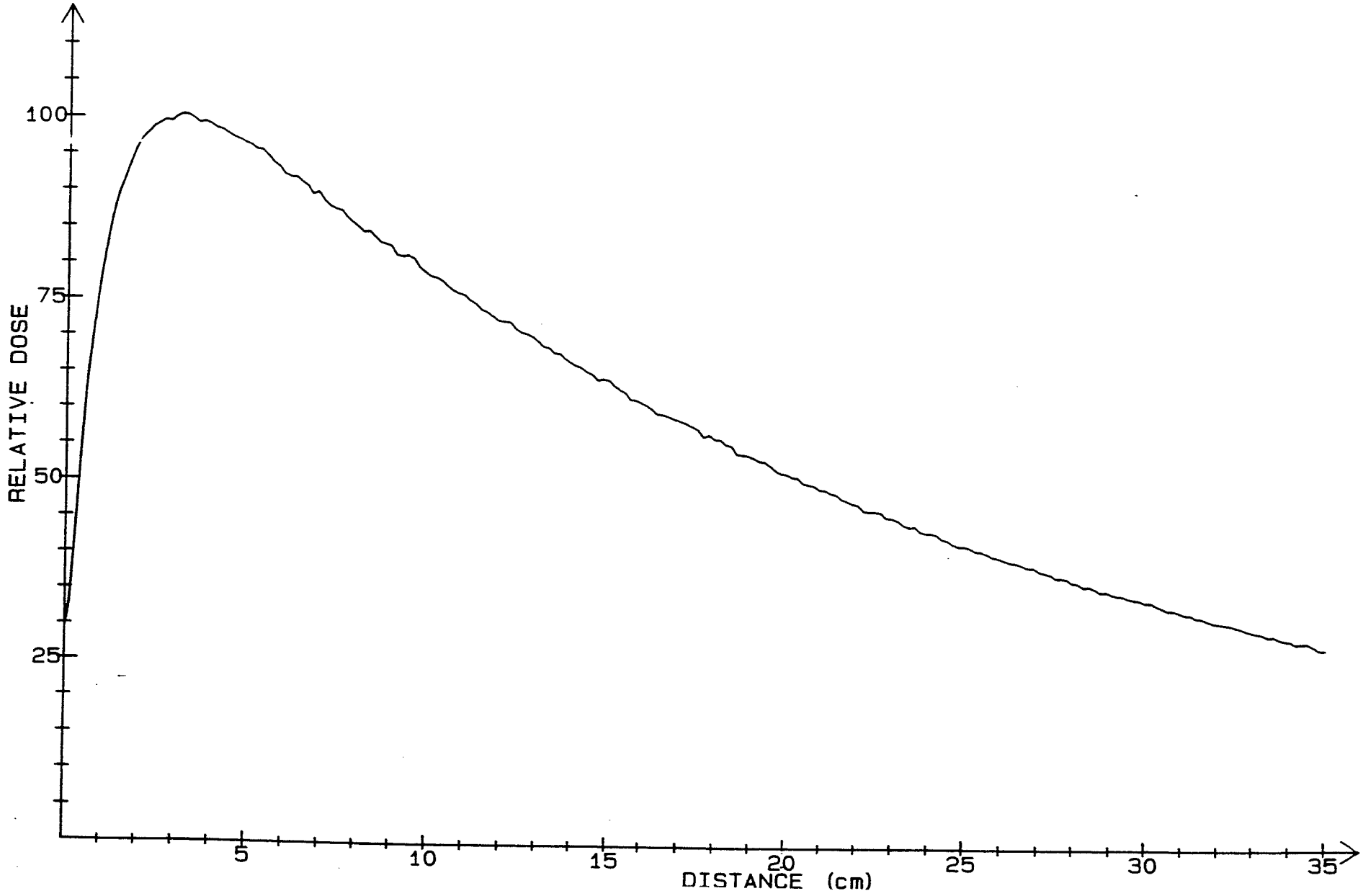


18 MV 8 X 8 cm Wedge Field plot 60

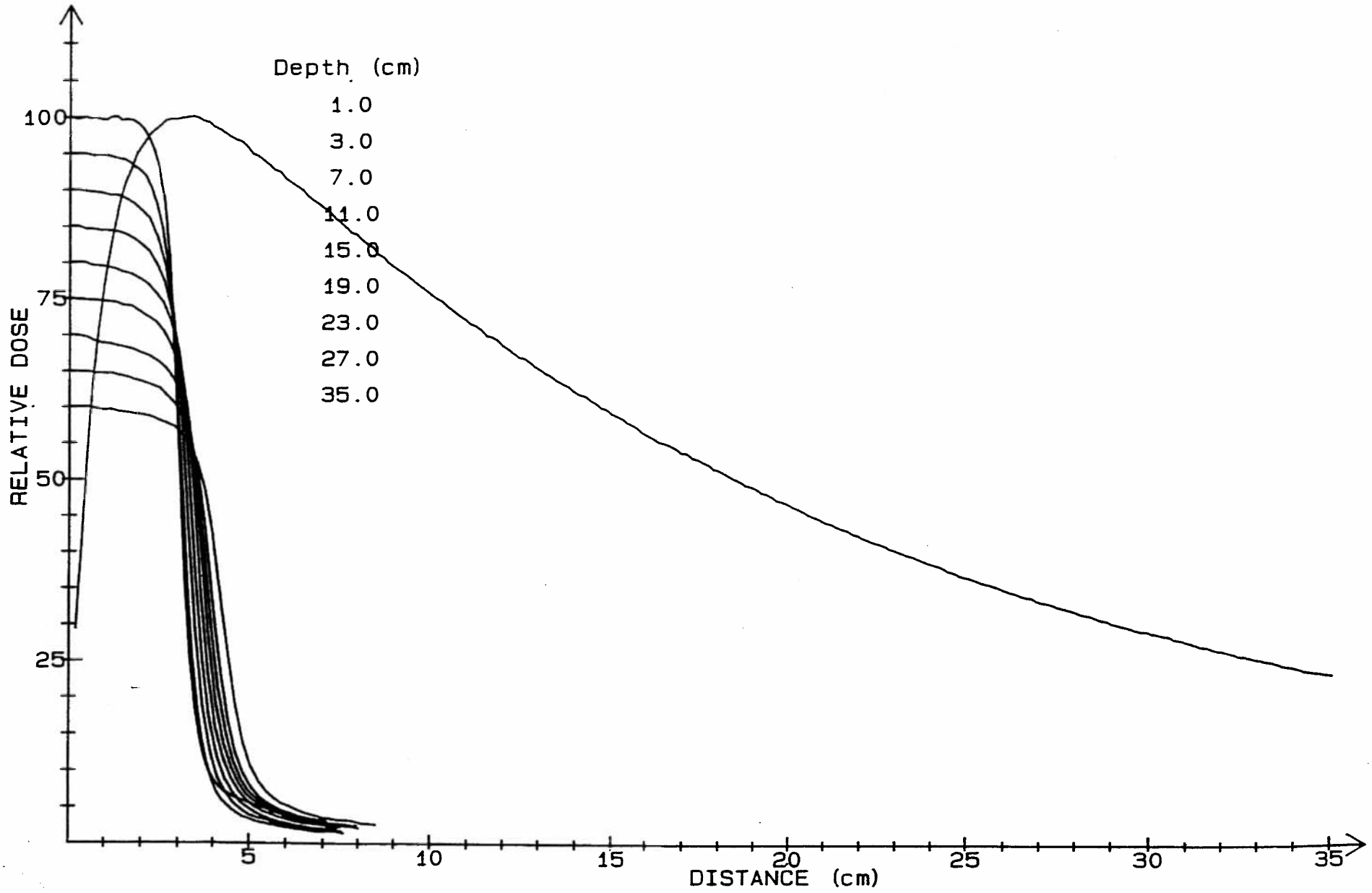



18 MV 10 X 10 cm Wedge Field
plot 61
Depth (cm)
1.0
3.0
7.0
11.0
15.0
19.0
23.0
27.0
35.0
RELATIVE DOSE
100
75
50
25
-15
-10
-5
0
5
10
15
DISTANCE (cm)

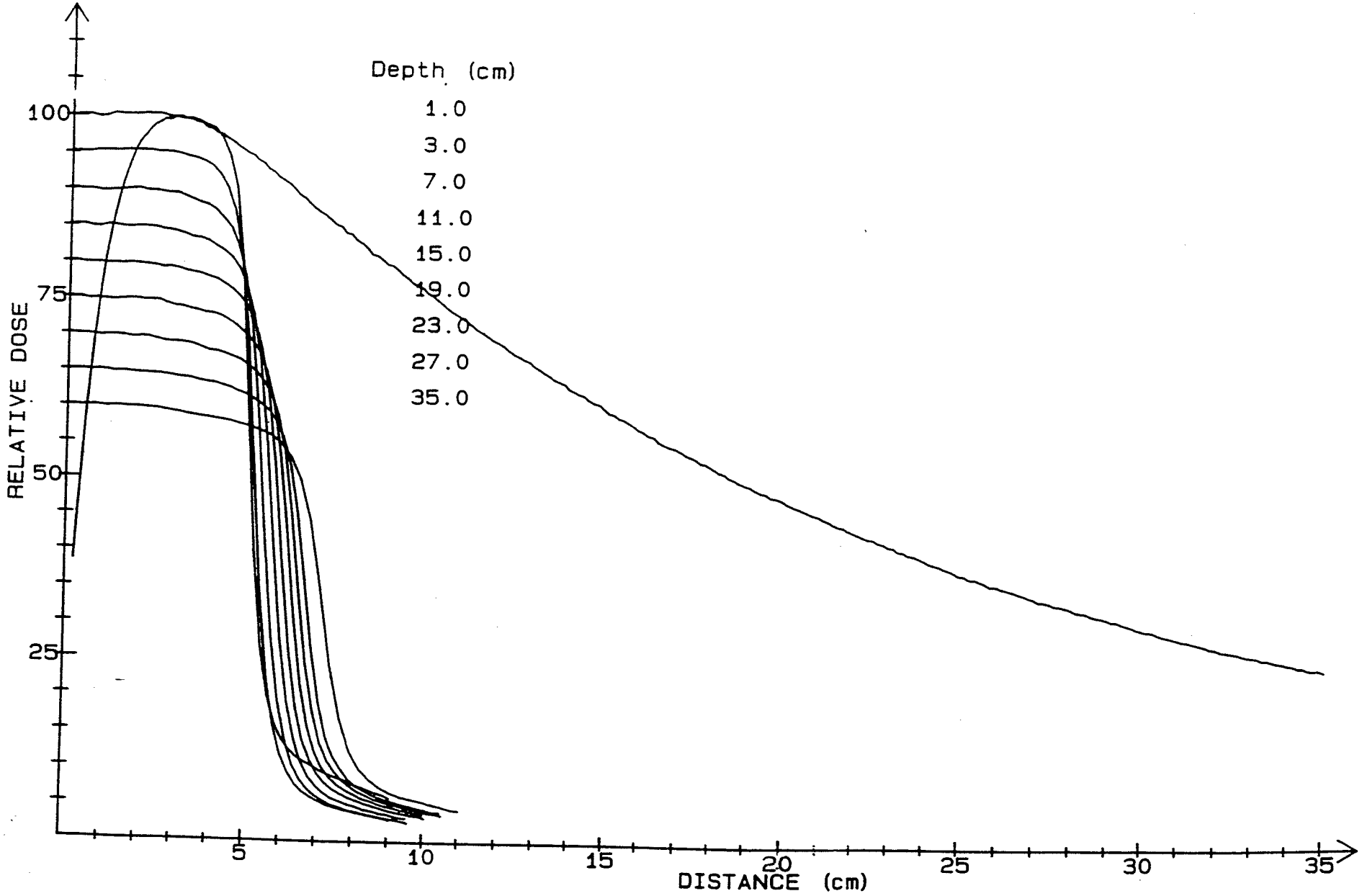
18 MV 10 X 10 cm Wedge Field plot 62



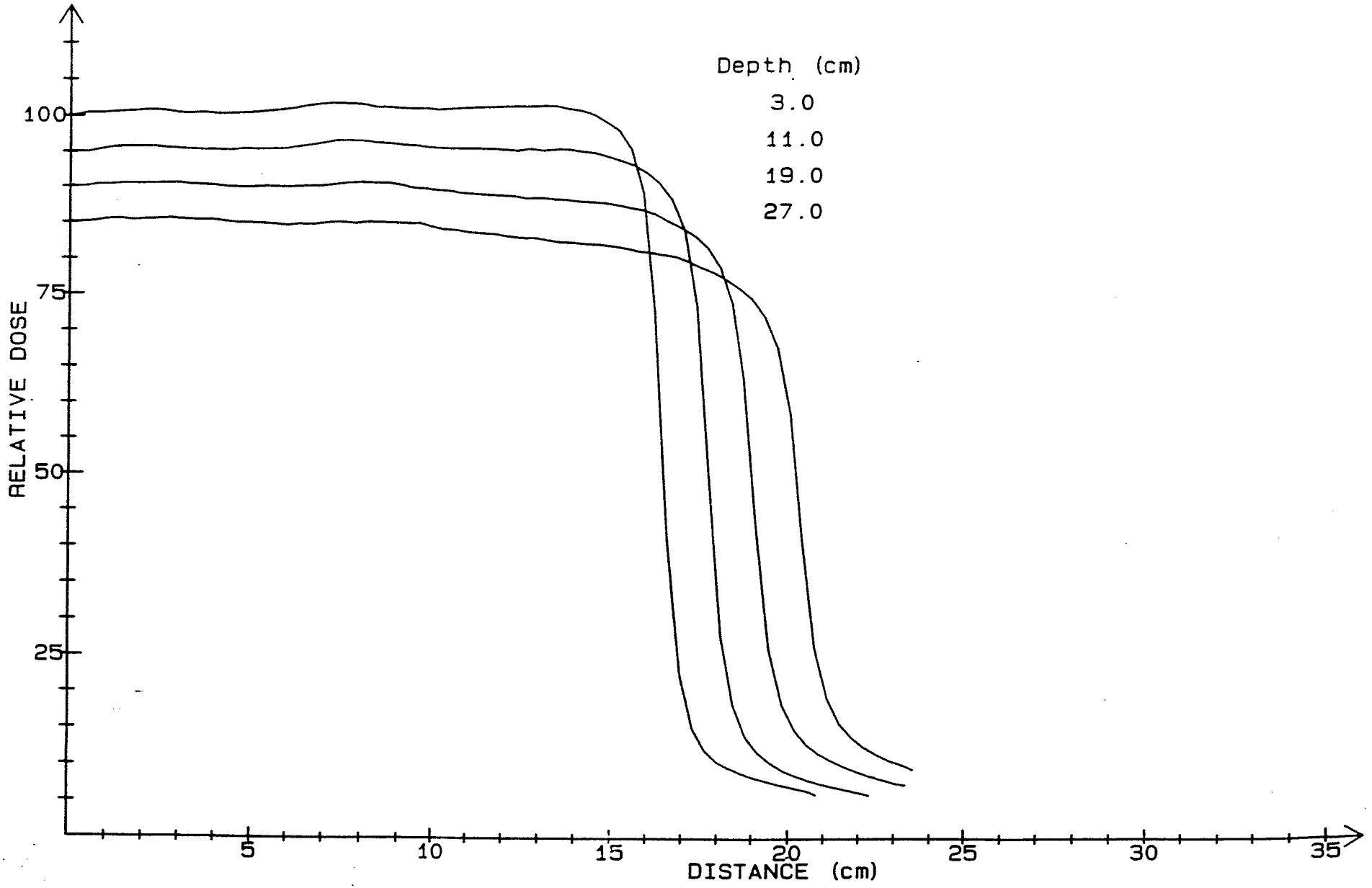
18 MV 6 X 6 cm Field 80 cm SSD plot 63



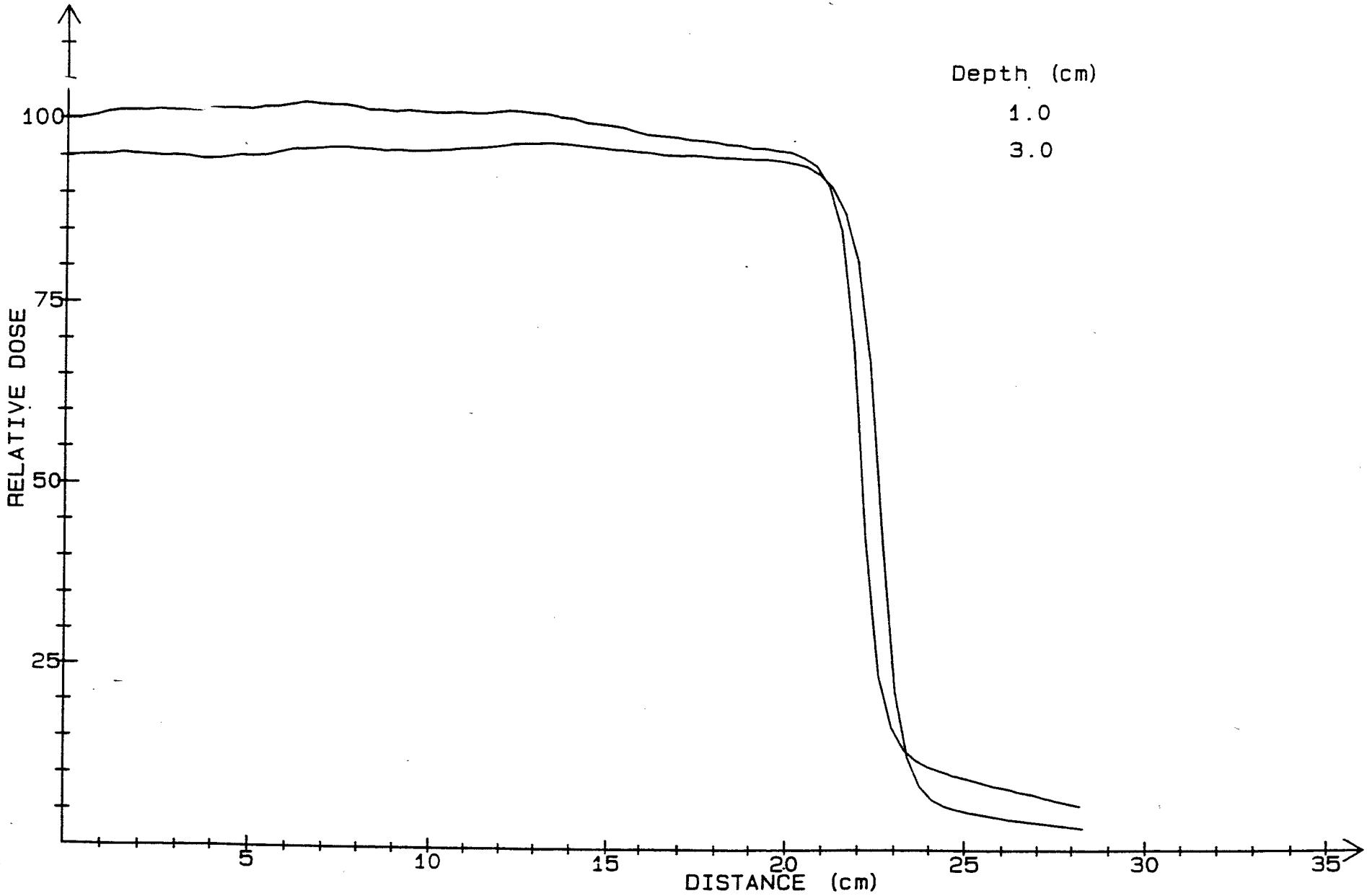
18 MV 10 X 10 cm Field 80 cm SSD plot 64



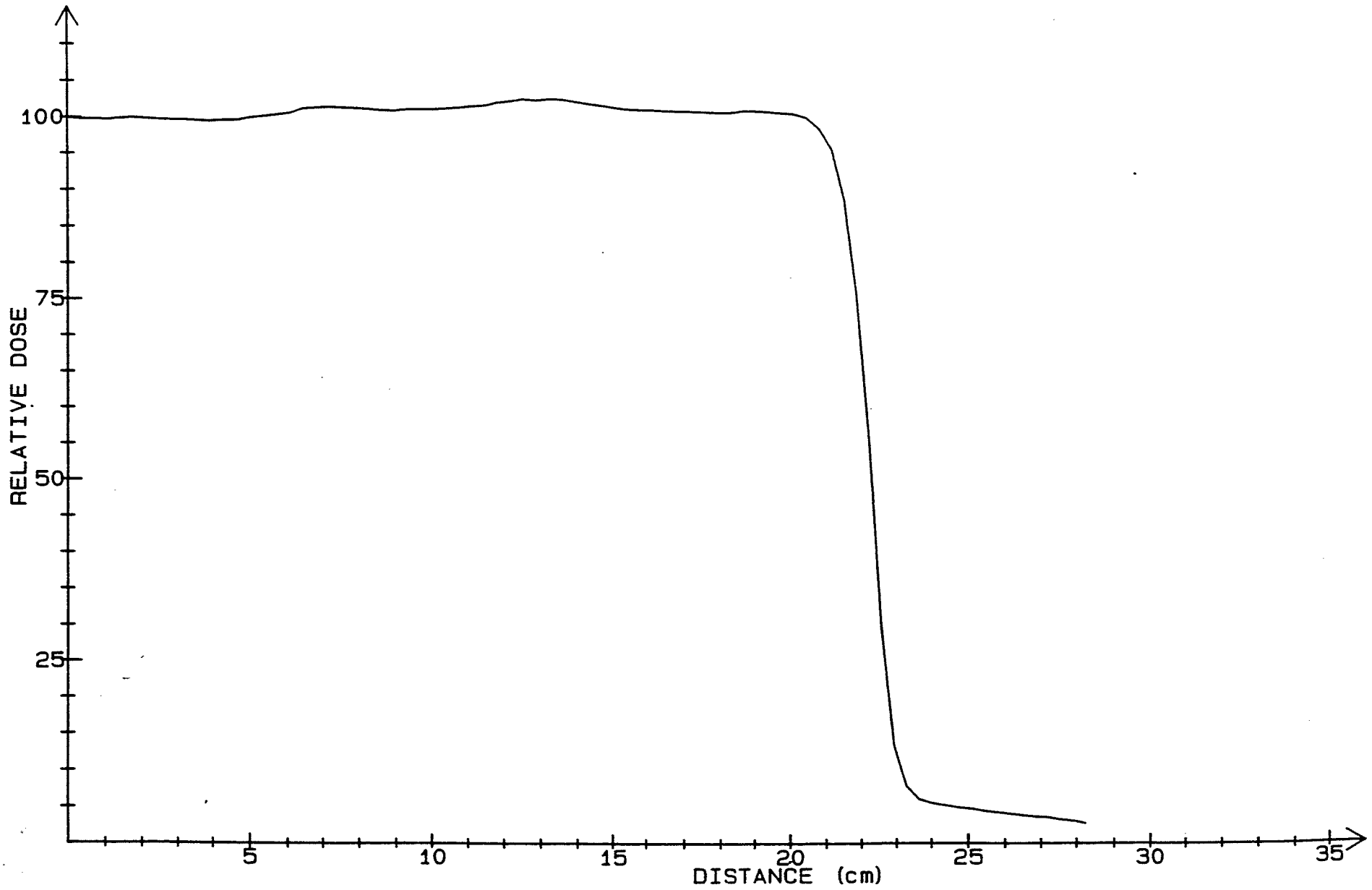
18 MV 32 X 32 cm Field Gun-Target Direction plot 65



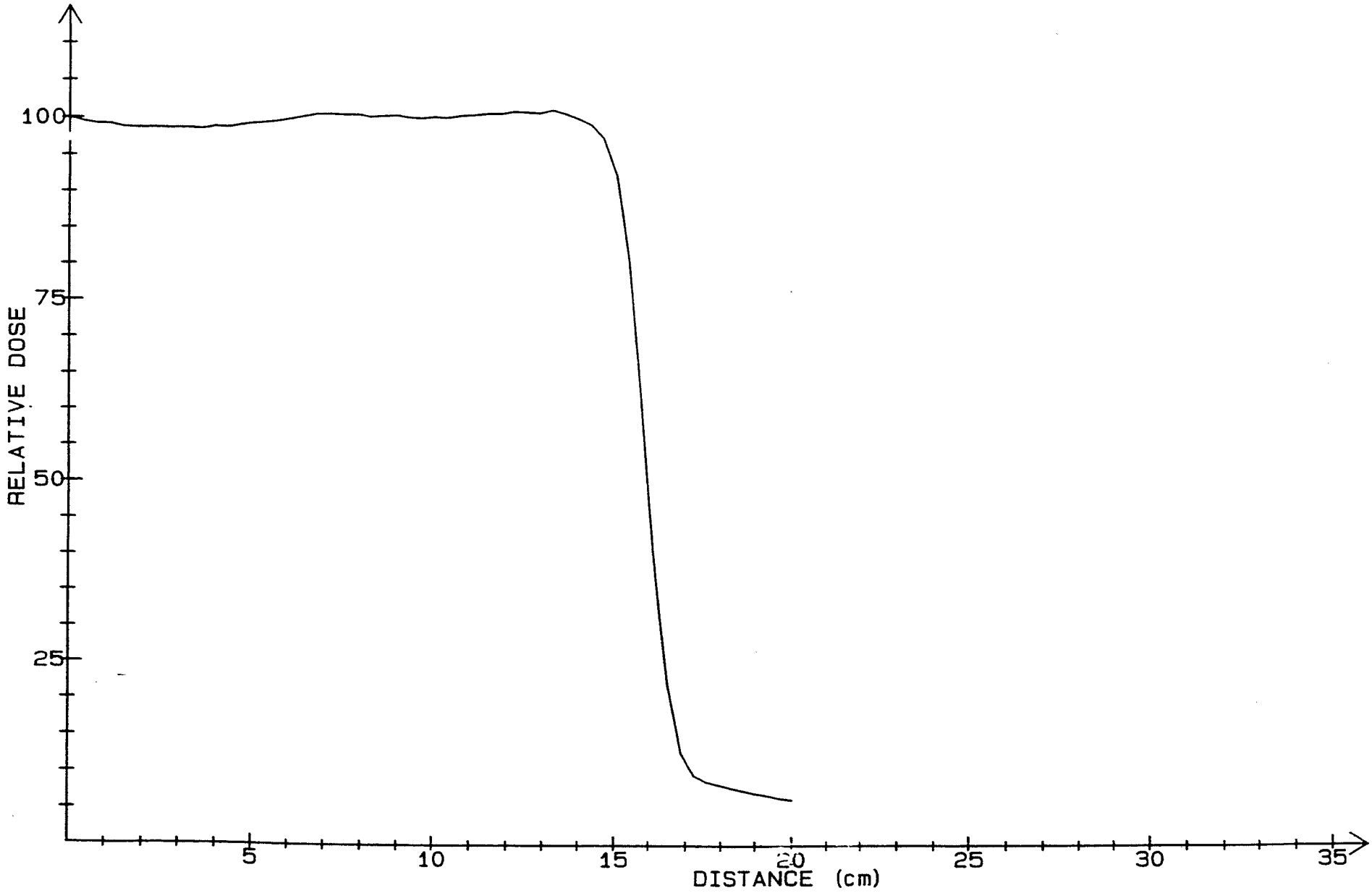
18 MV 32 X 32 cm Field Diagonal plot 66



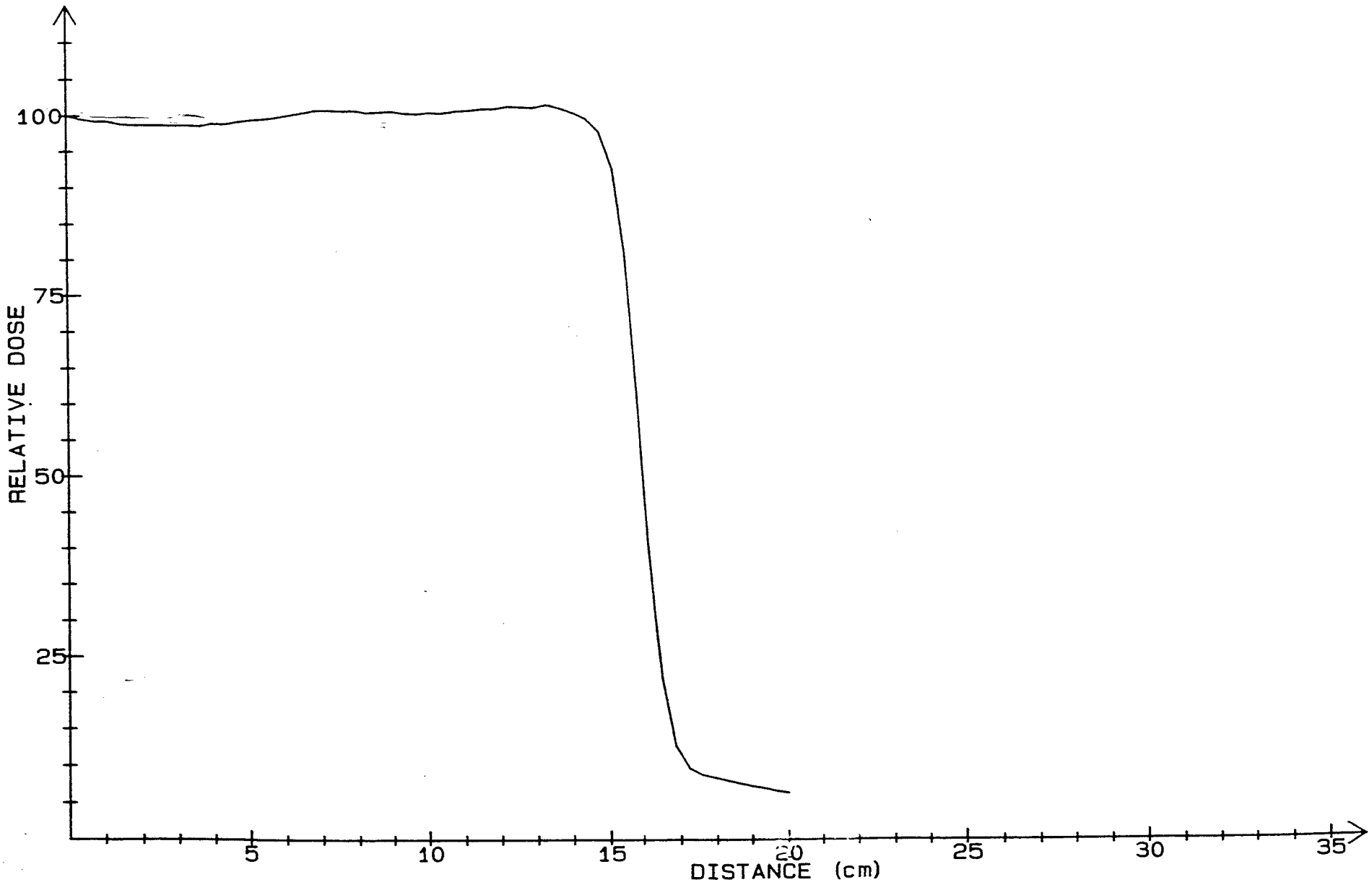
18 MV 32 X 32 cm Field Diagonal In Air plot 67



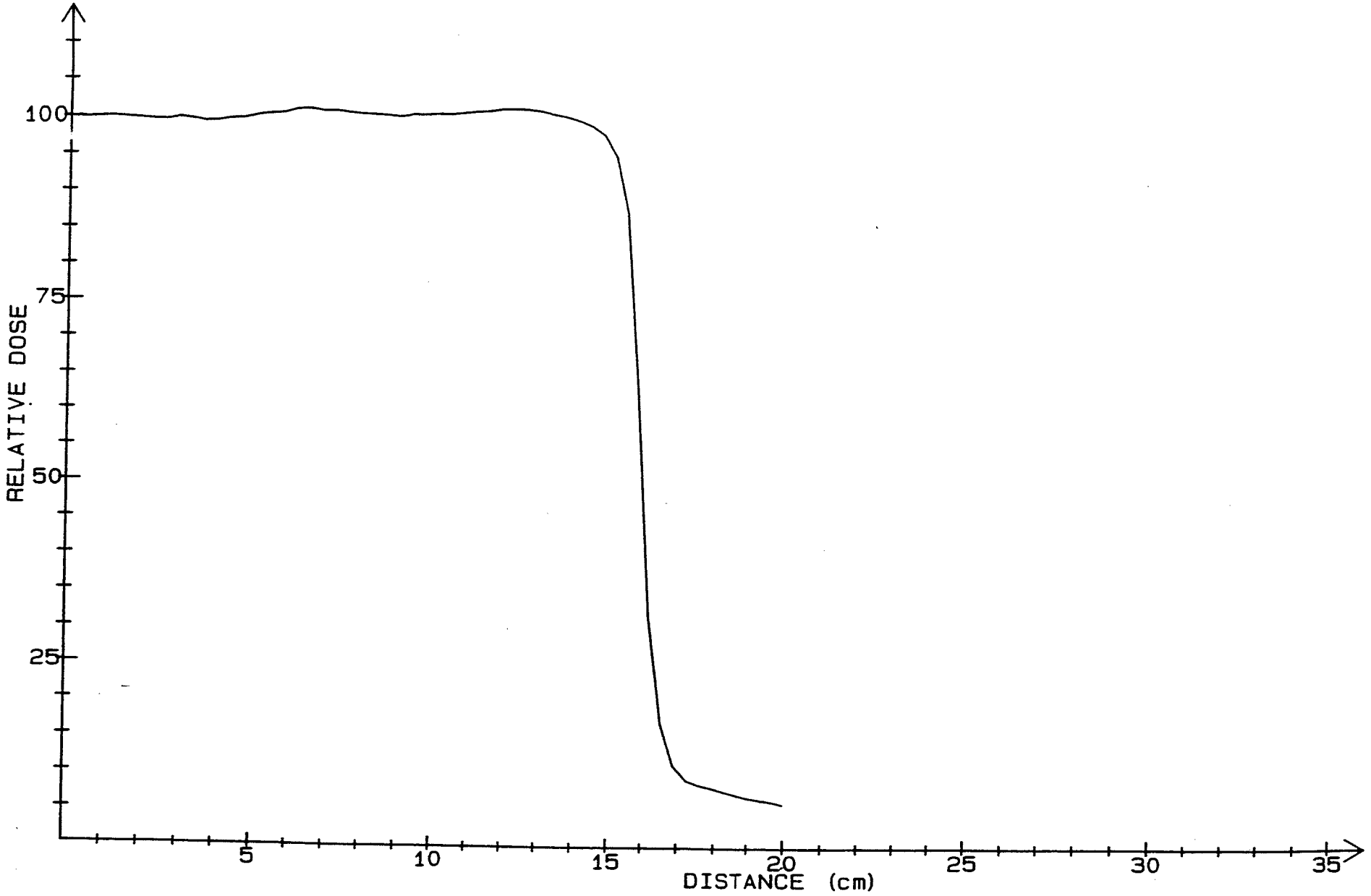
18 MV 32 X 32 cm Field In Air plot 68



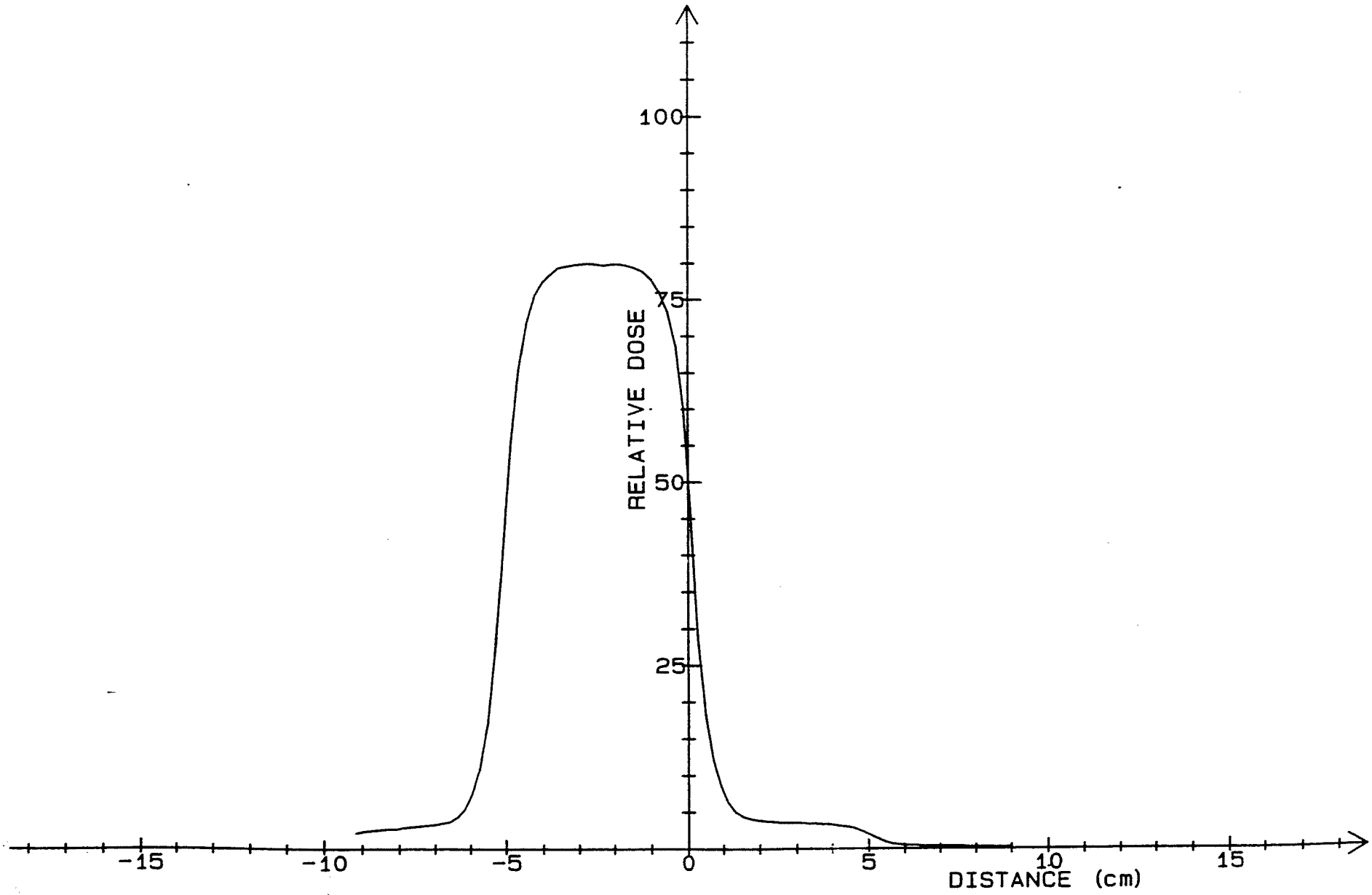
18 MV 32 X 32 cm Field In Air plot 68



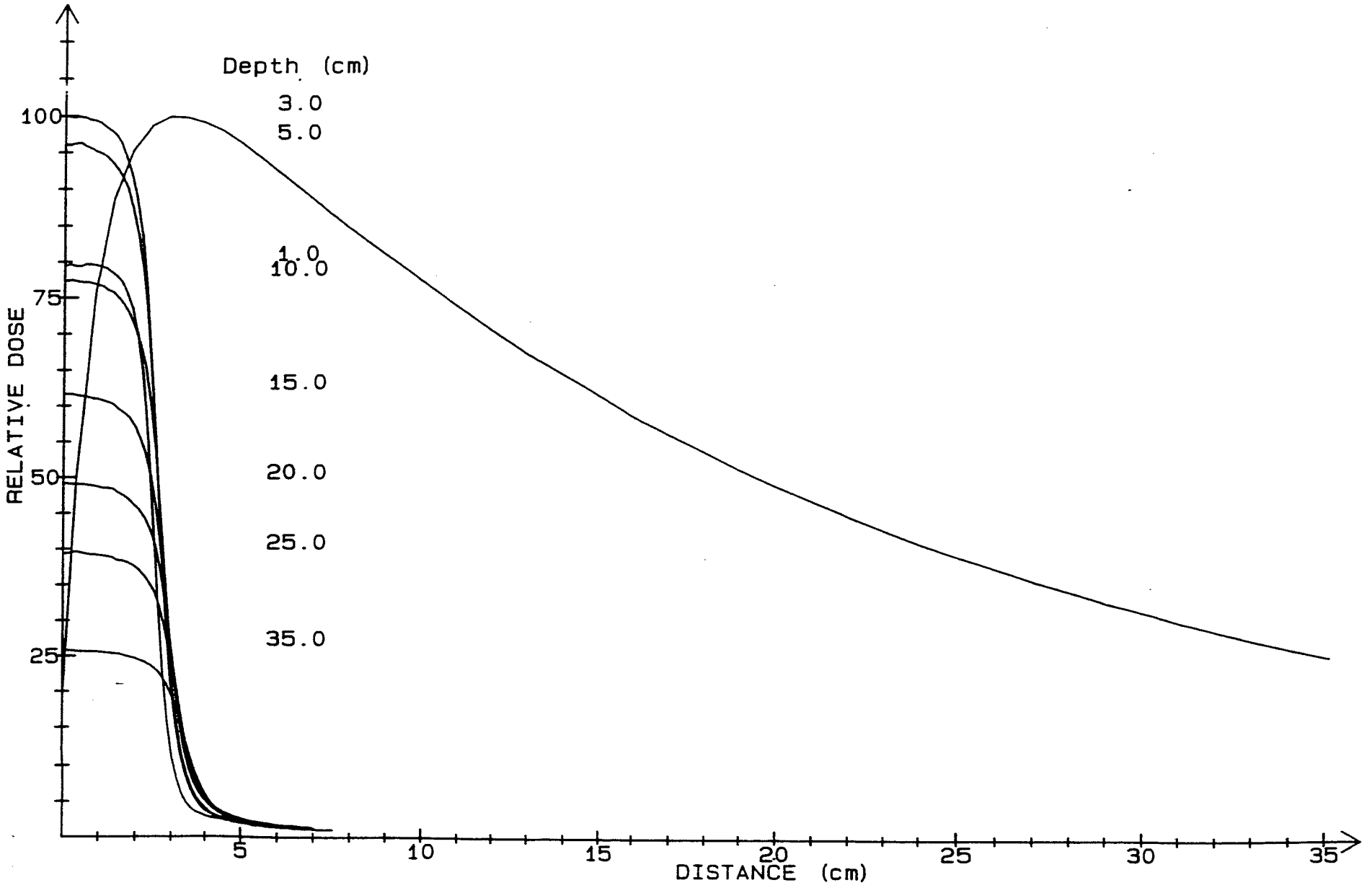
18 MV 32 X 32 cm Field In Air Gun-Target Direction plot 69



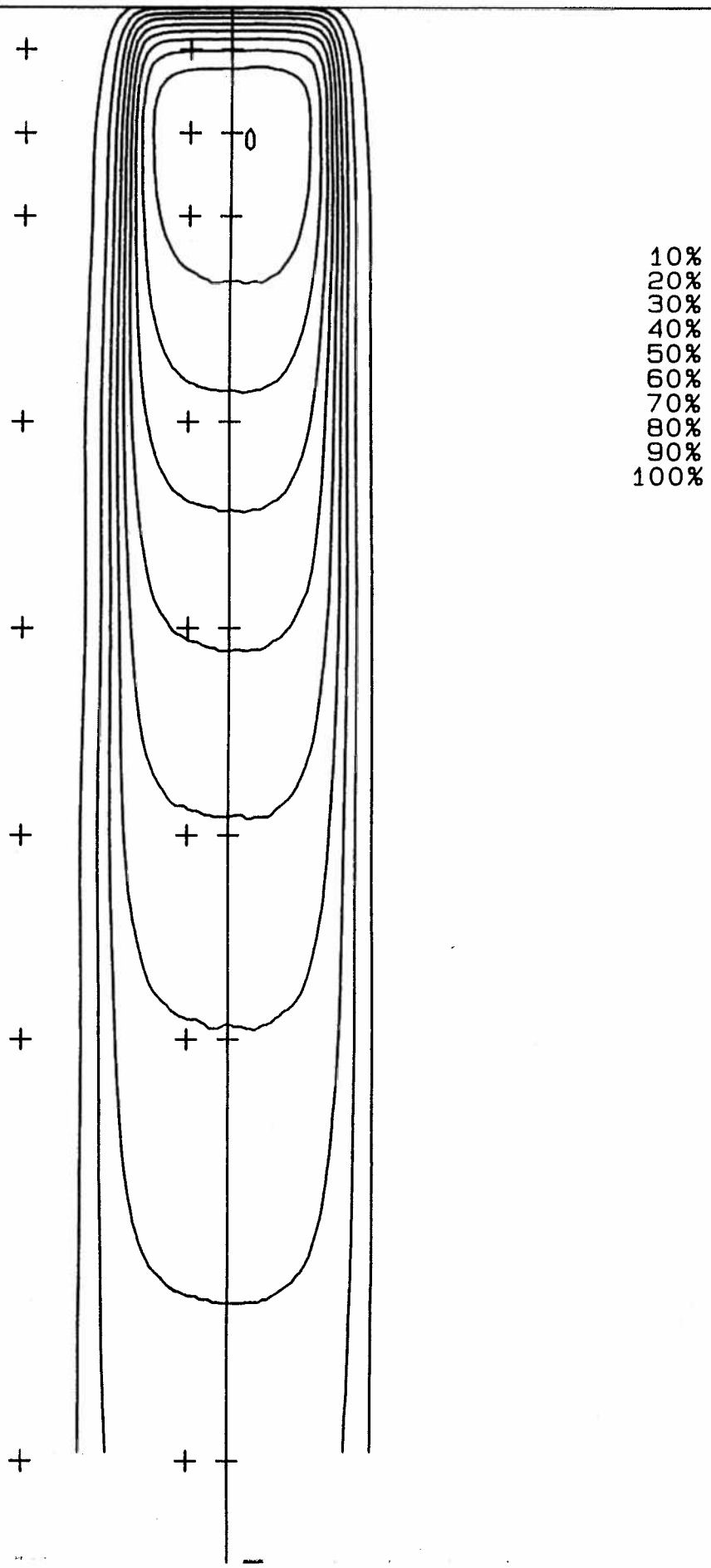
18 MV 10 X 10 cm Field Half-Beam Block In Air plot 70



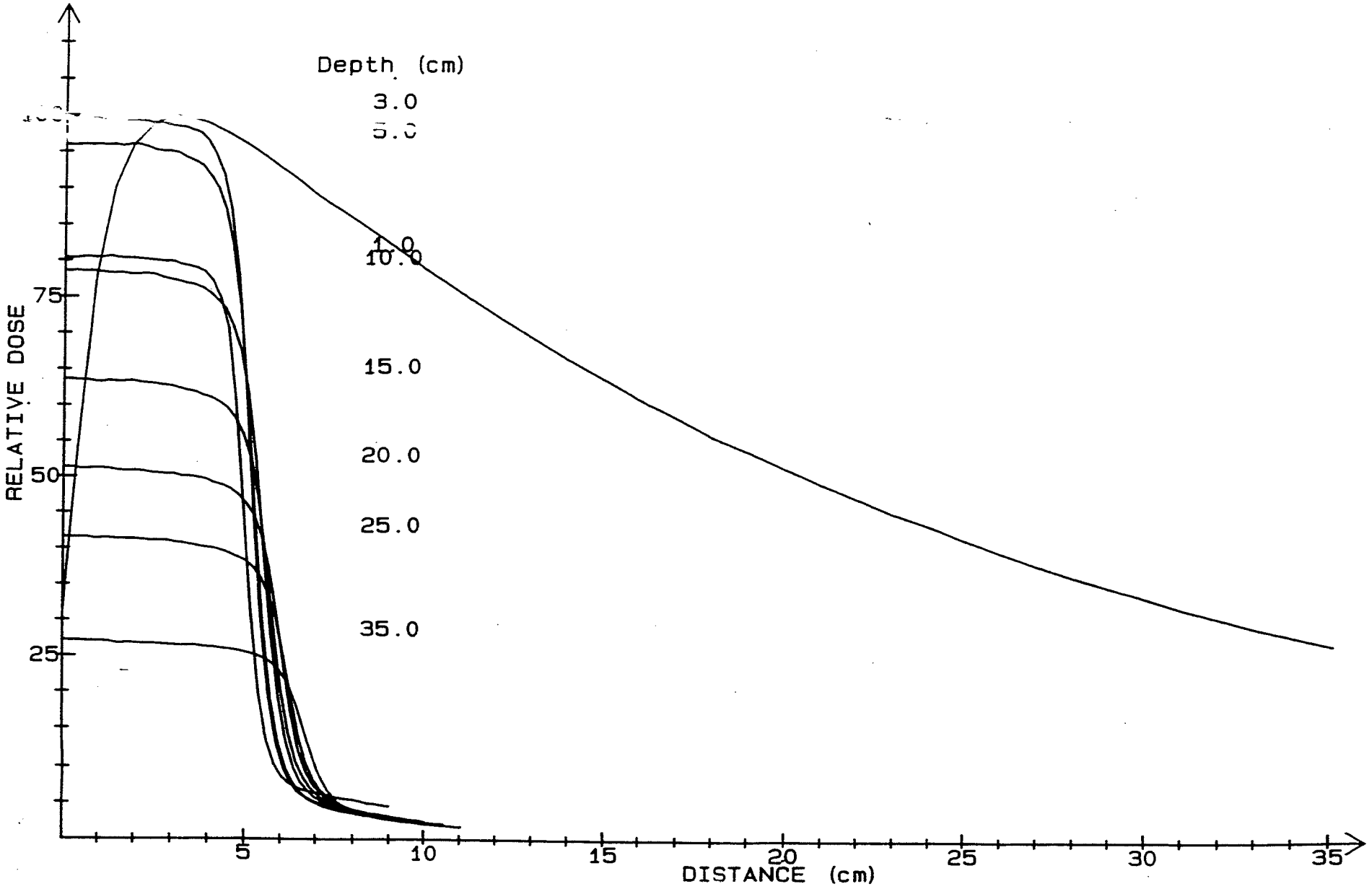
18 MV 5 X 5 cm Field Test Case plot 71



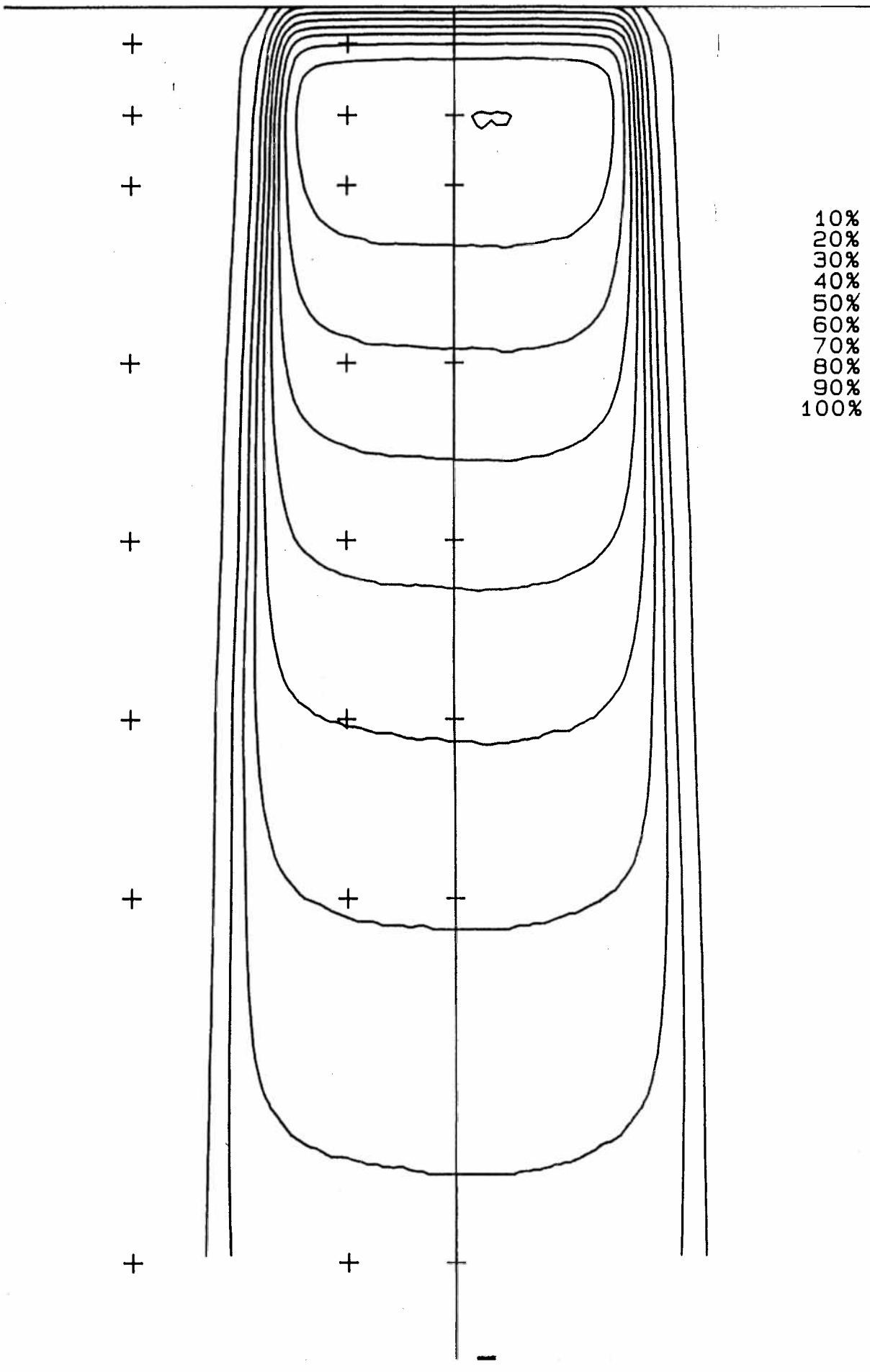
18 MV 5 X 5 cm Field Test Case plot 71a

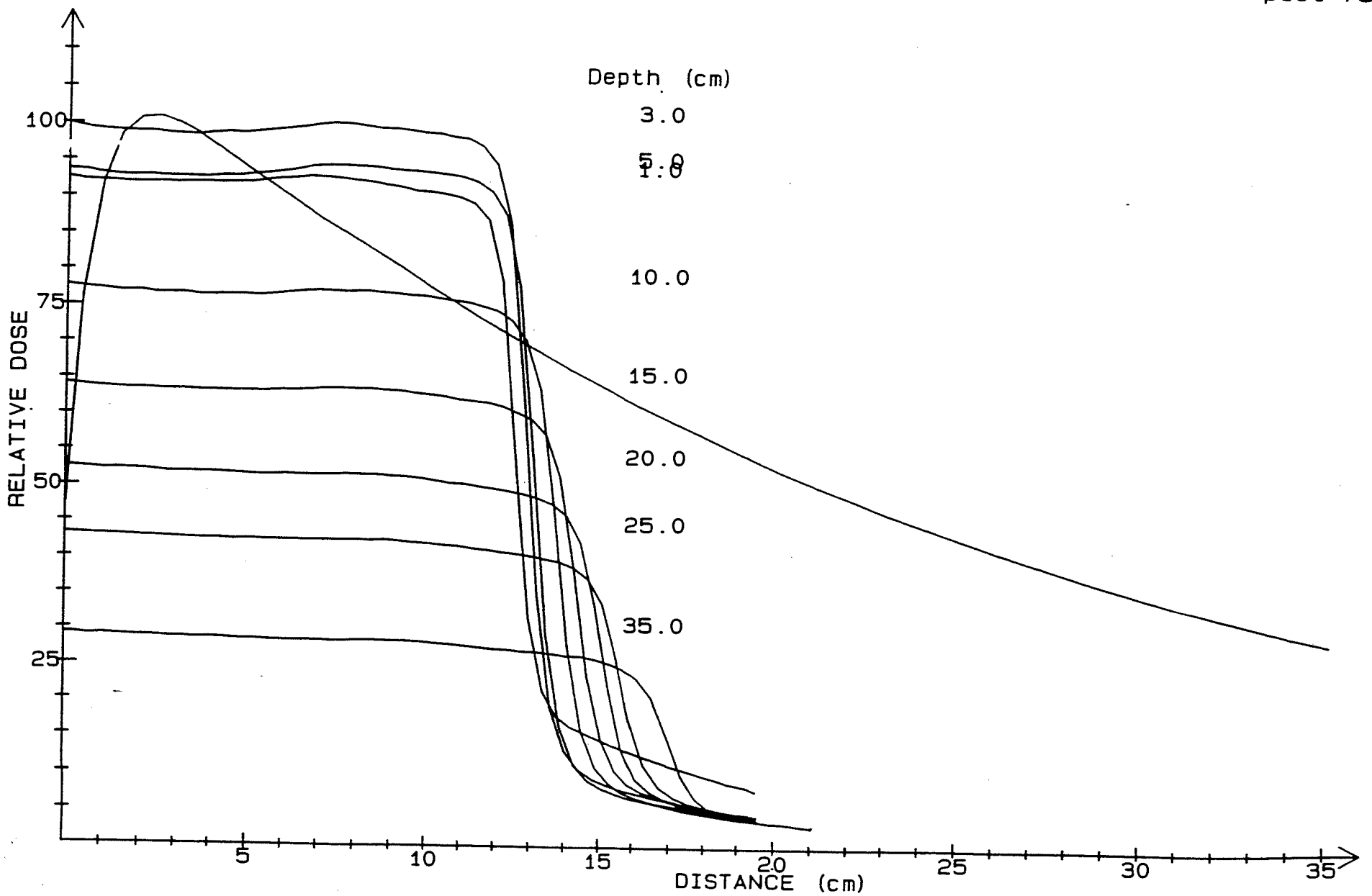


18 MV 10 X 10 cm Field Test Case plot 72

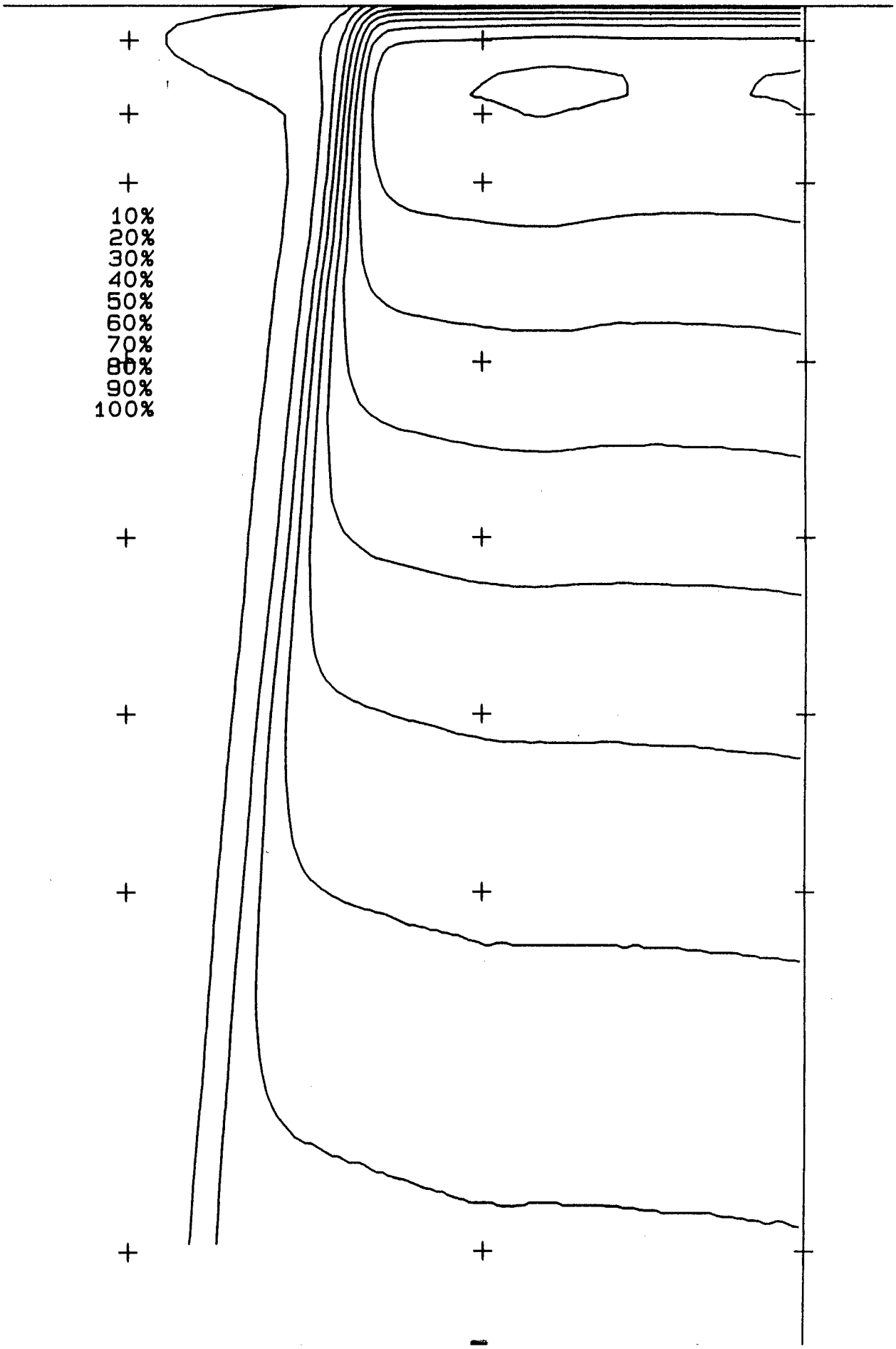


18 MV 10 X 10 cm Field Test Case plot 72a

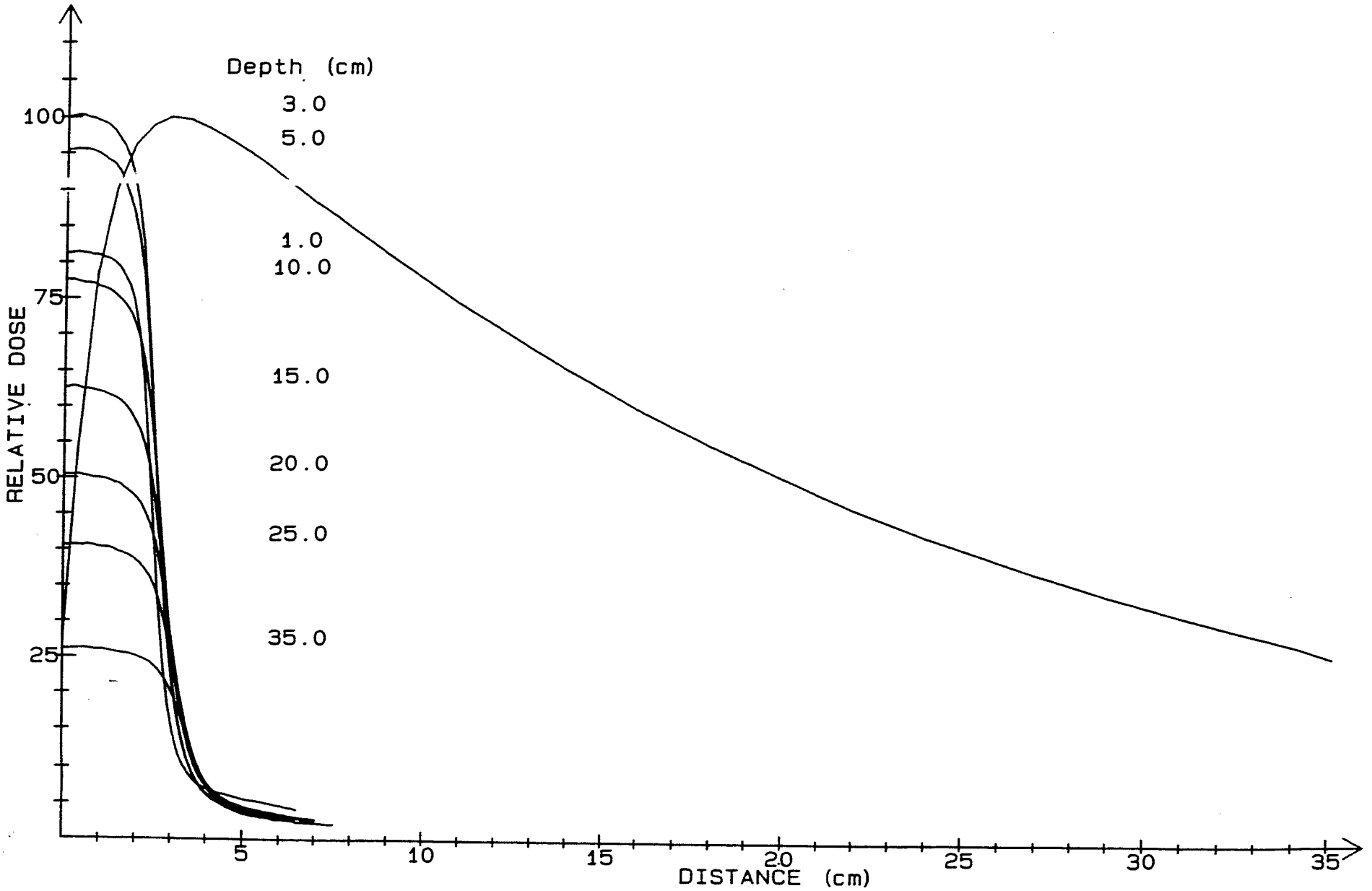



18 MV 25 X 25 cm Field Test Case
plot 73
Depth (cm)
3.0
5.0
10.0
15.0
20.0
25.0
35.0
RELATIVE DOSE
100
75
50
25
5
10
15
20
25
30
35
DISTANCE (cm)

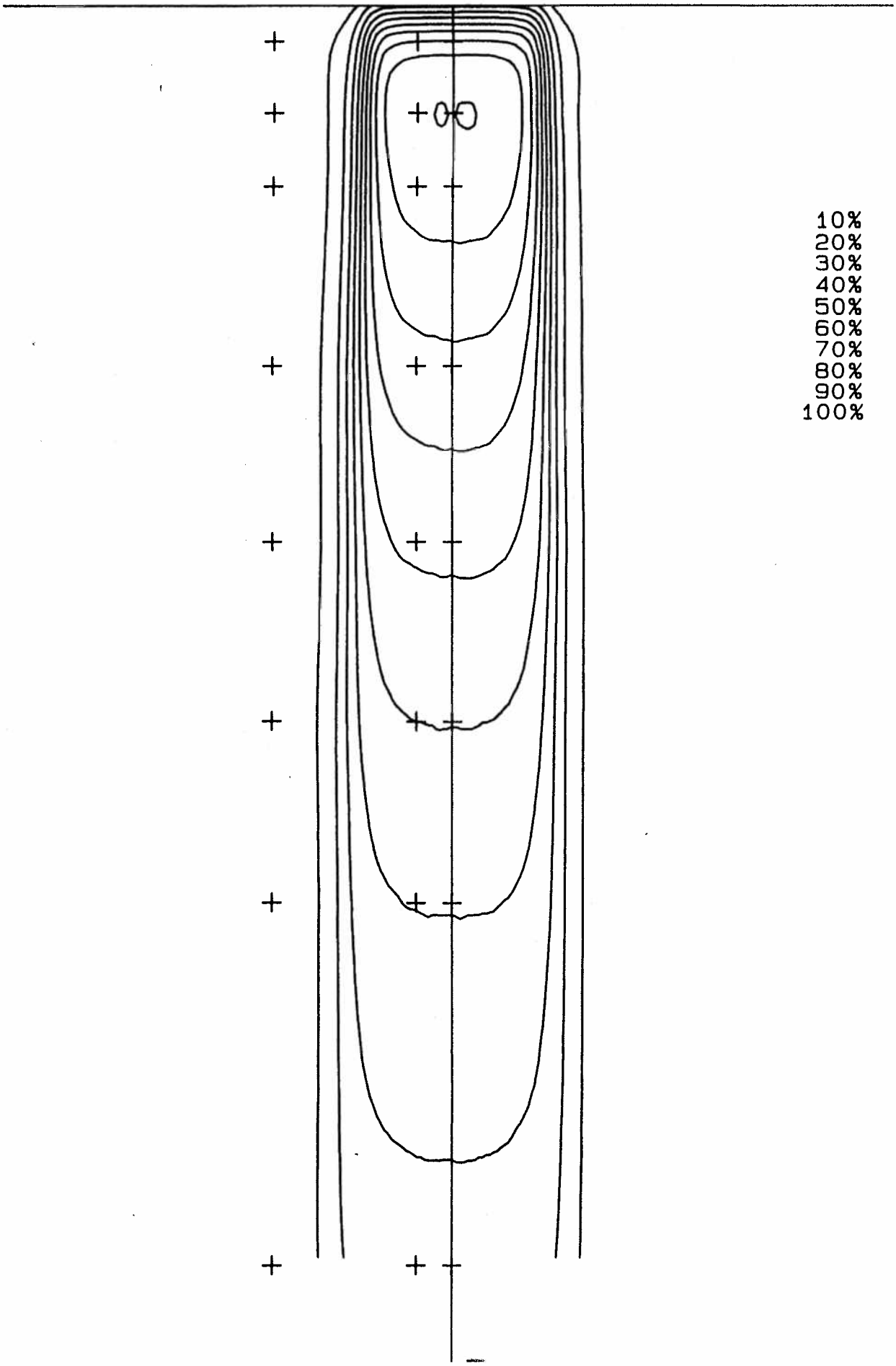
18 MV 25 X 25 cm Field Test Case plot 73a



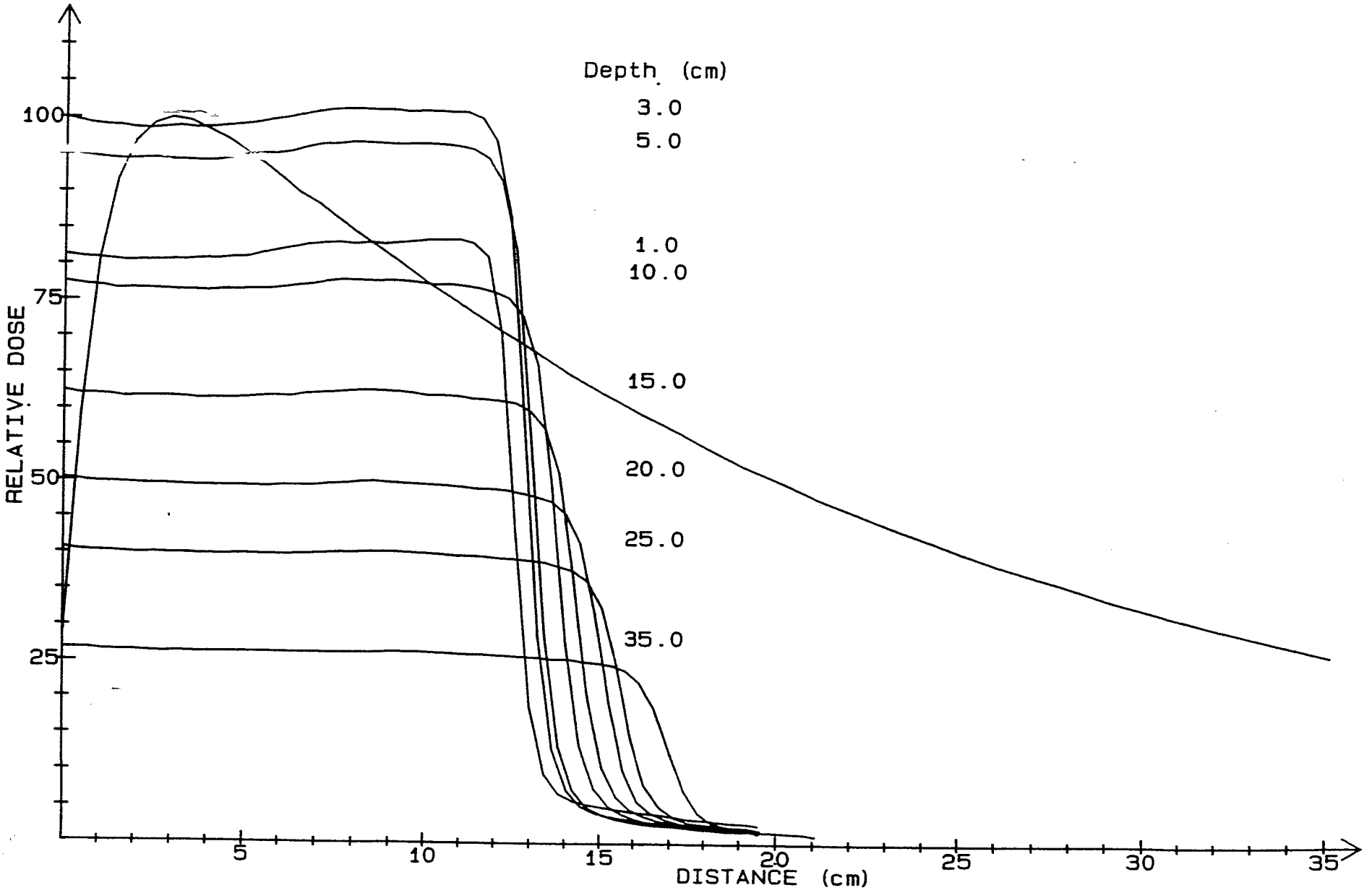
18 MV 5 X 25 cm Field Test Case plot 74



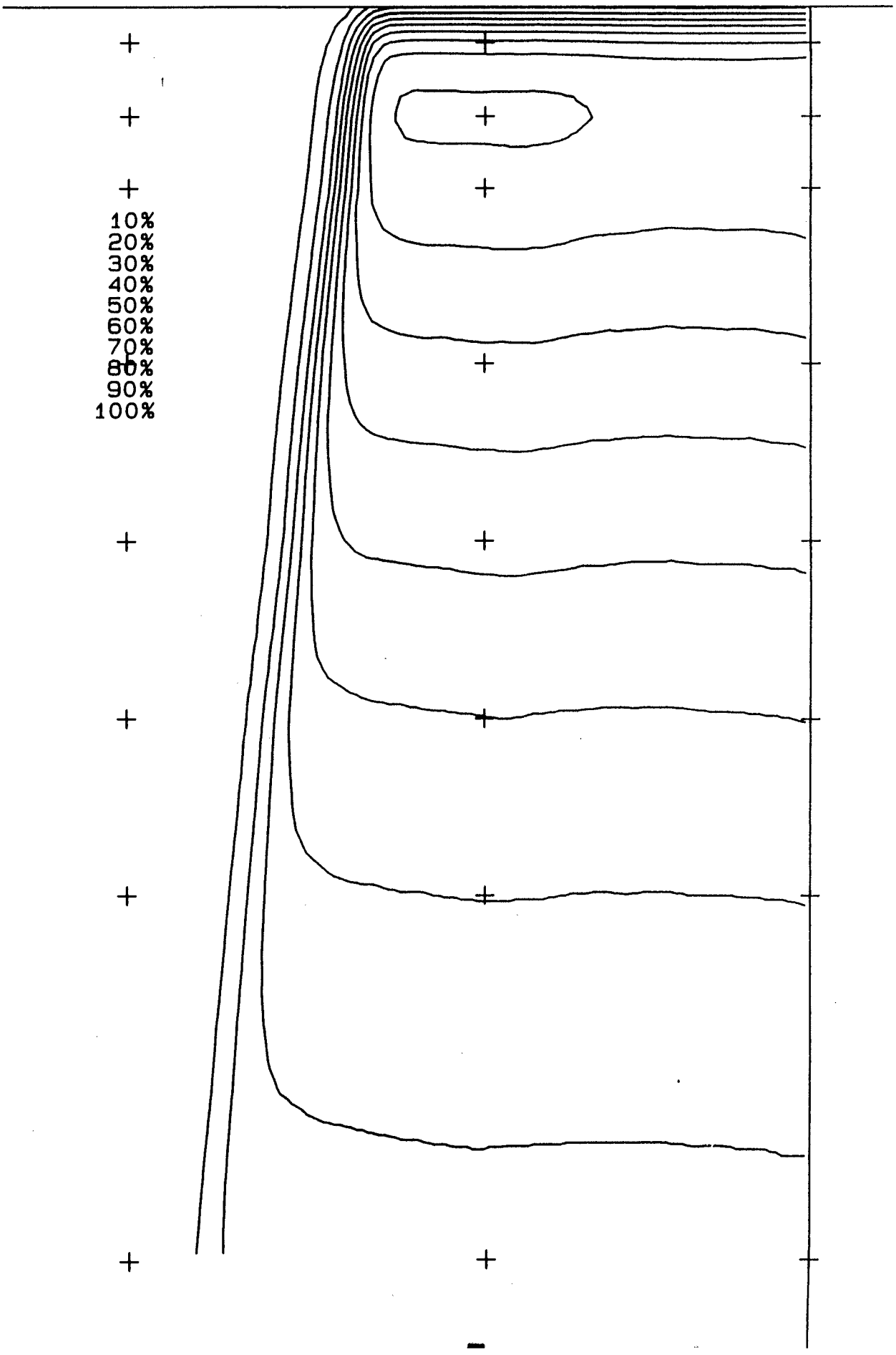
18 MV 5 X 25 cm Field Test Case plot 74a



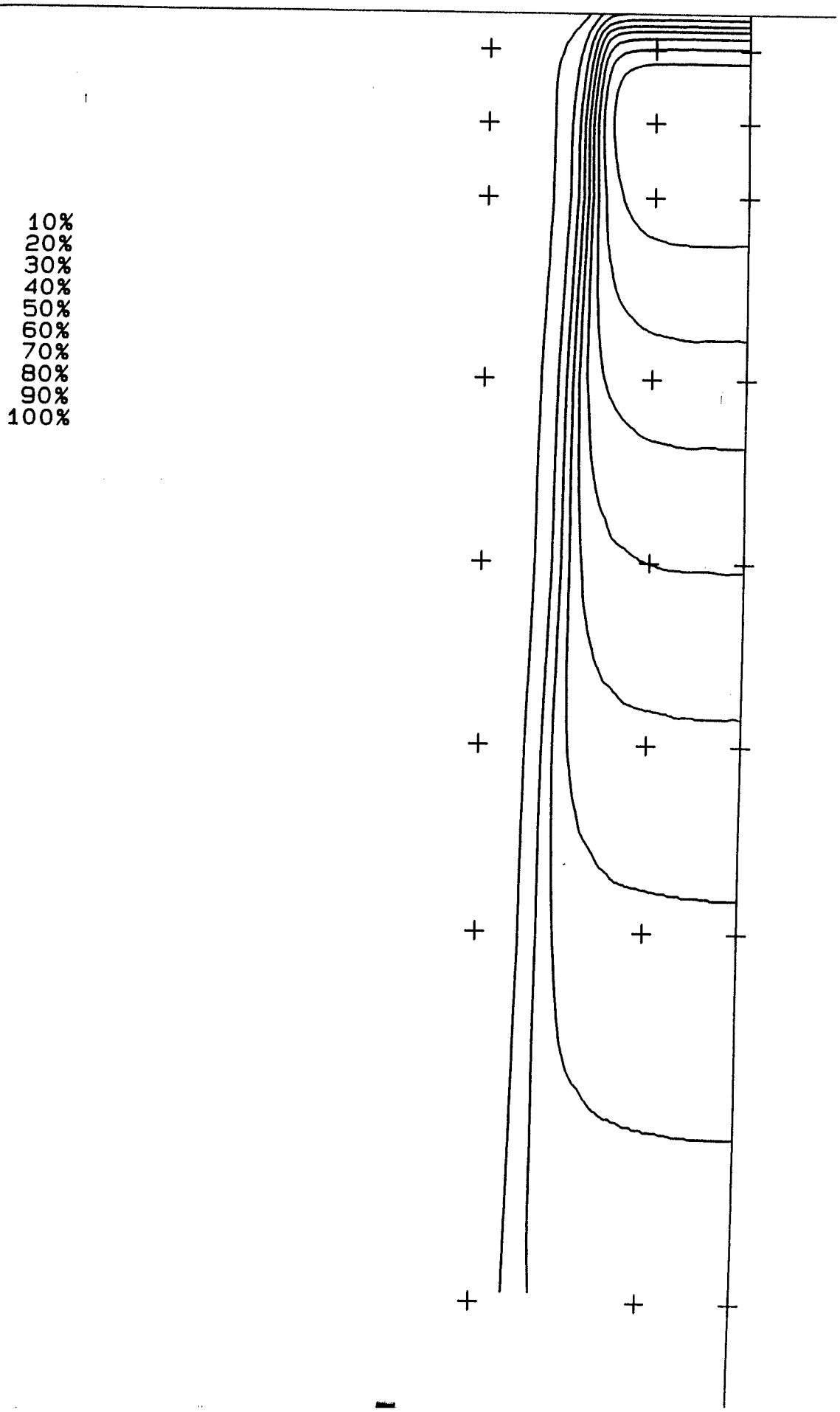
18 MV 25 X 5 cm Field Test Case plot 75



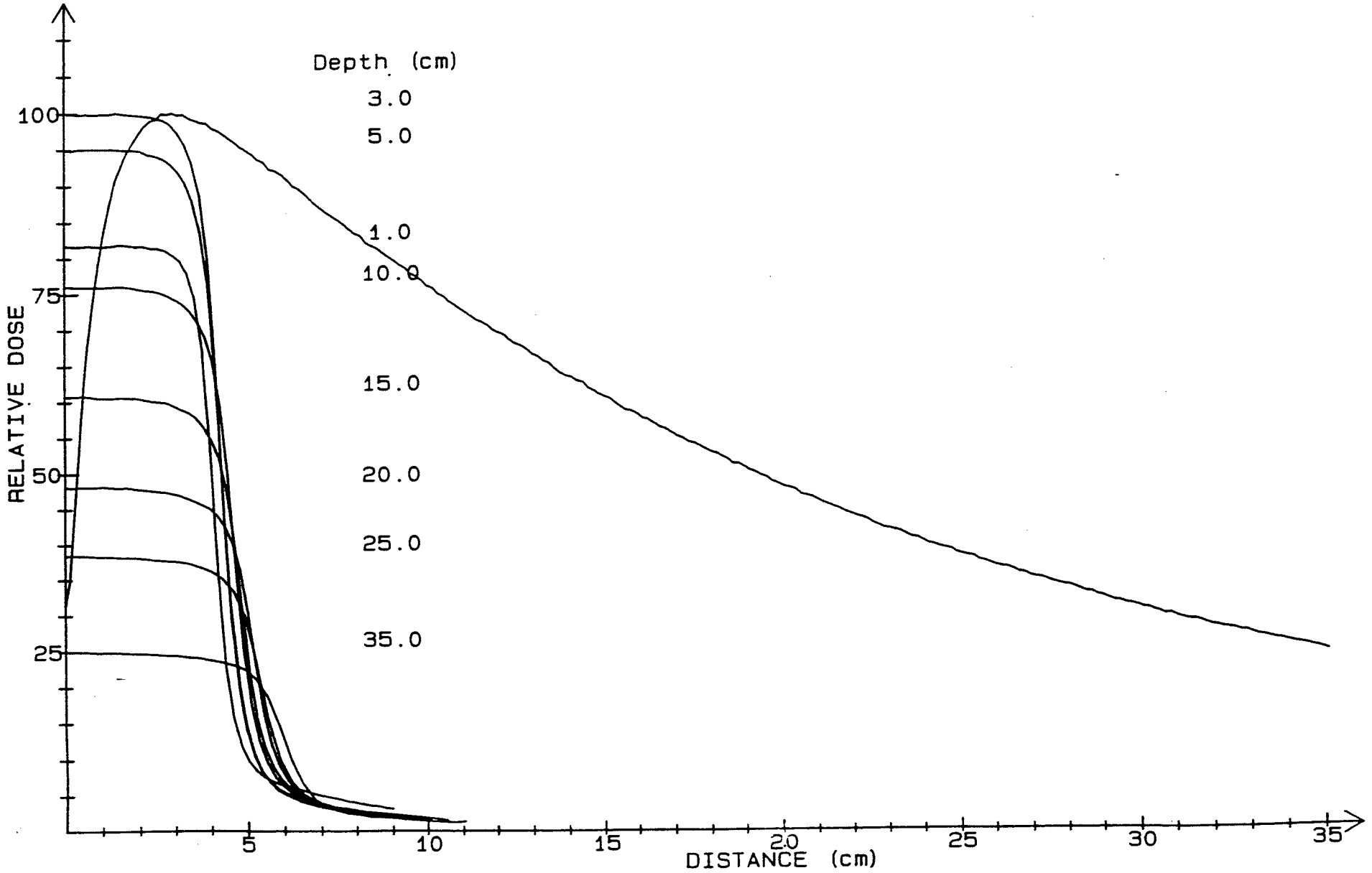
18 MV 25 X 5 cm Field Test Case plot 75a

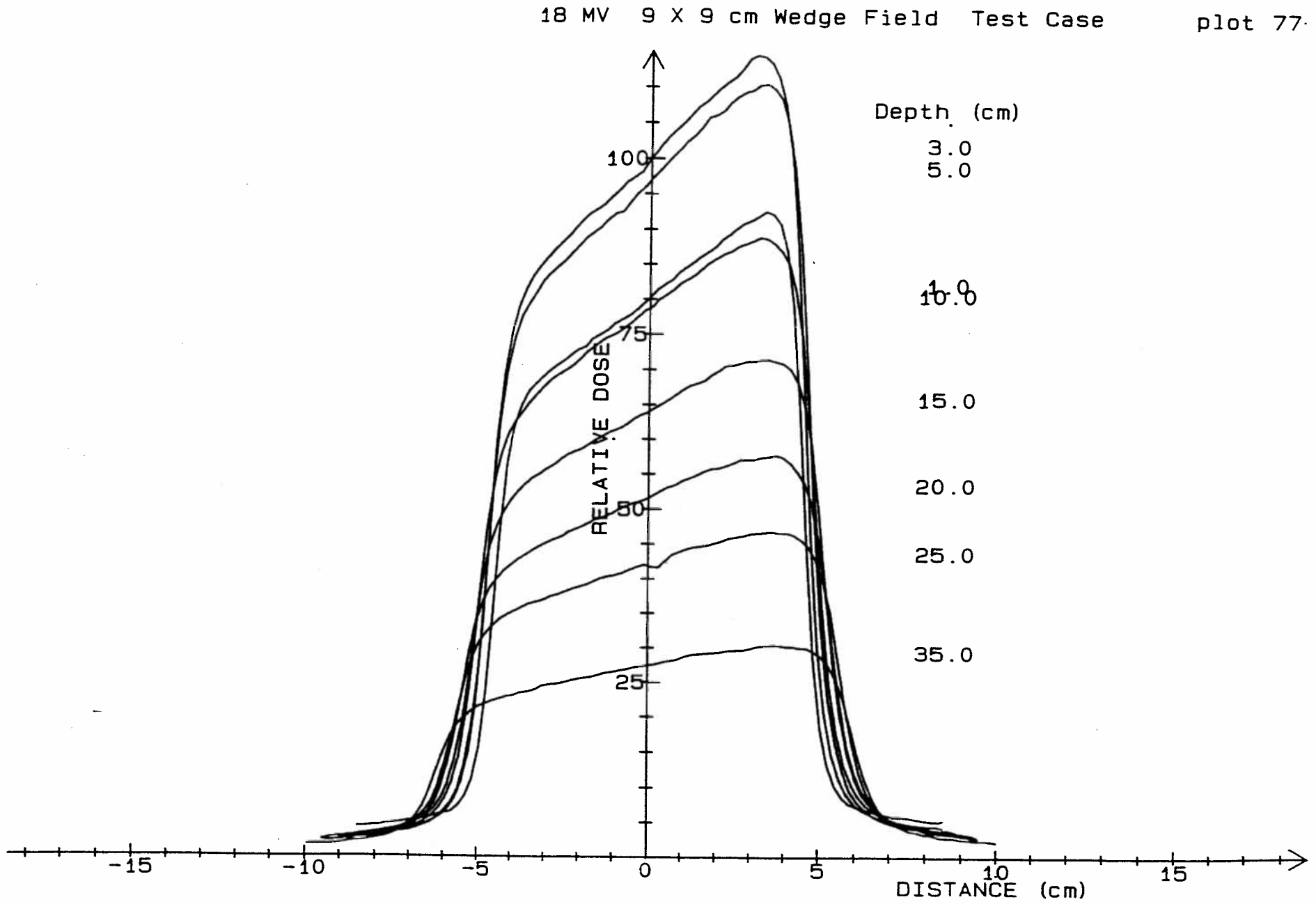


18 MV 10 X 10 cm Field 85 cm SSD Test Case plot 75a

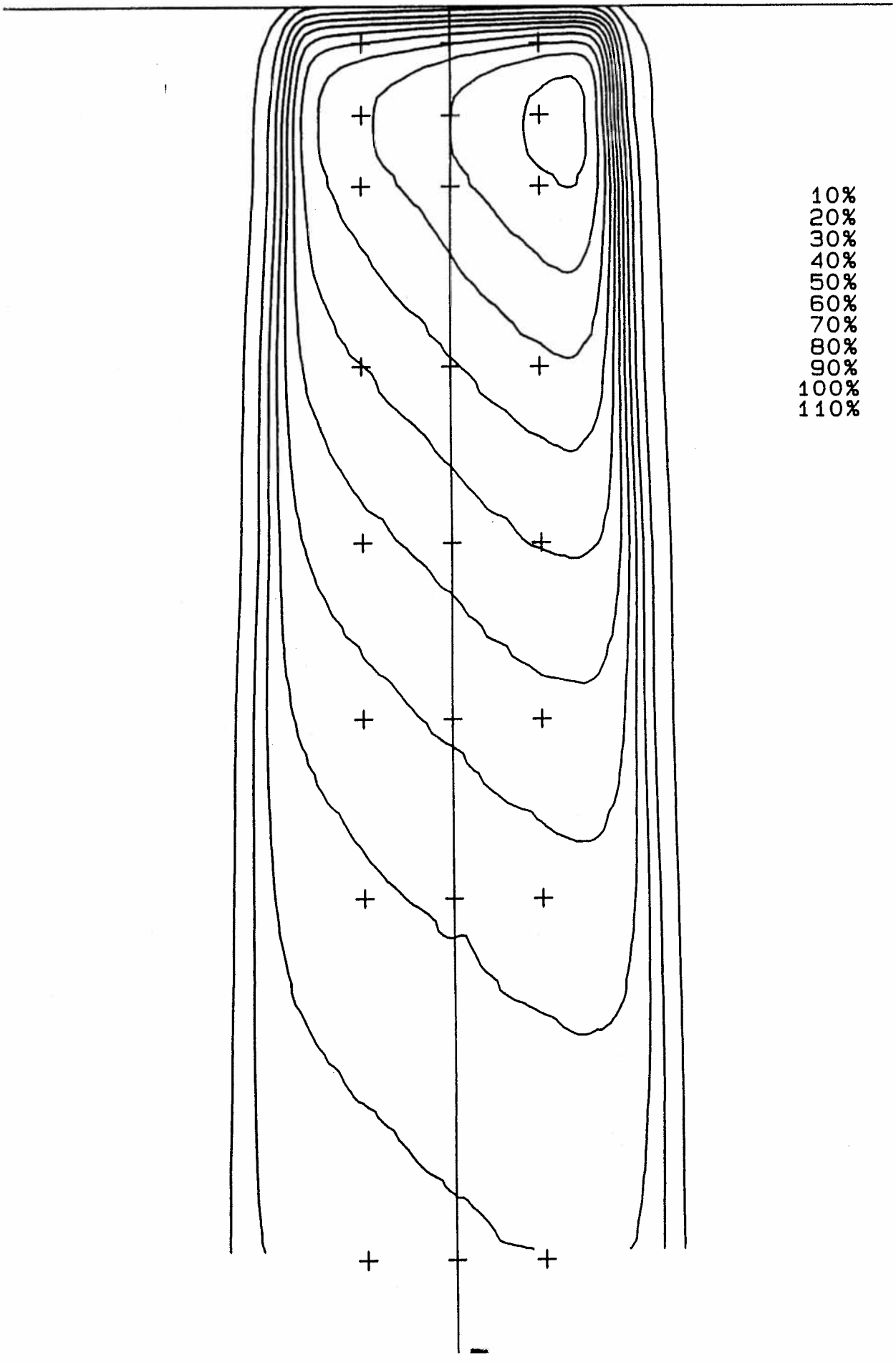


18 MV 10 X 10 cm Field 85 cm SSD Test Case plot 76

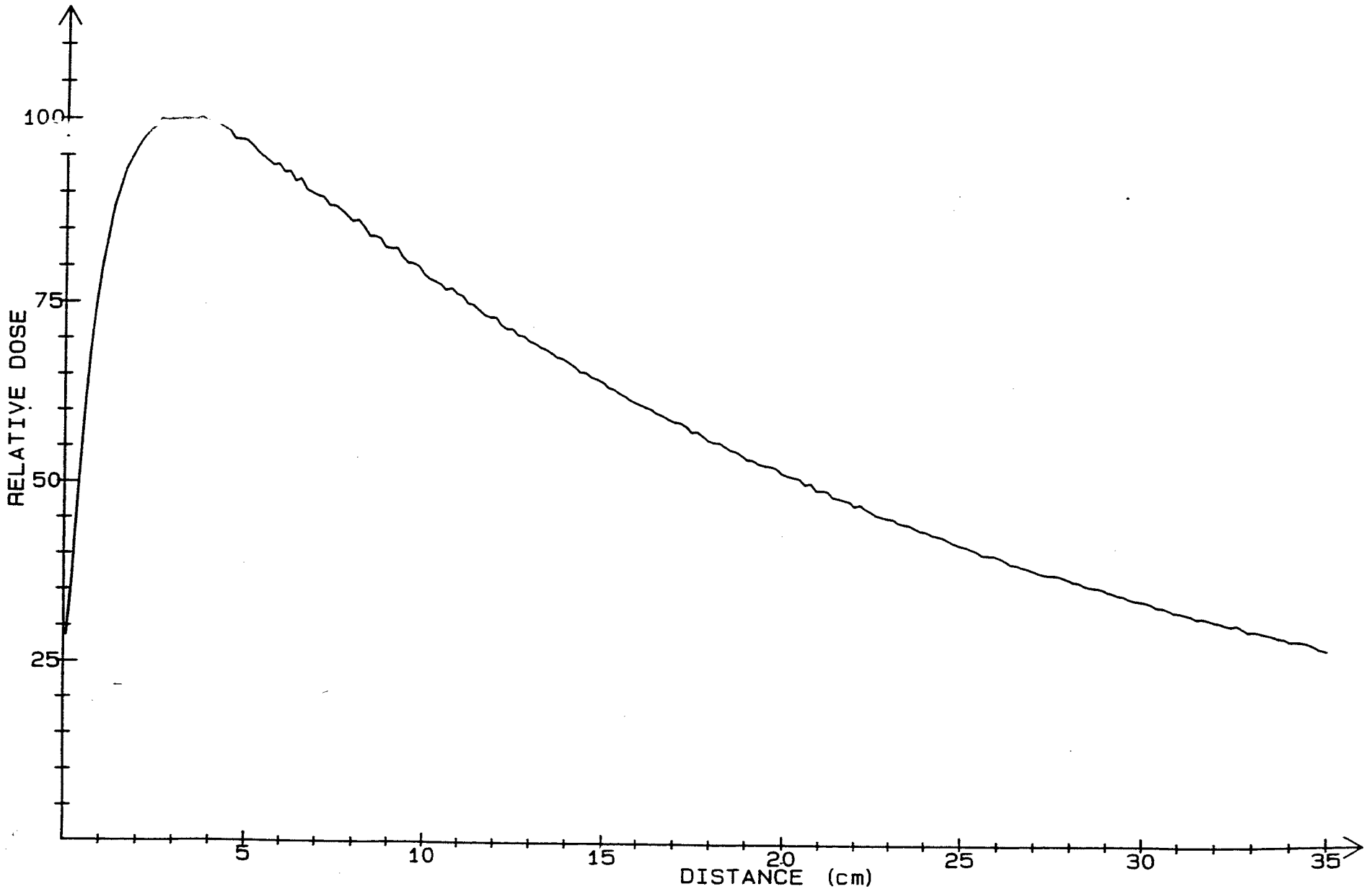


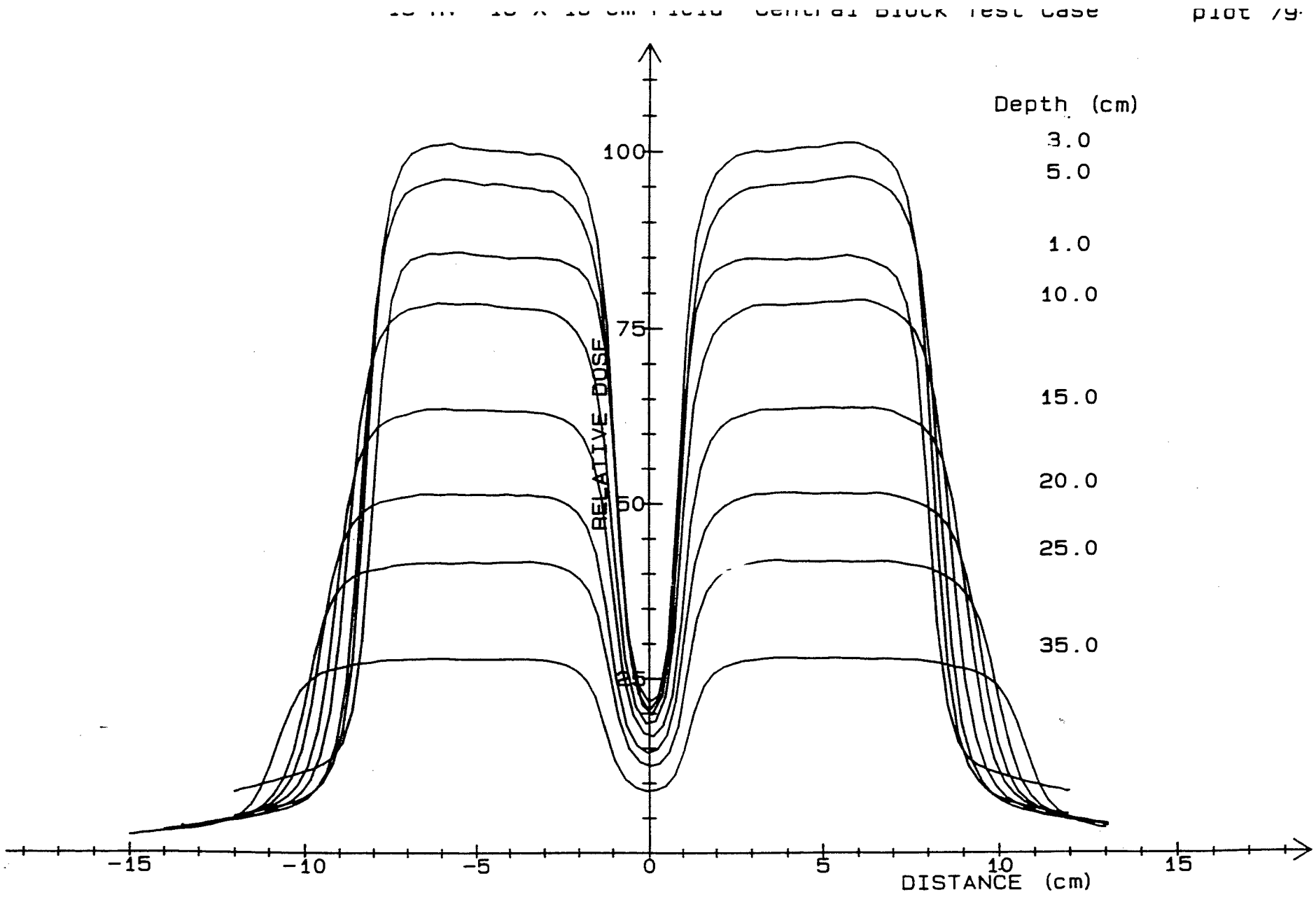

18 MV 9 X 9 cm Wedge Field Test Case
plot 77
Depth (cm)
3.0
5.0
10.0
15.0
20.0
25.0
35.0
RELATIVE DOSE
100
75
50
25
-15
-10
-5
0
5
10
15
DISTANCE (cm)

18 MV 9 X 9 cm Field Wedge Test Case plot 77a

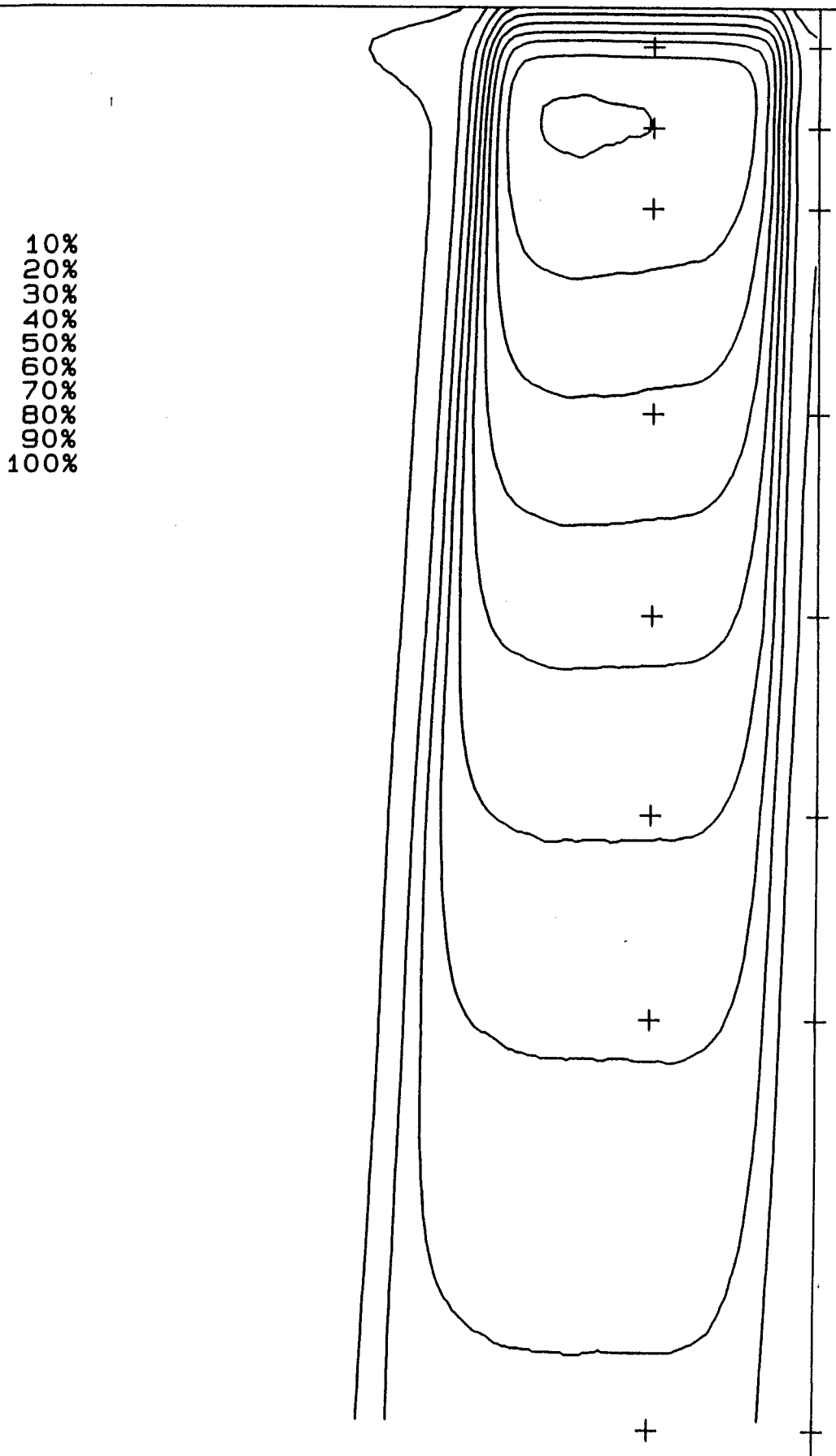


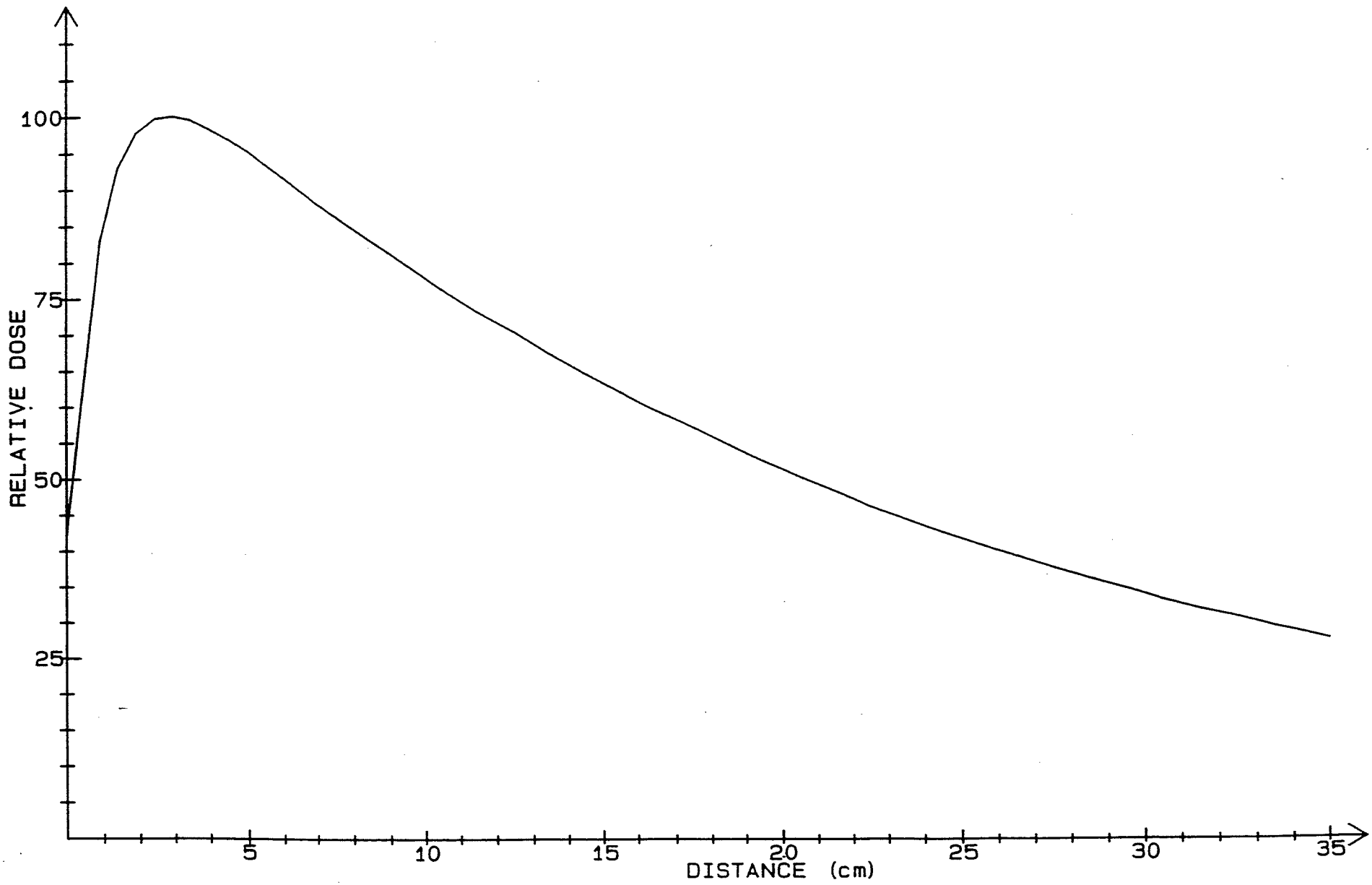
18 MV 9 X 9 cm Wedge Field Test Case plot 78



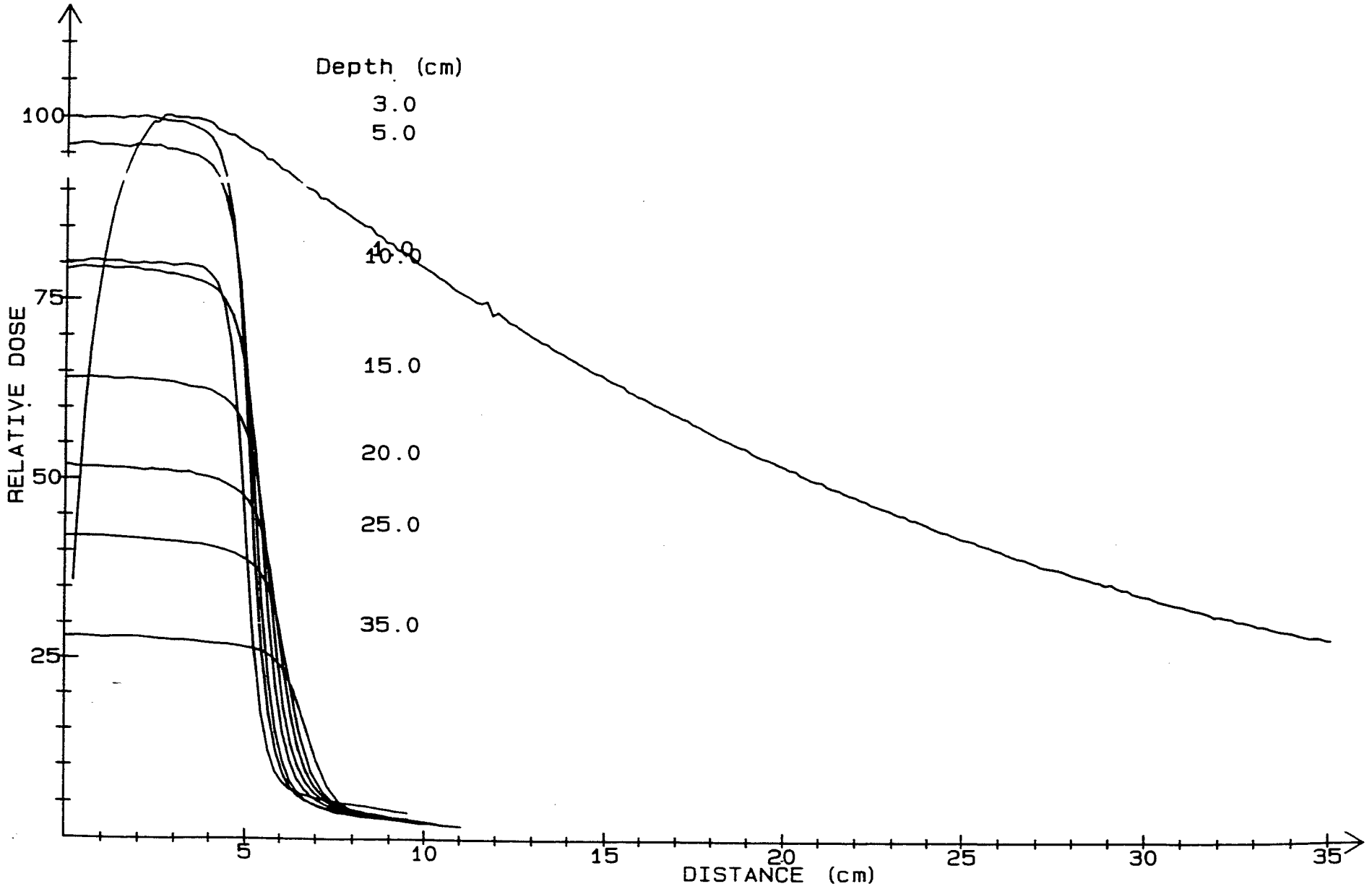

Depth (cm)
3.0
5.0
1.0
10.0
15.0
20.0
25.0
35.0
RELATIVE DOSE
100
75
50
-15
-10
-5
0
5
10
15
DISTANCE (cm)

18 MV Central Block Test Case plot 79a

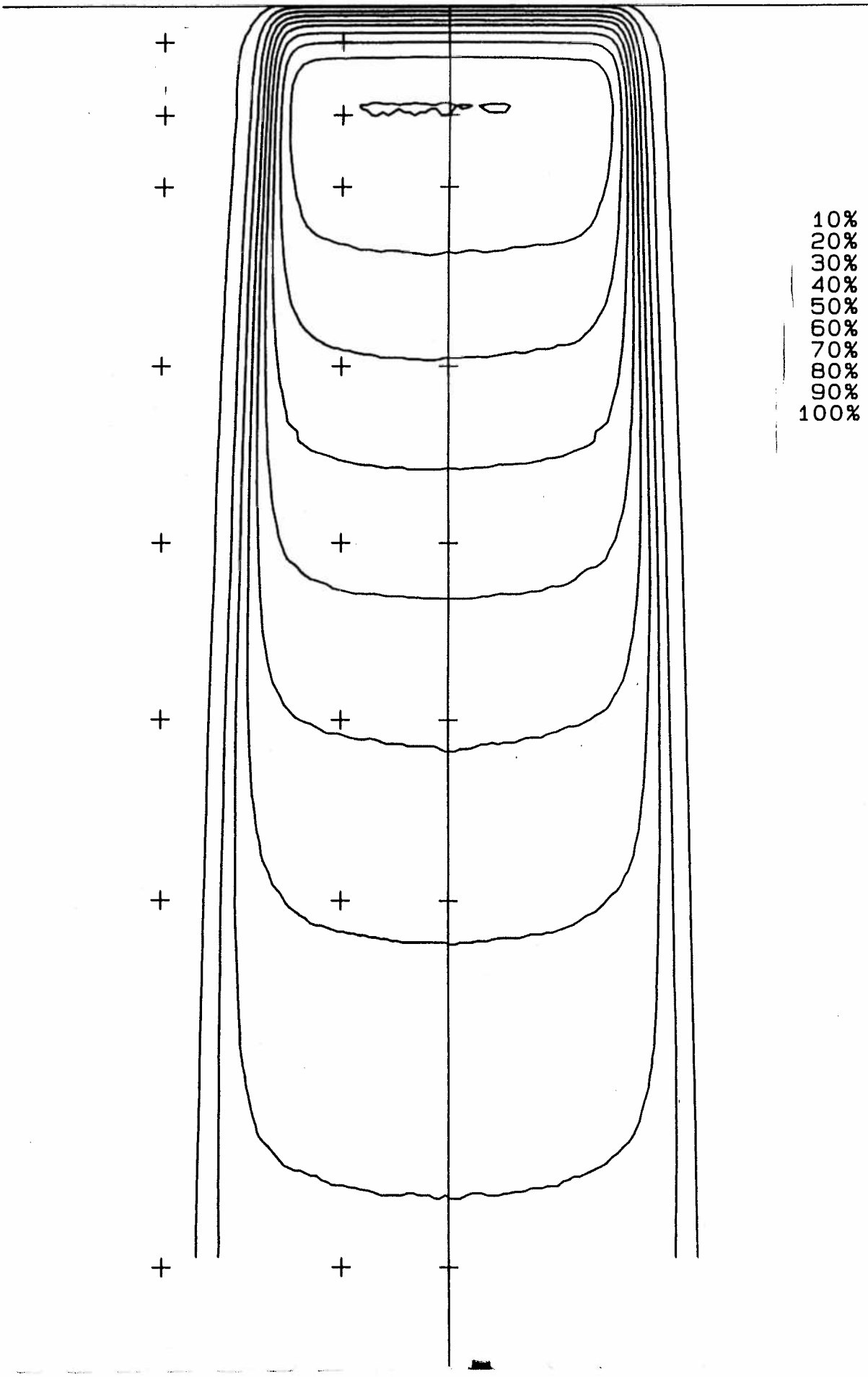



100
75
50
25
RELATIVE DOSE
5
10
15
20
25
30
35
DISTANCE (cm)

18 MV Off-Center Plane Test Case plot 81



18 MV Off-Center Plane Test Case plot 81a



18 MV Irregular Field Test Case plot 82a