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| 16. Abstract <p>Most codes of practice prescribe procedures for selecting patch configuration and materials based on test devised for evaluating new pavement materials. This study is aimed at examining the special consideration to be given to such evaluation procedures and to suggest improved procedures for brittle repair materials, based on additional tests and computer analysis.</p> <p>The first part of the present investigation covers the experimental study, in which three different repair materials, namely plain concrete, steel fiber concrete, and rapid patch material (Duracel cement) are investigated. Tests are conducted on two different patch configurations (transition and rectangular) and three different patch depths (2, 4 and 6 inches). The experimental procedure to evaluate a brittle repair material consider four tests, namely, uniaxial strength test, biaxial strength test, bond strength tests, and shear test of a repaired pavement joint. As a result of the experimental study, it is concluded that the proposed biaxial testing set-up has been shown to provide a better understanding by which the strength and behavior of brittle repair materials can be fully investigated. It is observed that the strength of the repair material under combined tension and compression is lower than under uniaxial compression, and the strength decreases as the applied tensile stress in increased.</p> <p>In the second part of this study, a mechanistic patched pavement analysis program is developed to assist in the evaluation of patching procedures and materials. Such a program can be used to develop curves which aid in the selection process. It can also be used for a case by case analysis for specific problems. This program can analyze both intact and patched concrete pavements considering different loading and support conditions, material properties, patch configurations, and depths. In this study, for the first time a complete distress simulation capability has been built into a three dimensional analysis program and it is expected that analysis using this program would enable better understanding of pavement behavior, which can lead to proper guidelines for evaluation of different materials and repair procedures in rehabilitating rigid-jointed pavements.</p> <p>This report is presented in two volumes. Volume II contains the Appendices. A separate Summary Report is issued as report number FHWA/LA-92/253.</p> | | | | | |
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ENGINEERING PROPERTIES OF BRITTLE REPAIR MATERIALS

FINAL REPORT

Volume II

by

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FEBRUARY 1992

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APPENDIX A

Table A.4

Cylinder compressive strength after 90 days

| Group | Failure Load (lb) | Strength (psi) | Average Strength (psi) |
|-------|-------------------|----------------|------------------------|
| I | 152,250 | 5,383 | 5,290 |
| | 149,000 | 5,269 | |
| | 149,500 | 5,286 | |
| | 150,175 | 5,310 | |
| | 147,750 | 5,224 | |
| | 149,000 | 5,269 | |
| | 148,000 | 5,233 | |
| | 147,500 | 5,216 | |
| | 153,750 | 5,437 | |
| | 148,000 | 5,233 | |
| | 150,720 | 5,330 | |
| II | 151,590 | 5,360 | 5,510 |
| | 157,170 | 5,557 | |
| | 154,580 | 5,465 | |
| | 157,100 | 5,555 | |
| | 159,410 | 5,636 | |
| | 154,320 | 5,456 | |
| | 167,700 | 5,930 | |
| | 148,190 | 5,240 | |
| | 155,450 | 5,496 | |
| | 152,620 | 5,396 | |

Table A.5

Static modulus of elasticity and Poisson's ratio

(a) After 28 days

| Specimen | Stress (psi) | Strain | | E (psi) | v |
|----------|-----------------|--------------|------------|------------|----------|
| | | Longitudinal | Transverse | | |
| 1 | 365.5 | 0.000050 | 0.0000042 | 4,803,618 | 0.185714 |
| | 706.7 | 0.000108 | 0.0000083 | | |
| | 1,060.1 | 0.000221 | 0.000033 | | |
| | 1,413.4 | 0.000283 | 0.000050 | | |
| | 1,766.8 | 0.000342 | 0.000058 | | |
| 2 | 330.4 | 0.000050 | 0.0000 | 4,855,405 | 0.140845 |
| | 706.7 | 0.000121 | 0.0000040 | | |
| | 1,060.1 | 0.000229 | 0.0000167 | | |
| | 1,413.4 | 0.000287 | 0.0000250 | | |
| | 1,766.8 | 0.000346 | 0.0000417 | | |
| 3 | 305.7 | 0.000050 | 0.00000 | 5,082,176 | 0.144928 |
| | 706.7 | 0.0001125 | 0.0000083 | | |
| | 1,060.1 | 0.0002167 | 0.0000250 | | |
| | 1,413.4 | 0.000279 | 0.0000350 | | |
| | 1,766.8 | 0.000337 | 0.0000417 | | |

Table A.5

Static modulus of elasticity and Poisson's ratio

(b) After 90 days

| Specimen | Stress (psi) | Strain | | E (psi) | ν |
|----------|-----------------|--------------|------------|------------|-----------|
| | | Longitudinal | Transverse | | |
| 1 | 355.1 | 0.0000400 | 0.0000052 | 4,954,418 | 0.1842105 |
| | 706.7 | 0.0001083 | 0.0000167 | | |
| | 706.7 | 0.0001771 | 0.0000292 | | |
| | 1,060.1 | 0.0002417 | 0.0000375 | | |
| | 1,413.4 | 0.0003021 | 0.0000479 | | |
| | 1,766.8 | 0.0003729 | 0.0000604 | | |
| | 2,120.1 | 0.0004063 | 0.0000708 | | |
| 2 | 323.3 | 0.0000500 | 0.0000021 | 4,662,002 | 0.1729730 |
| | 706.7 | 0.0001229 | 0.0000188 | | |
| | 706.7 | 0.0001896 | 0.0000292 | | |
| | 1,060.1 | 0.0002542 | 0.0000406 | | |
| | 1,413.4 | 0.0003229 | 0.0000521 | | |
| | 1,766.8 | 0.0003896 | 0.0000615 | | |
| | 2,120.1 | 0.0004354 | 0.0000688 | | |
| 3 | 350.9 | 0.0000500 | 0.0000021 | 5,897,506 | 0.1354167 |
| | 706.7 | 0.0001063 | 0.0000104 | | |
| | 706.7 | 0.0001583 | 0.0000188 | | |
| | 1,060.1 | 0.0002167 | 0.0000271 | | |
| | 1,413.4 | 0.0002625 | 0.0000344 | | |
| | 1,766.8 | 0.0003250 | 0.0000406 | | |
| | 2,120.1 | 0.0003500 | 0.0000427 | | |

Table A.6

Splitting tensile strength

| Group | Age of 28 Days | | | Age of 90 Days | | |
|-------|----------------|----------------|---------------|----------------|----------------|---------------|
| | Load (lb) | Strength (psi) | Average (psi) | Load (lb) | Strength (psi) | Average (psi) |
| I | 38,700 | 343.6 | 360 | 41,500 | 367.6 | 370 |
| | 38,600 | 342.7 | | 38,100 | 336.9 | |
| | 38,800 | 343.9 | | 39,200 | 348.0 | |
| | 40,000 | 355.0 | | 40,000 | 355.0 | |
| | 41,800 | 369.0 | | 41,000 | 370.0 | |
| | 41,500 | 367.0 | | 40,500 | 359.0 | |
| | 43,500 | 386.0 | | 43,900 | 390.0 | |
| | 40,000 | 355.0 | | 42,600 | 377.0 | |
| | 42,500 | 375.0 | | 44,700 | 397.0 | |
| | 40,000 | 355.0 | | 42,400 | 376.0 | |
| | 41,000 | 362.0 | | 44,600 | 394.0 | |
| II | 42,500 | 377.3 | 376 | 47,200 | 420.0 | 394 |
| | 45,500 | 403.9 | | 46,300 | 411.0 | |
| | 41,000 | 364.0 | | 42,500 | 377.3 | |
| | 43,200 | 383.5 | | 44,700 | 397.0 | |
| | 42,600 | 378.2 | | 41,750 | 370.7 | |
| | 39,300 | 349.0 | | 43,650 | 387.6 | |

Table A.7

Results of flexural strength after 28 days

| Group | Failure Load (lb) | Strength (psi) | Average Failure Load (lb) | Average Strength (psi) |
|-------|-------------------|----------------|---------------------------|------------------------|
| I | 6,300 | 525 | 7,433 | 620 |
| | 7,100 | 590 | | |
| | 6,600 | 549 | | |
| | 8,000 | 667 | | |
| | 8,800 | 733 | | |
| | 5,800 | 483 | | |
| | 6,900 | 575 | | |
| | 8,400 | 700 | | |
| | 9,000 | 750 | | |
| II | 6,800 | 566 | 7,600 | 633 |
| | 9,200 | 767 | | |
| | 7,800 | 650 | | |
| | 6,200 | 516 | | |
| | 7,400 | 616 | | |
| | 8,000 | 667 | | |
| | 8,800 | 733 | | |
| | 6,600 | 550 | | |

Table A.9

Load-deflection of flexural beam after 28 days

| Load (lb) | Dial Readings (0.001 in.) | | | | | |
|--------------|---------------------------|---------|---------|---------|---------|---------|
| | Beam #1 | Beam #2 | Beam #3 | Beam #4 | Beam #5 | Average |
| 1000 | 6.0 | 7.8 | 8.2 | 9.2 | 8.8 | 8.0 |
| 2000 | 10.0 | 10.5 | 12.5 | 14.0 | 13.2 | 12.0 |
| 3000 | 14.0 | 16.7 | 14.2 | 18.3 | 18.0 | 16.3 |
| 4000 | 20.8 | 19.3 | 22.6 | 20.2 | 23.1 | 21.2 |
| 5000 | 22.3 | 26.0 | 26.9 | 24.3 | 27.2 | 25.1 |
| 6000 | 25.4 | 29.8 | 30.8 | 25.6 | 31.0 | 28.5 |
| 7000 | 28.2 | 32.7 | 32.8 | 29.3 | 32.0 | 31.0 |
| 8000 | 31.4 | 37.0 | 38.4 | 33.8 | 36.4 | 35.4 |
| 8160 | 34.3 | 40.8 | 43.7 | 42.0 | 39.2 | 40.0 |
| 0.0 | 141.0 | 122.0 | 168.0 | 155.0 | 183.0 | 153.8 |

Table A.11

Stress-strain relation for concrete under
uniaxial tension after 28 days

| Stress (psi) | $\epsilon_1,$ | $\epsilon_3,$ |
|------------------|------------------------------------|--|
| | Tensile Strain (μ str.) | Compressive Strain (μ str.) |
| 50 | 05.0 | - 0.85 |
| 100 | 12.5 | - 2.12 |
| 150 | 16.3 | - 2.77 |
| 200 | 26.4 | - 4.49 |
| 250 | 37.5 | - 6.37 |
| 300 | 60.0 | - 10.2 |
| 350 | 68.2 | - 11.6 |
| 400 | 90.0 | - 15.3 |
| 425 | 95.2 | - 16.18 |
| 450 | 112.0 | - 19.0 |
| 500 | 138.0 | - 23.46 |
| 525 | 150.0 | - 25.5 |
| 535 (failure) | 162.5 | - 27.6 |
| 520 | 163.0 | - 27.7 |
| 500 | 165.0 | - 28.0 |
| 450 | 175.0 | - 29.8 |
| 300 | 200.0 | - 34.0 |
| 250 | 285.5 | - 48.5 |

Table A.13

Uniaxial tensile stress-tensile strain relation of patched specimens of age 28 days

| Tensile Stress, σ_1 (psi) | Tensile Strain, ϵ_1 : μ str. | |
|-------------------------------------|---|--------------------|
| | Transition of d = 2" | Rectangular d = 2" |
| 50 | 12.5 | 10 |
| 100 | 18 | 20 |
| 150 | 23 | 26 |
| 200 | 38 | 36 |
| 250 | 46 | 48 |
| 300 | 65 | 74 |
| 350 | 88 | 98 |
| 400 | 123 | 121 |
| 410 | --- | 135 |
| 430 | 155 | --- |

Table A.14

Uniaxial tensile stress-strain of patched specimen concrete of age 90 days

| Tensile Stress, σ_1 (psi) | Tensile Strain, ϵ_1 : μ str. | |
|-------------------------------------|---|--------------------|
| | Transition of d = 2" | Rectangular d = 2" |
| 50 | 8 | 8 |
| 100 | 11 | 15 |
| 150 | 18 | 22 |
| 200 | 29 | 31 |
| 250 | 38 | 42 |
| 300 | 58 | 63 |
| 350 | 78 | 86 |
| 400 | 102 | 112 |
| 430 | 133 | 145 |
| 450 | 162 | --- |

Table A.15

Uniaxial stress-strain relationship for concrete
under uniaxial compression after 28 days

| Load (lb) | Stress (σ_3) (psi) | ϵ_3 (in/in) | ϵ_1 (in/in) |
|--------------|--------------------------------|-------------------------|-------------------------|
| 25,000 | 278 | - 0.000020 | 0.0000034 |
| 50,000 | 555 | - 0.000025 | 0.0000043 |
| 75,000 | 833 | - 0.000040 | 0.0000078 |
| 100,000 | 1,111 | - 0.000060 | 0.000018 |
| 125,000 | 1,390 | - 0.000096 | 0.000026 |
| 150,000 | 1,666 | - 0.000230 | 0.000048 |
| 175,000 | 1,945 | - 0.000337 | 0.000067 |
| 200,000 | 2,222 | - 0.000456 | 0.000088 |
| 235,000 | 2,610 | - 0.000970 | 0.00016 |
| 268,000 | 2,978 | - 0.001480 | 0.00031 |
| 275,000 | 3,055 | - 0.001980 | 0.00041 |

Table A.16

Uniaxial stress-strain relation for concrete under uniaxial compression after 90 days

| Stress (σ_3) (psi) | ϵ_3 (μ st.) | ϵ_1 (μ st.) |
|--------------------------------|---------------------------|---------------------------|
| 222 | - 13 | 1.3 |
| 445 | - 20 | 3.2 |
| 667 | - 25 | 6.2 |
| 889 | - 30 | 7.1 |
| 1,111 | - 40 | 13.2 |
| 1,333 | - 70 | 23.2 |
| 1,556 | - 163 | 43.1 |
| 1,778 | - 198 | 46.6 |
| 2,000 | - 300 | 65.2 |
| 2,222 | - 400 | 80.1 |
| 2,445 | - 500 | 132.7 |
| 2,667 | - 820 | 285.0 |
| 2,778 | - 1,000 | 300.0 |
| 2,889 | - 1,225 | 360.0 |
| 3,000 | - 1,375 | 392.0 |
| 3,111 | - 1,650 | 415.0 |
| 3,222 | - 2,080 | 470.0 |
| 3,250 | - 2,460 | 492.0 |

Table A.17(a)

Stress-strain relation of transition patched specimens
subjected to uniaxial compression after 28 days

| Stress, σ_3 (psi) | Strain (μ str.) | | |
|-----------------------------|----------------------|------------------|---------|
| | d = 2" | d = 7" | d = 10" |
| 200 | 20 | 20 | 40 |
| 500 | 80 | 50 | 70 |
| 800 | 170 | 200 | 150 |
| 1,000 | 180 | 220 | 200 |
| 1,200 | 250 | 300 | 340 |
| 1,500 | 420 | 450 | 500 |
| 1,800 | 480 | 550 | 580 |
| 2,000 | 540 | 680 | 730 |
| 2,500 | 840 | 900 | 1,000 |
| (peak) | 1,400 (3,010) | 1,060 (2,700) | (2,500) |

Table A.17(b)

Stress-strain relation of rectangular patched specimens
subjected to uniaxial compression after 28 days

| Stress, σ_3 (psi) | Strain (μ str.) | | |
|-----------------------------|----------------------|------------------|------------------|
| | d = 2" | d = 7" | d = 10" |
| 200 | 50 | 10 | 80 |
| 500 | 100 | 30 | 100 |
| 800 | 200 | 240 | 280 |
| 1,000 | 220 | 270 | 310 |
| 1,200 | 280 | 350 | 410 |
| 1,500 | 460 | 510 | 530 |
| 1,800 | 520 | 600 | 650 |
| 2,000 | 600 | 690 | 710 |
| 2,500 | 1,030 | 930 | |
| (peak stress) | 1,300 (2,790) | 1,100 (2,540) | 1,200 (2,380) |

Table A.18

Stress-strain relation of patched specimens subjected to uniaxial compression after 90 days

| Stress, σ_3 (psi) | Strain (μ str.) | |
|-----------------------------|----------------------|-----------------------|
| | Transition of d = 7" | Rectangular of d = 7" |
| 200 | 13 | 11 |
| 500 | 42 | 25 |
| 800 | 187 | 200 |
| 1,000 | 208 | 250 |
| 1,200 | 288 | 300 |
| 1,500 | 420 | 490 |
| 1,800 | 520 | 570 |
| 2,000 | 665 | 675 |
| 2,300 | 710 | 785 |
| 2,500 | 800 | 880 |
| 2,690 | --- | 1,150 |
| 2,810 | 1,120 | --- |

Table A.19

Material properties obtained from the uniaxial tests

| Specimen | f_{tu} (psi) | ϵ_p ($\mu\text{str.}$) | f_{cu} (psi) | ϵ_c ($\mu\text{str.}$) | E_t (psi) | E_c (psi) | $\frac{E_t}{f_{tu}/\epsilon_p}$ | $\frac{E_c}{f_{cu}/\epsilon_c}$ |
|----------------------|-------------------|--------------------------------------|-------------------|--------------------------------------|-------------------|-------------------|---------------------------------|---------------------------------|
| Non-Patched Specimen | 535 | 163 | 3,070 | 1,980 | 5.0×10^6 | 7.2×10^6 | 1.52 | 4.6 |
| Transition Patch | | | | | | | | |
| d = 2" | 430 | 155 | 3,010 | 1,400 | 4.6×10^6 | 4.8×10^6 | 1.66 | 2.2 |
| d = 7" | --- | --- | 2,700 | 1,060 | --- | 4.0×10^6 | --- | 1.6 |
| d = 10" | --- | --- | 2,500 | 1,000 | --- | 3.8×10^6 | --- | 1.52 |
| Rectangular Patch | | | | | | | | |
| d = 2" | 410 | 135 | 2,800 | 1,300 | 4.1×10^6 | 4.3×10^6 | 1.35 | 2.0 |
| d = 7" | --- | --- | 2,540 | 1,100 | --- | 3.6×10^6 | --- | 1.56 |
| d = 10" | --- | --- | 2,380 | 1,200 | --- | 3.2×10^6 | --- | 1.61 |

Table A.20

Ultimate strength of concrete subjected to biaxial
tension-compression after 28 days

| Compressive Load (lb) | Working Pressure (psi) | Compressive Strength (psi) | Tensile Strength (psi) |
|-----------------------|------------------------|----------------------------|------------------------|
| 289,000 | 0 | 3,211 | 0.0 |
| 293,000 | 0 | 3,256 | 0.0 |
| 278,000 | 0 | 3,094 | 0.0 |
| 281,000 | 0 | 3,128 | 0.0 |
| 0 | 1,400 | 0 | 375.0 |
| 0 | 2,000 | 0 | 535.0 |
| 0 | 2,200 | 0 | 589.0 |
| 265,750 | 300 | 2,953 | 80.3 |
| 214,720 | 300 | 2,386 | 80.3 |
| 263,320 | 300 | 2,926 | 80.3 |
| 245,210 | 500 | 2,724 | 133.8 |
| 207,720 | 500 | 2,308 | 133.8 |
| 228,000 | 600 | 2,533 | 160.6 |
| 205,000 | 600 | 2,278 | 160.6 |
| 219,800 | 700 | 2,442 | 187.3 |
| 165,800 | 1,000 | 1,842 | 267.6 |
| 188,580 | 1,000 | 2,095 | 267.6 |
| 150,800 | 1,200 | 1,675 | 321.2 |
| 93,280 | 1,600 | 1,036 | 428.2 |
| 28,720 | 1,700 | 319 | 455.0 |

Table A.21

Ultimate strength of concrete subjected to biaxial
tension-compression after 90 days

| Compressive Load (lb) | Working Pressure (psi) | Compressive Strength (psi) | Tensile Strength (psi) |
|-----------------------|------------------------|----------------------------|------------------------|
| 305,220 | 0 | 3,391 | 0 |
| 295,150 | 0 | 3,280 | 0 |
| 303,000 | 0 | 3,367 | 0 |
| 285,250 | 0 | 3,170 | 0 |
| 292,540 | 0 | 3,250 | 0 |
| 0 | 2,230 | 0 | 597 |
| 0 | 2,120 | 0 | 568 |
| 0 | 2,050 | 0 | 550 |
| 80,000 | 1,830 | 890 | 491 |
| 121,000 | 1,590 | 1,345 | 426 |
| 160,000 | 1,420 | 1,778 | 381 |
| 140,000 | 1,470 | 1,555 | 395 |
| 100,000 | 1,725 | 1,111 | 463 |
| 60,000 | 1,980 | 667 | 531 |
| 40,000 | 2,030 | 445 | 545 |
| 230,000 | 840 | 2,556 | 225 |
| 270,000 | 500 | 3,000 | 135 |
| 200,000 | 1,080 | 2,222 | 290 |
| 292,000 | 450 | 3,245 | 120 |

Table A.22

Ultimate strength of patched specimens of age 28 days

| Patch Shape | depth = 2" | | depth = 7" | | depth = 10" | |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | σ_3 (psi) | σ_1 (psi) | σ_3 (psi) | σ_1 (psi) | σ_3 (psi) | σ_1 (psi) |
| Transition | 2,950 | 0 | 2,665 | 0 | 2,550 | 0 |
| | 0 | 435 | 0 | 350 | 0 | 270 |
| | 1,030 | 325 | 600 | 340 | 930 | 260 |
| | 1,990 | 200 | 1,150 | 265 | 1,720 | 135 |
| | 2,500 | 85 | 1,430 | 200 | 2,000 | 100 |
| | 2,700 | 50 | 1,720 | 190 | 2,400 | 25 |
| | 2,800 | 20 | 2,350 | 70 | | |
| Rectangular | 2,860 | 0 | 2,570 | 0 | 2,350 | 0 |
| | 0 | 415 | 0 | 315 | 0 | 235 |
| | 1,050 | 300 | 760 | 290 | 900 | 230 |
| | 2,000 | 170 | 1,280 | 220 | 1,790 | 120 |
| | 2,500 | 60 | 1,925 | 115 | 2,000 | 60 |
| | | | 2,300 | 50 | | |

Table A.23

Ultimate strength of patched specimens
(d = 7") of age 90 days

| Transition Patch | | Rectangular Patch | |
|---------------------|---------------------|---------------------|---------------------|
| σ_3 (psi) | σ_1 (psi) | σ_3 (psi) | σ_1 (psi) |
| 2,810 | 0 | 2,690 | 0 |
| 0 | 380 | 0 | 340 |
| 665 | 350 | 315 | 330 |
| 2,500 | 65 | 800 | 300 |
| 1,900 | 170 | 1,270 | 245 |
| 1,230 | 300 | 2,155 | 95 |
| 950 | 320 | 1,615 | 190 |
| 2,250 | 120 | 2,470 | 40 |

Table A.24. Biaxial stress-strain relation after 28 days.

(a) Failure load: $\sigma_1 = 80.3$ psi, $\sigma_3 = - 2,378$ psi

| Compression Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Longitudinal Strain ϵ_3 (in/in) | Transverse Strain ϵ_1 (in/in) |
|---|---------------------------------------|--|--|
| - 278 | 10 | - 3.2×10^{-5} | 39×10^{-6} |
| - 555 | 18 | - 1.1×10^{-4} | 50×10^{-6} |
| - 833 | 28 | - 1.9×10^{-4} | 52×10^{-6} |
| - 1,111 | 38 | - 2.3×10^{-4} | 73×10^{-6} |
| - 1,380 | 46 | - 3.3×10^{-4} | 103×10^{-6} |
| - 1,667 | 55 | - 4.1×10^{-4} | 180×10^{-6} |
| - 1,945 | 65 | - 6.4×10^{-4} | 250×10^{-6} |
| - 2,222 | 75 | - 9.6×10^{-4} | 3.03×10^{-4} |
| - 2,378 | 80.3 | - 1.26×10^{-3} | 4.6×10^{-4} |

Table A.24

Biaxial stress-strain relation after 28 days

(b) Failure load: $\sigma_1 = 160$ psi, $\sigma_3 = -2,278$ psi

| Compression Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Longitudinal Strain ϵ_3 (in/in) | Transverse Strain ϵ_1 (in/in) |
|--|--|---|---|
| - 222 | 16 | - 4.8×10^{-5} | 20×10^{-6} |
| - 444 | 31 | - 9.6×10^{-5} | 41×10^{-6} |
| - 667 | 47 | - 1.4×10^{-4} | 59×10^{-6} |
| - 889 | 63 | - 1.9×10^{-4} | 85×10^{-6} |
| - 1,111 | 78 | - 2.4×10^{-4} | 125×10^{-6} |
| - 1,333 | 95 | - 3.0×10^{-4} | 220×10^{-6} |
| - 1,778 | 125 | - 4.22×10^{-4} | 390×10^{-6} |
| - 2,000 | 140 | - 6.2×10^{-4} | 490×10^{-6} |
| - 2,167 | 152 | - 7.3×10^{-4} | 548×10^{-6} |
| - 2,222 | 156 | - 8.1×10^{-4} | 758×10^{-6} |
| - 2,278 | 160 | - 9.8×10^{-4} | 950×10^{-6} |

Table A.24

Biaxial stress-strain relation after 28 days

(c) Failure load: $\sigma_1 = 267$ psi, $\sigma_3 = -2,111$ psi

| Compression Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Longitudinal Strain ϵ_3 (in/in) | Transverse Strain ϵ_1 (in/in) |
|---|---------------------------------------|--|--|
| - 111 | 14 | 2.3×10^{-5} | 4.7×10^{-6} |
| - 222 | 28 | 4.7×10^{-5} | 4.7×10^{-6} |
| - 333 | 43 | 9.3×10^{-5} | 5.2×10^{-6} |
| - 444 | 55 | 9.6×10^{-5} | 5.8×10^{-6} |
| - 555 | 70 | 1.0×10^{-4} | 6×10^{-6} |
| - 666 | 85 | 1.3×10^{-4} | 6×10^{-6} |
| - 777 | 98 | 1.6×10^{-4} | 39×10^{-6} |
| - 888 | 113 | 1.9×10^{-4} | 63×10^{-6} |
| - 1,000 | 126 | 2.1×10^{-4} | 86×10^{-6} |
| - 1,111 | 140 | 2.4×10^{-4} | 112×10^{-6} |
| -1,222 | 155 | 2.8×10^{-4} | 218×10^{-6} |
| - 1,333 | 168 | 3.2×10^{-4} | 328×10^{-6} |
| - 1,389 | 175 | 3.3×10^{-4} | 330×10^{-6} |
| - 1,444 | 183 | 3.5×10^{-4} | 385×10^{-6} |
| - 1,666 | 211 | 4.6×10^{-4} | 400×10^{-6} |
| - 2,111 | 267 | 9×10^{-4} | 420×10^{-6} |

Table A.25

Biaxial relation after 90 days

(a) Failure: $\sigma_1 = 290$ psi, $\sigma_3 = 2,222$ psi

| Compression Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Longitudinal Strain ϵ_3 (μ st.) | Transverse Strain ϵ_1 (μ st.) |
|---|---------------------------------------|---|---|
| - 222 | 0 | - 43.0 | 7.8 |
| - 444 | 0 | - 78.6 | 14.1 |
| - 666 | 0 | - 138.2 | 26.0 |
| - 889 | 0 | - 250.6 | 47.6 |
| - 1,111 | 0 | - 342.6 | 65.1 |
| - 1,333 | 0 | - 363.6 | 72.7 |
| - 1,555 | 0 | - 451.6 | 95.6 |
| - 1,778 | 0 | - 553.6 | 116.2 |
| - 2,000 | 0 | - 603.2 | 132.7 |
| - 2,111 | 0 | - 662.7 | 134.7 |
| - 2,222 | 0 | - 680.2 | 150.7 |
| - 2,222 | 53 | - 696.3 | 160.8 |
| - 2,222 | 107 | - 720.3 | 198.6 |
| - 2,222 | 160 | - 746.3 | 224.0 |
| - 2,222 | 214 | - 755.6 | 241.6 |
| - 2,222 | 267 | - 776.3 | 266.7 |
| - 2,222 | 290 | - 785.6 | 282.8 |

Table A.25

Biaxial relation after 90 days

(b) Failure: $\sigma_1 = 381$ psi, $\sigma_3 = -1,778$ psi

| Compression Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Longitudinal Strain ϵ_3 (μ st.) | Transverse Strain ϵ_1 (μ st.) |
|---|---------------------------------------|---|---|
| - 222 | 0 | - 53.0 | 10.3 |
| - 444 | 0 | - 87.8 | 17.2 |
| - 666 | 0 | - 147.3 | 32.1 |
| - 889 | 0 | - 252.0 | 47.3 |
| - 1,111 | 0 | - 345.6 | 63.2 |
| - 1,333 | 0 | - 397.8 | 87.5 |
| - 1,555 | 0 | - 473.2 | 108.6 |
| - 1,667 | 0 | - 520.1 | 120.2 |
| - 1,778 | 0 | - 582.7 | 140.3 |
| - 1,778 | 53.5 | - 593.6 | 165.3 |
| - 1,778 | 107.0 | - 605.2 | 185.7 |
| - 1,778 | 160.6 | - 627.3 | 209.3 |
| - 1,778 | 214.2 | - 635.7 | 230.0 |
| - 1,778 | 267.7 | - 655.1 | 252.0 |
| - 1,778 | 321.2 | - 670.0 | 272.6 |
| - 1,778 | 348.0 | - 691.0 | 286.8 |
| - 1,778 | 374.8 | - 702.0 | 300.2 |
| - 1,778 | 381.0 | - 716.2 | 305.6 |

Table A.25

Biaxial relation after 90 days

(c) Failure: $\sigma_1 = 426$ psi, $\sigma_3 = -1,345$ psi

| Compression Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Longitudinal Strain ϵ_3 (μ st.) | Transverse Strain ϵ_1 (μ st.) |
|---|---------------------------------------|---|---|
| - 222 | 0 | - 65.3 | 10.4 |
| - 444 | 0 | - 92.6 | 15.6 |
| - 666 | 0 | - 132.3 | 23.1 |
| - 889 | 0 | - 246.7 | 44.3 |
| - 1,111 | 0 | - 332.0 | 66.4 |
| - 1,222 | 0 | - 357.2 | 82.3 |
| - 1,333 | 0 | - 382.6 | 87.6 |
| - 1,345 | 0 | - 432.1 | 103.6 |
| - 1,345 | 53.5 | - 442.6 | 115.7 |
| - 1,345 | 160.6 | - 463.5 | 145.3 |
| - 1,345 | 214.2 | - 478.3 | 163.2 |
| - 1,345 | 321.2 | - 500.0 | 197.7 |
| - 1,345 | 374.8 | - 531.6 | 224.8 |
| - 1,345 | 402.6 | - 554.7 | 238.5 |
| - 1,345 | 426.0 | 572.0 | 250.8 |

Table A.26

Stress-strain relation of patched specimens subjected to compression-tension

(a) Transition patch of $d = 2''$ ($\sigma_1/\sigma_3 = -0.28$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| - 200 | 50 | - 50 |
| - 400 | 100 | - 100 |
| - 600 | 150 | - 310 |
| - 700 | 200 | - 380 |
| - 800 | 220 | - 450 |
| - 900 | 250 | - 500 |
| - 1,000 | 280 | - 560 |
| - 1,100 | 300 | - 680 |
| - 1,200 | 330 | - 750 |

(b) Rectangular patch of $d = 2''$ ($\sigma_1/\sigma_3 = -0.28$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| - 200 | 50 | - 80 |
| - 400 | 100 | - 163 |
| - 600 | 150 | - 281 |
| - 700 | 200 | - 327 |
| - 800 | 220 | - 430 |
| - 900 | 250 | - 476 |
| - 1,000 | 280 | - 602 |
| - 1,100 | 310 | - 723 |

Table A.26

Stress-strain relation of patched specimens subjected to compression-tension

(c) Transition patch of $d = 7''$ ($\sigma_1/\sigma_3 = -0.28$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| - 200 | 50 | - 100 |
| - 400 | 100 | - 210 |
| - 600 | 150 | - 380 |
| - 700 | 200 | - 410 |
| - 800 | 210 | - 500 |
| - 900 | 260 | - 580 |
| - 1,000 | 285 | - 700 |

(d) Rectangular patch of $d = 7''$ ($\sigma_1/\sigma_3 = -0.28$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| 200 | 50 | - 107 |
| 400 | 100 | - 242 |
| 500 | 130 | - 325 |
| 600 | 160 | - 361 |
| 700 | 200 | - 420 |
| 750 | 215 | - 460 |
| 800 | 240 | - 580 |
| 900 | 255 | - 662 |

Table A.26

Stress-strain relation of patched specimens subjected to compression-tension

(e) Transition patch of $d = 7''$ ($\sigma_1/\sigma_3 = -0.22$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| - 200 | 50 | - 70 |
| - 400 | 100 | - 165 |
| - 600 | 125 | - 290 |
| - 700 | 150 | - 335 |
| - 800 | 175 | - 400 |
| - 900 | 200 | - 485 |
| - 1,000 | 225 | - 600 |
| - 1,100 | 250 | - 625 |
| - 1,200 | 265 | - 735 |

(f) Transition patch of $d = 7''$ ($\sigma_1/\sigma_3 = -0.38$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| - 200 | 65 | - 115 |
| - 400 | 150 | - 305 |
| - 500 | 175 | - 360 |
| - 600 | 225 | - 460 |
| - 700 | 270 | - 515 |
| - 750 | 285 | - 608 |
| - 800 | 300 | - 668 |

Table A.27

Stress-strain relation of patched specimens subjected to compression-tension after 90 days

(a) Transition patch of $d = 7''$ ($\sigma_1/\sigma_3 = -0.28$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| - 100 | 30 | - 40 |
| - 300 | 85 | - 135 |
| - 500 | 130 | - 260 |
| - 600 | 173 | - 300 |
| - 800 | 225 | - 450 |
| - 900 | 255 | - 550 |
| - 1,000 | 290 | - 650 |
| - 1,100 | 320 | - 800 |

(b) Transition patch of $d = 7''$ ($\sigma_1/\sigma_3 = -0.38$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| - 100 | 35 | - 50 |
| - 200 | 75 | - 120 |
| - 400 | 150 | - 230 |
| - 500 | 190 | - 300 |
| - 600 | 230 | - 400 |
| - 650 | 250 | - 450 |
| - 700 | 265 | - 470 |
| - 800 | 300 | - 600 |
| - 860 | 325 | - 720 |

Table A.27

Stress-strain relation of patched specimens subjected to tension-compression after 90 days

(c) Rectangular patch of $d = 7''$ ($\sigma_1/\sigma_3 = -0.28$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| 200 | 60 | - 100 |
| 400 | 110 | - 225 |
| 500 | 140 | - 290 |
| 600 | 170 | - 350 |
| 700 | 200 | - 460 |
| 800 | 225 | - 520 |
| 900 | 250 | - 630 |
| 980 | 280 | - 680 |

Table A.28

Bond strength of the specimens of age 28 days

| Slant Shear (psi) | Direct Shear (psi) | Direct Tension (psi) |
|----------------------|-----------------------|-------------------------|
| 4,362 | 214 | 133 |
| 4,525 | 150 | 121 |
| 4,390 | 145 | 185 |
| 4,390 | 156 | 150 |
| 4,426 | 161 | 155 |
| 1,860 | 202 | 80 |
| 4,380 | 155 | 163 |
| 4,530 | 196 | 155 |
| 4,460 | 184 | 240 |
| 1,930 | 154 | 105 |
| 4,420 | 162 | 175 |
| 4,540 | 148 | 95 |
| 4,442 | 169 | 146.4 |

Table A.29

Bond strength of the specimens of age 90 days

| Slant Shear (psi) | Direct Shear (psi) | Direct Tension (psi) |
|----------------------|-----------------------|-------------------------|
| 1,481 | 196 | 145 |
| 5,422 | 185 | 96 |
| 5,008 | 195 | 183 |
| 5,100 | 203 | 135 |
| 4,950 | 187 | 135 |
| 1,380 | 193 | 188 |
| 5,230 | 163 | 150 |
| 4,930 | 154 | 165 |
| 5,370 | 173 | 153 |
| 1,395 | 182 | 82 |
| 4,870 | 148 | 193 |
| 5,000 | 128 | 190 |
| 5,100 | 175.6 | 151.2 |

Table A.30a

Failure modes from slant shear tests

| Age: 28 day | | Age: 90 day | |
|----------------|-----------------|----------------|-----------------|
| Strength (psi) | Failure Mode | Strength (psi) | Failure Mode |
| 4,362 | Patch concrete | 1,481 | Bond |
| 4,525 | Parent concrete | 5,422 | Parent concrete |
| 4,390 | Patch concrete | 5,008 | Patch concrete |
| 4,390 | Patch concrete | 5,100 | Parent concrete |
| 4,426 | Parent concrete | 4,950 | Patch concrete |
| 1,860 | Bond | 1,380 | Bond |
| 4,380 | Patch concrete | 5,230 | Parent concrete |
| 4,530 | Parent concrete | 4,930 | Patch concrete |
| 4,460 | Parent concrete | 5,370 | Patch concrete |
| 1,930 | Bond | 1,395 | Bond |
| 4,420 | Patch concrete | 4,870 | Patch concrete |
| 4,540 | Parent concrete | 5,000 | Patch concrete |

Table A.30b

Failure modes from direct tension tests

| Age: 28 day | | Age: 90 day | |
|----------------|-----------------|----------------|-----------------|
| Strength (psi) | Failure Mode | Strength (psi) | Failure Mode |
| 133 | Patch concrete | 145 | Patch concrete |
| 121 | Patch concrete | 96 | Bond |
| 185 | Parent concrete | 183 | Parent concrete |
| 150 | Patch concrete | 135 | Patch concrete |
| 155 | Patch concrete | 135 | Patch concrete |
| 80 | Bond | 188 | Parent concrete |
| 163 | Patch concrete | 150 | Patch concrete |
| 155 | Patch concrete | 165 | Patch concrete |
| 240 | Parent concrete | 153 | Patch concrete |
| 105 | Bond | 82 | Bond |
| 175 | Parent concrete | 193 | Parent concrete |
| 95 | Bond | 190 | Parent concrete |

Table A.31

Failure load and shear stress of repaired joint after 28 days

| Type of Specimen | Failure Load (lb) | Shear Stress $v = 1.5 V/A$ | Average Load (lb) | Average Shear (psi) |
|-----------------------|-------------------|----------------------------|-------------------|---------------------|
| Non-patched | 14,850 | 520 | 16,870 | 590 |
| | 18,400 | 644 | | |
| | 17,360 | 608 | | |
| Transition of d = 2" | 15,620 | 547 | 13,230 | 463 |
| | 13,858 | 485 | | |
| | 10,212 | 357 | | |
| Transition of d = 4" | 10,890 | 381 | 11,620 | 407 |
| | 12,300 | 430 | | |
| | 11,670 | 408 | | |
| Transition of d = 6" | 11,350 | 397 | 8,432 | 295 |
| | 8,020 | 281 | | |
| | 5,925 | 208 | | |
| Rectangular of d = 2" | 10,280 | 360 | 12,950 | 453 |
| | 14,630 | 512 | | |
| | 13,940 | 488 | | |
| Rectangular of d = 4" | 9,860 | 345 | 10,500 | 368 |
| | 12,370 | 433 | | |
| | 9,270 | 324 | | |
| Rectangular d = 6" | 7,930 | 277 | 8,130 | 285 |
| | 10,250 | 358 | | |
| | 6,210 | 217 | | |

Table A.32

Failure load and shear stress of repaired joint after 90 days

| Specimen | Failure Load (lb) | Shear Stress $v = 1.5 V/A$ | Average Load (lb) | Average Shear (psi) |
|-------------------------|-------------------|----------------------------|-------------------|---------------------|
| Non-Patched | 15,340 | 537 | 17,300 | 605 |
| | 18,150 | 635 | | |
| | 18,400 | 645 | | |
| Transition of $d = 4"$ | 11,320 | 396 | 12,356 | 433 |
| | 13,500 | 473 | | |
| | 12,250 | 429 | | |
| Rectangular of $d = 4"$ | 10,300 | 360 | 11,520 | 403 |
| | 13,150 | 460 | | |
| | 11,110 | 390 | | |

Table A.33

Load-strain response of pavement joint of age 28 days

(a) Non-patched specimen

| Load (lb) | Strain at the Following Locations (μ st.) | | | | | |
|--------------|--|--------|------|--------|-------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 2,000 | 0.0 | 0.0 | 0.0 | 0.0 | - 15 | 13 |
| 4,000 | 1.0 | - 1.0 | 3.2 | - 2.5 | - 33 | 27 |
| 6,000 | 1.5 | - 1.3 | 4.3 | - 3.2 | - 50 | 48 |
| 8,000 | 3.0 | - 2.8 | 5.6 | - 4.4 | - 65 | 57 |
| 10,000 | 3.5 | - 3.1 | 7.3 | - 5.6 | - 135 | 128 |
| 12,000 | 13.2 | - 15.0 | 12.2 | - 11.5 | - 145 | 130 |
| 13,000 | 33.8 | - 36.1 | 37.8 | - 35.6 | - 153 | 148 |
| 14,000 | 44.6 | - 38.3 | 44.6 | - 43.7 | - 182 | 173 |
| 15,000 | 56.1 | - 46.5 | 48.3 | - 47.7 | - 197 | 182 |
| 16,000 | 69.1 | - 59.6 | 91.8 | - 90.8 | - 203 | 208 |
| 16,870 | 85.0 | - 76.3 | 105 | - 108 | - 255 | 243 |

Table A.33

Load-strain response of pavement joint of age 28 days

(b) Transition patch of $d = 6''$

| Load (lb) | Strain at (μ str.) | | | | | |
|--------------|-------------------------|--------|------|--------|--------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 2,000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,000 | 3.0 | - 2.8 | 6.2 | - 8.1 | - 12.2 | 11.3 |
| 5,000 | 6.5 | -5.9 | 11.8 | - 9.6 | - 35.6 | 40.2 |
| 6,000 | 12.7 | - 14.6 | 38.7 | - 28.6 | - 50.1 | 46.3 |
| 7,000 | 32.0 | - 30.1 | 43.2 | - 38.7 | - 102 | 96.7 |
| 8,000 | 48.7 | - 43.2 | 81.6 | - 82.6 | - 187 | 178 |
| 8,432 | 61.3 | - 58.3 | 93.7 | - 87.7 | - 196 | 192 |

(c) Rectangular patch of $d = 6''$

| Load (lb) | Strain at the Following Locations (μ str.) | | | | | |
|--------------|---|--------|------|--------|--------|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 2,000 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 10.0 |
| 4,000 | 5.0 | - 3.2 | 8.6 | - 8.0 | - 15 | 15 |
| 5,000 | 8.6 | - 7.8 | 16.2 | - 14.1 | - 38 | - 40.1 |
| 6,000 | 25.3 | 21.2 | 33.1 | - 30 | - 57.1 | 51.6 |
| 7,000 | 40.2 | - 37.2 | 48.2 | - 45 | - 102 | 87.1 |
| 8,000 | 56.7 | 49.3 | 82.6 | - 80.2 | - 176 | 182 |
| 8,130 | 59.2 | - 57.2 | 86.3 | - 84.1 | - 188 | 193 |

Table A.34

Load-strain response of pavement joint of age 90 days

| Load (lb) | Strain at point #4* (μ str.) | | |
|--------------|-----------------------------------|----------------------|-----------------------|
| | Non-Patched | Transition of d = 6" | Rectangular of d = 6" |
| 2,000 | 0.0 | 0.0 | 0.0 |
| 4,000 | 0.0 | 6.0 | - 6.5 |
| 5,000 | - 1.0 | - 7.3 | - 11.6 |
| 6,000 | - 1.3 | - 22.6 | - 25.9 |
| 7,000 | - 2.0 | - 35.1 | - 41.3 |
| 8,000 | - 2.5 | - 53.8 | - 76.5 |
| 8,800 | --- | --- | - 90.6 |
| 9,000 | - 3.7 | - 98.1 | |
| 9,200 | --- | - 102 | |
| 10,000 | - 4.3 | | |
| 12,000 | - 10.2 | | |
| 14,000 | - 28.1 | | |
| 16,000 | - 50.1 | | |
| 17,000 | - 121 | | |

*See Figure 7

Table A.35

Fresh plain and fiber concrete properties

| Property | Plain Concrete | Fiber Concrete |
|--------------------------------------|----------------|----------------|
| Slump (inch) | 3.25 | 2.75 |
| | 3.50 | 3.00 |
| | 3.50 | 2.25 |
| | 3.42 | 2.67 |
| Air Content (%) | 4.5 | 4.3 |
| | 5.0 | 4.8 |
| | 5.2 | 5.2 |
| | 4.9 | 4.8 |
| Unit Weight (lb/ft ³) | 142.4 | 145.6 |
| | 142.6 | 142.8 |
| | 140.4 | 145.0 |
| | 141.8 | 144.5 |

Table A.38

Uniaxial tension strength of the employed materials after 7 days

| Material | Average Tensile Strength (psi) |
|----------------|--------------------------------|
| Plain Concrete | 430 |
| Fiber Concrete | 516 |
| Duracal Cement | 465 |

Table A.39

Uniaxial tension stress-strain relations of the employed materials after 7 days

| Plain Concrete | | Fiber Concrete | | Duracal Cement | |
|----------------|----------------------|----------------|----------------------|----------------|----------------------|
| Stress (psi) | Strain (μ str.) | Stress (psi) | Strain (μ str.) | Stress (psi) | Strain (μ str.) |
| 100 | 15 | 50 | 7.5 | 100 | 17.5 |
| 200 | 30 | 80 | 17.5 | 150 | 24 |
| 250 | 38 | 170 | 30 | 200 | 40 |
| 300 | 70 | 270 | 52.5 | 250 | 52 |
| 350 | 80 | 315 | 60 | 300 | 63 |
| 400 | 100 | 390 | 85 | 350 | 75 |
| 450 | 123 | 410 | 105 | 400 | 110 |
| 455 | 150 | 450 | 110 | 475 | 160 |
| | | 490 | 145 | | |
| | | 525 | 183 | | |

Table A.40

Uniaxial compressive strength of the employed materials after 7 days

| Material | Average Compressive Strength (psi) |
|----------------|------------------------------------|
| Plain Concrete | 2,645 |
| Fiber Concrete | 2,775 |
| Duracal Cement | 3,032 |

Table A.41

Uniaxial compressive stress-strain relation of the employed material after 7 days

| Compressive Stress (psi) | Compressive Strain (μ str.) | | |
|--------------------------|----------------------------------|----------------|----------------|
| | Plain Concrete | Fiber Concrete | Duracal Cement |
| 222 | -18 | -45 | -52 |
| 444 | -26 | -55 | -70 |
| 666 | -38 | -60 | -120 |
| 888 | -53 | -60 | -120 |
| 1110 | -72 | -60 | -130 |
| 1332 | -112 | -150 | -240 |
| 1555 | -195 | -200 | -300 |
| 1776 | -260 | -220 | -375 |
| 1998 | -340 | -360 | -382 |
| 2220 | -485 | -465 | -510 |
| 2442 | -720 | -495 | -600 |
| 2610 | -1110 | --- | --- |
| 2664 | --- | -780 | -675 |
| 2795 | --- | -1230 | --- |
| 2886 | --- | --- | -810 |
| 2985 | --- | --- | -1150 |

Table A.44(c)

Stress-strain relation of duracal cement matrix to biaxial stress ($\sigma_1/\sigma_3 = -0.19$)

| Compressive Stress σ_3 (psi) | Tensile Stress σ_1 (psi) | Compressive Strain ϵ_3 (μ str.) |
|---|---------------------------------------|---|
| 200 | 39 | -60 |
| 445 | 87 | -115 |
| 665 | 130 | -165 |
| 880 | 170 | -185 |
| 1100 | 215 | -360 |
| 1320 | 256 | -450 |
| 1400 | 272 | -490 |
| 1480 | 288 | -660 |

Table A.44(d)

Stress-strain relations of the employed material subjected to biaxial tension-compression

| Compressive Stress (psi) | Tensile Stress (psi) | Compressive Strain (μ str.) | | |
|-----------------------------|-------------------------|----------------------------------|-------------------|-------------------|
| | | Plain Concrete | Fiber Concrete | Duracal Cement |
| 222 | 55 | -65 | -90 | -83 |
| 444 | 110 | -85 | -125 | -85 |
| 666 | 166 | -138 | -170 | -210 |
| 888 | 225 | -300 | -240 | -270 |
| 1060 | 300 | -480 | --- | --- |
| 1110 | 278 | --- | -330 | -420 |
| 1270 | 300 | --- | --- | -630 |
| 1332 | 335 | --- | -540 | --- |
| 1455 | 350 | --- | -720 | --- |

APPENDIX B

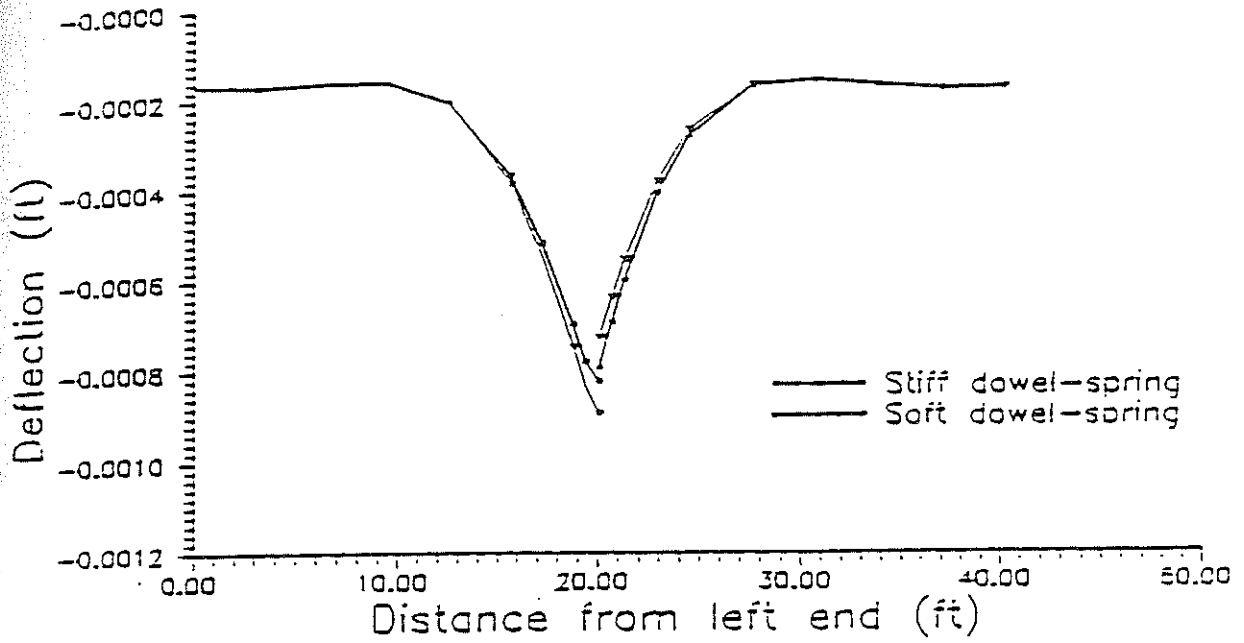


Figure B-1

Deflection profile along edge wheel path load type 1 - support condition 1 - load level 1

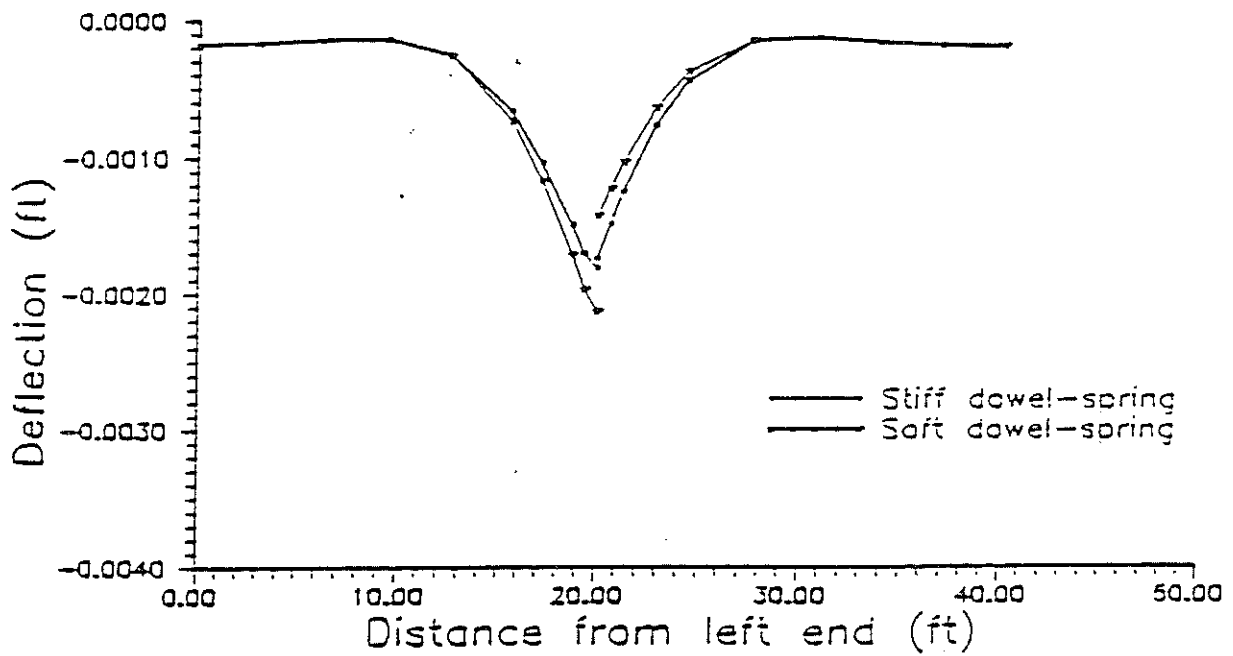


Figure B-2

Deflection profile along edge wheel path load type 1 - support condition 1 - load level 2

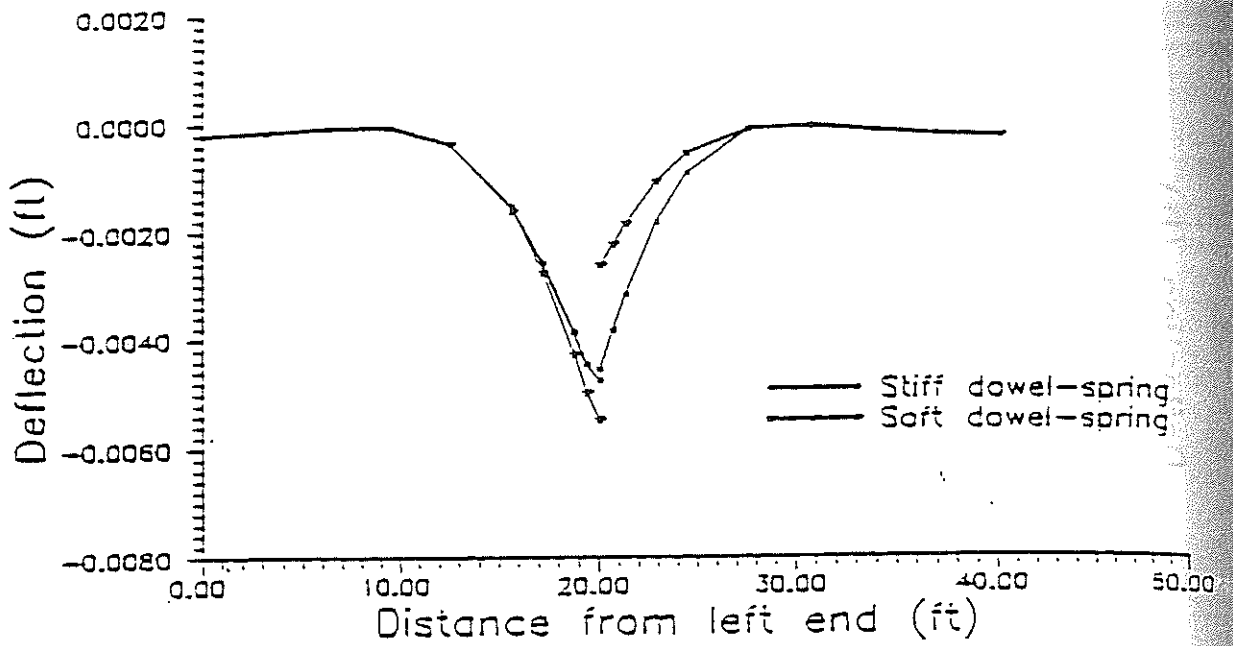


Figure B-3

Deflection profile along edge wheel path load type 1 - support condition 1 - load level 3

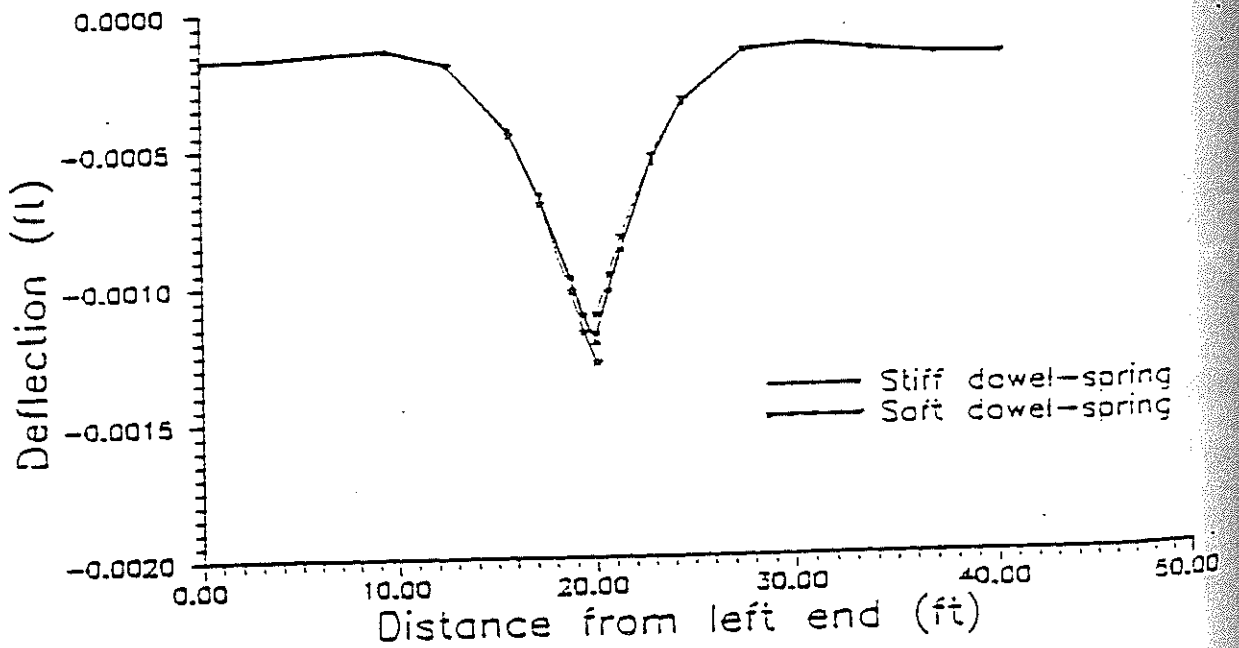


Figure B-4

Deflection profile along edge wheel path load type 1 - support condition 2 - load level 1

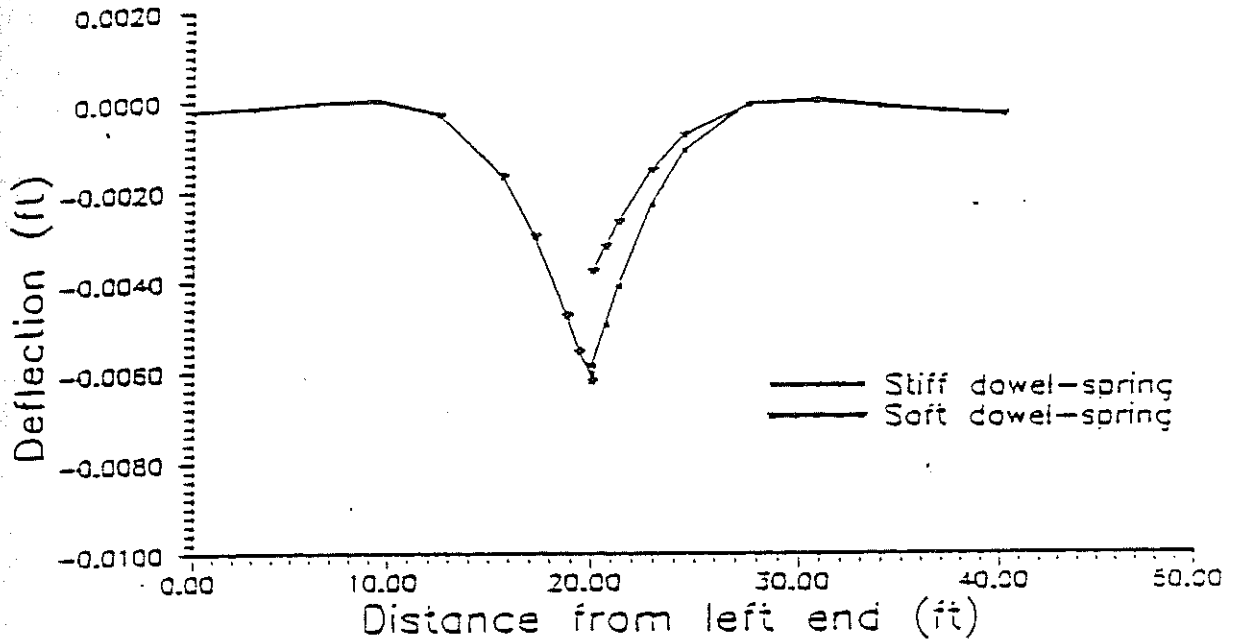


Figure B-5

Deflection profile along edge wheel path load type 1 - support condition 2 - load level 3

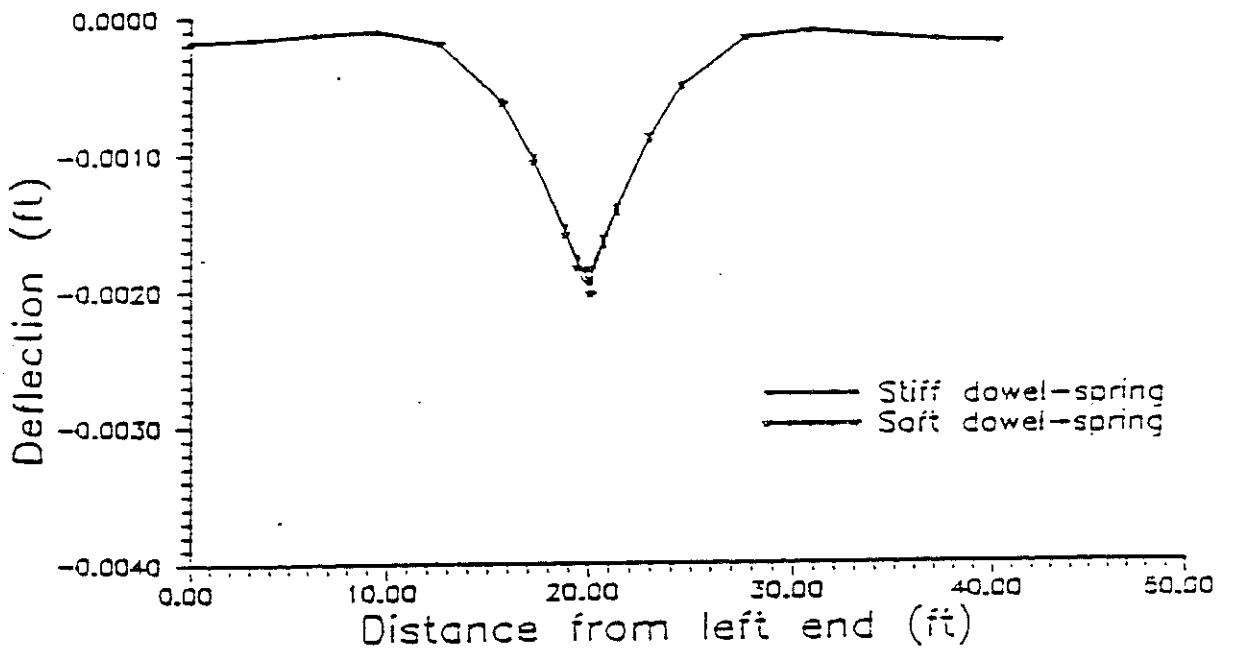


Figure B-6

Deflection profile along edge wheel path load type 1 - support condition 3 - load level 1

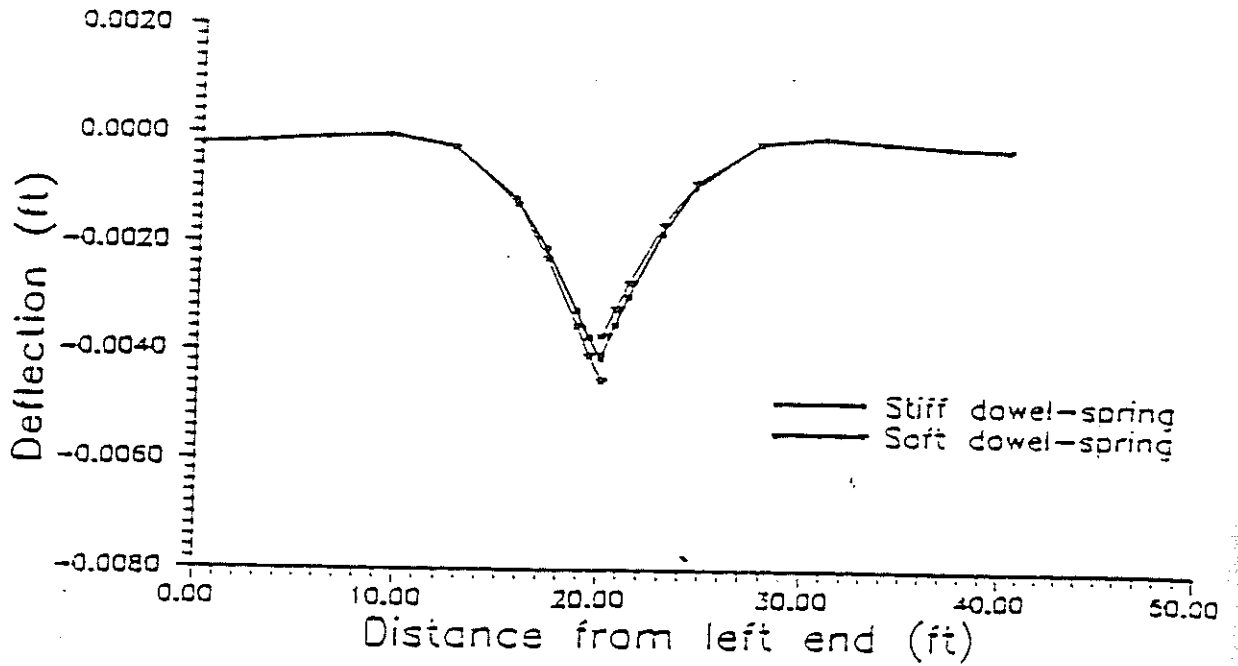


Figure B-7

Deflection profile along edge wheel path load type 1 - support condition 3 - load level 2

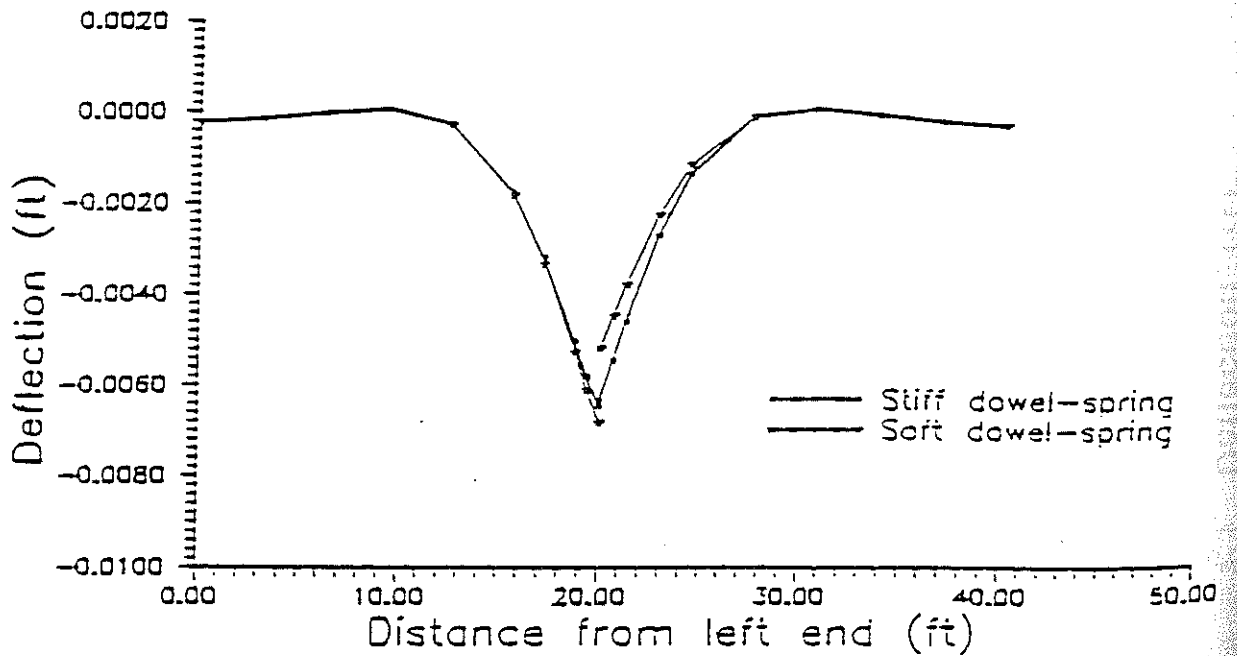
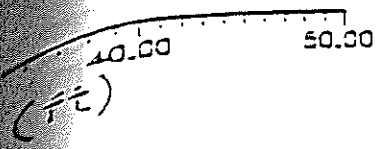


Figure B-8

Deflection profile along edge wheel path load type 1 - support condition 3 - load level 3

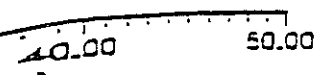
dowel-spring
dowel-spring

SUFF
SAFE



Condition 4 - load level 1

dowel-spring
dowel-spring



Condition 4 - load level 3

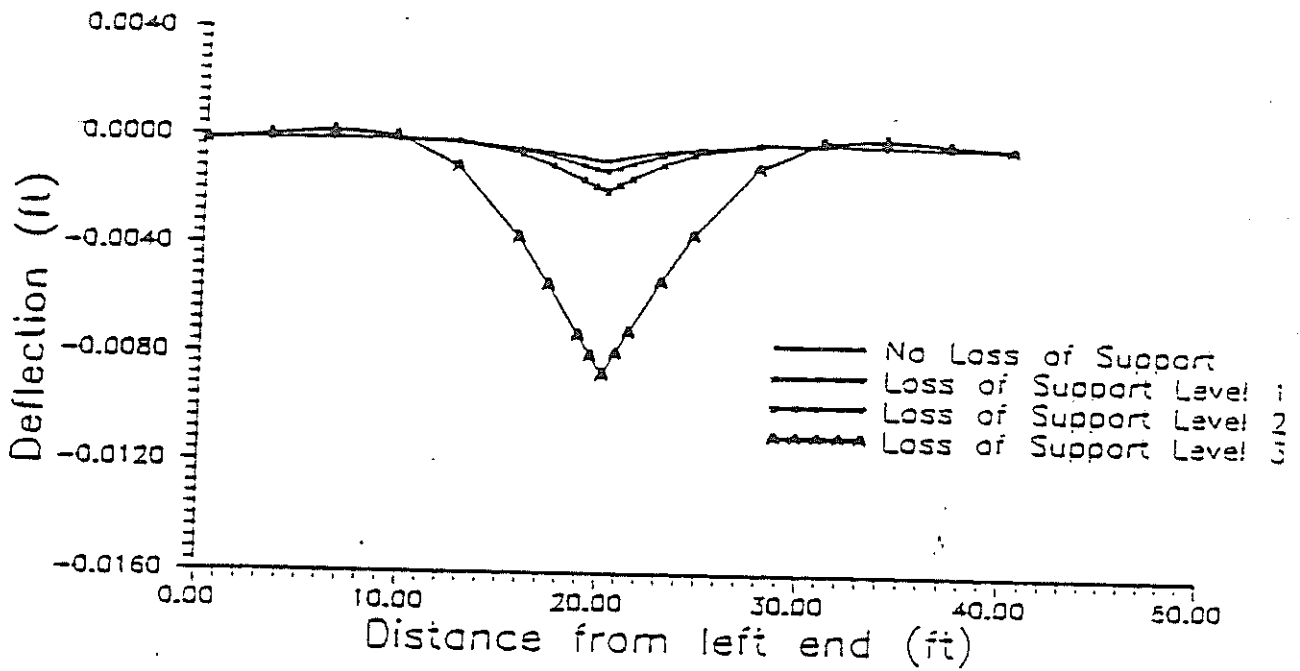


Figure B-11

Deflection profile along edge wheel path stiff dowel spring, load type 1, load level 1

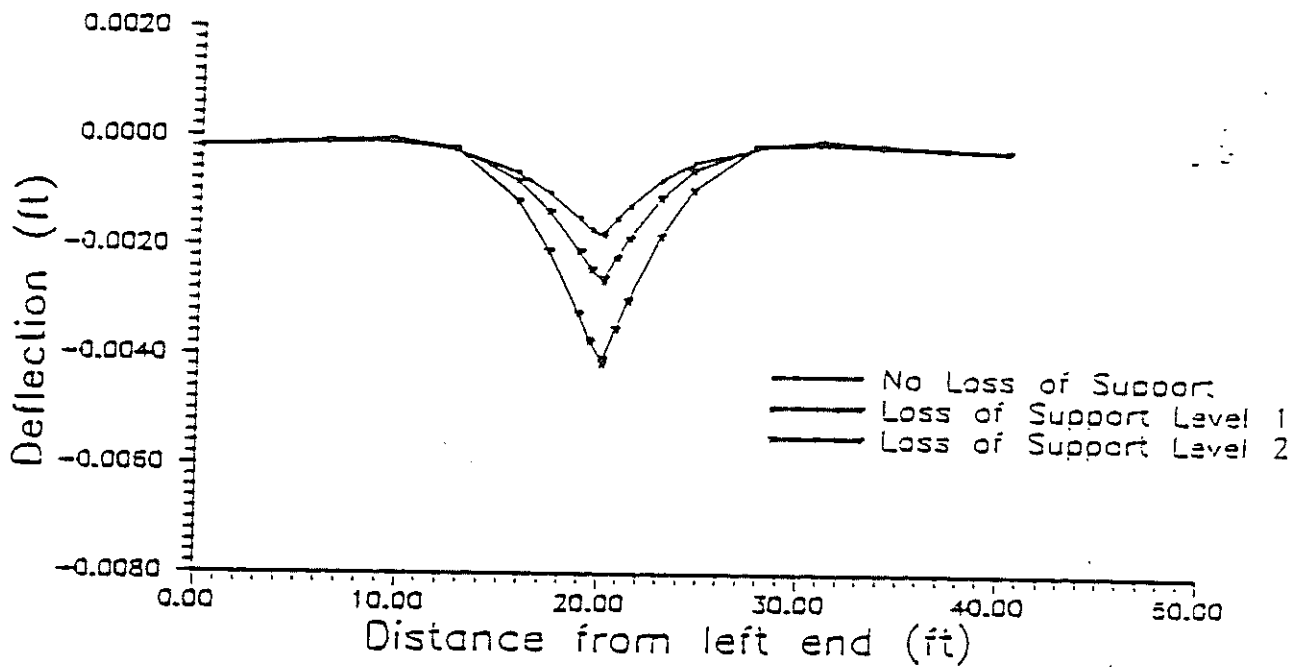


Figure B-12

Deflection profile along edge wheel path stiff dowel spring, load type 1, load level 2

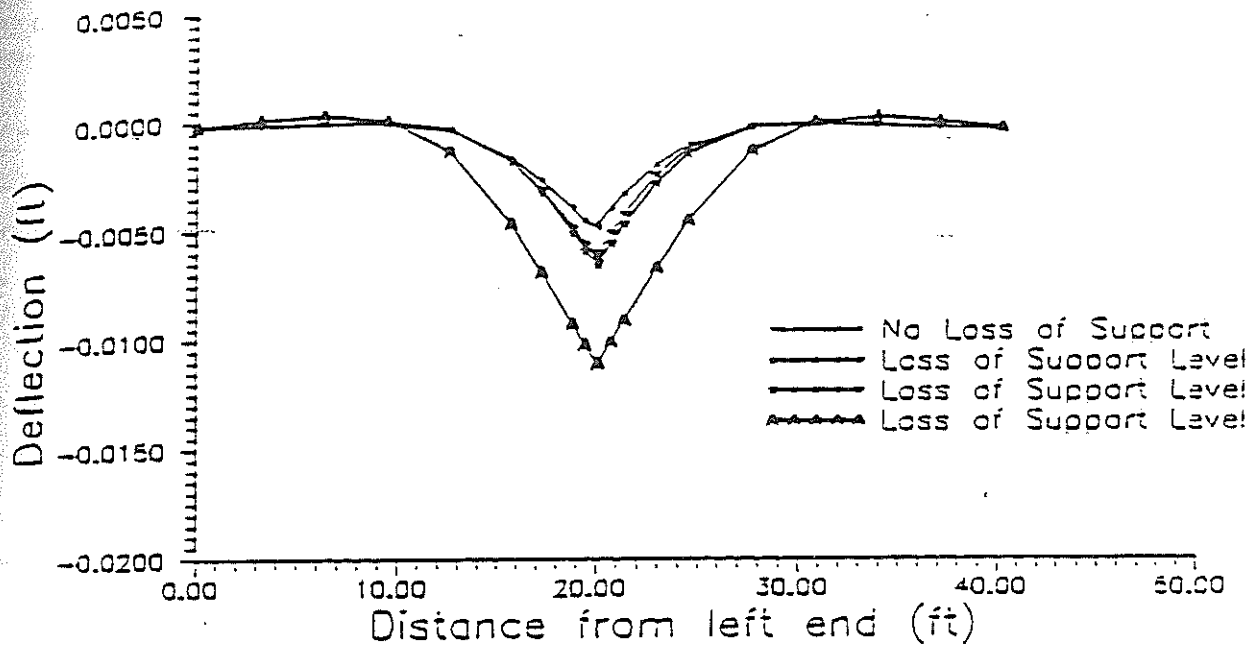


Figure B-13

Deflection profile along edge wheel path stiff dowel spring, load type 1, load level 3

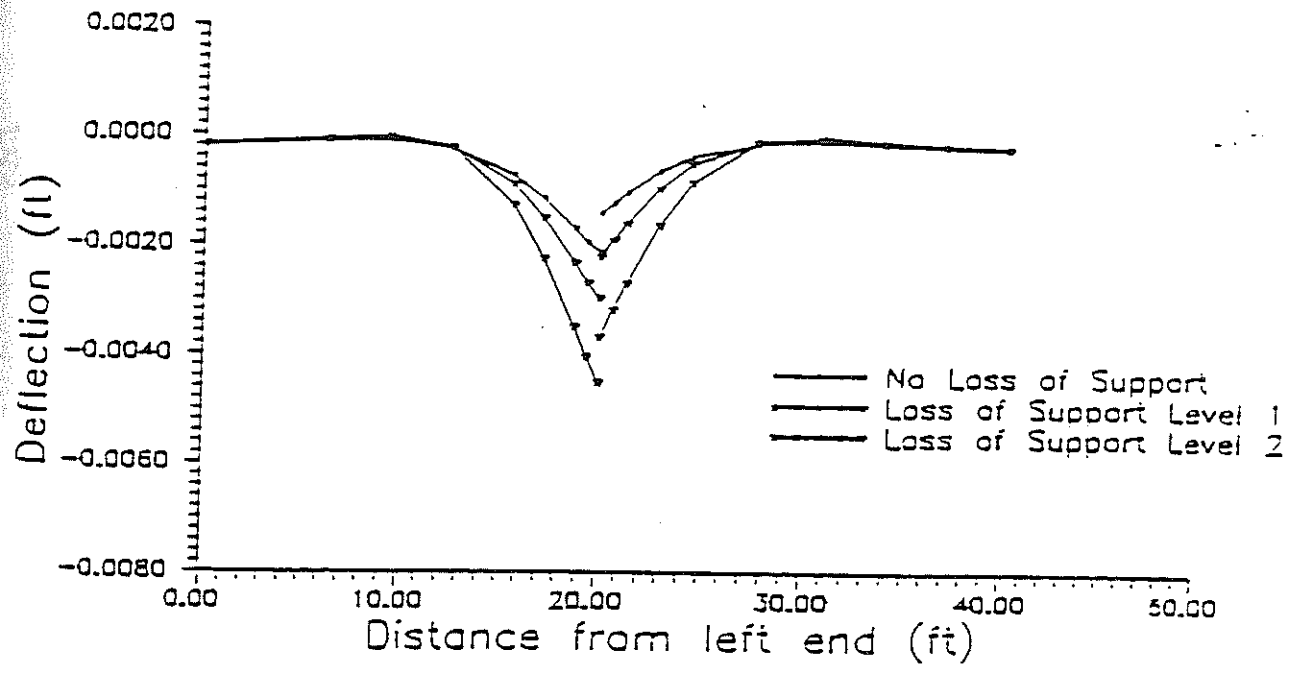


Figure B-14

Deflection profile along edge wheel path soft dowel spring, load type 1, load level 2

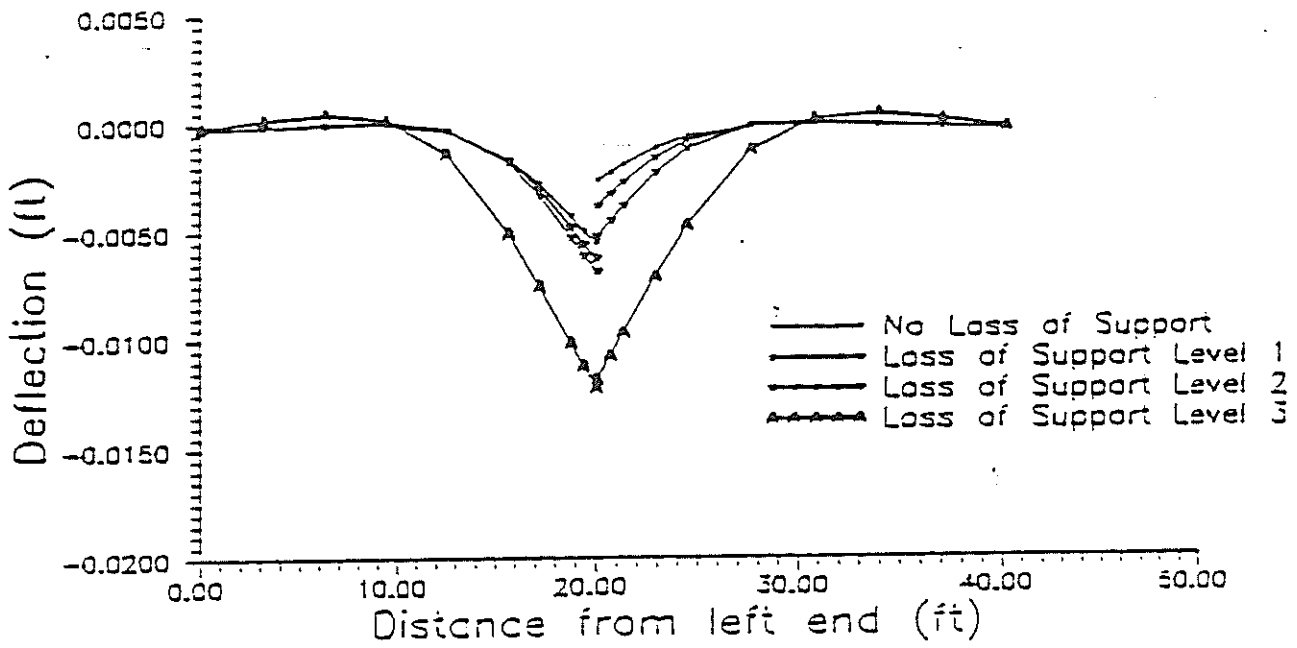


Figure B-15

Deflection profile along edge wheel path soft dowel spring, load type 1, load level 3

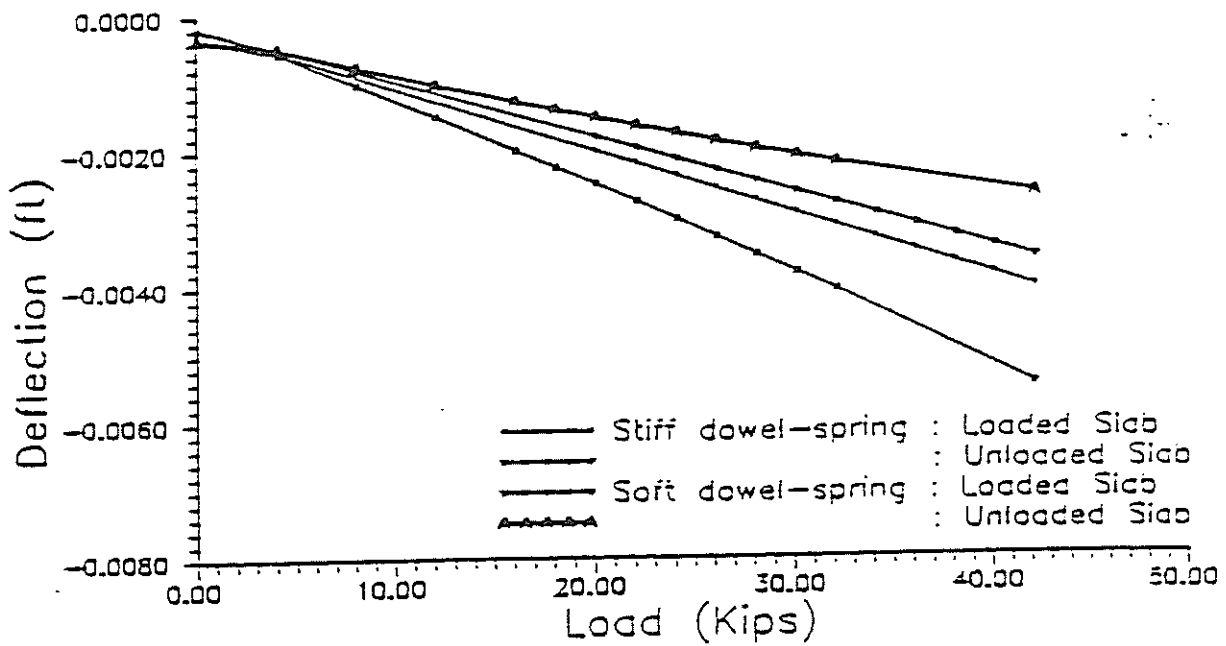


Figure B-16

Load vs. max. deflection curves for load type 1 - support condition 1

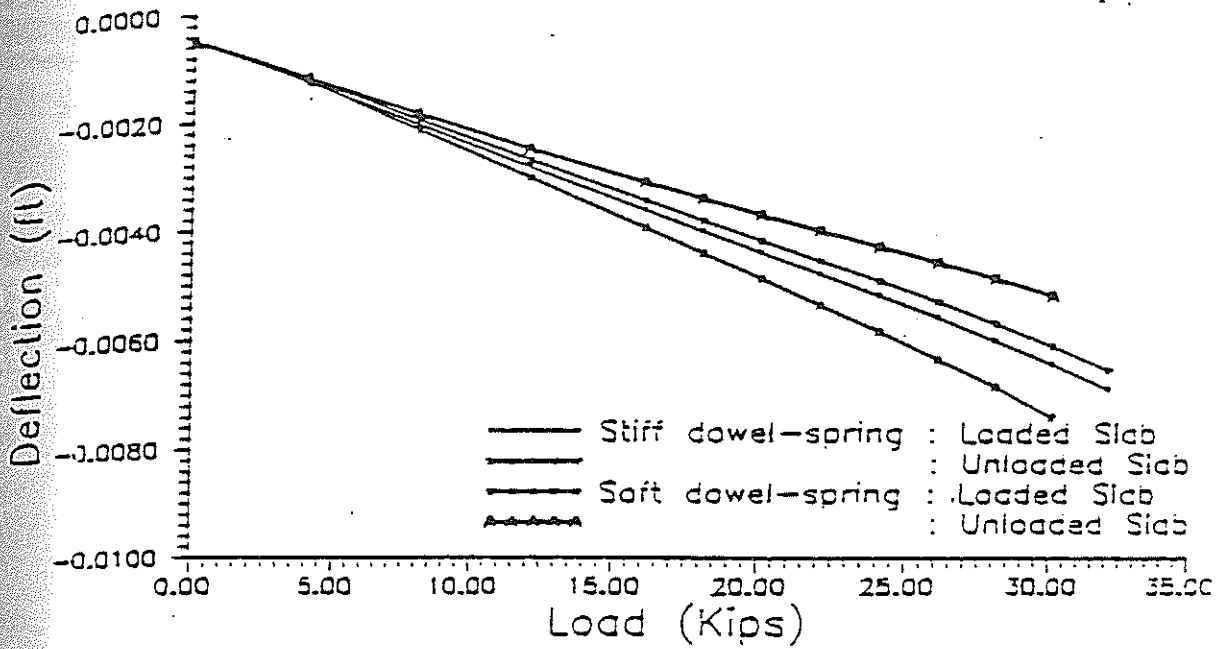


Figure B-17

Load vs. max. deflection curves for load type 1 - support condition 3

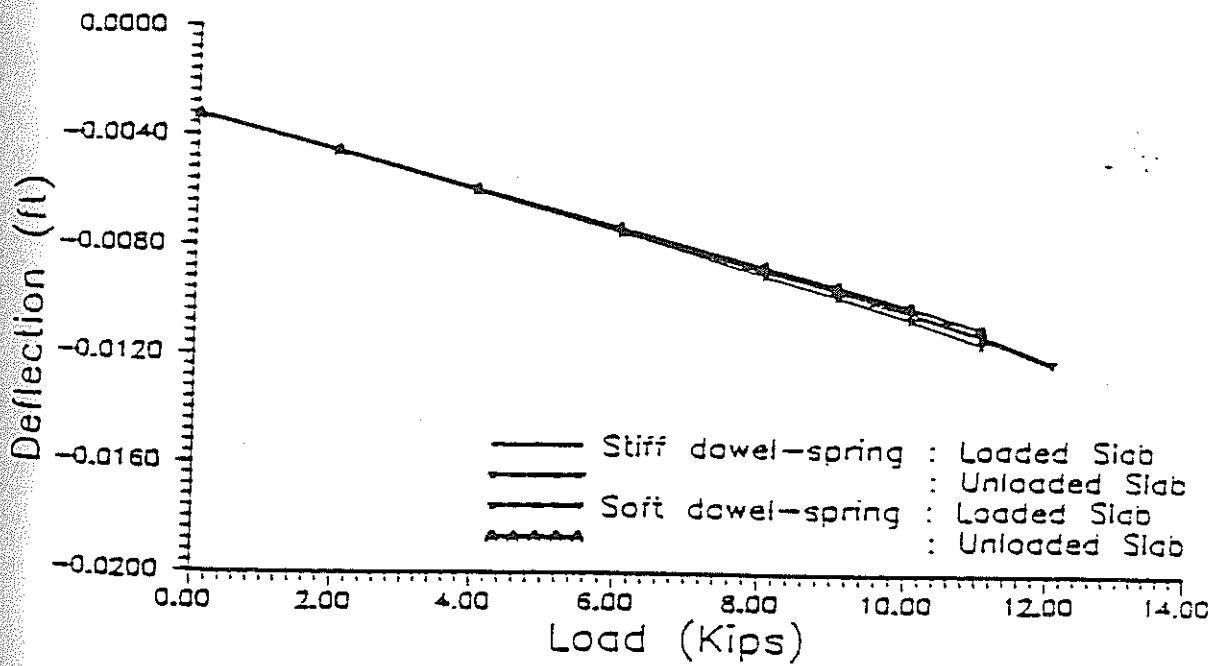


Figure B-18

Load vs. max. deflection curves for load type 1 - support condition 4

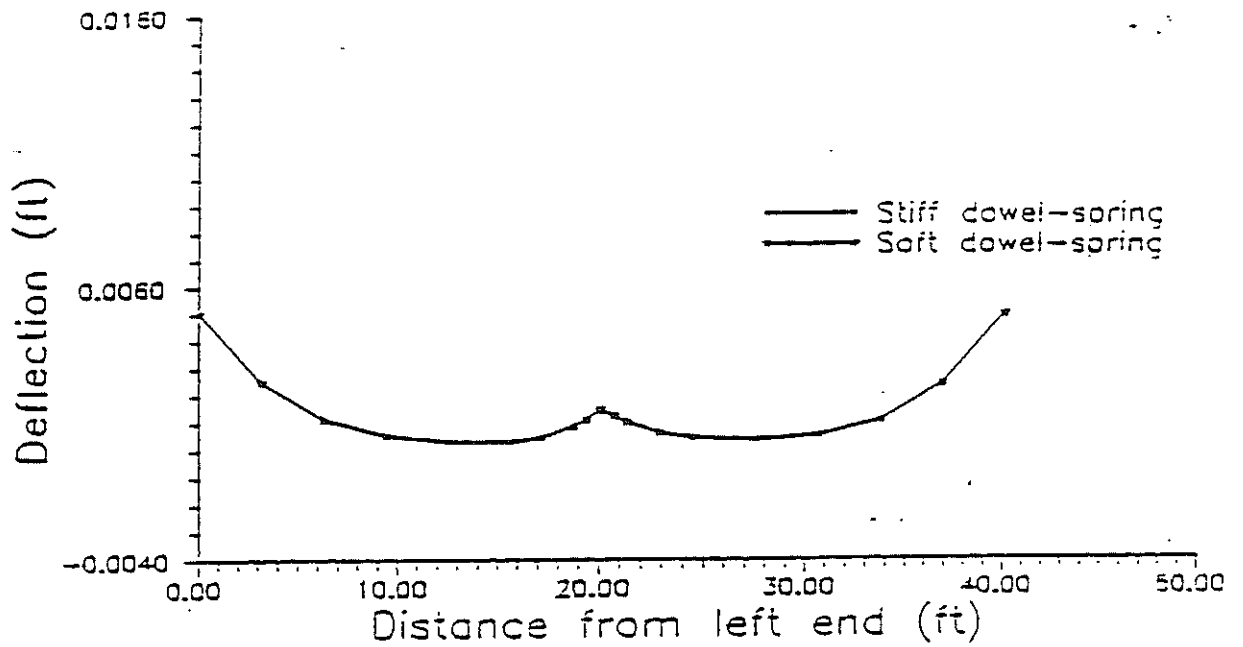


Figure B-19

Deflection profile along edge wheel path load type 2 - support condition 1 - load level 1

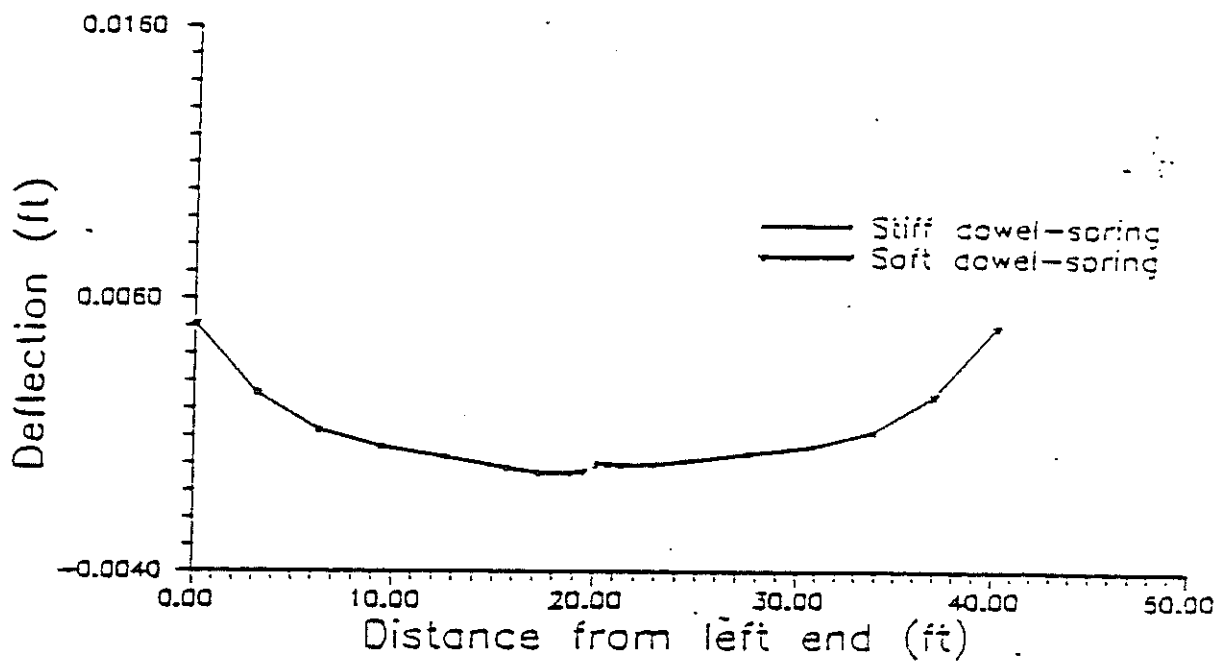


Figure B-20

Deflection profile along edge wheel path load type 2 - support condition 1 - load level 2

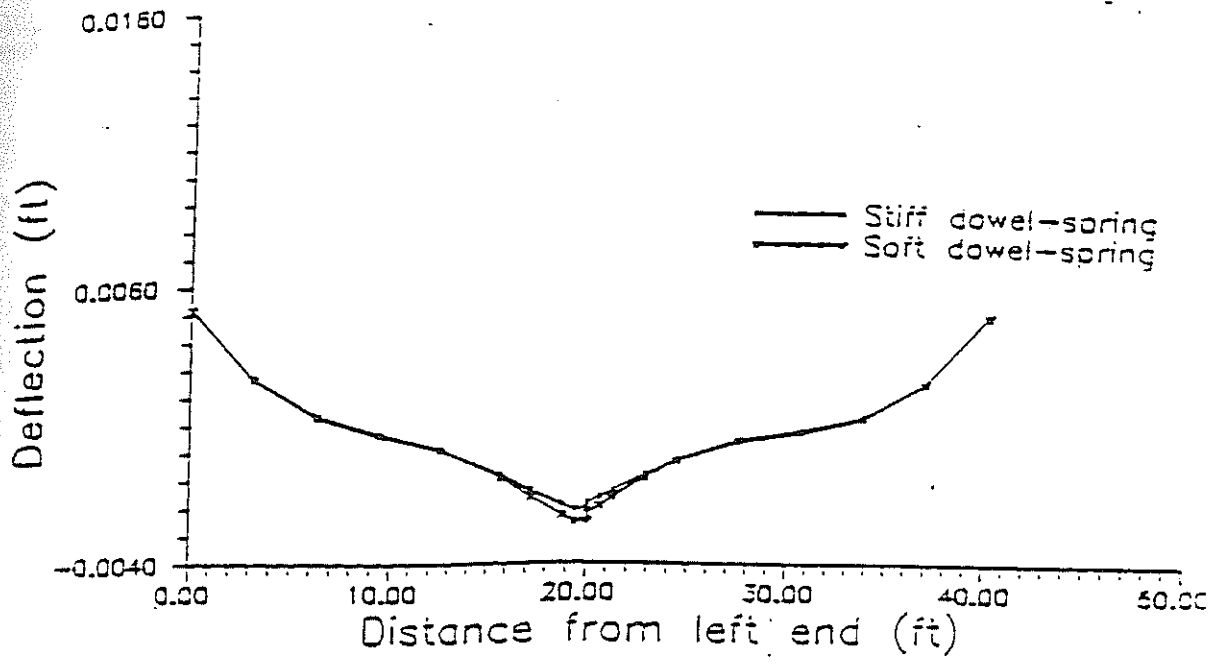


Figure B-21

Deflection profile along edge wheel path load type 2 - support condition 1 - load level 3

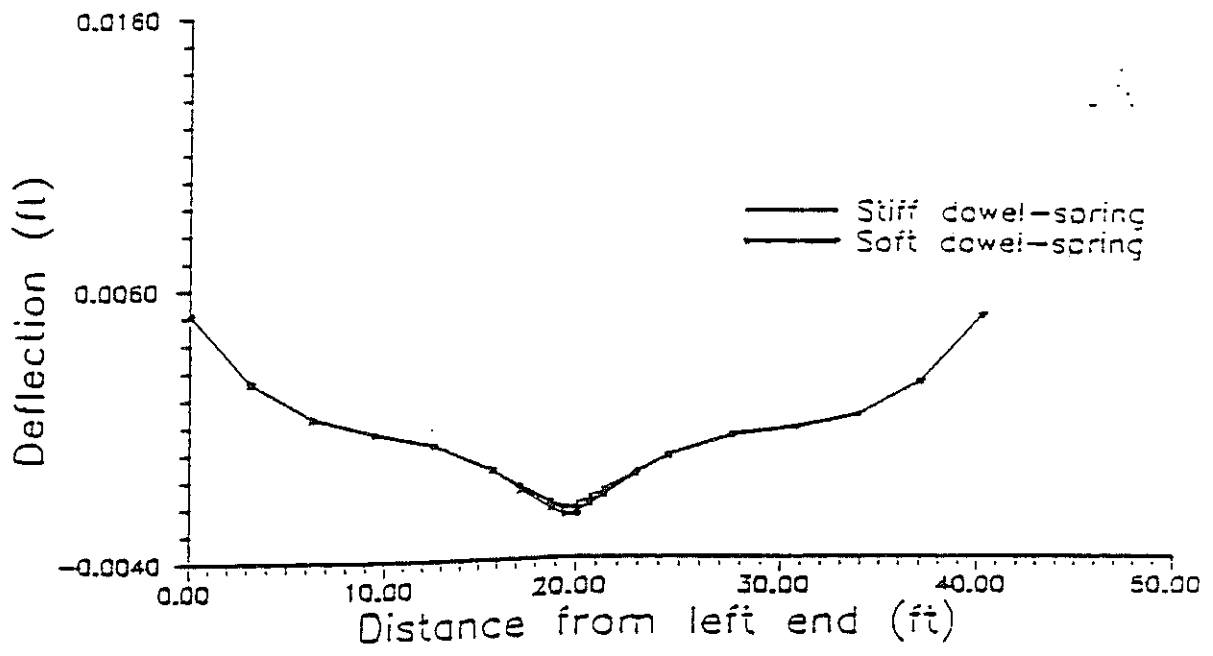


Figure B-22

Deflection profile along edge wheel path load type 2 - support condition 2 - load level 3

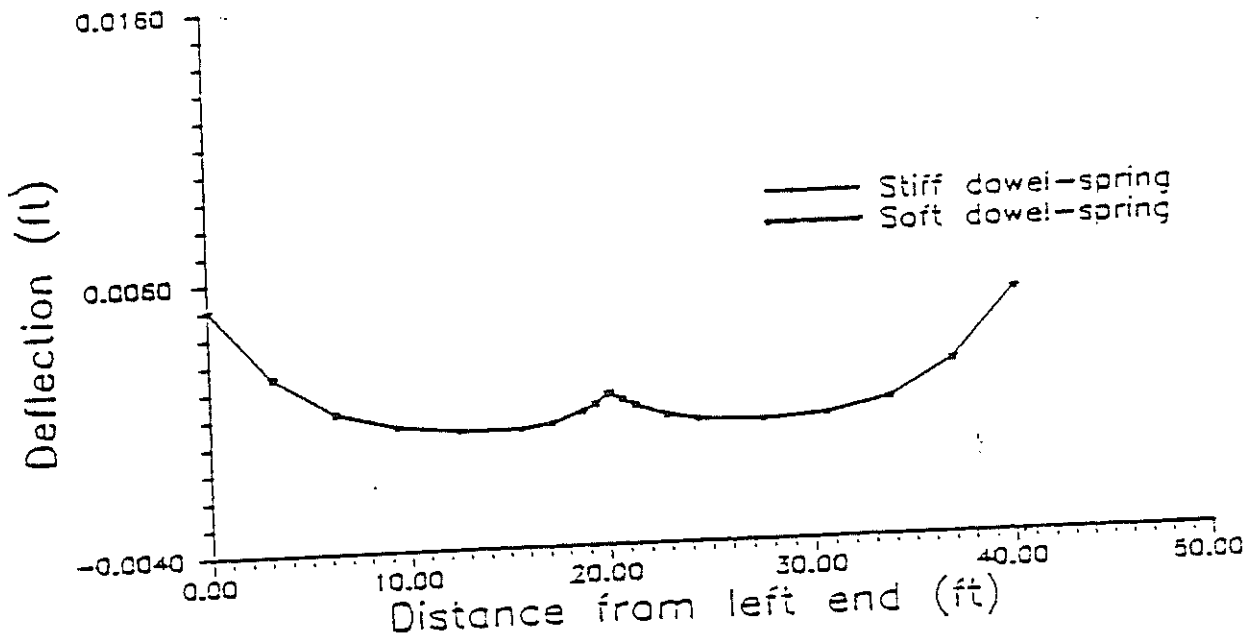


Figure B-23

Deflection profile along edge wheel path load type 2 - support condition 3 - load level 1

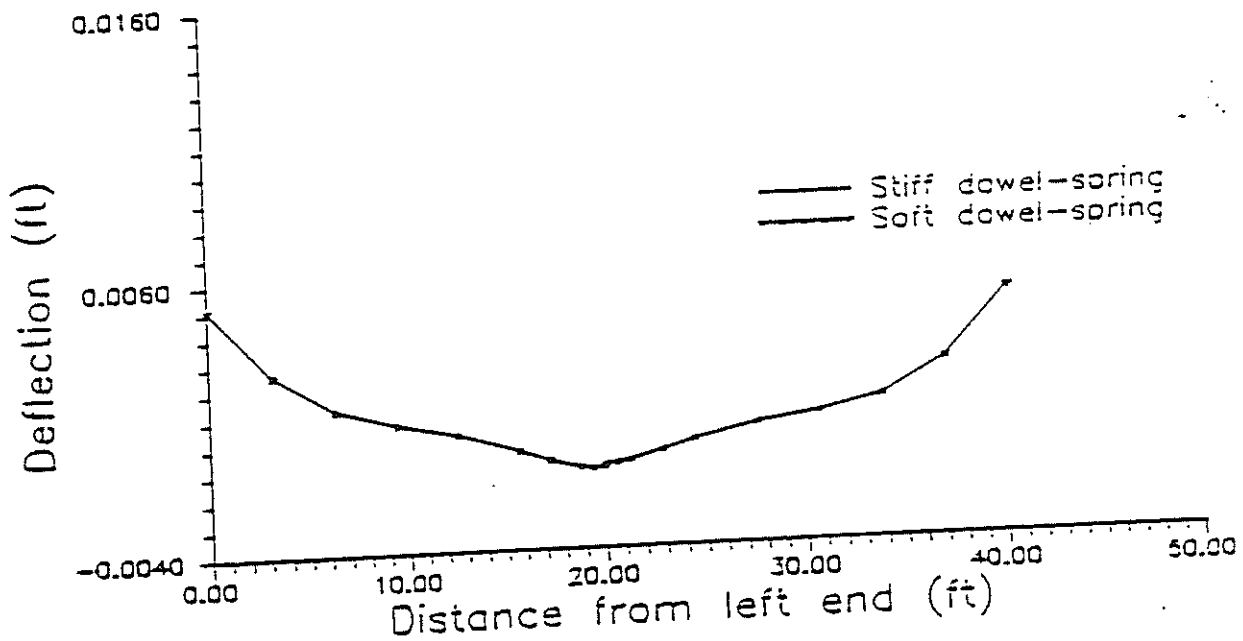


Figure B-24

Deflection profile along edge wheel path load type 2 - support condition 3 - load level 2

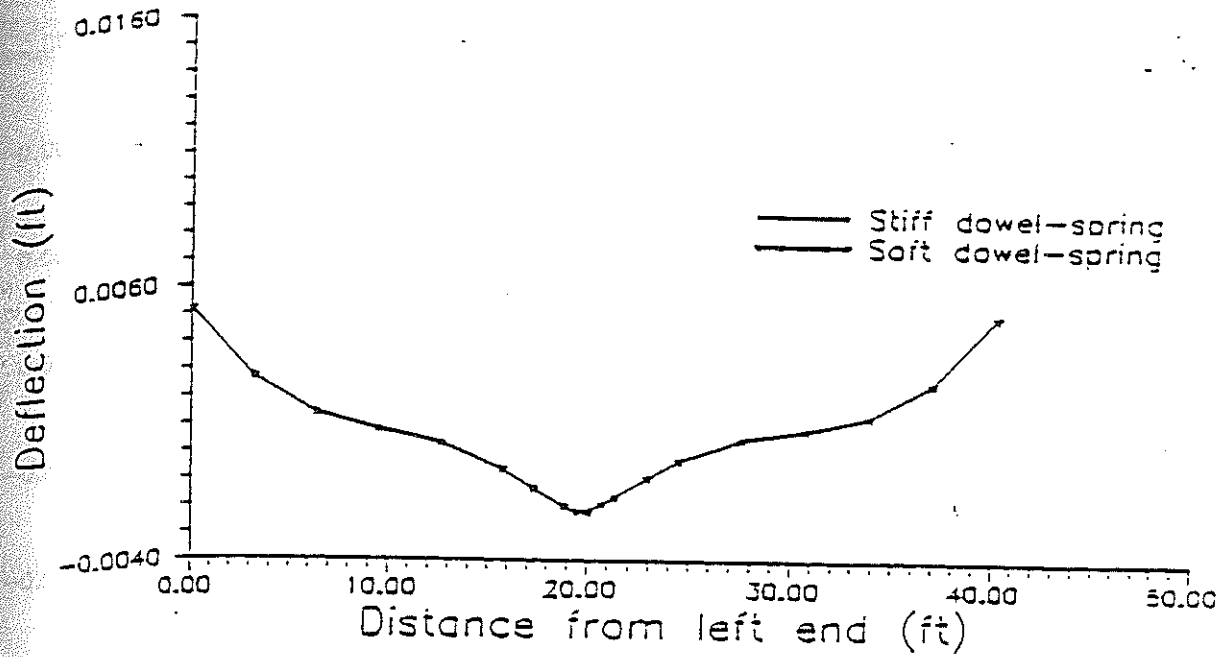


Figure B-25

Deflection profile along edge wheel path load type 2 - support condition 3 - load level 3

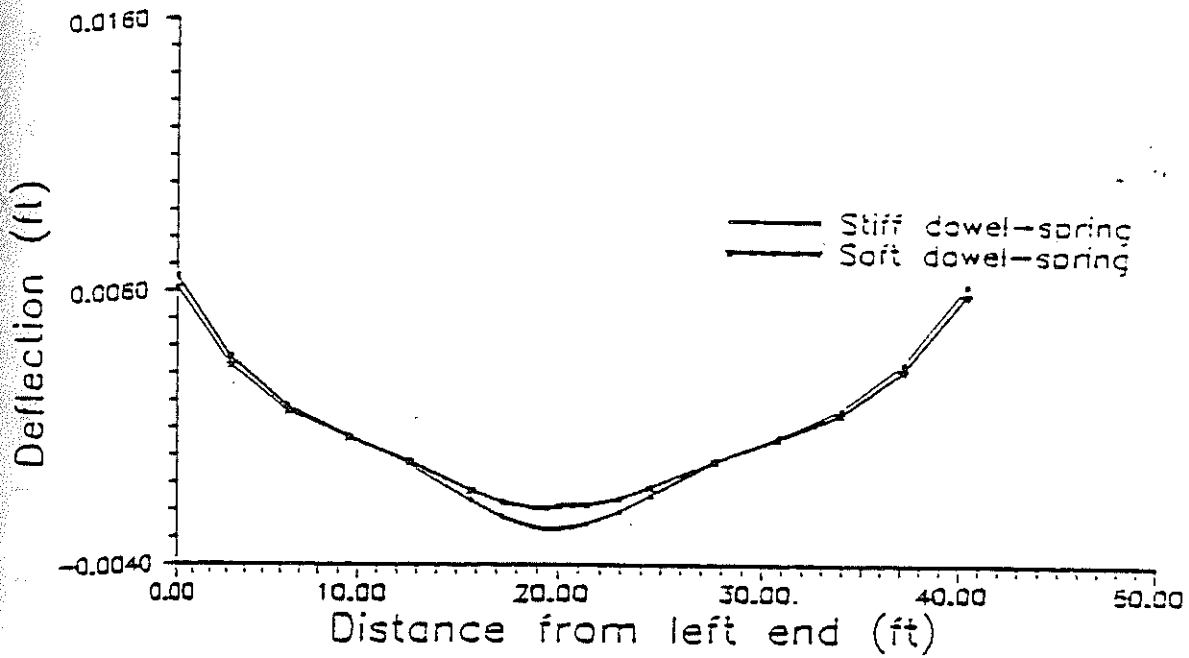


Figure B-26

Deflection profile along edge wheel path load type 2 - support condition 4 - load level 1

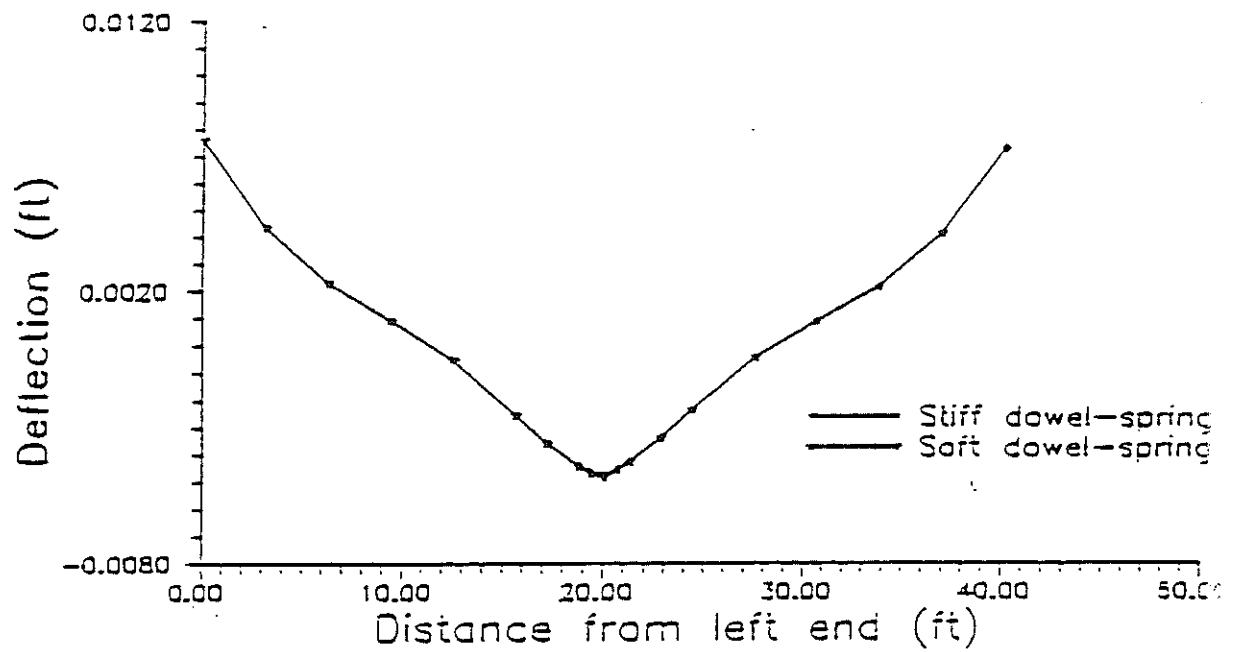


Figure B-27

Deflection profile along edge wheel path load type 2 - support condition 4 - load level 3

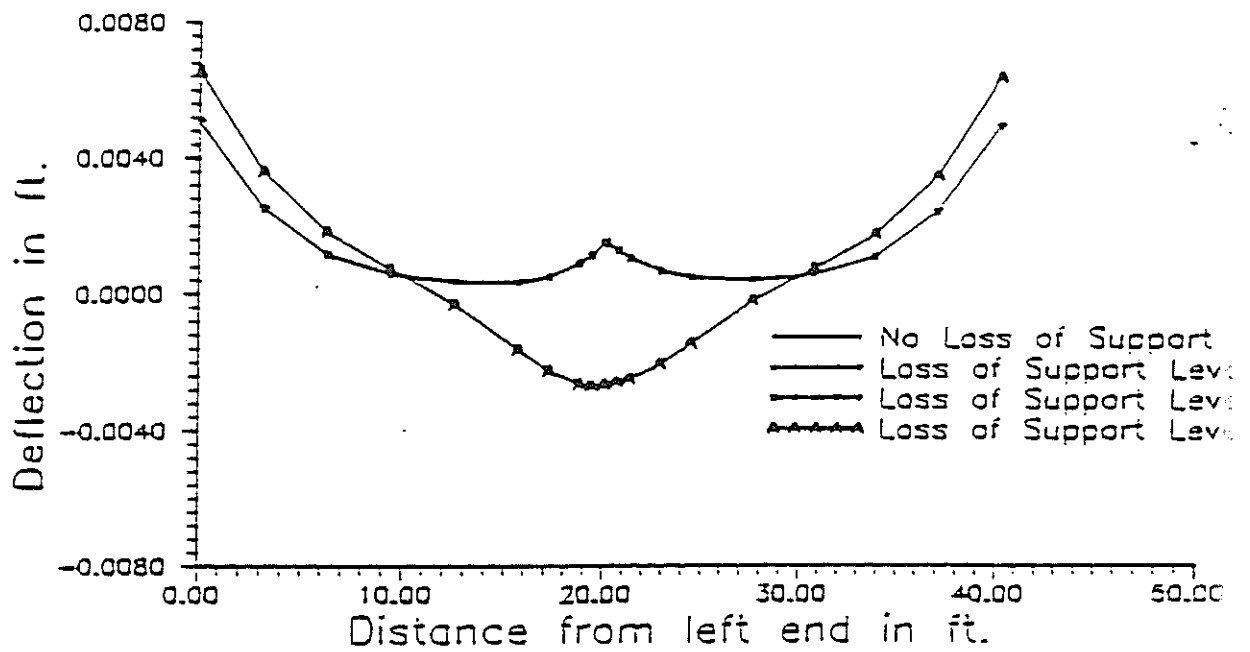


Figure B-28

Deflection profile along edge wheel path stiff dowel spring, load type 2, load level 1

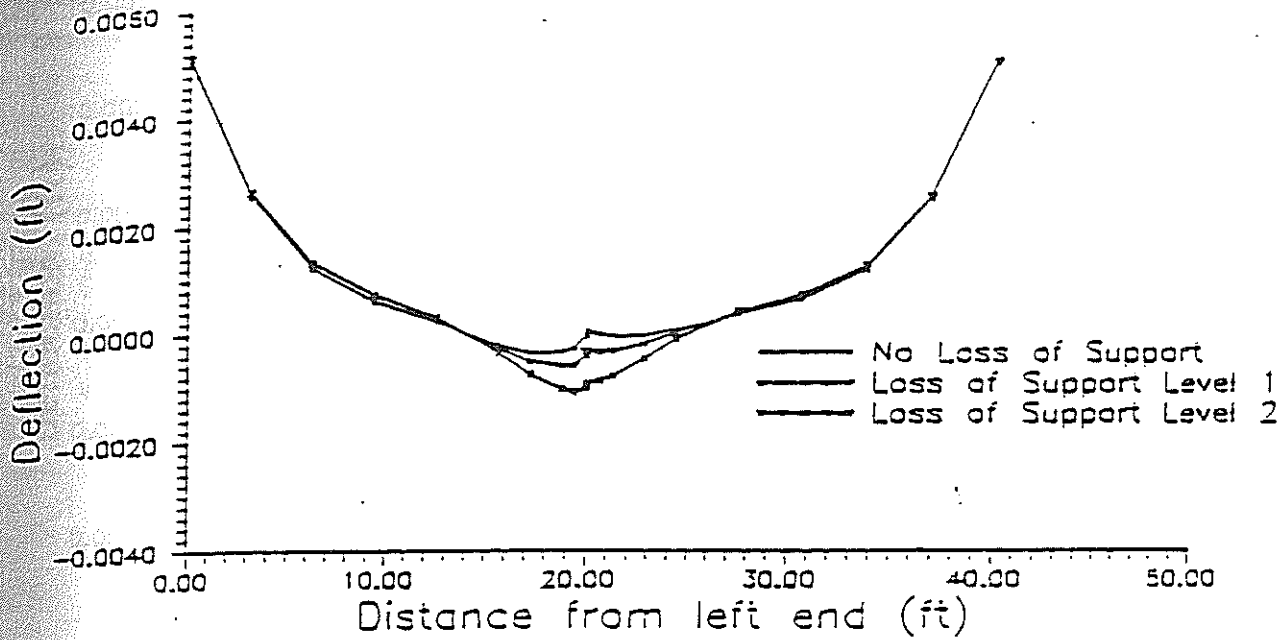


Figure B-29

Deflection profile along edge wheel path stiff dowel spring, load type 2, load level 2

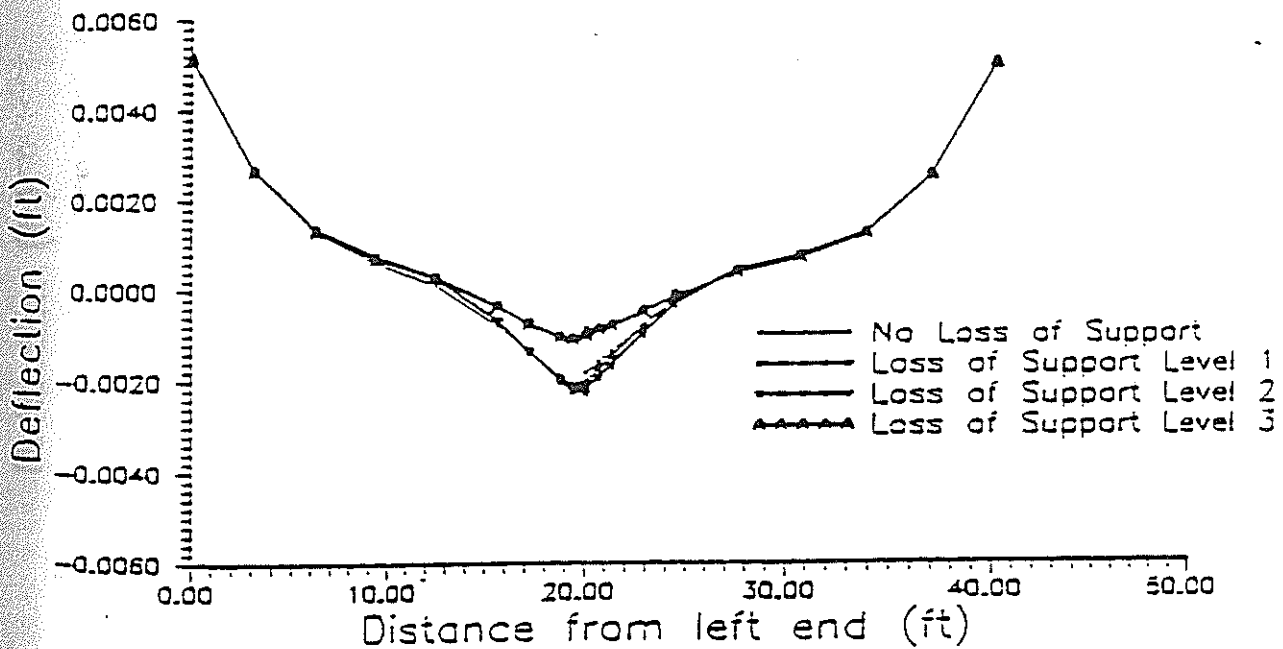


Figure B-30

Deflection profile along edge wheel path stiff dowel spring, load type 2, load level 3

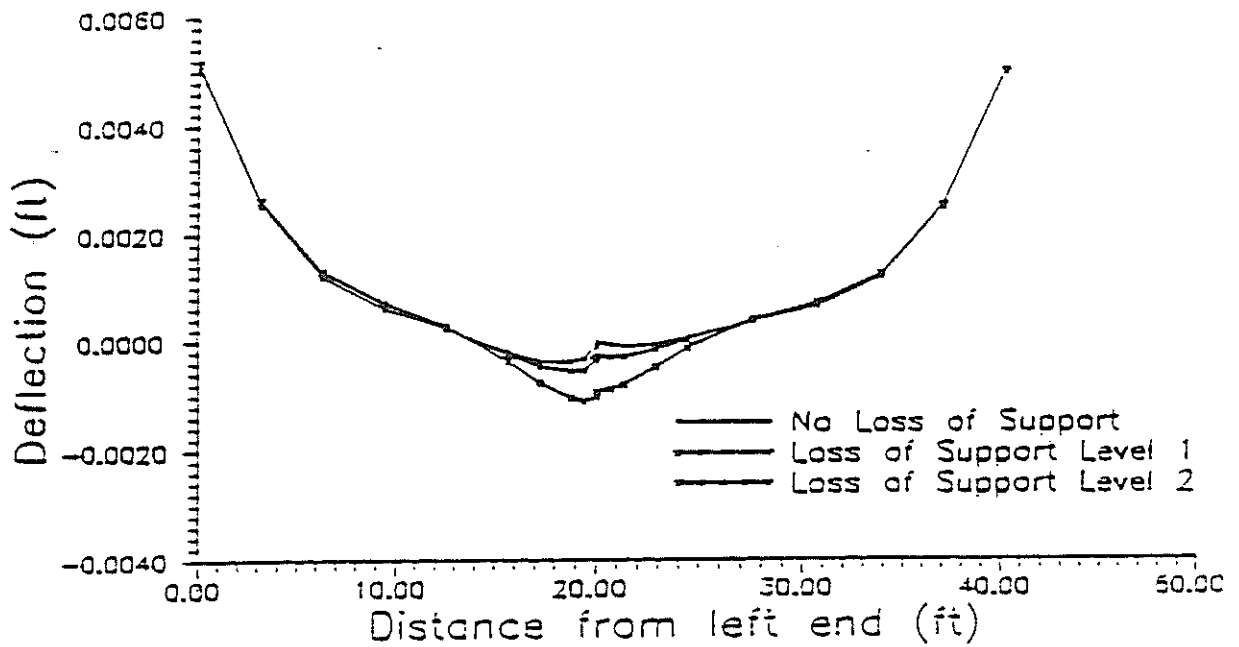


Figure B-31

Deflection profile along edge wheel path soft dowel spring, load type 2, load level 2

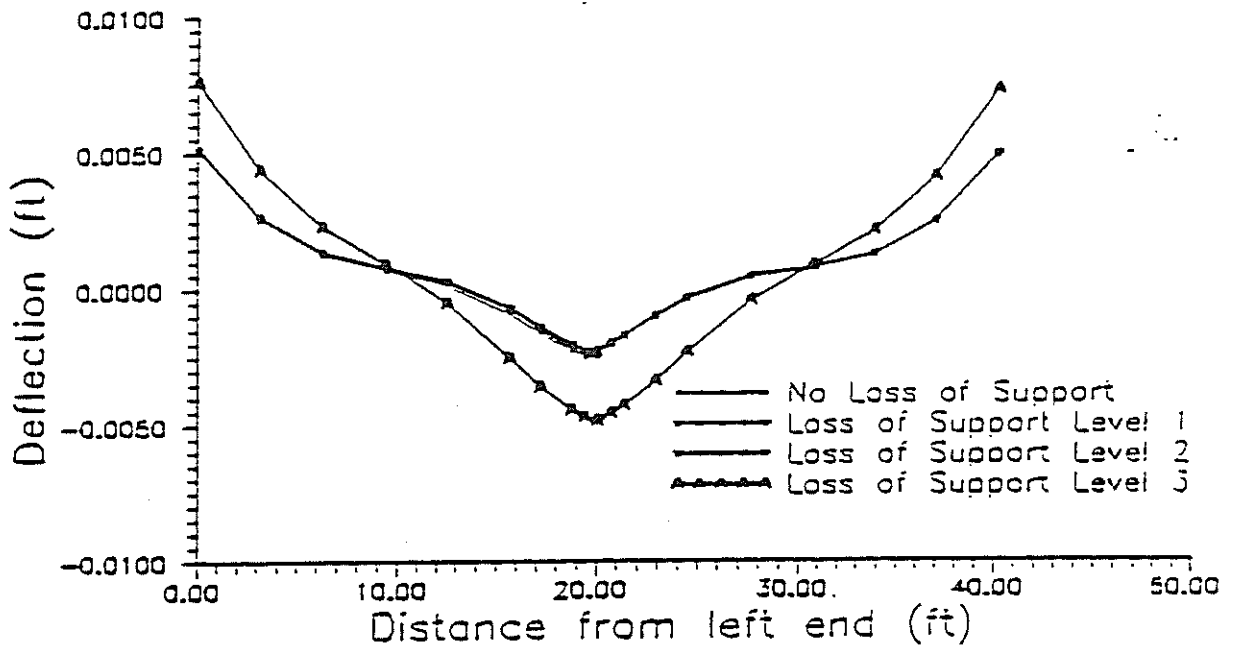


Figure B-32

Deflection profile along edge wheel path soft dowel spring, load type 2, load level 3

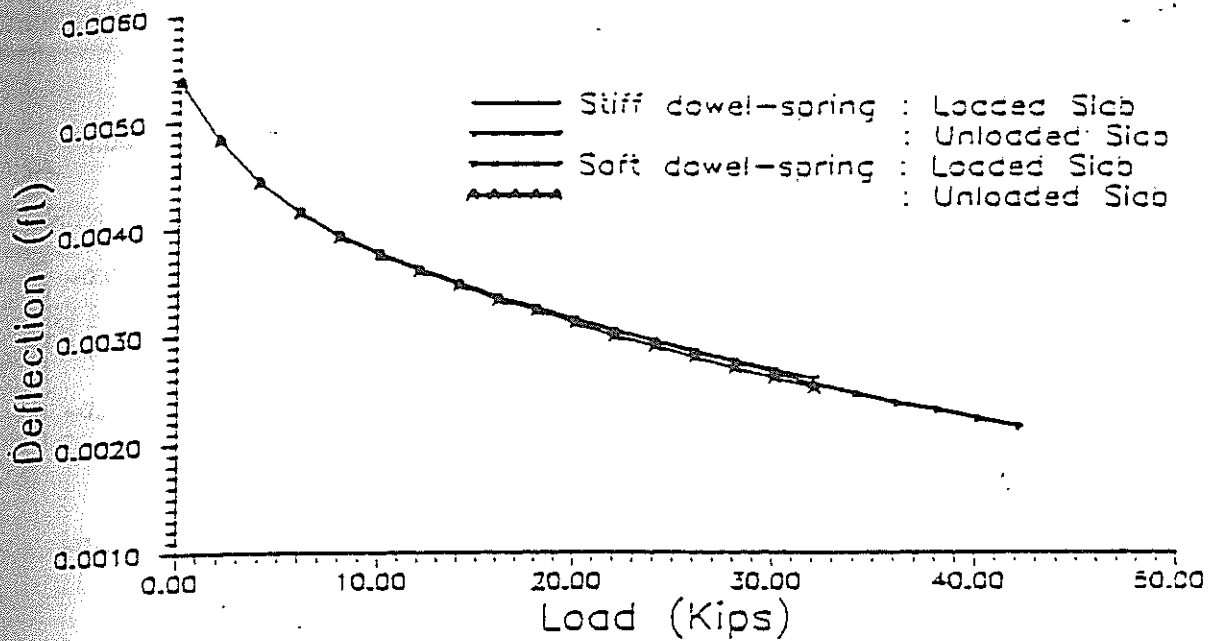


Figure B-33

Load vs. max. deflection curves for load type 2 - support condition 1

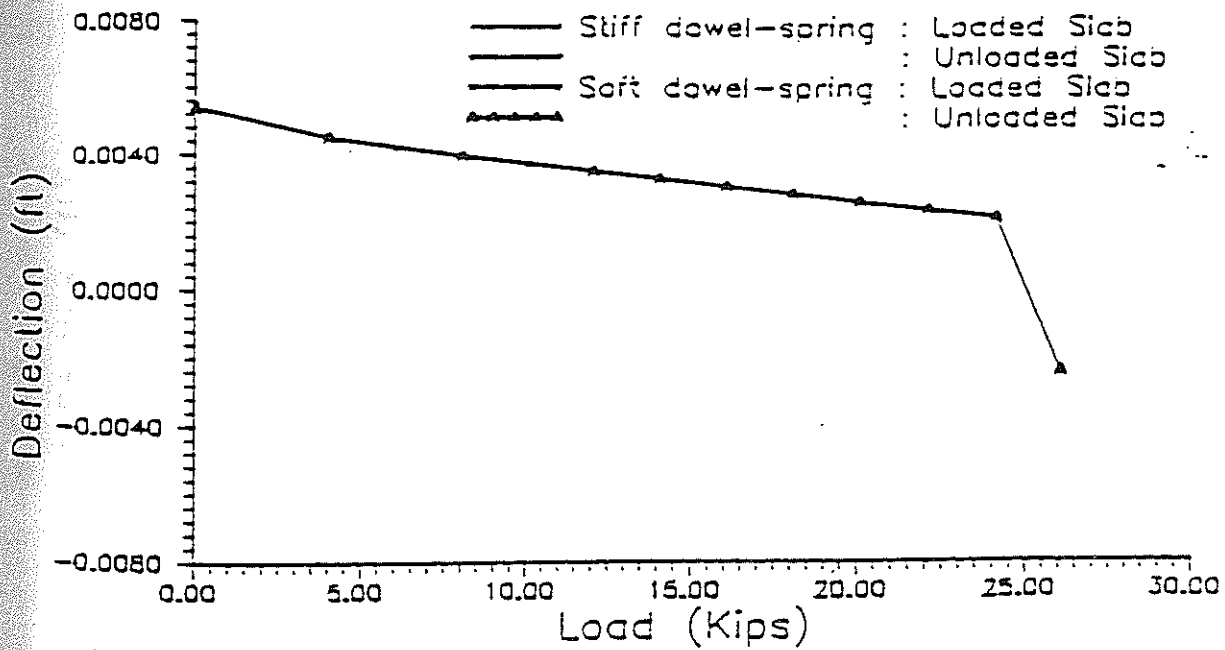


Figure B-34

Load vs. max. deflection curves for load type 2 - support condition 3

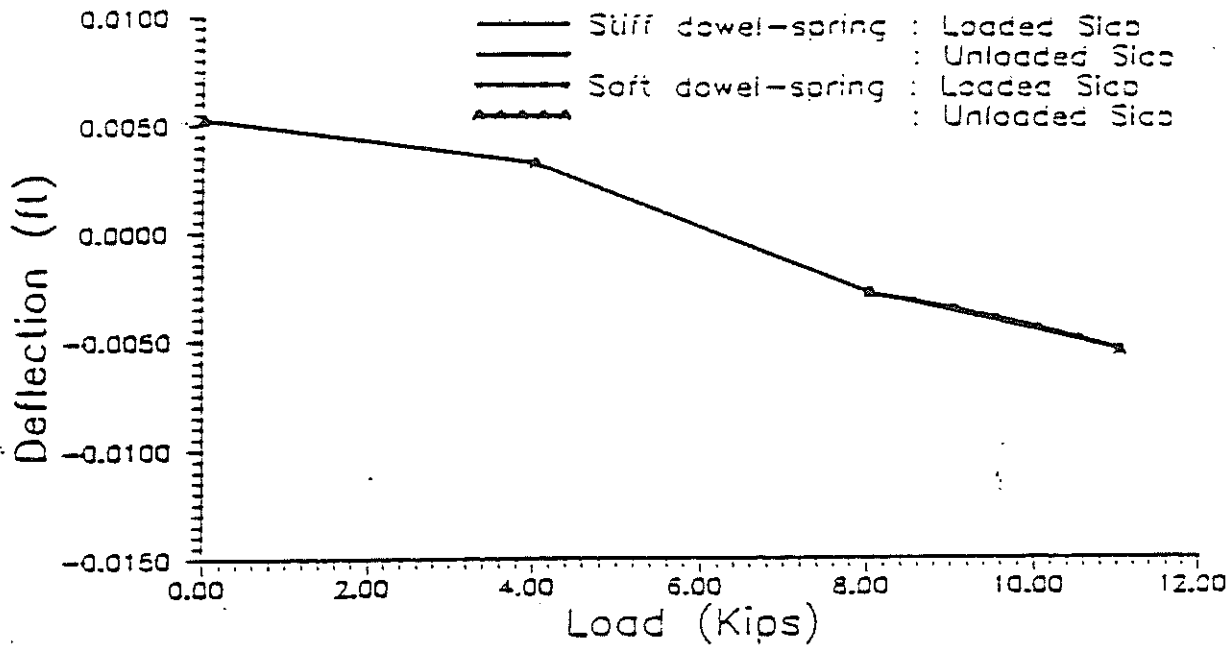


Figure B-35

Load vs. max. deflection curves for load type 2 - support condition 4.

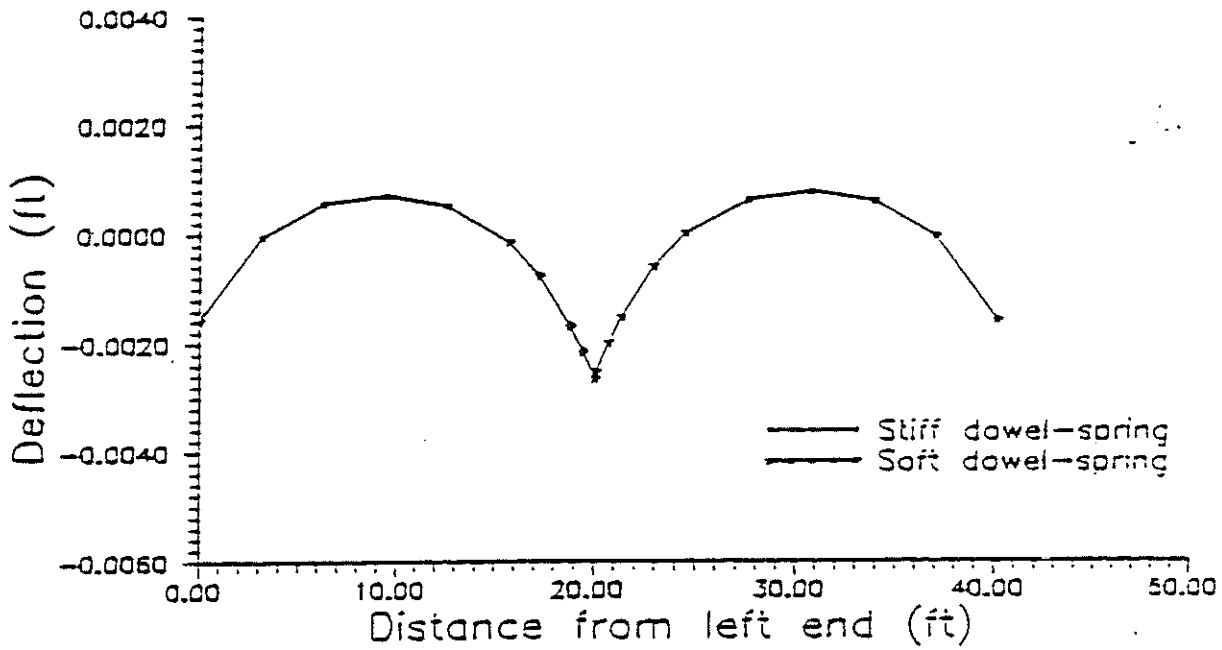


Figure B-36

Deflection profile along edge wheel path load type 3 - support condition 1 - load level 1

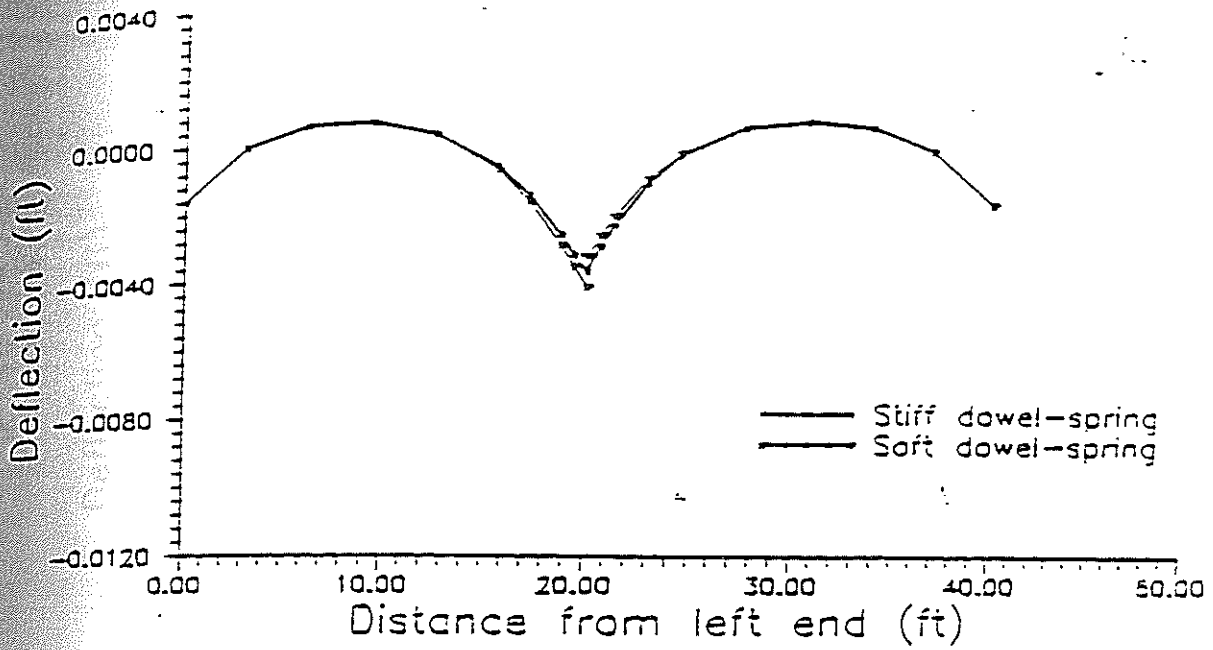


Figure B-37

Deflection profile along edge wheel path load type 3 - support condition 1 - load level 2

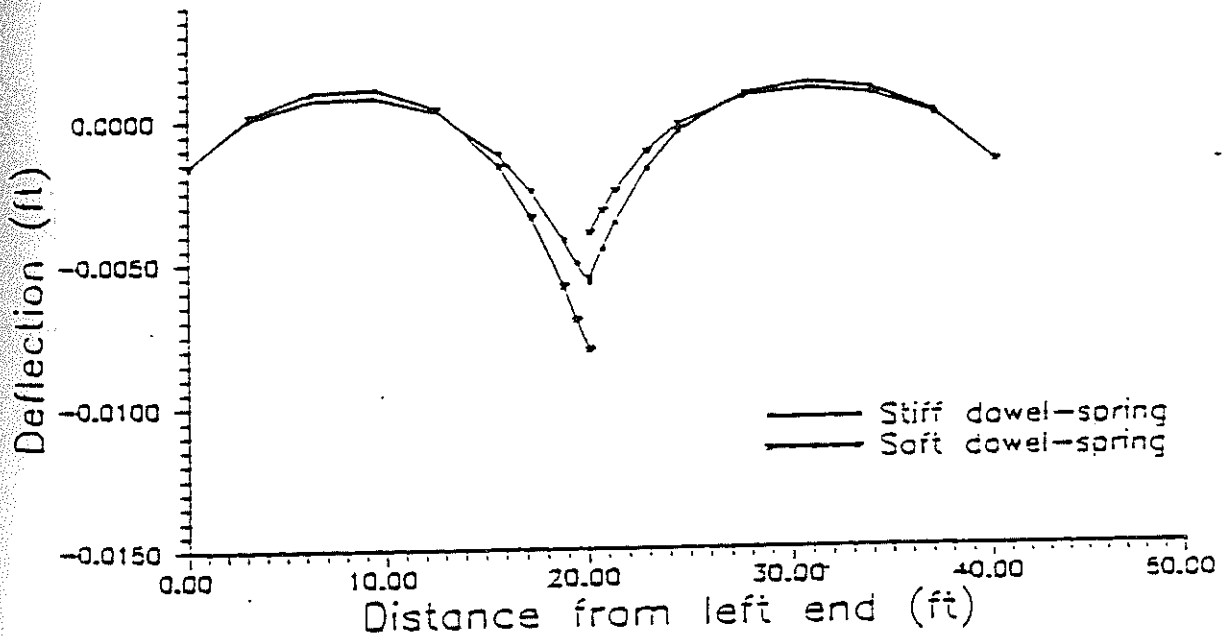


Figure B-38

Deflection profile along edge wheel path load type 3 - support condition 1 - load level 3

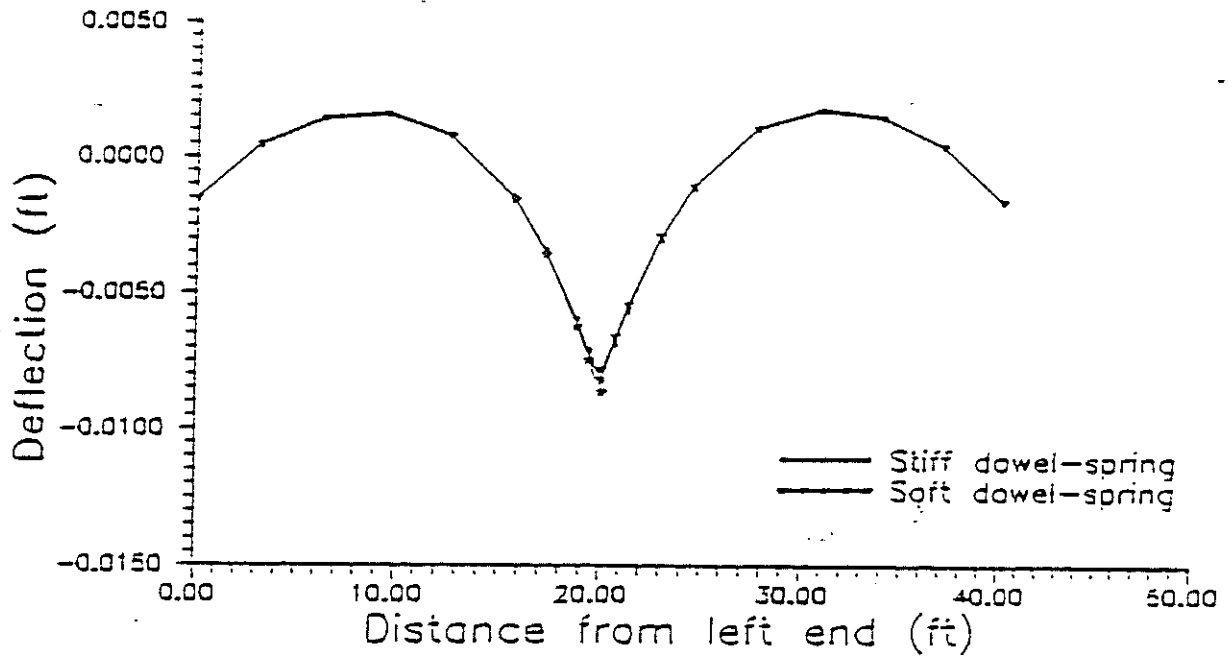


Figure B-43

Deflection profile along edge wheel path load type 3 - support condition 3 - load level 2

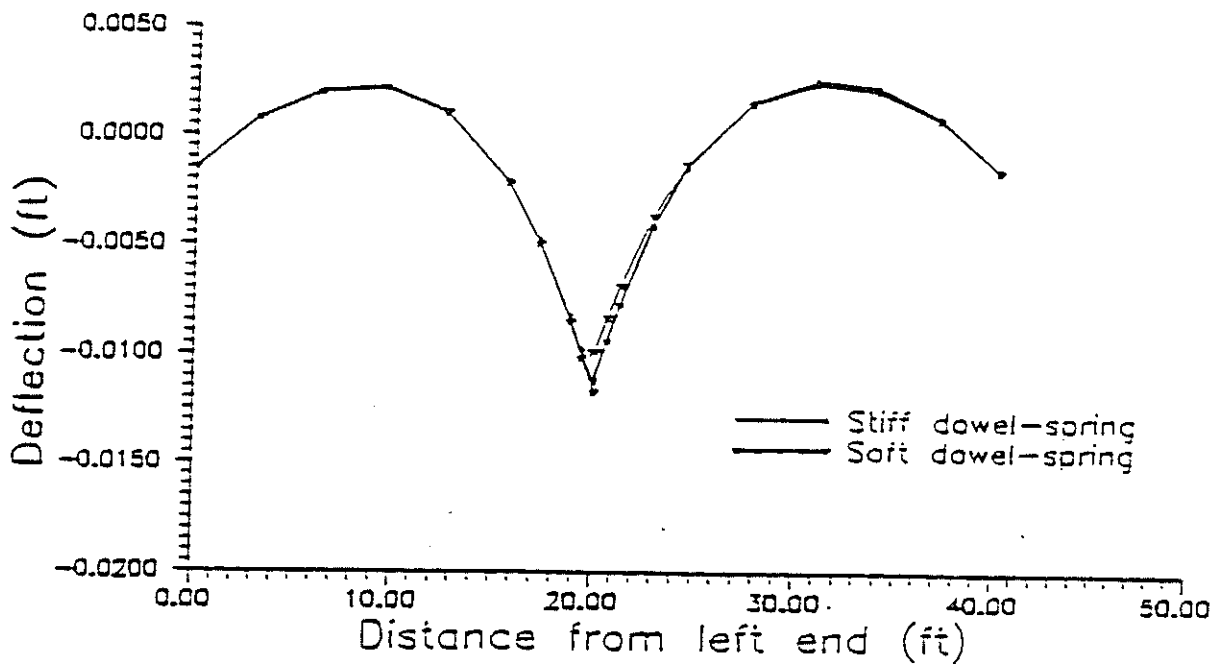


Figure B-44

Deflection profile along edge wheel path load type 3 - support condition 3 - load level 3

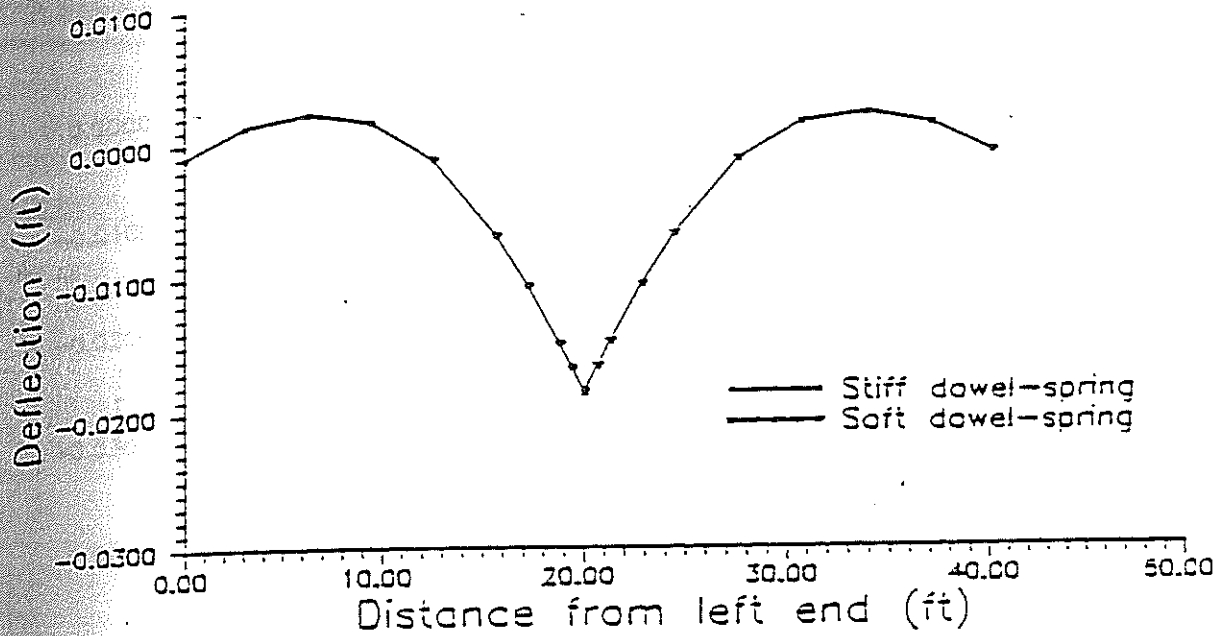


Figure B-45

Deflection profile along edge wheel path load type 3 - support condition 4 - load level 1

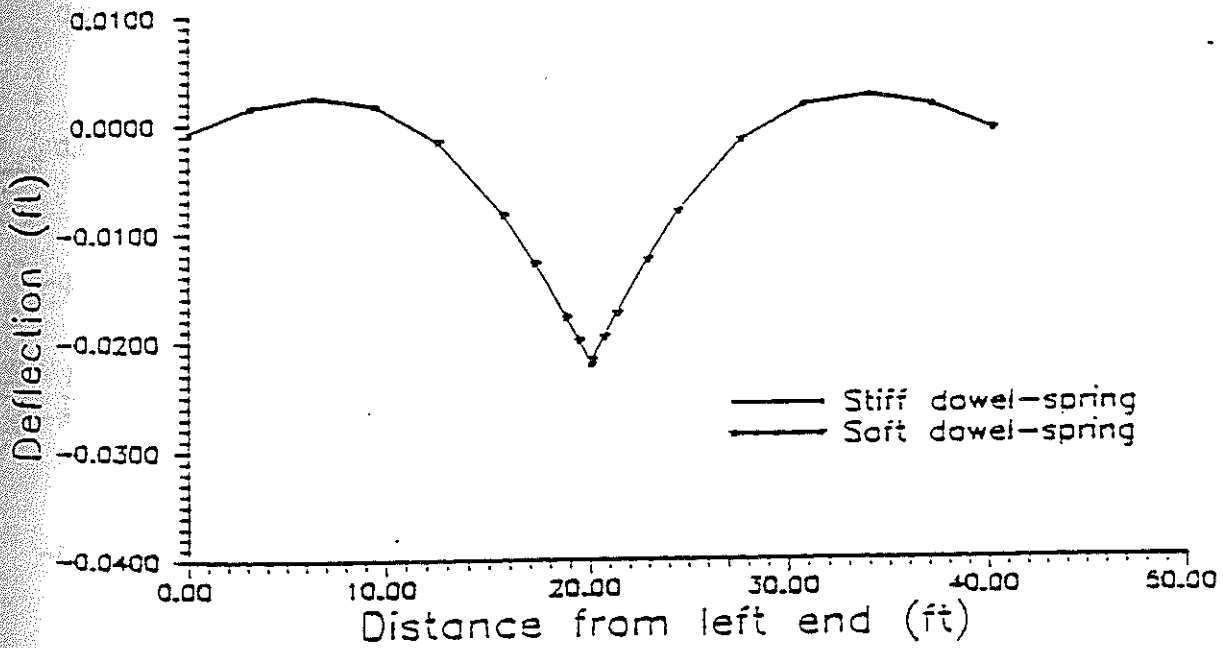


Figure B-46

Deflection profile along edge wheel path load type 3 - support condition 4 - load level 3

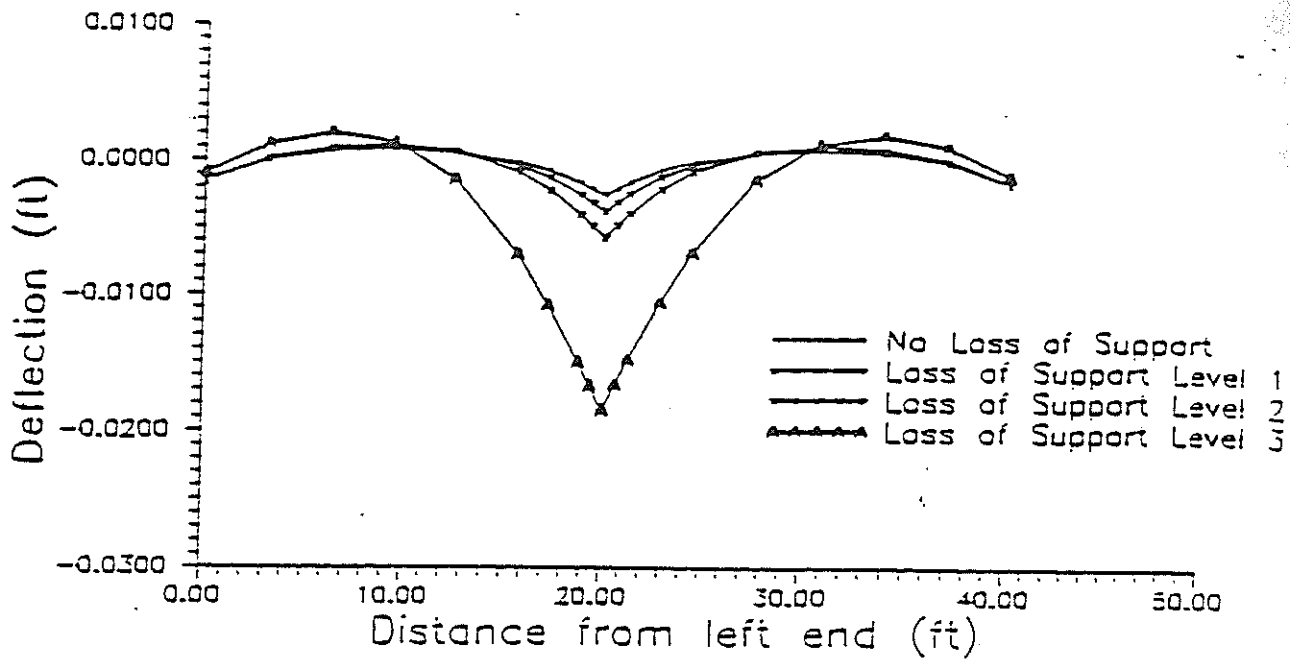


Figure B-47

Deflection profile along edge wheel path stiff dowel spring, load type 3, load level 1

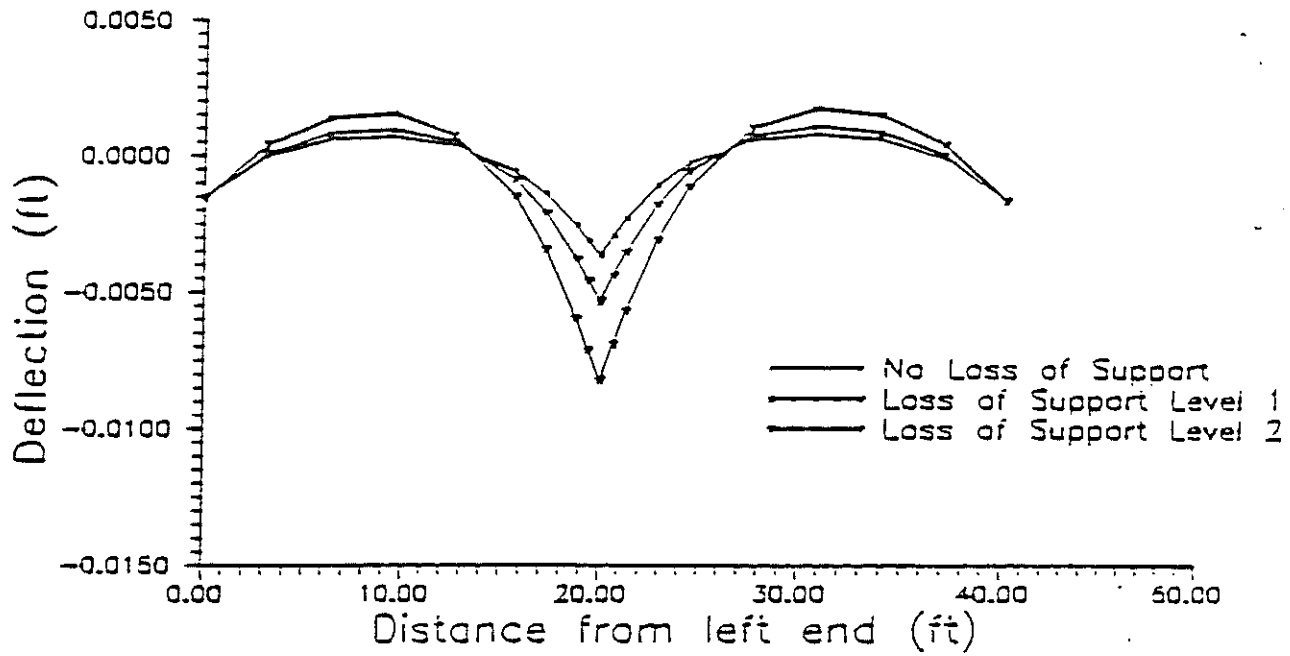


Figure B-48

Deflection profile along edge wheel path stiff dowel spring, load type 3, load level 2

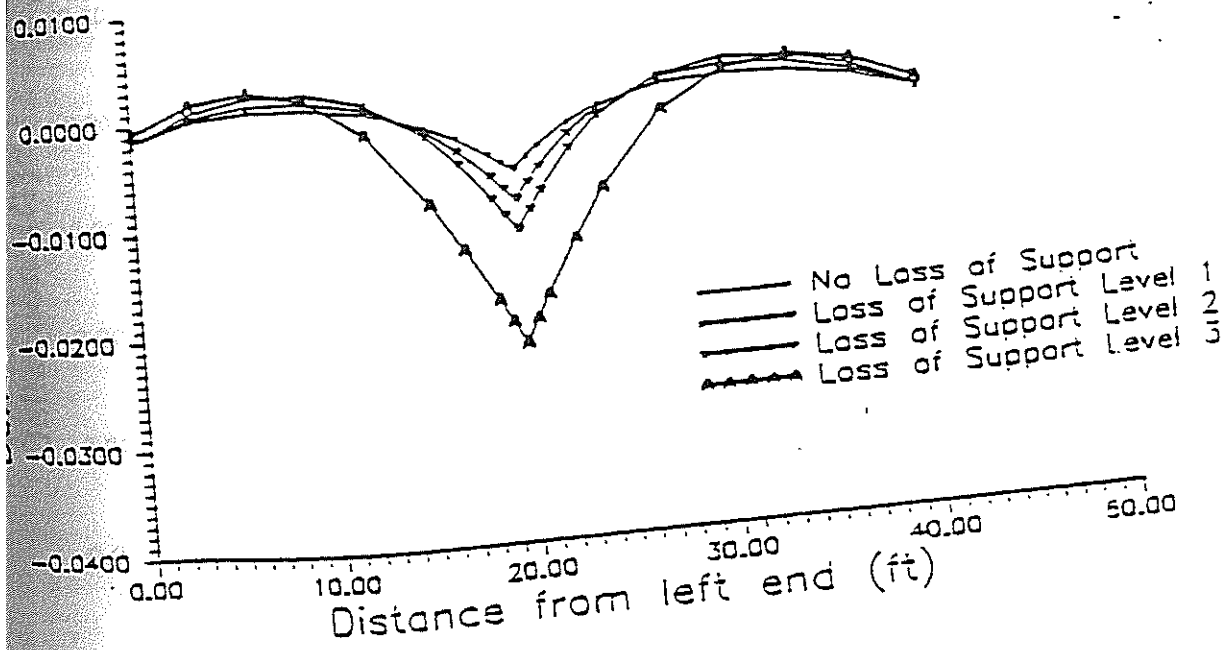


Figure B-49

Deflection profile along edge wheel path Stiff dowel spring, load type 3, load level 3

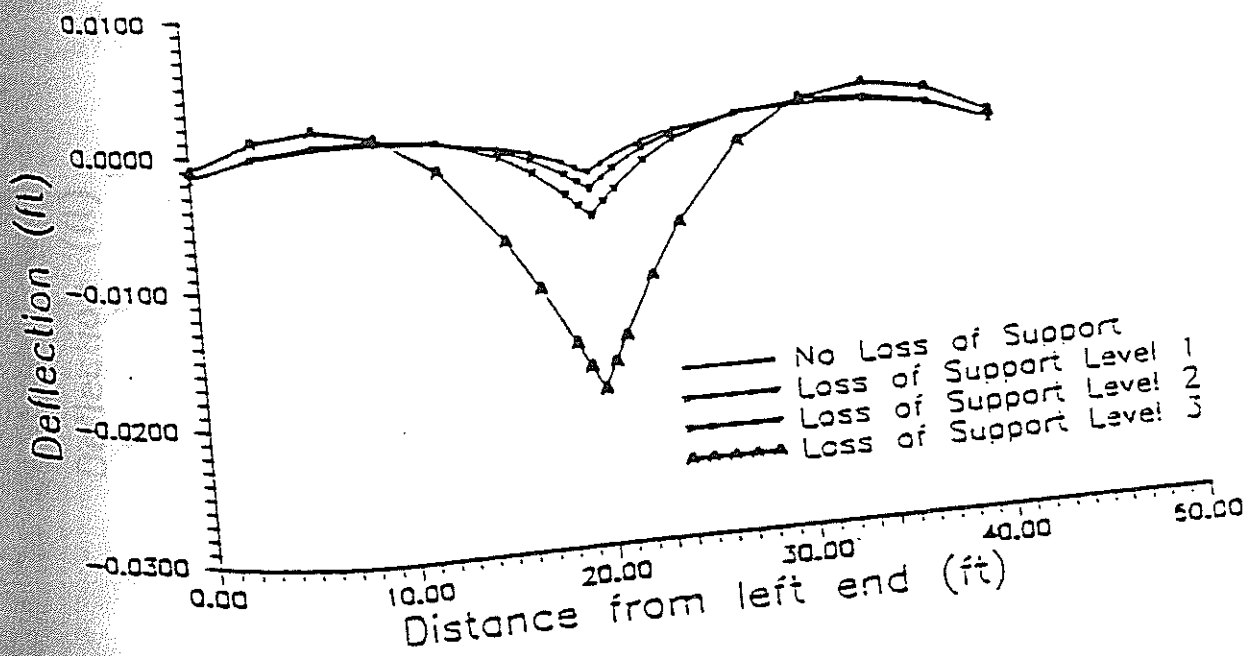


Figure B-50

Deflection profile along edge wheel path soft dowel spring, load type 3, load level 1

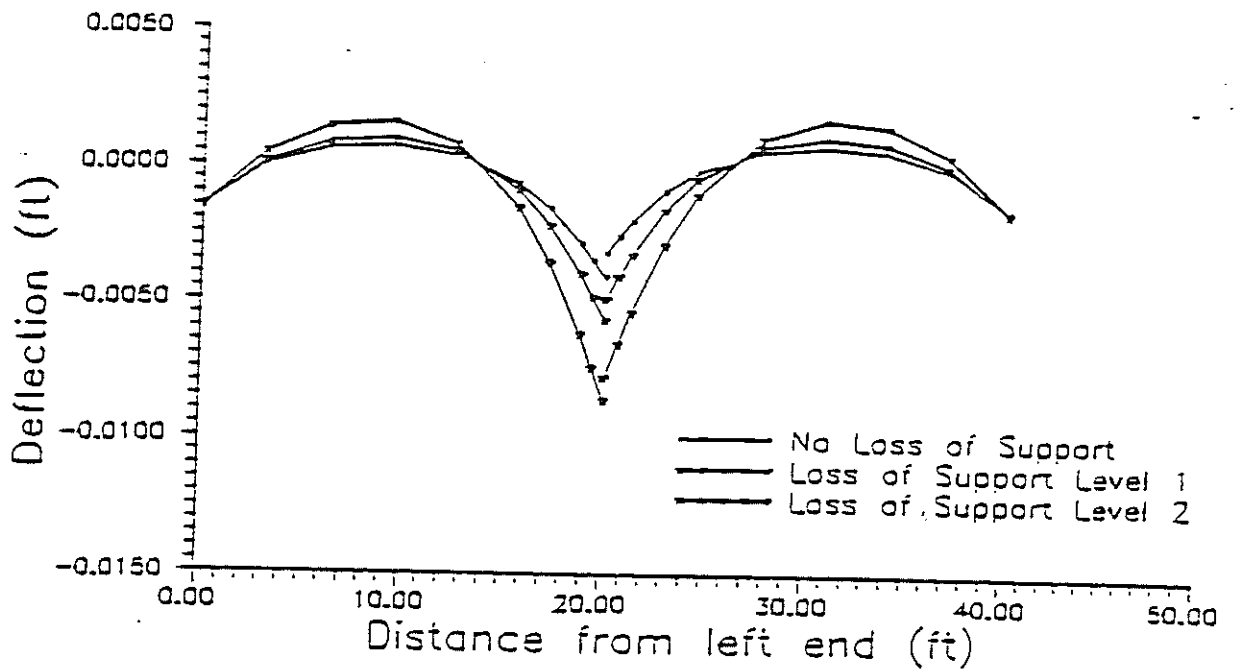


Figure B-51

Deflection profile along edge wheel path soft dowel spring, load type 3, load level 2

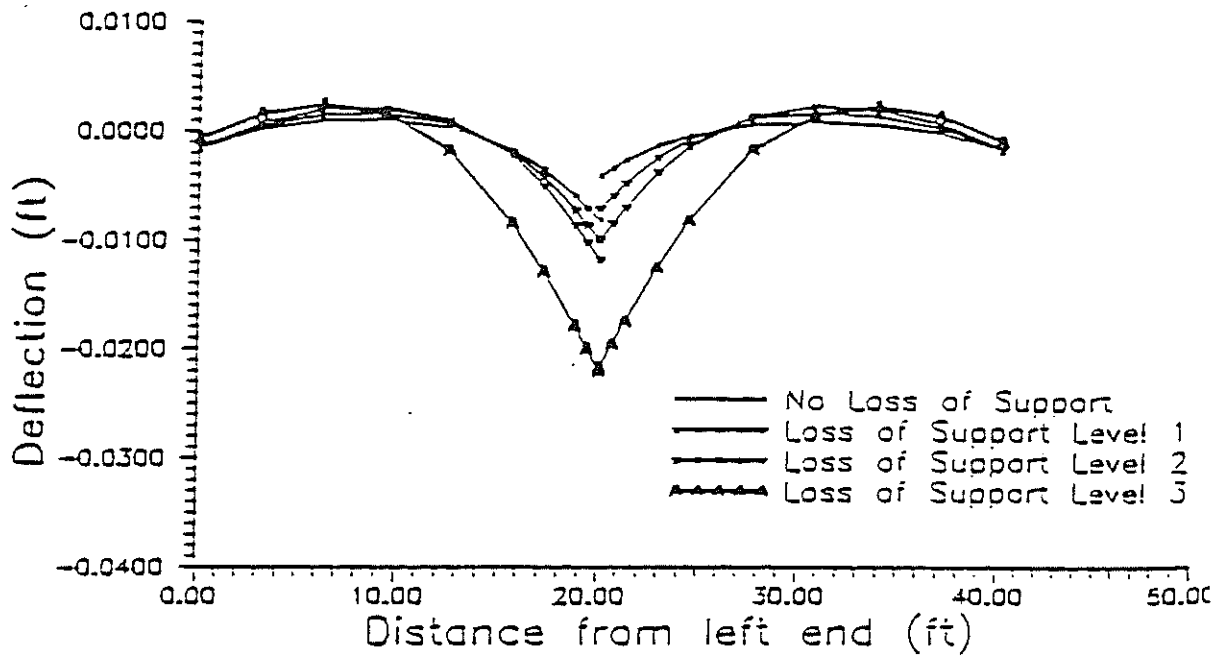


Figure B-52

Deflection profile along edge wheel path soft dowel spring, load type 3, load level 3

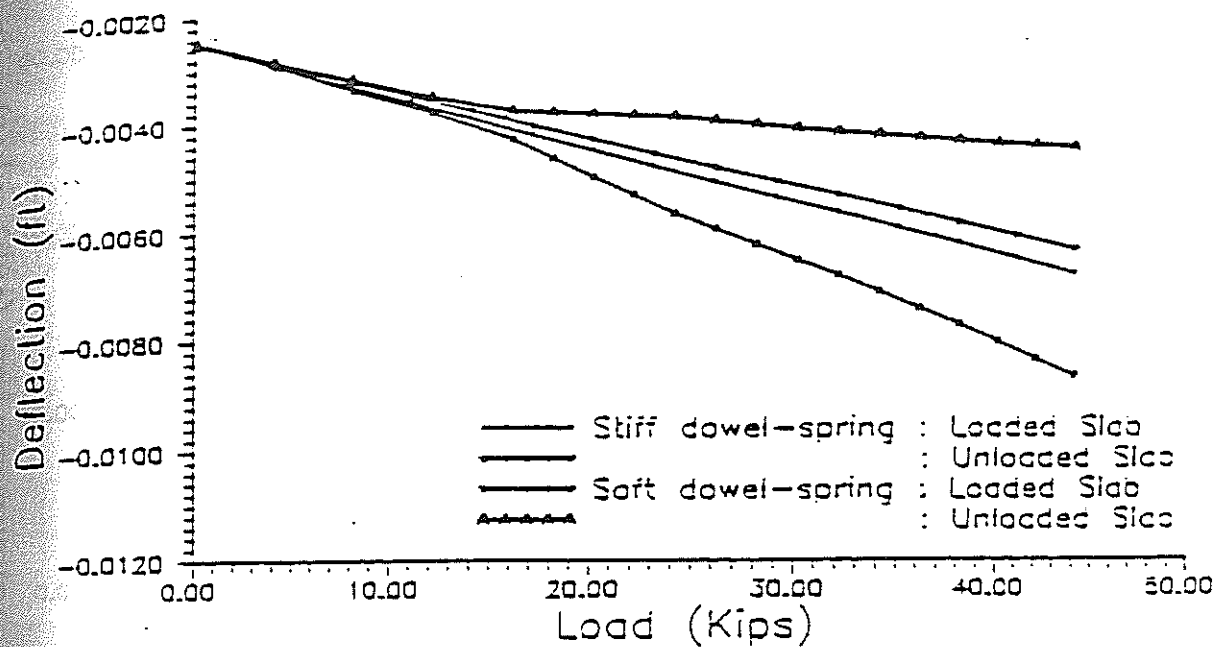


Figure B-53

Load vs. max. deflection curves for load type 3 - support condition 1

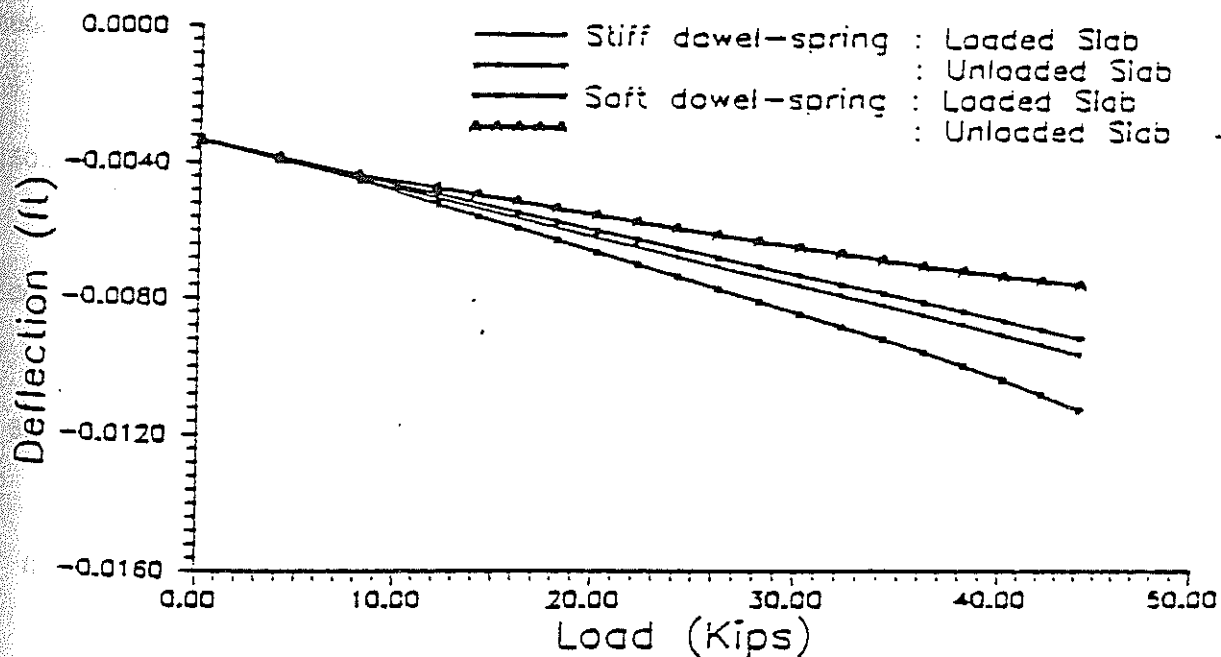


Figure B-54

Load vs. max. deflection curves for load type 3 - support condition 2

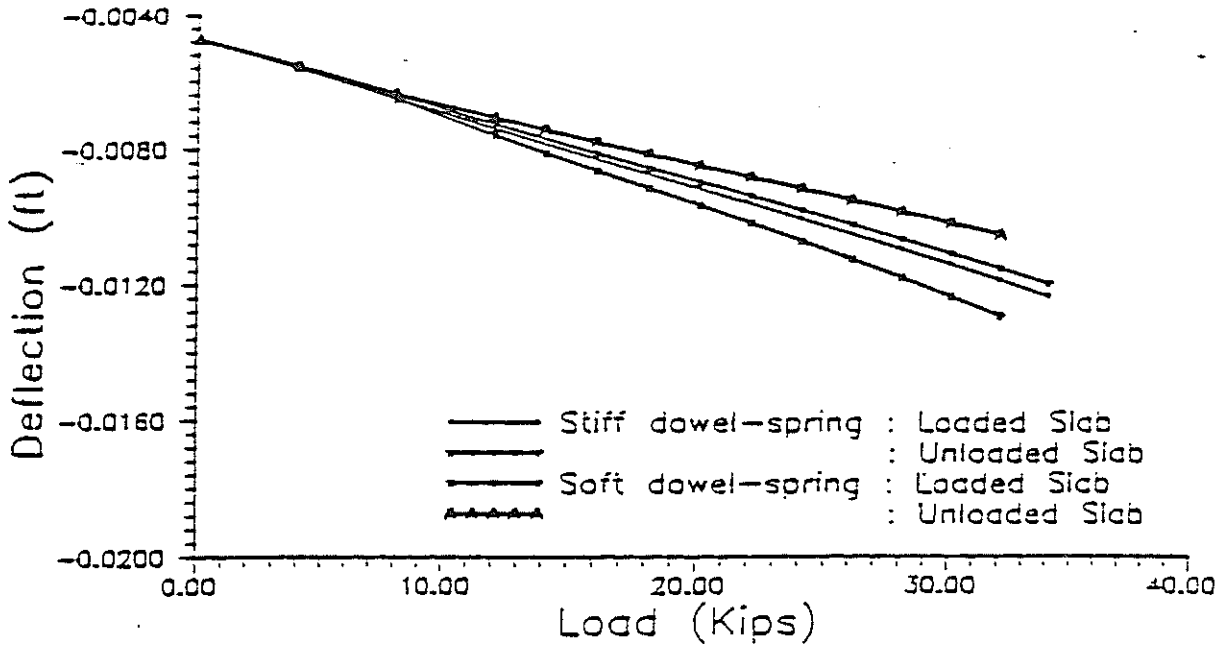


Figure B-55

Load vs. max. deflection curves for load type 3 - support condition 3

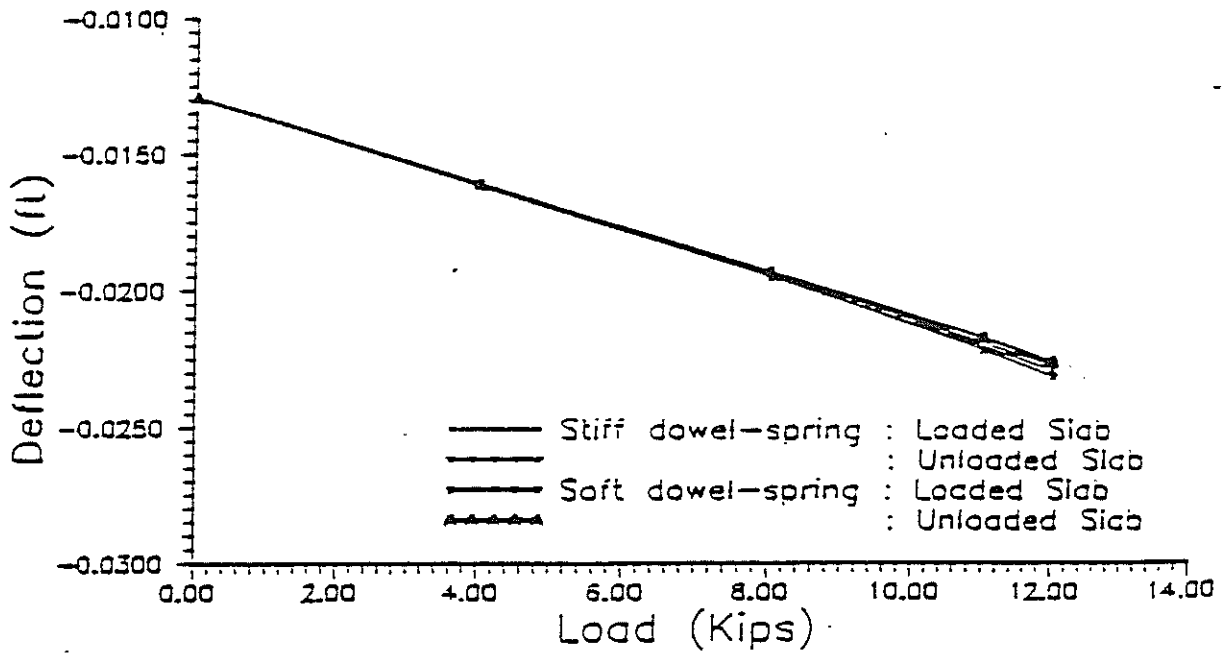


Figure B-56

Load vs. max. deflection curves for load type 3 - support condition 4

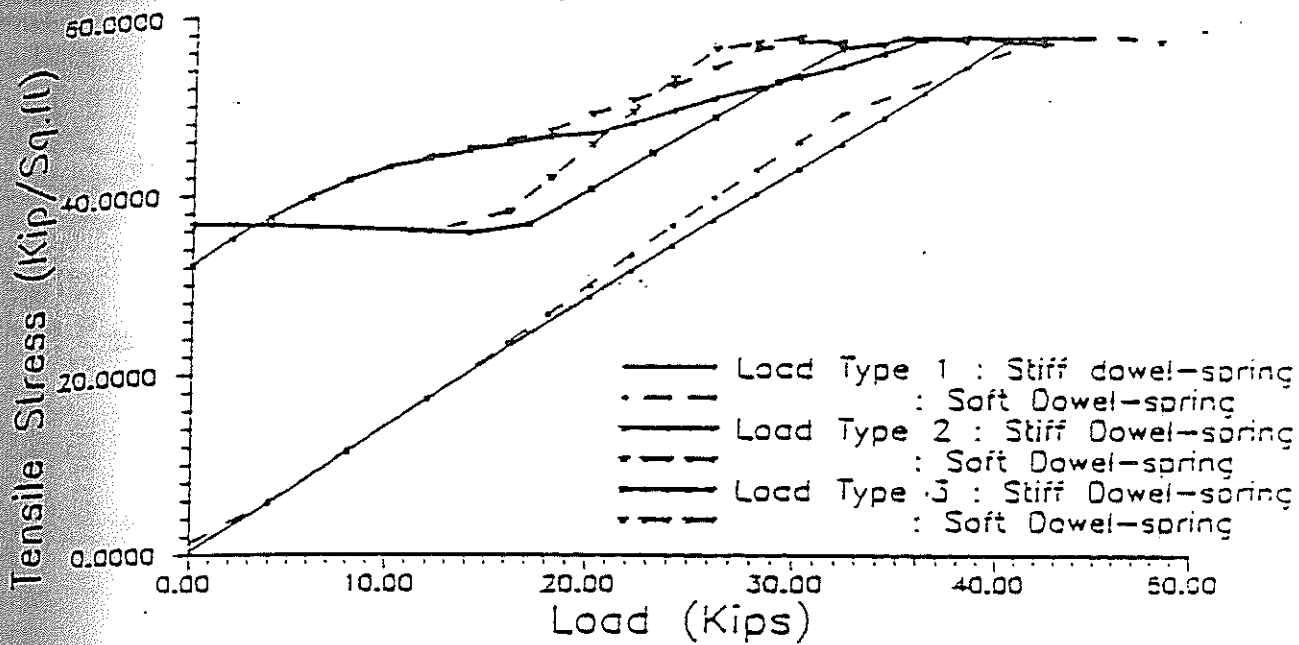


Figure B-57

Load vs. max. tensile stress curves support condition 1

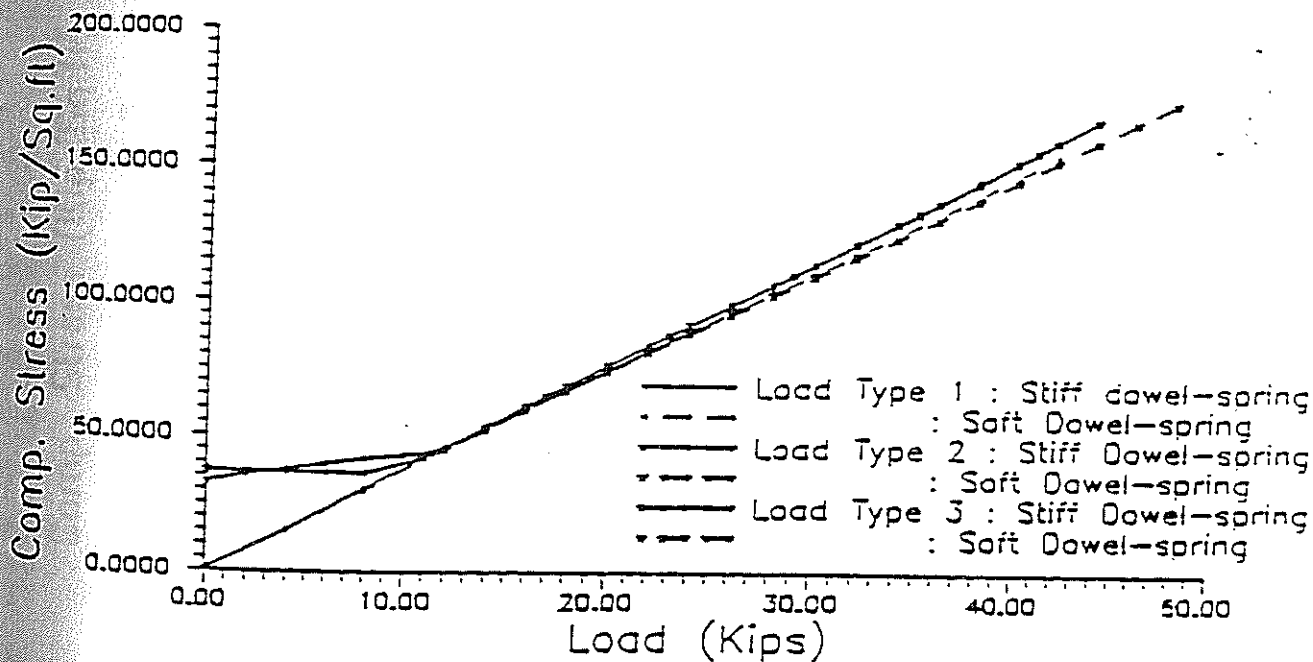


Figure B-58

Load vs. max. compressive stress curves support condition 1

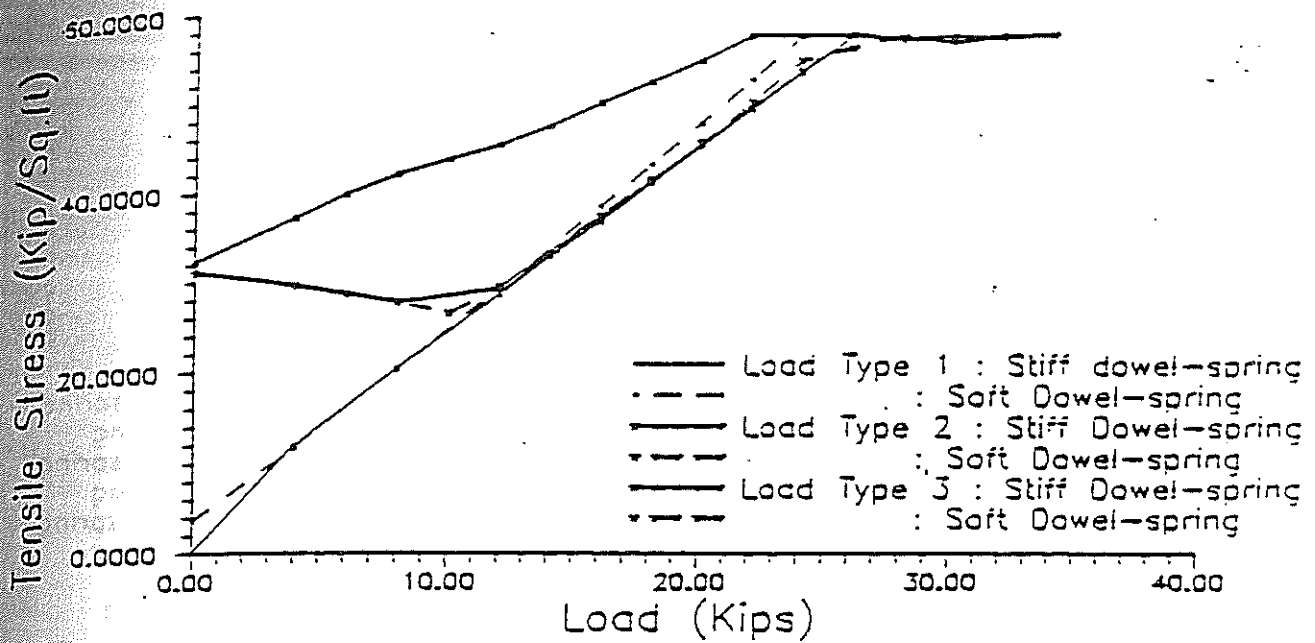


Figure B-61

Load vs. max. tensile stress curves support condition 3

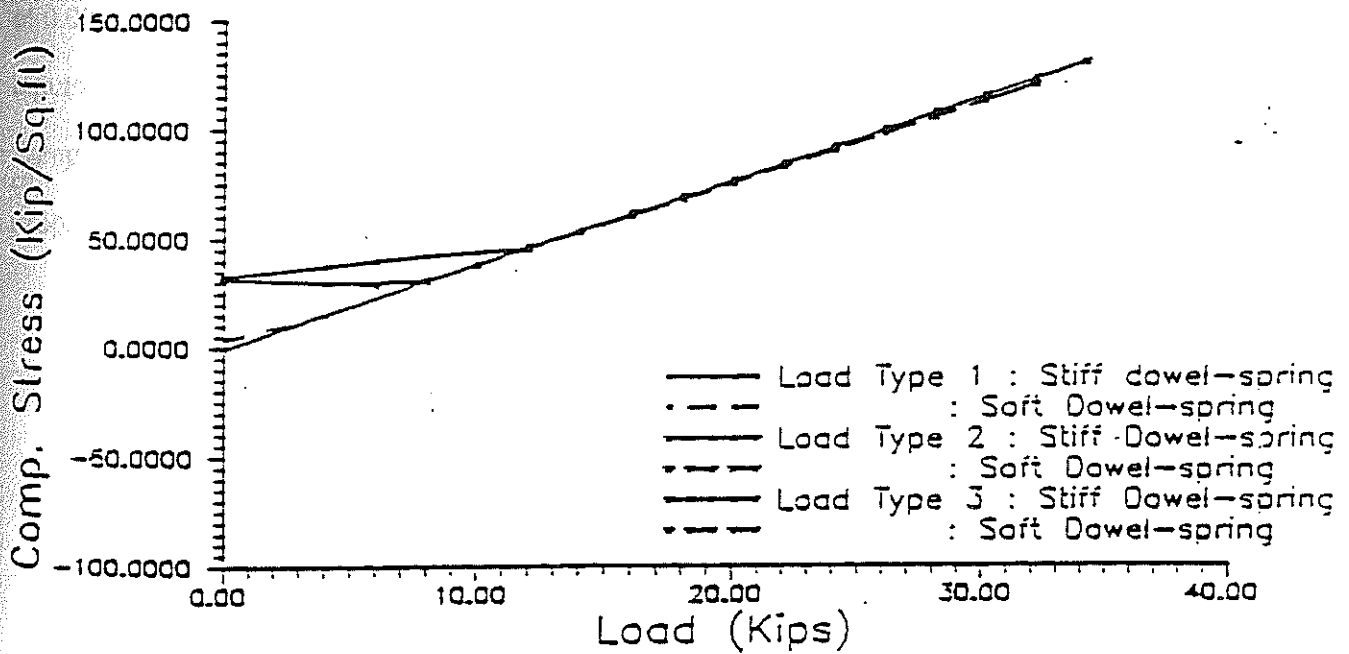


Figure B-62

Load vs. max. compressive stress curves support condition 3

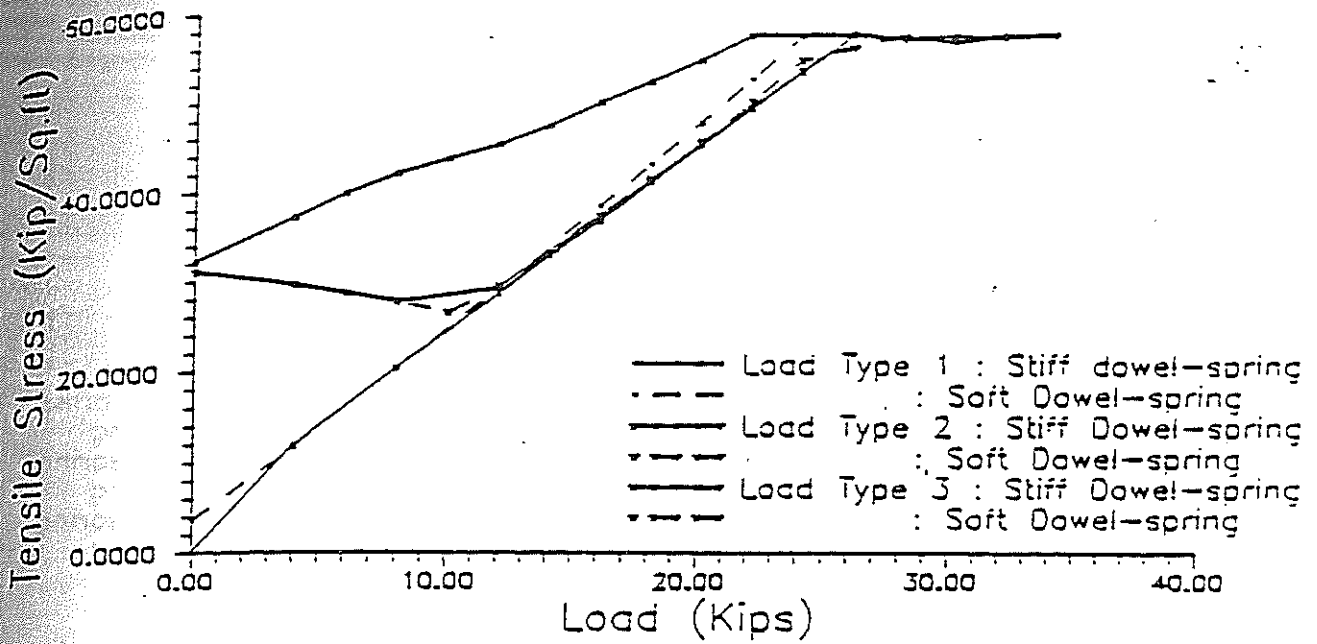


Figure B-61

Load vs. max. tensile stress curves support condition 3

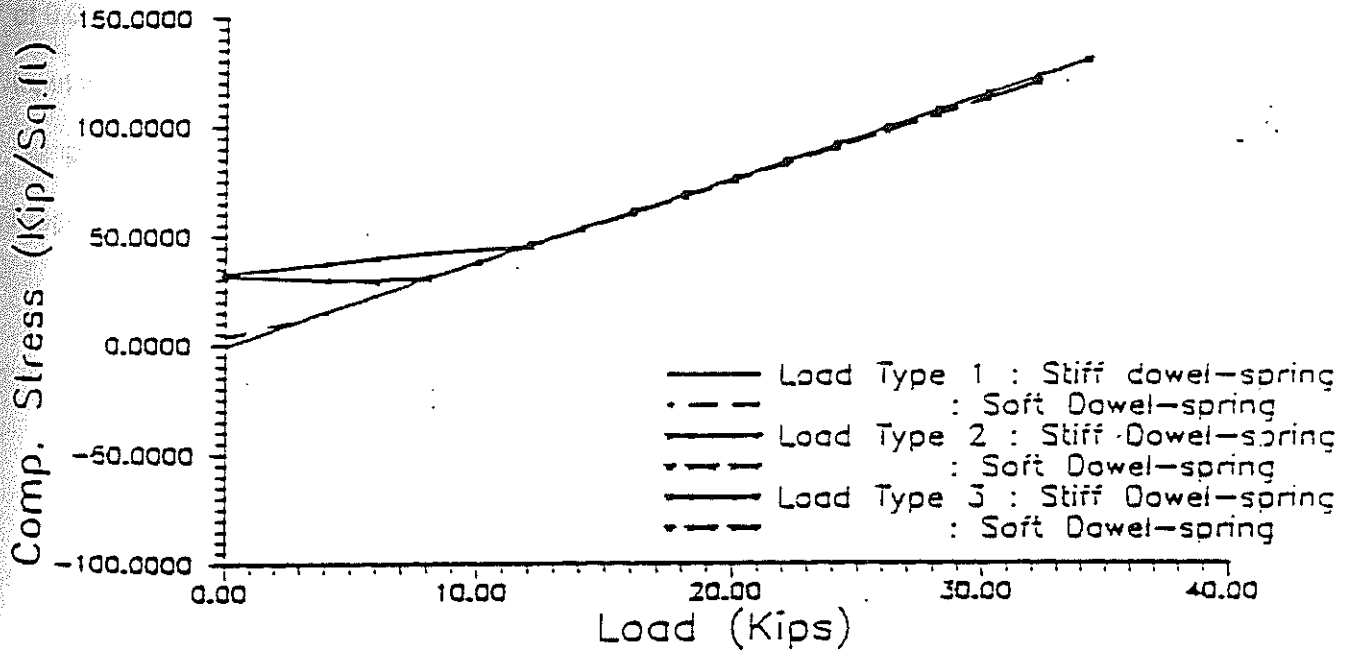


Figure B-62

Load vs. max. compressive stress curves support condition 3

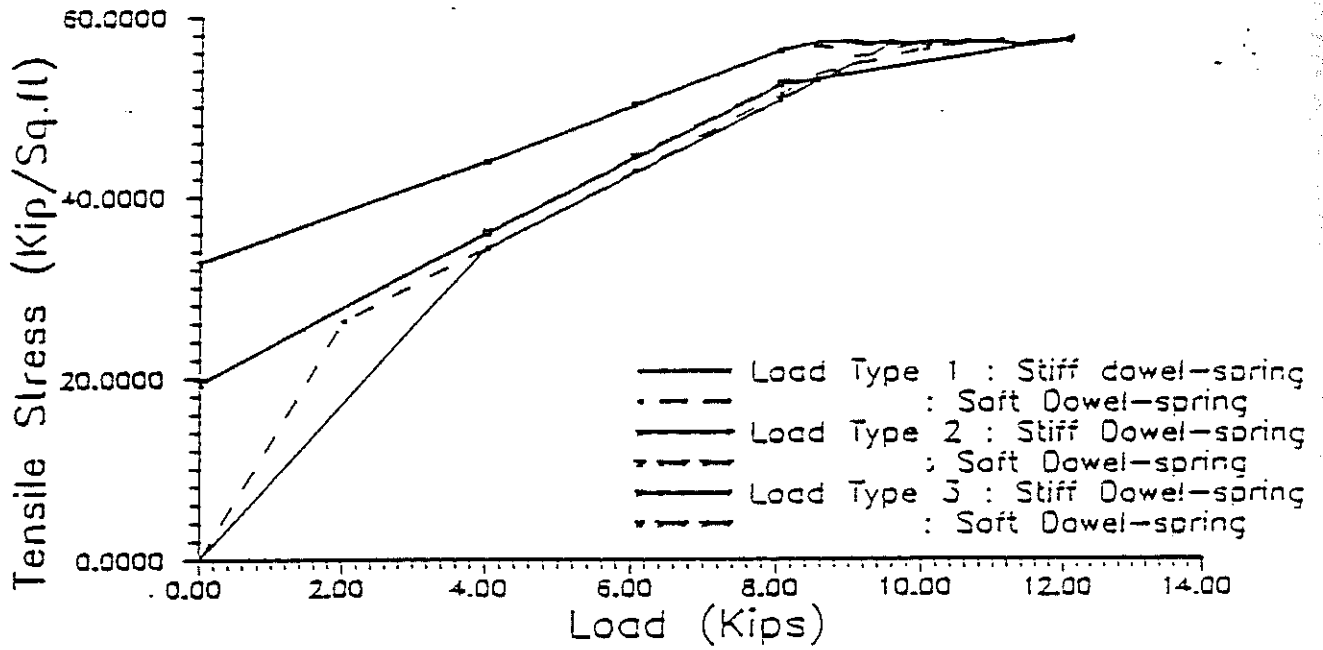
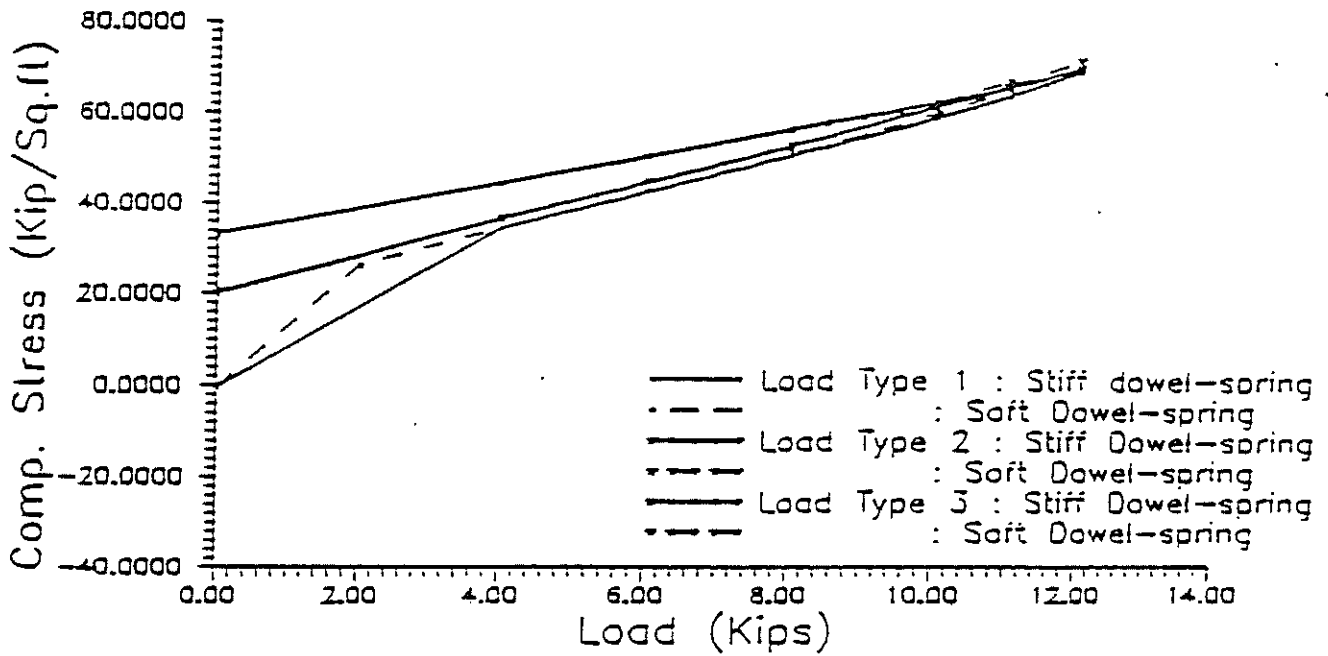


Figure B-63

Load vs. max. tensile stress curves support condition 4



Load vs. max. compressive stress curves support condition 4

APPENDIX C

Flow chart

Instructions for data input

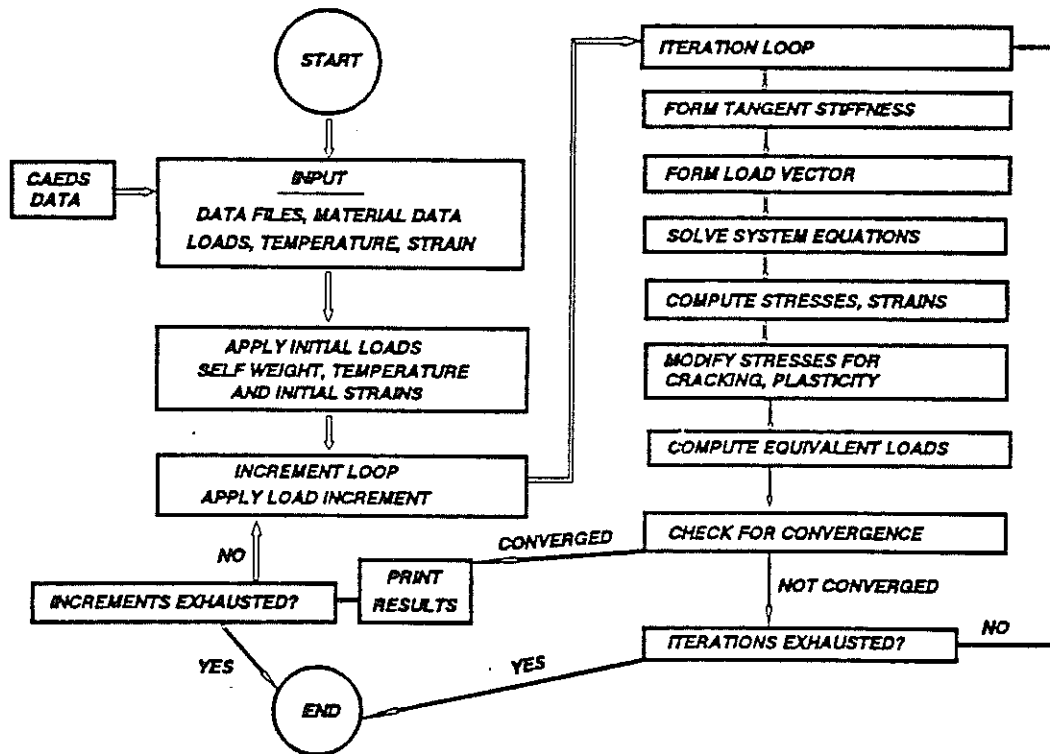
Input data for analysis of pavements subjected to nighttime temperature curling, partial loss of support (Level 3), and wheel loads

Input data file for analysis of pavements with concrete full depth patch and a shrinkage of 0.00002

Input file from CAEDS for analysis of pavements with patch

Sample output for analysis of pavements with patch

Program listing



FLOW CHART

INSTRUCTIONS FOR DATA INPUT

The program developed in this study employs a system of MACRO commands for both INPUT of data and CONTROL of solution procedure. This system closely follows the one described by Taylor in the book by Zienkiewicz (1979).

The INPUT to the program consists of two files. The main file has the commands controlling the INPUT and SOLUTION procedure. The second file contains the finite element mesh data generated by the commercial package CAEDS. The name of this file is supplied in the main input file.

The contents of the main input file are described next.

| No. | MACRO | Description |
|-----|-------|---|
| 1. | FEAP | followed by a title describing the problem |
| 2. | | Number of nodes, Number of elements, Number of material sets, Number of dimensions, Number of degrees of freedom, and Maximum number of nodes per element (Note : This information is optional. The same is supplied through the CAEDS data file) |
| 3. | CAED | followed by the pre-processed file name generated by CAEDS |
| 4. | CTMP | Command for temperature input |
| 5. | | Top surface temperature, Bottom surface temperature, Top surface Z-coordinate, Bottom surface Z-coordinate. (Note : This information is necessary only for temperature loads) |
| 6. | MATE | Command to start reading material property information for various material sets given one after the another |
| 7. | | Material set number, Element type (Note : Element type = 1 - Beam element in space Element type = 2 - Spring element for subgrades and dowel support interactions Element type = 3 - Reinforcing bar element Element type = 4 - Concrete element (20-noded finite element) |
| 8. | | CONCRETE MATERIAL : Young's modulus, Poisson's ratio, Density, Number of Gauss points, and Number of Stress points (equal) FOR TEMPERATURE ANALYSIS - Coefficient of thermal expansion |
| | | DOWEL BARS : Young's modulus, Shear modulus, Area of cross section, Moment of inertia about horizontal axis and vertical axis, Inclination of principal axes, Polar moment of inertia |
| | | SUBGRADE SPRINGS : Spring stiffnesses along X, Y, and Z axes, Direction cosines of the spring axis (l,m,n) |
| | | REINFORCEMENT : This element is not used |

9. CRCK Command to input information for concrete crack model
10. Material set number, Compressive strength, Tensile strain, Compressive and Tensile strain limits (for strain controlled failure - Not used), Fracture energy, Shear retention factor, Criteria for concrete cracking (1 for stress based failure) and post-peak softening (1 for linear softening).
11. NONL Command to input information for Nonlinear behavior
12. Yield criterion (11 for Ottosen's criterion), Number of hardening segments in the stress-strain curve.
13. Stress and strains for each segment of the curve. (Note : The criterion for springs are specified as 2. This information is not used in the computation, since, direct load-deflection curves are given)
14. STRN Command to input shrinkage strains
15. Shrinkage strains along X, Y, and Z directions (negative)
16. DIST Command to input pressure and gravity loads
17. Code for pressure and gravity loads (1 if present)
18. Direction cosines and coefficient for gravity loads (Note : Pressure loads are not considered here)
19. END End of INPUT data
20. MACR Begin solution control information
21. PROP Proportional load coefficient input control
22. TANG Forms the Tangent stiffness matrix (used only in the beginning)
23. FORM Forms the RHS vector (used only in the beginning)
24. LOOP Starts an iteration loop (Number of iterations given as data) (Note : This command can also start an increment loop and can be nested up to 8 levels deep)
25. SOLV Solves the simultaneous equations for displacements
26. NONL Computes strains, stresses and modifies these stresses for cracks and plasticity in concrete elements, for loss of contact in subgrade spring elements.
27. STIF Reformulates the stiffness at prescribed intervals
28. NEXT End of iteration or increment loop
29. DISM Prints out prescribed number of nodal displacement component(specified) in the descending order of magnitude.
30. DISX Prints out displacements at the top surface along a prescribed Y-coordinate.

Zienkiewicz, O.C. (1979) "The Finite Element Method", Third Edition, Tata McGraw-Hill Publishing Co. Ltd., New Delhi, pp. 677-757.

REFERENCE :

- *****
- 38. STOP End of solution
 - 37. STOR Stores information for restart facility.
 - 36. Proportional load table
Number, Index, Min. Time, Max. Time, 5 Coefficients for load
Coefficient 1 gives the current increment size.
(Ref. Zienkiewicz 1979 for details)
 - 35. END End of Macro commands
 - 34. INCR Increments loads.
 - 33. MESH Calls data input routines for input of forces/material properties
 - 32. CAED Prints out results in CAEDS format for post-processing.
 - 31. DISY Prints out displacements at the top surface along a
prescribed X-coordinate.

```

*****
** INPUT DATA FILE FOR ANALYSIS OF PAVEMENTS SUBJECTED TO
** NIGHT-TIME TEMPERATURE CURLING, PARTIAL LOSS OF SUPPORT (LEVEL 3)
** AND WHEEL LOADS
**
** NOTE : UNITS EMPLOYED
**
** LENGTH : FEET
** FORCE : KIPS
** TEMPERATURE : FARENHEIT
**
** ALL DERIVED UNITS ARE CONSISTENT WITH THESE UNITS
*****
FEAP * PAVEMENT - LOSS SUP. 3, WHEEL LOAD, NIGHT TEMP, SOFT SPRINGS BELOW
2598 1126 12 3 6 20
(Note : Number of nodes, Number of elements, Number of material se
Number of dimensions, Number of degrees of freedom,
Maximum number of nodes per element - OPTIONAL)
CAED .. /pwit00.unv
(Note : Full patch and mesh data input file generated
by CAEDS pre-processor)
CTMP (Note : Command to input temperature gradient)
0.0 20.0 0.8333 0.0
(Note : Pavement top surface temperature,
Pavement bottom surface temperature,
Z-coordinate of the top surface,
Z-coordinate of the bottom surface)
MATE (Note : Command to read-in material properties)
1 4 (Note : Material set number, Material type - 4 - Dummy concrete)
761760.0 0.20 0.145 3 3 (Note : E, Nu, w, Number of Gauss and stress poi
0.6E-5 (Note : Coefficient of Thermal Expansion)
2 2 (Note : Material type - 2 - subgrade spring)
1.0000 691.0 1 0 0 0 1 0 0 0 1 (Note : Kx, Ky, Kz, Direction costi
3 4 (Note : Material type - 4 - concrete)
761760.0 0.20 0.145 3 3
0.6E-5
4 1 (Note : Material type - 1 - Beam: E, G, A, Ixx, Iyy, Angle, J)
4291200. 1650461.5 5.45414E-03 2.36785E-06 2.36785E-06 0.4.73572E-06
5 2
1.0E00 1.0E06 1 0 0 0 1 0 0 0 1
6 2
1.0000 1.0000 1.0 1 0 0 0 1 0 0 0 1
7 2
1.0000 1.0000 1.0 1 0 0 0 1 0 0 0 1
8 2
1.0000 1.0000 1.0 1 0 0 0 1 0 0 0 1
9 2
1.0E-08 1.0E00 1.0E00 1 0 0 0 1 0 0 0 1
10 1
4291200. 1650461.5 5.45414E-03 2.36785E-06 2.36785E-06 0.4.73572E-06
11 2
1.0000 1.0000 1.0 1 0 0 0 1 0 0 0 1
12 2
1.0000 1.0000 691.0 1 0 0 0 1 0 0 0 1
CRCK (Note : Crack parameters input for concrete material set 1)
1 576.0 57.60 0.1 0.1 1.0E-2 0.2 1 1
(Note: Material, fc, ft, ecm, etmax, Gf, Beta, Criteria for
Cracking : 1 - Stress based
and post-peak tension softening : 1 - Linear softening)

```


CRCK

3 576.0 57.60 0.1 0.1 1.0E-2 0.2 1 1
(Note: Material, f_c, f_t, e_{cmax}, e_{tmax}, Gf, Beta, criteria for
cracking : 1 - Stress based
and post-peak tension softening : 1 - Linear softening)
NONL (Note : Command to input data for Nonlinear materials)
11 0
*** dummy concrete (unused)
500.0 0.0
(Note : Reference stress, Number of stress-strain segments)
2 0
*** base spring
00.0 0.0
(Note : Zero for the first data indicates no tension)
11 0
*** concrete
500.0 0.0
(Note : Reference stress, segments in the stress-strain curve)
2 0
1000.0 0.0
2 0
*** interior dowel springs
10000.00 1.0
2 0
*** first line of base springs from joint
00.0 0.0
2 0
*** second line of base springs from joint
00.0 0.0
2 0
*** third line of base springs from joint
00.0 0.0
2 12
1000.0 0.0
-4.5 -8.66E-2 -4.28 -8.66E-4 -3.66 -6.18E-4 -2.87 -3.51E-4
-1.90 -1.22E-4 -1.05 -2.05E-5 1.05 2.05E-5 1.90 1.22E-4
2.87 3.51E-4 3.66 6.18E-4 4.28 8.66E-4
4.5 8.66E-2 (Note : Stress-strain curve - 12 segments - stress, strain)
2 0
10000.0 0.0
2 0
*** joint springs
10000.0 1.0
2 0
*** extreme base springs
00.0 0.0
DIST (Note : Command for distributed load data)
0 1
(Note : Code for pressure loading, code for gravity loading)
0.0 0.0 -1.0 1.0
(Note : Direction cosines and coefficient for gravity)
END
MACR (Note : Termination of input data)
PROPR (Note : Command to start execution)
FORM (Read proportional load data 1)
TANG (Form tangent stiffness - first time)
FORM (Form Right hand side - first time)
LOOP (Start Iteration Loop)
SOLV (Solve equations)
NONL (Compute and revise stresses and imbalance loads)
STIF (Recompute stiffness matrix - Once in 3 loops)
NEXT
DISM (Print Max. Z-Displacements(3) at pt. 3)
5.3 (Print Z-displacements along X=1.0 coordinate)
1.0 (Output CAEDS files for post processing)
MESH (Re-read forces - for wheel loads)
STIF (Form stiffness matrix)
PROP (Read proportional Load data 2)
LOOP (Increment loop - 1 increment)
INCR (Increment load and form RHS)
SOLV (Iteration loop - 12 iterations Max.)
NONL (Solve equations)
STIF (As before)
5.3 (End Iteration Loop)
NEXT

```

DISM              1.      5.3
DISX              1.      1.0
NEXT              1.
PROP              1.      (End Increment loop)
LOOP              2.      (Read proportional load data 3)
INCR              12.
LOOP              2.
SOLV              5.
NONL              2.
STIF              1.0
NEXT              5.3
DISM              1.0
DISX              1.0
NEXT              5.3
CAFD              1.0
STOR              5.3
END              1.0
FORC              1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
          (Proportation load data - No., Index,
          Tmin, Tmax, A1 to A5 - A1 is the proportional loa
          Command to input nodal loads)
          (Node, generation increment, Loads (6 D.O.F
          1 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1555 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1556 0 0.0 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1557 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1576 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1577 0 0.0 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1578 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
2598 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
          0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
END
1 1 0.0 1.0 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
          (Proportional cards - 2)
1 1 0.0 1.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
          (Proportional cards - 3)
          (End data input)
          (End program execution)
STOP

```

 ** INPUT DATA FILE FOR ANALYSIS OF PAVEMENTS WITH CONCRETE FULL DEPTH PATCH
 ** AND A SHRINKAGE OF 0.00002
 **
 ** NOTE : UNITS EMPLOYED
 **
 ** LENGTH : FEET
 ** FORCE : KIPS
 ** TEMPERATURE : FARENHEIT
 **
 ** ALL DERIVED UNITS ARE CONSISTENT WITH THESE UNITS

FEAP * PAVEMENT - WHEEL LOAD, PATCH, SHRINKAGE LEVEL 1
 CAED/pvpatch.unv
 (Note : command for directly reading CAEDS pre-processed file)

MATE
 1 4 *** Patch material data
 608342.0 0.16 0.145 3
 2 2 *** Upgrade stiffness data
 1.0000 1.0000 691.0 1 0 0 0 1 0 0 1
 3 4 *** Original concrete data
 720000.0 0.20 0.145 3
 4 1 *** Dowl bar data
 4292120. 1650461.5 5.45414E-03 2.36725E-06 2.36725E-06 0 4.73550E-06
 5 2 *** Dowl-concrete interface spring stiffness (Interior)
 1.0E00 1.0E06 1 0 0 0 1 0 0 1
 6 2 *** Loss of stiffness level 1
 1.0000 1.0000 691.0 1 0 0 0 1 0 0 1
 7 2 *** Loss of stiffness level 2
 1.0000 1.0000 691.0 1 0 0 0 1 0 0 1
 8 2 *** Loss of stiffness level 3
 1.0000 1.0000 691.0 1 0 0 0 1 0 0 1
 9 2 *** End dowl-concrete interface spring
 1.0E00 1.0E00 1 0 0 0 1 0 0 0 1
 10 1 *** Far-end dowels
 4291200. 1650461.5 5.45414E-03 2.36785E-06 2.36785E-06 0 4.73572E-06
 11 2 *** Joint interface springs
 1.0000 1.0000 1.0 1 0 0 0 1 0 0 1
 12 2 *** Extreme subgrade springs
 1.0000 1.0000 691.0 1 0 0 0 1 0 0 1
 13 1 *** Patch tie bars
 4291200. 1650461.5 5.45414E-03 2.36785E-06 2.36785E-06 0 4.73572E-06
 CRCK
 1 555.12 53.0 0.1 0.1 0.0132 0.05 1 1
 CRCK
 3 777.6 55.0 0.1 0.1 0.0132 0.05 1 1
 NONL
 11 0
 555.0 0.0
 2 0
 *** patch material
 00.0 0.0
 11 0
 *** concrete
 777.0 0.0
 2 0
 *** dowels
 1000.0 0.0
 2 0
 *** interior dowl springs
 100000.00 1.0
 2 0
 *** Base springs for Loss of support level 1


```

DISX
NEXT
CAED
STOR
END
1 1 0.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
PRIN
FORC
1 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1855 0 0.0 0.0 0.0 -1.0 0.0 0.0 0.0 0.0
1856 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1857 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1876 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1877 0 0.0 0.0 -1.0 0.0 0.0 0.0 0.0 0.0
1878 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
2630 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
NOPR
0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
END
1 1 0.0 1.0 4.0 0.0 0.0 0.0 0.0 0.0
1 1 0.0 1.0 4.0 0.0 0.0 0.0 0.0 0.0
STOP

```

(Note : Command to echo input data)

1. 7.0

CAEDS INPUT FILE

The CAEDS structural analysis program developed by IBM has a data pre- and post-processor module. This module greatly facilitates preparation of the finite element mesh and post processing the results. The required data are output in the form of CAEDS universal files for general purpose use. These files are particularly useful for interfacing with other analysis programs.

The program developed in this study uses an interface to read-in the mesh information from a CAEDS file. The name of the file is supplied to the program through the main input file.

In this study, two universal input files were employed -- one for the analyses of pavements, and the other for the analyses of patched pavements. A listing of the file for the latter is given here. These files are also available on diskette.

Some comments necessary for identifying the various data are given in the file. For a detailed description, the manuals supplied with the CAEDS software can be referred.

An important comment is the use of 'groups' facility. A set of elements or nodes can be grouped in CAEDS and this information can be written out in the universal file. This facility has been exploited in the analysis program for generating temperature information, patch element information, and information to compute the upgrade spring stiffnesses.

 ** INPUT FILE FROM CAEDS FOR ANALYSIS OF PAVEMENTS WITH PATCH
 **

-1
 151
 BVPATCHO

NONE
 CAEDS VAR1M1: Pre/Post Processing 24-SEP-91 11:17:29

CAEDS VAR1M1: Pre/Post Processing 16-OCT-91 18:52:10

-1
 -1
 749

FE MODEL1 1

-1 (Coordinate data input)
 -1 (Node)

| Node | X-Coord | Y-Coord | Z-Coord |
|------|-----------------|--------------|--------------|
| 1 | 11 4.002498E+01 | 9.999995E-01 | 0.000000E+00 |
| 2 | 11 3.802498E+01 | 0.000000E+00 | 0.000000E+00 |
| 3 | 11 4.002498E+01 | 0.000000E+00 | 0.000000E+00 |
| 4 | 11 4.002498E+01 | 0.000000E+00 | 0.000000E+00 |
| 5 | 11 4.002498E+01 | 0.000000E+00 | 0.000000E+00 |
| 6 | 11 3.802498E+01 | 1.999999E+00 | 0.000000E+00 |
| 7 | 11 4.002498E+01 | 1.999999E+00 | 0.000000E+00 |
| 8 | 11 4.002498E+01 | 1.999999E+00 | 0.000000E+00 |
| 9 | 11 4.002498E+01 | 2.999998E+00 | 0.000000E+00 |
| 10 | 11 3.802498E+01 | 0.000000E+00 | 2.083325E-01 |
| 11 | 11 4.002498E+01 | 0.000000E+00 | 2.083325E-01 |
| 12 | 11 4.002498E+01 | 0.000000E+00 | 3.124986E-01 |
| 13 | 11 4.002498E+01 | 0.000000E+00 | 3.124986E-01 |
| 14 | 11 3.802498E+01 | 1.999999E+00 | 2.083325E-01 |
| 15 | 11 3.802498E+01 | 1.999999E+00 | 2.083325E-01 |
| 16 | 11 4.002498E+01 | 2.999998E+00 | 3.124986E-01 |
| 17 | 11 4.002498E+01 | 2.999998E+00 | 3.124986E-01 |
| 18 | 11 4.002498E+01 | 3.999997E+00 | 0.000000E+00 |
| 19 | 11 3.802498E+01 | 3.999997E+00 | 0.000000E+00 |
| 20 | 11 4.002498E+01 | 3.999997E+00 | 1.041662E-01 |
| 21 | 11 4.002498E+01 | 4.999997E+00 | 0.000000E+00 |
| 22 | 11 4.002498E+01 | 3.999997E+00 | 2.083325E-01 |
| 23 | 11 3.802498E+01 | 3.999997E+00 | 2.083325E-01 |
| 24 | 11 4.002498E+01 | 3.999997E+00 | 3.124986E-01 |
| 25 | 11 4.002498E+01 | 4.999997E+00 | 2.083325E-01 |
| 26 | 11 3.802498E+01 | 0.000000E+00 | 4.166648E-01 |
| 27 | 11 4.002498E+01 | 0.000000E+00 | 4.166648E-01 |
| 28 | 11 4.002498E+01 | 0.000000E+00 | 4.166648E-01 |
| 29 | 11 4.002498E+01 | 0.000000E+00 | 5.208309E-01 |
| 30 | 11 4.002498E+01 | 1.999999E+00 | 4.166648E-01 |
| 31 | 11 3.802498E+01 | 1.999999E+00 | 4.166648E-01 |
| 32 | 11 4.002498E+01 | 2.999998E+00 | 4.166648E-01 |
| 33 | 11 4.002498E+01 | 1.999999E+00 | 5.208309E-01 |
| 34 | 11 3.802498E+01 | 3.999997E+00 | 4.166648E-01 |
| 35 | 11 4.002498E+01 | 3.999997E+00 | 4.166648E-01 |
| 36 | 11 4.002498E+01 | 4.999997E+00 | 5.208309E-01 |
| 37 | 11 4.002498E+01 | 5.999997E+00 | 0.000000E+00 |
| 38 | 11 4.002498E+01 | 5.999997E+00 | 0.000000E+00 |

| | | | | |
|-----|----|--------------|--------------|--------------|
| 99 | 11 | 4.002498E+01 | 1.099999E+01 | 0.000000E+00 |
| 100 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 |
| 101 | 11 | 3.802498E+01 | 1.199999E+01 | 0.000000E+00 |
| 102 | 11 | 4.002498E+01 | 1.199999E+01 | 1.041662E-01 |
| 103 | 11 | 4.002498E+01 | 9.999994E+00 | 2.083325E-01 |
| 104 | 11 | 3.802498E+01 | 9.999994E+00 | 2.083325E-01 |
| 105 | 11 | 4.002498E+01 | 9.999994E+00 | 3.124986E-01 |
| 106 | 11 | 4.002498E+01 | 1.099999E+01 | 2.083325E-01 |
| 107 | 11 | 4.002498E+01 | 1.199999E+01 | 2.083325E-01 |
| 108 | 11 | 3.802498E+01 | 1.199999E+01 | 2.083325E-01 |
| 109 | 11 | 4.002498E+01 | 1.199999E+01 | 3.124986E-01 |
| 110 | 11 | 4.002498E+01 | 9.999994E+00 | 4.166648E-01 |
| 111 | 11 | 3.802498E+01 | 9.999994E+00 | 4.166648E-01 |
| 112 | 11 | 4.002498E+01 | 9.999994E+00 | 5.208309E-01 |
| 113 | 11 | 4.002498E+01 | 1.099999E+01 | 4.166648E-01 |
| 114 | 11 | 4.002498E+01 | 1.199999E+01 | 4.166648E-01 |
| 115 | 11 | 3.802498E+01 | 1.199999E+01 | 4.166648E-01 |
| 116 | 11 | 4.002498E+01 | 1.199999E+01 | 5.208309E-01 |
| 117 | 11 | 4.002498E+01 | 9.999994E+00 | 6.249971E-01 |
| 118 | 11 | 3.802498E+01 | 9.999994E+00 | 6.249971E-01 |
| 119 | 11 | 4.002498E+01 | 9.999994E+00 | 7.291633E-01 |
| 120 | 11 | 4.002498E+01 | 9.999994E+00 | 8.333294E-01 |
| 121 | 11 | 3.802498E+01 | 9.999994E+00 | 8.333294E-01 |
| 122 | 11 | 4.002498E+01 | 1.099999E+01 | 6.249971E-01 |
| 123 | 11 | 4.002498E+01 | 1.199999E+01 | 6.249971E-01 |
| 124 | 11 | 3.802498E+01 | 1.199999E+01 | 6.249971E-01 |
| 125 | 11 | 4.002498E+01 | 1.199999E+01 | 7.291633E-01 |
| 126 | 11 | 4.002498E+01 | 1.099999E+01 | 8.333294E-01 |
| 127 | 11 | 4.002498E+01 | 1.199999E+01 | 8.333294E-01 |
| 128 | 11 | 3.802498E+01 | 1.199999E+01 | 8.333294E-01 |
| 129 | 11 | 3.602498E+01 | 0.000000E+00 | 0.000000E+00 |
| 130 | 11 | 3.602498E+01 | 9.999995E-01 | 0.000000E+00 |
| 131 | 11 | 3.602498E+01 | 0.000000E+00 | 1.041662E-01 |
| 132 | 11 | 3.452498E+01 | 0.000000E+00 | 0.000000E+00 |
| 133 | 11 | 3.602498E+01 | 1.999999E+00 | 0.000000E+00 |
| 134 | 11 | 3.602498E+01 | 1.999999E+00 | 1.041662E-01 |
| 135 | 11 | 3.452498E+01 | 1.999998E+00 | 0.000000E+00 |
| 136 | 11 | 3.602498E+01 | 2.999998E+00 | 0.000000E+00 |
| 137 | 11 | 3.602498E+01 | 0.000000E+00 | 2.083325E-01 |
| 138 | 11 | 3.602498E+01 | 9.999995E-01 | 2.083325E-01 |
| 139 | 11 | 3.452498E+01 | 0.000000E+00 | 2.083325E-01 |
| 140 | 11 | 3.602498E+01 | 0.000000E+00 | 3.124986E-01 |
| 141 | 11 | 3.602498E+01 | 1.999999E+00 | 2.083325E-01 |
| 142 | 11 | 3.452498E+01 | 1.999998E+00 | 2.083325E-01 |
| 143 | 11 | 3.602498E+01 | 2.999998E+00 | 2.083325E-01 |
| 144 | 11 | 3.602498E+01 | 1.999999E+00 | 3.124986E-01 |
| 145 | 11 | 3.602498E+01 | 3.999997E+00 | 0.000000E+00 |
| 146 | 11 | 3.602498E+01 | 3.999997E+00 | 1.041662E-01 |
| 147 | 11 | 3.452498E+01 | 3.999993E+00 | 0.000000E+00 |
| 148 | 11 | 3.602498E+01 | 4.999997E+00 | 0.000000E+00 |
| 149 | 11 | 3.602498E+01 | 3.999997E+00 | 2.083325E-01 |
| 150 | 11 | 3.452498E+01 | 3.999993E+00 | 2.083325E-01 |
| 151 | 11 | 3.602498E+01 | 3.999997E+00 | 3.124986E-01 |
| 152 | 11 | 3.602498E+01 | 4.999997E+00 | 2.083325E-01 |

| | | | | | |
|-----|----|--------------|--------------|--------------|---|
| 99 | 11 | 4.002498E+01 | 1.199999E+00 | 0.000000E+00 | 0 |
| 100 | 11 | 4.002498E+01 | 1.199999E+00 | 0.000000E+00 | 0 |
| 101 | 11 | 3.802498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 102 | 11 | 4.002498E+01 | 1.199999E+00 | 0.000000E+00 | 0 |
| 103 | 11 | 4.002498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 104 | 11 | 3.802498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 105 | 11 | 4.002498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 106 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 107 | 11 | 3.802498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 108 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 109 | 11 | 4.002498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 110 | 11 | 4.002498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 111 | 11 | 3.802498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 112 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 113 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 114 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 115 | 11 | 3.802498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 116 | 11 | 4.002498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 117 | 11 | 3.802498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 118 | 11 | 4.002498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 119 | 11 | 4.002498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 120 | 11 | 3.802498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 121 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 122 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 123 | 11 | 3.802498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 124 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 125 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 126 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 127 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 128 | 11 | 3.802498E+01 | 1.199999E+01 | 0.000000E+00 | 0 |
| 129 | 11 | 3.802498E+01 | 9.999994E+00 | 0.000000E+00 | 0 |
| 130 | 11 | 3.602498E+01 | 0.000000E+00 | 1.041662E-01 | 0 |
| 131 | 11 | 3.452498E+01 | 0.000000E+00 | 0.000000E+00 | 0 |
| 132 | 11 | 3.602498E+01 | 1.999999E+00 | 0.000000E+00 | 0 |
| 133 | 11 | 3.602498E+01 | 1.999999E+00 | 0.000000E+00 | 0 |
| 134 | 11 | 3.452498E+01 | 1.999999E+00 | 0.000000E+00 | 0 |
| 135 | 11 | 3.602498E+01 | 2.999999E+00 | 0.000000E+00 | 0 |
| 136 | 11 | 3.602498E+01 | 2.999999E+00 | 0.000000E+00 | 0 |
| 137 | 11 | 3.602498E+01 | 9.999994E+00 | 2.083325E-01 | 0 |
| 138 | 11 | 3.452498E+01 | 9.999994E+00 | 2.083325E-01 | 0 |
| 139 | 11 | 3.602498E+01 | 0.000000E+00 | 3.124986E-01 | 0 |
| 140 | 11 | 3.602498E+01 | 1.999999E+00 | 2.083325E-01 | 0 |
| 141 | 11 | 3.452498E+01 | 1.999999E+00 | 2.083325E-01 | 0 |
| 142 | 11 | 3.602498E+01 | 2.999999E+00 | 2.083325E-01 | 0 |
| 143 | 11 | 3.602498E+01 | 2.999999E+00 | 2.083325E-01 | 0 |
| 144 | 11 | 3.602498E+01 | 3.999999E+00 | 0.000000E+00 | 0 |
| 145 | 11 | 3.602498E+01 | 3.999999E+00 | 0.000000E+00 | 0 |
| 146 | 11 | 3.452498E+01 | 3.999999E+00 | 0.000000E+00 | 0 |
| 147 | 11 | 3.602498E+01 | 4.999999E+00 | 0.000000E+00 | 0 |
| 148 | 11 | 3.602498E+01 | 4.999999E+00 | 0.000000E+00 | 0 |
| 149 | 11 | 3.452498E+01 | 3.999999E+00 | 2.083325E-01 | 0 |
| 150 | 11 | 3.602498E+01 | 3.999999E+00 | 2.083325E-01 | 0 |
| 151 | 11 | 3.602498E+01 | 4.999999E+00 | 0.000000E+00 | 0 |
| 152 | 11 | 3.452498E+01 | 0.000000E+00 | 4.166648E-01 | 0 |
| 153 | 11 | 3.602498E+01 | 0.000000E+00 | 4.166648E-01 | 0 |
| 154 | 11 | 3.602498E+01 | 9.999995E-01 | 4.166648E-01 | 0 |
| 155 | 11 | 3.602498E+01 | 0.000000E+00 | 5.208309E-01 | 0 |
| 156 | 11 | 3.602498E+01 | 1.999999E+00 | 4.166648E-01 | 0 |
| 157 | 11 | 3.602498E+01 | 1.999999E+00 | 4.166648E-01 | 0 |
| 158 | 11 | 3.452498E+01 | 1.999999E+00 | 4.166648E-01 | 0 |

| | | | | | |
|----|--------------|--------------|--------------|---|-----|
| 11 | 4.002498E+01 | 1.099999E+01 | 0.000000E+00 | 0 | 99 |
| 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 | 100 |
| 11 | 3.802498E+01 | 1.199999E+01 | 0.000000E+00 | 0 | 101 |
| 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 | 0 | 102 |
| 11 | 4.002498E+01 | 9.999994E+00 | 2.083325E-01 | 0 | 103 |
| 11 | 4.002498E+01 | 9.999994E+00 | 2.083325E-01 | 0 | 104 |
| 11 | 3.802498E+01 | 9.999994E+00 | 2.083325E-01 | 0 | 105 |
| 11 | 4.002498E+01 | 9.999994E+00 | 3.124986E-01 | 0 | 106 |
| 11 | 4.002498E+01 | 9.999994E+00 | 3.124986E-01 | 0 | 107 |
| 11 | 4.002498E+01 | 9.999994E+00 | 2.083325E-01 | 0 | 108 |
| 11 | 4.002498E+01 | 9.999994E+00 | 2.083325E-01 | 0 | 109 |
| 11 | 4.002498E+01 | 9.999994E+00 | 3.124986E-01 | 0 | 110 |
| 11 | 4.002498E+01 | 9.999994E+00 | 3.124986E-01 | 0 | 111 |
| 11 | 3.802498E+01 | 9.999994E+00 | 4.166648E-01 | 0 | 112 |
| 11 | 4.002498E+01 | 9.999994E+00 | 4.166648E-01 | 0 | 113 |
| 11 | 4.002498E+01 | 9.999994E+00 | 4.166648E-01 | 0 | 114 |
| 11 | 4.002498E+01 | 9.999994E+00 | 4.166648E-01 | 0 | 115 |
| 11 | 3.802498E+01 | 9.999994E+00 | 5.208309E-01 | 0 | 116 |
| 11 | 4.002498E+01 | 9.999994E+00 | 5.208309E-01 | 0 | 117 |
| 11 | 4.002498E+01 | 9.999994E+00 | 5.208309E-01 | 0 | 118 |
| 11 | 4.002498E+01 | 9.999994E+00 | 6.249971E-01 | 0 | 119 |
| 11 | 4.002498E+01 | 9.999994E+00 | 6.249971E-01 | 0 | 120 |
| 11 | 4.002498E+01 | 9.999994E+00 | 6.249971E-01 | 0 | 121 |
| 11 | 3.802498E+01 | 9.999994E+00 | 6.249971E-01 | 0 | 122 |
| 11 | 4.002498E+01 | 9.999994E+00 | 6.249971E-01 | 0 | 123 |
| 11 | 3.802498E+01 | 9.999994E+00 | 6.249971E-01 | 0 | 124 |
| 11 | 4.002498E+01 | 9.999994E+00 | 7.291633E-01 | 0 | 125 |
| 11 | 4.002498E+01 | 9.999994E+00 | 7.291633E-01 | 0 | 126 |
| 11 | 4.002498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 127 |
| 11 | 4.002498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 128 |
| 11 | 3.802498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 129 |
| 11 | 4.002498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 130 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 131 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 132 |
| 11 | 3.452498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 133 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 134 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 135 |
| 11 | 3.452498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 136 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 137 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 138 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 139 |
| 11 | 3.452498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 140 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 141 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 142 |
| 11 | 3.452498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 143 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 144 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 145 |
| 11 | 3.452498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 146 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 147 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 148 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 149 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 150 |
| 11 | 3.452498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 151 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 152 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 153 |
| 11 | 3.452498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 154 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 155 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 156 |
| 11 | 3.452498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 157 |
| 11 | 3.602498E+01 | 9.999994E+00 | 8.333294E-01 | 0 | 158 |

| | | | | | | |
|-----|---|---|----|--------------|--------------|--------------|
| 99 | 0 | 0 | 11 | 4.002498E+01 | 1.099999E+01 | 0.000000E+00 |
| 100 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 0.000000E+00 |
| 101 | 0 | 0 | 11 | 3.802498E+01 | 1.199999E+01 | 0.000000E+00 |
| 102 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 1.041662E-01 |
| 103 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 2.083325E-01 |
| 104 | 0 | 0 | 11 | 3.802498E+01 | 9.999994E+00 | 2.083325E-01 |
| 105 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 3.124986E-01 |
| 106 | 0 | 0 | 11 | 4.002498E+01 | 1.099999E+01 | 2.083325E-01 |
| 107 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 2.083325E-01 |
| 108 | 0 | 0 | 11 | 3.802498E+01 | 1.199999E+01 | 2.083325E-01 |
| 109 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 3.124986E-01 |
| 110 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 4.166648E-01 |
| 111 | 0 | 0 | 11 | 3.802498E+01 | 9.999994E+00 | 4.166648E-01 |
| 112 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 5.208309E-01 |
| 113 | 0 | 0 | 11 | 4.002498E+01 | 1.099999E+01 | 4.166648E-01 |
| 114 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 4.166648E-01 |
| 115 | 0 | 0 | 11 | 3.802498E+01 | 1.199999E+01 | 4.166648E-01 |
| 116 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 5.208309E-01 |
| 117 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 6.249971E-01 |
| 118 | 0 | 0 | 11 | 3.802498E+01 | 9.999994E+00 | 6.249971E-01 |
| 119 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 7.291633E-01 |
| 120 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 8.333294E-01 |
| 121 | 0 | 0 | 11 | 3.802498E+01 | 9.999994E+00 | 8.333294E-01 |
| 122 | 0 | 0 | 11 | 4.002498E+01 | 1.099999E+01 | 6.249971E-01 |
| 123 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 6.249971E-01 |
| 124 | 0 | 0 | 11 | 3.802498E+01 | 1.199999E+01 | 6.249971E-01 |
| 125 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 7.291633E-01 |
| 126 | 0 | 0 | 11 | 4.002498E+01 | 1.099999E+01 | 8.333294E-01 |
| 127 | 0 | 0 | 11 | 4.002498E+01 | 1.199999E+01 | 8.333294E-01 |
| 128 | 0 | 0 | 11 | 3.802498E+01 | 1.199999E+01 | 8.333294E-01 |
| 129 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 0.000000E+00 |
| 130 | 0 | 0 | 11 | 3.602498E+01 | 9.999995E-01 | 0.000000E+00 |
| 131 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 1.041662E-01 |
| 132 | 0 | 0 | 11 | 3.452498E+01 | 0.000000E+00 | 0.000000E+00 |
| 133 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 0.000000E+00 |
| 134 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 1.041662E-01 |
| 135 | 0 | 0 | 11 | 3.452498E+01 | 1.999998E+00 | 0.000000E+00 |
| 136 | 0 | 0 | 11 | 3.602498E+01 | 2.999998E+00 | 0.000000E+00 |
| 137 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 2.083325E-01 |
| 138 | 0 | 0 | 11 | 3.602498E+01 | 9.999995E-01 | 2.083325E-01 |
| 139 | 0 | 0 | 11 | 3.452498E+01 | 0.000000E+00 | 2.083325E-01 |
| 140 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 3.124986E-01 |
| 141 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 2.083325E-01 |
| 142 | 0 | 0 | 11 | 3.452498E+01 | 1.999998E+00 | 2.083325E-01 |
| 143 | 0 | 0 | 11 | 3.602498E+01 | 2.999998E+00 | 2.083325E-01 |
| 144 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 3.124986E-01 |
| 145 | 0 | 0 | 11 | 3.602498E+01 | 3.999997E+00 | 0.000000E+00 |
| 146 | 0 | 0 | 11 | 3.602498E+01 | 3.999997E+00 | 1.041662E-01 |
| 147 | 0 | 0 | 11 | 3.452498E+01 | 3.999993E+00 | 0.000000E+00 |
| 148 | 0 | 0 | 11 | 3.602498E+01 | 4.999997E+00 | 0.000000E+00 |
| 149 | 0 | 0 | 11 | 3.602498E+01 | 3.999997E+00 | 2.083325E-01 |
| 150 | 0 | 0 | 11 | 3.452498E+01 | 3.999993E+00 | 2.083325E-01 |
| 151 | 0 | 0 | 11 | 3.602498E+01 | 3.999997E+00 | 3.124986E-01 |
| 152 | 0 | 0 | 11 | 3.602498E+01 | 4.999997E+00 | 2.083325E-01 |
| 153 | 0 | 0 | 11 | 3.452498E+01 | 0.000000E+00 | 4.166648E-01 |
| 154 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 4.166648E-01 |
| 155 | 0 | 0 | 11 | 3.602498E+01 | 9.999995E-01 | 4.166648E-01 |
| 156 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 5.208309E-01 |
| 157 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 4.166648E-01 |
| 158 | 0 | 0 | 11 | 3.452498E+01 | 1.999998E+00 | 4.166648E-01 |

| | | | | | | |
|-----|---|---|----|--------------|---------------|--------------|
| 99 | 0 | 0 | 11 | 4.002498E+01 | 1.0999999E+01 | 0.000000E+00 |
| 100 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 0.000000E+00 |
| 101 | 0 | 0 | 11 | 3.802498E+01 | 1.1999999E+01 | 0.000000E+00 |
| 102 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 1.041662E-01 |
| 103 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 2.083325E-01 |
| 104 | 0 | 0 | 11 | 3.802498E+01 | 9.999994E+00 | 2.083325E-01 |
| 105 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 3.124986E-01 |
| 106 | 0 | 0 | 11 | 4.002498E+01 | 1.0999999E+01 | 2.083325E-01 |
| 107 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 2.083325E-01 |
| 108 | 0 | 0 | 11 | 3.802498E+01 | 1.1999999E+01 | 2.083325E-01 |
| 109 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 3.124986E-01 |
| 110 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 4.166648E-01 |
| 111 | 0 | 0 | 11 | 3.802498E+01 | 9.999994E+00 | 4.166648E-01 |
| 112 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 5.208309E-01 |
| 113 | 0 | 0 | 11 | 4.002498E+01 | 1.0999999E+01 | 4.166648E-01 |
| 114 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 4.166648E-01 |
| 115 | 0 | 0 | 11 | 3.802498E+01 | 1.1999999E+01 | 4.166648E-01 |
| 116 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 5.208309E-01 |
| 117 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 6.249971E-01 |
| 118 | 0 | 0 | 11 | 3.802498E+01 | 9.999994E+00 | 6.249971E-01 |
| 119 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 7.291633E-01 |
| 120 | 0 | 0 | 11 | 4.002498E+01 | 9.999994E+00 | 8.333294E-01 |
| 121 | 0 | 0 | 11 | 3.802498E+01 | 9.999994E+00 | 8.333294E-01 |
| 122 | 0 | 0 | 11 | 4.002498E+01 | 1.0999999E+01 | 6.249971E-01 |
| 123 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 6.249971E-01 |
| 124 | 0 | 0 | 11 | 3.802498E+01 | 1.1999999E+01 | 6.249971E-01 |
| 125 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 7.291633E-01 |
| 126 | 0 | 0 | 11 | 4.002498E+01 | 1.0999999E+01 | 8.333294E-01 |
| 127 | 0 | 0 | 11 | 4.002498E+01 | 1.1999999E+01 | 8.333294E-01 |
| 128 | 0 | 0 | 11 | 3.802498E+01 | 1.1999999E+01 | 8.333294E-01 |
| 129 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 0.000000E+00 |
| 130 | 0 | 0 | 11 | 3.602498E+01 | 9.999995E-01 | 0.000000E+00 |
| 131 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 1.041662E-01 |
| 132 | 0 | 0 | 11 | 3.452498E+01 | 0.000000E+00 | 0.000000E+00 |
| 133 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 0.000000E+00 |
| 134 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 1.041662E-01 |
| 135 | 0 | 0 | 11 | 3.452498E+01 | 1.999998E+00 | 0.000000E+00 |
| 136 | 0 | 0 | 11 | 3.602498E+01 | 2.999998E+00 | 0.000000E+00 |
| 137 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 2.083325E-01 |
| 138 | 0 | 0 | 11 | 3.602498E+01 | 9.999995E-01 | 2.083325E-01 |
| 139 | 0 | 0 | 11 | 3.452498E+01 | 0.000000E+00 | 2.083325E-01 |
| 140 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 3.124986E-01 |
| 141 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 2.083325E-01 |
| 142 | 0 | 0 | 11 | 3.452498E+01 | 1.999998E+00 | 2.083325E-01 |
| 143 | 0 | 0 | 11 | 3.602498E+01 | 2.999998E+00 | 2.083325E-01 |
| 144 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 3.124986E-01 |
| 145 | 0 | 0 | 11 | 3.602498E+01 | 3.999997E+00 | 0.000000E+00 |
| 146 | 0 | 0 | 11 | 3.602498E+01 | 3.999997E+00 | 1.041662E-01 |
| 147 | 0 | 0 | 11 | 3.452498E+01 | 3.999993E+00 | 0.000000E+00 |
| 148 | 0 | 0 | 11 | 3.602498E+01 | 4.999997E+00 | 0.000000E+00 |
| 149 | 0 | 0 | 11 | 3.602498E+01 | 3.999997E+00 | 2.083325E-01 |
| 150 | 0 | 0 | 11 | 3.452498E+01 | 3.999993E+00 | 2.083325E-01 |
| 151 | 0 | 0 | 11 | 3.602498E+01 | 3.999997E+00 | 3.124986E-01 |
| 152 | 0 | 0 | 11 | 3.602498E+01 | 4.999997E+00 | 2.083325E-01 |
| 153 | 0 | 0 | 11 | 3.452498E+01 | 0.000000E+00 | 4.166648E-01 |
| 154 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 4.166648E-01 |
| 155 | 0 | 0 | 11 | 3.602498E+01 | 9.999995E-01 | 4.166648E-01 |
| 156 | 0 | 0 | 11 | 3.602498E+01 | 0.000000E+00 | 5.208309E-01 |
| 157 | 0 | 0 | 11 | 3.602498E+01 | 1.999999E+00 | 4.166648E-01 |
| 158 | 0 | 0 | 11 | 3.452498E+01 | 1.999998E+00 | 4.166648E-01 |

| | | | | | | |
|------|---|---|----|--------------|--------------|--------------|
| 1179 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 2.083325E-01 |
| 1180 | 0 | 0 | 11 | 2.102498E+01 | 6.999991E+00 | 2.083325E-01 |
| 1181 | 0 | 0 | 11 | 2.052498E+01 | 5.999994E+00 | 2.083325E-01 |
| 1182 | 0 | 0 | 11 | 2.002498E+01 | 5.999997E+00 | 2.083325E-01 |
| 1183 | 0 | 0 | 11 | 2.002498E+01 | 6.999994E+00 | 2.083325E-01 |
| 1184 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 0.000000E+00 |
| 1185 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 1.041662E-01 |
| 1186 | 0 | 0 | 11 | 2.102498E+01 | 8.999994E+00 | 0.000000E+00 |
| 1187 | 0 | 0 | 11 | 2.052498E+01 | 7.999991E+00 | 0.000000E+00 |
| 1188 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 0.000000E+00 |
| 1189 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 1.041662E-01 |
| 1190 | 0 | 0 | 11 | 2.002498E+01 | 8.999994E+00 | 0.000000E+00 |
| 1191 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 2.083325E-01 |
| 1192 | 0 | 0 | 11 | 2.102498E+01 | 8.999994E+00 | 2.083325E-01 |
| 1193 | 0 | 0 | 11 | 2.052498E+01 | 7.999991E+00 | 2.083325E-01 |
| 1194 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 2.083325E-01 |
| 1195 | 0 | 0 | 11 | 2.002498E+01 | 8.999994E+00 | 2.083325E-01 |
| 1196 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 0.000000E+00 |
| 1197 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 1.041662E-01 |
| 1198 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1199 | 0 | 0 | 11 | 2.102498E+01 | 1.099999E+01 | 0.000000E+00 |
| 1200 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 1.041662E-01 |
| 1201 | 0 | 0 | 11 | 2.052498E+01 | 9.999994E+00 | 0.000000E+00 |
| 1202 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 0.000000E+00 |
| 1203 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 1.041662E-01 |
| 1204 | 0 | 0 | 11 | 2.052498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1205 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1206 | 0 | 0 | 11 | 2.002498E+01 | 1.099999E+01 | 0.000000E+00 |
| 1207 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 1.041662E-01 |
| 1208 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 2.083325E-01 |
| 1209 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1210 | 0 | 0 | 11 | 2.102498E+01 | 1.099999E+01 | 2.083325E-01 |
| 1211 | 0 | 0 | 11 | 2.052498E+01 | 9.999994E+00 | 2.083325E-01 |
| 1212 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 2.083325E-01 |
| 1213 | 0 | 0 | 11 | 2.052498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1214 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1215 | 0 | 0 | 11 | 2.002498E+01 | 1.099999E+01 | 2.083325E-01 |
| 1216 | 0 | 0 | 11 | 2.102498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1217 | 0 | 0 | 11 | 2.102498E+01 | 9.999993E-01 | 4.166648E-01 |
| 1218 | 0 | 0 | 11 | 2.102498E+01 | 0.000000E+00 | 5.208309E-01 |
| 1219 | 0 | 0 | 11 | 2.002498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1220 | 0 | 0 | 11 | 2.052498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1221 | 0 | 0 | 11 | 2.002498E+01 | 0.000000E+00 | 5.208309E-01 |
| 1222 | 0 | 0 | 11 | 2.002498E+01 | 9.999995E-01 | 4.166648E-01 |
| 1223 | 0 | 0 | 11 | 2.102498E+01 | 1.999998E+00 | 4.166648E-01 |
| 1224 | 0 | 0 | 11 | 2.102498E+01 | 1.999998E+00 | 5.208309E-01 |
| 1225 | 0 | 0 | 11 | 2.102498E+01 | 2.999997E+00 | 4.166648E-01 |
| 1226 | 0 | 0 | 11 | 2.052498E+01 | 1.999998E+00 | 4.166648E-01 |
| 1227 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 5.208309E-01 |
| 1228 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 4.166648E-01 |
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| 1231 | 0 | 0 | 11 | 2.102498E+01 | 3.999997E+00 | 5.208309E-01 |
| 1232 | 0 | 0 | 11 | 2.102498E+01 | 4.999994E+00 | 4.166648E-01 |
| 1233 | 0 | 0 | 11 | 2.052498E+01 | 3.999993E+00 | 4.166648E-01 |
| 1234 | 0 | 0 | 11 | 2.002498E+01 | 3.999997E+00 | 5.208309E-01 |
| 1235 | 0 | 0 | 11 | 2.002498E+01 | 3.999997E+00 | 4.166648E-01 |
| 1236 | 0 | 0 | 11 | 2.002498E+01 | 4.999997E+00 | 4.166648E-01 |
| 1237 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 4.166648E-01 |
| 1238 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 5.208309E-01 |

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11 2.052498E+01 5.999994E+00 2.083325E-01
11 2.002498E+01 5.999997E+00 2.083325E-01
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11 2.102498E+01 7.999994E+00 0.000000E+00
11 2.102498E+01 7.999994E+00 1.041662E-01
11 2.102498E+01 8.999994E+00 0.000000E+00
11 2.052498E+01 7.999991E+00 0.000000E+00
11 2.002498E+01 7.999994E+00 0.000000E+00
11 2.002498E+01 8.999994E+00 1.041662E-01
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11 2.102498E+01 7.999994E+00 2.083325E-01
11 2.102498E+01 8.999994E+00 2.083325E-01
11 2.052498E+01 7.999991E+00 2.083325E-01
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11 2.052498E+01 9.999994E+00 0.000000E+00
11 2.002498E+01 9.999994E+00 0.000000E+00
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11 2.052498E+01 1.199999E+01 0.000000E+00
11 2.002498E+01 1.199999E+01 0.000000E+00
11 2.002498E+01 1.099999E+01 0.000000E+00
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11 2.052498E+01 9.999994E+00 2.083325E-01
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11 2.102498E+01 0.000000E+00 4.166648E-01
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11 2.102498E+01 0.000000E+00 5.208309E-01
11 2.002498E+01 0.000000E+00 4.166648E-01
11 2.052498E+01 0.000000E+00 4.166648E-01
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11 2.102498E+01 3.999997E+00 4.166648E-01
11 2.102498E+01 3.999997E+00 5.208309E-01
11 2.102498E+01 4.999994E+00 4.166648E-01
11 2.052498E+01 3.999993E+00 4.166648E-01
11 2.002498E+01 3.999997E+00 5.208309E-01
11 2.002498E+01 3.999997E+00 4.166648E-01
11 2.002498E+01 4.999997E+00 4.166648E-01
11 2.102498E+01 5.999994E+00 4.166648E-01

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|------|---|---|----|--------------|--------------|--------------|
| 1179 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 2.083325E-01 |
| 1180 | 0 | 0 | 11 | 2.102498E+01 | 6.999991E+00 | 2.083325E-01 |
| 1181 | 0 | 0 | 11 | 2.052498E+01 | 5.999994E+00 | 2.083325E-01 |
| 1182 | 0 | 0 | 11 | 2.002498E+01 | 5.999997E+00 | 2.083325E-01 |
| 1183 | 0 | 0 | 11 | 2.002498E+01 | 6.999994E+00 | 2.083325E-01 |
| 1184 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 0.000000E+00 |
| 1185 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 1.041662E-01 |
| 1186 | 0 | 0 | 11 | 2.102498E+01 | 8.999994E+00 | 0.000000E+00 |
| 1187 | 0 | 0 | 11 | 2.052498E+01 | 7.999991E+00 | 0.000000E+00 |
| 1188 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 0.000000E+00 |
| 1189 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 1.041662E-01 |
| 1190 | 0 | 0 | 11 | 2.002498E+01 | 8.999994E+00 | 0.000000E+00 |
| 1191 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 2.083325E-01 |
| 1192 | 0 | 0 | 11 | 2.102498E+01 | 8.999994E+00 | 2.083325E-01 |
| 1193 | 0 | 0 | 11 | 2.052498E+01 | 7.999991E+00 | 2.083325E-01 |
| 1194 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 2.083325E-01 |
| 1195 | 0 | 0 | 11 | 2.002498E+01 | 8.999994E+00 | 2.083325E-01 |
| 1196 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 0.000000E+00 |
| 1197 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 1.041662E-01 |
| 1198 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1199 | 0 | 0 | 11 | 2.102498E+01 | 1.099999E+01 | 0.000000E+00 |
| 1200 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 1.041662E-01 |
| 1201 | 0 | 0 | 11 | 2.052498E+01 | 9.999994E+00 | 0.000000E+00 |
| 1202 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 0.000000E+00 |
| 1203 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 1.041662E-01 |
| 1204 | 0 | 0 | 11 | 2.052498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1205 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1206 | 0 | 0 | 11 | 2.002498E+01 | 1.099999E+01 | 0.000000E+00 |
| 1207 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 1.041662E-01 |
| 1208 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 2.083325E-01 |
| 1209 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1210 | 0 | 0 | 11 | 2.102498E+01 | 1.099999E+01 | 2.083325E-01 |
| 1211 | 0 | 0 | 11 | 2.052498E+01 | 9.999994E+00 | 2.083325E-01 |
| 1212 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 2.083325E-01 |
| 1213 | 0 | 0 | 11 | 2.052498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1214 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1215 | 0 | 0 | 11 | 2.002498E+01 | 1.099999E+01 | 2.083325E-01 |
| 1216 | 0 | 0 | 11 | 2.102498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1217 | 0 | 0 | 11 | 2.102498E+01 | 9.999993E-01 | 4.166648E-01 |
| 1218 | 0 | 0 | 11 | 2.102498E+01 | 0.000000E+00 | 5.208309E-01 |
| 1219 | 0 | 0 | 11 | 2.002498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1220 | 0 | 0 | 11 | 2.052498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1221 | 0 | 0 | 11 | 2.002498E+01 | 0.000000E+00 | 5.208309E-01 |
| 1222 | 0 | 0 | 11 | 2.002498E+01 | 9.999995E-01 | 4.166648E-01 |
| 1223 | 0 | 0 | 11 | 2.102498E+01 | 1.999998E+00 | 4.166648E-01 |
| 1224 | 0 | 0 | 11 | 2.102498E+01 | 1.999998E+00 | 5.208309E-01 |
| 1225 | 0 | 0 | 11 | 2.102498E+01 | 2.999997E+00 | 4.166648E-01 |
| 1226 | 0 | 0 | 11 | 2.052498E+01 | 1.999998E+00 | 4.166648E-01 |
| 1227 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 5.208309E-01 |
| 1228 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 4.166648E-01 |
| 1229 | 0 | 0 | 11 | 2.002498E+01 | 2.999998E+00 | 4.166648E-01 |
| 1230 | 0 | 0 | 11 | 2.102498E+01 | 3.999997E+00 | 4.166648E-01 |
| 1231 | 0 | 0 | 11 | 2.102498E+01 | 3.999997E+00 | 5.208309E-01 |
| 1232 | 0 | 0 | 11 | 2.102498E+01 | 4.999994E+00 | 4.166648E-01 |
| 1233 | 0 | 0 | 11 | 2.052498E+01 | 3.999993E+00 | 4.166648E-01 |
| 1234 | 0 | 0 | 11 | 2.002498E+01 | 3.999997E+00 | 5.208309E-01 |
| 1235 | 0 | 0 | 11 | 2.002498E+01 | 3.999997E+00 | 4.166648E-01 |
| 1236 | 0 | 0 | 11 | 2.002498E+01 | 4.999997E+00 | 4.166648E-01 |
| 1237 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 4.166648E-01 |
| 1238 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 4.166648E-01 |

| | | | | | | |
|------|---|---|----|--------------|--------------|--------------|
| 1179 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 2.083325E-01 |
| 1180 | 0 | 0 | 11 | 2.102498E+01 | 6.999991E+00 | 2.083325E-01 |
| 1181 | 0 | 0 | 11 | 2.052498E+01 | 5.999994E+00 | 2.083325E-01 |
| 1182 | 0 | 0 | 11 | 2.002498E+01 | 5.999997E+00 | 2.083325E-01 |
| 1183 | 0 | 0 | 11 | 2.002498E+01 | 6.999994E+00 | 2.083325E-01 |
| 1184 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 0.000000E+00 |
| 1185 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 1.041662E-01 |
| 1186 | 0 | 0 | 11 | 2.102498E+01 | 8.999994E+00 | 0.000000E+00 |
| 1187 | 0 | 0 | 11 | 2.052498E+01 | 7.999991E+00 | 0.000000E+00 |
| 1188 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 0.000000E+00 |
| 1189 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 1.041662E-01 |
| 1190 | 0 | 0 | 11 | 2.002498E+01 | 8.999994E+00 | 0.000000E+00 |
| 1191 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 2.083325E-01 |
| 1192 | 0 | 0 | 11 | 2.102498E+01 | 8.999994E+00 | 2.083325E-01 |
| 1193 | 0 | 0 | 11 | 2.052498E+01 | 7.999991E+00 | 2.083325E-01 |
| 1194 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 2.083325E-01 |
| 1195 | 0 | 0 | 11 | 2.002498E+01 | 8.999994E+00 | 2.083325E-01 |
| 1196 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 0.000000E+00 |
| 1197 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 1.041662E-01 |
| 1198 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1199 | 0 | 0 | 11 | 2.102498E+01 | 1.099999E+01 | 0.000000E+00 |
| 1200 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 1.041662E-01 |
| 1201 | 0 | 0 | 11 | 2.052498E+01 | 9.999994E+00 | 0.000000E+00 |
| 1202 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 0.000000E+00 |
| 1203 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 1.041662E-01 |
| 1204 | 0 | 0 | 11 | 2.052498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1205 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1206 | 0 | 0 | 11 | 2.002498E+01 | 1.099999E+01 | 0.000000E+00 |
| 1207 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 1.041662E-01 |
| 1208 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 2.083325E-01 |
| 1209 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1210 | 0 | 0 | 11 | 2.102498E+01 | 1.099999E+01 | 2.083325E-01 |
| 1211 | 0 | 0 | 11 | 2.052498E+01 | 9.999994E+00 | 2.083325E-01 |
| 1212 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 2.083325E-01 |
| 1213 | 0 | 0 | 11 | 2.052498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1214 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1215 | 0 | 0 | 11 | 2.002498E+01 | 1.099999E+01 | 2.083325E-01 |
| 1216 | 0 | 0 | 11 | 2.102498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1217 | 0 | 0 | 11 | 2.102498E+01 | 9.999993E-01 | 4.166648E-01 |
| 1218 | 0 | 0 | 11 | 2.102498E+01 | 0.000000E+00 | 5.208309E-01 |
| 1219 | 0 | 0 | 11 | 2.002498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1220 | 0 | 0 | 11 | 2.052498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1221 | 0 | 0 | 11 | 2.002498E+01 | 0.000000E+00 | 5.208309E-01 |
| 1222 | 0 | 0 | 11 | 2.002498E+01 | 9.999995E-01 | 4.166648E-01 |
| 1223 | 0 | 0 | 11 | 2.102498E+01 | 1.999998E+00 | 4.166648E-01 |
| 1224 | 0 | 0 | 11 | 2.102498E+01 | 1.999998E+00 | 5.208309E-01 |
| 1225 | 0 | 0 | 11 | 2.102498E+01 | 2.999997E+00 | 4.166648E-01 |
| 1226 | 0 | 0 | 11 | 2.052498E+01 | 1.999998E+00 | 4.166648E-01 |
| 1227 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 5.208309E-01 |
| 1228 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 4.166648E-01 |
| 1229 | 0 | 0 | 11 | 2.002498E+01 | 2.999998E+00 | 4.166648E-01 |
| 1230 | 0 | 0 | 11 | 2.102498E+01 | 3.999997E+00 | 4.166648E-01 |
| 1231 | 0 | 0 | 11 | 2.102498E+01 | 3.999997E+00 | 5.208309E-01 |
| 1232 | 0 | 0 | 11 | 2.102498E+01 | 4.999994E+00 | 4.166648E-01 |
| 1233 | 0 | 0 | 11 | 2.052498E+01 | 3.999993E+00 | 4.166648E-01 |
| 1234 | 0 | 0 | 11 | 2.002498E+01 | 3.999997E+00 | 5.208309E-01 |
| 1235 | 0 | 0 | 11 | 2.002498E+01 | 3.999997E+00 | 4.166648E-01 |
| 1236 | 0 | 0 | 11 | 2.002498E+01 | 4.999997E+00 | 4.166648E-01 |
| 1237 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 4.166648E-01 |
| 1238 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 4.166648E-01 |

| | | | | | | |
|------|---|---|----|--------------|--------------|--------------|
| 1179 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 2.083325E-01 |
| 1180 | 0 | 0 | 11 | 2.102498E+01 | 6.999991E+00 | 2.083325E-01 |
| 1181 | 0 | 0 | 11 | 2.052498E+01 | 5.999994E+00 | 2.083325E-01 |
| 1182 | 0 | 0 | 11 | 2.002498E+01 | 5.999997E+00 | 2.083325E-01 |
| 1183 | 0 | 0 | 11 | 2.002498E+01 | 6.999994E+00 | 2.083325E-01 |
| 1184 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 0.000000E+00 |
| 1185 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 1.041662E-01 |
| 1186 | 0 | 0 | 11 | 2.102498E+01 | 8.999994E+00 | 0.000000E+00 |
| 1187 | 0 | 0 | 11 | 2.052498E+01 | 7.999991E+00 | 0.000000E+00 |
| 1188 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 0.000000E+00 |
| 1189 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 1.041662E-01 |
| 1190 | 0 | 0 | 11 | 2.002498E+01 | 8.999994E+00 | 0.000000E+00 |
| 1191 | 0 | 0 | 11 | 2.102498E+01 | 7.999994E+00 | 2.083325E-01 |
| 1192 | 0 | 0 | 11 | 2.102498E+01 | 8.999994E+00 | 2.083325E-01 |
| 1193 | 0 | 0 | 11 | 2.052498E+01 | 7.999991E+00 | 2.083325E-01 |
| 1194 | 0 | 0 | 11 | 2.002498E+01 | 7.999994E+00 | 2.083325E-01 |
| 1195 | 0 | 0 | 11 | 2.002498E+01 | 8.999994E+00 | 2.083325E-01 |
| 1196 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 0.000000E+00 |
| 1197 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 1.041662E-01 |
| 1198 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1199 | 0 | 0 | 11 | 2.102498E+01 | 1.099999E+01 | 0.000000E+00 |
| 1200 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 1.041662E-01 |
| 1201 | 0 | 0 | 11 | 2.052498E+01 | 9.999994E+00 | 0.000000E+00 |
| 1202 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 0.000000E+00 |
| 1203 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 1.041662E-01 |
| 1204 | 0 | 0 | 11 | 2.052498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1205 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 0.000000E+00 |
| 1206 | 0 | 0 | 11 | 2.002498E+01 | 1.099999E+01 | 0.000000E+00 |
| 1207 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 1.041662E-01 |
| 1208 | 0 | 0 | 11 | 2.102498E+01 | 9.999991E+00 | 2.083325E-01 |
| 1209 | 0 | 0 | 11 | 2.102498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1210 | 0 | 0 | 11 | 2.102498E+01 | 1.099999E+01 | 2.083325E-01 |
| 1211 | 0 | 0 | 11 | 2.052498E+01 | 9.999994E+00 | 2.083325E-01 |
| 1212 | 0 | 0 | 11 | 2.002498E+01 | 9.999994E+00 | 2.083325E-01 |
| 1213 | 0 | 0 | 11 | 2.052498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1214 | 0 | 0 | 11 | 2.002498E+01 | 1.199999E+01 | 2.083325E-01 |
| 1215 | 0 | 0 | 11 | 2.002498E+01 | 1.099999E+01 | 2.083325E-01 |
| 1216 | 0 | 0 | 11 | 2.102498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1217 | 0 | 0 | 11 | 2.102498E+01 | 9.999993E-01 | 4.166648E-01 |
| 1218 | 0 | 0 | 11 | 2.102498E+01 | 0.000000E+00 | 5.208309E-01 |
| 1219 | 0 | 0 | 11 | 2.002498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1220 | 0 | 0 | 11 | 2.052498E+01 | 0.000000E+00 | 4.166648E-01 |
| 1221 | 0 | 0 | 11 | 2.002498E+01 | 0.000000E+00 | 5.208309E-01 |
| 1222 | 0 | 0 | 11 | 2.002498E+01 | 9.999995E-01 | 4.166648E-01 |
| 1223 | 0 | 0 | 11 | 2.102498E+01 | 1.999998E+00 | 4.166648E-01 |
| 1224 | 0 | 0 | 11 | 2.102498E+01 | 1.999998E+00 | 5.208309E-01 |
| 1225 | 0 | 0 | 11 | 2.102498E+01 | 2.999997E+00 | 4.166648E-01 |
| 1226 | 0 | 0 | 11 | 2.052498E+01 | 1.999998E+00 | 4.166648E-01 |
| 1227 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 5.208309E-01 |
| 1228 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 4.166648E-01 |
| 1229 | 0 | 0 | 11 | 2.002498E+01 | 1.999999E+00 | 4.166648E-01 |
| 1230 | 0 | 0 | 11 | 2.002498E+01 | 2.999998E+00 | 4.166648E-01 |
| 1231 | 0 | 0 | 11 | 2.102498E+01 | 3.999997E+00 | 4.166648E-01 |
| 1232 | 0 | 0 | 11 | 2.102498E+01 | 3.999997E+00 | 5.208309E-01 |
| 1233 | 0 | 0 | 11 | 2.102498E+01 | 4.999994E+00 | 4.166648E-01 |
| 1234 | 0 | 0 | 11 | 2.052498E+01 | 3.999993E+00 | 4.166648E-01 |
| 1235 | 0 | 0 | 11 | 2.002498E+01 | 3.999997E+00 | 5.208309E-01 |
| 1236 | 0 | 0 | 11 | 2.002498E+01 | 3.999997E+00 | 4.166648E-01 |
| 1237 | 0 | 0 | 11 | 2.002498E+01 | 4.999997E+00 | 4.166648E-01 |
| 1238 | 0 | 0 | 11 | 2.102498E+01 | 5.999994E+00 | 4.166648E-01 |

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|------|---|---|----|--------------|--------------|--------------|
| 2619 | 0 | 0 | 11 | 1.999998E+00 | 9.999994E+00 | 6.249971E-01 |
| 2620 | 0 | 0 | 11 | 0.000000E+00 | 9.999994E+00 | 6.249971E-01 |
| 2621 | 0 | 0 | 11 | 0.000000E+00 | 9.999994E+00 | 7.291633E-01 |
| 2622 | 0 | 0 | 11 | 1.999998E+00 | 9.999994E+00 | 8.333294E-01 |
| 2623 | 0 | 0 | 11 | 0.000000E+00 | 9.999994E+00 | 8.333294E-01 |
| 2624 | 0 | 0 | 11 | 1.999998E+00 | 1.199999E+01 | 6.249971E-01 |
| 2625 | 0 | 0 | 11 | 0.000000E+00 | 1.199999E+01 | 6.249971E-01 |
| 2626 | 0 | 0 | 11 | 0.000000E+00 | 1.099999E+01 | 6.249971E-01 |
| 2627 | 0 | 0 | 11 | 0.000000E+00 | 1.199999E+01 | 7.291633E-01 |
| 2628 | 0 | 0 | 11 | 1.999998E+00 | 1.199999E+01 | 8.333294E-01 |
| 2629 | 0 | 0 | 11 | 0.000000E+00 | 1.199999E+01 | 8.333294E-01 |
| 2630 | 0 | 0 | 11 | 0.000000E+00 | 1.099999E+01 | 8.333294E-01 |

| -1 (Element Connectivity Input) | | | | | | | Node) |
|---------------------------------|-------------|------|---|---|---|---|-------|
| -1 (Element | 71 (Element | Type | | | | | |
| 1 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2413 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2414 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2410 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2415 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2411 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2447 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2446 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2443 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2449 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2445 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2480 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2479 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2476 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2482 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2478 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2513 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2512 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2509 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2515 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2511 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2546 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 2545 | 30 | 138 | 2 | 2 | 7 | 1 | |
| 23 | 30 | 138 | 2 | 2 | 7 | 1 | |

| | | | | | | |
|------|----|-----|---|---|---|---|
| 2542 | | | | | | |
| 24 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2548 | | | | | | |
| 25 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2544 | | | | | | |
| 26 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2581 | | | | | | |
| 27 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2580 | | | | | | |
| 28 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2575 | | | | | | |
| 29 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2585 | | | | | | |
| 30 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2578 | | | | | | |
| 31 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2584 | | | | | | |
| 32 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2583 | | | | | | |
| 33 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2577 | | | | | | |
| 34 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2285 | | | | | | |
| 35 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2282 | | | | | | |
| 36 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2157 | | | | | | |
| 37 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2154 | | | | | | |
| 38 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2032 | | | | | | |
| 39 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2029 | | | | | | |
| 40 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1905 | | | | | | |
| 41 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1902 | | | | | | |
| 42 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2283 | | | | | | |
| 43 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2155 | | | | | | |
| 44 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2030 | | | | | | |
| 45 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1903 | | | | | | |
| 46 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2304 | | | | | | |
| 47 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2301 | | | | | | |
| 48 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2176 | | | | | | |
| 49 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2173 | | | | | | |
| 50 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2051 | | | | | | |
| 51 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2048 | | | | | | |
| 52 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1924 | | | | | | |
| 53 | 30 | 138 | 2 | 2 | 7 | 1 |

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|------|----|-----|---|---|---|---|
| 1921 | | | | | | |
| 54 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2303 | | | | | | |
| 55 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2175 | | | | | | |
| 56 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2050 | | | | | | |
| 57 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1923 | | | | | | |
| 58 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2323 | | | | | | |
| 59 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2320 | | | | | | |
| 60 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2195 | | | | | | |
| 61 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2192 | | | | | | |
| 62 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2070 | | | | | | |
| 63 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2067 | | | | | | |
| 64 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1943 | | | | | | |
| 65 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1940 | | | | | | |
| 66 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2322 | | | | | | |
| 67 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2194 | | | | | | |
| 68 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2069 | | | | | | |
| 69 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1942 | | | | | | |
| 70 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2342 | | | | | | |
| 71 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2339 | | | | | | |
| 72 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2214 | | | | | | |
| 73 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2211 | | | | | | |
| 74 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2089 | | | | | | |
| 75 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2086 | | | | | | |
| 76 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1962 | | | | | | |
| 77 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1959 | | | | | | |
| 78 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2341 | | | | | | |
| 79 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2213 | | | | | | |
| 80 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2088 | | | | | | |
| 81 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1961 | | | | | | |
| 82 | 30 | 138 | 2 | 2 | 7 | 1 |
| 2361 | | | | | | |
| 83 | 30 | 138 | 2 | 2 | 7 | 1 |

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|------|----|-----|---|---|---|---|
| 2002 | | | | | | |
| 114 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1783 | | | | | | |
| 115 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1777 | | | | | | |
| 116 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1778 | | | | | | |
| 117 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1790 | | | | | | |
| 118 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1784 | | | | | | |
| 119 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1787 | | | | | | |
| 120 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1797 | | | | | | |
| 121 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1791 | | | | | | |
| 122 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1795 | | | | | | |
| 123 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1804 | | | | | | |
| 124 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1798 | | | | | | |
| 125 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1802 | | | | | | |
| 126 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1811 | | | | | | |
| 127 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1805 | | | | | | |
| 128 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1809 | | | | | | |
| 129 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1822 | | | | | | |
| 130 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1812 | | | | | | |
| 131 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1817 | | | | | | |
| 132 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1823 | | | | | | |
| 133 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1816 | | | | | | |
| 134 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1654 | | | | | | |
| 135 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1651 | | | | | | |
| 136 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1487 | | | | | | |
| 137 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1488 | | | | | | |
| 138 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1380 | | | | | | |
| 139 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1381 | | | | | | |
| 140 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1652 | | | | | | |
| 141 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1489 | | | | | | |
| 142 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1382 | | | | | | |

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|------|----|-----|---|---|---|---|
| 2002 | | | | | | |
| 114 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1783 | | | | | | |
| 115 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1777 | | | | | | |
| 116 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1778 | | | | | | |
| 117 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1790 | | | | | | |
| 118 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1784 | | | | | | |
| 119 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1787 | | | | | | |
| 120 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1797 | | | | | | |
| 121 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1791 | | | | | | |
| 122 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1795 | | | | | | |
| 123 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1804 | | | | | | |
| 124 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1798 | | | | | | |
| 125 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1802 | | | | | | |
| 126 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1811 | | | | | | |
| 127 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1805 | | | | | | |
| 128 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1809 | | | | | | |
| 129 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1822 | | | | | | |
| 130 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1812 | | | | | | |
| 131 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1817 | | | | | | |
| 132 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1823 | | | | | | |
| 133 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1816 | | | | | | |
| 134 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1654 | | | | | | |
| 135 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1651 | | | | | | |
| 136 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1487 | | | | | | |
| 137 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1488 | | | | | | |
| 138 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1380 | | | | | | |
| 139 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1381 | | | | | | |
| 140 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1652 | | | | | | |
| 141 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1489 | | | | | | |
| 142 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1382 | | | | | | |

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|------|----|-----|---|---|---|---|
| 2002 | | | | | | |
| 114 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1783 | | | | | | |
| 115 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1777 | | | | | | |
| 116 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1778 | | | | | | |
| 117 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1790 | | | | | | |
| 118 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1784 | | | | | | |
| 119 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1787 | | | | | | |
| 120 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1797 | | | | | | |
| 121 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1791 | | | | | | |
| 122 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1795 | | | | | | |
| 123 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1804 | | | | | | |
| 124 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1798 | | | | | | |
| 125 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1802 | | | | | | |
| 126 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1811 | | | | | | |
| 127 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1805 | | | | | | |
| 128 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1809 | | | | | | |
| 129 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1822 | | | | | | |
| 130 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1812 | | | | | | |
| 131 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1817 | | | | | | |
| 132 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1823 | | | | | | |
| 133 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1816 | | | | | | |
| 134 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1654 | | | | | | |
| 135 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1651 | | | | | | |
| 136 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1487 | | | | | | |
| 137 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1488 | | | | | | |
| 138 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1380 | | | | | | |
| 139 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1381 | | | | | | |
| 140 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1652 | | | | | | |
| 141 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1489 | | | | | | |
| 142 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1382 | | | | | | |

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|------|----|-----|---|---|---|---|
| 2002 | | | | | | |
| 114 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1783 | | | | | | |
| 115 | 30 | 138 | 2 | 2 | 7 | 1 |
| 1777 | | | | | | |
| 116 | 30 | 138 | 2 | 2 | 7 | 1 |
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| 2520 | 2519 | 2516 | 2518 | 2549 | 2552 | 2553 |
| 2521 | 2517 | 2550 | 2554 | 2527 | 2526 | 2523 |
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| 401 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2527 | 2526 | 2523 | 2525 | 2556 | 2559 | 2560 |
| 2528 | 2524 | 2557 | 2561 | 2536 | 2535 | 2530 |
| 2563 | 2568 | 2569 | 2540 | | | |
| 402 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2537 | 2531 | 2564 | 2570 | 2539 | 2538 | 2532 |
| 2565 | 2571 | 2572 | 2541 | | | |
| 403 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2546 | 2545 | 2542 | 2544 | 2575 | 2580 | 2581 |
| 2547 | 2543 | 2576 | 2582 | 2553 | 2552 | 2549 |
| 2587 | 2592 | 2593 | 2555 | | | |
| 404 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2554 | 2550 | 2588 | 2594 | 2560 | 2559 | 2556 |
| 2599 | 2604 | 2605 | 2562 | | | |
| 405 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2611 | 2619 | 2620 | 2573 | | | |
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| 2570 | 2564 | 2612 | 2621 | 2572 | 2571 | 2565 |
| 2613 | 2622 | 2623 | 2574 | | | |
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| 2582 | 2576 | 2579 | 2586 | 2593 | 2592 | 2587 |
| 2589 | 2595 | 2596 | 2597 | | | |
| 408 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2594 | 2588 | 2591 | 2598 | 2605 | 2604 | 2599 |
| 2601 | 2607 | 2608 | 2609 | | | |
| 409 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2606 | 2600 | 2603 | 2610 | 2620 | 2619 | 2611 |
| 2614 | 2624 | 2625 | 2626 | | | |
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| 2617 | 2628 | 2629 | 2630 | | | |
| 411 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2410 | 2285 | 2282 | 2283 | 2301 | 2304 | 2443 |
| 2412 | 2284 | 2302 | 2444 | 2417 | 2289 | 2286 |
| 2305 | 2308 | 2450 | 2418 | | | |
| 412 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2419 | 2288 | 2306 | 2452 | 2424 | 2293 | 2290 |
| 2309 | 2312 | 2457 | 2425 | | | |
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| 2313 | 2318 | 2464 | 2432 | | | |
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| 2316 | 2319 | 2467 | 2435 | | | |
| 415 | 20 | 116 | 3 | 3 | 7 | 20 |

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| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
| 2466 | 2315 | 2333 | 2498 | 2467 | 2319 | 2316 |
| 2334 | 2338 | 2499 | 2468 | | | |
| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2313 | 2190 | 2185 | 2186 | 2204 | 2209 | 2332 |
| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
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| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
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| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2484 | 2325 | 2344 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 2334 | 2338 | 2499 | 2468 | | | |
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| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
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| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
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| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
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| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
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| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
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|------|------|------|------|------|------|------|
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| 2334 | 2338 | 2499 | 2468 | | | |
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| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
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| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
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| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2065 | 2071 | 2196 | 2179 | | | |
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| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
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| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
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| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
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| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2325 | 2344 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
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| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2343 | 2346 | 2516 | 2485 | | | |
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| 2484 | 2325 | 2344 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 2334 | 2338 | 2499 | 2468 | | | |
| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2313 | 2190 | 2185 | 2186 | 2204 | 2209 | 2332 |
| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
| 2477 | 2321 | 2340 | 2510 | 2483 | 2327 | 2324 |
| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2325 | 2344 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2313 | 2190 | 2185 | 2186 | 2204 | 2209 | 2332 |
| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
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| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
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| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
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| 2343 | 2346 | 2516 | 2485 | | | |
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| 2484 | 2325 | 2344 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 1948 | 1949 | 2076 | 2058 | | | |
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| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
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| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2325 | 2324 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
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| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
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| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2325 | 2324 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
| 2466 | 2315 | 2333 | 2498 | 2467 | 2319 | 2316 |
| 2334 | 2338 | 2499 | 2468 | | | |
| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
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| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
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| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
| 2477 | 2321 | 2340 | 2510 | 2483 | 2327 | 2324 |
| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
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| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
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| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2325 | 2324 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 2334 | 2338 | 2499 | 2468 | | | |
| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
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| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2313 | 2190 | 2185 | 2186 | 2204 | 2209 | 2332 |
| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
| 2477 | 2321 | 2340 | 2510 | 2483 | 2327 | 2324 |
| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2485 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
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| 2334 | 2338 | 2499 | 2468 | | | |
| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2313 | 2190 | 2185 | 2186 | 2204 | 2209 | 2332 |
| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
| 2477 | 2321 | 2340 | 2510 | 2483 | 2327 | 2324 |
| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2328 | 2324 | 2327 | 2344 | 2347 | 2517 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
| 2466 | 2315 | 2333 | 2498 | 2467 | 2319 | 2316 |
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| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2313 | 2190 | 2185 | 2186 | 2204 | 2209 | 2332 |
| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
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| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
| 2477 | 2321 | 2340 | 2510 | 2483 | 2327 | 2324 |
| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2328 | 2325 | 2517 | 2480 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
| 2466 | 2315 | 2333 | 2498 | 2467 | 2319 | 2316 |
| 2334 | 2338 | 2499 | 2468 | | | |
| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
| 2196 | 2199 | 2324 | 2307 | | | |
| 432 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2305 | 2180 | 2177 | 2179 | 2196 | 2199 | 2324 |
| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2309 | 2184 | 2181 | 2182 | 2200 | 2203 | 2328 |
| 2311 | 2183 | 2201 | 2329 | 2313 | 2190 | 2185 |
| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2313 | 2190 | 2185 | 2186 | 2204 | 2209 | 2332 |
| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
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| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
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| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
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| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
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| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2325 | 2344 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 2464 | 2318 | 2313 | 2314 | 2332 | 2337 | 2497 |
| 2466 | 2315 | 2333 | 2498 | 2467 | 2319 | 2316 |
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| 431 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2301 | 2176 | 2173 | 2175 | 2192 | 2195 | 2320 |
| 2302 | 2174 | 2193 | 2321 | 2305 | 2180 | 2177 |
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| 2306 | 2178 | 2197 | 2325 | 2309 | 2184 | 2181 |
| 2200 | 2203 | 2328 | 2310 | | | |
| 433 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2204 | 2209 | 2332 | 2314 | | | |
| 434 | 20 | 116 | 3 | 3 | 7 | 20 |
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| 2315 | 2187 | 2205 | 2333 | 2316 | 2191 | 2188 |
| 2206 | 2210 | 2334 | 2317 | | | |
| 435 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2173 | 2051 | 2048 | 2050 | 2067 | 2070 | 2192 |
| 2174 | 2049 | 2068 | 2193 | 2177 | 2052 | 2046 |
| 2065 | 2071 | 2196 | 2179 | | | |
| 436 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2177 | 2052 | 2046 | 2047 | 2065 | 2071 | 2196 |
| 2178 | 2045 | 2064 | 2197 | 2181 | 2056 | 2053 |
| 2072 | 2075 | 2200 | 2182 | | | |
| 437 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2181 | 2056 | 2053 | 2055 | 2072 | 2075 | 2200 |
| 2183 | 2054 | 2073 | 2201 | 2185 | 2062 | 2057 |
| 2076 | 2081 | 2204 | 2186 | | | |
| 438 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2185 | 2062 | 2057 | 2058 | 2076 | 2081 | 2204 |
| 2187 | 2059 | 2078 | 2205 | 2188 | 2063 | 2060 |
| 2079 | 2082 | 2206 | 2189 | | | |
| 439 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2048 | 1924 | 1921 | 1923 | 1940 | 1943 | 2067 |
| 2049 | 1922 | 1941 | 2068 | 2046 | 1920 | 1918 |
| 1937 | 1938 | 2065 | 2047 | | | |
| 440 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2046 | 1920 | 1918 | 1919 | 1937 | 1938 | 2065 |
| 2045 | 1917 | 1936 | 2064 | 2053 | 1928 | 1925 |
| 1944 | 1946 | 2072 | 2055 | | | |
| 441 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2053 | 1928 | 1925 | 1927 | 1944 | 1946 | 2072 |
| 2054 | 1926 | 1945 | 2073 | 2057 | 1931 | 1929 |
| 1948 | 1949 | 2076 | 2058 | | | |
| 442 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2057 | 1931 | 1929 | 1930 | 1948 | 1949 | 2076 |
| 2059 | 1932 | 1951 | 2078 | 2060 | 1935 | 1933 |
| 1952 | 1954 | 2079 | 2061 | | | |
| 443 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2476 | 2323 | 2320 | 2322 | 2339 | 2342 | 2509 |
| 2477 | 2321 | 2340 | 2510 | 2483 | 2327 | 2324 |
| 2343 | 2346 | 2516 | 2485 | | | |
| 444 | 20 | 116 | 3 | 3 | 7 | 20 |
| 2483 | 2327 | 2324 | 2326 | 2343 | 2346 | 2516 |
| 2484 | 2325 | 2344 | 2517 | 2490 | 2331 | 2328 |

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|------|------|------|------|------|------|------|
| 1182 | 1181 | 1179 | 1180 | 1191 | 1193 | 1194 |
| 1129 | 1128 | 1130 | 1131 | 1242 | 1240 | 1237 |
| 1244 | 1247 | 1249 | 1243 | | | |
| 641 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1242 | 1240 | 1237 | 1239 | 1244 | 1247 | 1249 |
| 1241 | 1238 | 1245 | 1248 | 1309 | 1308 | 1306 |
| 1318 | 1320 | 1321 | 1310 | | | |
| 642 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1309 | 1308 | 1306 | 1307 | 1318 | 1320 | 1321 |
| 1302 | 1299 | 1311 | 1314 | 1304 | 1303 | 1300 |
| 1312 | 1315 | 1316 | 1305 | | | |
| 643 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1172 | 1039 | 1036 | 1038 | 1065 | 1068 | 1184 |
| 1173 | 1037 | 1066 | 1185 | 1179 | 1034 | 1033 |
| 1062 | 1063 | 1191 | 1180 | | | |
| 644 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1179 | 1034 | 1033 | 1035 | 1062 | 1063 | 1191 |
| 1128 | 1027 | 1056 | 1130 | 1237 | 1042 | 1040 |
| 1069 | 1071 | 1244 | 1239 | | | |
| 645 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1237 | 1042 | 1040 | 1043 | 1069 | 1071 | 1244 |
| 1238 | 1041 | 1070 | 1245 | 1306 | 1045 | 1044 |
| 1073 | 1074 | 1318 | 1307 | | | |
| 646 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1306 | 1045 | 1044 | 1046 | 1073 | 1074 | 1318 |
| 1299 | 1047 | 1076 | 1311 | 1300 | 1050 | 1048 |
| 1077 | 1079 | 1312 | 1301 | | | |
| 647 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1036 | 846 | 840 | 844 | 847 | 853 | 1065 |
| 1037 | 841 | 848 | 1066 | 1033 | 843 | 842 |
| 849 | 850 | 1062 | 1035 | | | |
| 648 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1033 | 843 | 842 | 845 | 849 | 850 | 1062 |
| 1027 | 815 | 816 | 1056 | 1040 | 880 | 878 |
| 882 | 884 | 1069 | 1043 | | | |
| 649 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1040 | 880 | 878 | 881 | 882 | 884 | 1069 |
| 1041 | 879 | 883 | 1070 | 1044 | 915 | 914 |
| 921 | 922 | 1073 | 1046 | | | |
| 650 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1044 | 915 | 914 | 916 | 921 | 922 | 1073 |
| 1047 | 917 | 923 | 1076 | 1048 | 920 | 918 |
| 924 | 927 | 1077 | 1049 | | | |
| 651 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1188 | 1187 | 1184 | 1186 | 1196 | 1201 | 1202 |
| 1189 | 1185 | 1197 | 1203 | 1194 | 1193 | 1191 |
| 1208 | 1211 | 1212 | 1195 | | | |
| 652 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1194 | 1193 | 1191 | 1192 | 1208 | 1211 | 1212 |
| 1131 | 1130 | 1132 | 1134 | 1249 | 1247 | 1244 |
| 1251 | 1256 | 1261 | 1250 | | | |
| 653 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1249 | 1247 | 1244 | 1246 | 1251 | 1256 | 1261 |
| 1248 | 1245 | 1252 | 1257 | 1321 | 1320 | 1318 |
| 1335 | 1338 | 1339 | 1322 | | | |
| 654 | 20 | 116 | 3 | 1 | 7 | 20 |

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|------|------|------|------|------|------|------|
| 1182 | 1181 | 1179 | 1180 | 1191 | 1193 | 1194 |
| 1129 | 1128 | 1130 | 1131 | 1242 | 1240 | 1237 |
| 1244 | 1247 | 1249 | 1243 | | | |
| 641 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1242 | 1240 | 1237 | 1239 | 1244 | 1247 | 1249 |
| 1241 | 1238 | 1245 | 1248 | 1309 | 1308 | 1306 |
| 1318 | 1320 | 1321 | 1310 | | | |
| 642 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1309 | 1308 | 1306 | 1307 | 1318 | 1320 | 1321 |
| 1302 | 1299 | 1311 | 1314 | 1304 | 1303 | 1300 |
| 1312 | 1315 | 1316 | 1305 | | | |
| 643 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1172 | 1039 | 1036 | 1038 | 1065 | 1068 | 1184 |
| 1173 | 1037 | 1066 | 1185 | 1179 | 1034 | 1033 |
| 1062 | 1063 | 1191 | 1180 | | | |
| 644 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1179 | 1034 | 1033 | 1035 | 1062 | 1063 | 1191 |
| 1128 | 1027 | 1056 | 1130 | 1237 | 1042 | 1040 |
| 1069 | 1071 | 1244 | 1239 | | | |
| 645 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1237 | 1042 | 1040 | 1043 | 1069 | 1071 | 1244 |
| 1238 | 1041 | 1070 | 1245 | 1306 | 1045 | 1044 |
| 1073 | 1074 | 1318 | 1307 | | | |
| 646 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1306 | 1045 | 1044 | 1046 | 1073 | 1074 | 1318 |
| 1299 | 1047 | 1076 | 1311 | 1300 | 1050 | 1048 |
| 1077 | 1079 | 1312 | 1301 | | | |
| 647 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1036 | 846 | 840 | 844 | 847 | 853 | 1065 |
| 1037 | 841 | 848 | 1066 | 1033 | 843 | 842 |
| 849 | 850 | 1062 | 1035 | | | |
| 648 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1033 | 843 | 842 | 845 | 849 | 850 | 1062 |
| 1027 | 815 | 816 | 1056 | 1040 | 880 | 878 |
| 882 | 884 | 1069 | 1043 | | | |
| 649 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1040 | 880 | 878 | 881 | 882 | 884 | 1069 |
| 1041 | 879 | 883 | 1070 | 1044 | 915 | 914 |
| 921 | 922 | 1073 | 1046 | | | |
| 650 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1044 | 915 | 914 | 916 | 921 | 922 | 1073 |
| 1047 | 917 | 923 | 1076 | 1048 | 920 | 918 |
| 924 | 927 | 1077 | 1049 | | | |
| 651 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1188 | 1187 | 1184 | 1186 | 1196 | 1201 | 1202 |
| 1189 | 1185 | 1197 | 1203 | 1194 | 1193 | 1191 |
| 1208 | 1211 | 1212 | 1195 | | | |
| 652 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1194 | 1193 | 1191 | 1192 | 1208 | 1211 | 1212 |
| 1131 | 1130 | 1132 | 1134 | 1249 | 1247 | 1244 |
| 1251 | 1256 | 1261 | 1250 | | | |
| 653 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1249 | 1247 | 1244 | 1246 | 1251 | 1256 | 1261 |
| 1248 | 1245 | 1252 | 1257 | 1321 | 1320 | 1318 |
| 1335 | 1338 | 1339 | 1322 | | | |
| 654 | 20 | 116 | 3 | 1 | 7 | 20 |

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|------|------|------|------|------|------|------|
| 1182 | 1181 | 1179 | 1180 | 1191 | 1193 | 1194 |
| 1129 | 1128 | 1130 | 1131 | 1242 | 1240 | 1237 |
| 1244 | 1247 | 1249 | 1243 | | | |
| 641 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1242 | 1240 | 1237 | 1239 | 1244 | 1247 | 1249 |
| 1241 | 1238 | 1245 | 1248 | 1309 | 1308 | 1306 |
| 1318 | 1320 | 1321 | 1310 | | | |
| 642 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1309 | 1308 | 1306 | 1307 | 1318 | 1320 | 1321 |
| 1302 | 1299 | 1311 | 1314 | 1304 | 1303 | 1300 |
| 1312 | 1315 | 1316 | 1305 | | | |
| 643 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1172 | 1039 | 1036 | 1038 | 1065 | 1068 | 1184 |
| 1173 | 1037 | 1066 | 1185 | 1179 | 1034 | 1033 |
| 1062 | 1063 | 1191 | 1180 | | | |
| 644 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1179 | 1034 | 1033 | 1035 | 1062 | 1063 | 1191 |
| 1128 | 1027 | 1056 | 1130 | 1237 | 1042 | 1040 |
| 1069 | 1071 | 1244 | 1239 | | | |
| 645 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1237 | 1042 | 1040 | 1043 | 1069 | 1071 | 1244 |
| 1238 | 1041 | 1070 | 1245 | 1306 | 1045 | 1044 |
| 1073 | 1074 | 1318 | 1307 | | | |
| 646 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1306 | 1045 | 1044 | 1046 | 1073 | 1074 | 1318 |
| 1299 | 1047 | 1076 | 1311 | 1300 | 1050 | 1048 |
| 1077 | 1079 | 1312 | 1301 | | | |
| 647 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1036 | 846 | 840 | 844 | 847 | 853 | 1065 |
| 1037 | 841 | 848 | 1066 | 1033 | 843 | 842 |
| 849 | 850 | 1062 | 1035 | | | |
| 648 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1033 | 843 | 842 | 845 | 849 | 850 | 1062 |
| 1027 | 815 | 816 | 1056 | 1040 | 880 | 878 |
| 882 | 884 | 1069 | 1043 | | | |
| 649 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1040 | 880 | 878 | 881 | 882 | 884 | 1069 |
| 1041 | 879 | 883 | 1070 | 1044 | 915 | 914 |
| 921 | 922 | 1073 | 1046 | | | |
| 650 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1044 | 915 | 914 | 916 | 921 | 922 | 1073 |
| 1047 | 917 | 923 | 1076 | 1048 | 920 | 918 |
| 924 | 927 | 1077 | 1049 | | | |
| 651 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1188 | 1187 | 1184 | 1186 | 1196 | 1201 | 1202 |
| 1189 | 1185 | 1197 | 1203 | 1194 | 1193 | 1191 |
| 1208 | 1211 | 1212 | 1195 | | | |
| 652 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1194 | 1193 | 1191 | 1192 | 1208 | 1211 | 1212 |
| 1131 | 1130 | 1132 | 1134 | 1249 | 1247 | 1244 |
| 1251 | 1256 | 1261 | 1250 | | | |
| 653 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1249 | 1247 | 1244 | 1246 | 1251 | 1256 | 1261 |
| 1248 | 1245 | 1252 | 1257 | 1321 | 1320 | 1318 |
| 1335 | 1338 | 1339 | 1322 | | | |
| 654 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1321 | 1320 | 1318 | 1319 | 1325 | 1320 | 1320 |

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|------|------|------|------|------|------|------|
| 1182 | 1181 | 1179 | 1180 | 1191 | 1193 | 1194 |
| 1129 | 1128 | 1130 | 1131 | 1242 | 1240 | 1237 |
| 1244 | 1247 | 1249 | 1243 | | | |
| 641 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1242 | 1240 | 1237 | 1239 | 1244 | 1247 | 1249 |
| 1241 | 1238 | 1245 | 1248 | 1309 | 1308 | 1306 |
| 1318 | 1320 | 1321 | 1310 | | | |
| 642 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1309 | 1308 | 1306 | 1307 | 1318 | 1320 | 1321 |
| 1302 | 1299 | 1311 | 1314 | 1304 | 1303 | 1300 |
| 1312 | 1315 | 1316 | 1305 | | | |
| 643 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1172 | 1039 | 1036 | 1038 | 1065 | 1068 | 1184 |
| 1173 | 1037 | 1066 | 1185 | 1179 | 1034 | 1033 |
| 1062 | 1063 | 1191 | 1180 | | | |
| 644 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1179 | 1034 | 1033 | 1035 | 1062 | 1063 | 1191 |
| 1128 | 1027 | 1056 | 1130 | 1237 | 1042 | 1040 |
| 1069 | 1071 | 1244 | 1239 | | | |
| 645 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1237 | 1042 | 1040 | 1043 | 1069 | 1071 | 1244 |
| 1238 | 1041 | 1070 | 1245 | 1306 | 1045 | 1044 |
| 1073 | 1074 | 1318 | 1307 | | | |
| 646 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1306 | 1045 | 1044 | 1046 | 1073 | 1074 | 1318 |
| 1299 | 1047 | 1076 | 1311 | 1300 | 1050 | 1048 |
| 1077 | 1079 | 1312 | 1301 | | | |
| 647 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1036 | 846 | 840 | 844 | 847 | 853 | 1065 |
| 1037 | 841 | 848 | 1066 | 1033 | 843 | 842 |
| 849 | 850 | 1062 | 1035 | | | |
| 648 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1033 | 843 | 842 | 845 | 849 | 850 | 1062 |
| 1027 | 815 | 816 | 1056 | 1040 | 880 | 878 |
| 882 | 884 | 1069 | 1043 | | | |
| 649 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1040 | 880 | 878 | 881 | 882 | 884 | 1069 |
| 1041 | 879 | 883 | 1070 | 1044 | 915 | 914 |
| 921 | 922 | 1073 | 1046 | | | |
| 650 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1044 | 915 | 914 | 916 | 921 | 922 | 1073 |
| 1047 | 917 | 923 | 1076 | 1048 | 920 | 918 |
| 924 | 927 | 1077 | 1049 | | | |
| 651 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1188 | 1187 | 1184 | 1186 | 1196 | 1201 | 1202 |
| 1189 | 1185 | 1197 | 1203 | 1194 | 1193 | 1191 |
| 1208 | 1211 | 1212 | 1195 | | | |
| 652 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1194 | 1193 | 1191 | 1192 | 1208 | 1211 | 1212 |
| 1131 | 1130 | 1132 | 1134 | 1249 | 1247 | 1244 |
| 1251 | 1256 | 1261 | 1250 | | | |
| 653 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1249 | 1247 | 1244 | 1246 | 1251 | 1256 | 1261 |
| 1248 | 1245 | 1252 | 1257 | 1321 | 1320 | 1318 |
| 1335 | 1338 | 1339 | 1322 | | | |
| 654 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1321 | 1320 | 1318 | 1319 | 1325 | 1320 | 1320 |

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|------|------|------|------|------|------|------|
| 1182 | 1181 | 1179 | 1180 | 1191 | 1193 | 1194 |
| 1129 | 1128 | 1130 | 1131 | 1242 | 1240 | 1237 |
| 1244 | 1247 | 1249 | 1243 | | | |
| 641 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1242 | 1240 | 1237 | 1239 | 1244 | 1247 | 1249 |
| 1241 | 1238 | 1245 | 1248 | 1309 | 1308 | 1306 |
| 1318 | 1320 | 1321 | 1310 | | | |
| 642 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1309 | 1308 | 1306 | 1307 | 1318 | 1320 | 1321 |
| 1302 | 1299 | 1311 | 1314 | 1304 | 1303 | 1300 |
| 1312 | 1315 | 1316 | 1305 | | | |
| 643 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1172 | 1039 | 1036 | 1038 | 1065 | 1068 | 1184 |
| 1173 | 1037 | 1066 | 1185 | 1179 | 1034 | 1033 |
| 1062 | 1063 | 1191 | 1180 | | | |
| 644 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1179 | 1034 | 1033 | 1035 | 1062 | 1063 | 1191 |
| 1128 | 1027 | 1056 | 1130 | 1237 | 1042 | 1040 |
| 1069 | 1071 | 1244 | 1239 | | | |
| 645 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1237 | 1042 | 1040 | 1043 | 1069 | 1071 | 1244 |
| 1238 | 1041 | 1070 | 1245 | 1306 | 1045 | 1044 |
| 1073 | 1074 | 1318 | 1307 | | | |
| 646 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1306 | 1045 | 1044 | 1046 | 1073 | 1074 | 1318 |
| 1299 | 1047 | 1076 | 1311 | 1300 | 1050 | 1048 |
| 1077 | 1079 | 1312 | 1301 | | | |
| 647 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1036 | 846 | 840 | 844 | 847 | 853 | 1065 |
| 1037 | 841 | 848 | 1066 | 1033 | 843 | 842 |
| 849 | 850 | 1062 | 1035 | | | |
| 648 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1033 | 843 | 842 | 845 | 849 | 850 | 1062 |
| 1027 | 815 | 816 | 1056 | 1040 | 880 | 878 |
| 882 | 884 | 1069 | 1043 | | | |
| 649 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1040 | 880 | 878 | 881 | 882 | 884 | 1069 |
| 1041 | 879 | 883 | 1070 | 1044 | 915 | 914 |
| 921 | 922 | 1073 | 1046 | | | |
| 650 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1044 | 915 | 914 | 916 | 921 | 922 | 1073 |
| 1047 | 917 | 923 | 1076 | 1048 | 920 | 918 |
| 924 | 927 | 1077 | 1049 | | | |
| 651 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1188 | 1187 | 1184 | 1186 | 1196 | 1201 | 1202 |
| 1189 | 1185 | 1197 | 1203 | 1194 | 1193 | 1191 |
| 1208 | 1211 | 1212 | 1195 | | | |
| 652 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1194 | 1193 | 1191 | 1192 | 1208 | 1211 | 1212 |
| 1131 | 1130 | 1132 | 1134 | 1249 | 1247 | 1244 |
| 1251 | 1256 | 1261 | 1250 | | | |
| 653 | 20 | 116 | 3 | 1 | 7 | 20 |
| 1249 | 1247 | 1244 | 1246 | 1251 | 1256 | 1261 |
| 1248 | 1245 | 1252 | 1257 | 1321 | 1320 | 1318 |
| 1335 | 1338 | 1339 | 1322 | | | |
| 654 | 20 | 116 | 3 | 1 | 7 | 20 |

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|------|------|----|----|----|---|---|
| 1121 | 1120 | | | | | |
| 822 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1120 | 1088 | | | | | |
| 823 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1088 | 1087 | | | | | |
| 824 | 1 | 21 | 13 | 13 | 7 | 2 |
| 664 | 663 | | | | | |
| 825 | 1 | 21 | 13 | 13 | 7 | 2 |
| 663 | 662 | | | | | |
| 826 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1587 | 1586 | | | | | |
| 827 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1585 | 1584 | | | | | |
| 828 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1558 | 1557 | | | | | |
| 829 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1531 | 1530 | | | | | |
| 830 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1497 | 1496 | | | | | |
| 831 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1560 | 1559 | | | | | |
| 832 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1533 | 1532 | | | | | |
| 833 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1499 | 1498 | | | | | |
| 834 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1479 | 1478 | | | | | |
| 835 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1477 | 1476 | | | | | |
| 836 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1586 | 1583 | | | | | |
| 837 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1583 | 1582 | | | | | |
| 838 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1582 | 1580 | | | | | |
| 839 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1084 | 1083 | | | | | |
| 840 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1083 | 1082 | | | | | |
| 841 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1082 | 1060 | | | | | |
| 842 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1060 | 1059 | | | | | |
| 843 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1059 | 1057 | | | | | |
| 844 | 1 | 21 | 13 | 13 | 7 | 2 |
| 636 | 635 | | | | | |
| 845 | 1 | 21 | 13 | 13 | 7 | 2 |
| 635 | 632 | | | | | |
| 846 | 1 | 21 | 13 | 13 | 7 | 2 |
| 632 | 631 | | | | | |
| 847 | 1 | 21 | 13 | 13 | 7 | 2 |
| 631 | 629 | | | | | |
| 848 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1559 | 1556 | | | | | |
| 849 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1556 | 1555 | | | | | |
| 850 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1555 | 1553 | | | | | |
| 851 | 1 | 21 | 10 | 10 | 7 | 2 |

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|------|------|----|----|----|---|---|
| 543 | 540 | | | | | |
| 882 | 1 | 21 | 13 | 13 | 7 | 2 |
| 540 | 539 | | | | | |
| 883 | 1 | 21 | 13 | 13 | 7 | 2 |
| 539 | 537 | | | | | |
| 884 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1478 | 1475 | | | | | |
| 885 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1475 | 1474 | | | | | |
| 886 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1474 | 1472 | | | | | |
| 887 | 1 | 21 | 10 | 10 | 7 | 2 |
| 950 | 949 | | | | | |
| 888 | 1 | 21 | 10 | 10 | 7 | 2 |
| 949 | 948 | | | | | |
| 889 | 1 | 21 | 10 | 10 | 7 | 2 |
| 948 | 944 | | | | | |
| 890 | 1 | 21 | 10 | 10 | 7 | 2 |
| 944 | 943 | | | | | |
| 891 | 1 | 21 | 10 | 10 | 7 | 2 |
| 943 | 941 | | | | | |
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| 890 | 1 | 21 | 10 | 10 | 7 | 2 |
| 944 | 943 | | | | | |
| 891 | 1 | 21 | 10 | 10 | 7 | 2 |
| 943 | 941 | | | | | |
| 892 | 1 | 21 | 13 | 13 | 7 | 2 |
| 532 | 531 | | | | | |
| 893 | 1 | 21 | 13 | 13 | 7 | 2 |
| 531 | 528 | | | | | |
| 894 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 895 | 1 | 21 | 13 | 13 | 7 | 2 |
| 527 | 525 | | | | | |
| 896 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1584 | 1581 | | | | | |
| 897 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1081 | 1080 | | | | | |
| 898 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1080 | 1061 | | | | | |
| 899 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1061 | 1058 | | | | | |
| 900 | 1 | 21 | 13 | 13 | 7 | 2 |
| 634 | 633 | | | | | |
| 901 | 1 | 21 | 13 | 13 | 7 | 2 |
| 633 | 630 | | | | | |
| 902 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1557 | 1554 | | | | | |
| 903 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1052 | 1051 | | | | | |
| 904 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 1032 | 1029 | | | | | |
| 906 | 1 | 21 | 13 | 13 | 7 | 2 |
| 586 | 585 | | | | | |
| 907 | 1 | 21 | 13 | 13 | 7 | 2 |
| 585 | 582 | | | | | |
| 908 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1530 | 1527 | | | | | |
| 909 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1023 | 1022 | | | | | |
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| 543 | 540 | | | | | |
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| 883 | 1 | 21 | 13 | 13 | 7 | 2 |
| 539 | 537 | | | | | |
| 884 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1478 | 1475 | | | | | |
| 885 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1475 | 1474 | | | | | |
| 886 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1474 | 1472 | | | | | |
| 887 | 1 | 21 | 10 | 10 | 7 | 2 |
| 950 | 949 | | | | | |
| 888 | 1 | 21 | 10 | 10 | 7 | 2 |
| 949 | 948 | | | | | |
| 889 | 1 | 21 | 10 | 10 | 7 | 2 |
| 948 | 944 | | | | | |
| 890 | 1 | 21 | 10 | 10 | 7 | 2 |
| 944 | 943 | | | | | |
| 891 | 1 | 21 | 10 | 10 | 7 | 2 |
| 943 | 941 | | | | | |
| 892 | 1 | 21 | 13 | 13 | 7 | 2 |
| 532 | 531 | | | | | |
| 893 | 1 | 21 | 13 | 13 | 7 | 2 |
| 531 | 528 | | | | | |
| 894 | 1 | 21 | 13 | 13 | 7 | 2 |
| 528 | 527 | | | | | |
| 895 | 1 | 21 | 13 | 13 | 7 | 2 |
| 527 | 525 | | | | | |
| 896 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1584 | 1581 | | | | | |
| 897 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1081 | 1080 | | | | | |
| 898 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1080 | 1061 | | | | | |
| 899 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1061 | 1058 | | | | | |
| 900 | 1 | 21 | 13 | 13 | 7 | 2 |
| 634 | 633 | | | | | |
| 901 | 1 | 21 | 13 | 13 | 7 | 2 |
| 633 | 630 | | | | | |
| 902 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1557 | 1554 | | | | | |
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| 906 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 585 | 582 | | | | | |
| 908 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1530 | 1527 | | | | | |
| 909 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1023 | 1022 | | | | | |

| | | | | | | |
|------|------|----|----|----|---|---|
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| 882 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 884 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1478 | 1475 | | | | | |
| 885 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1475 | 1474 | | | | | |
| 886 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1474 | 1472 | | | | | |
| 887 | 1 | 21 | 10 | 10 | 7 | 2 |
| 950 | 949 | | | | | |
| 888 | 1 | 21 | 10 | 10 | 7 | 2 |
| 949 | 948 | | | | | |
| 889 | 1 | 21 | 10 | 10 | 7 | 2 |
| 948 | 944 | | | | | |
| 890 | 1 | 21 | 10 | 10 | 7 | 2 |
| 944 | 943 | | | | | |
| 891 | 1 | 21 | 10 | 10 | 7 | 2 |
| 943 | 941 | | | | | |
| 892 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 1584 | 1581 | | | | | |
| 897 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1081 | 1080 | | | | | |
| 898 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1080 | 1061 | | | | | |
| 899 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1061 | 1058 | | | | | |
| 900 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 633 | 630 | | | | | |
| 902 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1557 | 1554 | | | | | |
| 903 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 904 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1051 | 1032 | | | | | |
| 905 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1032 | 1029 | | | | | |
| 906 | 1 | 21 | 13 | 13 | 7 | 2 |
| 586 | 585 | | | | | |
| 907 | 1 | 21 | 13 | 13 | 7 | 2 |
| 585 | 582 | | | | | |
| 908 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1530 | 1527 | | | | | |
| 909 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1023 | 1022 | | | | | |

| | | | | | | |
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| 885 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1475 | 1474 | | | | | |
| 886 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1474 | 1472 | | | | | |
| 887 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 888 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 527 | 525 | | | | | |
| 896 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1584 | 1581 | | | | | |
| 897 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1081 | 1080 | | | | | |
| 898 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1080 | 1061 | | | | | |
| 899 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1061 | 1058 | | | | | |
| 900 | 1 | 21 | 13 | 13 | 7 | 2 |
| 634 | 633 | | | | | |
| 901 | 1 | 21 | 13 | 13 | 7 | 2 |
| 633 | 630 | | | | | |
| 902 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1557 | 1554 | | | | | |
| 903 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1052 | 1051 | | | | | |
| 904 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1051 | 1032 | | | | | |
| 905 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1032 | 1029 | | | | | |
| 906 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 907 | 1 | 21 | 13 | 13 | 7 | 2 |
| 585 | 582 | | | | | |
| 908 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1530 | 1527 | | | | | |
| 909 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1023 | 1022 | | | | | |

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|------|------|----|----|----|---|---|
| 543 | 540 | | | | | |
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| 885 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 1474 | 1472 | | | | | |
| 887 | 1 | 21 | 10 | 10 | 7 | 2 |
| 950 | 949 | | | | | |
| 888 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 889 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 891 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 528 | 527 | | | | | |
| 895 | 1 | 21 | 13 | 13 | 7 | 2 |
| 527 | 525 | | | | | |
| 896 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1584 | 1581 | | | | | |
| 897 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1081 | 1080 | | | | | |
| 898 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1080 | 1061 | | | | | |
| 899 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1061 | 1058 | | | | | |
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| 902 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1557 | 1554 | | | | | |
| 903 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 904 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1051 | 1032 | | | | | |
| 905 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1032 | 1029 | | | | | |
| 906 | 1 | 21 | 13 | 13 | 7 | 2 |
| 586 | 585 | | | | | |
| 907 | 1 | 21 | 13 | 13 | 7 | 2 |
| 585 | 582 | | | | | |
| 908 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1530 | 1527 | | | | | |
| 909 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1023 | 1022 | | | | | |

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|------|------|----|----|----|---|---|
| 543 | 540 | | | | | |
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| 883 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 1475 | 1474 | | | | | |
| 886 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1474 | 1472 | | | | | |
| 887 | 1 | 21 | 10 | 10 | 7 | 2 |
| 950 | 949 | | | | | |
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| 532 | 531 | | | | | |
| 893 | 1 | 21 | 13 | 13 | 7 | 2 |
| 531 | 528 | | | | | |
| 894 | 1 | 21 | 13 | 13 | 7 | 2 |
| 528 | 527 | | | | | |
| 895 | 1 | 21 | 13 | 13 | 7 | 2 |
| 527 | 525 | | | | | |
| 896 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1584 | 1581 | | | | | |
| 897 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1081 | 1080 | | | | | |
| 898 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1080 | 1061 | | | | | |
| 899 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 900 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 901 | 1 | 21 | 13 | 13 | 7 | 2 |
| 633 | 630 | | | | | |
| 902 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1557 | 1554 | | | | | |
| 903 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1052 | 1051 | | | | | |
| 904 | 1 | 21 | 10 | 10 | 7 | 2 |
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| 905 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1032 | 1029 | | | | | |
| 906 | 1 | 21 | 13 | 13 | 7 | 2 |
| 586 | 585 | | | | | |
| 907 | 1 | 21 | 13 | 13 | 7 | 2 |
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| 908 | 1 | 21 | 13 | 13 | 7 | 2 |
| 1530 | 1527 | | | | | |
| 909 | 1 | 21 | 10 | 10 | 7 | 2 |
| 1023 | 1022 | | | | | |

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| 7 | 598 | 7 | 599 | 7 | 515 | 7 |
| 7 | 523 | 7 | 561 | 7 | 563 | 7 |
| 7 | 595 | 7 | 596 | 7 | 396 | 7 |
| 7 | 438 | 7 | 439 | 7 | 387 | 7 |
| 7 | 395 | 7 | 409 | 7 | 411 | 7 |
| 7 | 435 | 7 | 436 | 7 | 268 | 7 |
| 7 | 310 | 7 | 311 | 7 | 259 | 7 |
| 7 | 267 | 7 | 281 | 7 | 283 | 7 |
| 7 | 307 | 7 | 308 | 7 | 139 | 7 |
| 7 | 177 | 7 | 181 | 7 | 131 | 7 |
| 7 | 140 | 7 | 154 | 7 | 156 | 7 |
| 7 | 180 | 7 | 182 | 7 | 522 | 7 |
| 7 | 594 | 7 | 597 | 7 | 394 | 7 |
| 7 | 434 | 7 | 437 | 7 | 266 | 7 |
| 7 | 306 | 7 | 309 | 7 | 138 | 7 |
| 7 | 179 | 7 | 183 | 7 | 536 | 7 |
| 7 | 605 | 7 | 606 | 7 | 518 | 7 |
| 7 | 535 | 7 | 565 | 7 | 567 | 7 |
| 7 | 602 | 7 | 603 | 7 | 400 | 7 |
| 7 | 445 | 7 | 446 | 7 | 390 | 7 |
| 7 | 399 | 7 | 413 | 7 | 415 | 7 |
| 7 | 442 | 7 | 443 | 7 | 272 | 7 |
| 7 | 317 | 7 | 318 | 7 | 262 | 7 |
| 7 | 271 | 7 | 285 | 7 | 287 | 7 |
| 7 | 314 | 7 | 315 | 7 | 142 | 7 |
| 7 | 185 | 7 | 189 | 7 | 134 | 7 |
| 7 | 144 | 7 | 157 | 7 | 160 | 7 |
| 7 | 187 | 7 | 188 | 7 | 534 | 7 |
| 7 | 601 | 7 | 604 | 7 | 398 | 7 |
| 7 | 441 | 7 | 444 | 7 | 270 | 7 |
| 7 | 313 | 7 | 316 | 7 | 143 | 7 |
| 7 | 186 | 7 | 190 | 7 | 552 | 7 |
| 7 | 612 | 7 | 613 | 7 | 546 | 7 |
| 7 | 550 | 7 | 569 | 7 | 571 | 7 |
| 7 | 609 | 7 | 610 | 7 | 408 | 7 |
| 7 | 452 | 7 | 453 | 7 | 402 | 7 |
| 7 | 406 | 7 | 417 | 7 | 419 | 7 |
| 7 | 449 | 7 | 450 | 7 | 280 | 7 |
| 7 | 324 | 7 | 325 | 7 | 274 | 7 |
| 7 | 278 | 7 | 289 | 7 | 291 | 7 |
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| 7 | 192 | 7 | 196 | 7 | 146 | 7 |
| 7 | 151 | 7 | 161 | 7 | 164 | 7 |
| 7 | 194 | 7 | 195 | 7 | 551 | 7 |
| 7 | 608 | 7 | 611 | 7 | 407 | 7 |
| 7 | 448 | 7 | 451 | 7 | 279 | 7 |
| 7 | 320 | 7 | 323 | 7 | 152 | 7 |
| 7 | 193 | 7 | 197 | 7 | 580 | 7 |
| 7 | 619 | 7 | 620 | 7 | 574 | 7 |
| 7 | 578 | 7 | 589 | 7 | 590 | 7 |
| 7 | 616 | 7 | 617 | 7 | 428 | 7 |
| 7 | 459 | 7 | 460 | 7 | 422 | 7 |
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| 7 | 331 | 7 | 332 | 7 | 294 | 7 |
| 7 | 298 | 7 | 301 | 7 | 302 | 7 |
| 7 | 328 | 7 | 329 | 7 | 170 | 7 |
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| 7 | 171 | 7 | 173 | 7 | 175 | 7 |
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| 7 | 455 | 7 | 458 | 7 | 299 |
| 7 | 327 | 7 | 330 | 7 | 172 |
| 7 | 200 | 7 | 204 | 7 | 628 |
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| 7 | 626 | 7 | 637 | 7 | 638 |
| 7 | 642 | 7 | 643 | 7 | 468 |
| 7 | 478 | 7 | 479 | 7 | 462 |
| 7 | 466 | 7 | 469 | 7 | 470 |
| 7 | 474 | 7 | 475 | 7 | 340 |
| 7 | 350 | 7 | 351 | 7 | 334 |
| 7 | 338 | 7 | 341 | 7 | 342 |
| 7 | 346 | 7 | 347 | 7 | 210 |
| 7 | 218 | 7 | 221 | 7 | 206 |
| 7 | 211 | 7 | 213 | 7 | 215 |
| 7 | 219 | 7 | 220 | 7 | 627 |
| 7 | 644 | 7 | 645 | 7 | 467 |
| 7 | 476 | 7 | 477 | 7 | 339 |
| 7 | 348 | 7 | 349 | 7 | 212 |
| 7 | 222 | 7 | 223 | 7 | 660 |
| 7 | 680 | 7 | 681 | 7 | 649 |
| 7 | 656 | 7 | 665 | 7 | 666 |
| 7 | 673 | 7 | 674 | 7 | 492 |
| 7 | 509 | 7 | 510 | 7 | 481 |
| 7 | 488 | 7 | 494 | 7 | 495 |
| 7 | 502 | 7 | 503 | 7 | 364 |
| 7 | 381 | 7 | 382 | 7 | 353 |
| 7 | 360 | 7 | 366 | 7 | 367 |
| 7 | 374 | 7 | 375 | 7 | 232 |
| 7 | 246 | 7 | 249 | 7 | 225 |
| 7 | 233 | 7 | 238 | 7 | 240 |
| 7 | 247 | 7 | 248 | 7 | 658 |
| 7 | 676 | 7 | 679 | 7 | 490 |
| 7 | 505 | 7 | 508 | 7 | 362 |
| 7 | 377 | 7 | 380 | 7 | 235 |
| 7 | 251 | 7 | 255 | 7 | 661 |
| 7 | 682 | 7 | 683 | 7 | 652 |
| 7 | 659 | 7 | 667 | 7 | 669 |
| 7 | 677 | 7 | 678 | 7 | 493 |
| 7 | 511 | 7 | 512 | 7 | 484 |
| 7 | 491 | 7 | 496 | 7 | 498 |
| 7 | 506 | 7 | 507 | 7 | 365 |
| 7 | 383 | 7 | 384 | 7 | 356 |
| 7 | 363 | 7 | 368 | 7 | 370 |
| 7 | 378 | 7 | 379 | 7 | 236 |
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| 7 | 237 | 7 | 241 | 7 | 244 |
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| 7 | 12 | 7 | 26 | 7 | 28 |
| 7 | 52 | 7 | 54 | 7 | 11 |
| 7 | 51 | 7 | 55 | 7 | 14 |
| 7 | 57 | 7 | 61 | 7 | 7 |
| 7 | 16 | 7 | 29 | 7 | 32 |
| 7 | 59 | 7 | 60 | 7 | 15 |
| 7 | 58 | 7 | 62 | 7 | 22 |
| 7 | 64 | 7 | 68 | 7 | 19 |
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| 7 | 65 | 7 | 69 | 7 | 42 |

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| 7 | 43 | 7 | 45 | 7 | 47 | 7 |
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| 7 | 72 | 7 | 76 | 7 | 82 | 7 |
| 7 | 90 | 7 | 93 | 7 | 79 | 7 |
| 7 | 83 | 7 | 85 | 7 | 87 | 7 |
| 7 | 91 | 7 | 92 | 7 | 84 | 7 |
| 7 | 94 | 7 | 95 | 7 | 104 | 7 |
| 7 | 118 | 7 | 121 | 7 | 98 | 7 |
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| 7 | 122 | 7 | 126 | 7 | 108 | 7 |
| 7 | 124 | 7 | 128 | 7 | 102 | 7 |
| 7 | 109 | 7 | 114 | 7 | 116 | 7 |
| 7 | 125 | 7 | 127 | | | |
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LOWELNODES

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| 7 | 1925 | 7 | 1927 | 7 | 1946 | 7 |
| 7 | 1947 | 7 | 1965 | 7 | 1963 | 7 |
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| 7 | 2007 | 7 | 2011 | 7 | 2013 | 7 |
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| 7 | 1842 | 7 | 1840 | 7 | 1843 | 7 |
| 7 | 1844 | 7 | 1848 | 7 | 1850 | 7 |
| 7 | 1699 | 7 | 1696 | 7 | 1483 | 7 |
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| 7 | 1627 | 7 | 1373 | 7 | 1722 | 7 |
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| 7 | 1230 | 7 | 1013 | 7 | 1011 | 7 |
| 7 | 874 | 7 | 1236 | 7 | 1232 | 7 |
| 7 | 875 | 7 | 1242 | 7 | 1240 | 7 |
| 7 | 1042 | 7 | 1040 | 7 | 880 | 7 |
| 7 | 1243 | 7 | 1239 | 7 | 1043 | 7 |
| 7 | 1249 | 7 | 1247 | 7 | 1244 | 7 |
| 7 | 1069 | 7 | 884 | 7 | 882 | 7 |
| 7 | 1246 | 7 | 1072 | 7 | 885 | 7 |
| 7 | 1256 | 7 | 1251 | 7 | 1103 | 7 |
| 7 | 888 | 7 | 886 | 7 | 1262 | 7 |
| 7 | 1105 | 7 | 890 | 7 | 1259 | 7 |
| 7 | 1252 | 7 | 1102 | 7 | 1101 | 7 |

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|----------|-----|---|-----|---|-----|---|
| 7 | 889 | 7 | 741 | 7 | 738 | 7 |
| 7 | 745 | 7 | 742 | 7 | 743 | 7 |
| 7 | 746 | 7 | 747 | 7 | 753 | 7 |
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| 7 | 760 | 7 | 564 | 7 | 568 | 7 |
| 7 | 592 | 7 | 640 | 7 | 670 | 7 |
| 3 | 0 | 0 | 0 | 0 | 432 | |
| CONCRETE | | | | | | |
| 8 | 387 | 8 | 388 | 8 | 389 | 8 |
| 8 | 391 | 8 | 392 | 8 | 393 | 8 |
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| 8 | 399 | 8 | 400 | 8 | 401 | 8 |
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| 8 | 407 | 8 | 408 | 8 | 409 | 8 |
| 8 | 411 | 8 | 412 | 8 | 413 | 8 |
| 8 | 415 | 8 | 416 | 8 | 417 | 8 |
| 8 | 419 | 8 | 420 | 8 | 421 | 8 |
| 8 | 423 | 8 | 424 | 8 | 425 | 8 |
| 8 | 427 | 8 | 428 | 8 | 429 | 8 |
| 8 | 431 | 8 | 432 | 8 | 433 | 8 |
| 8 | 435 | 8 | 436 | 8 | 437 | 8 |
| 8 | 439 | 8 | 440 | 8 | 441 | 8 |
| 8 | 443 | 8 | 444 | 8 | 445 | 8 |
| 8 | 447 | 8 | 448 | 8 | 449 | 8 |
| 8 | 451 | 8 | 452 | 8 | 453 | 8 |
| 8 | 455 | 8 | 456 | 8 | 457 | 8 |
| 8 | 459 | 8 | 460 | 8 | 461 | 8 |
| 8 | 463 | 8 | 464 | 8 | 465 | 8 |
| 8 | 467 | 8 | 468 | 8 | 469 | 8 |
| 8 | 471 | 8 | 472 | 8 | 473 | 8 |
| 8 | 475 | 8 | 476 | 8 | 477 | 8 |
| 8 | 479 | 8 | 480 | 8 | 481 | 8 |
| 8 | 483 | 8 | 484 | 8 | 485 | 8 |
| 8 | 487 | 8 | 488 | 8 | 489 | 8 |
| 8 | 491 | 8 | 492 | 8 | 493 | 8 |
| 8 | 495 | 8 | 496 | 8 | 497 | 8 |
| 8 | 499 | 8 | 500 | 8 | 501 | 8 |
| 8 | 503 | 8 | 504 | 8 | 505 | 8 |
| 8 | 507 | 8 | 508 | 8 | 509 | 8 |
| 8 | 511 | 8 | 512 | 8 | 513 | 8 |
| 8 | 515 | 8 | 516 | 8 | 517 | 8 |
| 8 | 519 | 8 | 520 | 8 | 521 | 8 |
| 8 | 523 | 8 | 524 | 8 | 525 | 8 |
| 8 | 527 | 8 | 528 | 8 | 529 | 8 |
| 8 | 531 | 8 | 532 | 8 | 533 | 8 |
| 8 | 535 | 8 | 536 | 8 | 537 | 8 |
| 8 | 539 | 8 | 540 | 8 | 541 | 8 |
| 8 | 543 | 8 | 544 | 8 | 545 | 8 |
| 8 | 547 | 8 | 548 | 8 | 549 | 8 |
| 8 | 551 | 8 | 552 | 8 | 553 | 8 |
| 8 | 555 | 8 | 556 | 8 | 557 | 8 |
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| 8 | 563 | 8 | 564 | 8 | 565 | 8 |
| 8 | 567 | 8 | 568 | 8 | 569 | 8 |
| 8 | 571 | 8 | 572 | 8 | 573 | 8 |
| 8 | 575 | 8 | 576 | 8 | 577 | 8 |
| 8 | 579 | 8 | 580 | 8 | 581 | 8 |
| 8 | 583 | 8 | 584 | 8 | 585 | 8 |
| 8 | 587 | 8 | 588 | 8 | 589 | 8 |

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|---|-----|---|-----|---|-----|---|
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| 8 | 595 | 8 | 596 | 8 | 597 | 8 |
| 8 | 599 | 8 | 600 | 8 | 601 | 8 |
| 8 | 603 | 8 | 604 | 8 | 605 | 8 |
| 8 | 607 | 8 | 608 | 8 | 609 | 8 |
| 8 | 611 | 8 | 612 | 8 | 613 | 8 |
| 8 | 615 | 8 | 616 | 8 | 617 | 8 |
| 8 | 619 | 8 | 620 | 8 | 621 | 8 |
| 8 | 623 | 8 | 624 | 8 | 625 | 8 |
| 8 | 627 | 8 | 628 | 8 | 629 | 8 |
| 8 | 631 | 8 | 632 | 8 | 633 | 8 |
| 8 | 635 | 8 | 636 | 8 | 637 | 8 |
| 8 | 639 | 8 | 640 | 8 | 641 | 8 |
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| 8 | 647 | 8 | 648 | 8 | 649 | 8 |
| 8 | 651 | 8 | 652 | 8 | 653 | 8 |
| 8 | 655 | 8 | 656 | 8 | 657 | 8 |
| 8 | 659 | 8 | 660 | 8 | 661 | 8 |
| 8 | 663 | 8 | 664 | 8 | 665 | 8 |
| 8 | 667 | 8 | 668 | 8 | 669 | 8 |
| 8 | 671 | 8 | 672 | 8 | 673 | 8 |
| 8 | 675 | 8 | 676 | 8 | 677 | 8 |
| 8 | 679 | 8 | 680 | 8 | 681 | 8 |
| 8 | 683 | 8 | 684 | 8 | 685 | 8 |
| 8 | 687 | 8 | 688 | 8 | 689 | 8 |
| 8 | 691 | 8 | 692 | 8 | 693 | 8 |
| 8 | 695 | 8 | 696 | 8 | 697 | 8 |
| 8 | 699 | 8 | 700 | 8 | 701 | 8 |
| 8 | 703 | 8 | 704 | 8 | 705 | 8 |
| 8 | 707 | 8 | 708 | 8 | 709 | 8 |
| 8 | 711 | 8 | 712 | 8 | 713 | 8 |
| 8 | 715 | 8 | 716 | 8 | 717 | 8 |
| 8 | 719 | 8 | 720 | 8 | 721 | 8 |
| 8 | 723 | 8 | 724 | 8 | 725 | 8 |
| 8 | 727 | 8 | 728 | 8 | 729 | 8 |
| 8 | 731 | 8 | 732 | 8 | 733 | 8 |
| 8 | 735 | 8 | 736 | 8 | 737 | 8 |
| 8 | 739 | 8 | 740 | 8 | 741 | 8 |
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| 8 | 747 | 8 | 748 | 8 | 749 | 8 |
| 8 | 751 | 8 | 752 | 8 | 753 | 8 |
| 8 | 755 | 8 | 756 | 8 | 757 | 8 |
| 8 | 759 | 8 | 760 | 8 | 761 | 8 |
| 8 | 763 | 8 | 764 | 8 | 765 | 8 |
| 8 | 767 | 8 | 768 | 8 | 769 | 8 |
| 8 | 771 | 8 | 772 | 8 | 773 | 8 |
| 8 | 775 | 8 | 776 | 8 | 777 | 8 |
| 8 | 779 | 8 | 780 | 8 | 781 | 8 |
| 8 | 783 | 8 | 784 | 8 | 785 | 8 |
| 8 | 787 | 8 | 788 | 8 | 789 | 8 |
| 8 | 791 | 8 | 792 | 8 | 793 | 8 |
| 8 | 795 | 8 | 796 | 8 | 797 | 8 |
| 8 | 799 | 8 | 800 | 8 | 801 | 8 |
| 8 | 803 | 8 | 804 | 8 | 805 | 8 |
| 8 | 807 | 8 | 808 | 8 | 809 | 8 |
| 8 | 811 | 8 | 812 | 8 | 813 | 8 |
| 8 | 815 | 8 | 816 | 8 | 817 | 8 |
| 4 | 0 | 0 | 0 | 0 | 144 | |
| 8 | 531 | 8 | 532 | 8 | 533 | 8 |

PATCH CONCRETE

| | | | | | | |
|----------|------|---|------|---|------|---|
| 8 | 535 | 8 | 536 | 8 | 537 | 8 |
| 8 | 539 | 8 | 540 | 8 | 541 | 8 |
| 8 | 543 | 8 | 544 | 8 | 545 | 8 |
| 8 | 547 | 8 | 548 | 8 | 549 | 8 |
| 8 | 551 | 8 | 552 | 8 | 553 | 8 |
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| 8 | 563 | 8 | 564 | 8 | 565 | 8 |
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| 8 | 571 | 8 | 572 | 8 | 573 | 8 |
| 8 | 575 | 8 | 576 | 8 | 577 | 8 |
| 8 | 579 | 8 | 580 | 8 | 581 | 8 |
| 8 | 583 | 8 | 584 | 8 | 585 | 8 |
| 8 | 587 | 8 | 588 | 8 | 589 | 8 |
| 8 | 591 | 8 | 592 | 8 | 593 | 8 |
| 8 | 595 | 8 | 596 | 8 | 597 | 8 |
| 8 | 599 | 8 | 600 | 8 | 601 | 8 |
| 8 | 603 | 8 | 604 | 8 | 605 | 8 |
| 8 | 607 | 8 | 608 | 8 | 609 | 8 |
| 8 | 611 | 8 | 612 | 8 | 613 | 8 |
| 8 | 615 | 8 | 616 | 8 | 617 | 8 |
| 8 | 619 | 8 | 620 | 8 | 621 | 8 |
| 8 | 623 | 8 | 624 | 8 | 625 | 8 |
| 8 | 627 | 8 | 628 | 8 | 629 | 8 |
| 8 | 631 | 8 | 632 | 8 | 633 | 8 |
| 8 | 635 | 8 | 636 | 8 | 637 | 8 |
| 8 | 639 | 8 | 640 | 8 | 641 | 8 |
| 8 | 643 | 8 | 644 | 8 | 645 | 8 |
| 8 | 647 | 8 | 648 | 8 | 649 | 8 |
| 8 | 651 | 8 | 652 | 8 | 653 | 8 |
| 8 | 655 | 8 | 656 | 8 | 657 | 8 |
| 8 | 659 | 8 | 660 | 8 | 661 | 8 |
| 8 | 663 | 8 | 664 | 8 | 665 | 8 |
| 8 | 667 | 8 | 668 | 8 | 669 | 8 |
| 8 | 671 | 8 | 672 | 8 | 673 | 8 |
| 5 | 0 | 0 | 0 | 0 | 247 | 8 |
| DWLNODES | | | | | | |
| 7 | 1609 | 7 | 1610 | 7 | 1608 | 7 |
| 7 | 1120 | 7 | 1088 | 7 | 1087 | 7 |
| 7 | 663 | 7 | 662 | 7 | 1587 | 7 |
| 7 | 1583 | 7 | 1582 | 7 | 1580 | 7 |
| 7 | 1083 | 7 | 1082 | 7 | 1060 | 7 |
| 7 | 1057 | 7 | 636 | 7 | 635 | 7 |
| 7 | 631 | 7 | 629 | 7 | 1585 | 7 |
| 7 | 1581 | 7 | 1081 | 7 | 1080 | 7 |
| 7 | 1058 | 7 | 634 | 7 | 633 | 7 |
| 7 | 1560 | 7 | 1559 | 7 | 1556 | 7 |
| 7 | 1553 | 7 | 1055 | 7 | 1054 | 7 |
| 7 | 1031 | 7 | 1030 | 7 | 1028 | 7 |
| 7 | 587 | 7 | 584 | 7 | 583 | 7 |
| 7 | 1558 | 7 | 1557 | 7 | 1554 | 7 |
| 7 | 1051 | 7 | 1032 | 7 | 1029 | 7 |
| 7 | 585 | 7 | 582 | 7 | 1533 | 7 |
| 7 | 1529 | 7 | 1528 | 7 | 1526 | 7 |
| 7 | 1025 | 7 | 1024 | 7 | 1002 | 7 |
| 7 | 999 | 7 | 560 | 7 | 559 | 7 |
| 7 | 555 | 7 | 553 | 7 | 1531 | 7 |
| 7 | 1527 | 7 | 1023 | 7 | 1022 | 7 |
| 7 | 1000 | 7 | 558 | 7 | 557 | 7 |
| 7 | 1499 | 7 | 1498 | 7 | 1495 | 7 |

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|-----------------|------|---|------|---|------|---|
| 7 | 1492 | 7 | 975 | 7 | 974 | 7 |
| 7 | 962 | 7 | 961 | 7 | 959 | 7 |
| 7 | 543 | 7 | 540 | 7 | 539 | 7 |
| 7 | 1497 | 7 | 1496 | 7 | 1493 | 7 |
| 7 | 971 | 7 | 963 | 7 | 960 | 7 |
| 7 | 541 | 7 | 538 | 7 | 1479 | 7 |
| 7 | 1475 | 7 | 1474 | 7 | 1472 | 7 |
| 7 | 949 | 7 | 948 | 7 | 944 | 7 |
| 7 | 941 | 7 | 532 | 7 | 531 | 7 |
| 7 | 527 | 7 | 525 | 7 | 1477 | 7 |
| 7 | 1473 | 7 | 947 | 7 | 946 | 7 |
| 7 | 942 | 7 | 530 | 7 | 529 | 7 |
| 8 | 819 | 8 | 820 | 8 | 821 | 8 |
| 8 | 823 | 8 | 824 | 8 | 825 | 8 |
| 8 | 827 | 8 | 831 | 8 | 828 | 8 |
| 8 | 829 | 8 | 833 | 8 | 830 | 8 |
| 8 | 835 | 8 | 836 | 8 | 848 | 8 |
| 8 | 872 | 8 | 884 | 8 | 837 | 8 |
| 8 | 861 | 8 | 873 | 8 | 885 | 8 |
| 8 | 850 | 8 | 862 | 8 | 874 | 8 |
| 8 | 839 | 8 | 851 | 8 | 863 | 8 |
| 8 | 887 | 8 | 840 | 8 | 852 | 8 |
| 8 | 876 | 8 | 888 | 8 | 841 | 8 |
| 8 | 865 | 8 | 877 | 8 | 889 | 8 |
| 8 | 854 | 8 | 866 | 8 | 878 | 8 |
| 8 | 843 | 8 | 855 | 8 | 867 | 8 |
| 8 | 891 | 8 | 844 | 8 | 856 | 8 |
| 8 | 880 | 8 | 892 | 8 | 845 | 8 |
| 8 | 869 | 8 | 881 | 8 | 893 | 8 |
| 8 | 858 | 8 | 870 | 8 | 882 | 8 |
| 8 | 847 | 8 | 859 | 8 | 871 | 8 |
| 8 | 895 | 8 | 896 | 8 | 902 | 8 |
| 8 | 914 | 8 | 920 | 8 | 897 | 8 |
| 8 | 909 | 8 | 915 | 8 | 921 | 8 |
| 8 | 904 | 8 | 910 | 8 | 916 | 8 |
| 8 | 899 | 8 | 905 | 8 | 911 | 8 |
| 8 | 923 | 8 | 900 | 8 | 906 | 8 |
| 8 | 918 | 8 | 924 | 8 | 901 | 8 |
| 8 | 913 | 8 | 919 | 8 | 925 | 8 |
| 6 | 0 | 0 | 0 | 0 | 527 | |
| DOWELSPRNGNODES | | | | | | |
| 7 | 1609 | 7 | 1610 | 7 | 1608 | 7 |
| 7 | 1120 | 7 | 1088 | 7 | 1087 | 7 |
| 7 | 663 | 7 | 662 | 7 | 1587 | 7 |
| 7 | 1583 | 7 | 1582 | 7 | 1580 | 7 |
| 7 | 1083 | 7 | 1082 | 7 | 1060 | 7 |
| 7 | 1925 | 7 | 1927 | 7 | 1944 | 7 |
| 7 | 1963 | 7 | 1966 | 7 | 1982 | 7 |
| 7 | 2007 | 7 | 2011 | 7 | 1825 | 7 |
| 7 | 1828 | 7 | 1829 | 7 | 1834 | 7 |
| 7 | 1835 | 7 | 1838 | 7 | 1836 | 7 |
| 7 | 1842 | 7 | 1840 | 7 | 1843 | 7 |
| 7 | 1844 | 7 | 1848 | 7 | 1697 | 7 |
| 7 | 1350 | 7 | 1703 | 7 | 1700 | 7 |
| 7 | 1355 | 7 | 1354 | 7 | 1702 | 7 |
| 7 | 1357 | 7 | 1707 | 7 | 1704 | 7 |
| 7 | 1359 | 7 | 1358 | 7 | 1706 | 7 |
| 7 | 1361 | 7 | 1711 | 7 | 1708 | 7 |
| 7 | 1363 | 7 | 1362 | 7 | 1710 | 7 |
| 7 | 1365 | 7 | 1715 | 7 | 1712 | 7 |

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| 7 | 1367 | 7 | 1366 | 7 | 1714 | 7 |
| 7 | 1369 | 7 | 1721 | 7 | 1716 | 7 |
| 7 | 1371 | 7 | 1370 | 7 | 1719 | 7 |
| 7 | 1373 | 7 | 1222 | 7 | 1217 | 7 |
| 7 | 867 | 7 | 1228 | 7 | 1226 | 7 |
| 7 | 980 | 7 | 873 | 7 | 870 | 7 |
| 7 | 1225 | 7 | 982 | 7 | 871 | 7 |
| 7 | 1233 | 7 | 1230 | 7 | 1011 | 7 |
| 7 | 874 | 7 | 1236 | 7 | 1232 | 7 |
| 7 | 875 | 7 | 1242 | 7 | 1240 | 7 |
| 7 | 1040 | 7 | 880 | 7 | 878 | 7 |
| 7 | 1239 | 7 | 1043 | 7 | 881 | 7 |
| 7 | 1247 | 7 | 1244 | 7 | 1069 | 7 |
| 7 | 882 | 7 | 1250 | 7 | 1246 | 7 |
| 7 | 885 | 7 | 1261 | 7 | 1256 | 7 |
| 7 | 1101 | 7 | 888 | 7 | 886 | 7 |
| 7 | 1254 | 7 | 1105 | 7 | 890 | 7 |
| 7 | 745 | 7 | 742 | 7 | 743 | 7 |
| 7 | 746 | 7 | 747 | 7 | 753 | 7 |
| 7 | 752 | 7 | 757 | 7 | 754 | 7 |
| 7 | 763 | 7 | 758 | 7 | 761 | 7 |
| 7 | 1057 | 7 | 636 | 7 | 635 | 7 |
| 7 | 631 | 7 | 629 | 7 | 1585 | 7 |
| 7 | 1581 | 7 | 1081 | 7 | 1080 | 7 |
| 7 | 1058 | 7 | 634 | 7 | 633 | 7 |
| 7 | 1560 | 7 | 1559 | 7 | 1556 | 7 |
| 7 | 1553 | 7 | 1055 | 7 | 1054 | 7 |
| 7 | 1031 | 7 | 1030 | 7 | 1028 | 7 |
| 7 | 587 | 7 | 584 | 7 | 583 | 7 |
| 7 | 1558 | 7 | 1557 | 7 | 1554 | 7 |
| 7 | 1051 | 7 | 1032 | 7 | 1029 | 7 |
| 7 | 585 | 7 | 582 | 7 | 1533 | 7 |
| 7 | 1529 | 7 | 1528 | 7 | 1526 | 7 |
| 7 | 1025 | 7 | 1024 | 7 | 1002 | 7 |
| 7 | 999 | 7 | 560 | 7 | 559 | 7 |
| 7 | 555 | 7 | 553 | 7 | 1531 | 7 |
| 7 | 1527 | 7 | 1023 | 7 | 1022 | 7 |
| 7 | 1000 | 7 | 558 | 7 | 557 | 7 |
| 7 | 1499 | 7 | 1498 | 7 | 1495 | 7 |
| 7 | 1492 | 7 | 975 | 7 | 974 | 7 |
| 7 | 962 | 7 | 961 | 7 | 959 | 7 |
| 7 | 543 | 7 | 540 | 7 | 539 | 7 |
| 7 | 1497 | 7 | 1496 | 7 | 1493 | 7 |
| 7 | 971 | 7 | 963 | 7 | 960 | 7 |
| 7 | 541 | 7 | 538 | 7 | 1479 | 7 |
| 7 | 1475 | 7 | 1474 | 7 | 1472 | 7 |
| 7 | 949 | 7 | 948 | 7 | 944 | 7 |
| 7 | 941 | 7 | 532 | 7 | 531 | 7 |
| 7 | 527 | 7 | 525 | 7 | 1477 | 7 |
| 7 | 1473 | 7 | 947 | 7 | 946 | 7 |
| 7 | 942 | 7 | 530 | 7 | 529 | 7 |
| 8 | 819 | 8 | 820 | 8 | 821 | 8 |
| 8 | 823 | 8 | 824 | 8 | 825 | 8 |
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| 8 | 829 | 8 | 833 | 8 | 830 | 8 |
| 8 | 835 | 8 | 836 | 8 | 848 | 8 |
| 8 | 872 | 8 | 884 | 8 | 837 | 8 |
| 8 | 861 | 8 | 873 | 8 | 885 | 8 |
| 8 | 850 | 8 | 862 | 8 | 874 | 8 |
| 8 | 839 | 8 | 851 | 8 | 863 | 8 |

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| 7 | 1367 | 7 | 1366 | 7 | 1714 | 7 |
| 7 | 1369 | 7 | 1721 | 7 | 1716 | 7 |
| 7 | 1371 | 7 | 1370 | 7 | 1719 | 7 |
| 7 | 1373 | 7 | 1222 | 7 | 1217 | 7 |
| 7 | 867 | 7 | 1228 | 7 | 1226 | 7 |
| 7 | 980 | 7 | 873 | 7 | 870 | 7 |
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| 7 | 882 | 7 | 1250 | 7 | 1246 | 7 |
| 7 | 885 | 7 | 1261 | 7 | 1256 | 7 |
| 7 | 1101 | 7 | 888 | 7 | 886 | 7 |
| 7 | 1254 | 7 | 1105 | 7 | 890 | 7 |
| 7 | 745 | 7 | 742 | 7 | 743 | 7 |
| 7 | 746 | 7 | 747 | 7 | 753 | 7 |
| 7 | 752 | 7 | 757 | 7 | 754 | 7 |
| 7 | 763 | 7 | 758 | 7 | 761 | 7 |
| 7 | 1057 | 7 | 636 | 7 | 635 | 7 |
| 7 | 631 | 7 | 629 | 7 | 1585 | 7 |
| 7 | 1581 | 7 | 1081 | 7 | 1080 | 7 |
| 7 | 1058 | 7 | 634 | 7 | 633 | 7 |
| 7 | 1560 | 7 | 1559 | 7 | 1556 | 7 |
| 7 | 1553 | 7 | 1055 | 7 | 1054 | 7 |
| 7 | 1031 | 7 | 1030 | 7 | 1028 | 7 |
| 7 | 587 | 7 | 584 | 7 | 583 | 7 |
| 7 | 1558 | 7 | 1557 | 7 | 1554 | 7 |
| 7 | 1051 | 7 | 1032 | 7 | 1029 | 7 |
| 7 | 585 | 7 | 582 | 7 | 1533 | 7 |
| 7 | 1529 | 7 | 1528 | 7 | 1526 | 7 |
| 7 | 1025 | 7 | 1024 | 7 | 1002 | 7 |
| 7 | 999 | 7 | 560 | 7 | 559 | 7 |
| 7 | 555 | 7 | 553 | 7 | 1531 | 7 |
| 7 | 1527 | 7 | 1023 | 7 | 1022 | 7 |
| 7 | 1000 | 7 | 558 | 7 | 557 | 7 |
| 7 | 1499 | 7 | 1498 | 7 | 1495 | 7 |
| 7 | 1492 | 7 | 975 | 7 | 974 | 7 |
| 7 | 962 | 7 | 961 | 7 | 959 | 7 |
| 7 | 543 | 7 | 540 | 7 | 539 | 7 |
| 7 | 1497 | 7 | 1496 | 7 | 1493 | 7 |
| 7 | 971 | 7 | 963 | 7 | 960 | 7 |
| 7 | 541 | 7 | 538 | 7 | 1479 | 7 |
| 7 | 1475 | 7 | 1474 | 7 | 1472 | 7 |
| 7 | 949 | 7 | 948 | 7 | 944 | 7 |
| 7 | 941 | 7 | 532 | 7 | 531 | 7 |
| 7 | 527 | 7 | 525 | 7 | 1477 | 7 |
| 7 | 1473 | 7 | 947 | 7 | 946 | 7 |
| 7 | 942 | 7 | 530 | 7 | 529 | 7 |
| 8 | 819 | 8 | 820 | 8 | 821 | 8 |
| 8 | 823 | 8 | 824 | 8 | 825 | 8 |
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| 8 | 829 | 8 | 833 | 8 | 830 | 8 |
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| 8 | 872 | 8 | 884 | 8 | 837 | 8 |
| 8 | 861 | 8 | 873 | 8 | 885 | 8 |
| 8 | 850 | 8 | 862 | 8 | 874 | 8 |
| 8 | 839 | 8 | 851 | 8 | 863 | 8 |

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|-----------------------|------|---|------|---|------|---|
| 8 | 887 | 8 | 840 | 8 | 852 | 8 |
| 8 | 876 | 8 | 888 | 8 | 841 | 8 |
| 8 | 865 | 8 | 877 | 8 | 889 | 8 |
| 8 | 854 | 8 | 866 | 8 | 878 | 8 |
| 8 | 843 | 8 | 855 | 8 | 867 | 8 |
| 8 | 891 | 8 | 926 | 8 | 927 | 8 |
| 8 | 856 | 8 | 868 | 8 | 880 | 8 |
| 8 | 845 | 8 | 857 | 8 | 869 | 8 |
| 8 | 893 | 8 | 846 | 8 | 858 | 8 |
| 8 | 882 | 8 | 894 | 8 | 847 | 8 |
| 8 | 871 | 8 | 883 | 8 | 895 | 8 |
| 8 | 902 | 8 | 908 | 8 | 914 | 8 |
| 8 | 928 | 8 | 929 | 8 | 930 | 8 |
| 8 | 932 | 8 | 897 | 8 | 903 | 8 |
| 8 | 934 | 8 | 935 | 8 | 909 | 8 |
| 8 | 921 | 8 | 898 | 8 | 904 | 8 |
| 8 | 916 | 8 | 922 | 8 | 899 | 8 |
| 8 | 911 | 8 | 917 | 8 | 923 | 8 |
| 8 | 937 | 8 | 938 | 8 | 939 | 8 |
| 8 | 900 | 8 | 906 | 8 | 912 | 8 |
| 8 | 924 | 8 | 901 | 8 | 907 | 8 |
| 8 | 919 | 8 | 925 | 8 | 941 | 8 |
| 8 | 943 | 8 | 944 | 8 | 945 | 8 |
| 8 | 947 | 8 | 948 | 8 | 949 | 8 |
| 8 | 951 | 8 | 952 | 8 | 953 | 8 |
| 8 | 955 | 8 | 956 | 8 | 957 | 8 |
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| 8 | 963 | 8 | 964 | 8 | 965 | 8 |
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| 8 | 975 | 8 | 976 | 8 | 977 | 8 |
| 8 | 979 | 8 | 980 | 8 | 981 | 8 |
| 8 | 983 | 8 | 984 | 8 | 1037 | 8 |
| 8 | 986 | 8 | 994 | 8 | 987 | 8 |
| 8 | 989 | 8 | 990 | 8 | 991 | 8 |
| 8 | 993 | 8 | 995 | 8 | 996 | 8 |
| 8 | 998 | 8 | 999 | 8 | 1000 | 8 |
| 8 | 1003 | 8 | 1002 | 8 | 1004 | 8 |
| 8 | 1006 | 8 | 1007 | 8 | 1008 | 8 |
| 8 | 1010 | 8 | 1011 | 8 | 1012 | 8 |
| 8 | 1014 | 8 | 1015 | 8 | 1016 | 8 |
| 8 | 1018 | 8 | 1019 | 8 | 1020 | 8 |
| 8 | 1022 | 8 | 1023 | 8 | 1024 | 8 |
| 8 | 1026 | 8 | 1027 | 8 | 1028 | 8 |
| 8 | 1030 | 8 | 1031 | 8 | 1032 | 8 |
| 8 | 1034 | 8 | 1035 | 8 | 1036 | 8 |
| 8 | 1039 | 8 | 1040 | 8 | 1041 | 8 |
| 8 | 1043 | 8 | 1044 | 8 | 1045 | 8 |
| 8 | 1047 | 8 | 1048 | 8 | 1049 | 8 |
| 8 | 1051 | 8 | 1064 | 8 | 1052 | 8 |
| 8 | 1054 | 8 | 1055 | 8 | 1056 | 8 |
| 8 | 1057 | 8 | 1058 | 8 | 1059 | 8 |
| 8 | 1061 | 8 | 1062 | 8 | 1063 | 8 |
| 7 | 0 | 0 | 0 | 0 | 386 | |
| SPRINGS (Basesprings) | | | | | | |
| 8 | 1 | 8 | 2 | 8 | 3 | 8 |
| 8 | 5 | 8 | 6 | 8 | 7 | 8 |
| 8 | 9 | 8 | 10 | 8 | 11 | 8 |
| 8 | 13 | 8 | 14 | 8 | 15 | 8 |
| 8 | 17 | 8 | 18 | 8 | 19 | 8 |

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| 8 | 261 | 8 | 262 | 8 | 263 | 8 |
| 8 | 265 | 8 | 266 | 8 | 267 | 8 |
| 8 | 269 | 8 | 270 | 8 | 271 | 8 |
| 8 | 273 | 8 | 274 | 8 | 275 | 8 |
| 8 | 277 | 8 | 278 | 8 | 279 | 8 |
| 8 | 281 | 8 | 282 | 8 | 283 | 8 |
| 8 | 285 | 8 | 286 | 8 | 287 | 8 |
| 8 | 289 | 8 | 290 | 8 | 291 | 8 |
| 8 | 293 | 8 | 294 | 8 | 295 | 8 |
| 8 | 297 | 8 | 298 | 8 | 299 | 8 |
| 8 | 301 | 8 | 302 | 8 | 303 | 8 |
| 8 | 305 | 8 | 306 | 8 | 307 | 8 |
| 8 | 309 | 8 | 310 | 8 | 311 | 8 |
| 8 | 313 | 8 | 314 | 8 | 315 | 8 |
| 8 | 317 | 8 | 318 | 8 | 319 | 8 |
| 8 | 321 | 8 | 322 | 8 | 323 | 8 |
| 8 | 325 | 8 | 326 | 8 | 327 | 8 |
| 8 | 329 | 8 | 330 | 8 | 331 | 8 |
| 8 | 333 | 8 | 334 | 8 | 335 | 8 |
| 8 | 337 | 8 | 338 | 8 | 339 | 8 |
| 8 | 341 | 8 | 342 | 8 | 343 | 8 |
| 8 | 345 | 8 | 346 | 8 | 347 | 8 |
| 8 | 349 | 8 | 350 | 8 | 351 | 8 |
| 8 | 353 | 8 | 354 | 8 | 355 | 8 |
| 8 | 357 | 8 | 358 | 8 | 359 | 8 |
| 8 | 361 | 8 | 362 | 8 | 363 | 8 |
| 8 | 365 | 8 | 366 | 8 | 367 | 8 |
| 8 | 369 | 8 | 370 | 8 | 371 | 8 |
| 8 | 373 | 8 | 374 | 8 | 375 | 8 |
| 8 | 377 | 8 | 378 | 8 | 379 | 8 |
| 8 | 381 | 8 | 382 | 8 | 383 | 8 |
| 8 | 385 | 8 | 386 | 8 | | |
| 8 | 0 | 0 | 0 | 0 | 3062 | |
| PERMANENT GROUP 8 | | | | | | |
| 7 | 2413 | 7 | 2414 | 7 | 2410 | 7 |
| 7 | 2411 | 7 | 2447 | 7 | 2446 | 7 |
| 7 | 2449 | 7 | 2445 | 7 | 2480 | 7 |
| 7 | 2476 | 7 | 2482 | 7 | 2478 | 7 |
| 7 | 2512 | 7 | 2509 | 7 | 2515 | 7 |
| 7 | 2546 | 7 | 2545 | 7 | 2542 | 7 |
| 7 | 2544 | 7 | 2581 | 7 | 2580 | 7 |
| 7 | 2585 | 7 | 2578 | 7 | 2584 | 7 |
| 7 | 2577 | 7 | 2285 | 7 | 2282 | 7 |
| 7 | 2154 | 7 | 2032 | 7 | 2029 | 7 |
| 7 | 1902 | 7 | 2283 | 7 | 2155 | 7 |
| 7 | 1903 | 7 | 2304 | 7 | 2301 | 7 |
| 7 | 2173 | 7 | 2051 | 7 | 2048 | 7 |
| 7 | 1921 | 7 | 2303 | 7 | 2175 | 7 |
| 7 | 1923 | 7 | 2323 | 7 | 2320 | 7 |
| 7 | 2192 | 7 | 2070 | 7 | 2067 | 7 |
| 7 | 1940 | 7 | 2322 | 7 | 2194 | 7 |
| 7 | 1942 | 7 | 2342 | 7 | 2339 | 7 |
| 7 | 2211 | 7 | 2089 | 7 | 2086 | 7 |
| 7 | 1959 | 7 | 2341 | 7 | 2213 | 7 |
| 7 | 1961 | 7 | 2361 | 7 | 2358 | 7 |
| 7 | 2230 | 7 | 2108 | 7 | 2105 | 7 |
| 7 | 1978 | 7 | 2360 | 7 | 2232 | 7 |
| 7 | 1980 | 7 | 2382 | 7 | 2377 | 7 |
| 7 | 2249 | 7 | 2131 | 7 | 2126 | 7 |
| 7 | 2000 | 7 | 2380 | 7 | 2252 | 7 |

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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
| 7 | 1868 | 7 | 1796 | 7 | 1835 | 7 |
| 7 | 1870 | 7 | 1801 | 7 | 1838 | 7 |
| 7 | 1878 | 7 | 1799 | 7 | 1800 | 7 |
| 7 | 1836 | 7 | 1837 | 7 | 1872 | 7 |
| 7 | 1875 | 7 | 1803 | 7 | 1839 | 7 |
| 7 | 1877 | 7 | 1808 | 7 | 1842 | 7 |
| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
| 7 | 1840 | 7 | 1841 | 7 | 1879 | 7 |
| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
| 7 | 1884 | 7 | 1815 | 7 | 1846 | 7 |
| 7 | 1896 | 7 | 1813 | 7 | 1814 | 7 |
| 7 | 1844 | 7 | 1845 | 7 | 1886 | 7 |
| 7 | 1889 | 7 | 1820 | 7 | 1848 | 7 |
| 7 | 1895 | 7 | 1821 | 7 | 1850 | 7 |
| 7 | 1897 | 7 | 1818 | 7 | 1819 | 7 |
| 7 | 1847 | 7 | 1849 | 7 | 1890 | 7 |
| 7 | 1894 | 7 | 1655 | 7 | 1699 | 7 |
| 7 | 1729 | 7 | 1653 | 7 | 1649 | 7 |
| 7 | 1696 | 7 | 1698 | 7 | 1723 | 7 |
| 7 | 1726 | 7 | 1486 | 7 | 1483 | 7 |
| 7 | 1515 | 7 | 1490 | 7 | 1484 | 7 |
| 7 | 1481 | 7 | 1482 | 7 | 1511 | 7 |
| 7 | 1516 | 7 | 1377 | 7 | 1351 | 7 |
| 7 | 1428 | 7 | 1383 | 7 | 1378 | 7 |
| 7 | 1352 | 7 | 1353 | 7 | 1425 | 7 |
| 7 | 1429 | 7 | 1650 | 7 | 1697 | 7 |
| 7 | 1727 | 7 | 1485 | 7 | 1480 | 7 |
| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
| 7 | 1430 | 7 | 1662 | 7 | 1703 | 7 |
| 7 | 1736 | 7 | 1659 | 7 | 1656 | 7 |
| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
| 7 | 1733 | 7 | 1501 | 7 | 1509 | 7 |
| 7 | 1523 | 7 | 1505 | 7 | 1500 | 7 |
| 7 | 1507 | 7 | 1508 | 7 | 1518 | 7 |
| 7 | 1522 | 7 | 1385 | 7 | 1355 | 7 |
| 7 | 1436 | 7 | 1389 | 7 | 1384 | 7 |
| 7 | 1354 | 7 | 1356 | 7 | 1431 | 7 |
| 7 | 1435 | 7 | 1657 | 7 | 1702 | 7 |
| 7 | 1734 | 7 | 1502 | 7 | 1510 | 7 |
| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
| 7 | 1437 | 7 | 1669 | 7 | 1707 | 7 |
| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
| 7 | 1704 | 7 | 1705 | 7 | 1737 | 7 |
| 7 | 1740 | 7 | 1535 | 7 | 1543 | 7 |
| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
| 7 | 1549 | 7 | 1392 | 7 | 1359 | 7 |
| 7 | 1443 | 7 | 1396 | 7 | 1391 | 7 |
| 7 | 1358 | 7 | 1360 | 7 | 1438 | 7 |
| 7 | 1442 | 7 | 1664 | 7 | 1706 | 7 |
| 7 | 1741 | 7 | 1536 | 7 | 1544 | 7 |
| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
| 7 | 1444 | 7 | 1676 | 7 | 1711 | 7 |
| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
| 7 | 1708 | 7 | 1709 | 7 | 1744 | 7 |
| 7 | 1747 | 7 | 1562 | 7 | 1570 | 7 |
| 7 | 1577 | 7 | 1565 | 7 | 1561 | 7 |
| 7 | 1568 | 7 | 1560 | 7 | 1572 | 7 |

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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
| 7 | 1868 | 7 | 1796 | 7 | 1835 | 7 |
| 7 | 1870 | 7 | 1801 | 7 | 1838 | 7 |
| 7 | 1878 | 7 | 1799 | 7 | 1800 | 7 |
| 7 | 1836 | 7 | 1837 | 7 | 1872 | 7 |
| 7 | 1875 | 7 | 1803 | 7 | 1839 | 7 |
| 7 | 1877 | 7 | 1808 | 7 | 1842 | 7 |
| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
| 7 | 1840 | 7 | 1841 | 7 | 1879 | 7 |
| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
| 7 | 1884 | 7 | 1815 | 7 | 1846 | 7 |
| 7 | 1896 | 7 | 1813 | 7 | 1814 | 7 |
| 7 | 1844 | 7 | 1845 | 7 | 1886 | 7 |
| 7 | 1889 | 7 | 1820 | 7 | 1848 | 7 |
| 7 | 1895 | 7 | 1821 | 7 | 1850 | 7 |
| 7 | 1897 | 7 | 1818 | 7 | 1819 | 7 |
| 7 | 1847 | 7 | 1849 | 7 | 1890 | 7 |
| 7 | 1894 | 7 | 1655 | 7 | 1699 | 7 |
| 7 | 1729 | 7 | 1653 | 7 | 1649 | 7 |
| 7 | 1696 | 7 | 1698 | 7 | 1723 | 7 |
| 7 | 1726 | 7 | 1486 | 7 | 1483 | 7 |
| 7 | 1515 | 7 | 1490 | 7 | 1484 | 7 |
| 7 | 1481 | 7 | 1482 | 7 | 1511 | 7 |
| 7 | 1516 | 7 | 1377 | 7 | 1351 | 7 |
| 7 | 1428 | 7 | 1383 | 7 | 1378 | 7 |
| 7 | 1352 | 7 | 1353 | 7 | 1425 | 7 |
| 7 | 1429 | 7 | 1650 | 7 | 1697 | 7 |
| 7 | 1727 | 7 | 1485 | 7 | 1480 | 7 |
| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
| 7 | 1430 | 7 | 1662 | 7 | 1703 | 7 |
| 7 | 1736 | 7 | 1659 | 7 | 1656 | 7 |
| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
| 7 | 1733 | 7 | 1501 | 7 | 1509 | 7 |
| 7 | 1523 | 7 | 1505 | 7 | 1500 | 7 |
| 7 | 1507 | 7 | 1508 | 7 | 1518 | 7 |
| 7 | 1522 | 7 | 1385 | 7 | 1355 | 7 |
| 7 | 1436 | 7 | 1389 | 7 | 1384 | 7 |
| 7 | 1354 | 7 | 1356 | 7 | 1431 | 7 |
| 7 | 1435 | 7 | 1657 | 7 | 1702 | 7 |
| 7 | 1734 | 7 | 1502 | 7 | 1510 | 7 |
| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
| 7 | 1437 | 7 | 1669 | 7 | 1707 | 7 |
| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
| 7 | 1704 | 7 | 1705 | 7 | 1737 | 7 |
| 7 | 1740 | 7 | 1535 | 7 | 1543 | 7 |
| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
| 7 | 1549 | 7 | 1392 | 7 | 1359 | 7 |
| 7 | 1443 | 7 | 1396 | 7 | 1391 | 7 |
| 7 | 1358 | 7 | 1360 | 7 | 1438 | 7 |
| 7 | 1442 | 7 | 1664 | 7 | 1706 | 7 |
| 7 | 1741 | 7 | 1536 | 7 | 1544 | 7 |
| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
| 7 | 1444 | 7 | 1676 | 7 | 1711 | 7 |
| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
| 7 | 1708 | 7 | 1709 | 7 | 1744 | 7 |
| 7 | 1747 | 7 | 1562 | 7 | 1570 | 7 |
| 7 | 1577 | 7 | 1565 | 7 | 1561 | 7 |
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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
| 7 | 1868 | 7 | 1796 | 7 | 1835 | 7 |
| 7 | 1870 | 7 | 1801 | 7 | 1838 | 7 |
| 7 | 1878 | 7 | 1799 | 7 | 1800 | 7 |
| 7 | 1836 | 7 | 1837 | 7 | 1872 | 7 |
| 7 | 1875 | 7 | 1803 | 7 | 1839 | 7 |
| 7 | 1877 | 7 | 1808 | 7 | 1842 | 7 |
| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
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| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
| 7 | 1884 | 7 | 1815 | 7 | 1846 | 7 |
| 7 | 1896 | 7 | 1813 | 7 | 1814 | 7 |
| 7 | 1844 | 7 | 1845 | 7 | 1886 | 7 |
| 7 | 1889 | 7 | 1820 | 7 | 1848 | 7 |
| 7 | 1895 | 7 | 1821 | 7 | 1850 | 7 |
| 7 | 1897 | 7 | 1818 | 7 | 1819 | 7 |
| 7 | 1847 | 7 | 1849 | 7 | 1890 | 7 |
| 7 | 1894 | 7 | 1655 | 7 | 1699 | 7 |
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| 7 | 1696 | 7 | 1698 | 7 | 1723 | 7 |
| 7 | 1726 | 7 | 1486 | 7 | 1483 | 7 |
| 7 | 1515 | 7 | 1490 | 7 | 1484 | 7 |
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| 7 | 1516 | 7 | 1377 | 7 | 1351 | 7 |
| 7 | 1428 | 7 | 1383 | 7 | 1378 | 7 |
| 7 | 1352 | 7 | 1353 | 7 | 1425 | 7 |
| 7 | 1429 | 7 | 1650 | 7 | 1697 | 7 |
| 7 | 1727 | 7 | 1485 | 7 | 1480 | 7 |
| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
| 7 | 1430 | 7 | 1662 | 7 | 1703 | 7 |
| 7 | 1736 | 7 | 1659 | 7 | 1656 | 7 |
| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
| 7 | 1733 | 7 | 1501 | 7 | 1509 | 7 |
| 7 | 1523 | 7 | 1505 | 7 | 1500 | 7 |
| 7 | 1507 | 7 | 1508 | 7 | 1518 | 7 |
| 7 | 1522 | 7 | 1385 | 7 | 1355 | 7 |
| 7 | 1436 | 7 | 1389 | 7 | 1384 | 7 |
| 7 | 1354 | 7 | 1356 | 7 | 1431 | 7 |
| 7 | 1435 | 7 | 1657 | 7 | 1702 | 7 |
| 7 | 1734 | 7 | 1502 | 7 | 1510 | 7 |
| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
| 7 | 1437 | 7 | 1669 | 7 | 1707 | 7 |
| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
| 7 | 1704 | 7 | 1705 | 7 | 1737 | 7 |
| 7 | 1740 | 7 | 1535 | 7 | 1543 | 7 |
| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
| 7 | 1549 | 7 | 1392 | 7 | 1359 | 7 |
| 7 | 1443 | 7 | 1396 | 7 | 1391 | 7 |
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| 7 | 1442 | 7 | 1664 | 7 | 1706 | 7 |
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| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
| 7 | 1444 | 7 | 1676 | 7 | 1711 | 7 |
| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
| 7 | 1708 | 7 | 1709 | 7 | 1744 | 7 |
| 7 | 1747 | 7 | 1562 | 7 | 1570 | 7 |
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| 7 | 1577 | 7 | 1565 | 7 | 1572 | 7 |

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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
| 7 | 1868 | 7 | 1796 | 7 | 1835 | 7 |
| 7 | 1870 | 7 | 1801 | 7 | 1838 | 7 |
| 7 | 1878 | 7 | 1799 | 7 | 1800 | 7 |
| 7 | 1836 | 7 | 1837 | 7 | 1872 | 7 |
| 7 | 1875 | 7 | 1803 | 7 | 1839 | 7 |
| 7 | 1877 | 7 | 1808 | 7 | 1842 | 7 |
| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
| 7 | 1840 | 7 | 1841 | 7 | 1879 | 7 |
| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
| 7 | 1884 | 7 | 1815 | 7 | 1846 | 7 |
| 7 | 1896 | 7 | 1813 | 7 | 1814 | 7 |
| 7 | 1844 | 7 | 1845 | 7 | 1886 | 7 |
| 7 | 1889 | 7 | 1820 | 7 | 1848 | 7 |
| 7 | 1895 | 7 | 1821 | 7 | 1850 | 7 |
| 7 | 1897 | 7 | 1818 | 7 | 1819 | 7 |
| 7 | 1847 | 7 | 1849 | 7 | 1890 | 7 |
| 7 | 1894 | 7 | 1655 | 7 | 1699 | 7 |
| 7 | 1729 | 7 | 1653 | 7 | 1649 | 7 |
| 7 | 1696 | 7 | 1698 | 7 | 1723 | 7 |
| 7 | 1726 | 7 | 1486 | 7 | 1483 | 7 |
| 7 | 1515 | 7 | 1490 | 7 | 1484 | 7 |
| 7 | 1481 | 7 | 1482 | 7 | 1511 | 7 |
| 7 | 1516 | 7 | 1377 | 7 | 1351 | 7 |
| 7 | 1428 | 7 | 1383 | 7 | 1378 | 7 |
| 7 | 1352 | 7 | 1353 | 7 | 1425 | 7 |
| 7 | 1429 | 7 | 1650 | 7 | 1697 | 7 |
| 7 | 1727 | 7 | 1485 | 7 | 1480 | 7 |
| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
| 7 | 1430 | 7 | 1662 | 7 | 1703 | 7 |
| 7 | 1736 | 7 | 1659 | 7 | 1656 | 7 |
| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
| 7 | 1733 | 7 | 1501 | 7 | 1509 | 7 |
| 7 | 1523 | 7 | 1505 | 7 | 1500 | 7 |
| 7 | 1507 | 7 | 1508 | 7 | 1518 | 7 |
| 7 | 1522 | 7 | 1385 | 7 | 1355 | 7 |
| 7 | 1436 | 7 | 1389 | 7 | 1384 | 7 |
| 7 | 1354 | 7 | 1356 | 7 | 1431 | 7 |
| 7 | 1435 | 7 | 1657 | 7 | 1702 | 7 |
| 7 | 1734 | 7 | 1502 | 7 | 1510 | 7 |
| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
| 7 | 1437 | 7 | 1669 | 7 | 1707 | 7 |
| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
| 7 | 1704 | 7 | 1705 | 7 | 1737 | 7 |
| 7 | 1740 | 7 | 1535 | 7 | 1543 | 7 |
| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
| 7 | 1549 | 7 | 1392 | 7 | 1359 | 7 |
| 7 | 1443 | 7 | 1396 | 7 | 1391 | 7 |
| 7 | 1358 | 7 | 1360 | 7 | 1438 | 7 |
| 7 | 1442 | 7 | 1664 | 7 | 1706 | 7 |
| 7 | 1741 | 7 | 1536 | 7 | 1544 | 7 |
| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
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| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
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| 7 | 1747 | 7 | 1562 | 7 | 1570 | 7 |
| 7 | 1577 | 7 | 1565 | 7 | 1561 | 7 |
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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
| 7 | 1868 | 7 | 1796 | 7 | 1835 | 7 |
| 7 | 1870 | 7 | 1801 | 7 | 1838 | 7 |
| 7 | 1878 | 7 | 1799 | 7 | 1800 | 7 |
| 7 | 1836 | 7 | 1837 | 7 | 1872 | 7 |
| 7 | 1875 | 7 | 1803 | 7 | 1839 | 7 |
| 7 | 1877 | 7 | 1808 | 7 | 1842 | 7 |
| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
| 7 | 1840 | 7 | 1841 | 7 | 1879 | 7 |
| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
| 7 | 1884 | 7 | 1815 | 7 | 1846 | 7 |
| 7 | 1896 | 7 | 1813 | 7 | 1814 | 7 |
| 7 | 1844 | 7 | 1845 | 7 | 1886 | 7 |
| 7 | 1889 | 7 | 1820 | 7 | 1848 | 7 |
| 7 | 1895 | 7 | 1821 | 7 | 1850 | 7 |
| 7 | 1897 | 7 | 1818 | 7 | 1819 | 7 |
| 7 | 1847 | 7 | 1849 | 7 | 1890 | 7 |
| 7 | 1894 | 7 | 1655 | 7 | 1699 | 7 |
| 7 | 1729 | 7 | 1653 | 7 | 1649 | 7 |
| 7 | 1696 | 7 | 1698 | 7 | 1723 | 7 |
| 7 | 1726 | 7 | 1486 | 7 | 1483 | 7 |
| 7 | 1515 | 7 | 1490 | 7 | 1484 | 7 |
| 7 | 1481 | 7 | 1482 | 7 | 1511 | 7 |
| 7 | 1516 | 7 | 1377 | 7 | 1351 | 7 |
| 7 | 1428 | 7 | 1383 | 7 | 1378 | 7 |
| 7 | 1352 | 7 | 1353 | 7 | 1425 | 7 |
| 7 | 1429 | 7 | 1650 | 7 | 1697 | 7 |
| 7 | 1727 | 7 | 1485 | 7 | 1480 | 7 |
| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
| 7 | 1430 | 7 | 1662 | 7 | 1703 | 7 |
| 7 | 1736 | 7 | 1659 | 7 | 1656 | 7 |
| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
| 7 | 1733 | 7 | 1501 | 7 | 1509 | 7 |
| 7 | 1523 | 7 | 1505 | 7 | 1500 | 7 |
| 7 | 1507 | 7 | 1508 | 7 | 1518 | 7 |
| 7 | 1522 | 7 | 1385 | 7 | 1355 | 7 |
| 7 | 1436 | 7 | 1389 | 7 | 1384 | 7 |
| 7 | 1354 | 7 | 1356 | 7 | 1431 | 7 |
| 7 | 1435 | 7 | 1657 | 7 | 1702 | 7 |
| 7 | 1734 | 7 | 1502 | 7 | 1510 | 7 |
| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
| 7 | 1437 | 7 | 1669 | 7 | 1707 | 7 |
| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
| 7 | 1704 | 7 | 1705 | 7 | 1737 | 7 |
| 7 | 1740 | 7 | 1535 | 7 | 1543 | 7 |
| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
| 7 | 1549 | 7 | 1392 | 7 | 1359 | 7 |
| 7 | 1443 | 7 | 1396 | 7 | 1391 | 7 |
| 7 | 1358 | 7 | 1360 | 7 | 1438 | 7 |
| 7 | 1442 | 7 | 1664 | 7 | 1706 | 7 |
| 7 | 1741 | 7 | 1536 | 7 | 1544 | 7 |
| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
| 7 | 1444 | 7 | 1676 | 7 | 1711 | 7 |
| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
| 7 | 1708 | 7 | 1709 | 7 | 1744 | 7 |
| 7 | 1747 | 7 | 1562 | 7 | 1570 | 7 |
| 7 | 1577 | 7 | 1565 | 7 | 1561 | 7 |
| 7 | 1568 | 7 | 1568 | 7 | 1572 | 7 |

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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
| 7 | 1868 | 7 | 1796 | 7 | 1835 | 7 |
| 7 | 1870 | 7 | 1801 | 7 | 1838 | 7 |
| 7 | 1878 | 7 | 1799 | 7 | 1800 | 7 |
| 7 | 1836 | 7 | 1837 | 7 | 1872 | 7 |
| 7 | 1875 | 7 | 1803 | 7 | 1839 | 7 |
| 7 | 1877 | 7 | 1808 | 7 | 1842 | 7 |
| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
| 7 | 1840 | 7 | 1841 | 7 | 1879 | 7 |
| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
| 7 | 1884 | 7 | 1815 | 7 | 1846 | 7 |
| 7 | 1896 | 7 | 1813 | 7 | 1814 | 7 |
| 7 | 1844 | 7 | 1845 | 7 | 1886 | 7 |
| 7 | 1889 | 7 | 1820 | 7 | 1848 | 7 |
| 7 | 1895 | 7 | 1821 | 7 | 1850 | 7 |
| 7 | 1897 | 7 | 1818 | 7 | 1819 | 7 |
| 7 | 1847 | 7 | 1849 | 7 | 1890 | 7 |
| 7 | 1894 | 7 | 1655 | 7 | 1699 | 7 |
| 7 | 1729 | 7 | 1653 | 7 | 1649 | 7 |
| 7 | 1696 | 7 | 1698 | 7 | 1723 | 7 |
| 7 | 1726 | 7 | 1486 | 7 | 1483 | 7 |
| 7 | 1515 | 7 | 1490 | 7 | 1484 | 7 |
| 7 | 1481 | 7 | 1482 | 7 | 1511 | 7 |
| 7 | 1516 | 7 | 1377 | 7 | 1351 | 7 |
| 7 | 1428 | 7 | 1383 | 7 | 1378 | 7 |
| 7 | 1352 | 7 | 1353 | 7 | 1425 | 7 |
| 7 | 1429 | 7 | 1650 | 7 | 1697 | 7 |
| 7 | 1727 | 7 | 1485 | 7 | 1480 | 7 |
| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
| 7 | 1430 | 7 | 1662 | 7 | 1703 | 7 |
| 7 | 1736 | 7 | 1659 | 7 | 1656 | 7 |
| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
| 7 | 1733 | 7 | 1501 | 7 | 1509 | 7 |
| 7 | 1523 | 7 | 1505 | 7 | 1500 | 7 |
| 7 | 1507 | 7 | 1508 | 7 | 1518 | 7 |
| 7 | 1522 | 7 | 1385 | 7 | 1355 | 7 |
| 7 | 1436 | 7 | 1389 | 7 | 1384 | 7 |
| 7 | 1354 | 7 | 1356 | 7 | 1431 | 7 |
| 7 | 1435 | 7 | 1657 | 7 | 1702 | 7 |
| 7 | 1734 | 7 | 1502 | 7 | 1510 | 7 |
| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
| 7 | 1437 | 7 | 1669 | 7 | 1707 | 7 |
| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
| 7 | 1704 | 7 | 1705 | 7 | 1737 | 7 |
| 7 | 1740 | 7 | 1535 | 7 | 1543 | 7 |
| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
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| 7 | 1358 | 7 | 1360 | 7 | 1438 | 7 |
| 7 | 1442 | 7 | 1664 | 7 | 1706 | 7 |
| 7 | 1741 | 7 | 1536 | 7 | 1544 | 7 |
| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
| 7 | 1444 | 7 | 1676 | 7 | 1711 | 7 |
| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
| 7 | 1708 | 7 | 1709 | 7 | 1744 | 7 |
| 7 | 1747 | 7 | 1562 | 7 | 1570 | 7 |
| 7 | 1577 | 7 | 1565 | 7 | 1561 | 7 |
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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
| 7 | 1868 | 7 | 1796 | 7 | 1835 | 7 |
| 7 | 1870 | 7 | 1801 | 7 | 1838 | 7 |
| 7 | 1878 | 7 | 1799 | 7 | 1800 | 7 |
| 7 | 1836 | 7 | 1837 | 7 | 1872 | 7 |
| 7 | 1875 | 7 | 1803 | 7 | 1839 | 7 |
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| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
| 7 | 1840 | 7 | 1841 | 7 | 1879 | 7 |
| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
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| 7 | 1896 | 7 | 1813 | 7 | 1814 | 7 |
| 7 | 1844 | 7 | 1845 | 7 | 1886 | 7 |
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| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
| 7 | 1430 | 7 | 1662 | 7 | 1703 | 7 |
| 7 | 1736 | 7 | 1659 | 7 | 1656 | 7 |
| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
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| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
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| 7 | 1836 | 7 | 1837 | 7 | 1872 | 7 |
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| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
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| 7 | 1727 | 7 | 1485 | 7 | 1480 | 7 |
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| 7 | 1741 | 7 | 1536 | 7 | 1544 | 7 |
| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
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| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
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| 7 | 1577 | 7 | 1565 | 7 | 1561 | 7 |
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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
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| 7 | 1736 | 7 | 1659 | 7 | 1656 | 7 |
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| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
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| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
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| 7 | 1747 | 7 | 1562 | 7 | 1570 | 7 |
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| 7 | 1885 | 7 | 1806 | 7 | 1807 | 7 |
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| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
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| 7 | 1889 | 7 | 1820 | 7 | 1848 | 7 |
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| 7 | 1696 | 7 | 1698 | 7 | 1723 | 7 |
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| 7 | 1515 | 7 | 1490 | 7 | 1484 | 7 |
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| 7 | 1352 | 7 | 1353 | 7 | 1425 | 7 |
| 7 | 1429 | 7 | 1650 | 7 | 1697 | 7 |
| 7 | 1727 | 7 | 1485 | 7 | 1480 | 7 |
| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
| 7 | 1430 | 7 | 1662 | 7 | 1703 | 7 |
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| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
| 7 | 1733 | 7 | 1501 | 7 | 1509 | 7 |
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| 7 | 1507 | 7 | 1508 | 7 | 1518 | 7 |
| 7 | 1522 | 7 | 1385 | 7 | 1355 | 7 |
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| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
| 7 | 1437 | 7 | 1669 | 7 | 1707 | 7 |
| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
| 7 | 1704 | 7 | 1705 | 7 | 1737 | 7 |
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| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
| 7 | 1549 | 7 | 1392 | 7 | 1359 | 7 |
| 7 | 1443 | 7 | 1396 | 7 | 1391 | 7 |
| 7 | 1358 | 7 | 1360 | 7 | 1438 | 7 |
| 7 | 1442 | 7 | 1664 | 7 | 1706 | 7 |
| 7 | 1741 | 7 | 1536 | 7 | 1544 | 7 |
| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
| 7 | 1444 | 7 | 1676 | 7 | 1711 | 7 |
| 7 | 1750 | 7 | 1673 | 7 | 1670 | 7 |
| 7 | 1708 | 7 | 1709 | 7 | 1744 | 7 |
| 7 | 1747 | 7 | 1562 | 7 | 1570 | 7 |
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| 7 | 1832 | 7 | 1833 | 7 | 1865 | 7 |
| 7 | 1868 | 7 | 1796 | 7 | 1835 | 7 |
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| 7 | 1878 | 7 | 1799 | 7 | 1800 | 7 |
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| 7 | 1882 | 7 | 1810 | 7 | 1843 | 7 |
| 7 | 1884 | 7 | 1815 | 7 | 1846 | 7 |
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| 7 | 1844 | 7 | 1845 | 7 | 1886 | 7 |
| 7 | 1889 | 7 | 1820 | 7 | 1848 | 7 |
| 7 | 1895 | 7 | 1821 | 7 | 1850 | 7 |
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| 7 | 1847 | 7 | 1849 | 7 | 1890 | 7 |
| 7 | 1894 | 7 | 1655 | 7 | 1699 | 7 |
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| 7 | 1696 | 7 | 1698 | 7 | 1723 | 7 |
| 7 | 1726 | 7 | 1486 | 7 | 1483 | 7 |
| 7 | 1515 | 7 | 1490 | 7 | 1484 | 7 |
| 7 | 1481 | 7 | 1482 | 7 | 1511 | 7 |
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| 7 | 1352 | 7 | 1353 | 7 | 1425 | 7 |
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| 7 | 1517 | 7 | 1379 | 7 | 1350 | 7 |
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| 7 | 1700 | 7 | 1701 | 7 | 1730 | 7 |
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| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
| 7 | 1437 | 7 | 1669 | 7 | 1707 | 7 |
| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
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| 7 | 1740 | 7 | 1535 | 7 | 1543 | 7 |
| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
| 7 | 1549 | 7 | 1392 | 7 | 1359 | 7 |
| 7 | 1443 | 7 | 1396 | 7 | 1391 | 7 |
| 7 | 1358 | 7 | 1360 | 7 | 1438 | 7 |
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| 7 | 1551 | 7 | 1393 | 7 | 1361 | 7 |
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| 7 | 1577 | 7 | 1565 | 7 | 1561 | 7 |
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| 7 | 1522 | 7 | 1385 | 7 | 1355 | 7 |
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| 7 | 1354 | 7 | 1356 | 7 | 1431 | 7 |
| 7 | 1435 | 7 | 1657 | 7 | 1702 | 7 |
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| 7 | 1524 | 7 | 1386 | 7 | 1357 | 7 |
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| 7 | 1743 | 7 | 1666 | 7 | 1663 | 7 |
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| 7 | 1550 | 7 | 1538 | 7 | 1534 | 7 |
| 7 | 1541 | 7 | 1542 | 7 | 1545 | 7 |
| 7 | 1549 | 7 | 1392 | 7 | 1359 | 7 |
| 7 | 1443 | 7 | 1396 | 7 | 1391 | 7 |
| 7 | 1358 | 7 | 1360 | 7 | 1438 | 7 |
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| 7 | 1934 | 7 | 2338 | 7 | 2334 | 7 |
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| 7 | 1952 | 7 | 2336 | 7 | 2208 | 7 |
| 7 | 1953 | 7 | 2357 | 7 | 2353 | 7 |
| 7 | 2225 | 7 | 2101 | 7 | 2098 | 7 |
| 7 | 1971 | 7 | 2355 | 7 | 2227 | 7 |
| 7 | 1972 | 7 | 2376 | 7 | 2372 | 7 |
| 7 | 2244 | 7 | 2120 | 7 | 2117 | 7 |
| 7 | 1990 | 7 | 2374 | 7 | 2246 | 7 |
| 7 | 1991 | 7 | 2407 | 7 | 2400 | 7 |
| 7 | 2272 | 7 | 2151 | 7 | 2146 | 7 |
| 7 | 2020 | 7 | 2405 | 7 | 2277 | 7 |
| 7 | 2023 | 7 | 2409 | 7 | 2404 | 7 |
| 7 | 2276 | 7 | 2153 | 7 | 2148 | 7 |
| 7 | 2022 | 7 | 1857 | 7 | 1855 | 7 |
| 7 | 1864 | 7 | 1862 | 7 | 1863 | 7 |
| 7 | 1868 | 7 | 1870 | 7 | 1878 | 7 |
| 7 | 1877 | 7 | 1885 | 7 | 1882 | 7 |
| 7 | 1896 | 7 | 1889 | 7 | 1895 | 7 |
| 7 | 1894 | 7 | 1729 | 7 | 1726 | 7 |
| 7 | 1516 | 7 | 1428 | 7 | 1429 | 7 |
| 7 | 1517 | 7 | 1430 | 7 | 1736 | 7 |
| 7 | 1523 | 7 | 1522 | 7 | 1436 | 7 |
| 7 | 1734 | 7 | 1524 | 7 | 1437 | 7 |

| | | | | | | |
|----|------|---|------|---|------|---|
| 7 | 1740 | 7 | 1550 | 7 | 1549 | 7 |
| 7 | 1442 | 7 | 1741 | 7 | 1551 | 7 |
| 7 | 1750 | 7 | 1747 | 7 | 1577 | 7 |
| 7 | 1450 | 7 | 1449 | 7 | 1748 | 7 |
| 7 | 1451 | 7 | 1757 | 7 | 1754 | 7 |
| 7 | 1603 | 7 | 1457 | 7 | 1456 | 7 |
| 7 | 1605 | 7 | 1458 | 7 | 1767 | 7 |
| 7 | 1637 | 7 | 1636 | 7 | 1466 | 7 |
| 7 | 1765 | 7 | 1640 | 7 | 1468 | 7 |
| 7 | 1764 | 7 | 1641 | 7 | 1639 | 7 |
| 7 | 1469 | 7 | 1267 | 7 | 1268 | 7 |
| 7 | 990 | 7 | 988 | 7 | 899 | 7 |
| 7 | 1269 | 7 | 1265 | 7 | 989 | 7 |
| 7 | 1280 | 7 | 1279 | 7 | 1276 | 7 |
| 7 | 995 | 7 | 906 | 7 | 904 | 7 |
| 7 | 1277 | 7 | 996 | 7 | 905 | 7 |
| 7 | 1291 | 7 | 1288 | 7 | 1021 | 7 |
| 7 | 913 | 7 | 911 | 7 | 1293 | 7 |
| 7 | 1020 | 7 | 912 | 7 | 1304 | 7 |
| 7 | 1300 | 7 | 1050 | 7 | 1048 | 7 |
| 7 | 918 | 7 | 1305 | 7 | 1301 | 7 |
| 7 | 919 | 7 | 1316 | 7 | 1315 | 7 |
| 7 | 1079 | 7 | 1077 | 7 | 927 | 7 |
| 7 | 1317 | 7 | 1313 | 7 | 1078 | 7 |
| 7 | 1330 | 7 | 1329 | 7 | 1324 | 7 |
| 7 | 1114 | 7 | 938 | 7 | 931 | 7 |
| 7 | 1327 | 7 | 1117 | 7 | 937 | 7 |
| 7 | 1332 | 7 | 1326 | 7 | 1119 | 7 |
| 7 | 939 | 7 | 936 | 7 | 771 | 7 |
| 7 | 769 | 7 | 778 | 7 | 775 | 7 |
| 7 | 785 | 7 | 782 | 7 | 783 | 7 |
| 7 | 789 | 7 | 790 | 7 | 799 | 7 |
| 7 | 797 | 7 | 809 | 7 | 802 | 7 |
| 7 | 811 | 7 | 806 | 7 | 599 | 7 |
| 7 | 439 | 7 | 436 | 7 | 311 | 7 |
| 7 | 181 | 7 | 182 | 7 | 597 | 7 |
| 7 | 309 | 7 | 183 | 7 | 606 | 7 |
| 7 | 446 | 7 | 443 | 7 | 318 | 7 |
| 7 | 189 | 7 | 188 | 7 | 604 | 7 |
| 7 | 316 | 7 | 190 | 7 | 613 | 7 |
| 7 | 453 | 7 | 450 | 7 | 325 | 7 |
| 7 | 196 | 7 | 195 | 7 | 611 | 7 |
| 7 | 323 | 7 | 197 | 7 | 620 | 7 |
| 7 | 460 | 7 | 457 | 7 | 332 | 7 |
| 7 | 203 | 7 | 202 | 7 | 618 | 7 |
| 7 | 330 | 7 | 204 | 7 | 647 | 7 |
| 7 | 479 | 7 | 475 | 7 | 351 | 7 |
| 7 | 221 | 7 | 220 | 7 | 645 | 7 |
| 7 | 349 | 7 | 223 | 7 | 681 | 7 |
| 7 | 510 | 7 | 503 | 7 | 382 | 7 |
| 7 | 249 | 7 | 248 | 7 | 679 | 7 |
| 7 | 380 | 7 | 255 | 7 | 683 | 7 |
| 7 | 512 | 7 | 507 | 7 | 384 | 7 |
| 7 | 256 | 7 | 254 | 7 | 53 | 7 |
| 7 | 55 | 7 | 61 | 7 | 60 | 7 |
| 7 | 68 | 7 | 67 | 7 | 69 | 7 |
| 7 | 74 | 7 | 76 | 7 | 93 | 7 |
| 7 | 95 | 7 | 121 | 7 | 120 | 7 |
| 7 | 128 | 7 | 127 | 7 | | |
| 10 | 0 | 0 | 0 | 0 | 386 | |

BOTTOMNODES

| | | | | | | |
|---|------|---|------|---|------|---|
| 7 | 2413 | 7 | 2414 | 7 | 2410 | 7 |
| 7 | 2411 | 7 | 2447 | 7 | 2446 | 7 |
| 7 | 2449 | 7 | 2445 | 7 | 2480 | 7 |
| 7 | 2476 | 7 | 2482 | 7 | 2478 | 7 |
| 7 | 2512 | 7 | 2509 | 7 | 2515 | 7 |
| 7 | 2546 | 7 | 2545 | 7 | 2542 | 7 |
| 7 | 2544 | 7 | 2581 | 7 | 2580 | 7 |
| 7 | 2585 | 7 | 2578 | 7 | 2584 | 7 |
| 7 | 2577 | 7 | 2285 | 7 | 2282 | 7 |
| 7 | 2154 | 7 | 2032 | 7 | 2029 | 7 |
| 7 | 1902 | 7 | 2283 | 7 | 2155 | 7 |
| 7 | 1903 | 7 | 2304 | 7 | 2301 | 7 |
| 7 | 2173 | 7 | 2051 | 7 | 2048 | 7 |
| 7 | 1921 | 7 | 2303 | 7 | 2175 | 7 |
| 7 | 1923 | 7 | 2323 | 7 | 2320 | 7 |
| 7 | 2192 | 7 | 2070 | 7 | 2067 | 7 |
| 7 | 1940 | 7 | 2322 | 7 | 2194 | 7 |
| 7 | 1942 | 7 | 2342 | 7 | 2339 | 7 |
| 7 | 2211 | 7 | 2089 | 7 | 2086 | 7 |
| 7 | 1959 | 7 | 2341 | 7 | 2213 | 7 |
| 7 | 1961 | 7 | 2361 | 7 | 2358 | 7 |
| 7 | 2230 | 7 | 2108 | 7 | 2105 | 7 |
| 7 | 1978 | 7 | 2360 | 7 | 2232 | 7 |
| 7 | 1980 | 7 | 2382 | 7 | 2377 | 7 |
| 7 | 2249 | 7 | 2131 | 7 | 2126 | 7 |
| 7 | 2000 | 7 | 2380 | 7 | 2252 | 7 |
| 7 | 2003 | 7 | 2383 | 7 | 2379 | 7 |
| 7 | 2251 | 7 | 2133 | 7 | 2128 | 7 |
| 7 | 2002 | 7 | 1783 | 7 | 1777 | 7 |
| 7 | 1790 | 7 | 1784 | 7 | 1787 | 7 |
| 7 | 1791 | 7 | 1795 | 7 | 1804 | 7 |
| 7 | 1802 | 7 | 1811 | 7 | 1805 | 7 |
| 7 | 1822 | 7 | 1812 | 7 | 1817 | 7 |
| 7 | 1816 | 7 | 1654 | 7 | 1651 | 7 |
| 7 | 1488 | 7 | 1380 | 7 | 1381 | 7 |
| 7 | 1489 | 7 | 1382 | 7 | 1661 | 7 |
| 7 | 1504 | 7 | 1503 | 7 | 1388 | 7 |
| 7 | 1660 | 7 | 1506 | 7 | 1390 | 7 |
| 7 | 1665 | 7 | 1539 | 7 | 1537 | 7 |
| 7 | 1394 | 7 | 1667 | 7 | 1540 | 7 |
| 7 | 1675 | 7 | 1672 | 7 | 1566 | 7 |
| 7 | 1402 | 7 | 1401 | 7 | 1674 | 7 |
| 7 | 1404 | 7 | 1682 | 7 | 1679 | 7 |
| 7 | 1591 | 7 | 1409 | 7 | 1408 | 7 |
| 7 | 1594 | 7 | 1411 | 7 | 1692 | 7 |
| 7 | 1618 | 7 | 1616 | 7 | 1418 | 7 |
| 7 | 1690 | 7 | 1620 | 7 | 1420 | 7 |
| 7 | 1689 | 7 | 1622 | 7 | 1619 | 7 |
| 7 | 1421 | 7 | 1139 | 7 | 1140 | 7 |
| 7 | 957 | 7 | 954 | 7 | 825 | 7 |
| 7 | 1141 | 7 | 1137 | 7 | 955 | 7 |
| 7 | 1152 | 7 | 1151 | 7 | 1148 | 7 |
| 7 | 967 | 7 | 832 | 7 | 826 | 7 |
| 7 | 1150 | 7 | 969 | 7 | 829 | 7 |
| 7 | 1163 | 7 | 1160 | 7 | 1010 | 7 |
| 7 | 839 | 7 | 833 | 7 | 1166 | 7 |
| 7 | 1009 | 7 | 836 | 7 | 1176 | 7 |
| 7 | 1172 | 7 | 1039 | 7 | 1036 | 7 |
| 7 | 840 | 7 | 1178 | 7 | 1174 | 7 |

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|------------------|------|---|------|---|------|---|
| 7 | 844 | 7 | 1188 | 7 | 1187 | 7 |
| 7 | 1068 | 7 | 1065 | 7 | 853 | 7 |
| 7 | 1190 | 7 | 1186 | 7 | 1067 | 7 |
| 7 | 1202 | 7 | 1201 | 7 | 1196 | 7 |
| 7 | 1094 | 7 | 864 | 7 | 854 | 7 |
| 7 | 1199 | 7 | 1097 | 7 | 859 | 7 |
| 7 | 1204 | 7 | 1198 | 7 | 1100 | 7 |
| 7 | 865 | 7 | 858 | 7 | 696 | 7 |
| 7 | 692 | 7 | 703 | 7 | 698 | 7 |
| 7 | 710 | 7 | 705 | 7 | 708 | 7 |
| 7 | 712 | 7 | 715 | 7 | 724 | 7 |
| 7 | 722 | 7 | 734 | 7 | 726 | 7 |
| 7 | 736 | 7 | 729 | 7 | 516 | 7 |
| 7 | 388 | 7 | 385 | 7 | 260 | 7 |
| 7 | 132 | 7 | 129 | 7 | 514 | 7 |
| 7 | 258 | 7 | 130 | 7 | 520 | 7 |
| 7 | 392 | 7 | 389 | 7 | 264 | 7 |
| 7 | 135 | 7 | 133 | 7 | 519 | 7 |
| 7 | 263 | 7 | 136 | 7 | 548 | 7 |
| 7 | 404 | 7 | 401 | 7 | 276 | 7 |
| 7 | 147 | 7 | 145 | 7 | 547 | 7 |
| 7 | 275 | 7 | 148 | 7 | 576 | 7 |
| 7 | 424 | 7 | 421 | 7 | 296 | 7 |
| 7 | 167 | 7 | 165 | 7 | 575 | 7 |
| 7 | 295 | 7 | 168 | 7 | 624 | 7 |
| 7 | 464 | 7 | 461 | 7 | 336 | 7 |
| 7 | 207 | 7 | 205 | 7 | 623 | 7 |
| 7 | 335 | 7 | 208 | 7 | 653 | 7 |
| 7 | 485 | 7 | 480 | 7 | 357 | 7 |
| 7 | 226 | 7 | 224 | 7 | 651 | 7 |
| 7 | 355 | 7 | 228 | 7 | 654 | 7 |
| 7 | 486 | 7 | 482 | 7 | 358 | 7 |
| 7 | 230 | 7 | 227 | 7 | 2 | 7 |
| 7 | 1 | 7 | 6 | 7 | 5 | 7 |
| 7 | 18 | 7 | 17 | 7 | 20 | 7 |
| 7 | 37 | 7 | 40 | 7 | 78 | 7 |
| 7 | 80 | 7 | 97 | 7 | 96 | 7 |
| 7 | 101 | 7 | 100 | 7 | | |
| 11 | 0 | 0 | 0 | 0 | 386 | |
| BASENODES | | | | | | |
| 7 | 2413 | 7 | 2414 | 7 | 2410 | 7 |
| 7 | 2411 | 7 | 2447 | 7 | 2446 | 7 |
| 7 | 2449 | 7 | 2445 | 7 | 2480 | 7 |
| 7 | 2476 | 7 | 2482 | 7 | 2478 | 7 |
| 7 | 2512 | 7 | 2509 | 7 | 2515 | 7 |
| 7 | 2546 | 7 | 2545 | 7 | 2542 | 7 |
| 7 | 2544 | 7 | 2581 | 7 | 2580 | 7 |
| 7 | 2585 | 7 | 2578 | 7 | 2584 | 7 |
| 7 | 2577 | 7 | 2285 | 7 | 2282 | 7 |
| 7 | 2154 | 7 | 2032 | 7 | 2029 | 7 |
| 7 | 1902 | 7 | 2283 | 7 | 2155 | 7 |
| 7 | 1903 | 7 | 2304 | 7 | 2301 | 7 |
| 7 | 2173 | 7 | 2051 | 7 | 2048 | 7 |
| 7 | 1921 | 7 | 2303 | 7 | 2175 | 7 |
| 7 | 1923 | 7 | 2323 | 7 | 2320 | 7 |
| 7 | 2192 | 7 | 2070 | 7 | 2067 | 7 |
| 7 | 1940 | 7 | 2322 | 7 | 2194 | 7 |
| 7 | 1942 | 7 | 2342 | 7 | 2339 | 7 |
| 7 | 2211 | 7 | 2089 | 7 | 2086 | 7 |
| 7 | 1959 | 7 | 2341 | 7 | 2213 | 7 |

| | | | | | | |
|---|------|---|------|---|------|---|
| 7 | 1961 | 7 | 2361 | 7 | 2358 | 7 |
| 7 | 2230 | 7 | 2108 | 7 | 2105 | 7 |
| 7 | 1978 | 7 | 2360 | 7 | 2232 | 7 |
| 7 | 1980 | 7 | 2382 | 7 | 2377 | 7 |
| 7 | 2249 | 7 | 2131 | 7 | 2126 | 7 |
| 7 | 2000 | 7 | 2380 | 7 | 2252 | 7 |
| 7 | 2003 | 7 | 2383 | 7 | 2379 | 7 |
| 7 | 2251 | 7 | 2133 | 7 | 2128 | 7 |
| 7 | 2002 | 7 | 1783 | 7 | 1777 | 7 |
| 7 | 1790 | 7 | 1784 | 7 | 1787 | 7 |
| 7 | 1791 | 7 | 1795 | 7 | 1804 | 7 |
| 7 | 1802 | 7 | 1811 | 7 | 1805 | 7 |
| 7 | 1822 | 7 | 1812 | 7 | 1817 | 7 |
| 7 | 1816 | 7 | 1654 | 7 | 1651 | 7 |
| 7 | 1488 | 7 | 1380 | 7 | 1381 | 7 |
| 7 | 1489 | 7 | 1382 | 7 | 1661 | 7 |
| 7 | 1504 | 7 | 1503 | 7 | 1388 | 7 |
| 7 | 1660 | 7 | 1506 | 7 | 1390 | 7 |
| 7 | 1665 | 7 | 1539 | 7 | 1537 | 7 |
| 7 | 1394 | 7 | 1667 | 7 | 1540 | 7 |
| 7 | 1675 | 7 | 1672 | 7 | 1566 | 7 |
| 7 | 1402 | 7 | 1401 | 7 | 1674 | 7 |
| 7 | 1404 | 7 | 1682 | 7 | 1679 | 7 |
| 7 | 1591 | 7 | 1409 | 7 | 1408 | 7 |
| 7 | 1594 | 7 | 1411 | 7 | 1692 | 7 |
| 7 | 1618 | 7 | 1616 | 7 | 1418 | 7 |
| 7 | 1690 | 7 | 1620 | 7 | 1420 | 7 |
| 7 | 1689 | 7 | 1622 | 7 | 1619 | 7 |
| 7 | 1421 | 7 | 1139 | 7 | 1140 | 7 |
| 7 | 957 | 7 | 954 | 7 | 825 | 7 |
| 7 | 1141 | 7 | 1137 | 7 | 955 | 7 |
| 7 | 1152 | 7 | 1151 | 7 | 1148 | 7 |
| 7 | 967 | 7 | 832 | 7 | 826 | 7 |
| 7 | 1150 | 7 | 969 | 7 | 829 | 7 |
| 7 | 1163 | 7 | 1160 | 7 | 1010 | 7 |
| 7 | 839 | 7 | 833 | 7 | 1166 | 7 |
| 7 | 1009 | 7 | 836 | 7 | 1176 | 7 |
| 7 | 1172 | 7 | 1039 | 7 | 1036 | 7 |
| 7 | 840 | 7 | 1178 | 7 | 1174 | 7 |
| 7 | 844 | 7 | 1188 | 7 | 1187 | 7 |
| 7 | 1068 | 7 | 1065 | 7 | 853 | 7 |
| 7 | 1190 | 7 | 1186 | 7 | 1067 | 7 |
| 7 | 1202 | 7 | 1201 | 7 | 1196 | 7 |
| 7 | 1094 | 7 | 864 | 7 | 854 | 7 |
| 7 | 1199 | 7 | 1097 | 7 | 859 | 7 |
| 7 | 1204 | 7 | 1198 | 7 | 1100 | 7 |
| 7 | 865 | 7 | 858 | 7 | 696 | 7 |
| 7 | 692 | 7 | 703 | 7 | 698 | 7 |
| 7 | 710 | 7 | 705 | 7 | 708 | 7 |
| 7 | 712 | 7 | 715 | 7 | 724 | 7 |
| 7 | 722 | 7 | 734 | 7 | 726 | 7 |
| 7 | 736 | 7 | 729 | 7 | 516 | 7 |
| 7 | 388 | 7 | 385 | 7 | 260 | 7 |
| 7 | 132 | 7 | 129 | 7 | 514 | 7 |
| 7 | 258 | 7 | 130 | 7 | 520 | 7 |
| 7 | 392 | 7 | 389 | 7 | 264 | 7 |
| 7 | 135 | 7 | 133 | 7 | 519 | 7 |
| 7 | 263 | 7 | 136 | 7 | 548 | 7 |
| 7 | 404 | 7 | 401 | 7 | 276 | 7 |
| 7 | 147 | 7 | 145 | 7 | 547 | 7 |

| | | | | | | |
|---------------------|-----|---|-----|---|-----|---|
| 7 | 275 | 7 | 148 | 7 | 576 | 7 |
| 7 | 424 | 7 | 421 | 7 | 296 | 7 |
| 7 | 167 | 7 | 165 | 7 | 575 | 7 |
| 7 | 295 | 7 | 168 | 7 | 624 | 7 |
| 7 | 464 | 7 | 461 | 7 | 336 | 7 |
| 7 | 207 | 7 | 205 | 7 | 623 | 7 |
| 7 | 335 | 7 | 208 | 7 | 653 | 7 |
| 7 | 485 | 7 | 480 | 7 | 357 | 7 |
| 7 | 226 | 7 | 224 | 7 | 651 | 7 |
| 7 | 355 | 7 | 228 | 7 | 654 | 7 |
| 7 | 486 | 7 | 482 | 7 | 358 | 7 |
| 7 | 230 | 7 | 227 | 7 | 2 | 7 |
| 7 | 1 | 7 | 6 | 7 | 5 | 7 |
| 7 | 18 | 7 | 17 | 7 | 20 | 7 |
| 7 | 37 | 7 | 40 | 7 | 78 | 7 |
| 7 | 80 | 7 | 97 | 7 | 96 | 7 |
| 7 | 101 | 7 | 100 | 7 | | |
| 12 | 0 | 0 | 0 | 0 | 108 | |
| BASEELEMENTS | | | | | | |
| 8 | 387 | 8 | 391 | 8 | 395 | 8 |
| 8 | 403 | 8 | 407 | 8 | 411 | 8 |
| 8 | 419 | 8 | 423 | 8 | 427 | 8 |
| 8 | 435 | 8 | 439 | 8 | 443 | 8 |
| 8 | 451 | 8 | 455 | 8 | 459 | 8 |
| 8 | 467 | 8 | 471 | 8 | 475 | 8 |
| 8 | 483 | 8 | 487 | 8 | 491 | 8 |
| 8 | 499 | 8 | 503 | 8 | 507 | 8 |
| 8 | 515 | 8 | 519 | 8 | 523 | 8 |
| 8 | 531 | 8 | 535 | 8 | 539 | 8 |
| 8 | 547 | 8 | 551 | 8 | 555 | 8 |
| 8 | 563 | 8 | 567 | 8 | 571 | 8 |
| 8 | 579 | 8 | 583 | 8 | 587 | 8 |
| 8 | 595 | 8 | 599 | 8 | 603 | 8 |
| 8 | 611 | 8 | 615 | 8 | 619 | 8 |
| 8 | 627 | 8 | 631 | 8 | 635 | 8 |
| 8 | 643 | 8 | 647 | 8 | 651 | 8 |
| 8 | 659 | 8 | 663 | 8 | 667 | 8 |
| 8 | 675 | 8 | 679 | 8 | 683 | 8 |
| 8 | 691 | 8 | 695 | 8 | 699 | 8 |
| 8 | 707 | 8 | 711 | 8 | 715 | 8 |
| 8 | 723 | 8 | 727 | 8 | 731 | 8 |
| 8 | 739 | 8 | 743 | 8 | 747 | 8 |
| 8 | 755 | 8 | 759 | 8 | 763 | 8 |
| 8 | 771 | 8 | 775 | 8 | 779 | 8 |
| 8 | 787 | 8 | 791 | 8 | 795 | 8 |
| 8 | 803 | 8 | 807 | 8 | 811 | 8 |
| 13 | 0 | 0 | 0 | 0 | 140 | |
| DOWELSPRINGS | | | | | | |
| 8 | 926 | 8 | 927 | 8 | 928 | 8 |
| 8 | 930 | 8 | 931 | 8 | 932 | 8 |
| 8 | 934 | 8 | 935 | 8 | 936 | 8 |
| 8 | 938 | 8 | 939 | 8 | 940 | 8 |
| 8 | 942 | 8 | 943 | 8 | 944 | 8 |
| 8 | 946 | 8 | 947 | 8 | 948 | 8 |
| 8 | 950 | 8 | 951 | 8 | 952 | 8 |
| 8 | 954 | 8 | 955 | 8 | 956 | 8 |
| 8 | 958 | 8 | 959 | 8 | 960 | 8 |
| 8 | 962 | 8 | 963 | 8 | 964 | 8 |
| 8 | 966 | 8 | 967 | 8 | 968 | 8 |
| 8 | 970 | 8 | 971 | 8 | 972 | 8 |

| | | | | | | |
|--------------|------|---|------|---|------|---|
| 8 | 974 | 8 | 975 | 8 | 976 | 8 |
| 8 | 978 | 8 | 979 | 8 | 980 | 8 |
| 8 | 982 | 8 | 983 | 8 | 984 | 8 |
| 8 | 985 | 8 | 986 | 8 | 994 | 8 |
| 8 | 988 | 8 | 989 | 8 | 990 | 8 |
| 8 | 992 | 8 | 993 | 8 | 995 | 8 |
| 8 | 997 | 8 | 998 | 8 | 999 | 8 |
| 8 | 1001 | 8 | 1003 | 8 | 1002 | 8 |
| 8 | 1005 | 8 | 1006 | 8 | 1007 | 8 |
| 8 | 1009 | 8 | 1010 | 8 | 1011 | 8 |
| 8 | 1013 | 8 | 1014 | 8 | 1015 | 8 |
| 8 | 1017 | 8 | 1018 | 8 | 1019 | 8 |
| 8 | 1021 | 8 | 1022 | 8 | 1023 | 8 |
| 8 | 1025 | 8 | 1026 | 8 | 1027 | 8 |
| 8 | 1029 | 8 | 1030 | 8 | 1031 | 8 |
| 8 | 1033 | 8 | 1034 | 8 | 1035 | 8 |
| 8 | 1038 | 8 | 1039 | 8 | 1040 | 8 |
| 8 | 1042 | 8 | 1043 | 8 | 1044 | 8 |
| 8 | 1046 | 8 | 1047 | 8 | 1048 | 8 |
| 8 | 1050 | 8 | 1051 | 8 | 1064 | 8 |
| 8 | 1053 | 8 | 1054 | 8 | 1055 | 8 |
| 8 | 1065 | 8 | 1057 | 8 | 1058 | 8 |
| 8 | 1060 | 8 | 1061 | 8 | 1062 | 8 |
| 14 | 0 | 0 | 0 | 0 | 22 | |
| JOINTSPRINGS | | | | | | |
| 8 | 1044 | 8 | 1045 | 8 | 1046 | 8 |
| 8 | 1048 | 8 | 1049 | 8 | 1050 | 8 |
| 8 | 1064 | 8 | 1052 | 8 | 1053 | 8 |
| 8 | 1055 | 8 | 1056 | 8 | 1065 | 8 |
| 8 | 1058 | 8 | 1059 | 8 | 1060 | 8 |
| 8 | 1062 | 8 | 1063 | | | |
| 15 | 0 | 0 | 0 | 0 | 43 | |
| DOWELS | | | | | | |
| 8 | 821 | 8 | 822 | 8 | 823 | 8 |
| 8 | 851 | 8 | 863 | 8 | 875 | 8 |
| 8 | 840 | 8 | 852 | 8 | 864 | 8 |
| 8 | 888 | 8 | 841 | 8 | 853 | 8 |
| 8 | 877 | 8 | 889 | 8 | 842 | 8 |
| 8 | 866 | 8 | 878 | 8 | 890 | 8 |
| 8 | 855 | 8 | 867 | 8 | 879 | 8 |
| 8 | 897 | 8 | 903 | 8 | 909 | 8 |
| 8 | 921 | 8 | 898 | 8 | 904 | 8 |
| 8 | 916 | 8 | 922 | 8 | 899 | 8 |
| 8 | 911 | 8 | 917 | 8 | 923 | |

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SAMPLE OUTPUT FILE

The program developed in this study yields three types of output. The first type of output gives an echo of the input data, and some information regarding the progress of the solution procedure.

The second type of output is produced by the macro commands DISM, DISX, and DISY. This consists of the Maximum compressive and tensile stresses in the various materials, the maximum displacement output of macro DISM, and the displacement output along prescribed X and Y coordinates from macros DISX and DISY. This is the file used for producing most of the results in this study.

The third type of output is produced by the macro command CAED. This results in output which can be post-processed by the post-processor of CAEDS package. The stress and strain contours and the deflection profiles given in the results is produced from this output.

The output file given here is of the second type. Since, the size of these files is rather large, results for a limited number of increments only is given.

 ** SAMPLE OUTPUT FILE FOR ANALYSIS OF PAVEMENTS WITH PATCH **

 FEAP * PAVEMENT - WHEEL LOAD, PATCH, CONCRETE-CONCRETE, SHRINKAGE 1

INCREMENT = 1 ITERATION = 1 TOTAL LOAD PROP1 = 1.0000

Note: MATL ELMT PNT

| | | | X-COOR | Y-COOR | Z-COOR | MAX POS/NEG/RATIO | STRESS |
|----------|----|------|--------|---------|---------|-------------------|---------------------------|
| Patch | 1 | 612 | 18 | 22.9123 | 1.0000 | 0.3125 | 0.79700E+01 -Tension |
| Concrete | | 671 | 22 | 22.5250 | 11.7746 | 0.0235 | -0.27558E+01 -Compression |
| | | 612 | 18 | 22.9123 | 1.0000 | 0.3125 | 0.15038E+00 -Stress |
| | 2 | 330 | 1 | 36.0250 | 6.0000 | 0.0000 | 0.43478E+00 |
| | | 188 | 1 | 17.5000 | 12.0000 | 0.0000 | 0.28186E-01 |
| Existing | 3 | 530 | 23 | 16.5000 | 11.7746 | 0.8099 | 0.65923E+01 -Tension |
| Concrete | | 697 | 3 | 23.1377 | 10.2254 | 0.5208 | -0.83471E+01 -Compression |
| | | 530 | 23 | 16.5000 | 11.7746 | 0.8099 | 0.11986E+00 -Stress |
| | 5 | 984 | 1 | 19.5000 | 6.0000 | 0.4167 | 0.33106E-04 |
| | | 945 | 1 | 23.0250 | 10.0000 | 0.4167 | -0.21690E-04 |
| | 9 | 1044 | 1 | 20.0000 | 11.0000 | 0.4167 | 0.48618E-05 |
| | | 1053 | 1 | 20.0000 | 6.0000 | 0.4167 | -0.19994E-04 |
| | 10 | 875 | 1 | 19.2500 | 4.0000 | 0.4167 | 0.17352E-09 |
| | | 863 | 1 | 19.2500 | 6.0000 | 0.4167 | -0.65580E-05 |
| | 13 | 833 | 1 | 16.2500 | 4.0000 | 0.4167 | 0.70226E-10 |
| | | 844 | 1 | 22.2750 | 10.0000 | 0.4167 | -0.76463E-06 |

5 MAXIMUM DISPLACEMENTS BETWEEN SLAB CENTER AND JOINT FOR D.O.F = 3

| NODE | X-COOR | Y-COOR | Z-COOR | MAX.DSP | |
|------|---------|--------|--------|-------------|----------------------------|
| 1750 | 17.5000 | 6.0000 | 0.8333 | -0.1888E-03 | LOADED SLAB ***** |
| 1450 | 19.5000 | 6.0000 | 0.8333 | -0.1886E-03 | |
| 1576 | 19.0000 | 6.0000 | 0.8333 | -0.1885E-03 | |
| 1577 | 18.5000 | 6.0000 | 0.8333 | -0.1884E-03 | |
| 1551 | 19.0000 | 5.0000 | 0.8333 | -0.1884E-03 | |
| 920 | 22.5250 | 6.0000 | 0.8333 | -0.1888E-03 | SLAB WITHOUT LOAD ***** |
| 1303 | 20.5250 | 6.0000 | 0.8333 | -0.1886E-03 | |
| 1300 | 21.0250 | 6.0000 | 0.8333 | -0.1885E-03 | |
| 1050 | 21.5250 | 6.0000 | 0.8333 | -0.1884E-03 | |
| 1289 | 21.0250 | 5.0000 | 0.8333 | -0.1884E-03 | |

DISPLACEMENTS AT TOP SURFACE ALONG Y COORDINATE OF 1.0000

| X-COOR | Y-COOR | Z-COOR | X-DSP | Y-DSP | Z-DSP |
|---------|--------|--------|-------------|-------------|-------------|
| 40.0250 | 1.0000 | 0.8333 | -0.6548E-04 | 0.2742E-06 | -0.1622E-03 |
| 36.0250 | 1.0000 | 0.8333 | -0.6205E-04 | 0.5895E-07 | -0.1768E-03 |
| 33.0250 | 1.0000 | 0.8333 | -0.6265E-04 | -0.6072E-06 | -0.1751E-03 |
| 30.0250 | 1.0000 | 0.8333 | -0.6492E-04 | -0.1280E-05 | -0.1745E-03 |
| 27.0250 | 1.0000 | 0.8333 | -0.7036E-04 | 0.1477E-05 | -0.1755E-03 |
| 24.0250 | 1.0000 | 0.8333 | -0.7722E-04 | 0.2572E-04 | -0.1754E-03 |
| 23.0250 | 1.0000 | 0.8333 | -0.8105E-04 | 0.4756E-04 | -0.1787E-03 |
| 22.0250 | 1.0000 | 0.8333 | -0.5958E-04 | 0.7156E-04 | -0.1834E-03 |
| 21.0250 | 1.0000 | 0.8333 | -0.3982E-04 | 0.8879E-04 | -0.1836E-03 |
| 20.0250 | 1.0000 | 0.8333 | -0.1916E-04 | 0.1034E-03 | -0.1838E-03 |
| 20.0000 | 1.0000 | 0.8333 | 0.1916E-04 | 0.1034E-03 | -0.1838E-03 |
| 19.0000 | 1.0000 | 0.8333 | 0.3982E-04 | 0.8879E-04 | -0.1836E-03 |
| 18.0000 | 1.0000 | 0.8333 | 0.5958E-04 | 0.7156E-04 | -0.1834E-03 |

| | | | | | |
|---------|--------|--------|------------|-------------|-------------|
| 17.0000 | 1.0000 | 0.8333 | 0.8105E-04 | 0.4756E-04 | -0.1787E-03 |
| 16.0000 | 1.0000 | 0.8333 | 0.7722E-04 | 0.2572E-04 | -0.1754E-03 |
| 13.0000 | 1.0000 | 0.8333 | 0.7036E-04 | 0.1477E-05 | -0.1755E-03 |
| 10.0000 | 1.0000 | 0.8333 | 0.6492E-04 | -0.1280E-05 | -0.1745E-03 |
| 7.0000 | 1.0000 | 0.8333 | 0.6265E-04 | -0.6072E-06 | -0.1751E-03 |
| 4.0000 | 1.0000 | 0.8333 | 0.6205E-04 | 0.5894E-07 | -0.1768E-03 |
| 0.0000 | 1.0000 | 0.8333 | 0.6548E-04 | 0.2742E-06 | -0.1622E-03 |

DISPLACEMENTS AT TOP SURFACE ALONG Y COORDINATE OF 7.0000

| X-COOR | Y-COOR | Z-COOR | X-DSP | Y-DSP | Z-DSP |
|---------|--------|--------|-------------|-------------|-------------|
| 40.0250 | 7.0000 | 0.8333 | -0.6562E-04 | -0.8321E-08 | -0.1649E-03 |
| 36.0250 | 7.0000 | 0.8333 | -0.6195E-04 | 0.1055E-06 | -0.1802E-03 |
| 33.0250 | 7.0000 | 0.8333 | -0.6125E-04 | 0.3776E-06 | -0.1790E-03 |
| 30.0250 | 7.0000 | 0.8333 | -0.5939E-04 | 0.6575E-06 | -0.1787E-03 |
| 27.0250 | 7.0000 | 0.8333 | -0.5523E-04 | -0.3897E-06 | -0.1795E-03 |
| 24.0250 | 7.0000 | 0.8333 | -0.5109E-04 | -0.6307E-05 | -0.1792E-03 |
| 23.0250 | 7.0000 | 0.8333 | -0.5421E-04 | -0.9520E-05 | -0.1831E-03 |
| 22.0250 | 7.0000 | 0.8333 | -0.3002E-04 | -0.1314E-04 | -0.1880E-03 |
| 21.0250 | 7.0000 | 0.8333 | -0.9718E-05 | -0.1639E-04 | -0.1884E-03 |
| 20.0250 | 7.0000 | 0.8333 | 0.1033E-04 | -0.1869E-04 | -0.1882E-03 |
| 20.0000 | 7.0000 | 0.8333 | -0.1033E-04 | -0.1869E-04 | -0.1882E-03 |
| 19.0000 | 7.0000 | 0.8333 | 0.9718E-05 | -0.1639E-04 | -0.1884E-03 |
| 18.0000 | 7.0000 | 0.8333 | 0.3002E-04 | -0.1314E-04 | -0.1880E-03 |
| 17.0000 | 7.0000 | 0.8333 | 0.5421E-04 | -0.9520E-05 | -0.1831E-03 |
| 16.0000 | 7.0000 | 0.8333 | 0.5109E-04 | -0.6307E-05 | -0.1792E-03 |
| 13.0000 | 7.0000 | 0.8333 | 0.5523E-04 | -0.3896E-06 | -0.1795E-03 |
| 10.0000 | 7.0000 | 0.8333 | 0.5939E-04 | 0.6575E-06 | -0.1787E-03 |
| 7.0000 | 7.0000 | 0.8333 | 0.6125E-04 | 0.3776E-06 | -0.1790E-03 |
| 4.0000 | 7.0000 | 0.8333 | 0.6195E-04 | 0.1055E-06 | -0.1802E-03 |
| 0.0000 | 7.0000 | 0.8333 | 0.6562E-04 | -0.8337E-08 | -0.1649E-03 |

INCREMENT = 6 ITERATION = 3 TOTAL LOAD PROP1 = 15.000

| MATL | ELMT | PNT | X-COOR | Y-COOR | Z-COOR | MAX. POS./NEG./RATIO | STRESS |
|------|------|-----|---------|---------|--------|----------------------|--------|
| 1 | 531 | 1 | 17.1127 | 0.2254 | 0.0235 | 0.34465E+02 | |
| | 534 | 8 | 17.1127 | 1.0000 | 0.8099 | -0.41652E+02 | |
| | 531 | 1 | 17.1127 | 0.2254 | 0.0235 | 0.65029E+00 | |
| 2 | 53 | 1 | 16.0000 | 2.0000 | 0.0000 | 0.11347E+01 | |
| | 285 | 1 | 23.5250 | 12.0000 | 0.0000 | 0.27292E-01 | |
| 3 | 507 | 10 | 16.8873 | 0.2254 | 0.0235 | 0.39550E+02 | |
| | 510 | 17 | 16.8873 | 1.0000 | 0.8099 | -0.45738E+02 | |
| | 507 | 10 | 16.8873 | 0.2254 | 0.0235 | 0.71910E+00 | |
| 5 | 1022 | 1 | 20.5250 | 2.0000 | 0.4167 | 0.23825E-01 | |
| | 1021 | 1 | 19.5000 | 2.0000 | 0.4167 | -0.19088E-01 | |
| 9 | 1062 | 1 | 20.0000 | 1.0000 | 0.4167 | 0.12466E+01 | |
| | 1063 | 1 | 20.0250 | 1.0000 | 0.4167 | -0.12474E+01 | |
| 10 | 921 | 1 | 19.5000 | 1.0000 | 0.4167 | 0.10648E-05 | |
| | 921 | 1 | 19.5000 | 1.0000 | 0.4167 | -0.16154E-01 | |
| 13 | 873 | 1 | 17.2500 | 4.0000 | 0.4167 | 0.42315E-08 | |
| | 835 | 1 | 16.5000 | 1.0000 | 0.4167 | -0.20193E-02 | |

5 MAXIMUM DISPLACEMENTS BETWEEN SLAB CENTER AND JOINT FOR D.O.F = 3

| NODE | X-COOR | Y-COOR | Z-COOR | MAX.DSP |
|------|---------|--------|--------|-------------|
| 1855 | 17.0000 | 0.0000 | 0.8333 | -0.1123E-02 |

| | | | | |
|------|---------|--------|--------|-------------|
| 1729 | 17.5000 | 0.0000 | 0.8333 | -0.1114E-02 |
| 1857 | 16.5000 | 0.0000 | 0.8333 | -0.1088E-02 |
| 1726 | 18.0000 | 0.0000 | 0.8333 | -0.1084E-02 |
| 1914 | 16.0000 | 0.0000 | 0.8333 | -0.1048E-02 |
| 1267 | 20.0250 | 0.0000 | 0.8333 | -0.6110E-03 |
| 1269 | 20.0250 | 1.0000 | 0.8333 | -0.6017E-03 |
| 1280 | 20.0250 | 2.0000 | 0.8333 | -0.5750E-03 |
| 1268 | 20.5250 | 0.0000 | 0.8333 | -0.5540E-03 |
| 1281 | 20.0250 | 3.0000 | 0.8333 | -0.5357E-03 |

DISPLACEMENTS AT TOP SURFACE ALONG Y COORDINATE OF 1.0000

| X-COOR | Y-COOR | Z-COOR | X-DSP | Y-DSP | Z-DSP |
|---------|--------|--------|-------------|-------------|-------------|
| 40.0250 | 1.0000 | 0.8333 | -0.9917E-05 | 0.9518E-05 | -0.1649E-03 |
| 36.0250 | 1.0000 | 0.8333 | -0.6123E-05 | 0.9011E-05 | -0.1743E-03 |
| 33.0250 | 1.0000 | 0.8333 | -0.6180E-05 | 0.8228E-05 | -0.1653E-03 |
| 30.0250 | 1.0000 | 0.8333 | -0.9110E-05 | 0.7504E-05 | -0.1570E-03 |
| 27.0250 | 1.0000 | 0.8333 | -0.1998E-04 | 0.9804E-05 | -0.1704E-03 |
| 24.0250 | 1.0000 | 0.8333 | -0.4162E-04 | 0.3180E-04 | -0.2541E-03 |
| 23.0250 | 1.0000 | 0.8333 | -0.5270E-04 | 0.5219E-04 | -0.3131E-03 |
| 22.0250 | 1.0000 | 0.8333 | -0.3999E-04 | 0.7417E-04 | -0.3929E-03 |
| 21.0250 | 1.0000 | 0.8333 | -0.2799E-04 | 0.8928E-04 | -0.4891E-03 |
| 20.0250 | 1.0000 | 0.8333 | -0.1148E-04 | 0.1029E-03 | -0.6017E-03 |
| 20.0000 | 1.0000 | 0.8333 | 0.1480E-04 | 0.6693E-04 | -0.7017E-03 |
| 19.0000 | 1.0000 | 0.8333 | 0.4117E-04 | 0.4932E-04 | -0.8437E-03 |
| 18.0000 | 1.0000 | 0.8333 | 0.7781E-04 | 0.2695E-04 | -0.9603E-03 |
| 17.0000 | 1.0000 | 0.8333 | 0.1428E-03 | 0.1551E-05 | -0.1027E-02 |
| 16.0000 | 1.0000 | 0.8333 | 0.1721E-03 | -0.1468E-04 | -0.9352E-03 |
| 13.0000 | 1.0000 | 0.8333 | 0.1768E-03 | -0.1254E-04 | -0.5695E-03 |
| 10.0000 | 1.0000 | 0.8333 | 0.1450E-03 | -0.3885E-06 | -0.2880E-03 |
| 7.0000 | 1.0000 | 0.8333 | 0.1239E-03 | 0.5348E-05 | -0.1755E-03 |
| 4.0000 | 1.0000 | 0.8333 | 0.1161E-03 | 0.7269E-05 | -0.1561E-03 |
| 0.0000 | 1.0000 | 0.8333 | 0.1180E-03 | 0.7721E-05 | -0.1521E-03 |

DISPLACEMENTS AT TOP SURFACE ALONG Y COORDINATE OF 7.0000

| X-COOR | Y-COOR | Z-COOR | X-DSP | Y-DSP | Z-DSP |
|---------|--------|--------|-------------|-------------|-------------|
| 40.0250 | 7.0000 | 0.8333 | -0.1066E-04 | 0.9216E-05 | -0.1680E-03 |
| 36.0250 | 7.0000 | 0.8333 | -0.6722E-05 | 0.9025E-05 | -0.1792E-03 |
| 33.0250 | 7.0000 | 0.8333 | -0.5546E-05 | 0.9061E-05 | -0.1723E-03 |
| 30.0250 | 7.0000 | 0.8333 | -0.3910E-05 | 0.8951E-05 | -0.1646E-03 |
| 27.0250 | 7.0000 | 0.8333 | -0.2975E-05 | 0.6834E-05 | -0.1693E-03 |
| 24.0250 | 7.0000 | 0.8333 | -0.7635E-05 | -0.2018E-05 | -0.2155E-03 |
| 23.0250 | 7.0000 | 0.8333 | -0.1491E-04 | -0.6828E-05 | -0.2512E-03 |
| 22.0250 | 7.0000 | 0.8333 | 0.4318E-05 | -0.1254E-04 | -0.2991E-03 |
| 21.0250 | 7.0000 | 0.8333 | 0.2044E-04 | -0.1810E-04 | -0.3539E-03 |
| 20.0250 | 7.0000 | 0.8333 | 0.3845E-04 | -0.2188E-04 | -0.4165E-03 |
| 20.0000 | 7.0000 | 0.8333 | 0.1139E-04 | -0.2364E-04 | -0.4395E-03 |
| 19.0000 | 7.0000 | 0.8333 | 0.3301E-04 | -0.2293E-04 | -0.5204E-03 |
| 18.0000 | 7.0000 | 0.8333 | 0.6043E-04 | -0.2173E-04 | -0.5924E-03 |
| 17.0000 | 7.0000 | 0.8333 | 0.1130E-03 | -0.1910E-04 | -0.6432E-03 |
| 16.0000 | 7.0000 | 0.8333 | 0.1296E-03 | -0.1558E-04 | -0.5755E-03 |
| 13.0000 | 7.0000 | 0.8333 | 0.1376E-03 | -0.3952E-05 | -0.3672E-03 |
| 10.0000 | 7.0000 | 0.8333 | 0.1268E-03 | 0.3516E-05 | -0.2183E-03 |
| 7.0000 | 7.0000 | 0.8333 | 0.1182E-03 | 0.6428E-05 | -0.1644E-03 |
| 4.0000 | 7.0000 | 0.8333 | 0.1151E-03 | 0.7169E-05 | -0.1616E-03 |
| 0.0000 | 7.0000 | 0.8333 | 0.1180E-03 | 0.7351E-05 | -0.1611E-03 |