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Departamento de Engenharia Civil

Licenciatura em Engenharia Civil

METODOLOGIA DE DIMENSIONAMENTO DE PAVIMENTOS COM CAMADAS ESTABILIZADAS

CASO DE ESTUDO: SIMULAÇÃO TEÓRICA DE ANÁLISE COMPARATIVA DE BASES SOLO-CIMENTO E CRUSHER-RUN.

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Monografia apresentada para a obtenção do grau de Licenciatura em Engenharia Civil na Universidade Eduardo Mondlane.

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DECLARAÇÃO DE HONRA

Eu, **Tárekh Lácio Givá António Impuia**, declaro que este Trabalho de Licenciatura foi exclusivamente realizado por mim. O mesmo é agora submetido de acordo com os requisitos e exigências para obtenção do grau de Licenciatura em Engenharia Civil pela **Universidade Eduardo Mondlane**.

Tárekh Lácio Givá António Impuia

_____

Dedicatória

Primeiramente, dedico este trabalho a mim, que tenho mantido o foco e sempre volto à disciplina, mesmo após fracassos.

Dedico este trabalho aos meus amados pais, Lázaro Impuia e Rosimine Givá, e à minha querida irmã Swelly Impuia, cujo apoio incansável e amor incondicional foram a luz que guiou meu caminho rumo ao sucesso. À eles, que nunca me abandonaram e sempre me inspiraram a ter perseverança, mesmo diante dos desafios mais árduos.

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Resumo

Os Pavimentos Flexíveis são compostos por várias camadas, frequentemente construídas com material britado (Crusher-Run) e Solo-cimento. Ambos os métodos construtivos apresentam suas particularidades em termos técnicos, tecnológicos e económicos. Devido à importância desses procedimentos construtivos, o candidato optou por fazer um estudo teórico que consiste em simular e avaliar os comportamentos dos materiais que cumlinou na elaboração do presente Trabalho de Licenciatura, utilizando a avaliação da distribuição de tensões, extensões e os efeitos que tais acções têm sobre os casos em estudo.

Com o objectivo de analisar o comportamento sob o efeito dos diferentes tipos de tráfego, foram realizadas simulações tendo em conta as configurações dos diferentes tipos de eixos, o que permitiu determinar os Números de Transferência, avaliar o comportamento dos pavimentos e identificar as limitações da avaliação linear-elástica.

Palavras-chaves: Pavimento Flexível; Solo-cimento; Crusher-run; Tensões; Extensões; Números de Transferência; Linear-Elástica.

Abstract

Flexible Pavements are composed of several layers, often constructed with crushed material (Crusher-Run) and Soil-cement. Both construction methods have their particularities in technical, technological and economic terms. Due to the importance of these construction procedures, the candidate opted to carry out a theoretical study that consists of simulating and evaluating the behaviors of the materials that culminated in the preparation of this Degree Work, using the evaluation of the distribution of tensions, extensions and the effects that such actions have on the cases under study.

In order to analyze the behavior under the effect of different types of traffic, simulations were carried out taking into account the configurations of different types of axles, which allowed determining the Transfer Numbers, evaluating the pavement behavior, and identifying the limitations of the linear-elastic evaluation.

Keywords: Flexible Pavement; Soil-cement; Crusher-run; Stresses; Strains; Transfer Numbers; Linear-elastic.

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1. Introdução

1.1. Contextualização

Os pavimentos rodoviários surgiram com o objectivo de melhorar as condições de transporte, especialmente em longas distâncias e para o transporte de cargas. No entanto, a Engenharia Rodoviária enfrenta desafios relacionados ao impacto antrópico e climático, além de restrições econômicas e ambientais.

No início dos anos 1920, o dimensionamento e construção de pavimentos foi inteiramente empírico. Alguns esforços foram feitos depois da Primeira Guerra Mundial, para o dimensionamento de pavimento como uma função de carregamento, mas isso não foi até a segunda guerra mundial, pois a explosão do tráfego rodoviário e aéreo geraram a necessidade para um procedimento de dimensionamento mecanístico de pavimento. Huang (1993, 2004) citado por Diogo (2007).

Em Moçambique, um país em desenvolvimento e de vasta extensão territorial (801.590 km²), a execução inadequada dos pavimentos pode ter impactos significativos sobre a economia. A rede de estradas de Moçambique possui cerca de 30.464 km de extensão, que consiste em 7.344 km (24%) de trechos pavimentados e 23.120 km (76%) de trechos não pavimentados (**Agência de Cooperação Internacional do Japão, 2018**). Assim, para melhorar o cenário rodoviário nacional, é essencial buscar soluções viáveis tanto a curto quanto a longo prazo.

Nesse sentido, o presente trabalho estuda o desempenho de bases estabilizadas em termos de resistência à compressão, resistência à fadiga e capacidade de carga sob a ação de diferentes configurações de tráfego: eixo simples com uma roda, eixo simples com rodado duplo, eixo tandem com rodado duplo e eixo trindem com rodado duplo, utilizando cargas de 520 kPa, 600 kPa e 700 kPa. O estudo resulta de uma análise teórica que permitiu a avaliação das simulações realizadas sobre pavimentos de diferentes estruturas, recomendadas pela SATCC, adequadas para suportar o tráfego de 1.5 MESAs a 3 MESAs em uma região seca.

Serão abordadas duas formas de estabilização: a estabilização química, representada pela estabilização solo-cimento, e a estabilização mecânica, representada pelas camadas de Crusher-Run (rocha britada). Essas formas de estabilização foram selecionadas devido à sua ampla utilização na construção de pavimentos rodoviários e à representatividade das técnicas químicas e mecânicas de estabilização. As estruturas de pavimento serão

compostas por sub-bases de solo-cimento e bases de Crusher-Run ou solo-cimento.

1.2. Justificativa

A escolha de materiais para a construção civil desempenha um papel fundamental na durabilidade e eficiência das obras. Neste contexto, a análise comparativa entre camadas de solo-cimento e crusher-run se revela essencial, uma vez que ambos os materiais apresentam características distintas que impactam diretamente o desempenho estrutural.

O solo-cimento, uma mistura de solo, cimento e água, é uma alternativa sustentável, especialmente em regiões onde a disponibilidade de agregados é limitada. Ele oferece benefícios como a melhoria da estabilidade e resistência ao compressão do solo, além de contribuir para a redução de resíduos, ao permitir a utilização de solos inservíveis.

Por outro lado, o crusher-run, que consiste em fragmentos de rochas e agregados, é amplamente reconhecido por suas propriedades de drenagem e resistência mecânica. Frequentemente utilizado em camadas pavimento, garantindo suporte e estabilidade a estruturas rodoviárias.

Em suma, a elaboração desta monografia justifica-se pela necessidade de avaliar as soluções empregadas em nível nacional, visando contribuir para o aperfeiçoamento das técnicas de construção, manutenção e controle de pavimentos. Espera-se que os resultados obtidos possam fornecer subsídios relevantes para a área da Engenharia Civil e contribuir para a melhoria das práticas de pavimentação.

1.3. Formulação do Problema

Os pavimentos são estruturas resistentes, conquanto sejam destrutíveis. A sua construção e manutenção são onerosas, pelo que a análise correcta e o processo de gestão tornam-se imperiosos para atingir o tempo de vida útil esperado. Todavia, os custos de manutenção e gestão são afectados pela qualidade de projecção e construção destas estruturas.

A Rede Rodoviária Nacional apresenta vários defeitos funcionais e estruturais, o que afecta a Economia, bem como a qualidade de vida dos seus utentes. A heterogeneidade de recursos dificulta a homogeneização dos

materiais de construção, tornando importante conhecer os materiais a serem empregues e prever o seu comportamento ao longo do tempo.

Deste modo, o presente trabalho baseia-se nas seguintes questões de pesquisa:

Como as propriedades mecânicas do solo-cimento e do crusher-run influenciam o desempenho estrutural dos pavimentos?

Quais são os factores que mais impactam a durabilidade a longo prazo dos pavimentos construídos com solo-cimento e pedra britada?

1.4. Objectivos

1.4.1. Geral

O presente Trabalho de Licenciatura tem como objectivo geral avaliar o desempenho das bases cimentadas e das granulares

1.4.2. Específicos

- Dimensionar pavimentos com camadas tratadas com Solo-cimento e/ou crusher-run;
- Proceder à análise comparativa das deformações permanentes de pavimentos com camadas de Solo-cimento com o de Crusher-run;
- Avaliar o impacto da escolha do tipo de base na durabilidade em cada tipo de pavimento;
- Identificar as limitações de pavimentos com camadas establizadas com Solo-cimento e camadas de Crusher-run.

1.5. Estrutura do Trabalho

A monografia é composta pelas seguintes secções: Introdução, Revisão Bibliográfica, Metodologia, Resultados, Conclusões, Referências Bibliográficas e Anexos.

1 – INTRODUÇÃO

Apresenta o enquadramento do trabalho desenvolvido. Adicionalmente, apresenta a justificativa, a problemática, os objectivos e a estrutura do trabalho.

2 – REVISÃO DA LITERATURA

A Revisão Bibliográfica fornecerá embasamento teórico sobre os conceitos de bases estabilizadas, as técnicas de estabilização utilizadas e o comportamento dos pavimentos flexíveis sob acção da carga.

3 – METODOLOGIA

A Metodologia descreverá os procedimentos adotados para a realização do estudo. Especificamente os procedimentos usados para a selecção dos pavimentos e para determinação dos números estruturais.

4 – RESULTADOS E DISCUSSÃO

Apresenta os resultados obtidos para analisar o comportamento das camadas em estudo.

5 – CONCLUSÕES E RECOMENDAÇÕES

Descreve as conclusões retiradas do trabalho desenvolvido e recomendações pertinentes para desenvolvimentos futuros. Por fim, são apresentadas as referências bibliográficas citadas ao longo do trabalho e os anexos.

2. Revisão Bibliográfica

2.1. Pavimentos Flexíveis

Os pavimentos flexíveis são amplamente adoptados em todo o país. Quando projectados correctamente, eles oferecem um desempenho aceitável e possibilitam a utilização de recursos locais, recorrendo a técnicas de melhoramento quando viavél.

Segundo E. J. Yoder e M.W. Witczak (1975) pavimentos flexíveis são estruturas compostas por uma camada de desgaste relativamente fina, apoiada sobre extractos de base e sub-base que repousam em um leito compactado (**Figura 1**).

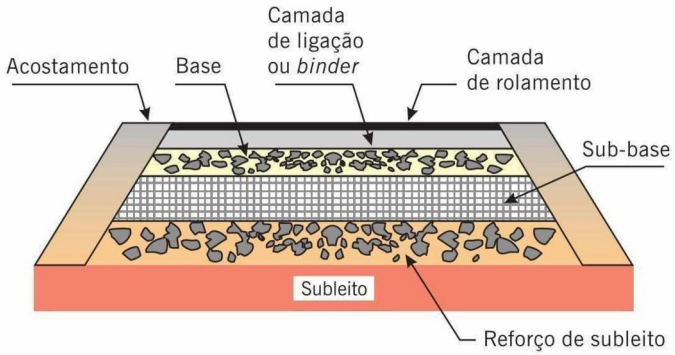

Figura 1: Corte Transversal de um Pavimento Flexível (Benucci, 2008)

O desempenho do pavimento flexível depende do comportamento das suas camadas constituintes, tornando essencial a realização de análises adequadas. Essas análises englobam a avaliação das Tensões no Subleito, Tensões de Cisalhamento, Tensão de Tracção, efeito da pressão dos pneus e cargas aplicadas.

2.1.1. Tensões Verticais no Subleito

De acordo com E.J.Yoder e M.W.Witczak (1975), os parâmetros $A(a^1/h_2)$, $K1(E^2_1/E_2)$, $K2(E_2/E_3)$ e $H(h_1{}^3/h_2)$ têm sido identificados como factores determinantes no processo de amenização de tensões. Sendo que as tensões no subleito dependem das camadas sobre si.

[1] **a**: Raio da Superfície de Contacto.
[2] $\mathbf{E_n}$: Módulo de Elasticidade da Camada **n.**
[3] $\mathbf{h_n}$: Espessura da Camada **n.**

Recorrendo às soluções propostas por D.Burmister (1945) para a avaliação de modelos de pavimentos com múltiplas camadas, é possível obter uma aproximação do comportamento desses pavimentos. Essas soluções fornecem métodos e técnicas que permitem analisar as respostas estruturais e as distribuições de tensões ao longo das diferentes camadas do pavimento. Esta abordagem é fundamental para o projecto de dimensionamento adequado de Pavimentos Flexíveis, garantindo a sua durabilidade e desempenho ao longo do tempo.

De acordo com o ábaco desenvolvido por D.Burmister (1958), **Figura 2**, e o desenvolvido por Yang H.Huang (1969), **Figura 3**, é possível avaliar o impacto que as espessuras e qualidades dos materiais têm nos pavimentos. Na Figura 2, a análise é realizada considerando pavimento de duas camadas em que a relação h1/a de 1, representa a relação entre a espessura da camada e o raio de contacto. Esta análise permite observar a redução das tensões ao longo dos diferentes extractos, partindo de uma camada homogénea de Bossinesq com uma relação E1/E2 de 1, em que as tensões são reduzidas em até 68%. À medida que a relação E1/E2 aumenta para 100, apenas 8% das tensões alcançam a superfície do subleito. Esse estudo demonstra como as diferentes combinações de propriedades dos materiais influenciam a distribuição das tensões no pavimento.

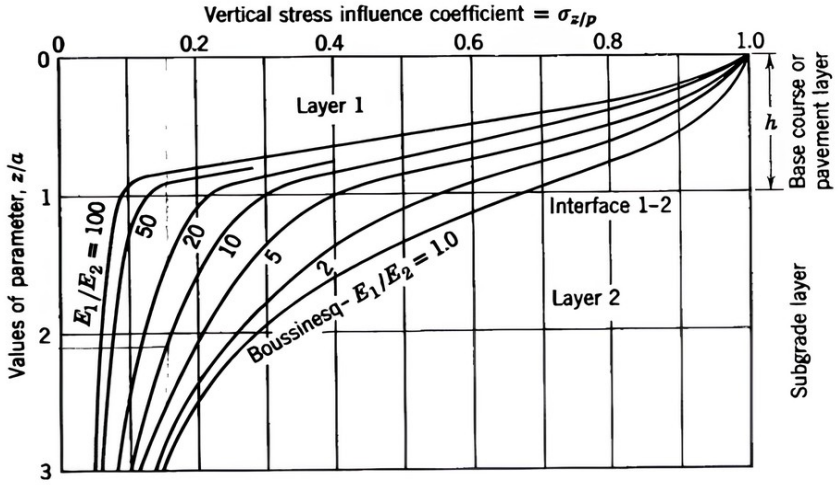

Figura 2: Distribuição de Tensões Verticais num Sistema de Duas Camadas (Burmister 1945)

Entretanto não sendo os Módulos de Elasticidade as únicas variavéis a tomar em consideração na avaliação das tensões verticais em pavimentos, a influência da variação das espessuras das camadas pode ser avaliada para

pavimentos de duas e três camadas pelos ábacos de Huang (**Figura 3**) e de Burmister(**Figura 4**).

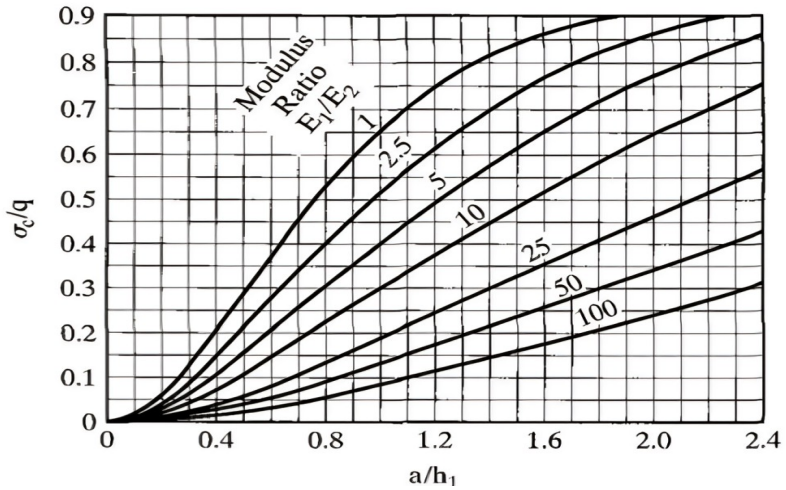

Figura 3: Tensão Vertical na Interface de um Sistema de Duas Camadas (Huang 1969)

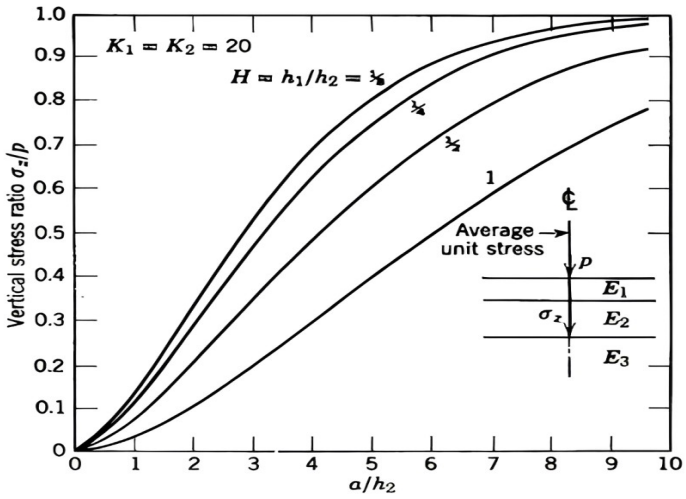

Figura 4: Taxa de Tensão Vertical na Segunda Interface de um Sistema de Três Camadas em função a/h2 (Burmister 1943)

Avaliando os parâmetros identificados, é correcto afirmar que, para uma determinada tensão, o desempenho do pavimento tende a ser melhor quanto maior forem as camadas. Aumentar as espessuras das camadas contribui para uma distribuição mais eficiente das tensões, resultando em um melhor desempenho geral do pavimento. Além disso, é possível melhorar o desempenho do pavimento por meio de outras estratégias como melhoramento da qualidade dos materiais utilizados. Aumentar a espessura da camada de revestimento fornece desempenho adicional, enquanto a melhoria da qualidade dos materiais pode aumentar a capacidade de suporte sem recorrer a elevadas espessuras.

2.1.2. Tensões de Cisalhamento

A medida que as camadas superiores tendem a ser mais rígidas possibilitando melhor dissipação de cargas, estas tendem a possuir maiores tensões de cisalhamento à medida que a rigidez do material aumenta (E.J. Yoder e N.W. Witczak, 1959).

Em qualquer plano horizontal dado em uma estrutura em camadas, a máxima de tensão de cisalhamento horizontal ocorre diretamente sob a borda da placa carregada. O valor de cisalhamento horizontal tende a zero à medida que a distância radial aumenta a partir da linha central da placa. A **figura 5** ilustra o factor de tensão de cisalhamento horizontal em função da profundidade abaixo da superfície do pavimento em um plano que passa pela borda da placa para vários valores de K1. A magnitude da tensão de cisalhamento aumenta significativamente à medida que o módulo da superfície é aumentado (E.J.Yoder e N.W. Witczak, 1959).

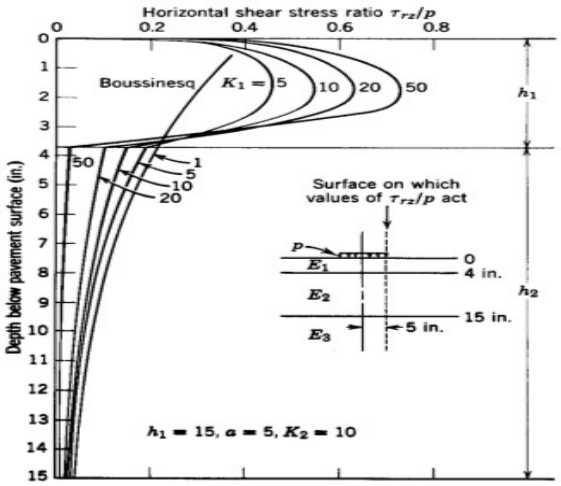

Figura 5: Distribuição de Tensões de Cisalhamento em Sistemas de Três Camadas (Nielson 1960).

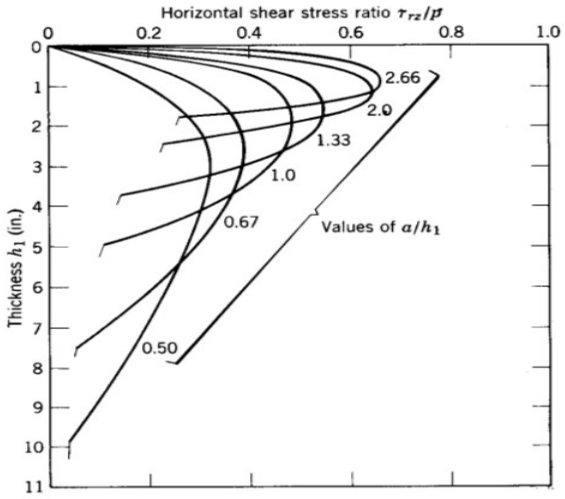

Figura 6: Distribuição de Tensões de Cisalhamento em Sistemas de Três Camadas (Nielson 1960).

2.1.3. Tensão de Tracção

A distribuição de Tensões de Tracção é influenciada pela magnitude do K1(E1/E2) e H(h1/h2). Na necessidade de alocar materiais de maior rigidez na superfície, estes deformam menos, transferindo os esforços para as camadas inferiores.

Por conseguinte, as Tensões de Tracção devem ser consideradas como critério de dimensionamento devido à fissuração por fadiga. Para quantificar a Tensão Crítica na face intermédia de um pavimento de duas camadas, Huang (1973) elaborou ábacos(**Figura 7**) que permitem determinar o Factor de Tracção de um pneu (Fe), o que possibilita calcular a Tensão Crítica de Tracção num Pavimento de Dua Camadas (e).

$$e = \frac{q}{E_1} * F_e$$

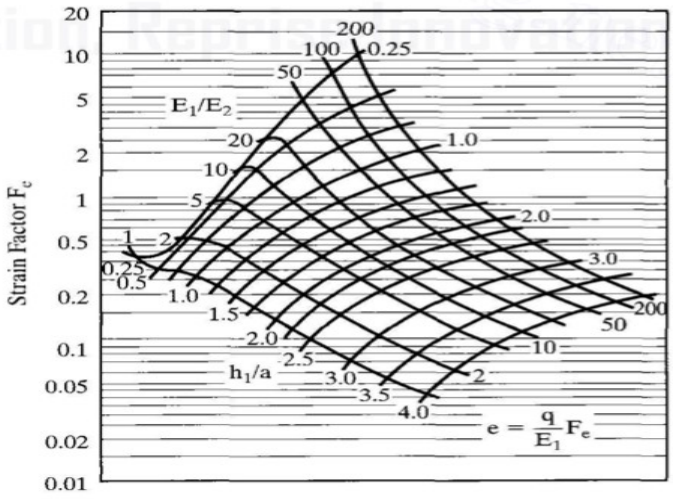

Figura 7: Factor de Tracção para Uma Roda (Huang 1973).

Verificando o ábaco, fica claro que a espessura e a rigidez têm um impacto significativo no desenvolvimento da Tensão de Tracção. E o mesmo pode ser observado na quantificação de tensões em pavimentos de três camadas como demonstrado na **Figura 8**.

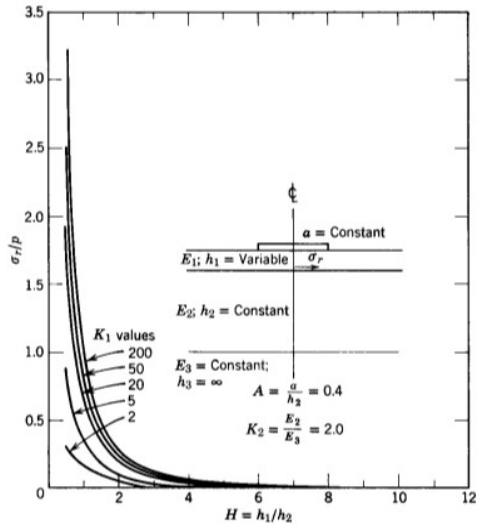

Figure 8: Tensão Horizontal de Tracção na Superfície sob a Primeita Camada (Fonte E.J.Yoder e M.W.Witczak 1975)

2.1.4. Efeito da Pressão dos Pneus e da Carga

A carga e a pressão dos pneus têm influência na magnitude da tensão vertical nos pavimentos. Utilizando a representação de Bossinesq para a distribuição de tensões em um solo ideal, pode-se inferir que o aumento da pressão afecta principalmente a camada superficial. Em outras palavras, em uma carga constante e pressões variáveis, as variações nas camadas inferiores são insignificantes como demonstrado na Figura 9. Portanto a utilização de materiais de melhor qualidade é preferivel, ao invés de recorrer ao aumento de espessuras.

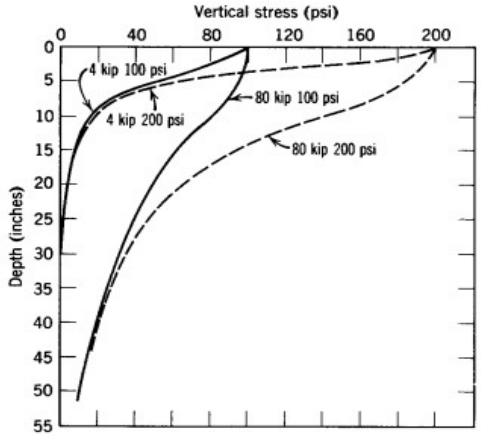

Figura 9: Variação da Tensão Vertical com a profundidade, Problema de Boussinesq (Fonte E.J.Yoder e M.W.Witczak 1975)

Por outro lado a uniformização de pressão do rodado e variação da carga infui em toda a profundidade, sendo mais acentuada nas camadas inferiores. Isto ocorre pela sobreposição de efeitos pelo aumento de eixos ou pneus que permitem a pressão constante. Apreciando o problema de Boussinesq(Figura 10) quanto ao aumento de carga, compreende-se que a espessura da camada tem forte influência no comportamento das tensões até a superficie do subleito.

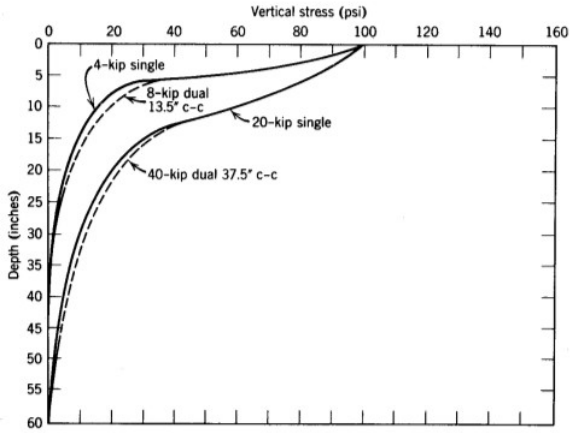

Figura 10: Problema de Boussinesq sob efeito de númeor de pneuos nas Tensões Verticais. (Fonte E.J.Yoder e M.W.Witczak 1975)

2.1.5. Deflexão Vertical

As deflexões são os deslocamentos que os elementos efetuam sob acção de cargas. Este fenómeno é usado para avaliar o desempenho e integridade estrutural dos pavimentos, sendo avaliadas a Deflexão Vertical Superficial e a Vertical Entre Camadas.

Segundo E.J. Yoder e M.W. Witczak(1975), em Pavimentos Flexíveis, a Deflexão Vertical Superficial é contribuída pelo subleito em proporções que variam dos 70% aos 95%. Tal sendo resultado da Deformação Elástica do Subleito, posto isto, a limitação correcta das tensões verticais no subleito tem influência na Deflexão Superficial.

A Deflexão Superficial Vertical permite avaliar o nível de serviço, deterioração do pavimento, identificação de áreas problemáticas e a estrutura do pavimento.

Em contrapartida a Deflexão Vertical entre Camadas é contribuida pela boa execução de trabalhos. Sendo esta quantificação necessária para avaliar a adesão entre camadas, compactação do solo de base e a identificação de falhas nas interfaces.

2.2. Camadas Estabilizadas Quimicamente

A estabilização química é definida como o processo de adição de substâncias que melhoram as propriedades do solo. Esse procedimento não

visa apenas a melhoria da capacidade de carga, mas também de mais propriedades. Essas podem ser a impermeabilização, aumento da retenção da água e redução da plasticidade (Tabela 1).

Os vários tipos de estabilização química são categorizados de acordo com as propriedades a melhorar no solo. O desempenho de cada agente estabilizante difere dos outros, pois cada um tem particularidades de uso e limitações.

Os principais materiais de cimentação que podem ser usados incluem cimento Portland, cal, misturas de cal com cinzas volantes e betume. O cimento Portland tem sido usado com bons resultados para melhorar estradas de cascalho, assim como para estabilizar solos naturais. Pode ser usada em todos os tipos de bases e sub-bases. Entretanto, não é recomendado o seu uso na presença de matéria orgânica, pois nessas condições o seu desempenho é deficiente.

Outro agente de cimentação que é comumente usado é a cal hidratada. A cal melhora a resistência do solo primeiramente pela acção pozolânica, que corresponde a formação de cimentícios de silicatos e aluminatos. Esse material é mais eficiente quando usado em material granular ou argilas magras. Sendo necessárias pequenos acréscimos para a estabilização adequada. Entretanto, sendo as cinzas volantes ricas em sílica e alumina, esta pode ser acrescentada a cal para acelerar a acção pozolânica na estabilização.

Comummente, o uso de material cimentício é restrito pelo custo e, por tal razão, baixas quantidades podem ser usadas no solo para simplesmente modificá-lo. Segundo E.J. Yoder e M.W. Witczak (1975), os modificadores mais empregues são cimento, cal e betume. Cimento e cal alteram o filme de água nas partículas do solo e reduzem o índice de plasticidade. Pequenas porções de betume são comumente usadas em agregados de baixa granulometria, onde essa retarda a absorção de água da fracção argilosa.

	Tipo	Aditivo	Mecânica da Estabilização	Uso	Situação Mais Adequada	Proporção
Aumentar a resistência do solo pela acção de cimentação	**Agente de Cimentação**	Cimento Portland	*Modificação dos minerais de argila	Base e Sub-base	Solos arenosos e argilas magras	A-2 5-9%
			*Hidratação			A-7 9-15%
		Cal	*Alterar a película de água	Base e Sub-base	Material granular e argilas magras	2-5%
			*Floculação			
		Cal + Cinza Volante	*Acção pozolânica de cal de silica	Base e Sub-base	Material granular e argilas magras	2-5% cal + 10-20% cinza volante
			*Modificação dos minerais de argila			
		Betume		Base e Sub-base	Granular	2-5%
Melhorar a plasticidade	**Modificadores**	Cimento Portland	*Modificação da argila	Melhorar bases e sub-bases mal graduados	Melhorar estradas existentes, argilas	0.5-4%
			*Alterar a película de água			

pode ou não aumentar a resistência		Cal	*Alterar a película de água *Modificar os minerais de argila			0.5-4%
		Betume	*Retardar absorção de água		Melhorar estradas existentes	1-3%
Pouco ou nenhum aumento na Resistência	**Impermeabilizantes**	Betume	*Retardar absorção de água	Sub-base	Melhorar estradas existentes	4-6%
		Membranas	*Previne circulação da água livre e seus vapores	Sub-base e Subleito	Solos que podem ser melhorados com a compactação	
	Agentes de Retenção de Água	Cloreto de Cálcio	*Propriedades deliquescentes *Baixa ponto de fusão da água	Ligação de tráfego	Agregados graduados	0.5-1.5%
		Cloreto de Sódio	*Propriedades deliquescentes *Baixa ponto de fusão da água			0.5-1.5%

	Retardamento de Água	Compostos Catiónicos Orgânicos	*Alterar minerais de argila para comportarem como agentes hidrofobicos		Sub-base	

Tabela 1: Adaptado E.J. Yoder e M.W. Witczak

2.2.1. Solo-Cimento

O tratamento do solo com cimento para garantir as propriedades desejadas consiste em adicionar cimento Portland ao solo pulverizado e permitir que a mistura endureça através da hidratação do cimento. No entanto, os factores que influenciam nas propriedades do solo-cimento são as propriedades do solo, a quantidade de cimento, o grau de mistura, o tempo de cura e a densidade seca da mistura compactada. Esse método de construção de camadas tem permitido o aproveitamento de material local que, por si só, seria rejeitado devido a propriedades indesejáveis. Além disso, o uso de cimento tem possibilitado a reciclagem de camadas danificadas, reduzindo a necessidade de importação de novo material para a restauração.

O teor de cimento determina se as características da mistura são dominadas pelas propriedades do solo original ou pelos produtos de hidratação. Durante os primeiros um ou dois dias após a construção, esse aumento é rápido. Posteriormente, a taxa diminui, embora o aumento da resistência continue, desde que a camada esteja bem curada. A escolha do teor de cimento depende da resistência exigida, da durabilidade da mistura e da solidez do agregado. (Manual de Dimensionamento de Pavimentos Flexíveis e Semi-Rigídos - ROLT, John, e OTTO, Andrew, 2019).

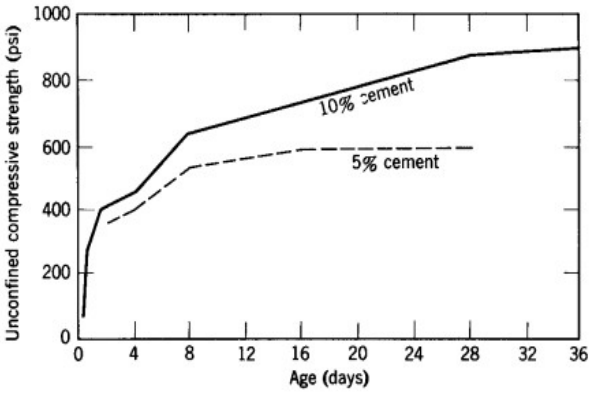

Figura 11: Influência do Tempo de Cura na Resistência à Compressão Não Confinada para uma Argila Siltosa(CL) Estabilizada com Cimento

A estabilização por solo-cimento não carece de ser isolada, havendo a possibilidade de incluir mais aditivos que possam melhorar as qualidades do material. Pode-se usar a cal como pré-estabilizante em solos muito plásticos ou cloreto de cálcio para melhorar as demais propriedades.

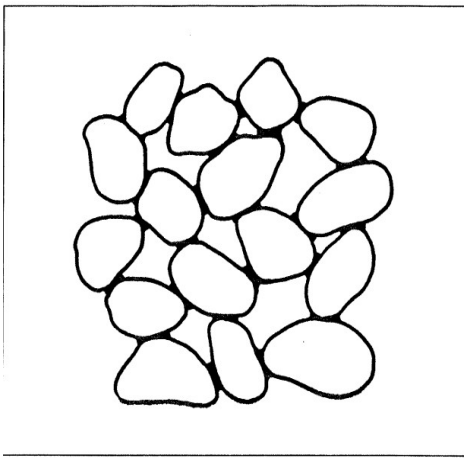

Figura 12: Cimentação nos Pontos de Contacto em Material Grosseiro.

Nos solos granulares, o efeito do cimento é similar àquele observado no betão. A única diferença é que a pasta de cimento não preenche os vazios, as partículas são apenas cimentadas nos Pontos de Contacto (**Figura 12**). Assim, uma matriz descontínua é formada. Quanto melhor graduada for a granulometria dos solos, menores serão os vazios, maior será o número e mais extensa a superfície de contacto interparticular, e mais fortes serão os efeitos da cimentação.

Nos solos coesivos (presença de siltes e argilas), a hidratação do cimento cria fortes ligações entre as várias substâncias minerais e forma uma matriz que envolve eficientemente as partículas de solos não cimentadas.

Desenvolve-se desta maneira, uma estrutura celular, da qual depende a resistência de toda a construção, mesmo que a resistência das partículas de argila dentro da matriz seja muito mais baixa. Além da matriz o cimento por um lado reduz a plasticidade e aumenta de outro, a resistência aos esforços. O efeito químico na superfície diminui a afinidade da argila com a água e, consequentemente, a sua capacidade de retenção. Juntamente com o aumento da resistência, essa acção resulta no isolamento dos agregados não estabilizados que, assim, não se podem expandir.

A camada de solo-cimento tem-se mostrado bastante resistente e durável desde que: a mistura seja bem dosada, sejam respeitados os prazos máximos de mistura, espalhamento e compactação, seja minimizada a ocorrência excessiva de trincas por retracção, o subleito tenha boa capacidade de suporte para que o solo-cimento seja compactado de forma eficiente. (BERNUCCI et al., 2006).

É comum a presença de fissuras e/ou trincas que se formam inicialmente em camadas do tipo solo-cimento devido à retração térmica ocasionada pela hidratação do cimento (cura), bem como pela consequente contracção causada através da perda de humidade. O espalhamento e a abertura dessas trincas dependem da quantidade de cimento e, principalmente, das características do solo. Quando são utilizados solos mais coesivos e argilosos, a camada de solo-cimento sofre trincamento severo que pode reflectir na camada de revestimento.

Como método para garantir a qualidade e reduzir a fissuração indesejável, as camadas de solo-cimento são classificadas de acordo com o tipo de solo utilizado, limitando as tensões máximas e mínimas. As tensões mínimas são determinadas para garantir a resistência necessária para a vida útil do pavimento, enquanto as tensões máximas são limitadas para reduzir a fissuração devido à retracção, uma vez que resistência é proporcional à dosagem de cimento.

Resistência de Projecto para Materiais Cimentados (MPa)								
Classificação da Camada	**C1** Pedra Britada Cimentada ou Cascalho		**C2** Pedra Britada Cimentada ou Cascalho		**C3** Cascalho natural cimentado		**C4** Cascalho natural cimentado	
	Min	Max	Min	Max	Min	Max	Min	Max
Laboratório – Projecto UCS em 7 dias 100%Mod. Densidade AASTHO	6	12	3	6	1.5	3	0.75	1.5
Laboratório – Projecto UCS em 7 dias 97%Mod. Densidade AASTHO	4	8	2	4	1	2	0.5	1

Tabela 2: Resistência de Dimensionamento de Materiais Cimentados (Adaptado TRH13)

A nível regional, é regulado que as camadas de solo-cimento sejam feitas com materiais de classificação G2, G4, G5 e G6. Portanto, é imprescindível realizar a caracterização do solo, incluindo ensaios para determinar os Limites de Atterberg, Granulometria, CBR e as respectivas densidades.

2.2.1.1. Critérios para Falha Estrutral

A integridade estrutural da camada de solo-cimento é imposta pela extensão máxima por tracção na face inferior que determina a fadiga efectiva, como da compressão na face superior da camada que determina o tempo de vida devido ao esmagamento. As camadas de solo-cimento apresentam estrutura moderadamente contínua na fase inicial e, por indução de cargas, a mesma fissura até comportar-se como uma camada granular de certa equivalência. Com a dispersão de fissuras, o comportamento estrutural altera, sendo necessário modificar os módulos para os diferentes cenários.

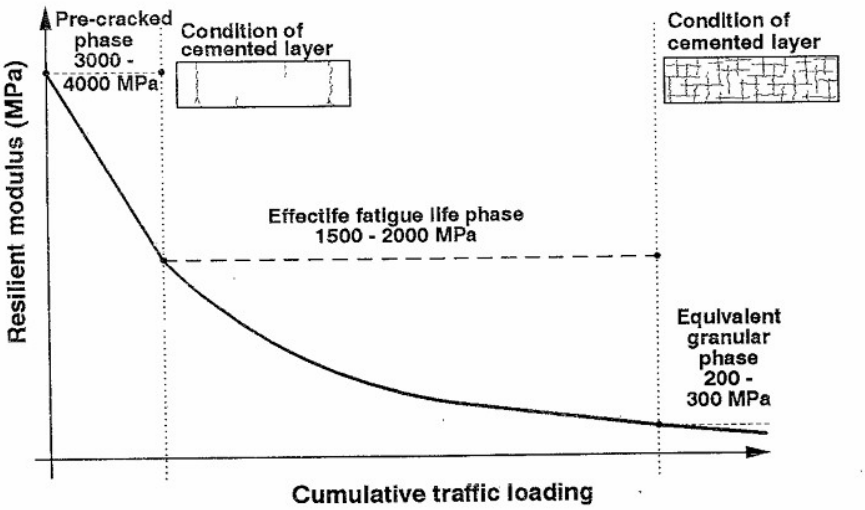

Figura 13: Comportamento a Longo Prazo de Camadas Estabilizadas com Cimento (Adaptado: Overview of the South African Mechanistic Pavement Design Analysis Method)

A falha estrutural por fadiga inicia quando a camada é sujeita a cargas iguais ou superiores a 25% da sua resistência máxima. Pois nessas condições inicia-se a microfissuração no contacto do agregado e a matriz do ligante, a qual se expande sob acções repetitivas.

A falha por esmagamento decorre do carregamento excessivo da camada, podendo ser dividida em duas fases. Nomeadamente, Esmagamento Inicial, que inicia-se aos 2 mm de deformação e o Esmagamento Avançado em que a camada deforma-se aos 10 mm com fissuração extensiva da camada.

Na existência de dois tipos de falha estrutural da camada, o Tempo de Vida Útil é determinado pelo menor número de passagens que podem ocorrer até que uma das falhas seja atingida. Nas Camadas de Solo-cimento, é possível ter os seguintes cenários:

- Sem Condições Para Esmagamento (**Figura 14**);

- Condições Para Esmagamento Inicial (**Figura 15**);
- Condições Para Esmagamento Avançado (**Figura 16**).

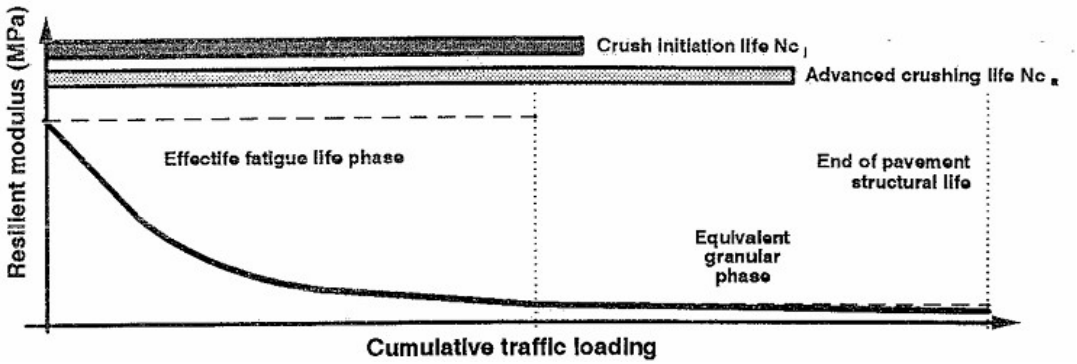

Figura 14: Sem Condições para Esmagamento.

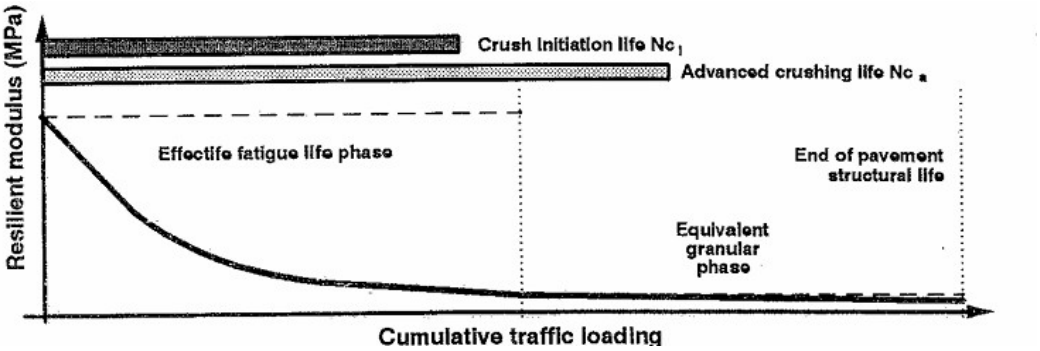

Figura 15: Condições para Esmagamento Inicial.

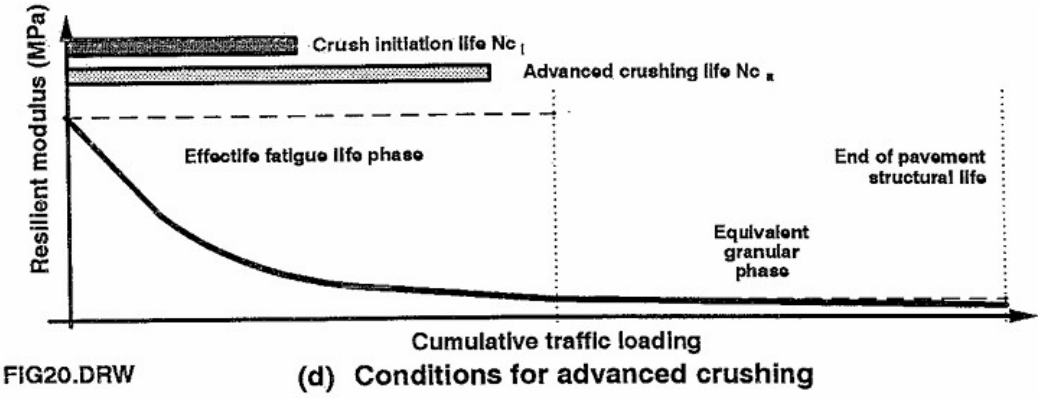

Figura 16: Condições para Esmagamento Avançado.

2.2.1.2. Procedimentos Construtivos

A estabilização pelo método solo-cimento requer que o cimento seja uniformemente distribuído ao longo da camada para conferir as propriedades projectadas. Para atingir esse objectivo é necessário preparar o material que irá constituir a camada, misturar correctamente, humedecer controladamente, compactar e controlar a cura.

O material a ser estabilizado deverá ser húmedecido ao teor óptimo e minimamente compactado para permitir a aplicação do agente estabilizante. Contudo, o material deve estar isento de contaminantes ou agregado de dimensões supeiores às recomendadas. Somente após o material apresentar as condições citadas é possível a aplicação do cimento. Caso a mistura seja local, os sacos de cimento devem ser distribuídos segundo as linhas guias, conquanto os mesmos não podem ser mantidos expostos aos elementos por mais de 24 horas sob o risco de absorverem humidade prematuramente.

Para atingir a correcta e uniforme distribuição do cimento, o procedimento deve ser feito de forma inenterrupta sobre a toda a área a ser estabilizada, recorrendo ao uso espalhador mecânico aprovado ou manualmente. O material deve ser misturado a toda espessura recorrendo a niveladora, grade de disco, misturador rotativo ou equipamento equivalente.

Sendo a água o agente hidratante do cimento e que também confere trabalhabilidade necessária, a rega deve ser feita para permitir que o material atinja a humidade óptima e que com o equipamento disponível atinja a densidade mínima solicitada. Cada aplicação de água deve ser acompanhada pelo procedimento de mistura escolhido para evitar concentração de água superficial ou escoamento sobre a superfície da camada.

A compactação é o procedimento de transferência de energia para o solo para que esse atinja a densidade almejada. Posto isso a camada deve ser regularizada pela motoniveladora para atingir as configurações geométricas do projecto.

Como actividade final, o controle da cura deve ser cuidadoso, pois o trincamento excessivo por fissuração poderá fazer com que a camada estabilizada não apresente os requisitos projectados. A proteção contra secagem rápida deve ser de pelo menos 7 dias. Os Métodos de Cura são:

- Cura com Rega de Água;
- Cura com Camada Protectora Húmida;
- Cura com Membrana (Emulsão Betuminosa/Emulsão Fluidificada);
- Cura com Rega de Impregnação.

2.3. Camadas Estabilizadas Mecanicamente

A estabilização mecânica consiste em densificar o solo através de energia mecânica, reduzindo os índices de vazios, criando maior intimidade entre os grãos, aumentando sua densidade e melhorando propriedades do solo como o aumento da resistência e a redução da permeabilidade.

Nas bases granulares a estabilidade é directamente proporcional aos esforços internos, pois essa propriedade permite resistir à deformação sob carregamento. Entretanto as tensões internas e a resistência ao cisalhamento por sua vez dependem da densidade, formato das partículas e distribuição granulométrica. Sendo a granulometria a que mais influencia no comportamento da base.

A distribuição granulométrica influencia na transferência de tensões entre as partículas, densidade, permeabilidade e resistência ao cisalhamento. Assim sendo pode-se classificar a base como:

- Agregado Sem Finos: A estabilidade depende do contacto grão-grão. Apresenta muitos vazios fazendo com que tenha baixa densidade e alta permeabilidade (**Figura 17a**).
- Agregado Com Finos Suficientes: A estabilidade depende da interacção grão-grão, entretanto a presença de finos ajuda na resistência ao cisalhamento. É a configuração que apresenta maior densidade, baixa permeabilidade e apresenta dificuldade moderada para compactar. No ponto de vista de estabilidade, apresenta a situação ideal pois apresenta alta resistência ao cisalhamento em condição confinada assim como não confinada (**Figura 17b**).
- Agregado Com Excesso de Finos: A estabilidade não depende da relação contacto grão-grão, pois esses encontram-se dispersos entre os finos. É a configuração mais impermeável, todavia a estabilidade dessa estrutura é muito afectada por condições adversas de água. É o material que pode apresentar maior facilidade de compactação (**Figura 17c**).

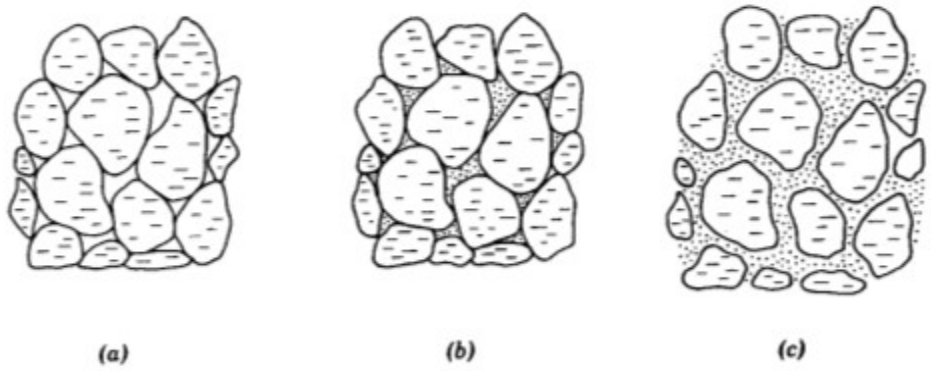

Figura 17: Estados de Mistura Solo-Agregado Fonte: E.J.Yoder e M.W.Witczak- Principals of Pavement Design.

Segundo a Figura 18, referente à densidade e testes CBR contendo várias proporções de finos é possível verificar a concordância dessas duas propriedades. Nessa amostra a densidade máxima é adquirida quando a porção de finos está entre os 8 e 10%. Em contraste a estabilidade máxima pela análise CBR é obtida quando a fracção fina é inferior a 8% e superior a 6%. Essa avaliação permite compreender que densidade máxima não coincide com a máxima estabilidade, havendo a necessidade de avaliar as duas variáveis, embora não seja errado considerar na máxima densidade, pois a diferença é mísera.

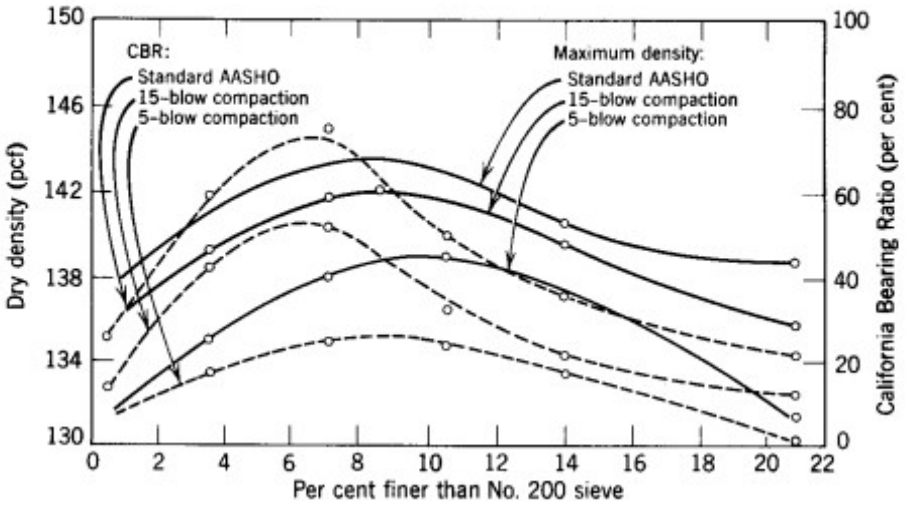

Figura 18: Variação da Densidade e CBR com a Variação de Finos(Cascalho) - Fonte: E.J.Yoder e M.W.Witczak- Principals of Pavement Design.

A distribuição Solo-Agregado é crucial, mas a resistência da estrutura é influenciada pelo formato das partículas. Partículas britadas têm mostrado melhor estabilidade em relação aos granulados redondos, devido ao acrescido entrelaçamento entre grãos. Além do atrito acrescido, o material britado apresenta maior Coeficiente de Permeabilidade conferindo melhor drenagem.

2.3.1 Crusher-Run (Tout-Venant/ Pedra Britada)

Trata-se de um material de granulometria densa, composto por agregados grossos resultantes da britagem, e finos que podem ter a mesma origem ou não, desde que sejam pouco ou nada plásticos. Essa composição possibilita que as camadas de sub-base e base atinjam altas densidades, baixa permeabilidade e o atrito necessário para atender as demandas.

Para as camadas de material britado, é indispensável a avaliação granulométrica e a resistência ao esmagamento. Assim sendo, é imperativo que os materiais apresentem o seguinte perfil:

Abertura da Malha (mm)	**Percentagem por Massa do Total do Agregado que Passa**		
	Dimensão Nominal Máxima		
	37,5 mm	25 mm	19 mm
50	100	-	-
37,5	95-100	100	-
25	70-80	80-90	100
19	60-80	70-85	90-100
9,5	40-55	50-65	60-75
4,75	25-40	35-50	40-60
2,36	15-30	25-40	30-45
0,425	7-19	12-24	13-27
0,075(1)	5-12	5-12	5-12

Tabela 3: Limites Granulométricos para Materiais do Tipo GCS1 (ANE-Manual de Dimensionamento de Pavimentos Flexíveis e Semi-rigidos)

Devido a presença de rochas com composições e origens diversas, foram estabelecidos valores mínimos de resistência para os materiais correspondentes, a fim de avaliar sua adequação na concepção de pavimentos padronizados. Os requisitos de aceitabilidade da região são os seguintes:

Precipitação Anual Típica (mm)	Valores Mínimo de Dez por Cento de Finos (KN)	Relação Mínima TFV Húmido/Seco (%)
>500	110	75
<500	110	60

Tabela 4: Requisitos de Resistência Mecânica(para Fracção do Agregado dos Materiais GCS1 e GCS2)- (ANE- Manual de Dimensionamento de Pavimentos Flexíveis e Semi-rigidos)

Uma vez que os materiais atendam aos requisitos, eles podem ser utilizados na execução das camadas do pavimento, sendo a única diferença entre elas o uso de material não plástico ou de baixa plasticidade.

Código	**TRH 4 Equivalente**	**Descrição**	**Resumo das Especificacções**
GCS1	G1 (Pedra Britada Graduada; Dimensão Máxima: 37,5 mm, PI <6)	Rocha Fresca e Britada	Granulometria Densa; Pedra Britada não Intemperizada;Finos não Plásticos
GCS2	G2 (Pedra Britada Graduada; Dimensão Máxima: 37,5 mm, PI <6)	Rocha Britada Temperizada, Material Granular/Material Granular ou Pedregulhos	Granulometria Densa; PI <6, Solo ou Finos; PP <60

Tabela 5: Caracterísitcas dos materiais de camada de base não ligados (ADAPTADO: ANE -Manual de Dimensionamento de Pavimentos Flexiveis e Semi-rigidos)

2.3.1.1 Critérios para Falha Estrutural

As camadas granulares deformam-se pela densificação e cisalhamento gradual que decorrem sob carregamento repetido. Assim sendo, a relação entre as tensões principais é determinante na avaliação do coeficiente de segurança.

2.3.1.2 Procedimentos Construtivos

A construção de bases de Crusher-run requer que o material respeite requisitos granulométricos, geométricos e resistentes, para que a transferência de tensões na camada ocorra sem deformações excessivas ao longo do período de vida útil.

O material utilizado para a base em Crusher-run deverá ser totalmente proveniente da britagem da rocha-mãe dura, sã, durável e não alterada. O material não deve conter nenhum material nocivo, como decomposição, matéria orgânica, pedaços de argila, xisto ou mica.

O material britado que atende aos requisitos é depositado em quantidade suficiente para garantir que a camada preenchida atinja as dimensões pré-estabelecidas, conquanto essa deverá estar em demasia para permitir que a aparagem configure uma superfície regular que respeite as inclinações. Posto isso o material é misturado de modo que se encontre uniformemente distribuida.

Garantida a distribuição desejada, o material é disposto na espessura e nível correcto e compactado. Esse procedimento frequentemente é feito por rolos compactadores, todavia havendo a possibilidade do uso de equipamento equivalente. As espessuras das camadas compactadas dependem do equipamento disponível. O uso de equipamento mais potente não significa necessariamente melhores resultados. A existência de estruturas adjacentes (Estruturas hidráulicas, Instalações eléctricas) podem limitar a potência das máquinas. Por tal razão, é recomendada a compactação de camadas de 150 a 200mm. A compactação é tomada como concluída apenas após a camada atingir a densidade seca in-situ e configuração geométrica adequada após a laminação.

No caso da camada exercer a função de base, para a construção da camada superior, a superfície deve ser tratada pela remoção de finos excedentes e acréscimo nas zonas em que esse material é deficiente. Finalizadas as correcções, a camada deverá ser novamente compactada

pelo compactador de cilindro liso para garantir uma superfície preenchida, firme e estável.

3. Metodologia

Para a metodologia do trabalho recorreu-se à três etapas: Dimensionamento, Simulação e Análise. O Dimensionamento foi feito tomando em consideração as normas da SATCC e a Simulação foi feita recorrendo ao software KENLAYER, que permite verificar o comportamento da estrutura. Posto isso, recorrendo aos critérios de Análise Mecanística da África do Sul, a interpretação dos dados foi feita.

3.1. Dimensionamento

Os pavimentos são dimensionados recorrendo às normas da SATCC, essas que fornecem directrizes das caracteristicas do pavimentos empregues na região. Os factores a tomar em consideração no dimensionamento dos pavimentos são o tráfego, condições climáticas, propriedades do subleito e os materiais utilizados na construção. Sendo o último factor o único que irá diferir nos dois pavimentos na camada de base e sub-base. Para o presente trabalho considerou-se um pavimento com capacidade de suprir um tráfego entre os 1.5MESAs a 3MESAs, numa região com precipitação inferior a 250mm anuais em que o leito de fundação possui um CBR de 16%.

3.2. Simulação (KENLAYER)

O KENLAYER - é um software aplicável à avaliação de pavimentos flexíveis sem juntas ou camadas rígidas. O programa baseia-se na avaliação das camadas elásticas sob uma área circular carregada. As soluções são subentendidas para múltiplos rodados, aplicando-se à interação de camadas não lineares, lineares, viscoelásticas e ao estudo da combinação de todos os tipos. A análise de danos pode ser feita em 12 períodos, sendo que cada um deles pode ter até 12 grupos de carregamento. Os danos causados por fadiga e deformação permanente em cada período são somados e levados em consideração para avaliar o tempo de vida útil.

Para a execução da simulação foram introduzidos como dados de entrada o número de camadas, módulos de elasticidade, superfícies de contacto, carregamentos, tipos de eixo e pontos de avaliação. Para determinar as deflexões, deformações e tensões principais que servem como dados para avaliação da capacidade do pavimento.

3.3. Análise

A metodologia utilizada foi a análise de dados colectados do software KENLAYER. O software KENLAYER é uma ferramenta de análise de pavimentos que permite obter deslocamento vertical, Tensão Vertical, tensão Radial, Tensão de Cisalhamento e Tensão Tangencial. Os dados colectados do software KENLAYER foram utilizados para avaliar o desempenho do pavimento quanto a deformação de camadas, número de repetições necessárias para atingir a falha estrutural e a variação do comportamento com a intensificação da acção.

3.3.1. Solo-Cimento

De modo a permitir a avaliação das camadas de solo-cimento, recorreu-se ás Fórmulas para determinação das funções de transferência para a determianar Fadiga, Início de Esmagamento e Esmagamento Avançado.

Para determinar o número de repetições para atingir a falha por Fadiga, NeffB, usou-se a seguinte fórmula:

$$\mathrm{NeffB} = 10^{6.72 * \left(1 - \frac{\epsilon}{7.49 * \epsilon_b}\right)} * \mathrm{SF}$$

Para determinar o número de repetições para atingir o esmagamento inicial, Nci, e o esmagamento avançado, Nca, recorreu-se à seguinte fórmula:

$$\mathrm{Nc_{iB}} = 10^{7.506 * \left(1 - \frac{\sigma_V}{1.1 * \mathrm{ucs}}\right)}, \quad \mathrm{Nc_{aB}} = 10^{8.184 * \left(1 - \frac{\sigma}{1.2\,\mathrm{ucs}}\right)}$$

3.3.2. Crusher-Run

Para avaliação da camada granular ao cisalhamento, a função de transferência, NB, recorreu-se à seguinte fórmula:

$$\mathrm{F} = \frac{\sigma_3 * \phi\mathrm{term} + \mathrm{Cterm}}{\sigma_1 - \sigma_3}$$

$$\mathrm{NB} = 10^{(2.605122\,\mathrm{F} + 3.707667)}$$

4. Resultados e Discussão

4.1. Resultados

4.1.1. Dimensionamento

O dimensionamento limitou-se em variar os materiais de bases, diferindo apenas as sub-bases. Sendo num caso base de solo-cimento e noutro de crusher-run (pedra britada). Avaliadas as condições e acções que agem no pavimento em estudo e recorrendo ao catálogo de dimensionamento da SATCC, as seguintes dimensões são atribuídas para as diferentes camadas (T4/S5):

Camada	Solo-Cimento/Solo-Cimento (SC)	Granular/Solo-Cimento (GR12.5)
Revestimento	SD	SD
Base	15cm	12.5cm
Sub-Base	15cm	15cm

Tabela 6: Dimensões recomendadas pela SATCC.

Com o objectivo de melhor compreensão, além das dimensões recomendadas pela SATCC, avaliou-se um pavimento com base granular de 15 cm de sub-base e 15 cm de solo-cimento, GR15, para verificar a disparidade entre os diferentes materiais quando usados em proporções similares.

4.1.2. Simulação

De modo a avaliar as possíveis variáveis e os pavimentos como se comportam, foi feita a análise para quatro tipos de eixos e para três carregamentos sendo de 520KPa, 600KPa e 700KPa. Os eixos em menção são o Eixo Simples com uma Roda simples e Rodado Duplo; Eixo Tandem com Rodado Duplo e Eixo Trindem com Rodado Duplo. Os módulos de elasticidade foram assumidos em função dos materiais, entretanto no presente estudo não se tomou em consideração a variação dos módulos dos materiais em função do tempo mesmo para os materiais cimentados na sua segunda fase, em que os materiais apresentam módulos baixos.

Os resultados de simulação foram apresentados a seguir em função das camadas analisadas:

4.1.2.1. Tensões

a. Topo do Revestimento e Topo da Camada de Sub-base na Direcção Transversal

São nas figuras abaixo apresentados os comportamentos dos três pavimentos de materiais diferentes conforme indicado na tabela 6 (CS, GR12 e GR15) quando sujeitos a três cargas (520 Kpa, 600 Kpa e 700KPa) para o eixo simples com rodado duplo (figura 19), eixo tandem com rodado duplo (figura 20) e eixo trindem com rodado duplo (figura 21), respectivamente.

Da simulação constata-se que as tensões verticais diminuem com a profundidade e são mais gravosos nos pontos de aplicação de carga sendo mais altas nas superfícies de revestimento e ao mesmo tempo diminuem a medida que se afasta do ponto de aplicação de carga.

Comparando os comportamentos dos três pavimentos, nota-se que o pavimento constituido por base de solo-cimento (CS) é o que apresenta menores tensões verticais máximas no topo da sub-base em relação aos pavimentos GR12 e GR15. Todavia, notou-se a medida que se afasta do ponto de aplicação de carga o pavimento CS continua a manter tensões verticais mais altas no topo da sub-base do que o GR12 e GR15.

O pavimento de base de crusher-run de 12,5 cm (GR12) é o que transferiu maiores tensões ao topo da sub-base. Portanto, a diferença de 2,5 cm nas bases granulares corresponde a aproximadamente 11% de diferença nas Tensões Verticais no topo da sub-base. Os gráficos abaixo baseiam-se nos relatórios nos Anexos B.

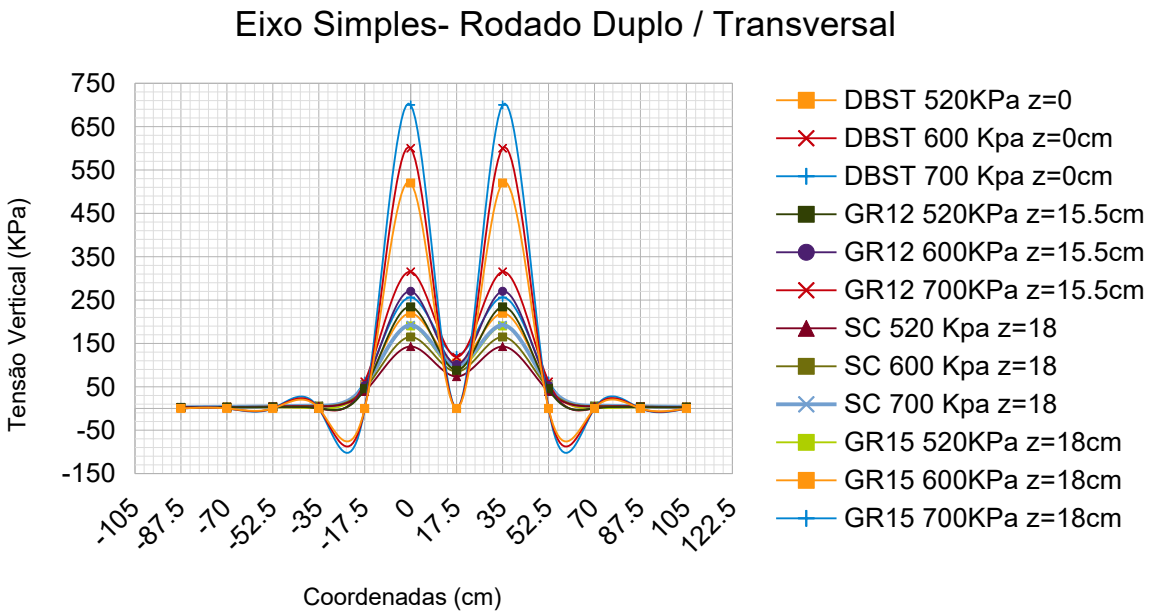

Figura 19: Gráfico das Tensões no Topo da Sub-Base sob efeito de um Eixo Simples - Rodado Duplo. Eixo YY/ Transversal.

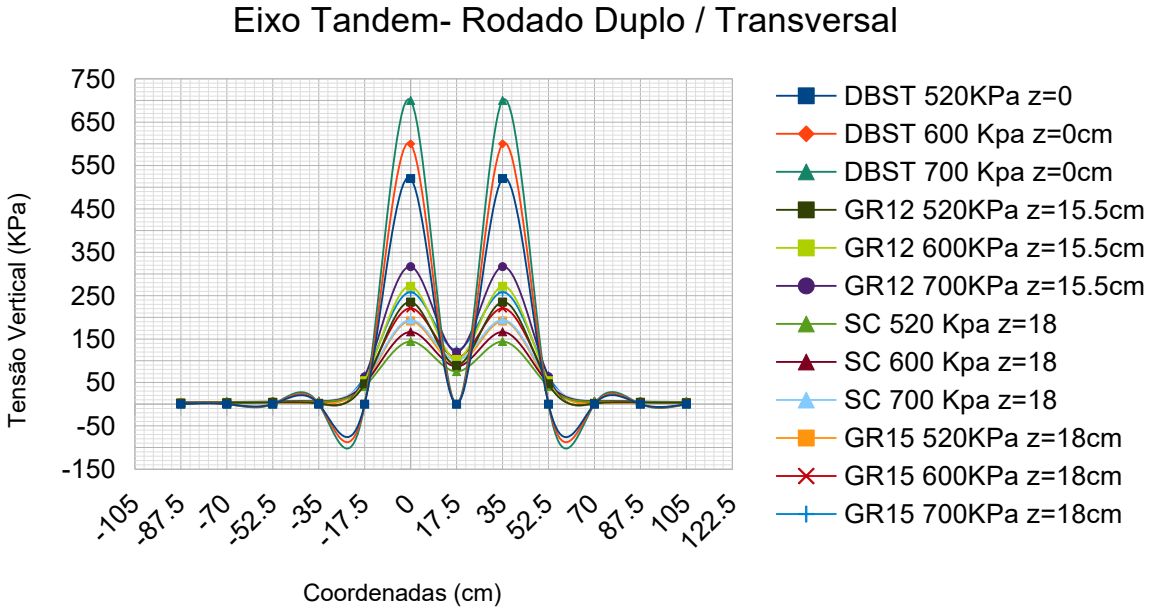

Figura 20: Gráfico das Tensões no Topo da Sub-Base sob efeito de um Eixo Tandem - Rodado Duplo. Eixo YY/ Transversal.

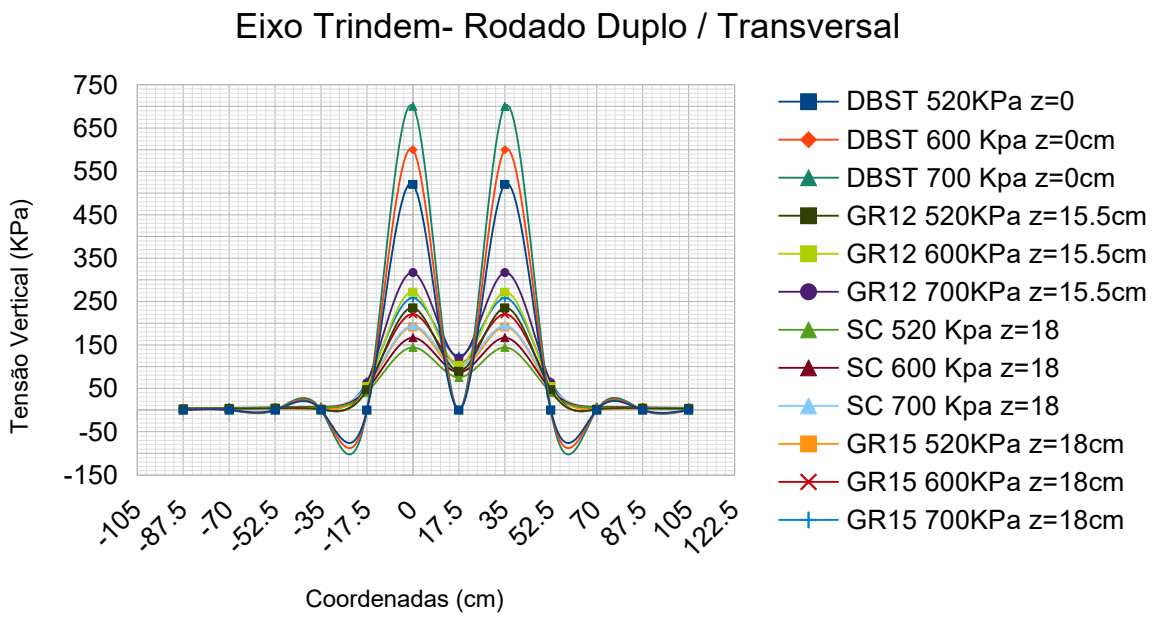

Figura 21: Gráfico das Tensões no Topo da Sub-Base sob efeito de um Eixo Trindem - Rodado Duplo. Eixo YY/ Transversal.

b. Topo do Revestimento e Topo da Camada de Sub-base na Direcção Longitudinal

São nas figuras abaixo apresentados os comportamentos dos três pavimentos de materiais diferentes conforme indicado na tabela 6 (CS, GR12 e GR15) quando sujeitos a três cargas (520 Kpa, 600 Kpa e 700KPa) para o eixo simples com rodado duplo (figura 22), eixo tandem com rodado duplo (figura 23) e eixo trindem com rodado duplo (figura 23), respectivamente.

Da simulação constacta-se que as tensões verticais diminuem com a profundidade e são mais gravosos nos pontos de aplicação de carga sendo mais altas nas superfícies de revestimento e ao mesmo tempo diminuem a medida que se afasta do ponto de aplicação de carga. Especialmente da avaliação, notou-se que o rodado central do eixo trindem atingiu maiores tensões verticais no topo da sub-base atingindo 28% da tensão vertical actuante nos pavimento SC, 45,9% no pavimento GR12 e 37,1% no pavimento GR15.

Comparando os três pavimentos o comportamento é similar ao constatado na análise transversal, sendo que o pavimento composto pela base de maior rigidez (SC) apresenta menor tensão vertical máxima.

Os gráficos abaixo baseiam-se nos relatórios nos Anexos B.

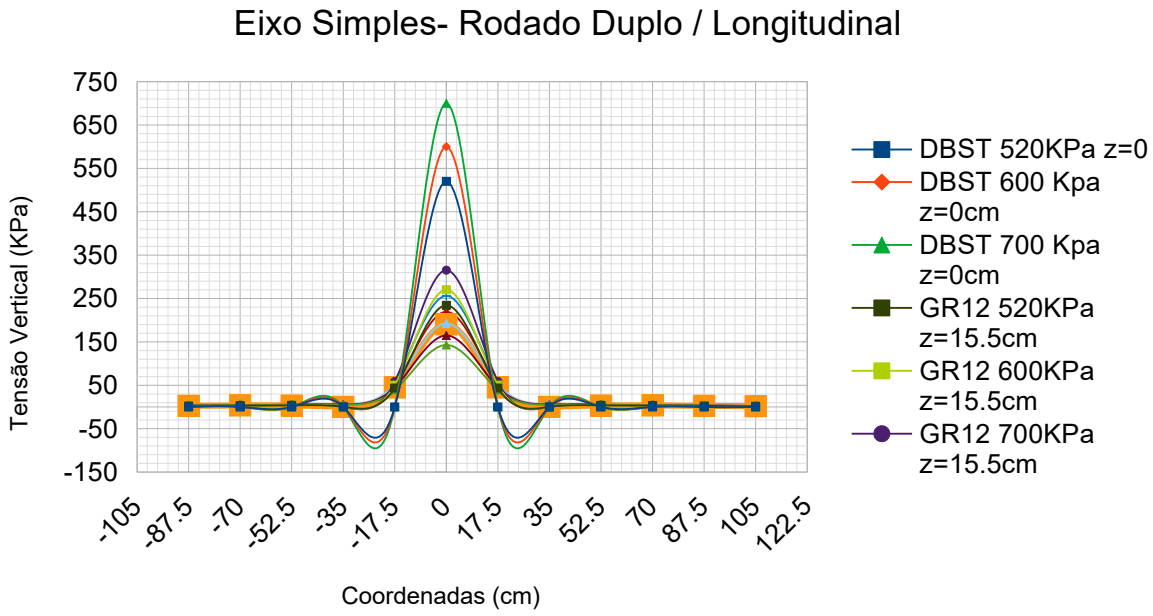

Figura 22: Gráfico das Tensões no Topo da Sub-Base sob efeito de um Eixo Simples - Rodado Duplo. Eixo XX/ Longitudinal.

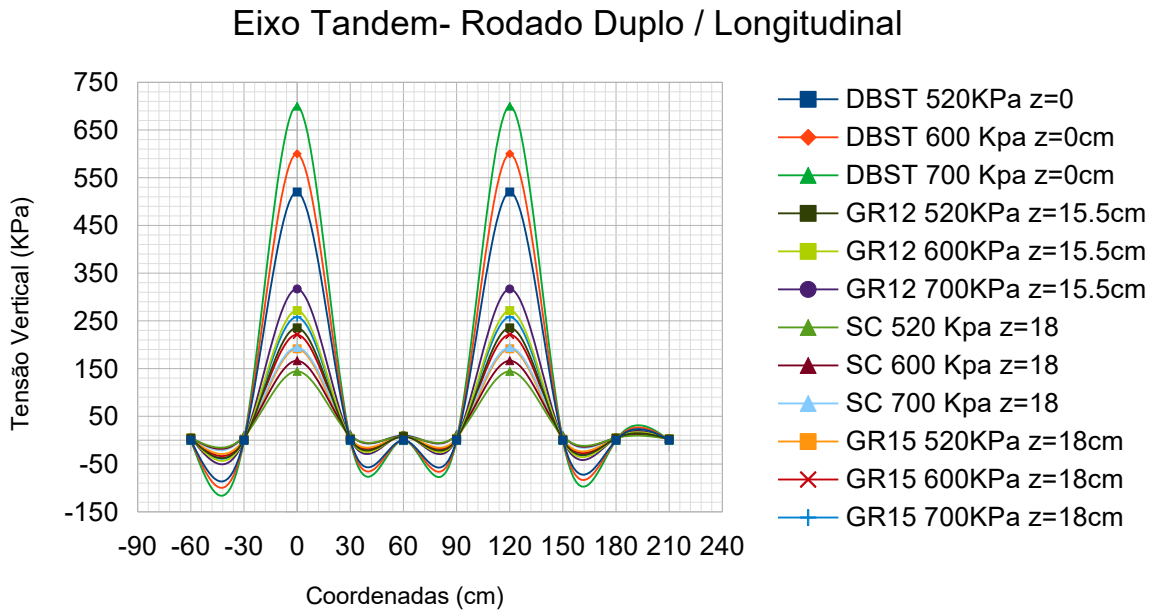

Figura 23: Gráfico das Tensões no Topo da Sub-Base sob efeito de um Eixo Tandem - Rodado Duplo. Eixo XX/ Longitudinal.

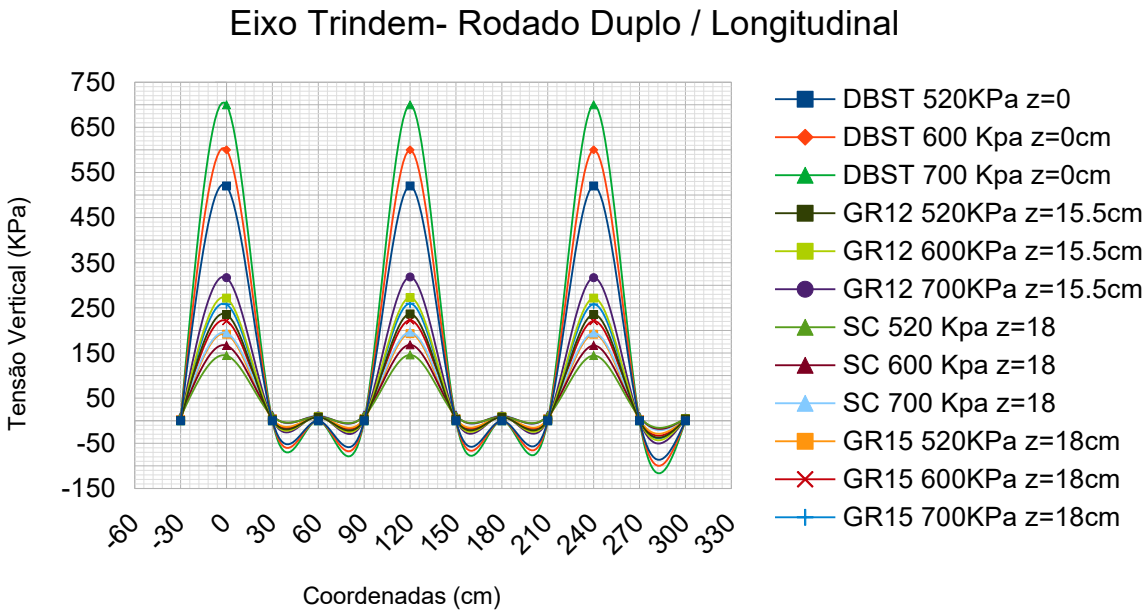

Figura 24: Gráfico das Tensões no Topo da Sub-Base sob efeito de um Eixo Trindem - Rodado Duplo. Eixo XX/ Longitudinal..

c. Topo do Subleito na Direcção Transversal

São nas figuras abaixo apresentadas as tensões verticais sob os três pavimentos (topo de subleito) quando sujeitos a três cargas (520 Kpa, 600 Kpa e 700KPa) para o eixo simples com uma roda (figura 25), eixo simples com rodado duplo (figura 26), eixo tandem com rodado duplo (figura 27) e eixo trindem com rodado duplo (figura 28), respectivamente.

Segundo os gráficos abaixo, os pontos de contacto são os que apresentam as maiores tensões na superfície do subleito e, ao se distanciar dessas coordenadas, as tensões diminuem. Contudo no topo do subleito as tensões verticais quase não se visualizam. O pavimento SC é o que apresenta melhor desempenho, sendo que as tensões verticais no topo do subleito não ultrapassam os 3.66% da carga actuante, enquanto o GR15 permitiu a transmissão até os 4.4% e os GR12, 4.8% das acções actuantes sobre si.

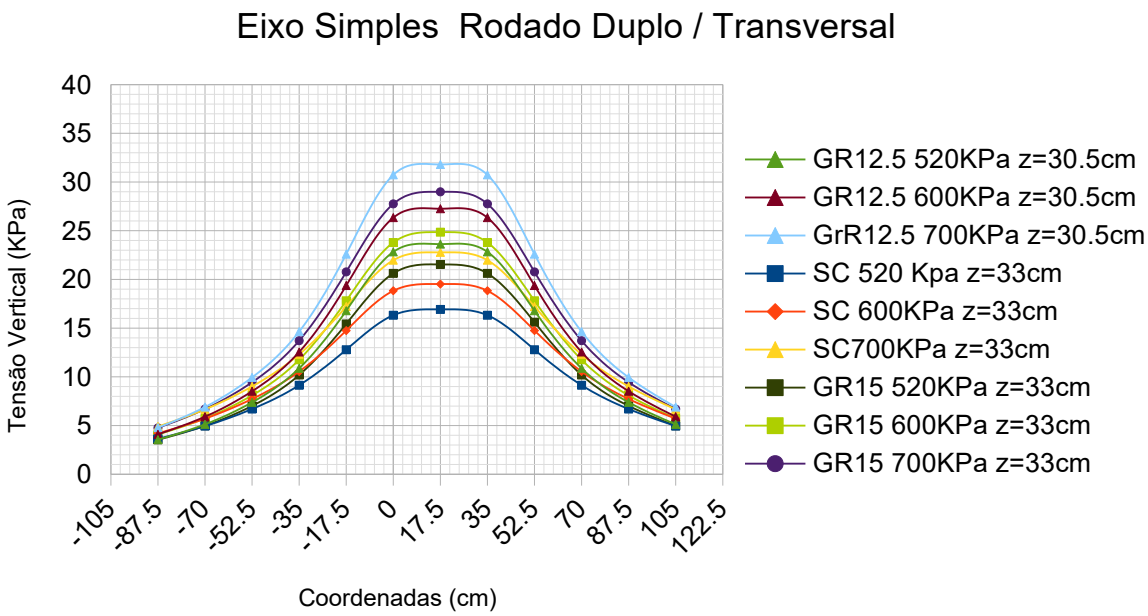

Figura 25: Gráfico de Tensões no Topo do Subleito - Eixo Simples Rodado Duplo. Eixo YY.

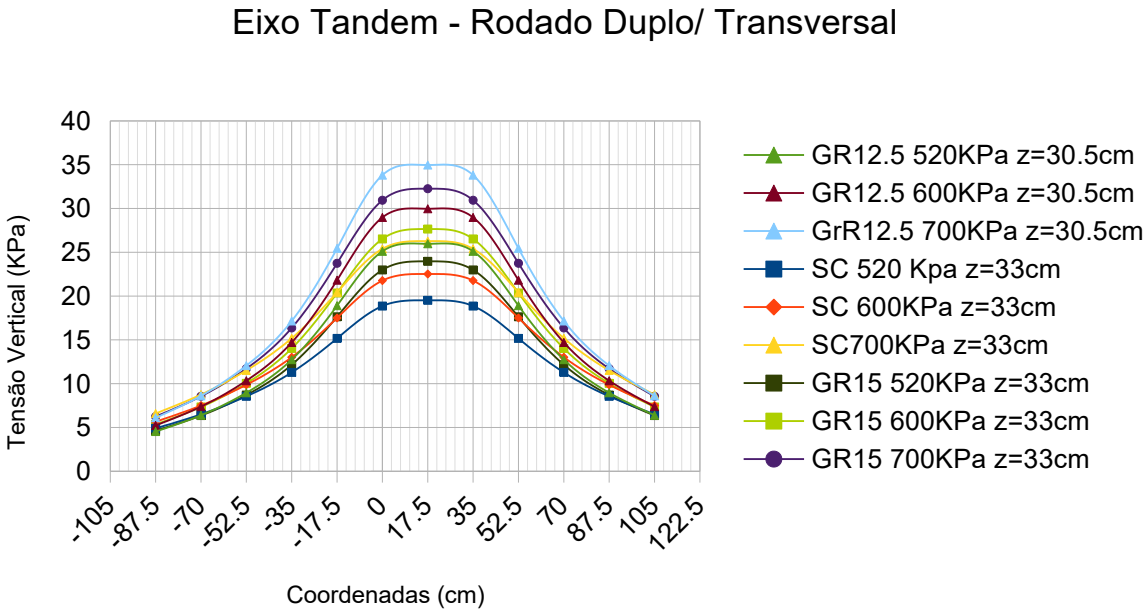

Figura 26: Gráfico de Tensões no Topo do Subleito - Eixo Tandem Rodado Duplo. Eixo YY.

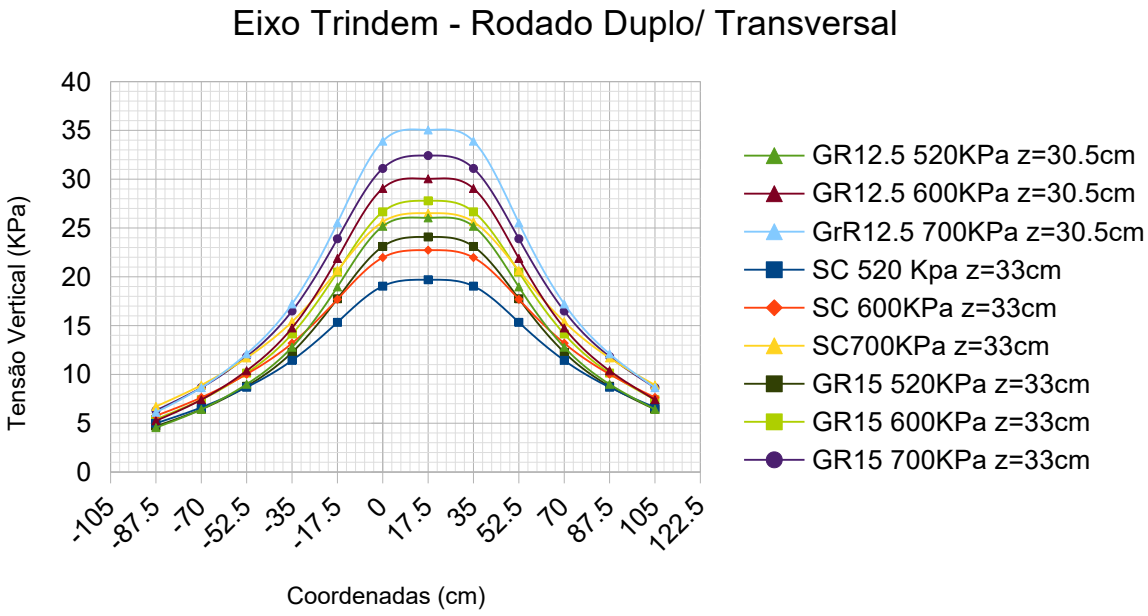

Figura 27: Gráfico de Tensões no Topo do Subleito - Eixo Trindem Rodado Duplo. Eixo YY.

d. Topo do Subleito na Direcção Longitudinal

São nas figuras abaixo apresentadas as tensões verticais sob os três pavimentos (topo de subleito) quando sujeitos a três cargas (520 Kpa, 600 Kpa e 700KPa) para o eixo simples com rodado duplo (figura 28), eixo tandem com rodado duplo (figura 29) e eixo trindem com rodado duplo (figura 30), respectivamente.

Segundo os gráficos abaixo, os pontos de contacto são os que apresentam as maiores tensões na superfície do subleito e, ao se distanciar dessas coordenadas, as tensões diminuem. Contudo no topo do subleito as tensões verticais quase não se visualizam.

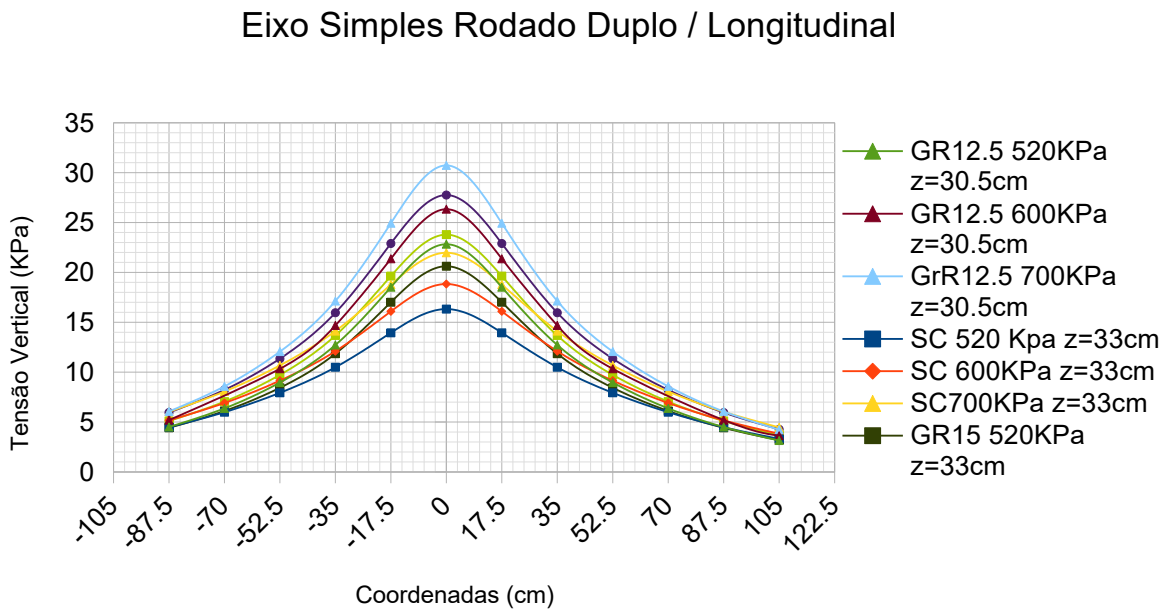

Figura 28: Gráfico de Tensões no Topo do Subleito - Eixo Simples Rodado Duplo (Longitudinal)

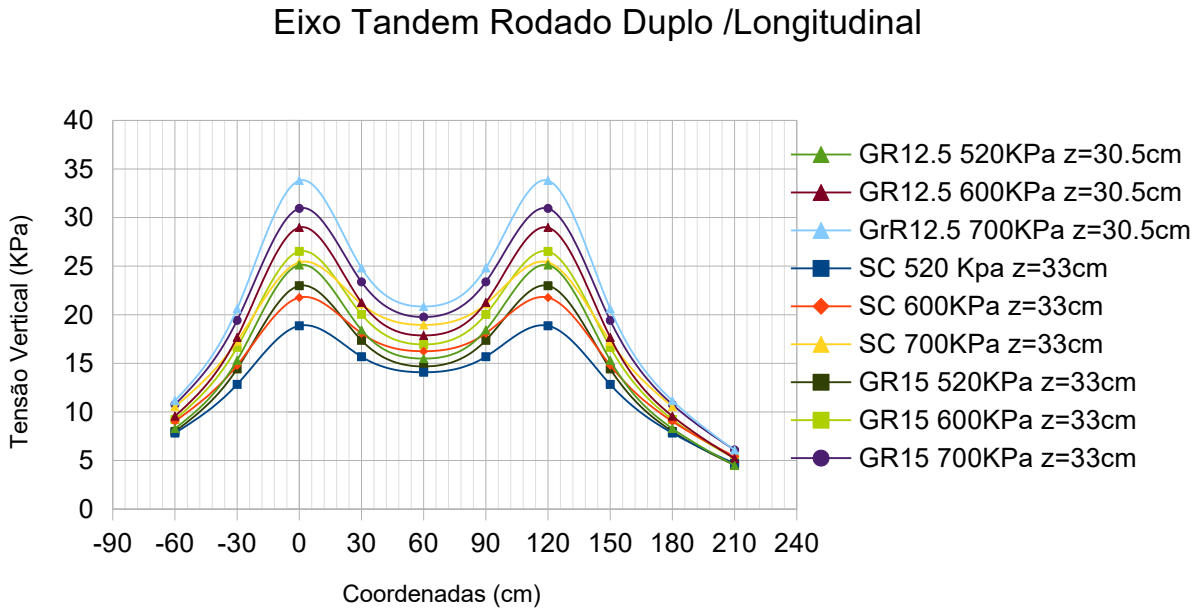

Figura 29: Gráfico de Tensões no Topo do Subleito - Eixo Tandem Rodado Duplo (Longitudinal).

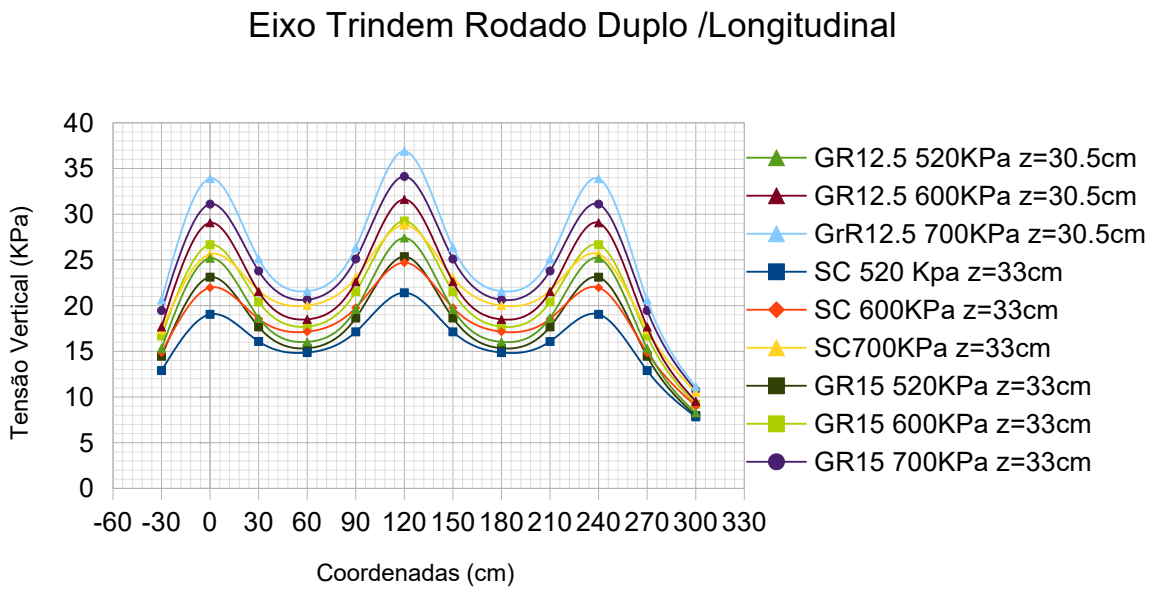

Figura 30: Gráfico de Tensões no Topo do Subleito - Eixo Trindem Rodado Duplo (Longitudinal).

4.1.2.2. Deflexões

a. Topo do Revestimento – Análise Transversal

Os gráficos que se seguem apresentam as deflexões no topo da camada de revestimento no eixo YY sob acção de diferentes carregamentos (520 Kpa, 600K Pa e 700 Kpa), sendo a figura 31 referente ao efeito de um eixo simples com rodado duplo, a figura 32 a de um eixo tandem com rodado duplo e a figura 33 a de um eixo trindem com rodado duplo.

Pelo que se constatou nas simulações, as máximas deflexões ocorrem nos pontos de contacto, amenizando ao se distanciar desses. O pavimento SC apresenta menores deflexões, seguido do GR15.

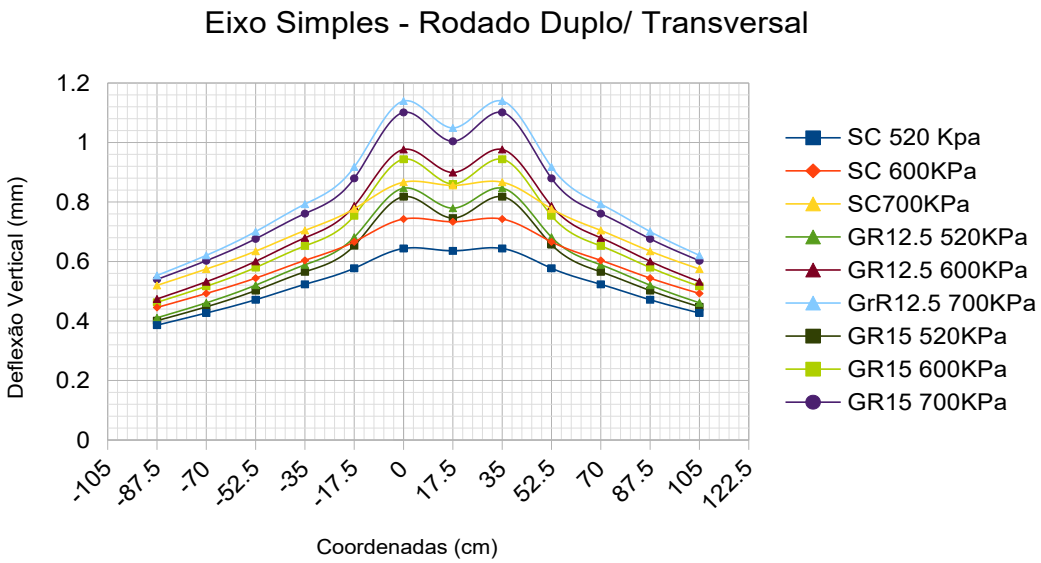

Figura 31: Gráfico da Deflexão Superficial (Topo do Revestimento) sob acção de Eixo Simples com Rodado Duplo. Eixo YY/ Transversal.

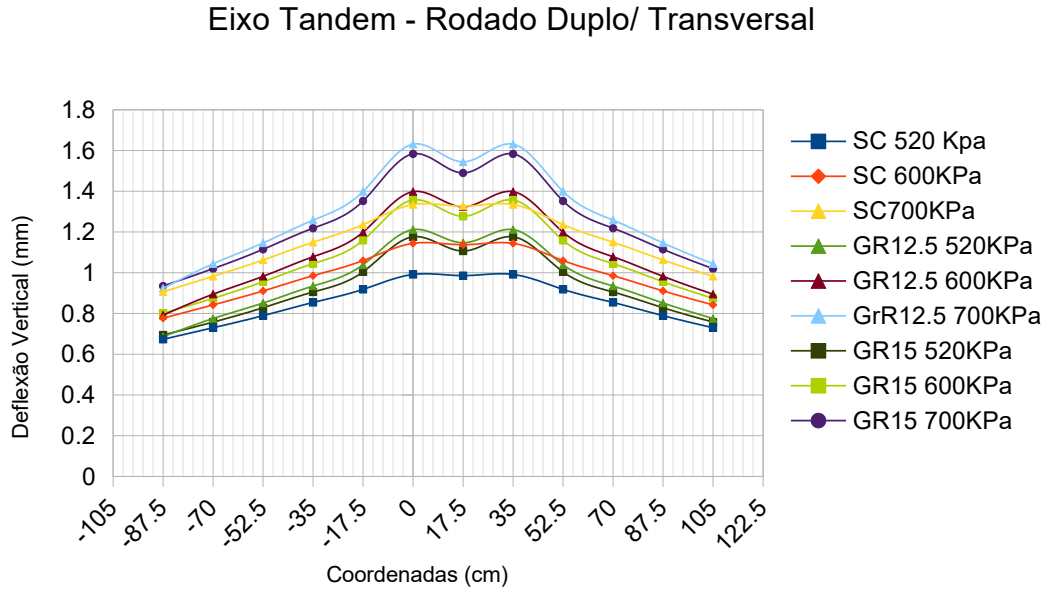

Figura 32: Gráfico da Deflexão Superficial (Topo do Revestimento) sob acção de Eixo Tandem com Rodado Duplo. Eixo YY/ Transversal.

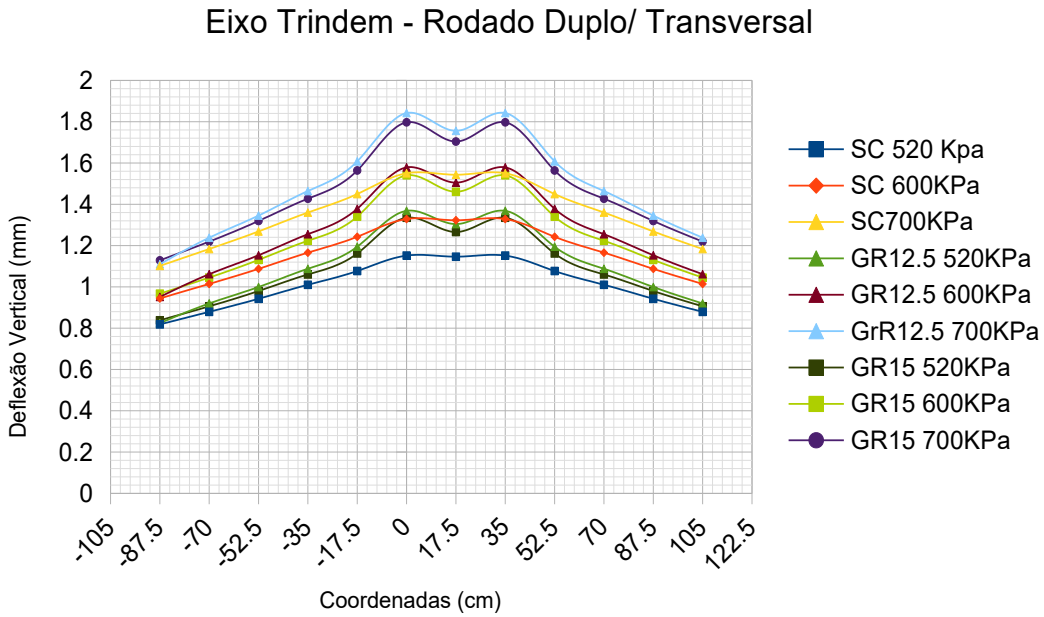

Figura 33: Gráfico da Deflexão Superficial (Topo do Revestimento) sob acção de Eixo Trindem com Rodado Duplo. Eixo YY/ Transversal.

b. Topo do Revestimento – Análise Longitudinal

Os gráficos que se seguem apresentam as deflexões no topo da camada de revestimento no eixo XX sob acção de diferentes carregamentos (520 Kpa, 600K Pa e 700 Kpa), sendo a figura 34 referente ao efeito de um eixo simples com rodado duplo, a figura 35 a de um eixo tandem com rodado duplo e a figura 36 a de um eixo trindem com rodado duplo.

A semelhança do verificado na análise transversal as deflexões máximas ocorrem nas áreas de contacto e reduzem ao se distanciar desses.

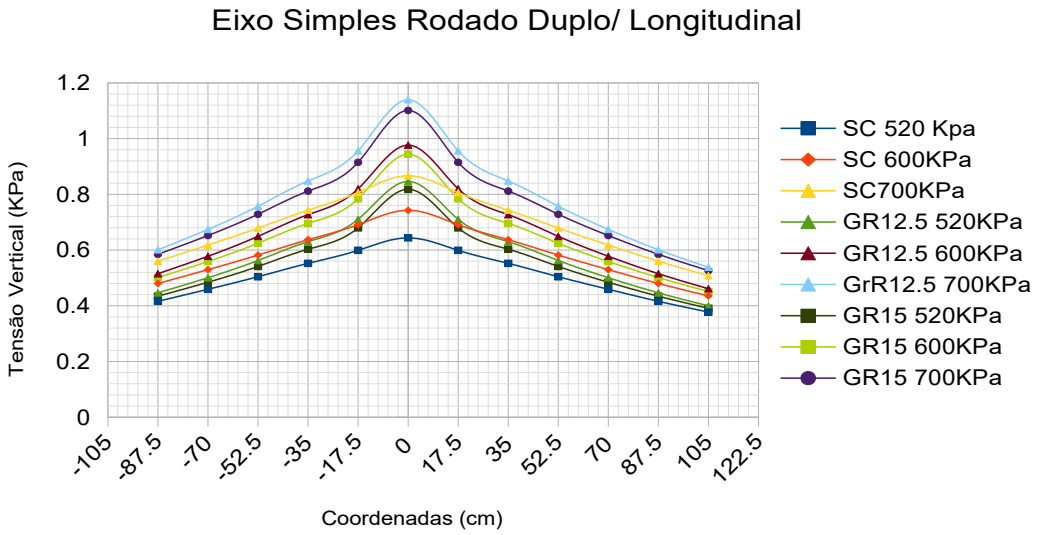

Figure 34: Gráfico da Deflexão Superficial (Topo do Revestimento) sob acção de Simples com Rodado Duplo. Eixo XX/ Longitudinal.

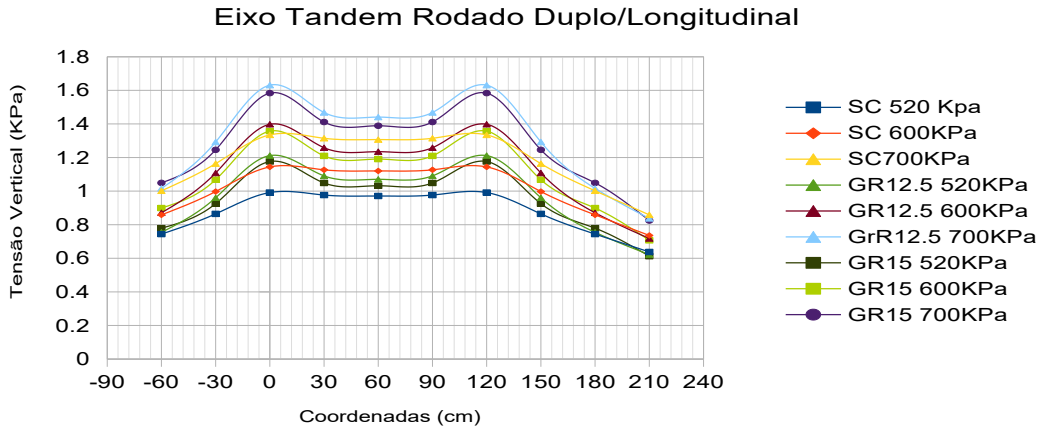

Figura 35: Gráfico da Deflexão Superficial (Topo do Revestimento) sob acção de Tandem com Rodado Duplo. Eixo XX/ Longitudinal.

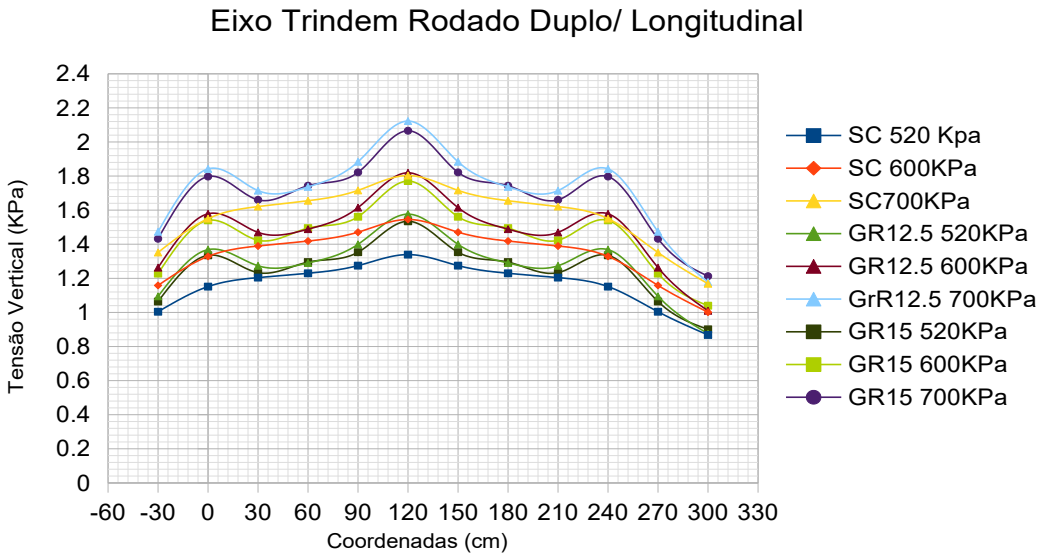

Figura 36: Gráfico da Deflexão Superficial (Topo do Revestimento) sob acção de Trindem com Rodado Duplo. Eixo XX/ Longitudinal.

4.1.2.3. Deformações Permanentes

De acordo com Rombe (2014) (citando Diogo, 2007; Lytton, Uzan, Fernando, Hiltunen, Roque e Stoffels 1993) até a data, a maioria das pesquisas sobre a estimativa de deformação permanente nos pavimentos asfálticos tem sido baseada em uma abordagem de deslocamento de camadas, e, em certo modo dependente da propriedade viscoelástica do material asfáltico A deformação total no pavimento asfáltico pode ser calculada pela equação abaixo e define-se como sendo a soma de deformações de camadas individuais ao longo de toda profundidade.

$$RD_{Total} = RD_{AC} + RD_{B} + \ldots + RD_{SG}$$

RDTotal: Deformação Permanente dos Pavimento;

Rdac; Rdb; Rdsg: Deformação permanente para o asfalto; base e sub-base respectivamente.

As tabelas que se seguem referem-se às deformações permanentes máximas nos pavimentos em estudo (SC, GR12 e GR15) sob efeito de diferentes carregamentos (520 Kpa, 600 Kpa e 700 Kpa). Os anexos C apresentam mais detalhes referentes as deformações ao longo das coordenadas em estudo.

Eixo Simples uma roda (0;0)			
Carga actuante	SC	GR12	GR15
520 Kpa	0.0516	0.1204	0.1303
600 Kpa	0.0595	0.1389	0.1503
700 Kpa	0.0694	0.1621	0.1753

Tabela 7: Deformações permanentes máximas nos pavimentos sob eixo simples com uma roda.

Eixo Simples com rodado duplo (0;0)			
Carga actuante	SC	GR12	GR15
520 Kpa	0.051	0.1257	0.1359
600 Kpa	0.0589	0.145	0.1568
700 Kpa	0.0685	0.1692	0.1829

Tabela 8: Deformações permanentes máximas nos pavimentos sob eixo simples com rodado duplo.

Eixo Tandem com rodado duplo (0;0)			
Carga actuante	SC	GR12	GR15
520 Kpa	0.0605	0.1632	0.1691
600 Kpa	0.0697	0.1883	0.1952
700 Kpa	0.0814	0.2197	0.2277

Tabela 9: Deformações permanentes máximas nos pavimentos sob eixo tandem com rodado duplo.

Eixo Trindem com rodado duplo (120;0)			
Carga actuante	SC	GR12	GR15
520 Kpa	0.0863	0.2007	0.2024
600 Kpa	0.0997	0.2316	0.2335
700 Kpa	0.1162	0.2702	0.2724

Tabela 10: Deformações permanentes máximas nos pavimentos sob eixo trindem com rodado duplo.

4.1.2.4. Durabilidade

O Número de Transferência das camadas foi determinado considerando os menores Números de Transferência das camadas constituintes. Na determinação do número de passagens dos pavimentos, foram avaliados os eixos simples com rodado duplo, tandem com rodado duplo e trindem com rodado duplo sob diferentes carregamentos.

O Número de Transferência para as camadas de solo-cimento quanto ao esmagamento foi determinado na coordenada (0;0), e a fadiga, através da maior deformação devido à tracção. O Número de Transferência das camadas de crusher-run para o cisalhamento foi determinado a meia altura da camada na coordenada (-17,5;0).

Os gráficos abaixo apresentam a variação dos números de transferência das camadas constituintes, evidenciando a redução dos mesmos com o aumento das tensões e eixos, especialmente ao esmagamento nas camadas de solo-cimento.

É notável que o pavimento com base de solo-cimento é o que atinge a falha estrutural mais cedo, em grande parte dos casos devido ao esmagamento inicial, e, nos casos mais graves, atinge o esmagamento avançado antes da fadiga.

A sub-base que apresentou o melhor desempenho é a que está sob a camada granular de 15 centímetros de espessura, mesmo esta transmitindo maiores tensões do que a base de solo-cimento. A disparidade deve-se ao facto de as sub-bases de solo-cimento serem de classes diferentes, o que influencia a resistência ao esmagamento e à fadiga.

Os detalhes referentes aos Números de Transferência são os apresentados nos Anexos D.

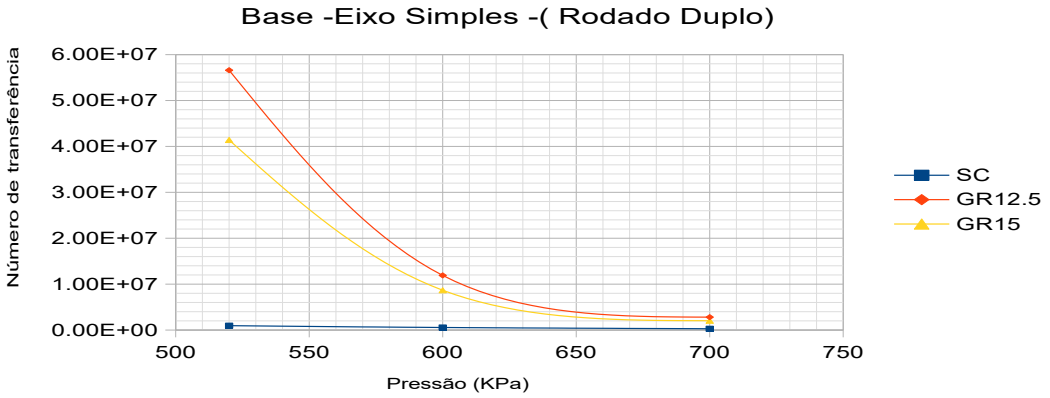

Figura 37: Gráfico do Número de Transferência de Base sob efeito de Eixo Simples com Rodado Duplo.

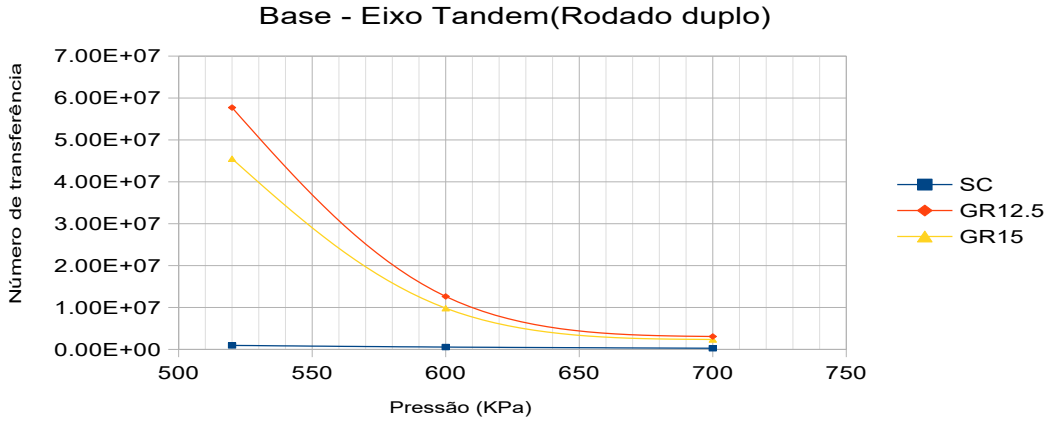

Figura 38: Gráfico do Número de Transferência de Base sob efeito de Eixo Tandem com Rodado Duplo.

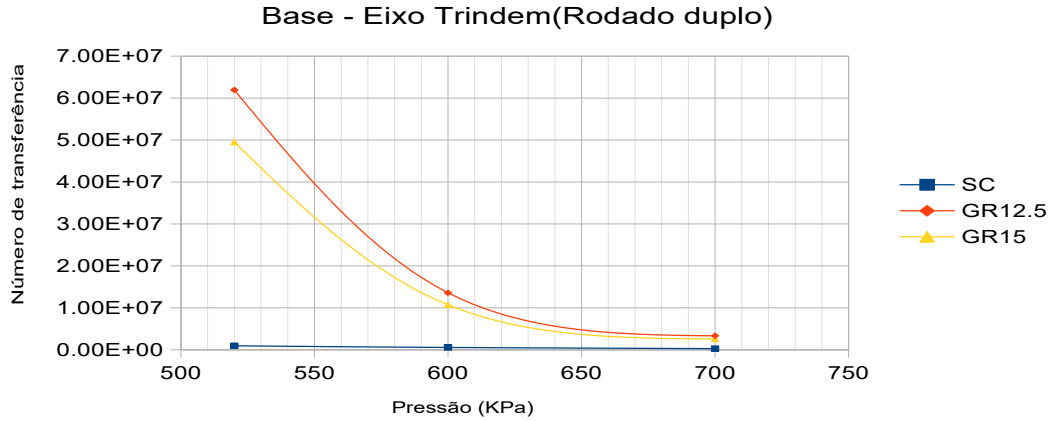

Figura 39: Figura 33: Gráfico do Número de Transferência de Base sob efeito de Eixo Trindem com Rodado Duplo.

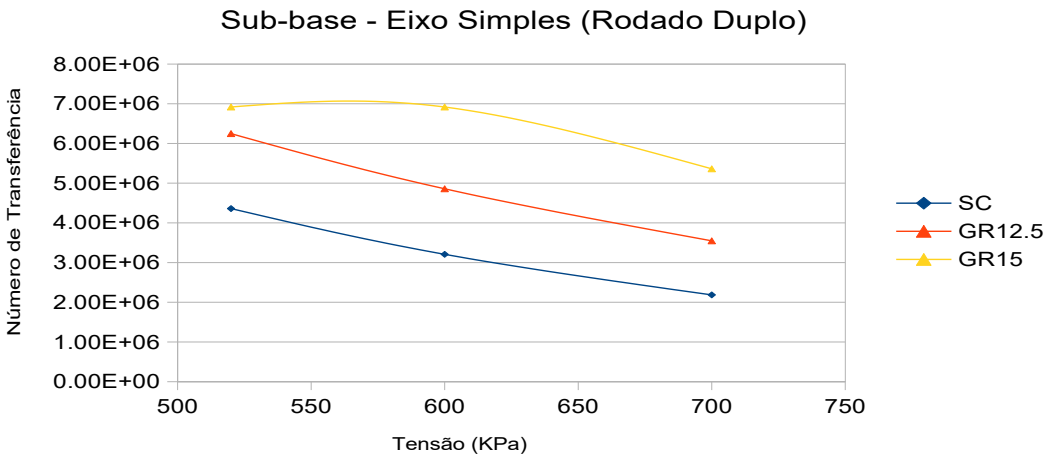

Figura 40: Gráfico do Número de Transferência de Sub-Base sob efeito de Eixo Simples com Rodado Duplo.

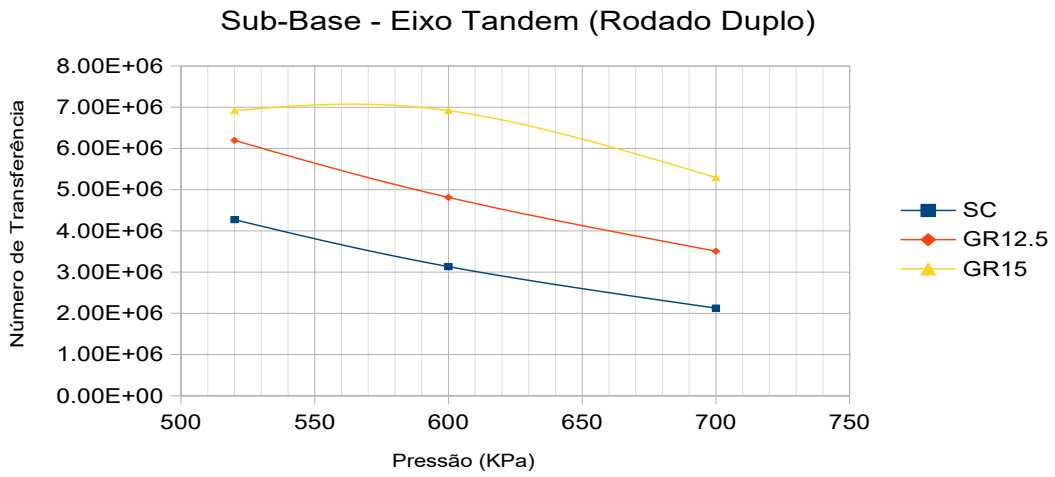

Figura 41: Gráfico do Número de Transferência de Sub-Base sob efeito de Eixo Tandem com Rodado Duplo.

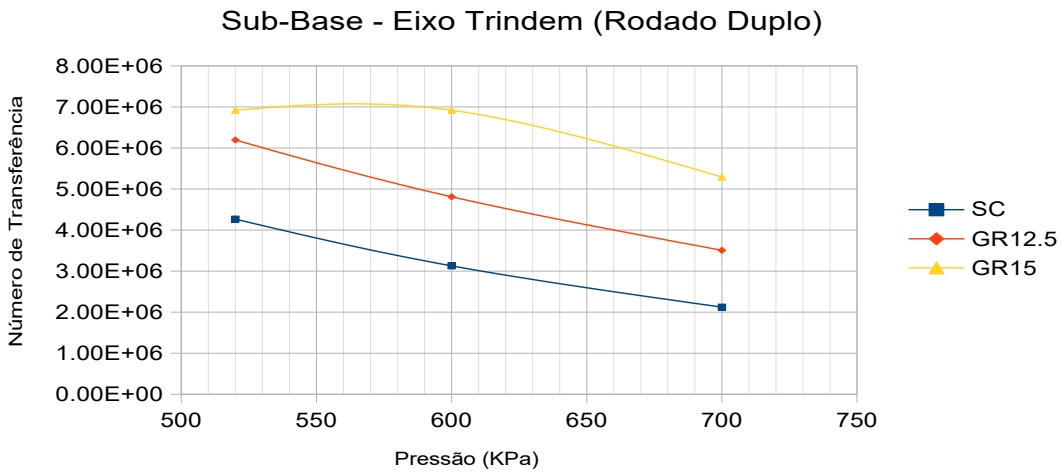

Figura 42: Gráfico do Número de Transferência de Sub-Base sob efeito de Eixo Trindem com Rodado Duplo.

4.2. Discussão dos Resultados

As camadas cimentadas apresentam duas fases; entretanto, por limitações na avaliação de camadas granulares, foi discutida apenas a Fase 1. As camadas cimentadas apresentam menores Números de Transferência referentes ao esmagamento. Entretanto, essas camadas, por serem as que apresentam maiores Módulos de Elasticidade, são as que dissipam melhor as tensões e deformam-se menos.

Entre os pavimentos dimensionados, o SC foi o que transferiu menos tensões ao subleito, seguido do GR15.

Os Números de Transferência a Fadiga das camadas cimentadas não apresentaram variação significativa em todas as camadas sob os diferentes carregamentos, desempenhando o papel de camada de base ou Sub-base. Todavia, o comportamento não foi similar na durabilidade quanto ao Esmagamento, especialmente ao exercer a função de base.

Aferindo que a Sub-base de Solo-cimento de Classe C4 foi a que apresentou menor Número de Transferência em relação ao Esmagamento devido ao UCS inferior ao da Classe C3. Por essa razão, mesmo sujeito a menores tensões verticais, o mesmo tem menor tempo de vida.

A determinação do número de transferência ao cisalhamento é limitada quando os dados são obtidos através da análise linear. A existência de tensões negativas nas camadas granulares influenciam significativamente os coeficientes de segurança, estabelecendo que, em alguns pontos, não haja resistência alguma às ações. A manipulação de dados para evitar tensões principais negativas reduz esse tipo de cenário.

Relativamente às camadas granulares, a que possui maior espessura foi a que apresentou menor tempo de vida útil e maiores deformações. Entretanto, as falhas estruturais limitaram-se a ocorrer na camada de base, ao ponto de que a camada de sub-base incrementou sua longevidade pela amenização do esmagamento.

Em linhas gerais, para a Fase 1, pode-se deduzir o seguinte comportamento das bases em estudo:

	Solo-cimento	Granular 12.5cm	Granular 15cm
Deformação	Menor	Intermédio	Maior
Número de Transferência	Menor	Maior	Intermédio
Absorção de Tensões	Maior	Menor	Intermédio

Tabela 11: Comparação de Desempenho dos Pavimentos.

O pavimento inteiramente constituido por Camadas de Solo-cimento é o que apresentou menores deformações. Seguido pelo composto por Base Granular de menor espessura.

5. Conclusões e Recomendacções

5.1. Conclusões

O presente trabalho abordou a avaliação do comportamento de três pavimentos, sendo dois dimensionados segundo as recomendações da SATCC e o outro com dimensões similares ao que possuía camadas mais espessas para avaliar a equivalência. Os pavimentos foram avaliados considerando o comportamento linear-estático e com as quantificações das reacções determinou-se o Número de Transmissão que determina a proximidade à falha estrutural dos pavimentos e das camadas que os compõem.

O uso da South Africa Mechanistic Pavement Design foi de extrema importância pois permitiu determinar os tipos de falha estrutural que as camadas em estudo estão sujeitas, suas quantificações e identificar as limitações da avaliação pelo procedimento linear-elástico mecanístico. O trabalho teve como principal objectivo avaliar o desempenho das camadas. Assim sendo, no presente trabalho foi possível chegar as seguintes conclusões:

- As camadas de solo-cimento são mais eficientes na absorção e dissipação de tensões;
- Para prolongar o Tempo de Vida dos pavimentos com Camadas de Solo-cimento é importante avaliar o comportamento residual das camadas cimentadas;
- As Camadas Granulares são mais duráveis que as de Solo-cimento;
- A Camada Granular é sensível aos Esforços de Tracção, fazendo com que esses esforços reduzam o seu Tempo de Vida Efetivo;
- O aumento de eixos reduz o tempo de vida das Sub-bases de Solo-cimento no quesito Esmagamento pela sobreposição de efeitos;
- A avaliação pelo Método Linear-elástico recorrendo ao software KENLAYER é limitada para avaliação do cisalhamento em Camadas Granulares;
- As Camadas Granulares podem ser recicladas;
- O factor de segurança das camadas granulares são afectados na existência de tensões principais negativas;

- A construção de Camadas de Solo-cimento é desafiante, pois deve ser feita em tempo limitado e controlando os teores de água em uso. A incorrecta avaliação da extensão e da dosagem de água pode comprometer a qualidade da actividade;
- A presença de fissuras nas camadas estabilizadas com cimento estão sujeitas a fissuração. É desejavel a existência de fissuras distantes, para que a camada funcione em blocos;
- As propriedades dos materiais são determinantes na durabilidade.

5.2. Recomendações

Após a conclusão dos estudos, as seguintes recomendacções são sugeridas:

- Avaliação das camadas recorrendo a sistemas não lineares;
- Realização de Workshops para troca de experiências;
- Monitoramento dos pavimentos e devido registo para permitir estudos realísticos;
- Visitas ao local na fase de elaboração de projecto;
- Aproximar dos Técnicos de Materiais, Topografia, Laboratório, Terraplanagem e demais especialidades que irá encontrar para colher as experiências ímpares. Avaliar cada comentário e relacionar com a literatura;
- Estudo de procedimentos associados que possam melhorar a longevidade de Solo-Cimento e avaliação de estabilizantes alternativos;
- Recorrer a ferramentas computacionais para prever os efeitos dos tráfego e intemperes sobre eles.

6. Referências Bibliográficas

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7. Anexos

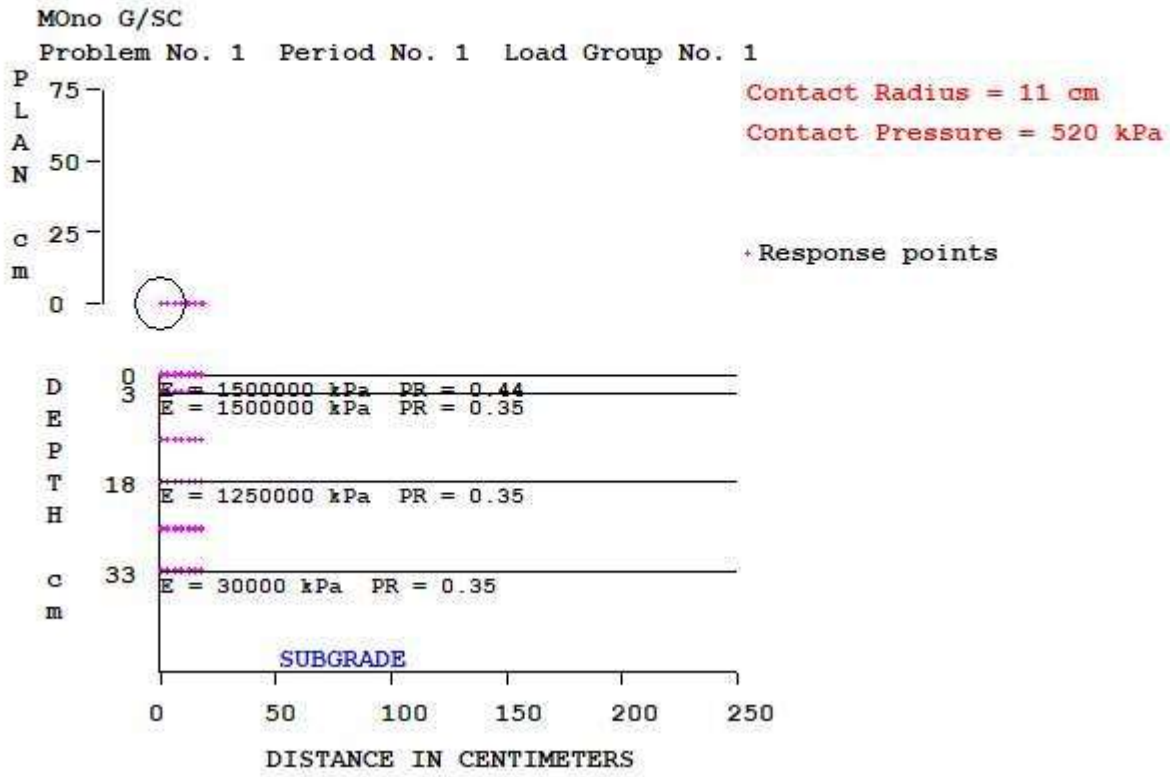
Anexo A – Representação Gráfica dos Pontos em Estudo.
Anexo B - Relatórios de Cálculo KENLAYER.
Anexo C- Tabela de Deformações.
Anexo D – Tabela de Números de Transferência.

Anexo A1

SC – 15cm Solo-Cimento/ 15cm Solo Cimento

Eixo Simples Uma Roda

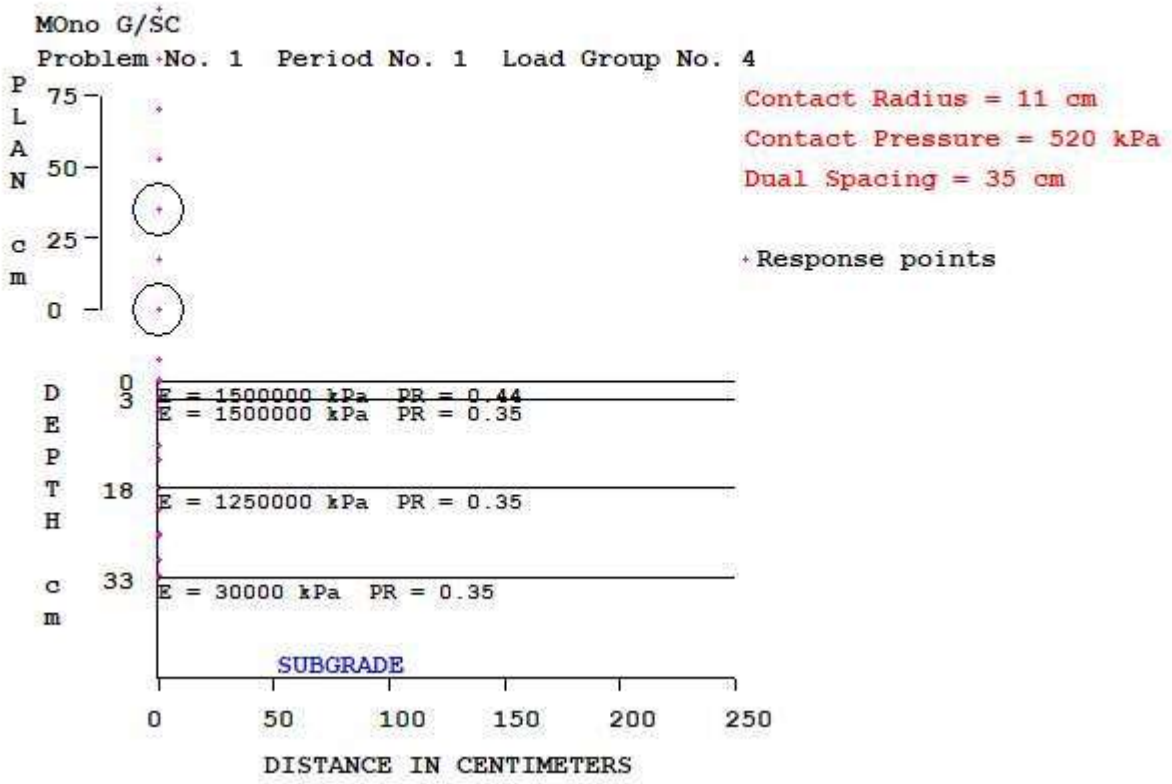
Radial



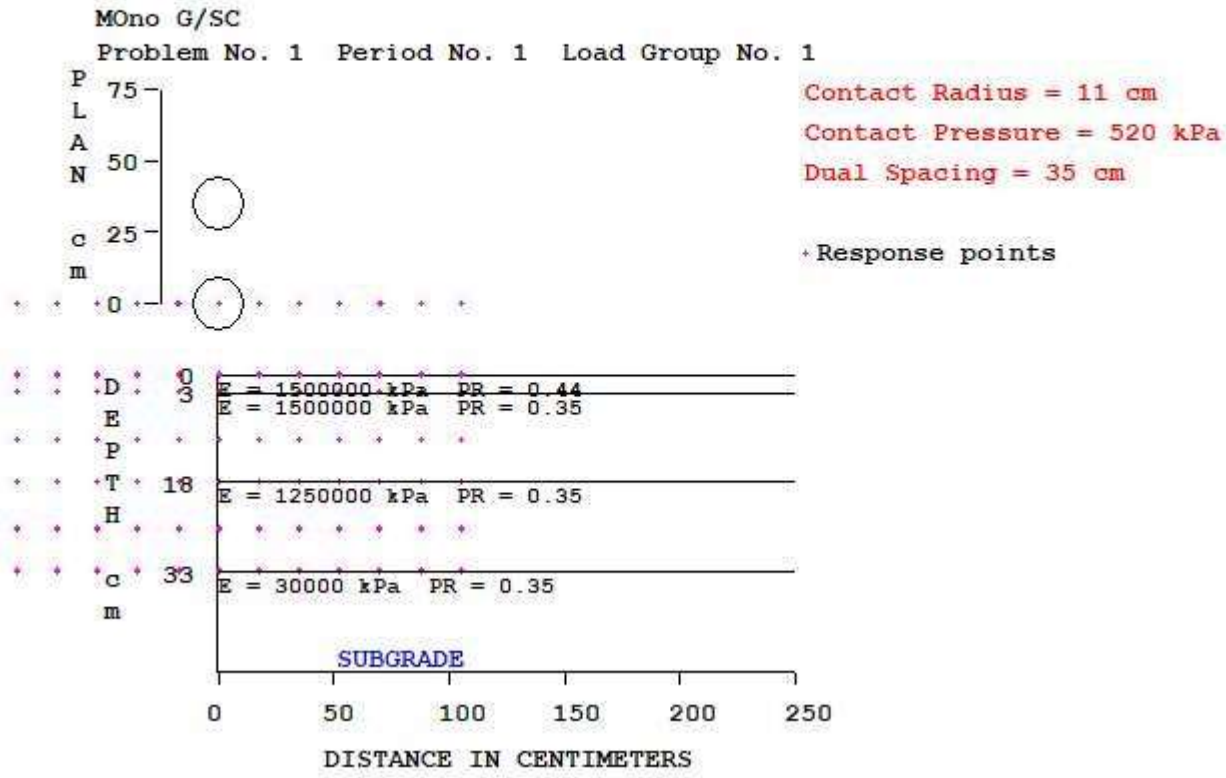
Anexo A2

SC – 15cm Solo-Cimento/ 15cm Solo Cimento
Eixo Simples Rodado Duplo

Eixo YY - Transversal



Anexo A3
SC – 15cm Solo-Cimento/ 15cm Solo-Cimento
Eixo Simples Rodado Duplo
Eixo XX - Longitudinal

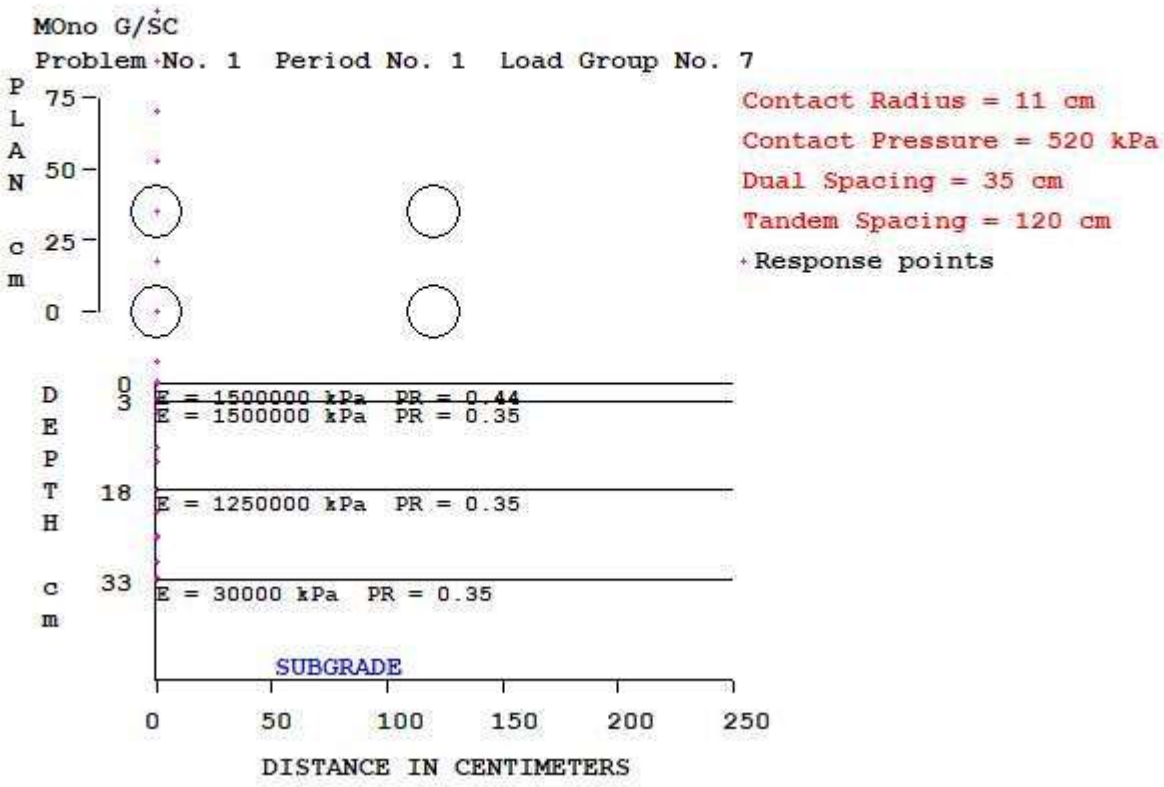


Anexo A4

SC – 15cm Solo-Cimento/ 15cm Solo Cimento

Eixo Tandem Rodado Duplo

Eixo YY – Transversal

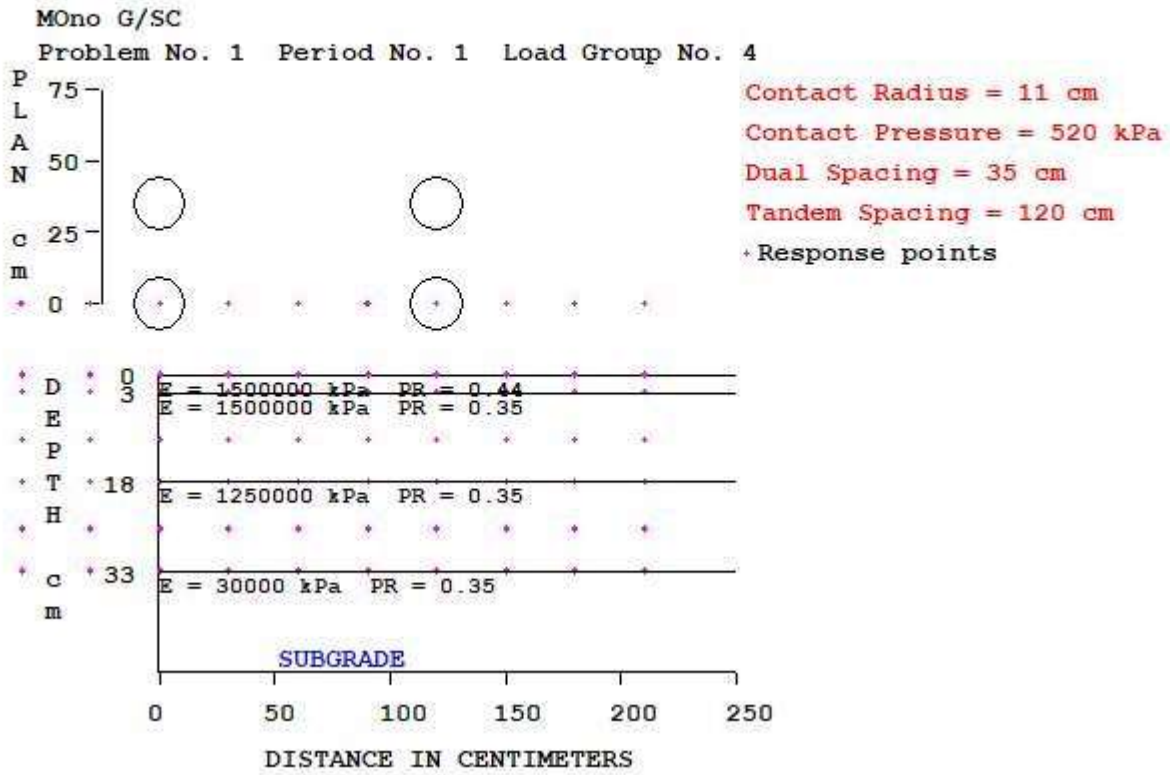


Anexo A5

SC – 15cm Solo-Cimento/ 15cm Solo Cimento

Eixo Tandem Rodado Duplo

Eixo XX – Longitudinal

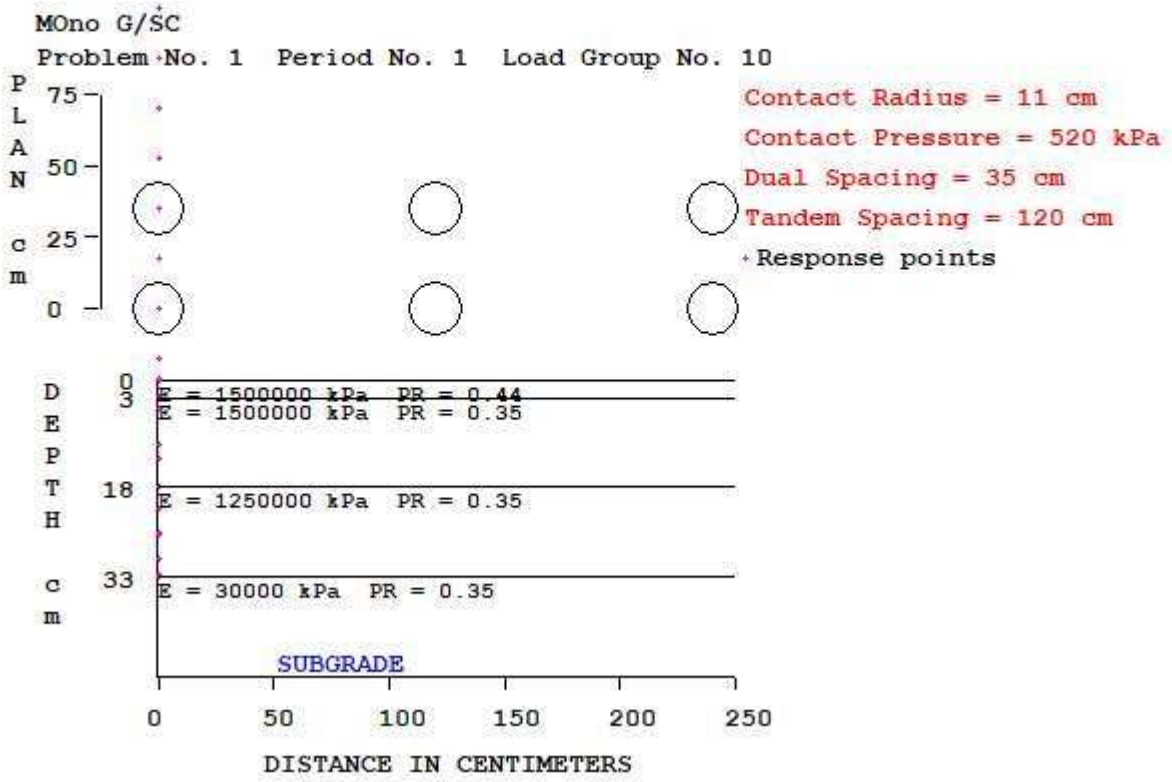


Anexo A6

SC – 15cm Solo-Cimento/ 15cm Solo Cimento

Eixo Trindem Rodado Duplo

Eixo YY – Transversal

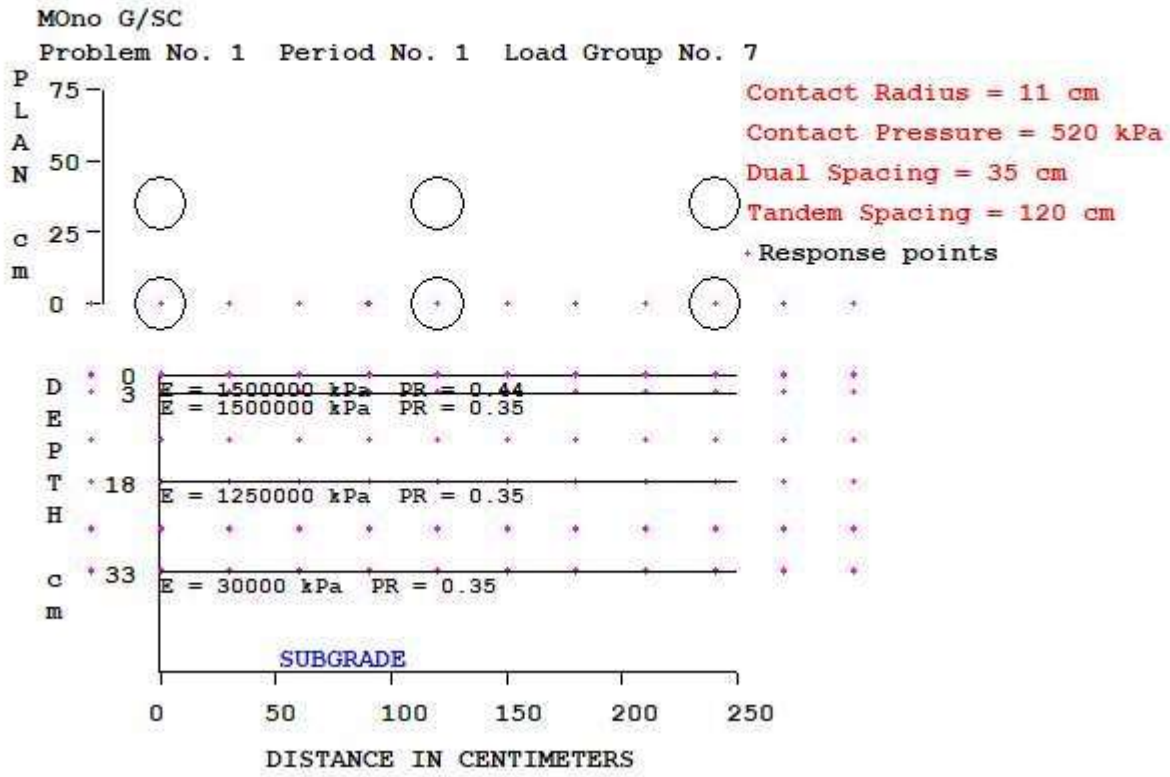


Anexo A7

SC – 15cm Solo-Cimento/ 15cm Solo Cimento

Eixo Trindem Rodado Duplo

Eixo XX – Longitudinal

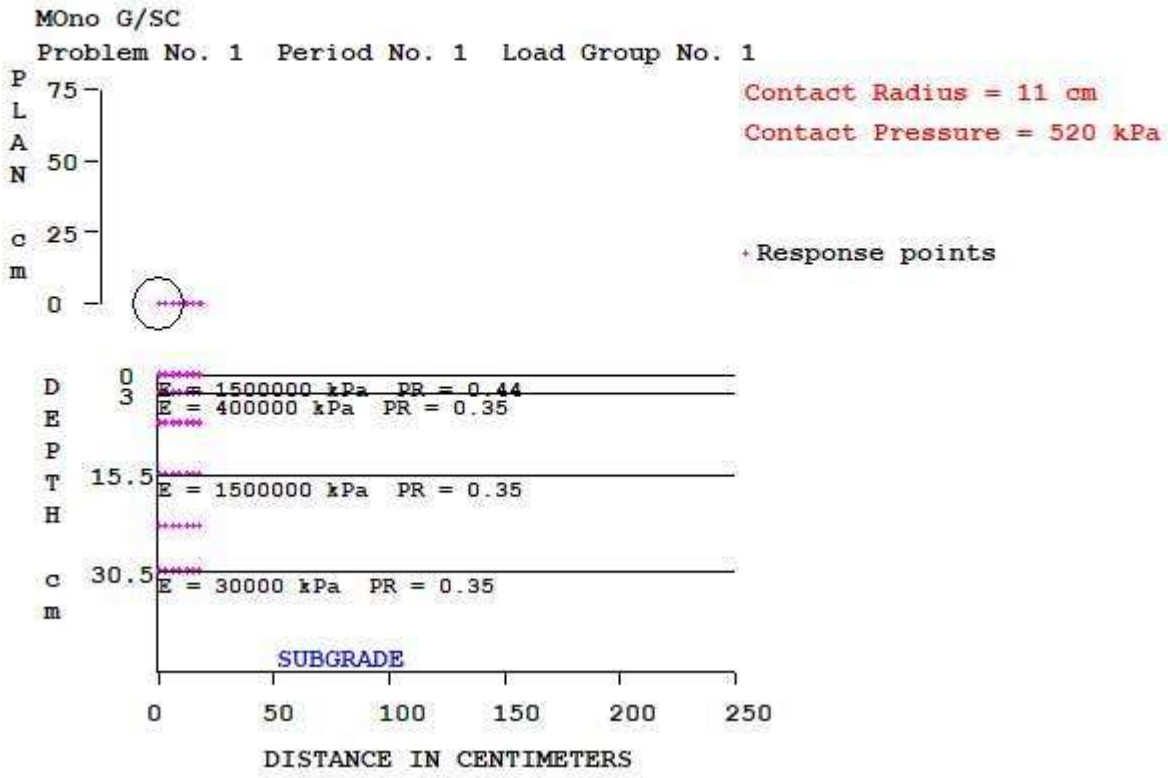


Anexo A8

GR12 – 12.5cm Granular/ 15cm Solo Cimento

Eixo Simples Uma Roda

Radial

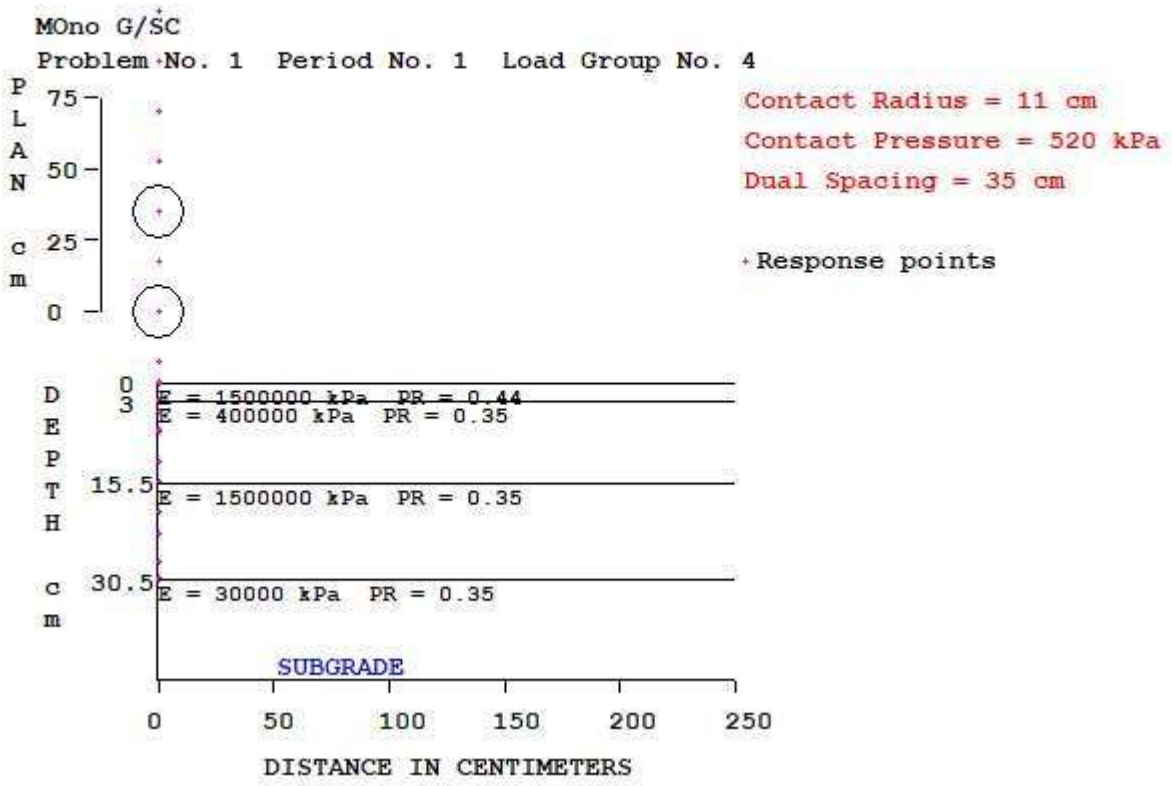


Anexo A9

GR12 – 12.5cm Granular/ 15cm Solo Cimento

Eixo Simples Rodado Duplo

Eixo YY - Transversal

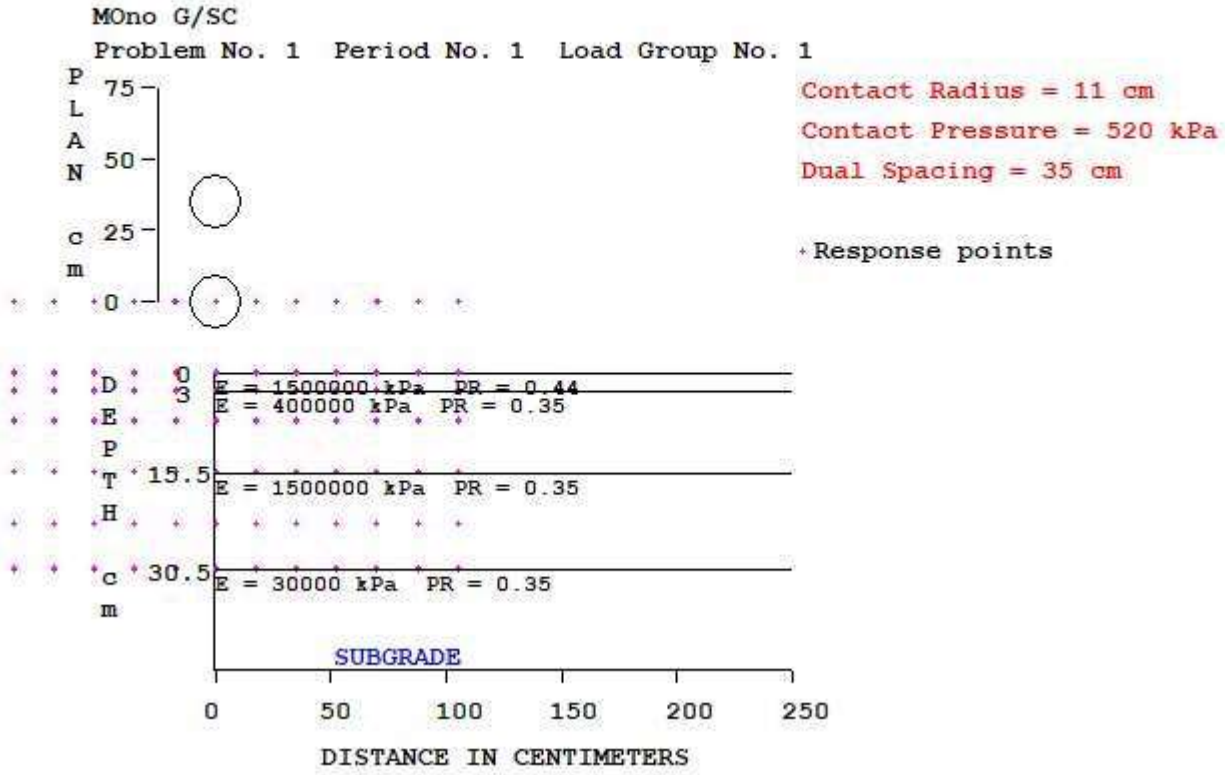


Anexo A10

GR12 – 12.5cm Granular/ 15cm Solo Cimento

Eixo Simples Rodado Duplo

Eixo XX - Longitudinal

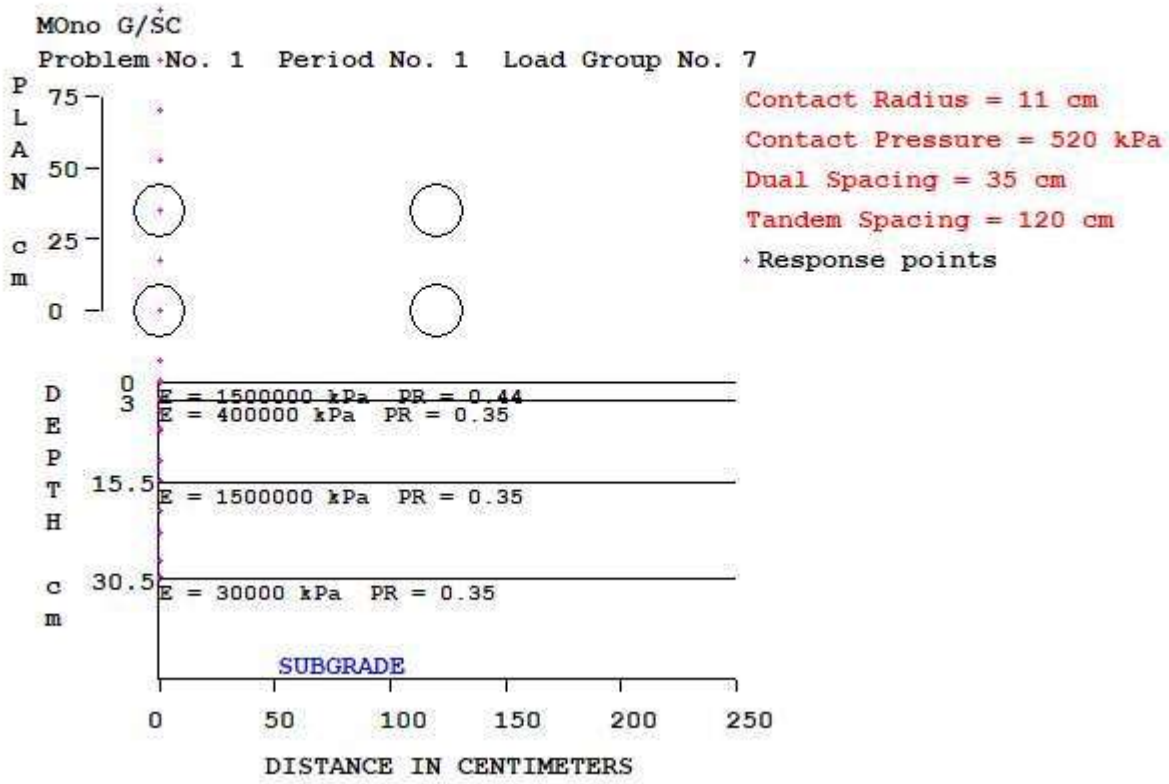


Anexo A11

GR12 – 12.5cm Granular/ 15cm Solo Cimento

Eixo Tandem Rodado Duplo

Eixo YY - Transversal

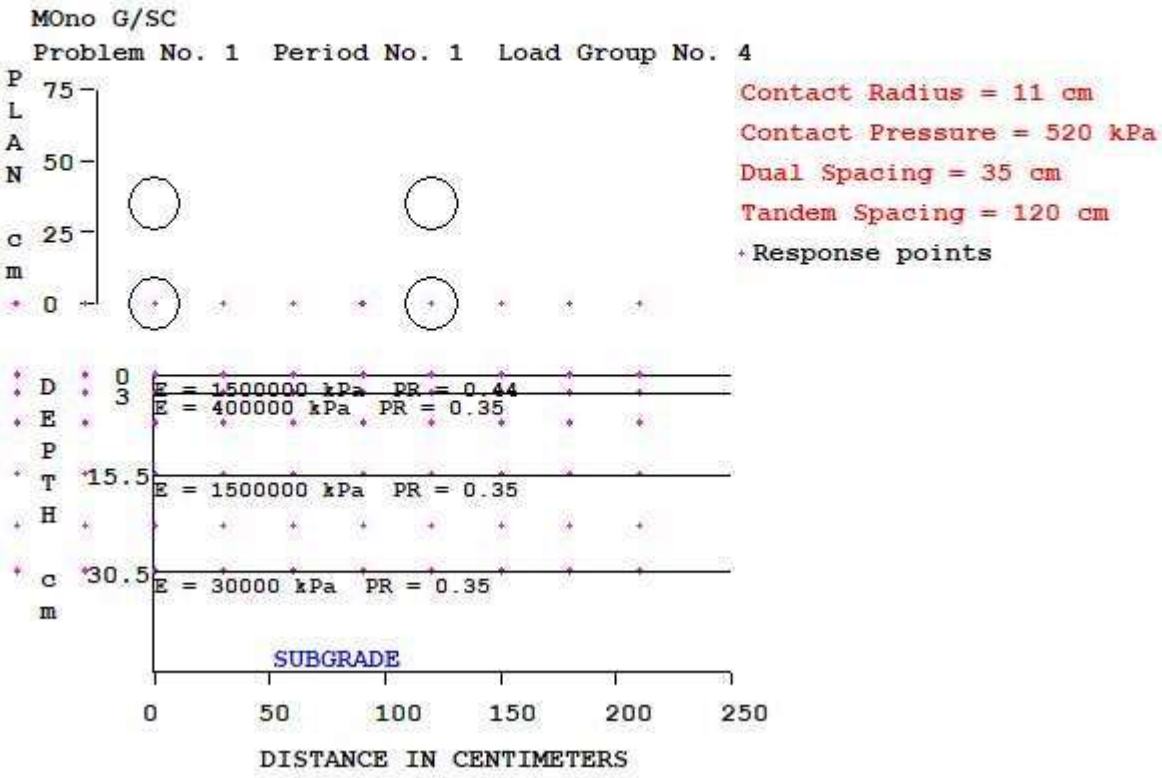


Anexo A12

GR12 – 12.5cm Granular/ 15cm Solo Cimento

Eixo Tandem Rodado Duplo

Eixo XX - Longitudinal

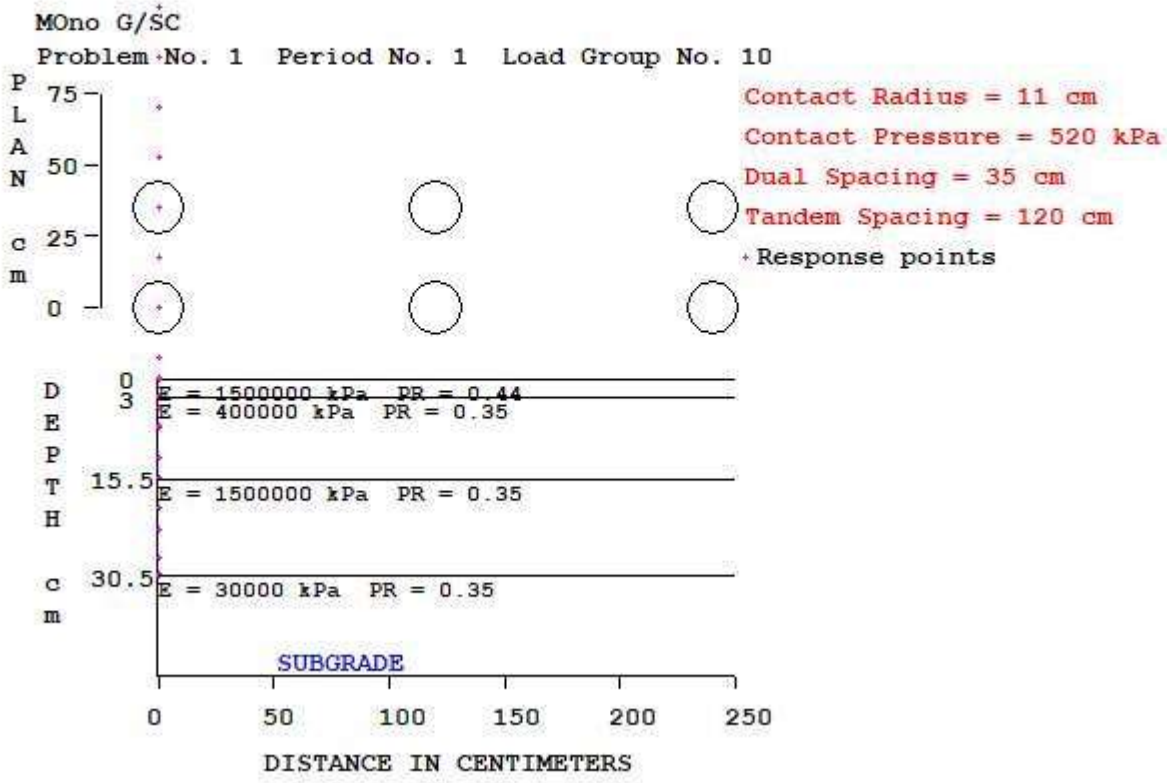


Anexo A13

GR12 – 12.5cm Granular/ 15cm Solo Cimento

Eixo Trindem Rodado Duplo

Eixo YY - Transversal

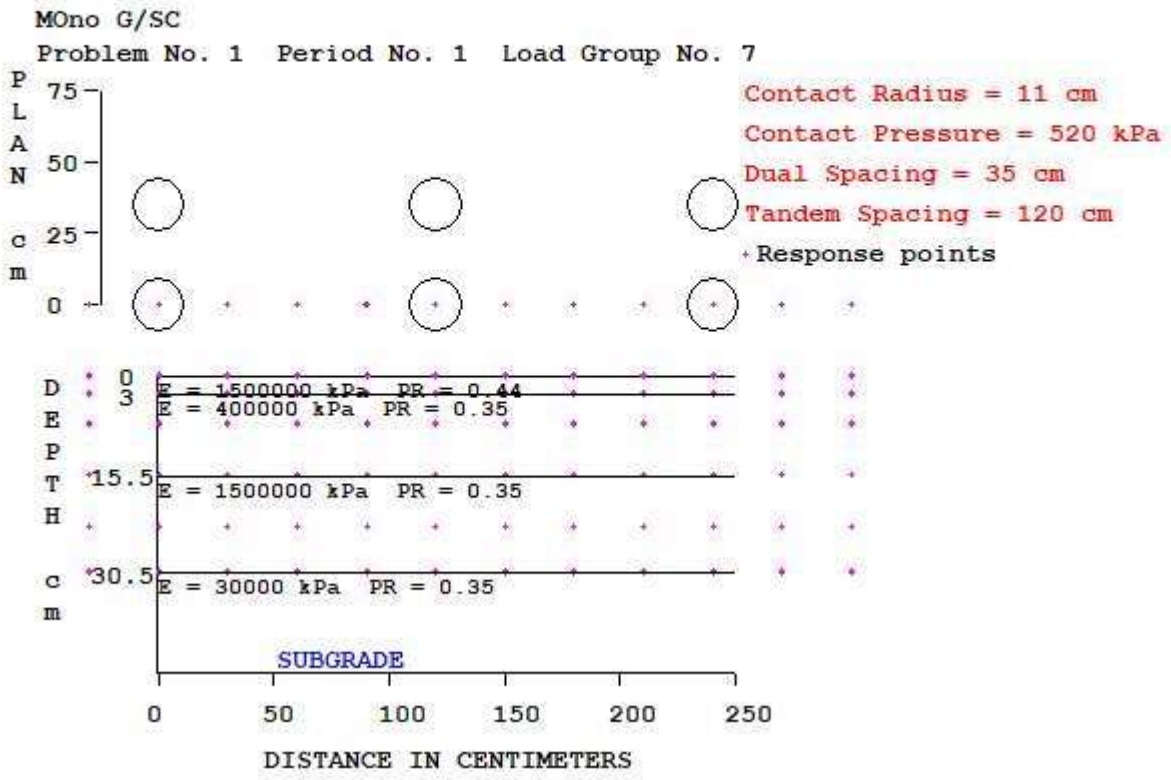


Anexo A14

GR12 – 12.5cm Granular/ 15cm Solo Cimento

Eixo Trindem Rodado Duplo

Eixo XX - Longitudinal

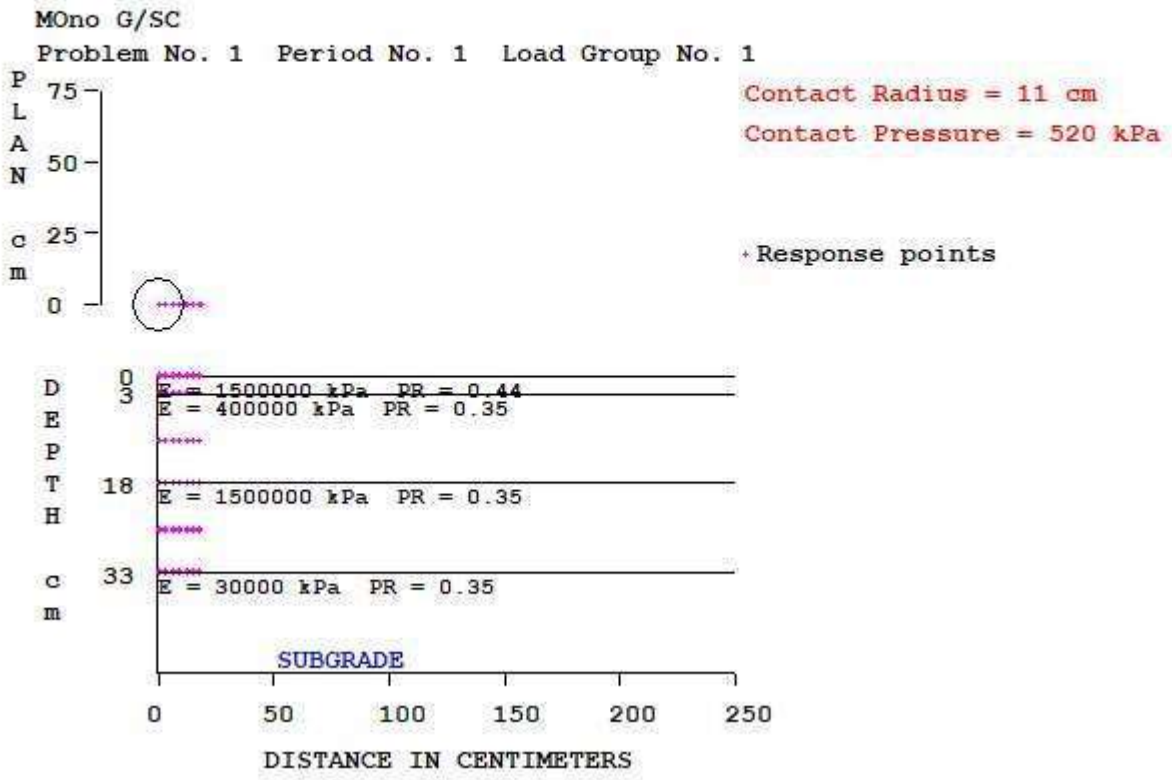


Anexo A15

GR15 – 15cm Granular/ 15cm Solo Cimento

Eixo Simples Uma Roda

Radial

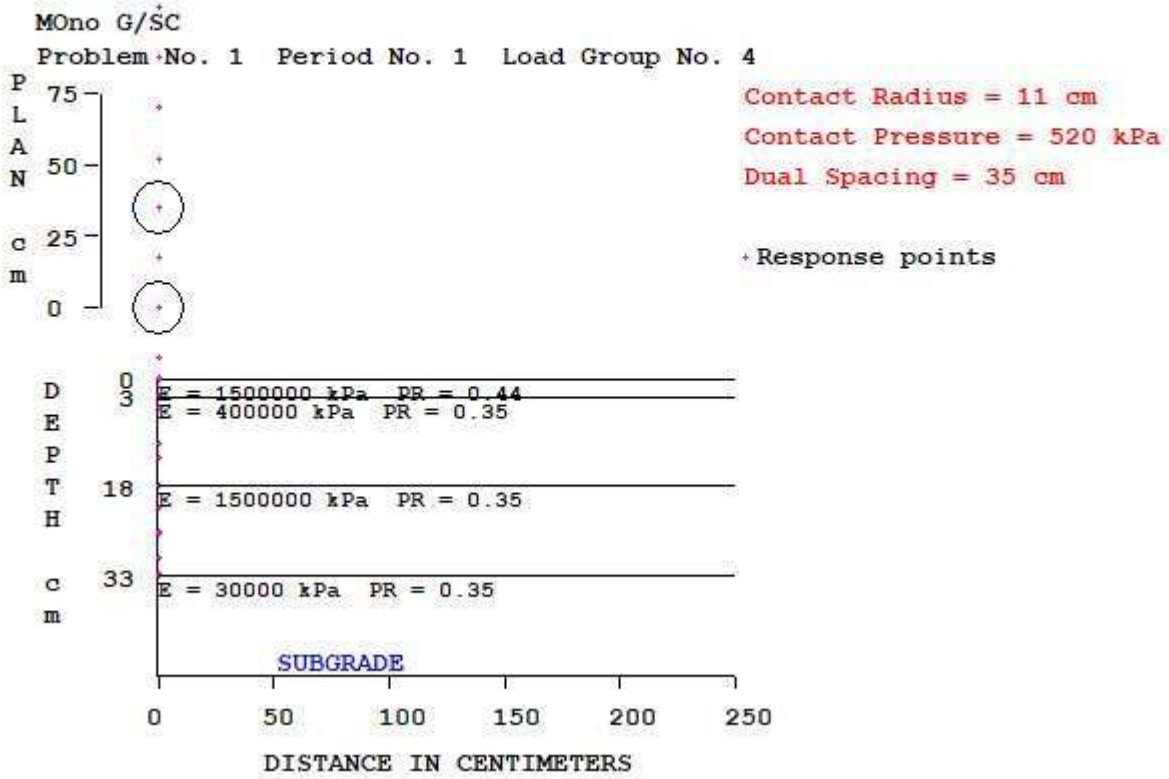


Anexo A16

GR15 – 15cm Granular/ 15cm Solo Cimento

Eixo Simples Rodado Duplo

Eixo YY - Transversal

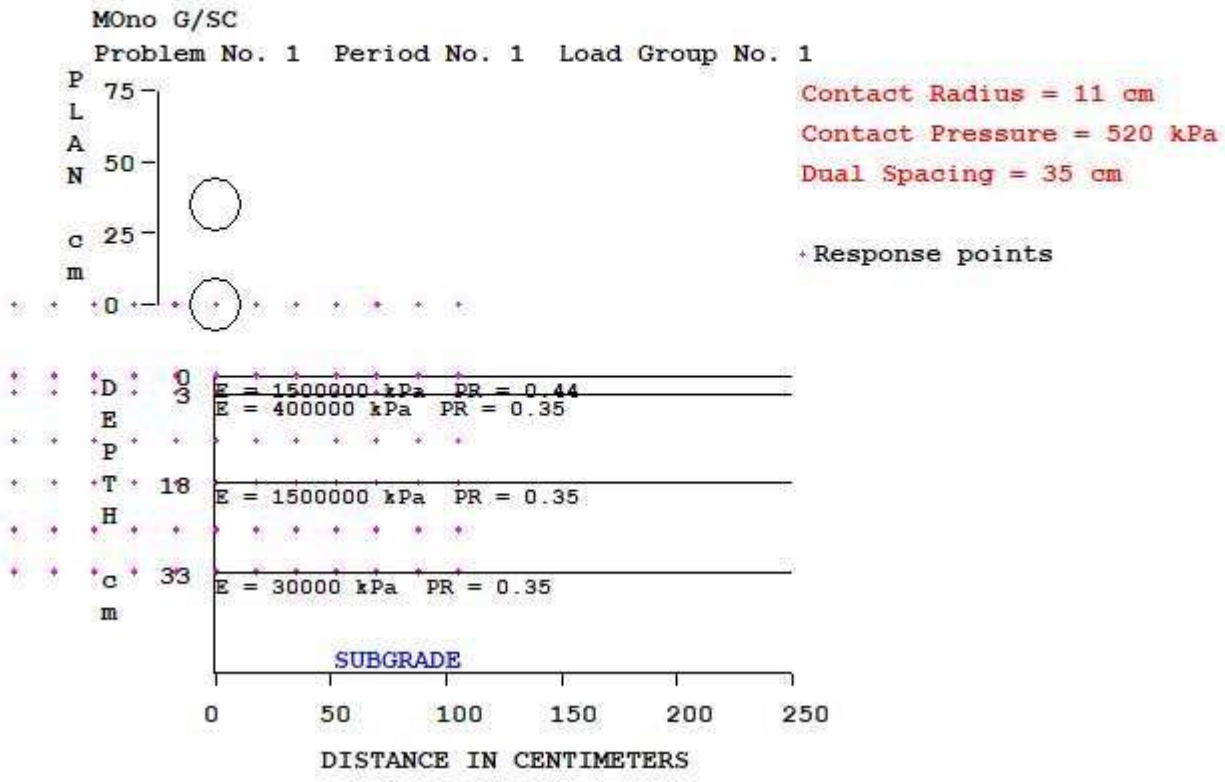


Anexo A17

GR15 – 15cm Granular/ 15cm Solo Cimento

Eixo Simples Rodado Duplo

Eixo XX- Longitudinal

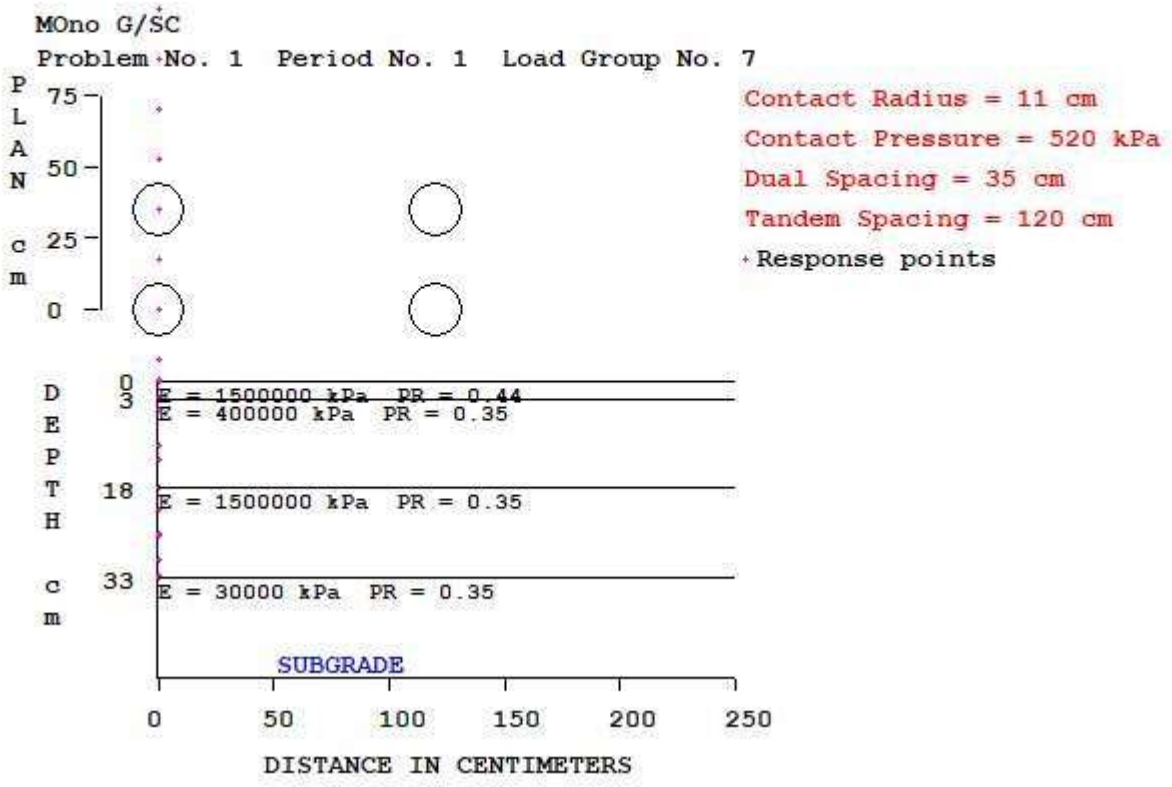


Anexo A18

GR15 – 15cm Granular/ 15cm Solo Cimento

Eixo Tandem Rodado Duplo

Eixo YY - Transversal

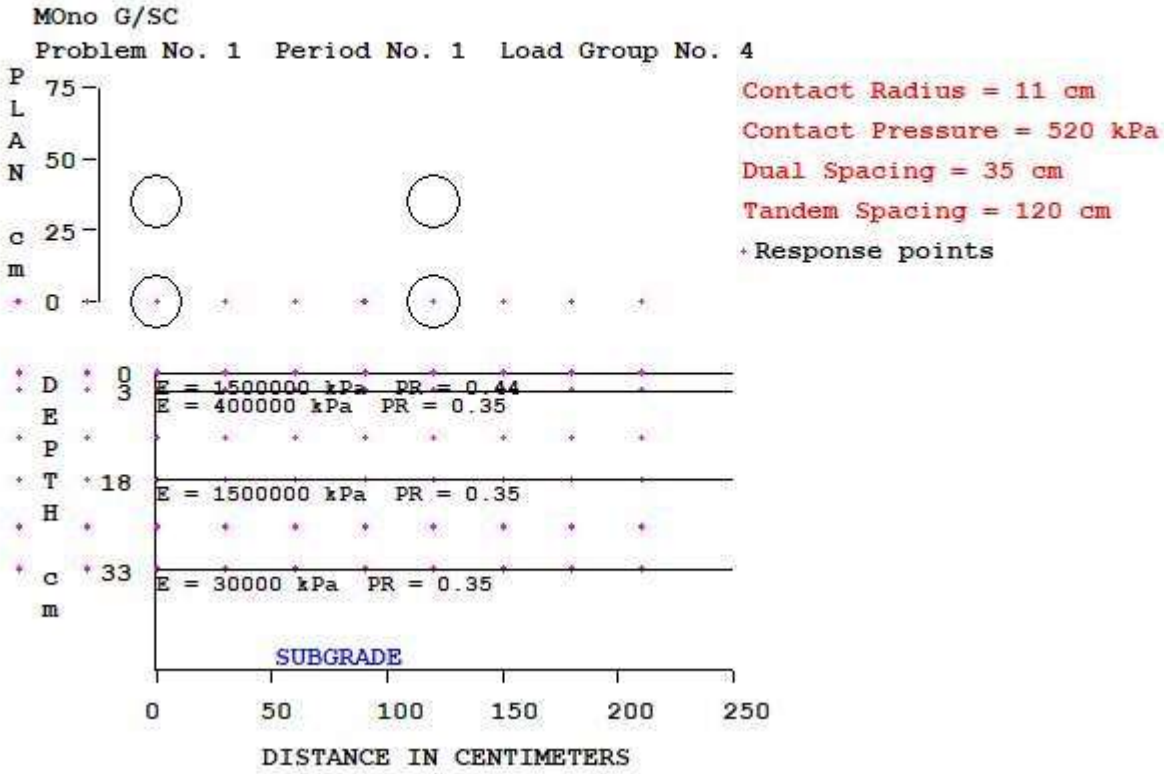


Anexo A19

GR15 – 15cm Granular/ 15cm Solo Cimento

Eixo Tandem Rodado Duplo

Eixo XX - Longitudinal

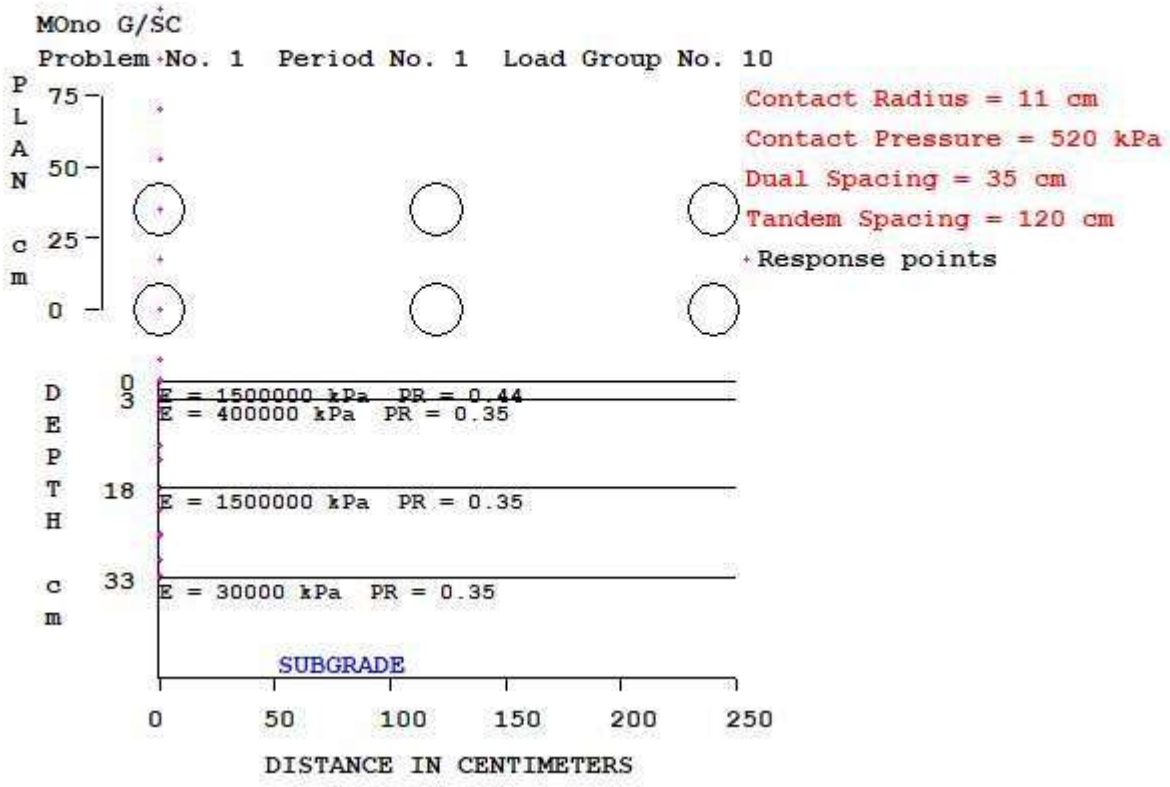


Anexo A20

GR15 – 15cm Granular/ 15cm Solo Cimento

Eixo Trindem Rodado Duplo

Eixo YY - Transversal

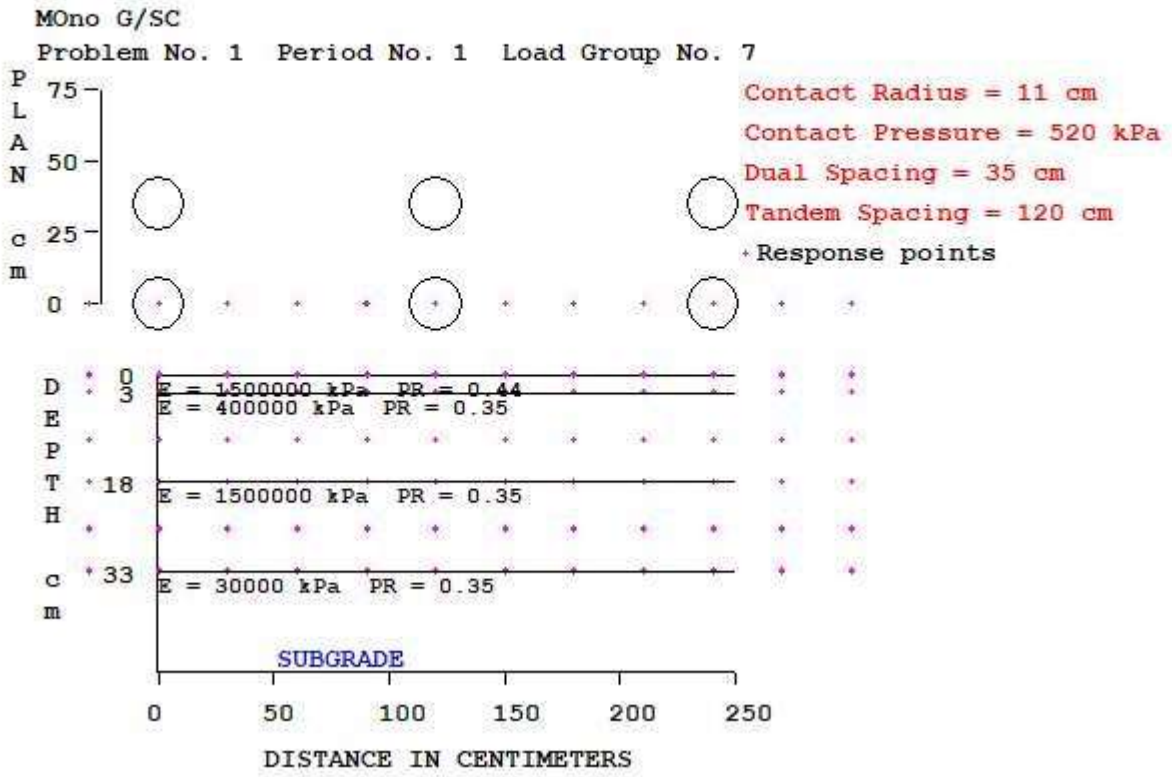


Anexo A21

GR15 – 15cm Granular/ 15cm Solo Cimento

Eixo Trindem Rodado Duplo

Eixo XX - Longitudinal



Anexo B1
SC – 15cm Solo-Cimento/ 15cm Solo-Cimento

```
INPUT FILE NAME  -C:\KENPAVE\para tcc\solo cimento\transversal\solo cimento
transversal.DAT

NUMBER OF PROBLEMS TO BE SOLVED =  1

TITLE -MOno G/SC

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
NUMBER OF PERIODS PER YEAR (NPY) =  2
NUMBER OF LOAD GROUPS (NLG) =  12
TOLERANCE FOR INTEGRATION (DEL) -- =  0.001
NUMBER OF LAYERS (NL)------------- =  4
NUMBER OF Z COORDINATES (NZ)------ =  6
LIMIT OF INTEGRATION CYCLES (ICL)- =  80
COMPUTING CODE (NSTD)------------- =  9
SYSTEM OF UNITS (NUNIT)------------=  1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m^3, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 3  15  15
POISSON'S RATIOS OF LAYERS (PR) ARE : 0.44  0.35  0.35  0.35
VERTICAL COORDINATES OF POINTS (ZC) ARE:  0  3  10.5  18  25.5  33
ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  1.500E+06
   3  1.250E+06   4  3.000E+04

FOR PERIOD NO. 2 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  3.000E+05
   3  2.500E+05   4  3.000E+04

LOAD GROUP NO. 1 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18
LOAD GROUP NO. 2 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18
LOAD GROUP NO. 3 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18

LOAD GROUP NO. 4  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
```

```
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 5  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 6  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 7  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 8  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 9  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
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  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 10  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 11  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 12  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

PERIOD NO.  1   LOAD GROUP NO.  1

   RADIAL     VERTICAL     VERTICAL   VERTICAL    RADIAL  TANGENTIAL   SHEAR
 COORDINATE  COORDINATE  DISPLACEMENT  STRESS     STRESS    STRESS     STRESS
                                       (STRAIN)   (STRAIN)  (STRAIN)   (STRAIN)
   0.00000     0.00000     0.03556    520.000    580.801    580.801     0.000
  (STRAIN)                           -8.441E-05  1.040E-04  1.040E-04  .000E+00
   0.00000     3.00000     0.03662    503.051    482.618    482.618     0.000
  (STRAIN)                            5.223E-05  3.262E-05  3.262E-05  .000E+00
   0.00000    10.50000     0.03517    312.803     68.932     68.932     0.000
  (STRAIN)                            1.764E-04 -4.312E-05 -4.312E-05  .000E+00
   0.00000    18.00000     0.03410    139.924    -52.337    -52.337     0.000
  (STRAIN)                            1.177E-04 -5.533E-05 -5.533E-05  .000E+00
   0.00000    25.50000     0.03329     47.404   -101.150   -101.150     0.000
  (STRAIN)                            9.457E-05 -6.587E-05 -6.587E-05  .000E+00
   0.00000    33.00000     0.03252     10.392   -209.402   -209.402     0.000
  (STRAIN)                            1.256E-04 -1.118E-04 -1.118E-04  .000E+00
   3.00000     0.00000     0.03543    520.000    566.700    568.183     0.000
  (STRAIN)                           -8.467E-05  1.019E-04  1.033E-04 -.428E-11
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3.00000	3.00000	0.03647	500.406	470.842	473.986	21.340
(STRAIN)			5.645E-05	2.807E-05	3.109E-05	.410E-04
3.00000	10.50000	0.03505	300.654	69.943	66.992	42.723
(STRAIN)			1.685E-04	-3.916E-05	-4.181E-05	.769E-04
3.00000	18.00000	0.03402	134.737	-49.390	-51.611	24.225
(STRAIN)			1.134E-04	-5.232E-05	-5.432E-05	.436E-04
3.00000	25.50000	0.03324	46.017	-99.600	-100.487	12.795
(STRAIN)			9.284E-05	-6.443E-05	-6.539E-05	.276E-04
3.00000	33.00000	0.03248	10.319	-206.388	-207.568	0.474
(STRAIN)			1.242E-04	-1.099E-04	-1.112E-04	.102E-05
6.00000	0.00000	0.03505	520.000	526.165	531.883	0.000
(STRAIN)			-8.534E-05	9.575E-05	1.012E-04	-.787E-11
6.00000	3.00000	0.03597	486.454	430.537	443.227	55.557
(STRAIN)			6.800E-05	1.432E-05	2.650E-05	.107E-03
6.00000	10.50000	0.03468	263.258	74.412	61.698	81.492
(STRAIN)			1.437E-04	-2.622E-05	-3.766E-05	.147E-03
6.00000	18.00000	0.03379	120.079	-41.118	-49.480	45.192
(STRAIN)			1.012E-04	-4.388E-05	-5.141E-05	.813E-04
6.00000	25.50000	0.03307	42.113	-95.170	-98.550	24.209
(STRAIN)			8.793E-05	-6.033E-05	-6.398E-05	.523E-04
6.00000	33.00000	0.03234	10.107	-197.717	-202.264	0.917
(STRAIN)			1.201E-04	-1.044E-04	-1.093E-04	.198E-05
9.00000	0.00000	0.03389	520.000	385.478	392.341	0.000
(STRAIN)			-9.148E-05	8.176E-05	8.835E-05	.751E-12
9.00000	3.00000	0.03504	410.245	356.163	367.774	134.167
(STRAIN)			6.114E-05	9.223E-06	2.037E-05	.258E-03
9.00000	10.50000	0.03412	202.210	84.038	54.675	107.888
(STRAIN)			1.024E-04	-3.914E-06	-3.034E-05	.194E-03
9.00000	18.00000	0.03343	98.674	-29.297	-46.147	60.207
(STRAIN)			8.339E-05	-3.179E-05	-4.695E-05	.108E-03
9.00000	25.50000	0.03281	36.386	-88.463	-95.469	33.146
(STRAIN)			8.061E-05	-5.423E-05	-6.179E-05	.716E-04
9.00000	33.00000	0.03212	9.777	-184.380	-193.993	1.304
(STRAIN)			1.138E-04	-9.592E-05	-1.063E-04	.282E-05
12.00000	0.00000	0.03325	0.000	331.238	341.079	0.000
(STRAIN)			-9.034E-05	7.375E-05	8.320E-05	.833E-12
12.00000	3.00000	0.03368	135.268	308.073	236.269	156.601
(STRAIN)			-6.949E-05	9.640E-05	2.747E-05	.301E-03
12.00000	10.50000	0.03343	131.591	94.170	48.174	112.569
(STRAIN)			5.451E-05	2.084E-05	-2.056E-05	.203E-03
12.00000	18.00000	0.03298	74.637	-16.682	-41.992	67.953
(STRAIN)			6.345E-05	-1.874E-05	-4.152E-05	.122E-03
12.00000	25.50000	0.03246	29.789	-80.294	-91.422	39.020
(STRAIN)			7.191E-05	-4.698E-05	-5.900E-05	.843E-04
12.00000	33.00000	0.03183	9.354	-167.750	-183.448	1.618
(STRAIN)			1.058E-04	-8.545E-05	-1.024E-04	.349E-05
15.00000	0.00000	0.03239	0.000	265.869	275.607	0.000
(STRAIN)			-8.788E-05	6.518E-05	7.453E-05	-.916E-11
15.00000	3.00000	0.03256	19.908	222.043	170.055	63.530
(STRAIN)			-1.017E-04	9.231E-05	4.240E-05	.122E-03
15.00000	10.50000	0.03270	73.122	96.299	43.591	98.679
(STRAIN)			1.611E-05	3.697E-05	-1.047E-05	.178E-03
15.00000	18.00000	0.03246	52.173	-6.021	-37.527	69.017
(STRAIN)			4.494E-05	-7.432E-06	-3.579E-05	.124E-03
15.00000	25.50000	0.03204	23.281	-71.592	-86.710	41.825
(STRAIN)			6.295E-05	-3.951E-05	-5.584E-05	.903E-04
15.00000	33.00000	0.03146	8.874	-149.471	-171.555	1.852
(STRAIN)			9.699E-05	-7.403E-05	-9.788E-05	.400E-05
18.00000	0.00000	0.03167	0.000	222.980	232.709	0.000

(STRAIN)			-8.340E-05	5.827E-05	6.761E-05	-.492E-11
18.00000	3.00000	0.03176	4.489	164.164	146.627	31.835
(STRAIN)			-8.817E-05	6.512E-05	4.828E-05	.611E-04
18.00000	10.50000	0.03201	36.585	88.876	40.819	78.703
(STRAIN)			-5.872E-06	4.119E-05	-2.062E-06	.142E-03
18.00000	18.00000	0.03191	34.082	1.168	-33.184	65.435
(STRAIN)			3.019E-05	5.690E-07	-3.035E-05	.118E-03
18.00000	25.50000	0.03158	17.599	-63.066	-81.582	42.023
(STRAIN)			5.458E-05	-3.254E-05	-5.254E-05	.908E-04
18.00000	33.00000	0.03106	8.377	-130.962	-159.095	2.011
(STRAIN)			8.792E-05	-6.257E-05	-9.295E-05	.434E-05

PERIOD NO. 1 LOAD GROUP NO. 2

RADIAL COORDINATE	VERTICAL COORDINATE	VERTICAL DISPLACEMENT	VERTICAL STRESS (STRAIN)	RADIAL STRESS (STRAIN)	TANGENTIAL STRESS (STRAIN)	SHEAR STRESS (STRAIN)
0.00000	0.00000	0.04104	600.000	670.155	670.155	0.000
(STRAIN)			-9.740E-05	1.201E-04	1.201E-04	.000E+00
0.00000	3.00000	0.04226	580.444	556.867	556.867	0.000
(STRAIN)			6.027E-05	3.763E-05	3.763E-05	.000E+00
0.00000	10.50000	0.04058	360.927	79.537	79.537	0.000
(STRAIN)			2.035E-04	-4.975E-05	-4.975E-05	.000E+00
0.00000	18.00000	0.03935	161.451	-60.389	-60.389	0.000
(STRAIN)			1.358E-04	-6.384E-05	-6.384E-05	.000E+00
0.00000	25.50000	0.03842	54.697	-116.711	-116.711	0.000
(STRAIN)			1.091E-04	-7.601E-05	-7.601E-05	.000E+00
0.00000	33.00000	0.03753	11.991	-241.618	-241.618	0.000
(STRAIN)			1.449E-04	-1.290E-04	-1.290E-04	.000E+00
3.00000	0.00000	0.04089	600.000	653.885	655.596	0.000
(STRAIN)			-9.769E-05	1.176E-04	1.192E-04	-.494E-11
3.00000	3.00000	0.04208	577.392	543.279	546.907	24.623
(STRAIN)			6.514E-05	3.239E-05	3.587E-05	.473E-04
3.00000	10.50000	0.04044	346.909	80.703	77.299	49.296
(STRAIN)			1.944E-04	-4.518E-05	-4.824E-05	.887E-04
3.00000	18.00000	0.03925	155.466	-56.989	-59.551	27.952
(STRAIN)			1.308E-04	-6.037E-05	-6.268E-05	.503E-04
3.00000	25.50000	0.03835	53.097	-114.923	-115.947	14.764
(STRAIN)			1.071E-04	-7.434E-05	-7.545E-05	.319E-04
3.00000	33.00000	0.03747	11.906	-238.140	-239.501	0.547
(STRAIN)			1.433E-04	-1.268E-04	-1.283E-04	.118E-05
6.00000	0.00000	0.04045	600.000	607.114	613.711	0.000
(STRAIN)			-9.847E-05	1.105E-04	1.168E-04	-.908E-11
6.00000	3.00000	0.04150	561.293	496.774	511.416	64.104
(STRAIN)			7.846E-05	1.652E-05	3.058E-05	.123E-03
6.00000	10.50000	0.04002	303.759	85.860	71.190	94.029
(STRAIN)			1.659E-04	-3.025E-05	-4.345E-05	.169E-03
6.00000	18.00000	0.03899	138.552	-47.444	-57.093	52.144
(STRAIN)			1.168E-04	-5.064E-05	-5.932E-05	.939E-04
6.00000	25.50000	0.03816	48.592	-109.811	-113.711	27.933
(STRAIN)			1.015E-04	-6.962E-05	-7.383E-05	.603E-04
6.00000	33.00000	0.03731	11.662	-228.135	-233.381	1.058
(STRAIN)			1.386E-04	-1.204E-04	-1.261E-04	.229E-05
9.00000	0.00000	0.03910	600.000	444.782	452.701	0.000
(STRAIN)			-1.056E-04	9.434E-05	1.019E-04	.866E-12
9.00000	3.00000	0.04043	473.360	410.957	424.354	154.807
(STRAIN)			7.055E-05	1.064E-05	2.350E-05	.297E-03
9.00000	10.50000	0.03936	233.319	96.967	63.086	124.486
(STRAIN)			1.182E-04	-4.516E-06	-3.501E-05	.224E-03

9.00000	18.00000	0.03858	113.855	-33.804	-53.247	69.470
(STRAIN)			9.622E-05	-3.668E-05	-5.418E-05	.125E-03
9.00000	25.50000	0.03786	41.984	-102.073	-110.157	38.245
(STRAIN)			9.301E-05	-6.257E-05	-7.130E-05	.826E-04
9.00000	33.00000	0.03706	11.281	-212.746	-223.838	1.504
(STRAIN)			1.313E-04	-1.107E-04	-1.227E-04	.325E-05
12.00000	0.00000	0.03836	0.000	382.198	393.553	0.000
(STRAIN)			-1.042E-04	8.510E-05	9.600E-05	.961E-12
12.00000	3.00000	0.03887	156.079	355.469	272.618	180.694
(STRAIN)			-8.019E-05	1.112E-04	3.169E-05	.347E-03
12.00000	10.50000	0.03857	151.835	108.658	55.585	129.887
(STRAIN)			6.290E-05	2.404E-05	-2.373E-05	.234E-03
12.00000	18.00000	0.03806	86.120	-19.249	-48.453	78.408
(STRAIN)			7.321E-05	-2.162E-05	-4.791E-05	.141E-03
12.00000	25.50000	0.03746	34.372	-92.647	-105.487	45.023
(STRAIN)			8.297E-05	-5.421E-05	-6.807E-05	.973E-04
12.00000	33.00000	0.03672	10.793	-193.558	-211.670	1.866
(STRAIN)			1.221E-04	-9.860E-05	-1.182E-04	.403E-05
15.00000	0.00000	0.03737	0.000	306.772	318.008	0.000
(STRAIN)			-1.014E-04	7.521E-05	8.599E-05	-.106E-10
15.00000	3.00000	0.03757	22.971	256.204	196.217	73.304
(STRAIN)			-1.174E-04	1.065E-04	4.892E-05	.141E-03
15.00000	10.50000	0.03773	84.371	111.114	50.298	113.860
(STRAIN)			1.858E-05	4.265E-05	-1.208E-05	.205E-03
15.00000	18.00000	0.03745	60.200	-6.947	-43.301	79.635
(STRAIN)			5.186E-05	-8.575E-06	-4.129E-05	.143E-03
15.00000	25.50000	0.03697	26.863	-82.606	-100.050	48.260
(STRAIN)			7.263E-05	-4.559E-05	-6.443E-05	.104E-03
15.00000	33.00000	0.03630	10.240	-172.467	-197.947	2.137
(STRAIN)			1.119E-04	-8.542E-05	-1.129E-04	.462E-05
18.00000	0.00000	0.03654	0.000	257.284	268.511	0.000
(STRAIN)			-9.623E-05	6.724E-05	7.802E-05	-.568E-11
18.00000	3.00000	0.03665	5.179	189.420	169.185	36.733
(STRAIN)			-1.017E-04	7.513E-05	5.571E-05	.705E-04
18.00000	10.50000	0.03694	42.214	102.550	47.099	90.811
(STRAIN)			-6.775E-06	4.753E-05	-2.379E-06	.163E-03
18.00000	18.00000	0.03682	39.325	1.347	-38.290	75.502
(STRAIN)			3.484E-05	6.565E-07	-3.502E-05	.136E-03
18.00000	25.50000	0.03644	20.307	-72.769	-94.134	48.488
(STRAIN)			6.298E-05	-3.754E-05	-6.062E-05	.105E-03
18.00000	33.00000	0.03584	9.665	-151.110	-183.571	2.321
(STRAIN)			1.014E-04	-7.219E-05	-1.073E-04	.501E-05

PERIOD NO. 1 LOAD GROUP NO. 3

RADIAL COORDINATE	VERTICAL COORDINATE	VERTICAL DISPLACEMENT	VERTICAL STRESS (STRAIN)	RADIAL STRESS (STRAIN)	TANGENTIAL STRESS (STRAIN)	SHEAR STRESS (STRAIN)
0.00000	0.00000	0.04788	700.000	781.847	781.847	0.000
(STRAIN)			-1.136E-04	1.401E-04	1.401E-04	.000E+00
0.00000	3.00000	0.04930	677.184	649.679	649.679	0.000
(STRAIN)			7.031E-05	4.391E-05	4.391E-05	.000E+00
0.00000	10.50000	0.04735	421.082	92.793	92.793	0.000
(STRAIN)			2.374E-04	-5.804E-05	-5.804E-05	.000E+00
0.00000	18.00000	0.04590	188.360	-70.454	-70.454	0.000
(STRAIN)			1.585E-04	-7.448E-05	-7.448E-05	.000E+00
0.00000	25.50000	0.04482	63.814	-136.163	-136.163	0.000
(STRAIN)			1.273E-04	-8.867E-05	-8.867E-05	.000E+00
0.00000	33.00000	0.04378	13.989	-281.887	-281.887	0.000

(STRAIN)			1.690E-04	-1.505E-04	-1.505E-04	.000E+00
3.00000	0.00000	0.04770	700.000	762.866	764.862	0.000
(STRAIN)			-1.140E-04	1.372E-04	1.391E-04	-.576E-11
3.00000	3.00000	0.04909	673.624	633.826	638.058	28.726
(STRAIN)			7.600E-05	3.779E-05	4.185E-05	.552E-04
3.00000	10.50000	0.04718	404.727	94.154	90.182	57.512
(STRAIN)			2.268E-04	-5.271E-05	-5.628E-05	.104E-03
3.00000	18.00000	0.04580	181.377	-66.487	-69.476	32.611
(STRAIN)			1.526E-04	-7.043E-05	-7.313E-05	.587E-04
3.00000	25.50000	0.04474	61.946	-134.077	-135.272	17.224
(STRAIN)			1.250E-04	-8.673E-05	-8.802E-05	.372E-04
3.00000	33.00000	0.04372	13.891	-277.829	-279.418	0.638
(STRAIN)			1.671E-04	-1.479E-04	-1.496E-04	.138E-05
6.00000	0.00000	0.04719	700.000	708.299	715.996	0.000
(STRAIN)			-1.149E-04	1.289E-04	1.363E-04	-.106E-10
6.00000	3.00000	0.04842	654.842	579.570	596.652	74.788
(STRAIN)			9.154E-05	1.928E-05	3.567E-05	.144E-03
6.00000	10.50000	0.04669	354.385	100.170	83.055	109.701
(STRAIN)			1.935E-04	-3.529E-05	-5.069E-05	.197E-03
6.00000	18.00000	0.04549	161.645	-55.351	-66.608	60.835
(STRAIN)			1.362E-04	-5.908E-05	-6.921E-05	.110E-03
6.00000	25.50000	0.04452	56.691	-128.113	-132.663	32.589
(STRAIN)			1.184E-04	-8.122E-05	-8.613E-05	.704E-04
6.00000	33.00000	0.04353	13.605	-266.158	-272.278	1.234
(STRAIN)			1.616E-04	-1.405E-04	-1.471E-04	.267E-05
9.00000	0.00000	0.04562	700.000	518.912	528.151	0.000
(STRAIN)			-1.232E-04	1.101E-04	1.189E-04	.101E-11
9.00000	3.00000	0.04717	552.253	479.450	495.080	180.609
(STRAIN)			8.231E-05	1.242E-05	2.742E-05	.347E-03
9.00000	10.50000	0.04592	272.205	113.128	73.601	145.233
(STRAIN)			1.379E-04	-5.269E-06	-4.084E-05	.261E-03
9.00000	18.00000	0.04501	132.831	-39.438	-62.122	81.048
(STRAIN)			1.123E-04	-4.279E-05	-6.321E-05	.146E-03
9.00000	25.50000	0.04417	48.982	-119.085	-128.516	44.619
(STRAIN)			1.085E-04	-7.300E-05	-8.318E-05	.964E-04
9.00000	33.00000	0.04324	13.161	-248.204	-261.144	1.755
(STRAIN)			1.531E-04	-1.291E-04	-1.431E-04	.379E-05
12.00000	0.00000	0.04476	0.000	445.898	459.145	0.000
(STRAIN)			-1.216E-04	9.928E-05	1.120E-04	.112E-11
12.00000	3.00000	0.04534	182.092	414.714	318.054	210.809
(STRAIN)			-9.355E-05	1.298E-04	3.697E-05	.405E-03
12.00000	10.50000	0.04500	177.141	126.768	64.849	151.535
(STRAIN)			7.338E-05	2.805E-05	-2.768E-05	.273E-03
12.00000	18.00000	0.04440	100.473	-22.457	-56.528	91.476
(STRAIN)			8.541E-05	-2.523E-05	-5.589E-05	.165E-03
12.00000	25.50000	0.04370	40.100	-108.089	-123.068	52.527
(STRAIN)			9.680E-05	-6.324E-05	-7.942E-05	.113E-03
12.00000	33.00000	0.04284	12.591	-225.818	-246.949	2.178
(STRAIN)			1.424E-04	-1.150E-04	-1.379E-04	.470E-05
15.00000	0.00000	0.04360	0.000	357.901	371.010	0.000
(STRAIN)			-1.183E-04	8.774E-05	1.003E-04	-.123E-10
15.00000	3.00000	0.04383	26.799	298.904	228.921	85.521
(STRAIN)			-1.370E-04	1.243E-04	5.707E-05	.164E-03
15.00000	10.50000	0.04402	98.433	129.633	58.681	132.837
(STRAIN)			2.168E-05	4.976E-05	-1.409E-05	.239E-03
15.00000	18.00000	0.04369	70.234	-8.105	-50.518	92.908
(STRAIN)			6.050E-05	-1.000E-05	-4.817E-05	.167E-03
15.00000	25.50000	0.04313	31.340	-96.374	-116.725	56.303
(STRAIN)			8.474E-05	-5.319E-05	-7.517E-05	.122E-03

15.00000	33.00000	0.04235	11.946	-201.212	-230.939	2.494
(STRAIN)			1.306E-04	-9.965E-05	-1.318E-04	.539E-05
18.00000	0.00000	0.04263	0.000	300.165	313.262	0.000
(STRAIN)			-1.123E-04	7.845E-05	9.102E-05	-.662E-11
18.00000	3.00000	0.04276	6.043	220.990	197.382	42.855
(STRAIN)			-1.187E-04	8.766E-05	6.499E-05	.823E-04
18.00000	10.50000	0.04310	49.249	119.641	54.949	105.946
(STRAIN)			-7.905E-06	5.545E-05	-2.775E-06	.191E-03
18.00000	18.00000	0.04295	45.879	1.572	-44.671	88.085
(STRAIN)			4.064E-05	7.660E-07	-4.085E-05	.159E-03
18.00000	25.50000	0.04251	23.691	-84.897	-109.823	56.569
(STRAIN)			7.347E-05	-4.380E-05	-7.072E-05	.122E-03
18.00000	33.00000	0.04181	11.276	-176.295	-214.166	2.707
(STRAIN)			1.183E-04	-8.423E-05	-1.251E-04	.585E-05

PERIOD NO. 1 LOAD GROUP NO. 4

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.03860	0.000	75.932	7.725	51.967
	(STRAIN)		-3.237E-05	3.311E-05	-3.237E-05	1.011E-05
1	3.00000	0.03645	0.089	44.324	-4.525	3.056
	(STRAIN)		-1.249E-05	2.998E-05	-1.692E-05	-1.407E-05
1	10.50000	0.03650	0.917	19.593	-8.132	10.388
	(STRAIN)		-4.273E-06	1.254E-05	-1.242E-05	-3.893E-06
1	18.00000	0.03652	2.119	15.725	-6.071	-3.374
	(STRAIN)		4.415E-07	1.269E-05	-6.929E-06	-4.502E-06
1	25.50000	0.03649	3.180	16.191	-21.627	-1.813
	(STRAIN)		5.465E-06	1.952E-05	-2.133E-05	-2.133E-05
1	33.00000	0.03644	3.640	17.927	-40.970	3.351
	(STRAIN)		9.445E-06	2.487E-05	-3.873E-05	-3.873E-05
2	0.00000	0.04268	0.000	104.117	11.525	74.973
	(STRAIN)		-4.485E-05	4.404E-05	-4.485E-05	1.606E-05
2	3.00000	0.04099	0.270	64.581	-1.925	16.015
	(STRAIN)		-2.282E-05	3.892E-05	-2.492E-05	-9.809E-06
2	10.50000	0.04107	1.250	26.815	-10.495	19.650
	(STRAIN)		-7.268E-06	1.574E-05	-1.784E-05	-1.279E-06
2	18.00000	0.04109	2.896	21.771	-11.712	-6.470
	(STRAIN)		1.769E-06	1.876E-05	-1.138E-05	-6.660E-06
2	25.50000	0.04104	4.347	17.053	-32.602	-7.731
	(STRAIN)		1.121E-05	2.494E-05	-2.869E-05	-2.869E-05
2	33.00000	0.04093	4.948	8.311	-60.885	3.161
	(STRAIN)		1.918E-05	2.281E-05	-5.192E-05	-5.192E-05
3	0.00000	0.04714	0.000	139.398	17.828	111.920
	(STRAIN)		-6.183E-05	5.487E-05	-6.183E-05	2.849E-05
3	3.00000	0.04601	0.069	94.455	-2.008	43.072
	(STRAIN)		-3.969E-05	5.092E-05	-4.168E-05	-3.966E-07
3	10.50000	0.04615	1.510	36.769	-14.699	35.877
	(STRAIN)		-1.216E-05	1.957E-05	-2.675E-05	4.180E-06
3	18.00000	0.04619	3.702	31.677	-21.774	-11.759
	(STRAIN)		3.765E-06	2.894E-05	-1.916E-05	-1.015E-05
3	25.50000	0.04609	5.808	20.067	-49.355	-21.319
	(STRAIN)		2.044E-05	3.584E-05	-3.913E-05	-3.913E-05
3	33.00000	0.04588	6.697	7.094	-91.259	-15.075
	(STRAIN)		3.502E-05	3.545E-05	-7.077E-05	-7.077E-05
4	0.00000	0.05232	0.000	210.692	36.291	178.114
	(STRAIN)		-8.986E-05	7.757E-05	-8.986E-05	4.629E-05

4	3.00000	0.05145	0.080	139.055	-2.438	90.777
	(STRAIN)		-6.663E-05	6.679E-05	-6.904E-05	1.803E-05
4	10.50000	0.05171	1.548	67.743	-22.189	49.752
	(STRAIN)		-2.084E-05	3.873E-05	-4.221E-05	1.737E-05
4	18.00000	0.05176	4.822	51.943	-40.169	-21.693
	(STRAIN)		6.655E-06	4.906E-05	-3.384E-05	-1.721E-05
4	25.50000	0.05160	7.820	28.018	-76.050	-50.090
	(STRAIN)		3.592E-05	5.773E-05	-5.466E-05	-5.466E-05
4	33.00000	0.05123	9.138	9.321	-140.667	-57.705
	(STRAIN)		6.280E-05	6.300E-05	-9.899E-05	-9.899E-05
5	0.00000	0.05772	0.000	329.342	92.276	306.572
	(STRAIN)		-1.250E-04	1.026E-04	-1.250E-04	8.071E-05
5	3.00000	0.05752	5.675	216.190	-2.598	213.896
	(STRAIN)		-1.199E-04	8.215E-05	-1.279E-04	7.420E-05
5	10.50000	0.05788	42.156	178.883	-29.386	65.230
	(STRAIN)		-1.216E-05	1.109E-04	-7.655E-05	8.604E-06
5	18.00000	0.05777	39.048	108.207	-66.518	-42.849
	(STRAIN)		3.541E-05	9.766E-05	-5.960E-05	-3.829E-05
5	25.50000	0.05736	22.195	47.833	-116.769	-100.877
	(STRAIN)		7.152E-05	9.921E-05	-7.856E-05	-7.856E-05
5	33.00000	0.05667	12.785	12.868	-224.267	-154.164
	(STRAIN)		1.162E-04	1.163E-04	-1.399E-04	-1.399E-04
6	0.00000	0.06437	520.000	723.341	412.806	708.144
	(STRAIN)		-1.447E-04	1.534E-04	-1.447E-04	1.388E-04
6	3.00000	0.06519	503.012	577.816	500.812	556.892
	(STRAIN)		3.140E-06	7.495E-05	1.027E-06	5.276E-05
6	10.50000	0.06392	313.538	317.534	101.068	101.197
	(STRAIN)		1.609E-04	1.645E-04	-3.033E-05	-3.022E-05
6	18.00000	0.06289	142.862	148.802	-68.990	-54.596
	(STRAIN)		1.227E-04	1.280E-04	-6.797E-05	-6.797E-05
6	25.50000	0.06197	52.397	55.904	-154.597	-133.187
	(STRAIN)		1.215E-04	1.253E-04	-1.020E-04	-1.020E-04
6	33.00000	0.06091	16.324	16.339	-308.201	-263.347
	(STRAIN)		1.731E-04	1.731E-04	-1.774E-04	-1.774E-04
7	0.00000	0.06357	0.000	477.684	159.121	458.216
	(STRAIN)		-1.684E-04	1.374E-04	-1.684E-04	1.187E-04
7	3.00000	0.06377	11.159	342.806	11.159	298.982
	(STRAIN)		-1.808E-04	1.376E-04	-1.808E-04	9.549E-05
7	10.50000	0.06425	82.498	181.160	82.411	82.476
	(STRAIN)		-6.496E-06	8.230E-05	-6.574E-06	-6.594E-06
7	18.00000	0.06400	73.474	73.474	-67.772	0.452
	(STRAIN)		6.469E-05	6.469E-05	-6.243E-05	-6.243E-05
7	25.50000	0.06332	36.938	36.938	-164.914	-128.908
	(STRAIN)		1.118E-04	1.118E-04	-1.062E-04	-1.062E-04
7	33.00000	0.06226	16.920	16.920	-322.367	-268.028
	(STRAIN)		1.788E-04	1.788E-04	-1.876E-04	-1.876E-04
8	0.00000	0.06437	520.000	723.341	412.806	708.144
	(STRAIN)		-1.447E-04	1.534E-04	-1.447E-04	1.388E-04
8	3.00000	0.06519	503.012	577.816	500.812	556.892
	(STRAIN)		3.140E-06	7.495E-05	1.027E-06	5.276E-05
8	10.50000	0.06392	313.538	317.534	101.068	101.197
	(STRAIN)		1.609E-04	1.645E-04	-3.033E-05	-3.022E-05
8	18.00000	0.06289	142.862	148.802	-68.990	-54.596
	(STRAIN)		1.227E-04	1.280E-04	-6.797E-05	-6.797E-05
8	25.50000	0.06197	52.397	55.904	-154.597	-133.187
	(STRAIN)		1.215E-04	1.253E-04	-1.020E-04	-1.020E-04
8	33.00000	0.06091	16.324	16.339	-308.201	-263.347
	(STRAIN)		1.731E-04	1.731E-04	-1.774E-04	-1.774E-04
9	0.00000	0.05772	0.000	329.342	92.276	306.572

	(STRAIN)		-1.250E-04	1.026E-04	-1.250E-04	8.071E-05
9	3.00000	0.05752	5.675	216.190	-2.598	213.896
	(STRAIN)		-1.199E-04	8.215E-05	-1.279E-04	7.420E-05
9	10.50000	0.05788	42.156	178.883	-29.386	65.230
	(STRAIN)		-1.216E-05	1.109E-04	-7.655E-05	8.604E-06
9	18.00000	0.05777	39.048	108.207	-66.518	-42.849
	(STRAIN)		3.541E-05	9.766E-05	-5.960E-05	-3.829E-05
9	25.50000	0.05736	22.195	47.833	-116.769	-100.877
	(STRAIN)		7.152E-05	9.921E-05	-7.856E-05	-7.856E-05
9	33.00000	0.05667	12.785	12.868	-224.267	-154.164
	(STRAIN)		1.162E-04	1.163E-04	-1.399E-04	-1.399E-04
10	0.00000	0.05232	0.000	210.692	36.291	178.114
	(STRAIN)		-8.986E-05	7.757E-05	-8.986E-05	4.629E-05
10	3.00000	0.05145	0.080	139.055	-2.438	90.777
	(STRAIN)		-6.663E-05	6.679E-05	-6.904E-05	1.803E-05
10	10.50000	0.05171	1.548	67.743	-22.189	49.752
	(STRAIN)		-2.084E-05	3.873E-05	-4.221E-05	1.737E-05
10	18.00000	0.05176	4.822	51.943	-40.169	-21.693
	(STRAIN)		6.655E-06	4.906E-05	-3.384E-05	-1.721E-05
10	25.50000	0.05160	7.820	28.018	-76.050	-50.090
	(STRAIN)		3.592E-05	5.773E-05	-5.466E-05	-5.466E-05
10	33.00000	0.05123	9.138	9.321	-140.667	-57.705
	(STRAIN)		6.280E-05	6.300E-05	-9.899E-05	-9.899E-05
11	0.00000	0.04714	0.000	139.398	17.828	111.920
	(STRAIN)		-6.183E-05	5.487E-05	-6.183E-05	2.849E-05
11	3.00000	0.04601	0.069	94.455	-2.008	43.072
	(STRAIN)		-3.969E-05	5.092E-05	-4.168E-05	-3.966E-07
11	10.50000	0.04615	1.510	36.769	-14.699	35.877
	(STRAIN)		-1.216E-05	1.957E-05	-2.675E-05	4.180E-06
11	18.00000	0.04619	3.702	31.677	-21.774	-11.759
	(STRAIN)		3.765E-06	2.894E-05	-1.916E-05	-1.015E-05
11	25.50000	0.04609	5.808	20.067	-49.355	-21.319
	(STRAIN)		2.044E-05	3.584E-05	-3.913E-05	-3.913E-05
11	33.00000	0.04588	6.697	7.094	-91.259	-15.075
	(STRAIN)		3.502E-05	3.545E-05	-7.077E-05	-7.077E-05
12	0.00000	0.04268	0.000	104.117	11.525	74.973
	(STRAIN)		-4.485E-05	4.404E-05	-4.485E-05	1.606E-05
12	3.00000	0.04099	0.270	64.581	-1.925	16.015
	(STRAIN)		-2.282E-05	3.892E-05	-2.492E-05	-9.809E-06
12	10.50000	0.04107	1.250	26.815	-10.495	19.650
	(STRAIN)		-7.268E-06	1.574E-05	-1.784E-05	-1.279E-06
12	18.00000	0.04109	2.896	21.771	-11.712	-6.470
	(STRAIN)		1.769E-06	1.876E-05	-1.138E-05	-6.660E-06
12	25.50000	0.04104	4.347	17.053	-32.602	-7.731
	(STRAIN)		1.121E-05	2.494E-05	-2.869E-05	-2.869E-05
12	33.00000	0.04093	4.948	8.311	-60.885	3.161
	(STRAIN)		1.918E-05	2.281E-05	-5.192E-05	-5.192E-05

PERIOD NO. 1 LOAD GROUP NO. 5

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.04453	0.000	87.614	8.913	59.962
	(STRAIN)		-3.735E-05	3.821E-05	-3.735E-05	1.166E-05
1	3.00000	0.04206	0.102	51.143	-5.222	3.527
	(STRAIN)		-1.441E-05	3.459E-05	-1.952E-05	-1.623E-05
1	10.50000	0.04212	1.058	22.607	-9.383	11.986

	(STRAIN)		-4.930E-06	1.446E-05	-1.433E-05	-4.492E-06
1	18.00000	0.04213	2.445	18.144	-7.005	-3.893
	(STRAIN)		5.094E-07	1.464E-05	-7.995E-06	-5.194E-06
1	25.50000	0.04211	3.670	18.682	-24.954	-2.092
	(STRAIN)		6.305E-06	2.252E-05	-2.461E-05	-2.461E-05
1	33.00000	0.04204	4.200	20.685	-47.273	3.866
	(STRAIN)		1.090E-05	2.870E-05	-4.469E-05	-4.469E-05
2	0.00000	0.04925	0.000	120.135	13.299	86.507
	(STRAIN)		-5.175E-05	5.081E-05	-5.175E-05	1.853E-05
2	3.00000	0.04729	0.311	74.516	-2.221	18.479
	(STRAIN)		-2.633E-05	4.491E-05	-2.876E-05	-1.132E-05
2	10.50000	0.04739	1.443	30.940	-12.109	22.673
	(STRAIN)		-8.386E-06	1.816E-05	-2.058E-05	-1.476E-06
2	18.00000	0.04742	3.342	25.120	-13.514	-7.466
	(STRAIN)		2.041E-06	2.164E-05	-1.313E-05	-7.685E-06
2	25.50000	0.04736	5.016	19.676	-37.618	-8.920
	(STRAIN)		1.294E-05	2.877E-05	-3.311E-05	-3.311E-05
2	33.00000	0.04722	5.710	9.589	-70.252	3.648
	(STRAIN)		2.213E-05	2.632E-05	-5.991E-05	-5.991E-05
3	0.00000	0.05440	0.000	160.844	20.571	129.138
	(STRAIN)		-7.135E-05	6.331E-05	-7.135E-05	3.288E-05
3	3.00000	0.05308	0.079	108.986	-2.317	49.699
	(STRAIN)		-4.579E-05	5.876E-05	-4.809E-05	-4.576E-07
3	10.50000	0.05325	1.742	42.426	-16.960	41.397
	(STRAIN)		-1.403E-05	2.258E-05	-3.087E-05	4.823E-06
3	18.00000	0.05329	4.271	36.551	-25.124	-13.569
	(STRAIN)		4.344E-06	3.340E-05	-2.211E-05	-1.171E-05
3	25.50000	0.05318	6.702	23.154	-56.948	-24.599
	(STRAIN)		2.359E-05	4.136E-05	-4.515E-05	-4.515E-05
3	33.00000	0.05294	7.728	8.185	-105.299	-17.394
	(STRAIN)		4.041E-05	4.090E-05	-8.166E-05	-8.166E-05
4	0.00000	0.06037	0.000	243.106	41.875	205.516
	(STRAIN)		-1.037E-04	8.950E-05	-1.037E-04	5.342E-05
4	3.00000	0.05937	0.093	160.448	-2.813	104.743
	(STRAIN)		-7.688E-05	7.707E-05	-7.966E-05	2.080E-05
4	10.50000	0.05966	1.786	78.165	-25.603	57.406
	(STRAIN)		-2.405E-05	4.469E-05	-4.870E-05	2.004E-05
4	18.00000	0.05972	5.564	59.934	-46.349	-25.031
	(STRAIN)		7.679E-06	5.661E-05	-3.904E-05	-1.986E-05
4	25.50000	0.05954	9.023	32.329	-87.750	-57.796
	(STRAIN)		4.145E-05	6.662E-05	-6.307E-05	-6.307E-05
4	33.00000	0.05911	10.544	10.755	-162.308	-66.583
	(STRAIN)		7.247E-05	7.269E-05	-1.142E-04	-1.142E-04
5	0.00000	0.06660	0.000	380.011	106.473	353.736
	(STRAIN)		-1.443E-04	1.183E-04	-1.443E-04	9.312E-05
5	3.00000	0.06637	6.548	249.451	-2.998	246.802
	(STRAIN)		-1.384E-04	9.478E-05	-1.476E-04	8.562E-05
5	10.50000	0.06678	48.641	206.404	-33.907	75.265
	(STRAIN)		-1.403E-05	1.280E-04	-8.833E-05	9.928E-06
5	18.00000	0.06666	45.055	124.855	-76.752	-49.441
	(STRAIN)		4.086E-05	1.127E-04	-6.876E-05	-4.418E-05
5	25.50000	0.06619	25.610	55.192	-134.733	-116.396
	(STRAIN)		8.252E-05	1.145E-04	-9.065E-05	-9.065E-05
5	33.00000	0.06539	14.752	14.848	-258.770	-177.881
	(STRAIN)		1.340E-04	1.341E-04	-1.614E-04	-1.614E-04
6	0.00000	0.07427	600.000	834.633	476.315	817.081
	(STRAIN)		-1.670E-04	1.770E-04	-1.670E-04	1.602E-04
6	3.00000	0.07522	580.399	666.675	577.850	642.613
	(STRAIN)		3.623E-06	8.645E-05	1.175E-06	6.087E-05

6	10.50000	0.07376	361.774	366.385	116.639	116.744
	(STRAIN)		1.857E-04	1.898E-04	-3.497E-05	-3.487E-05
6	18.00000	0.07257	164.840	171.694	-79.604	-62.996
	(STRAIN)		1.416E-04	1.477E-04	-7.843E-05	-7.843E-05
6	25.50000	0.07150	60.458	64.505	-178.381	-153.678
	(STRAIN)		1.402E-04	1.446E-04	-1.177E-04	-1.177E-04
6	33.00000	0.07028	18.835	18.852	-355.616	-303.862
	(STRAIN)		1.997E-04	1.997E-04	-2.047E-04	-2.047E-04
7	0.00000	0.07334	0.000	551.171	183.601	528.713
	(STRAIN)		-1.944E-04	1.585E-04	-1.944E-04	1.369E-04
7	3.00000	0.07358	12.875	395.545	12.875	344.979
	(STRAIN)		-2.086E-04	1.587E-04	-2.086E-04	1.102E-04
7	10.50000	0.07413	95.190	209.031	95.063	95.191
	(STRAIN)		-7.496E-06	9.496E-05	-7.609E-06	-7.608E-06
7	18.00000	0.07385	84.777	84.777	-78.199	0.521
	(STRAIN)		7.464E-05	7.464E-05	-7.204E-05	-7.204E-05
7	25.50000	0.07306	42.621	42.621	-190.285	-148.740
	(STRAIN)		1.290E-04	1.290E-04	-1.225E-04	-1.225E-04
7	33.00000	0.07184	19.523	19.523	-371.962	-309.263
	(STRAIN)		2.064E-04	2.064E-04	-2.164E-04	-2.164E-04
8	0.00000	0.07427	600.000	834.633	476.315	817.081
	(STRAIN)		-1.670E-04	1.770E-04	-1.670E-04	1.602E-04
8	3.00000	0.07522	580.399	666.675	577.850	642.613
	(STRAIN)		3.623E-06	8.645E-05	1.175E-06	6.087E-05
8	10.50000	0.07376	361.774	366.385	116.639	116.744
	(STRAIN)		1.857E-04	1.898E-04	-3.497E-05	-3.487E-05
8	18.00000	0.07257	164.840	171.694	-79.604	-62.996
	(STRAIN)		1.416E-04	1.477E-04	-7.843E-05	-7.843E-05
8	25.50000	0.07150	60.458	64.505	-178.381	-153.678
	(STRAIN)		1.402E-04	1.446E-04	-1.177E-04	-1.177E-04
8	33.00000	0.07028	18.835	18.852	-355.616	-303.862
	(STRAIN)		1.997E-04	1.997E-04	-2.047E-04	-2.047E-04
9	0.00000	0.06660	0.000	380.011	106.473	353.736
	(STRAIN)		-1.443E-04	1.183E-04	-1.443E-04	9.312E-05
9	3.00000	0.06637	6.548	249.451	-2.998	246.802
	(STRAIN)		-1.384E-04	9.478E-05	-1.476E-04	8.562E-05
9	10.50000	0.06678	48.641	206.404	-33.907	75.265
	(STRAIN)		-1.403E-05	1.280E-04	-8.833E-05	9.928E-06
9	18.00000	0.06666	45.055	124.855	-76.752	-49.441
	(STRAIN)		4.086E-05	1.127E-04	-6.876E-05	-4.418E-05
9	25.50000	0.06619	25.610	55.192	-134.733	-116.396
	(STRAIN)		8.252E-05	1.145E-04	-9.065E-05	-9.065E-05
9	33.00000	0.06539	14.752	14.848	-258.770	-177.881
	(STRAIN)		1.340E-04	1.341E-04	-1.614E-04	-1.614E-04
10	0.00000	0.06037	0.000	243.106	41.875	205.516
	(STRAIN)		-1.037E-04	8.950E-05	-1.037E-04	5.342E-05
10	3.00000	0.05937	0.093	160.448	-2.813	104.743
	(STRAIN)		-7.688E-05	7.707E-05	-7.966E-05	2.080E-05
10	10.50000	0.05966	1.786	78.165	-25.603	57.406
	(STRAIN)		-2.405E-05	4.469E-05	-4.870E-05	2.004E-05
10	18.00000	0.05972	5.564	59.934	-46.349	-25.031
	(STRAIN)		7.679E-06	5.661E-05	-3.904E-05	-1.986E-05
10	25.50000	0.05954	9.023	32.329	-87.750	-57.796
	(STRAIN)		4.145E-05	6.662E-05	-6.307E-05	-6.307E-05
10	33.00000	0.05911	10.544	10.755	-162.308	-66.583
	(STRAIN)		7.247E-05	7.269E-05	-1.142E-04	-1.142E-04
11	0.00000	0.05440	0.000	160.844	20.571	129.138
	(STRAIN)		-7.135E-05	6.331E-05	-7.135E-05	3.288E-05
11	3.00000	0.05308	0.079	108.986	-2.317	49.699

	(STRAIN)		-4.579E-05	5.876E-05	-4.809E-05	-4.576E-07
11	10.50000	0.05325	1.742	42.426	-16.960	41.397
	(STRAIN)		-1.403E-05	2.258E-05	-3.087E-05	4.823E-06
11	18.00000	0.05329	4.271	36.551	-25.124	-13.569
	(STRAIN)		4.344E-06	3.340E-05	-2.211E-05	-1.171E-05
11	25.50000	0.05318	6.702	23.154	-56.948	-24.599
	(STRAIN)		2.359E-05	4.136E-05	-4.515E-05	-4.515E-05
11	33.00000	0.05294	7.728	8.185	-105.299	-17.394
	(STRAIN)		4.041E-05	4.090E-05	-8.166E-05	-8.166E-05
12	0.00000	0.04925	0.000	120.135	13.299	86.507
	(STRAIN)		-5.175E-05	5.081E-05	-5.175E-05	1.853E-05
12	3.00000	0.04729	0.311	74.516	-2.221	18.479
	(STRAIN)		-2.633E-05	4.491E-05	-2.876E-05	-1.132E-05
12	10.50000	0.04739	1.443	30.940	-12.109	22.673
	(STRAIN)		-8.386E-06	1.816E-05	-2.058E-05	-1.476E-06
12	18.00000	0.04742	3.342	25.120	-13.514	-7.466
	(STRAIN)		2.041E-06	2.164E-05	-1.313E-05	-7.685E-06
12	25.50000	0.04736	5.016	19.676	-37.618	-8.920
	(STRAIN)		1.294E-05	2.877E-05	-3.311E-05	-3.311E-05
12	33.00000	0.04722	5.710	9.589	-70.252	3.648
	(STRAIN)		2.213E-05	2.632E-05	-5.991E-05	-5.991E-05

PERIOD NO. 1 LOAD GROUP NO. 6

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.05196	0.000	102.216	10.398	69.956
	(STRAIN)		-4.357E-05	4.457E-05	-4.357E-05	1.360E-05
1	3.00000	0.04907	0.119	59.666	-6.092	4.114
	(STRAIN)		-1.681E-05	4.036E-05	-2.277E-05	-1.894E-05
1	10.50000	0.04914	1.235	26.375	-10.946	13.984
	(STRAIN)		-5.752E-06	1.687E-05	-1.671E-05	-5.241E-06
1	18.00000	0.04916	2.852	21.168	-8.173	-4.541
	(STRAIN)		5.943E-07	1.708E-05	-9.328E-06	-6.060E-06
1	25.50000	0.04912	4.281	21.796	-29.113	-2.441
	(STRAIN)		7.356E-06	2.627E-05	-2.871E-05	-2.871E-05
1	33.00000	0.04905	4.900	24.132	-55.152	4.511
	(STRAIN)		1.271E-05	3.349E-05	-5.214E-05	-5.214E-05
2	0.00000	0.05746	0.000	140.158	15.515	100.925
	(STRAIN)		-6.037E-05	5.928E-05	-6.037E-05	2.162E-05
2	3.00000	0.05517	0.363	86.935	-2.591	21.558
	(STRAIN)		-3.072E-05	5.239E-05	-3.355E-05	-1.320E-05
2	10.50000	0.05529	1.683	36.097	-14.128	26.451
	(STRAIN)		-9.783E-06	2.119E-05	-2.401E-05	-1.722E-06
2	18.00000	0.05532	3.899	29.307	-15.766	-8.710
	(STRAIN)		2.382E-06	2.525E-05	-1.532E-05	-8.966E-06
2	25.50000	0.05525	5.852	22.955	-43.888	-10.407
	(STRAIN)		1.509E-05	3.357E-05	-3.862E-05	-3.862E-05
2	33.00000	0.05510	6.661	11.187	-81.961	4.256
	(STRAIN)		2.582E-05	3.071E-05	-6.989E-05	-6.989E-05
3	0.00000	0.06346	0.000	187.651	23.999	150.661
	(STRAIN)		-8.324E-05	7.387E-05	-8.324E-05	3.836E-05
3	3.00000	0.06193	0.092	127.151	-2.704	57.982
	(STRAIN)		-5.342E-05	6.855E-05	-5.611E-05	-5.339E-07
3	10.50000	0.06213	2.033	49.497	-19.787	48.296
	(STRAIN)		-1.637E-05	2.635E-05	-3.601E-05	5.627E-06
3	18.00000	0.06217	4.983	42.642	-29.311	-15.830

	(STRAIN)		5.068E-06	3.896E-05	-2.580E-05	-1.366E-05
3	25.50000	0.06205	7.819	27.013	-66.440	-28.699
	(STRAIN)		2.752E-05	4.825E-05	-5.268E-05	-5.268E-05
3	33.00000	0.06177	9.016	9.549	-122.849	-20.294
	(STRAIN)		4.714E-05	4.772E-05	-9.527E-05	-9.527E-05
4	0.00000	0.07043	0.000	283.624	48.854	239.769
	(STRAIN)		-1.210E-04	1.044E-04	-1.210E-04	6.232E-05
4	3.00000	0.06927	0.108	187.189	-3.281	122.200
	(STRAIN)		-8.969E-05	8.991E-05	-9.294E-05	2.427E-05
4	10.50000	0.06960	2.084	91.192	-29.870	66.973
	(STRAIN)		-2.806E-05	5.214E-05	-5.682E-05	2.338E-05
4	18.00000	0.06968	6.492	69.923	-54.074	-29.202
	(STRAIN)		8.958E-06	6.605E-05	-4.555E-05	-2.317E-05
4	25.50000	0.06946	10.527	37.717	-102.376	-67.429
	(STRAIN)		4.835E-05	7.772E-05	-7.358E-05	-7.358E-05
4	33.00000	0.06896	12.301	12.547	-189.360	-77.680
	(STRAIN)		8.454E-05	8.481E-05	-1.333E-04	-1.333E-04
5	0.00000	0.07770	0.000	443.347	124.218	412.692
	(STRAIN)		-1.683E-04	1.381E-04	-1.683E-04	1.086E-04
5	3.00000	0.07744	7.639	291.027	-3.497	287.935
	(STRAIN)		-1.615E-04	1.106E-04	-1.722E-04	9.989E-05
5	10.50000	0.07791	56.748	240.805	-39.559	87.809
	(STRAIN)		-1.637E-05	1.493E-04	-1.030E-04	1.158E-05
5	18.00000	0.07777	52.564	145.664	-89.544	-57.681
	(STRAIN)		4.767E-05	1.315E-04	-8.023E-05	-5.155E-05
5	25.50000	0.07722	29.878	64.391	-157.189	-135.796
	(STRAIN)		9.627E-05	1.335E-04	-1.058E-04	-1.058E-04
5	33.00000	0.07629	17.211	17.323	-301.898	-207.528
	(STRAIN)		1.564E-04	1.565E-04	-1.883E-04	-1.883E-04
6	0.00000	0.08665	700.000	973.753	555.701	953.245
	(STRAIN)		-1.948E-04	2.065E-04	-1.948E-04	1.869E-04
6	3.00000	0.08775	677.132	777.840	674.174	749.647
	(STRAIN)		4.226E-06	1.009E-04	1.386E-06	7.102E-05
6	10.50000	0.08605	422.070	427.450	136.060	136.220
	(STRAIN)		2.166E-04	2.214E-04	-4.082E-05	-4.068E-05
6	18.00000	0.08466	192.314	200.310	-92.871	-73.495
	(STRAIN)		1.652E-04	1.724E-04	-9.150E-05	-9.150E-05
6	25.50000	0.08341	70.534	75.256	-208.111	-179.291
	(STRAIN)		1.636E-04	1.687E-04	-1.374E-04	-1.374E-04
6	33.00000	0.08200	21.974	21.994	-414.886	-354.506
	(STRAIN)		2.330E-04	2.330E-04	-2.388E-04	-2.388E-04
7	0.00000	0.08557	0.000	643.033	214.202	616.833
	(STRAIN)		-2.268E-04	1.849E-04	-2.268E-04	1.598E-04
7	3.00000	0.08584	15.021	461.469	15.021	402.476
	(STRAIN)		-2.434E-04	1.852E-04	-2.434E-04	1.285E-04
7	10.50000	0.08649	111.055	243.869	110.924	111.040
	(STRAIN)		-8.745E-06	1.108E-04	-8.863E-06	-8.876E-06
7	18.00000	0.08616	98.907	98.907	-91.232	0.608
	(STRAIN)		8.708E-05	8.708E-05	-8.404E-05	-8.404E-05
7	25.50000	0.08524	49.725	49.725	-222.000	-173.530
	(STRAIN)		1.505E-04	1.505E-04	-1.429E-04	-1.429E-04
7	33.00000	0.08381	22.777	22.777	-433.956	-360.806
	(STRAIN)		2.408E-04	2.408E-04	-2.525E-04	-2.525E-04
8	0.00000	0.08665	700.000	973.753	555.701	953.245
	(STRAIN)		-1.948E-04	2.065E-04	-1.948E-04	1.869E-04
8	3.00000	0.08775	677.132	777.840	674.174	749.647
	(STRAIN)		4.226E-06	1.009E-04	1.386E-06	7.102E-05
8	10.50000	0.08605	422.070	427.450	136.060	136.220
	(STRAIN)		2.166E-04	2.214E-04	-4.082E-05	-4.068E-05

8	18.00000	0.08466	192.314	200.310	-92.871	-73.495
	(STRAIN)		1.652E-04	1.724E-04	-9.150E-05	-9.150E-05
8	25.50000	0.08341	70.534	75.256	-208.111	-179.291
	(STRAIN)		1.636E-04	1.687E-04	-1.374E-04	-1.374E-04
8	33.00000	0.08200	21.974	21.994	-414.886	-354.506
	(STRAIN)		2.330E-04	2.330E-04	-2.388E-04	-2.388E-04
9	0.00000	0.07770	0.000	443.347	124.218	412.692
	(STRAIN)		-1.683E-04	1.381E-04	-1.683E-04	1.086E-04
9	3.00000	0.07744	7.639	291.027	-3.497	287.935
	(STRAIN)		-1.615E-04	1.106E-04	-1.722E-04	9.989E-05
9	10.50000	0.07791	56.748	240.805	-39.559	87.809
	(STRAIN)		-1.637E-05	1.493E-04	-1.030E-04	1.158E-05
9	18.00000	0.07777	52.564	145.664	-89.544	-57.681
	(STRAIN)		4.767E-05	1.315E-04	-8.023E-05	-5.155E-05
9	25.50000	0.07722	29.878	64.391	-157.189	-135.796
	(STRAIN)		9.627E-05	1.335E-04	-1.058E-04	-1.058E-04
9	33.00000	0.07629	17.211	17.323	-301.898	-207.528
	(STRAIN)		1.564E-04	1.565E-04	-1.883E-04	-1.883E-04
10	0.00000	0.07043	0.000	283.624	48.854	239.769
	(STRAIN)		-1.210E-04	1.044E-04	-1.210E-04	6.232E-05
10	3.00000	0.06927	0.108	187.189	-3.281	122.200
	(STRAIN)		-8.969E-05	8.991E-05	-9.294E-05	2.427E-05
10	10.50000	0.06960	2.084	91.192	-29.870	66.973
	(STRAIN)		-2.806E-05	5.214E-05	-5.682E-05	2.338E-05
10	18.00000	0.06968	6.492	69.923	-54.074	-29.202
	(STRAIN)		8.958E-06	6.605E-05	-4.555E-05	-2.317E-05
10	25.50000	0.06946	10.527	37.717	-102.376	-67.429
	(STRAIN)		4.835E-05	7.772E-05	-7.358E-05	-7.358E-05
10	33.00000	0.06896	12.301	12.547	-189.360	-77.680
	(STRAIN)		8.454E-05	8.481E-05	-1.333E-04	-1.333E-04
11	0.00000	0.06346	0.000	187.651	23.999	150.661
	(STRAIN)		-8.324E-05	7.387E-05	-8.324E-05	3.836E-05
11	3.00000	0.06193	0.092	127.151	-2.704	57.982
	(STRAIN)		-5.342E-05	6.855E-05	-5.611E-05	-5.339E-07
11	10.50000	0.06213	2.033	49.497	-19.787	48.296
	(STRAIN)		-1.637E-05	2.635E-05	-3.601E-05	5.627E-06
11	18.00000	0.06217	4.983	42.642	-29.311	-15.830
	(STRAIN)		5.068E-06	3.896E-05	-2.580E-05	-1.366E-05
11	25.50000	0.06205	7.819	27.013	-66.440	-28.699
	(STRAIN)		2.752E-05	4.825E-05	-5.268E-05	-5.268E-05
11	33.00000	0.06177	9.016	9.549	-122.849	-20.294
	(STRAIN)		4.714E-05	4.772E-05	-9.527E-05	-9.527E-05
12	0.00000	0.05746	0.000	140.158	15.515	100.925
	(STRAIN)		-6.037E-05	5.928E-05	-6.037E-05	2.162E-05
12	3.00000	0.05517	0.363	86.935	-2.591	21.558
	(STRAIN)		-3.072E-05	5.239E-05	-3.355E-05	-1.320E-05
12	10.50000	0.05529	1.683	36.097	-14.128	26.451
	(STRAIN)		-9.783E-06	2.119E-05	-2.401E-05	-1.722E-06
12	18.00000	0.05532	3.899	29.307	-15.766	-8.710
	(STRAIN)		2.382E-06	2.525E-05	-1.532E-05	-8.966E-06
12	25.50000	0.05525	5.852	22.955	-43.888	-10.407
	(STRAIN)		1.509E-05	3.357E-05	-3.862E-05	-3.862E-05
12	33.00000	0.05510	6.661	11.187	-81.961	4.256
	(STRAIN)		2.582E-05	3.071E-05	-6.989E-05	-6.989E-05

PERIOD NO. 1 LOAD GROUP NO. 7

POINT	VERTICAL	VERTICAL	VERTICAL	MAJOR PRINCIPAL	MINOR PRINCIAL	INTERMEDIATE P. STRESS

NO.	COORDINATE	DISP.	STRESS (STRAIN)	STRESS (STRAIN)	STRESS (STRAIN)	(HORIZONTAL P. STRAIN)
1	0.00000	0.06732	0.000	102.075	10.838	77.131
	(STRAIN)		-4.534E-05	4.225E-05	-4.534E-05	1.478E-05
1	3.00000	0.06174	-0.267	44.811	-7.709	1.977
	(STRAIN)		-1.172E-05	3.156E-05	-1.886E-05	-2.656E-05
1	10.50000	0.06179	1.218	22.030	-9.122	11.288
	(STRAIN)		-4.549E-06	1.418E-05	-1.386E-05	-8.800E-06
1	18.00000	0.06181	2.825	19.685	-5.906	-0.069
	(STRAIN)		-6.563E-07	1.452E-05	-8.515E-06	-4.918E-06
1	25.50000	0.06179	4.256	22.100	-18.234	-0.546
	(STRAIN)		3.667E-06	2.294E-05	-2.062E-05	-2.775E-05
1	33.00000	0.06176	4.899	27.132	-36.423	4.535
	(STRAIN)		6.623E-06	3.063E-05	-3.801E-05	-5.088E-05
2	0.00000	0.07298	0.000	133.229	15.101	105.587
	(STRAIN)		-5.999E-05	5.342E-05	-5.999E-05	2.315E-05
2	3.00000	0.06806	-0.081	64.449	-2.502	16.722
	(STRAIN)		-2.315E-05	3.880E-05	-2.548E-05	-1.994E-05
2	10.50000	0.06815	1.627	29.845	-10.903	21.150
	(STRAIN)		-7.890E-06	1.751E-05	-1.917E-05	-5.415E-06
2	18.00000	0.06817	3.777	25.689	-11.871	-2.537
	(STRAIN)		7.669E-07	2.049E-05	-1.332E-05	-6.635E-06
2	25.50000	0.06813	5.680	21.064	-28.101	-6.678
	(STRAIN)		9.974E-06	2.659E-05	-2.651E-05	-3.407E-05
2	33.00000	0.06803	6.502	12.854	-54.334	4.786
	(STRAIN)		1.730E-05	2.416E-05	-4.841E-05	-6.213E-05
3	0.00000	0.07892	0.000	171.638	21.892	148.230
	(STRAIN)		-7.923E-05	6.452E-05	-7.923E-05	3.776E-05
3	3.00000	0.07477	-0.161	93.282	-2.193	49.007
	(STRAIN)		-4.125E-05	4.846E-05	-4.320E-05	-6.758E-06
3	10.50000	0.07492	1.964	43.972	-14.491	34.602
	(STRAIN)		-1.318E-05	2.462E-05	-2.799E-05	8.967E-07
3	18.00000	0.07496	4.756	35.337	-22.332	-7.026
	(STRAIN)		2.885E-06	3.041E-05	-2.149E-05	-9.195E-06
3	25.50000	0.07487	7.405	22.676	-43.317	-21.799
	(STRAIN)		1.988E-05	3.637E-05	-3.490E-05	-4.214E-05
3	33.00000	0.07467	8.554	9.118	-81.732	-16.826
	(STRAIN)		3.428E-05	3.489E-05	-6.323E-05	-7.658E-05
4	0.00000	0.08540	0.000	244.947	40.833	220.925
	(STRAIN)		-1.094E-04	8.652E-05	-1.094E-04	5.988E-05
4	3.00000	0.08170	0.030	136.737	-2.343	102.417
	(STRAIN)		-6.944E-05	6.180E-05	-7.171E-05	1.636E-05
4	10.50000	0.08197	2.072	76.404	-21.333	48.421
	(STRAIN)		-2.228E-05	4.462E-05	-4.335E-05	1.131E-05
4	18.00000	0.08203	6.048	55.032	-41.064	-16.014
	(STRAIN)		5.921E-06	5.001E-05	-3.648E-05	-1.473E-05
4	25.50000	0.08187	9.670	29.687	-68.465	-52.783
	(STRAIN)		3.608E-05	5.770E-05	-4.831E-05	-5.380E-05
4	33.00000	0.08150	11.280	11.516	-127.347	-66.659
	(STRAIN)		6.328E-05	6.353E-05	-8.644E-05	-9.799E-05
5	0.00000	0.09183	0.000	366.045	97.228	354.165
	(STRAIN)		-1.464E-04	1.116E-04	-1.464E-04	9.647E-05
5	3.00000	0.08895	5.792	241.059	-1.925	202.107
	(STRAIN)		-1.239E-04	1.020E-04	-1.313E-04	5.674E-05
5	10.50000	0.08932	42.743	187.897	-26.747	63.569
	(STRAIN)		-1.397E-05	1.167E-04	-7.651E-05	3.319E-06
5	18.00000	0.08922	40.414	110.562	-67.592	-36.287
	(STRAIN)		3.481E-05	9.795E-05	-6.239E-05	-3.451E-05
5	25.50000	0.08881	24.253	49.098	-112.198	-101.674

	(STRAIN)		7.233E-05	9.916E-05	-7.504E-05	-7.390E-05
5	33.00000	0.08811	15.166	15.271	-207.958	-169.339
	(STRAIN)		1.177E-04	1.179E-04	-1.232E-04	-1.332E-04
6	0.00000	0.09915	520.000	763.086	418.038	757.589
	(STRAIN)		-1.674E-04	1.639E-04	-1.674E-04	1.563E-04
6	3.00000	0.09737	503.239	584.707	501.557	566.031
	(STRAIN)		-1.564E-06	7.665E-05	-3.178E-06	5.450E-05
6	10.50000	0.09612	314.166	318.708	98.047	114.284
	(STRAIN)		1.588E-04	1.629E-04	-3.567E-05	-3.594E-05
6	18.00000	0.09510	144.319	150.638	-62.001	-55.629
	(STRAIN)		1.222E-04	1.279E-04	-6.350E-05	-6.370E-05
6	25.50000	0.09417	54.596	58.155	-146.784	-139.311
	(STRAIN)		1.228E-04	1.266E-04	-9.470E-05	-9.675E-05
6	33.00000	0.09310	18.863	18.889	-292.963	-279.747
	(STRAIN)		1.754E-04	1.755E-04	-1.613E-04	-1.684E-04
7	0.00000	0.09858	0.000	513.909	164.453	512.917
	(STRAIN)		-1.916E-04	1.439E-04	-1.916E-04	1.430E-04
7	3.00000	0.09621	11.422	371.264	11.406	288.138
	(STRAIN)		-1.858E-04	1.596E-04	-1.858E-04	7.983E-05
7	10.50000	0.09671	83.140	194.819	75.818	87.098
	(STRAIN)		-8.645E-06	9.187E-05	-1.524E-05	-1.167E-05
7	18.00000	0.09647	74.969	75.257	-60.719	-0.615
	(STRAIN)		6.422E-05	6.448E-05	-5.790E-05	-5.764E-05
7	25.50000	0.09579	39.186	39.315	-150.779	-141.883
	(STRAIN)		1.133E-04	1.134E-04	-9.190E-05	-9.177E-05
7	33.00000	0.09471	19.515	19.523	-299.110	-293.292
	(STRAIN)		1.815E-04	1.815E-04	-1.626E-04	-1.626E-04
8	0.00000	0.09915	520.000	763.086	418.038	757.589
	(STRAIN)		-1.674E-04	1.639E-04	-1.674E-04	1.563E-04
8	3.00000	0.09737	503.239	584.707	501.557	566.031
	(STRAIN)		-1.564E-06	7.665E-05	-3.178E-06	5.450E-05
8	10.50000	0.09612	314.166	318.708	98.047	114.284
	(STRAIN)		1.588E-04	1.629E-04	-3.567E-05	-3.594E-05
8	18.00000	0.09510	144.319	150.638	-62.001	-55.629
	(STRAIN)		1.222E-04	1.279E-04	-6.350E-05	-6.370E-05
8	25.50000	0.09417	54.596	58.155	-146.784	-139.311
	(STRAIN)		1.228E-04	1.266E-04	-9.470E-05	-9.675E-05
8	33.00000	0.09310	18.863	18.889	-292.963	-279.747
	(STRAIN)		1.754E-04	1.755E-04	-1.613E-04	-1.684E-04
9	0.00000	0.09183	0.000	366.045	97.228	354.165
	(STRAIN)		-1.464E-04	1.116E-04	-1.464E-04	9.647E-05
9	3.00000	0.08895	5.792	241.059	-1.925	202.107
	(STRAIN)		-1.239E-04	1.020E-04	-1.313E-04	5.674E-05
9	10.50000	0.08932	42.743	187.897	-26.747	63.569
	(STRAIN)		-1.397E-05	1.167E-04	-7.651E-05	3.319E-06
9	18.00000	0.08922	40.414	110.562	-67.592	-36.287
	(STRAIN)		3.481E-05	9.795E-05	-6.239E-05	-3.451E-05
9	25.50000	0.08881	24.253	49.098	-112.198	-101.674
	(STRAIN)		7.233E-05	9.916E-05	-7.504E-05	-7.390E-05
9	33.00000	0.08811	15.166	15.271	-207.958	-169.339
	(STRAIN)		1.177E-04	1.179E-04	-1.232E-04	-1.332E-04
10	0.00000	0.08540	0.000	244.947	40.833	220.925
	(STRAIN)		-1.094E-04	8.652E-05	-1.094E-04	5.988E-05
10	3.00000	0.08170	0.030	136.737	-2.343	102.417
	(STRAIN)		-6.944E-05	6.180E-05	-7.171E-05	1.636E-05
10	10.50000	0.08197	2.072	76.404	-21.333	48.421
	(STRAIN)		-2.228E-05	4.462E-05	-4.335E-05	1.131E-05
10	18.00000	0.08203	6.048	55.032	-41.064	-16.014
	(STRAIN)		5.921E-06	5.001E-05	-3.648E-05	-1.473E-05

10	25.50000	0.08187	9.670	29.687	-68.465	-52.783
	(STRAIN)		3.608E-05	5.770E-05	-4.831E-05	-5.380E-05
10	33.00000	0.08150	11.280	11.516	-127.347	-66.659
	(STRAIN)		6.328E-05	6.353E-05	-8.644E-05	-9.799E-05
11	0.00000	0.07892	0.000	171.638	21.892	148.230
	(STRAIN)		-7.923E-05	6.452E-05	-7.923E-05	3.776E-05
11	3.00000	0.07477	-0.161	93.282	-2.193	49.007
	(STRAIN)		-4.125E-05	4.846E-05	-4.320E-05	-6.758E-06
11	10.50000	0.07492	1.964	43.972	-14.491	34.602
	(STRAIN)		-1.318E-05	2.462E-05	-2.799E-05	8.967E-07
11	18.00000	0.07496	4.756	35.337	-22.332	-7.026
	(STRAIN)		2.885E-06	3.041E-05	-2.149E-05	-9.195E-06
11	25.50000	0.07487	7.405	22.676	-43.317	-21.799
	(STRAIN)		1.988E-05	3.637E-05	-3.490E-05	-4.214E-05
11	33.00000	0.07467	8.554	9.118	-81.732	-16.826
	(STRAIN)		3.428E-05	3.489E-05	-6.323E-05	-7.658E-05
12	0.00000	0.07298	0.000	133.229	15.101	105.587
	(STRAIN)		-5.999E-05	5.342E-05	-5.999E-05	2.315E-05
12	3.00000	0.06806	-0.081	64.449	-2.502	16.722
	(STRAIN)		-2.315E-05	3.880E-05	-2.548E-05	-1.994E-05
12	10.50000	0.06815	1.627	29.845	-10.903	21.150
	(STRAIN)		-7.890E-06	1.751E-05	-1.917E-05	-5.415E-06
12	18.00000	0.06817	3.777	25.689	-11.871	-2.537
	(STRAIN)		7.669E-07	2.049E-05	-1.332E-05	-6.635E-06
12	25.50000	0.06813	5.680	21.064	-28.101	-6.678
	(STRAIN)		9.974E-06	2.659E-05	-2.651E-05	-3.407E-05
12	33.00000	0.06803	6.502	12.854	-54.334	4.786
	(STRAIN)		1.730E-05	2.416E-05	-4.841E-05	-6.213E-05

PERIOD NO. 1 LOAD GROUP NO. 8

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.07768	0.000	117.779	12.505	88.997
	(STRAIN)		-5.232E-05	4.875E-05	-5.232E-05	1.705E-05
1	3.00000	0.07124	-0.308	51.706	-8.895	2.281
	(STRAIN)		-1.352E-05	3.641E-05	-2.177E-05	-3.065E-05
1	10.50000	0.07129	1.406	25.419	-10.526	13.025
	(STRAIN)		-5.249E-06	1.636E-05	-1.599E-05	-1.015E-05
1	18.00000	0.07132	3.260	22.714	-6.815	-0.079
	(STRAIN)		-7.573E-07	1.675E-05	-9.825E-06	-5.675E-06
1	25.50000	0.07130	4.911	25.500	-21.039	-0.631
	(STRAIN)		4.231E-06	2.647E-05	-2.379E-05	-3.202E-05
1	33.00000	0.07126	5.653	31.306	-42.026	5.233
	(STRAIN)		7.642E-06	3.535E-05	-4.385E-05	-5.871E-05
2	0.00000	0.08421	0.000	153.725	17.424	121.831
	(STRAIN)		-6.921E-05	6.164E-05	-6.921E-05	2.671E-05
2	3.00000	0.07853	-0.093	74.365	-2.887	19.294
	(STRAIN)		-2.672E-05	4.476E-05	-2.940E-05	-2.301E-05
2	10.50000	0.07863	1.878	34.437	-12.581	24.404
	(STRAIN)		-9.104E-06	2.020E-05	-2.212E-05	-6.248E-06
2	18.00000	0.07866	4.358	29.641	-13.697	-2.928
	(STRAIN)		8.849E-07	2.364E-05	-1.536E-05	-7.656E-06
2	25.50000	0.07861	6.553	24.305	-32.425	-7.705
	(STRAIN)		1.151E-05	3.068E-05	-3.059E-05	-3.931E-05
2	33.00000	0.07850	7.502	14.831	-62.693	5.522
	(STRAIN)		1.996E-05	2.787E-05	-5.585E-05	-7.168E-05

3	0.00000	0.09106	0.000	198.043	25.260	171.035
	(STRAIN)		-9.142E-05	7.445E-05	-9.142E-05	4.357E-05
3	3.00000	0.08627	-0.185	107.633	-2.531	56.546
	(STRAIN)		-4.759E-05	5.591E-05	-4.985E-05	-7.798E-06
3	10.50000	0.08645	2.266	50.737	-16.721	39.925
	(STRAIN)		-1.521E-05	2.841E-05	-3.230E-05	1.035E-06
3	18.00000	0.08650	5.488	40.773	-25.767	-8.107
	(STRAIN)		3.329E-06	3.509E-05	-2.480E-05	-1.061E-05
3	25.50000	0.08639	8.545	26.165	-49.981	-25.153
	(STRAIN)		2.294E-05	4.197E-05	-4.027E-05	-4.862E-05
3	33.00000	0.08616	9.870	10.521	-94.306	-19.414
	(STRAIN)		3.955E-05	4.026E-05	-7.295E-05	-8.837E-05
4	0.00000	0.09854	0.000	282.631	47.115	254.913
	(STRAIN)		-1.263E-04	9.983E-05	-1.263E-04	6.909E-05
4	3.00000	0.09427	0.034	157.773	-2.704	118.174
	(STRAIN)		-8.012E-05	7.131E-05	-8.275E-05	1.887E-05
4	10.50000	0.09458	2.391	88.159	-24.615	55.871
	(STRAIN)		-2.571E-05	5.148E-05	-5.002E-05	1.305E-05
4	18.00000	0.09465	6.979	63.498	-47.382	-18.478
	(STRAIN)		6.832E-06	5.770E-05	-4.209E-05	-1.699E-05
4	25.50000	0.09447	11.157	34.255	-78.998	-60.904
	(STRAIN)		4.163E-05	6.658E-05	-5.574E-05	-6.207E-05
4	33.00000	0.09403	13.015	13.287	-146.938	-76.914
	(STRAIN)		7.301E-05	7.331E-05	-9.974E-05	-1.131E-04
5	0.00000	0.10596	0.000	422.359	112.186	408.652
	(STRAIN)		-1.690E-04	1.288E-04	-1.690E-04	1.113E-04
5	3.00000	0.10263	6.683	278.145	-2.221	233.201
	(STRAIN)		-1.429E-04	1.177E-04	-1.515E-04	6.547E-05
5	10.50000	0.10306	49.319	216.804	-30.862	73.349
	(STRAIN)		-1.611E-05	1.346E-04	-8.828E-05	3.830E-06
5	18.00000	0.10295	46.632	127.571	-77.991	-41.870
	(STRAIN)		4.017E-05	1.130E-04	-7.199E-05	-3.982E-05
5	25.50000	0.10247	27.985	56.651	-129.459	-117.316
	(STRAIN)		8.346E-05	1.144E-04	-8.658E-05	-8.527E-05
5	33.00000	0.10167	17.499	17.620	-239.951	-195.391
	(STRAIN)		1.359E-04	1.360E-04	-1.422E-04	-1.537E-04
6	0.00000	0.11440	600.000	880.484	482.351	874.141
	(STRAIN)		-1.931E-04	1.891E-04	-1.931E-04	1.804E-04
6	3.00000	0.11235	580.661	674.693	578.726	653.076
	(STRAIN)		-1.804E-06	8.847E-05	-3.661E-06	6.288E-05
6	10.50000	0.11091	362.499	367.740	113.131	131.867
	(STRAIN)		1.833E-04	1.880E-04	-4.115E-05	-4.147E-05
6	18.00000	0.10973	166.522	173.813	-71.540	-64.188
	(STRAIN)		1.410E-04	1.475E-04	-7.327E-05	-7.350E-05
6	25.50000	0.10866	62.995	67.102	-169.366	-160.744
	(STRAIN)		1.417E-04	1.461E-04	-1.093E-04	-1.116E-04
6	33.00000	0.10743	21.765	21.795	-338.035	-322.784
	(STRAIN)		2.024E-04	2.025E-04	-1.862E-04	-1.943E-04
7	0.00000	0.11374	0.000	592.944	189.753	591.855
	(STRAIN)		-2.210E-04	1.660E-04	-2.210E-04	1.650E-04
7	3.00000	0.11101	13.179	428.381	13.160	332.467
	(STRAIN)		-2.144E-04	1.842E-04	-2.144E-04	9.211E-05
7	10.50000	0.11159	95.931	224.791	87.482	100.498
	(STRAIN)		-9.975E-06	1.060E-04	-1.758E-05	-1.347E-05
7	18.00000	0.11132	86.503	86.835	-70.060	-0.709
	(STRAIN)		7.410E-05	7.440E-05	-6.680E-05	-6.650E-05
7	25.50000	0.11052	45.215	45.363	-173.975	-163.711
	(STRAIN)		1.307E-04	1.308E-04	-1.060E-04	-1.059E-04
7	33.00000	0.10928	22.517	22.527	-345.129	-338.411

	(STRAIN)		2.094E-04	2.094E-04	-1.877E-04	-1.876E-04
8	0.00000	0.11440	600.000	880.484	482.351	874.141
	(STRAIN)		-1.931E-04	1.891E-04	-1.931E-04	1.804E-04
8	3.00000	0.11235	580.661	674.693	578.726	653.076
	(STRAIN)		-1.804E-06	8.847E-05	-3.661E-06	6.288E-05
8	10.50000	0.11091	362.499	367.740	113.131	131.867
	(STRAIN)		1.833E-04	1.880E-04	-4.115E-05	-4.147E-05
8	18.00000	0.10973	166.522	173.813	-71.540	-64.188
	(STRAIN)		1.410E-04	1.475E-04	-7.327E-05	-7.350E-05
8	25.50000	0.10866	62.995	67.102	-169.366	-160.744
	(STRAIN)		1.417E-04	1.461E-04	-1.093E-04	-1.116E-04
8	33.00000	0.10743	21.765	21.795	-338.035	-322.784
	(STRAIN)		2.024E-04	2.025E-04	-1.862E-04	-1.943E-04
9	0.00000	0.10596	0.000	422.359	112.186	408.652
	(STRAIN)		-1.690E-04	1.288E-04	-1.690E-04	1.113E-04
9	3.00000	0.10263	6.683	278.145	-2.221	233.201
	(STRAIN)		-1.429E-04	1.177E-04	-1.515E-04	6.547E-05
9	10.50000	0.10306	49.319	216.804	-30.862	73.349
	(STRAIN)		-1.611E-05	1.346E-04	-8.828E-05	3.830E-06
9	18.00000	0.10295	46.632	127.571	-77.991	-41.870
	(STRAIN)		4.017E-05	1.130E-04	-7.199E-05	-3.982E-05
9	25.50000	0.10247	27.985	56.651	-129.459	-117.316
	(STRAIN)		8.346E-05	1.144E-04	-8.658E-05	-8.527E-05
9	33.00000	0.10167	17.499	17.620	-239.951	-195.391
	(STRAIN)		1.359E-04	1.360E-04	-1.422E-04	-1.537E-04
10	0.00000	0.09854	0.000	282.631	47.115	254.913
	(STRAIN)		-1.263E-04	9.983E-05	-1.263E-04	6.909E-05
10	3.00000	0.09427	0.034	157.773	-2.704	118.174
	(STRAIN)		-8.012E-05	7.131E-05	-8.275E-05	1.887E-05
10	10.50000	0.09458	2.391	88.159	-24.615	55.871
	(STRAIN)		-2.571E-05	5.148E-05	-5.002E-05	1.305E-05
10	18.00000	0.09465	6.979	63.498	-47.382	-18.478
	(STRAIN)		6.832E-06	5.770E-05	-4.209E-05	-1.699E-05
10	25.50000	0.09447	11.157	34.255	-78.998	-60.904
	(STRAIN)		4.163E-05	6.658E-05	-5.574E-05	-6.207E-05
10	33.00000	0.09403	13.015	13.287	-146.938	-76.914
	(STRAIN)		7.301E-05	7.331E-05	-9.974E-05	-1.131E-04
11	0.00000	0.09106	0.000	198.043	25.260	171.035
	(STRAIN)		-9.142E-05	7.445E-05	-9.142E-05	4.357E-05
11	3.00000	0.08627	-0.185	107.633	-2.531	56.546
	(STRAIN)		-4.759E-05	5.591E-05	-4.985E-05	-7.798E-06
11	10.50000	0.08645	2.266	50.737	-16.721	39.925
	(STRAIN)		-1.521E-05	2.841E-05	-3.230E-05	1.035E-06
11	18.00000	0.08650	5.488	40.773	-25.767	-8.107
	(STRAIN)		3.329E-06	3.509E-05	-2.480E-05	-1.061E-05
11	25.50000	0.08639	8.545	26.165	-49.981	-25.153
	(STRAIN)		2.294E-05	4.197E-05	-4.027E-05	-4.862E-05
11	33.00000	0.08616	9.870	10.521	-94.306	-19.414
	(STRAIN)		3.955E-05	4.026E-05	-7.295E-05	-8.837E-05
12	0.00000	0.08421	0.000	153.725	17.424	121.831
	(STRAIN)		-6.921E-05	6.164E-05	-6.921E-05	2.671E-05
12	3.00000	0.07853	-0.093	74.365	-2.887	19.294
	(STRAIN)		-2.672E-05	4.476E-05	-2.940E-05	-2.301E-05
12	10.50000	0.07863	1.878	34.437	-12.581	24.404
	(STRAIN)		-9.104E-06	2.020E-05	-2.212E-05	-6.248E-06
12	18.00000	0.07866	4.358	29.641	-13.697	-2.928
	(STRAIN)		8.849E-07	2.364E-05	-1.536E-05	-7.656E-06
12	25.50000	0.07861	6.553	24.305	-32.425	-7.705
	(STRAIN)		1.151E-05	3.068E-05	-3.059E-05	-3.931E-05

12	33.00000	0.07850	7.502	14.831	-62.693	5.522
	(STRAIN)		1.996E-05	2.787E-05	-5.585E-05	-7.168E-05

PERIOD NO. 1 LOAD GROUP NO. 9

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.09063	0.000	137.409	14.589	103.830
	(STRAIN)		-6.104E-05	5.687E-05	-6.104E-05	1.989E-05
1	3.00000	0.08311	-0.360	60.323	-10.378	2.661
	(STRAIN)		-1.578E-05	4.248E-05	-2.539E-05	-3.575E-05
1	10.50000	0.08318	1.640	29.656	-12.280	15.196
	(STRAIN)		-6.124E-06	1.909E-05	-1.865E-05	-1.185E-05
1	18.00000	0.08320	3.803	26.500	-7.951	-0.093
	(STRAIN)		-8.835E-07	1.954E-05	-1.146E-05	-6.621E-06
1	25.50000	0.08319	5.729	29.750	-24.546	-0.736
	(STRAIN)		4.936E-06	3.088E-05	-2.776E-05	-3.735E-05
1	33.00000	0.08313	6.595	36.523	-49.031	6.105
	(STRAIN)		8.916E-06	4.124E-05	-5.116E-05	-6.850E-05
2	0.00000	0.09824	0.000	179.346	20.328	142.137
	(STRAIN)		-8.075E-05	7.191E-05	-8.075E-05	3.117E-05
2	3.00000	0.09162	-0.109	86.759	-3.368	22.510
	(STRAIN)		-3.117E-05	5.222E-05	-3.430E-05	-2.685E-05
2	10.50000	0.09174	2.191	40.176	-14.678	28.471
	(STRAIN)		-1.062E-05	2.357E-05	-2.580E-05	-7.289E-06
2	18.00000	0.09177	5.084	34.581	-15.980	-3.416
	(STRAIN)		1.032E-06	2.758E-05	-1.793E-05	-8.932E-06
2	25.50000	0.09172	7.646	28.356	-37.829	-8.989
	(STRAIN)		1.343E-05	3.579E-05	-3.569E-05	-4.586E-05
2	33.00000	0.09158	8.753	17.303	-73.141	6.442
	(STRAIN)		2.328E-05	3.252E-05	-6.516E-05	-8.363E-05
3	0.00000	0.10624	0.000	231.051	29.470	199.541
	(STRAIN)		-1.067E-04	8.686E-05	-1.067E-04	5.083E-05
3	3.00000	0.10065	-0.216	125.572	-2.953	65.971
	(STRAIN)		-5.553E-05	6.523E-05	-5.815E-05	-9.098E-06
3	10.50000	0.10086	2.644	59.194	-19.508	46.579
	(STRAIN)		-1.775E-05	3.315E-05	-3.769E-05	1.207E-06
3	18.00000	0.10091	6.402	47.569	-30.062	-9.458
	(STRAIN)		3.884E-06	4.093E-05	-2.893E-05	-1.238E-05
3	25.50000	0.10079	9.969	30.525	-58.311	-29.345
	(STRAIN)		2.676E-05	4.896E-05	-4.698E-05	-5.672E-05
3	33.00000	0.10052	11.514	12.274	-110.023	-22.650
	(STRAIN)		4.615E-05	4.697E-05	-8.511E-05	-1.031E-04
4	0.00000	0.11497	0.000	329.736	54.967	297.399
	(STRAIN)		-1.473E-04	1.165E-04	-1.473E-04	8.060E-05
4	3.00000	0.10999	0.040	184.069	-3.154	137.869
	(STRAIN)		-9.347E-05	8.320E-05	-9.654E-05	2.202E-05
4	10.50000	0.11034	2.790	102.852	-28.718	65.182
	(STRAIN)		-3.000E-05	6.006E-05	-5.835E-05	1.522E-05
4	18.00000	0.11043	8.142	74.081	-55.279	-21.558
	(STRAIN)		7.970E-06	6.732E-05	-4.911E-05	-1.982E-05
4	25.50000	0.11021	13.017	39.964	-92.165	-71.055
	(STRAIN)		4.857E-05	7.767E-05	-6.503E-05	-7.242E-05
4	33.00000	0.10971	15.185	15.502	-171.428	-89.733
	(STRAIN)		8.518E-05	8.553E-05	-1.164E-04	-1.319E-04
5	0.00000	0.12362	0.000	492.752	130.884	476.761
	(STRAIN)		-1.971E-04	1.503E-04	-1.971E-04	1.299E-04

5	3.00000	0.11974	7.797	324.502	-2.591	272.067
	(STRAIN)		-1.667E-04	1.373E-04	-1.767E-04	7.638E-05
5	10.50000	0.12023	57.539	252.938	-36.006	85.574
	(STRAIN)		-1.880E-05	1.571E-04	-1.030E-04	4.468E-06
5	18.00000	0.12011	54.404	148.833	-90.990	-48.848
	(STRAIN)		4.686E-05	1.319E-04	-8.399E-05	-4.646E-05
5	25.50000	0.11955	32.649	66.093	-151.036	-136.869
	(STRAIN)		9.737E-05	1.335E-04	-1.010E-04	-9.948E-05
5	33.00000	0.11861	20.415	20.557	-279.943	-227.956
	(STRAIN)		1.585E-04	1.587E-04	-1.659E-04	-1.793E-04
6	0.00000	0.13347	700.000	1027.248	562.743	1019.814
	(STRAIN)		-2.253E-04	2.206E-04	-2.253E-04	2.104E-04
6	3.00000	0.13107	677.437	787.147	675.183	761.914
	(STRAIN)		-2.105E-06	1.032E-04	-4.269E-06	7.336E-05
6	10.50000	0.12940	422.916	429.030	131.986	153.844
	(STRAIN)		2.138E-04	2.193E-04	-4.801E-05	-4.839E-05
6	18.00000	0.12802	194.276	202.782	-83.463	-74.886
	(STRAIN)		1.645E-04	1.721E-04	-8.548E-05	-8.576E-05
6	25.50000	0.12677	73.494	78.285	-197.594	-187.534
	(STRAIN)		1.653E-04	1.705E-04	-1.275E-04	-1.302E-04
6	33.00000	0.12533	25.392	25.427	-394.374	-376.582
	(STRAIN)		2.362E-04	2.362E-04	-2.172E-04	-2.267E-04
7	0.00000	0.13270	0.000	691.702	221.379	690.564
	(STRAIN)		-2.579E-04	1.936E-04	-2.579E-04	1.925E-04
7	3.00000	0.12951	15.376	499.778	15.354	387.878
	(STRAIN)		-2.501E-04	2.149E-04	-2.501E-04	1.075E-04
7	10.50000	0.13019	111.920	262.256	102.062	117.248
	(STRAIN)		-1.164E-05	1.237E-04	-2.051E-05	-1.571E-05
7	18.00000	0.12987	100.920	101.308	-81.737	-0.828
	(STRAIN)		8.645E-05	8.680E-05	-7.794E-05	-7.759E-05
7	25.50000	0.12895	52.751	52.924	-202.971	-190.996
	(STRAIN)		1.525E-04	1.527E-04	-1.237E-04	-1.235E-04
7	33.00000	0.12750	26.270	26.281	-402.652	-394.813
	(STRAIN)		2.443E-04	2.443E-04	-2.189E-04	-2.189E-04
8	0.00000	0.13347	700.000	1027.248	562.743	1019.814
	(STRAIN)		-2.253E-04	2.206E-04	-2.253E-04	2.104E-04
8	3.00000	0.13107	677.437	787.147	675.183	761.914
	(STRAIN)		-2.105E-06	1.032E-04	-4.269E-06	7.336E-05
8	10.50000	0.12940	422.916	429.030	131.986	153.844
	(STRAIN)		2.138E-04	2.193E-04	-4.801E-05	-4.839E-05
8	18.00000	0.12802	194.276	202.782	-83.463	-74.886
	(STRAIN)		1.645E-04	1.721E-04	-8.548E-05	-8.576E-05
8	25.50000	0.12677	73.494	78.285	-197.594	-187.534
	(STRAIN)		1.653E-04	1.705E-04	-1.275E-04	-1.302E-04
8	33.00000	0.12533	25.392	25.427	-394.374	-376.582
	(STRAIN)		2.362E-04	2.362E-04	-2.172E-04	-2.267E-04
9	0.00000	0.12362	0.000	492.752	130.884	476.761
	(STRAIN)		-1.971E-04	1.503E-04	-1.971E-04	1.299E-04
9	3.00000	0.11974	7.797	324.502	-2.591	272.067
	(STRAIN)		-1.667E-04	1.373E-04	-1.767E-04	7.638E-05
9	10.50000	0.12023	57.539	252.938	-36.006	85.574
	(STRAIN)		-1.880E-05	1.571E-04	-1.030E-04	4.468E-06
9	18.00000	0.12011	54.404	148.833	-90.990	-48.848
	(STRAIN)		4.686E-05	1.319E-04	-8.399E-05	-4.646E-05
9	25.50000	0.11955	32.649	66.093	-151.036	-136.869
	(STRAIN)		9.737E-05	1.335E-04	-1.010E-04	-9.948E-05
9	33.00000	0.11861	20.415	20.557	-279.943	-227.956
	(STRAIN)		1.585E-04	1.587E-04	-1.659E-04	-1.793E-04
10	0.00000	0.11497	0.000	329.736	54.967	297.399

	(STRAIN)		-1.473E-04	1.165E-04	-1.473E-04	8.060E-05
10	3.00000	0.10999	0.040	184.069	-3.154	137.869
	(STRAIN)		-9.347E-05	8.320E-05	-9.654E-05	2.202E-05
10	10.50000	0.11034	2.790	102.852	-28.718	65.182
	(STRAIN)		-3.000E-05	6.006E-05	-5.835E-05	1.522E-05
10	18.00000	0.11043	8.142	74.081	-55.279	-21.558
	(STRAIN)		7.970E-06	6.732E-05	-4.911E-05	-1.982E-05
10	25.50000	0.11021	13.017	39.964	-92.165	-71.055
	(STRAIN)		4.857E-05	7.767E-05	-6.503E-05	-7.242E-05
10	33.00000	0.10971	15.185	15.502	-171.428	-89.733
	(STRAIN)		8.518E-05	8.553E-05	-1.164E-04	-1.319E-04
11	0.00000	0.10624	0.000	231.051	29.470	199.541
	(STRAIN)		-1.067E-04	8.686E-05	-1.067E-04	5.083E-05
11	3.00000	0.10065	-0.216	125.572	-2.953	65.971
	(STRAIN)		-5.553E-05	6.523E-05	-5.815E-05	-9.098E-06
11	10.50000	0.10086	2.644	59.194	-19.508	46.579
	(STRAIN)		-1.775E-05	3.315E-05	-3.769E-05	1.207E-06
11	18.00000	0.10091	6.402	47.569	-30.062	-9.458
	(STRAIN)		3.884E-06	4.093E-05	-2.893E-05	-1.238E-05
11	25.50000	0.10079	9.969	30.525	-58.311	-29.345
	(STRAIN)		2.676E-05	4.896E-05	-4.698E-05	-5.672E-05
11	33.00000	0.10052	11.514	12.274	-110.023	-22.650
	(STRAIN)		4.615E-05	4.697E-05	-8.511E-05	-1.031E-04
12	0.00000	0.09824	0.000	179.346	20.328	142.137
	(STRAIN)		-8.075E-05	7.191E-05	-8.075E-05	3.117E-05
12	3.00000	0.09162	-0.109	86.759	-3.368	22.510
	(STRAIN)		-3.117E-05	5.222E-05	-3.430E-05	-2.685E-05
12	10.50000	0.09174	2.191	40.176	-14.678	28.471
	(STRAIN)		-1.062E-05	2.357E-05	-2.580E-05	-7.289E-06
12	18.00000	0.09177	5.084	34.581	-15.980	-3.416
	(STRAIN)		1.032E-06	2.758E-05	-1.793E-05	-8.932E-06
12	25.50000	0.09172	7.646	28.356	-37.829	-8.989
	(STRAIN)		1.343E-05	3.579E-05	-3.569E-05	-4.586E-05
12	33.00000	0.09158	8.753	17.303	-73.141	6.442
	(STRAIN)		2.328E-05	3.252E-05	-6.516E-05	-8.363E-05

PERIOD NO. 1 LOAD GROUP NO. 10

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.08183	0.000	98.094	10.848	72.929
	(STRAIN)		-4.293E-05	4.082E-05	-4.293E-05	6.928E-06
1	3.00000	0.07617	0.353	40.904	-10.423	1.713
	(STRAIN)		-9.105E-06	2.982E-05	-1.945E-05	-3.327E-05
1	10.50000	0.07621	1.282	21.935	-9.045	9.947
	(STRAIN)		-4.175E-06	1.441E-05	-1.347E-05	-1.155E-05
1	18.00000	0.07624	2.868	20.709	-5.319	2.197
	(STRAIN)		-1.522E-06	1.453E-05	-8.891E-06	-4.488E-06
1	25.50000	0.07623	4.323	24.793	-14.378	0.515
	(STRAIN)		1.608E-06	2.372E-05	-1.859E-05	-2.886E-05
1	33.00000	0.07621	4.989	32.544	-29.971	4.649
	(STRAIN)		3.365E-06	3.313E-05	-3.439E-05	-5.344E-05
2	0.00000	0.08792	0.000	127.947	15.112	102.213
	(STRAIN)		-5.744E-05	5.088E-05	-5.744E-05	1.639E-05
2	3.00000	0.08292	0.568	59.850	-2.248	13.837
	(STRAIN)		-2.041E-05	3.650E-05	-2.311E-05	-2.613E-05
2	10.50000	0.08300	1.695	30.349	-10.620	18.938

	(STRAIN)		-7.497E-06	1.829E-05	-1.858E-05	-8.017E-06
2	18.00000	0.08303	3.831	26.573	-11.166	-0.062
	(STRAIN)		-1.327E-07	2.033E-05	-1.363E-05	-6.060E-06
2	25.50000	0.08300	5.766	22.769	-23.795	-4.709
	(STRAIN)		7.833E-06	2.620E-05	-2.409E-05	-3.463E-05
2	33.00000	0.08292	6.614	17.267	-46.852	5.451
	(STRAIN)		1.390E-05	2.541E-05	-4.384E-05	-6.366E-05
3	0.00000	0.09424	0.000	166.430	21.904	144.396
	(STRAIN)		-7.657E-05	6.217E-05	-7.657E-05	3.113E-05
3	3.00000	0.09001	0.505	88.122	-1.566	46.020
	(STRAIN)		-3.840E-05	4.571E-05	-4.039E-05	-1.224E-05
3	10.50000	0.09016	2.035	45.619	-14.081	31.072
	(STRAIN)		-1.278E-05	2.645E-05	-2.728E-05	-1.665E-06
3	18.00000	0.09020	4.823	36.117	-21.551	-4.358
	(STRAIN)		1.958E-06	3.012E-05	-2.178E-05	-8.369E-06
3	25.50000	0.09012	7.510	23.521	-38.641	-19.024
	(STRAIN)		1.767E-05	3.496E-05	-3.217E-05	-4.190E-05
3	33.00000	0.08994	8.687	9.433	-73.031	-12.788
	(STRAIN)		3.077E-05	3.158E-05	-5.749E-05	-7.659E-05
4	0.00000	0.10103	0.000	237.966	40.846	218.567
	(STRAIN)		-1.067E-04	8.255E-05	-1.067E-04	5.537E-05
4	3.00000	0.09726	0.704	131.739	-1.658	98.983
	(STRAIN)		-6.652E-05	5.928E-05	-6.878E-05	1.143E-05
4	10.50000	0.09752	2.145	78.168	-20.854	44.675
	(STRAIN)		-2.187E-05	4.655E-05	-4.257E-05	8.001E-06
4	18.00000	0.09758	6.125	55.759	-40.266	-13.176
	(STRAIN)		4.972E-06	4.964E-05	-3.678E-05	-1.348E-05
4	25.50000	0.09743	9.790	30.119	-64.201	-48.933
	(STRAIN)		3.382E-05	5.577E-05	-4.609E-05	-5.248E-05
4	33.00000	0.09708	11.433	11.703	-117.337	-63.413
	(STRAIN)		5.968E-05	5.997E-05	-7.939E-05	-9.605E-05
5	0.00000	0.10769	0.000	363.322	97.242	347.341
	(STRAIN)		-1.436E-04	1.118E-04	-1.436E-04	9.039E-05
5	3.00000	0.10474	6.469	243.511	-1.200	191.021
	(STRAIN)		-1.209E-04	1.067E-04	-1.283E-04	4.810E-05
5	10.50000	0.10510	42.818	189.436	-26.004	59.766
	(STRAIN)		-1.354E-05	1.184E-04	-7.548E-05	-1.471E-07
5	18.00000	0.10501	40.499	111.124	-66.675	-33.304
	(STRAIN)		3.385E-05	9.741E-05	-6.261E-05	-3.295E-05
5	25.50000	0.10461	24.386	49.333	-111.271	-94.107
	(STRAIN)		7.003E-05	9.697E-05	-7.648E-05	-7.196E-05
5	33.00000	0.10393	15.333	15.451	-198.118	-165.634
	(STRAIN)		1.141E-04	1.142E-04	-1.164E-04	-1.307E-04
6	0.00000	0.11516	520.000	765.728	418.052	745.277
	(STRAIN)		-1.645E-04	1.692E-04	-1.645E-04	1.479E-04
6	3.00000	0.11330	503.917	587.052	502.254	554.983
	(STRAIN)		1.435E-06	8.125E-05	-1.608E-07	4.678E-05
6	10.50000	0.11205	314.242	318.814	94.097	116.597
	(STRAIN)		1.593E-04	1.634E-04	-3.886E-05	-3.928E-05
6	18.00000	0.11103	144.409	150.755	-58.906	-54.316
	(STRAIN)		1.212E-04	1.269E-04	-6.177E-05	-6.212E-05
6	25.50000	0.11011	54.737	58.310	-145.948	-131.462
	(STRAIN)		1.205E-04	1.243E-04	-9.628E-05	-9.705E-05
6	33.00000	0.10907	19.040	19.072	-290.692	-268.308
	(STRAIN)		1.717E-04	1.718E-04	-1.628E-04	-1.694E-04
7	0.00000	0.11463	0.000	516.569	164.467	500.547
	(STRAIN)		-1.887E-04	1.493E-04	-1.887E-04	1.339E-04
7	3.00000	0.11219	12.100	373.992	12.084	276.691
	(STRAIN)		-1.828E-04	1.646E-04	-1.828E-04	7.120E-05

7	10.50000	0.11269	83.217	197.262	73.109	85.828
	(STRAIN)		-8.218E-06	9.442E-05	-1.731E-05	-1.496E-05
7	18.00000	0.11245	75.061	75.339	-57.583	0.712
	(STRAIN)		6.325E-05	6.350E-05	-5.613E-05	-5.588E-05
7	25.50000	0.11178	39.330	39.467	-142.240	-141.696
	(STRAIN)		1.109E-04	1.111E-04	-8.517E-05	-8.502E-05
7	33.00000	0.11072	19.695	19.709	-294.013	-284.626
	(STRAIN)		1.778E-04	1.778E-04	-1.610E-04	-1.610E-04
8	0.00000	0.11516	520.000	765.728	418.052	745.277
	(STRAIN)		-1.645E-04	1.692E-04	-1.645E-04	1.479E-04
8	3.00000	0.11330	503.917	587.052	502.254	554.983
	(STRAIN)		1.435E-06	8.125E-05	-1.608E-07	4.678E-05
8	10.50000	0.11205	314.242	318.814	94.097	116.597
	(STRAIN)		1.593E-04	1.634E-04	-3.886E-05	-3.928E-05
8	18.00000	0.11103	144.409	150.755	-58.906	-54.316
	(STRAIN)		1.212E-04	1.269E-04	-6.177E-05	-6.212E-05
8	25.50000	0.11011	54.737	58.310	-145.948	-131.462
	(STRAIN)		1.205E-04	1.243E-04	-9.628E-05	-9.705E-05
8	33.00000	0.10907	19.040	19.072	-290.692	-268.308
	(STRAIN)		1.717E-04	1.718E-04	-1.628E-04	-1.694E-04
9	0.00000	0.10769	0.000	363.322	97.242	347.341
	(STRAIN)		-1.436E-04	1.118E-04	-1.436E-04	9.039E-05
9	3.00000	0.10474	6.469	243.511	-1.200	191.021
	(STRAIN)		-1.209E-04	1.067E-04	-1.283E-04	4.810E-05
9	10.50000	0.10510	42.818	189.436	-26.004	59.766
	(STRAIN)		-1.354E-05	1.184E-04	-7.548E-05	-1.471E-07
9	18.00000	0.10501	40.499	111.124	-66.675	-33.304
	(STRAIN)		3.385E-05	9.741E-05	-6.261E-05	-3.295E-05
9	25.50000	0.10461	24.386	49.333	-111.271	-94.107
	(STRAIN)		7.003E-05	9.697E-05	-7.648E-05	-7.196E-05
9	33.00000	0.10393	15.333	15.451	-198.118	-165.634
	(STRAIN)		1.141E-04	1.142E-04	-1.164E-04	-1.307E-04
10	0.00000	0.10103	0.000	237.966	40.846	218.567
	(STRAIN)		-1.067E-04	8.255E-05	-1.067E-04	5.537E-05
10	3.00000	0.09726	0.704	131.739	-1.658	98.983
	(STRAIN)		-6.652E-05	5.928E-05	-6.878E-05	1.143E-05
10	10.50000	0.09752	2.145	78.168	-20.854	44.675
	(STRAIN)		-2.187E-05	4.655E-05	-4.257E-05	8.001E-06
10	18.00000	0.09758	6.125	55.759	-40.266	-13.176
	(STRAIN)		4.972E-06	4.964E-05	-3.678E-05	-1.348E-05
10	25.50000	0.09743	9.790	30.119	-64.201	-48.933
	(STRAIN)		3.382E-05	5.577E-05	-4.609E-05	-5.248E-05
10	33.00000	0.09708	11.433	11.703	-117.337	-63.413
	(STRAIN)		5.968E-05	5.997E-05	-7.939E-05	-9.605E-05
11	0.00000	0.09424	0.000	166.430	21.904	144.396
	(STRAIN)		-7.657E-05	6.217E-05	-7.657E-05	3.113E-05
11	3.00000	0.09001	0.505	88.122	-1.566	46.020
	(STRAIN)		-3.840E-05	4.571E-05	-4.039E-05	-1.224E-05
11	10.50000	0.09016	2.035	45.619	-14.081	31.072
	(STRAIN)		-1.278E-05	2.645E-05	-2.728E-05	-1.665E-06
11	18.00000	0.09020	4.823	36.117	-21.551	-4.358
	(STRAIN)		1.958E-06	3.012E-05	-2.178E-05	-8.369E-06
11	25.50000	0.09012	7.510	23.521	-38.641	-19.024
	(STRAIN)		1.767E-05	3.496E-05	-3.217E-05	-4.190E-05
11	33.00000	0.08994	8.687	9.433	-73.031	-12.788
	(STRAIN)		3.077E-05	3.158E-05	-5.749E-05	-7.659E-05
12	0.00000	0.08792	0.000	127.947	15.112	102.213
	(STRAIN)		-5.744E-05	5.088E-05	-5.744E-05	1.639E-05
12	3.00000	0.08292	0.568	59.850	-2.248	13.837

	(STRAIN)		-2.041E-05	3.650E-05	-2.311E-05	-2.613E-05
12	10.50000	0.08300	1.695	30.349	-10.620	18.938
	(STRAIN)		-7.497E-06	1.829E-05	-1.858E-05	-8.017E-06
12	18.00000	0.08303	3.831	26.573	-11.166	-0.062
	(STRAIN)		-1.327E-07	2.033E-05	-1.363E-05	-6.060E-06
12	25.50000	0.08300	5.766	22.769	-23.795	-4.709
	(STRAIN)		7.833E-06	2.620E-05	-2.409E-05	-3.463E-05
12	33.00000	0.08292	6.614	17.267	-46.852	5.451
	(STRAIN)		1.390E-05	2.541E-05	-4.384E-05	-6.366E-05

PERIOD NO. 1 LOAD GROUP NO. 11

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.09442	0.000	113.185	12.517	84.149
	(STRAIN)		-4.954E-05	4.710E-05	-4.954E-05	7.994E-06
1	3.00000	0.08789	0.407	47.197	-12.027	1.977
	(STRAIN)		-1.051E-05	3.441E-05	-2.244E-05	-3.839E-05
1	10.50000	0.08794	1.479	25.309	-10.436	11.477
	(STRAIN)		-4.817E-06	1.663E-05	-1.554E-05	-1.332E-05
1	18.00000	0.08796	3.309	23.895	-6.138	2.535
	(STRAIN)		-1.756E-06	1.677E-05	-1.026E-05	-5.178E-06
1	25.50000	0.08796	4.988	28.607	-16.591	0.595
	(STRAIN)		1.856E-06	2.736E-05	-2.145E-05	-3.330E-05
1	33.00000	0.08794	5.756	37.551	-34.581	5.364
	(STRAIN)		3.883E-06	3.822E-05	-3.968E-05	-6.166E-05
2	0.00000	0.10144	0.000	147.631	17.437	117.938
	(STRAIN)		-6.628E-05	5.871E-05	-6.628E-05	1.892E-05
2	3.00000	0.09568	0.655	69.058	-2.594	15.965
	(STRAIN)		-2.355E-05	4.212E-05	-2.667E-05	-3.015E-05
2	10.50000	0.09577	1.956	35.018	-12.254	21.851
	(STRAIN)		-8.650E-06	2.111E-05	-2.144E-05	-9.251E-06
2	18.00000	0.09581	4.420	30.661	-12.883	-0.071
	(STRAIN)		-1.531E-07	2.346E-05	-1.573E-05	-6.993E-06
2	25.50000	0.09577	6.653	26.272	-27.455	-5.433
	(STRAIN)		9.038E-06	3.023E-05	-2.780E-05	-3.996E-05
2	33.00000	0.09568	7.631	19.923	-54.060	6.289
	(STRAIN)		1.604E-05	2.931E-05	-5.059E-05	-7.346E-05
3	0.00000	0.10873	0.000	192.035	25.274	166.610
	(STRAIN)		-8.835E-05	7.174E-05	-8.835E-05	3.592E-05
3	3.00000	0.10386	0.583	101.679	-1.807	53.100
	(STRAIN)		-4.431E-05	5.274E-05	-4.661E-05	-1.412E-05
3	10.50000	0.10403	2.348	52.638	-16.247	35.852
	(STRAIN)		-1.474E-05	3.052E-05	-3.148E-05	-1.921E-06
3	18.00000	0.10408	5.564	41.673	-24.866	-5.028
	(STRAIN)		2.260E-06	3.476E-05	-2.513E-05	-9.656E-06
3	25.50000	0.10399	8.665	27.139	-44.586	-21.951
	(STRAIN)		2.039E-05	4.034E-05	-3.712E-05	-4.835E-05
3	33.00000	0.10378	10.024	10.884	-84.267	-14.756
	(STRAIN)		3.550E-05	3.643E-05	-6.633E-05	-8.838E-05
4	0.00000	0.11658	0.000	274.577	47.130	252.192
	(STRAIN)		-1.231E-04	9.525E-05	-1.231E-04	6.389E-05
4	3.00000	0.11222	0.813	152.006	-1.913	114.211
	(STRAIN)		-7.675E-05	6.840E-05	-7.937E-05	1.319E-05
4	10.50000	0.11252	2.476	90.194	-24.062	51.548
	(STRAIN)		-2.523E-05	5.372E-05	-4.911E-05	9.232E-06
4	18.00000	0.11259	7.067	64.337	-46.461	-15.203

	(STRAIN)		5.737E-06	5.728E-05	-4.244E-05	-1.556E-05
4	25.50000	0.11242	11.296	34.752	-74.078	-56.461
	(STRAIN)		3.902E-05	6.435E-05	-5.318E-05	-6.056E-05
4	33.00000	0.11202	13.192	13.503	-135.389	-73.169
	(STRAIN)		6.886E-05	6.920E-05	-9.160E-05	-1.108E-04
5	0.00000	0.12426	0.000	419.219	112.202	400.777
	(STRAIN)		-1.657E-04	1.290E-04	-1.657E-04	1.043E-04
5	3.00000	0.12085	7.464	280.974	-1.384	220.409
	(STRAIN)		-1.395E-04	1.231E-04	-1.480E-04	5.551E-05
5	10.50000	0.12127	49.405	218.580	-30.005	68.960
	(STRAIN)		-1.563E-05	1.366E-04	-8.710E-05	-1.697E-07
5	18.00000	0.12116	46.730	128.220	-76.933	-38.427
	(STRAIN)		3.906E-05	1.124E-04	-7.224E-05	-3.802E-05
5	25.50000	0.12070	28.138	56.923	-128.389	-108.585
	(STRAIN)		8.080E-05	1.119E-04	-8.825E-05	-8.303E-05
5	33.00000	0.11992	17.692	17.828	-228.598	-191.116
	(STRAIN)		1.316E-04	1.318E-04	-1.344E-04	-1.508E-04
6	0.00000	0.13287	600.000	883.534	482.368	859.934
	(STRAIN)		-1.898E-04	1.953E-04	-1.898E-04	1.706E-04
6	3.00000	0.13074	581.442	677.366	579.523	640.367
	(STRAIN)		1.656E-06	9.374E-05	-1.866E-07	5.398E-05
6	10.50000	0.12929	362.587	367.863	108.573	134.534
	(STRAIN)		1.838E-04	1.885E-04	-4.484E-05	-4.532E-05
6	18.00000	0.12811	166.626	173.948	-67.968	-62.673
	(STRAIN)		1.399E-04	1.464E-04	-7.128E-05	-7.168E-05
6	25.50000	0.12705	63.158	67.281	-168.402	-151.687
	(STRAIN)		1.390E-04	1.434E-04	-1.111E-04	-1.120E-04
6	33.00000	0.12585	21.969	22.006	-335.413	-309.586
	(STRAIN)		1.982E-04	1.982E-04	-1.878E-04	-1.955E-04
7	0.00000	0.13226	0.000	596.042	189.770	577.554
	(STRAIN)		-2.177E-04	1.723E-04	-2.177E-04	1.545E-04
7	3.00000	0.12945	13.961	431.530	13.943	319.259
	(STRAIN)		-2.109E-04	1.899E-04	-2.109E-04	8.215E-05
7	10.50000	0.13002	96.020	227.611	84.357	99.033
	(STRAIN)		-9.482E-06	1.089E-04	-1.998E-05	-1.727E-05
7	18.00000	0.12975	86.609	86.930	-66.442	0.822
	(STRAIN)		7.298E-05	7.326E-05	-6.477E-05	-6.448E-05
7	25.50000	0.12897	45.381	45.538	-164.121	-163.497
	(STRAIN)		1.280E-04	1.282E-04	-9.827E-05	-9.810E-05
7	33.00000	0.12776	22.725	22.741	-339.245	-328.415
	(STRAIN)		2.051E-04	2.051E-04	-1.858E-04	-1.858E-04
8	0.00000	0.13287	600.000	883.534	482.368	859.934
	(STRAIN)		-1.898E-04	1.953E-04	-1.898E-04	1.706E-04
8	3.00000	0.13074	581.442	677.366	579.523	640.367
	(STRAIN)		1.656E-06	9.374E-05	-1.866E-07	5.398E-05
8	10.50000	0.12929	362.587	367.863	108.573	134.534
	(STRAIN)		1.838E-04	1.885E-04	-4.484E-05	-4.532E-05
8	18.00000	0.12811	166.626	173.948	-67.968	-62.673
	(STRAIN)		1.399E-04	1.464E-04	-7.128E-05	-7.168E-05
8	25.50000	0.12705	63.158	67.281	-168.402	-151.687
	(STRAIN)		1.390E-04	1.434E-04	-1.111E-04	-1.120E-04
8	33.00000	0.12585	21.969	22.006	-335.413	-309.586
	(STRAIN)		1.982E-04	1.982E-04	-1.878E-04	-1.955E-04
9	0.00000	0.12426	0.000	419.219	112.202	400.777
	(STRAIN)		-1.657E-04	1.290E-04	-1.657E-04	1.043E-04
9	3.00000	0.12085	7.464	280.974	-1.384	220.409
	(STRAIN)		-1.395E-04	1.231E-04	-1.480E-04	5.551E-05
9	10.50000	0.12127	49.405	218.580	-30.005	68.960
	(STRAIN)		-1.563E-05	1.366E-04	-8.710E-05	-1.697E-07

9	18.00000	0.12116	46.730	128.220	-76.933	-38.427
	(STRAIN)		3.906E-05	1.124E-04	-7.224E-05	-3.802E-05
9	25.50000	0.12070	28.138	56.923	-128.389	-108.585
	(STRAIN)		8.080E-05	1.119E-04	-8.825E-05	-8.303E-05
9	33.00000	0.11992	17.692	17.828	-228.598	-191.116
	(STRAIN)		1.316E-04	1.318E-04	-1.344E-04	-1.508E-04
10	0.00000	0.11658	0.000	274.576	47.130	252.192
	(STRAIN)		-1.231E-04	9.525E-05	-1.231E-04	6.389E-05
10	3.00000	0.11222	0.813	152.006	-1.913	114.211
	(STRAIN)		-7.675E-05	6.840E-05	-7.937E-05	1.319E-05
10	10.50000	0.11252	2.476	90.194	-24.062	51.548
	(STRAIN)		-2.523E-05	5.372E-05	-4.911E-05	9.232E-06
10	18.00000	0.11259	7.067	64.337	-46.461	-15.203
	(STRAIN)		5.737E-06	5.728E-05	-4.244E-05	-1.556E-05
10	25.50000	0.11242	11.296	34.752	-74.078	-56.461
	(STRAIN)		3.902E-05	6.435E-05	-5.318E-05	-6.056E-05
10	33.00000	0.11202	13.192	13.503	-135.389	-73.169
	(STRAIN)		6.886E-05	6.920E-05	-9.160E-05	-1.108E-04
11	0.00000	0.10873	0.000	192.035	25.274	166.610
	(STRAIN)		-8.835E-05	7.174E-05	-8.835E-05	3.592E-05
11	3.00000	0.10386	0.583	101.679	-1.807	53.100
	(STRAIN)		-4.431E-05	5.274E-05	-4.661E-05	-1.412E-05
11	10.50000	0.10403	2.348	52.638	-16.247	35.852
	(STRAIN)		-1.474E-05	3.052E-05	-3.148E-05	-1.921E-06
11	18.00000	0.10408	5.564	41.673	-24.866	-5.028
	(STRAIN)		2.260E-06	3.476E-05	-2.513E-05	-9.656E-06
11	25.50000	0.10399	8.665	27.139	-44.586	-21.951
	(STRAIN)		2.039E-05	4.034E-05	-3.712E-05	-4.835E-05
11	33.00000	0.10378	10.024	10.884	-84.267	-14.756
	(STRAIN)		3.550E-05	3.643E-05	-6.633E-05	-8.838E-05
12	0.00000	0.10144	0.000	147.631	17.437	117.938
	(STRAIN)		-6.628E-05	5.871E-05	-6.628E-05	1.892E-05
12	3.00000	0.09568	0.655	69.058	-2.594	15.965
	(STRAIN)		-2.355E-05	4.212E-05	-2.667E-05	-3.015E-05
12	10.50000	0.09577	1.956	35.018	-12.254	21.851
	(STRAIN)		-8.650E-06	2.111E-05	-2.144E-05	-9.251E-06
12	18.00000	0.09581	4.420	30.661	-12.883	-0.071
	(STRAIN)		-1.531E-07	2.346E-05	-1.573E-05	-6.993E-06
12	25.50000	0.09577	6.653	26.272	-27.455	-5.433
	(STRAIN)		9.038E-06	3.023E-05	-2.780E-05	-3.996E-05
12	33.00000	0.09568	7.631	19.923	-54.060	6.289
	(STRAIN)		1.604E-05	2.931E-05	-5.059E-05	-7.346E-05

PERIOD NO. 1 LOAD GROUP NO. 12

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.11016	0.000	132.050	14.603	98.174
	(STRAIN)		-5.780E-05	5.495E-05	-5.780E-05	9.327E-06
1	3.00000	0.10254	0.475	55.064	-14.031	2.306
	(STRAIN)		-1.226E-05	4.015E-05	-2.618E-05	-4.479E-05
1	10.50000	0.10260	1.726	29.527	-12.175	13.390
	(STRAIN)		-5.620E-06	1.940E-05	-1.813E-05	-1.554E-05
1	18.00000	0.10262	3.861	27.877	-7.161	2.957
	(STRAIN)		-2.049E-06	1.957E-05	-1.197E-05	-6.041E-06
1	25.50000	0.10262	5.819	33.375	-19.356	0.694
	(STRAIN)		2.165E-06	3.193E-05	-2.502E-05	-3.885E-05

1	33.00000	0.10260	6.715	43.809	-40.345	6.258
	(STRAIN)		4.530E-06	4.459E-05	-4.629E-05	-7.194E-05
2	0.00000	0.11835	0.000	172.236	20.343	137.594
	(STRAIN)		-7.732E-05	6.850E-05	-7.732E-05	2.207E-05
2	3.00000	0.11163	0.765	80.568	-3.026	18.626
	(STRAIN)		-2.748E-05	4.914E-05	-3.111E-05	-3.517E-05
2	10.50000	0.11174	2.281	40.855	-14.297	25.493
	(STRAIN)		-1.009E-05	2.462E-05	-2.501E-05	-1.079E-05
2	18.00000	0.11178	5.157	35.771	-15.031	-0.083
	(STRAIN)		-1.787E-07	2.737E-05	-1.835E-05	-8.158E-06
2	25.50000	0.11173	7.762	30.651	-32.031	-6.339
	(STRAIN)		1.054E-05	3.526E-05	-3.243E-05	-4.662E-05
2	33.00000	0.11162	8.903	23.244	-63.070	7.338
	(STRAIN)		1.871E-05	3.420E-05	-5.902E-05	-8.570E-05
3	0.00000	0.12686	0.000	224.040	29.487	194.379
	(STRAIN)		-1.031E-04	8.369E-05	-1.031E-04	4.191E-05
3	3.00000	0.12117	0.680	118.625	-2.108	61.950
	(STRAIN)		-5.170E-05	6.153E-05	-5.437E-05	-1.648E-05
3	10.50000	0.12137	2.739	61.411	-18.955	41.828
	(STRAIN)		-1.720E-05	3.560E-05	-3.673E-05	-2.242E-06
3	18.00000	0.12142	6.492	48.619	-29.011	-5.867
	(STRAIN)		2.636E-06	4.055E-05	-2.932E-05	-1.127E-05
3	25.50000	0.12132	10.109	31.662	-52.017	-25.610
	(STRAIN)		2.379E-05	4.707E-05	-4.331E-05	-5.641E-05
3	33.00000	0.12107	11.694	12.698	-98.311	-17.215
	(STRAIN)		4.142E-05	4.251E-05	-7.738E-05	-1.031E-04
4	0.00000	0.13601	0.000	320.339	54.985	294.224
	(STRAIN)		-1.436E-04	1.111E-04	-1.436E-04	7.453E-05
4	3.00000	0.13093	0.948	177.341	-2.232	133.247
	(STRAIN)		-8.954E-05	7.980E-05	-9.259E-05	1.539E-05
4	10.50000	0.13127	2.888	105.226	-28.072	60.139
	(STRAIN)		-2.944E-05	6.267E-05	-5.730E-05	1.077E-05
4	18.00000	0.13136	8.245	75.060	-54.205	-17.736
	(STRAIN)		6.693E-06	6.683E-05	-4.951E-05	-1.815E-05
4	25.50000	0.13116	13.179	40.545	-86.424	-65.871
	(STRAIN)		4.552E-05	7.508E-05	-6.205E-05	-7.065E-05
4	33.00000	0.13068	15.390	15.753	-157.953	-85.364
	(STRAIN)		8.034E-05	8.073E-05	-1.069E-04	-1.293E-04
5	0.00000	0.14497	0.000	489.088	130.903	467.574
	(STRAIN)		-1.934E-04	1.505E-04	-1.934E-04	1.217E-04
5	3.00000	0.14100	8.709	327.803	-1.615	257.143
	(STRAIN)		-1.628E-04	1.436E-04	-1.727E-04	6.476E-05
5	10.50000	0.14148	57.640	255.010	-35.006	80.454
	(STRAIN)		-1.823E-05	1.594E-04	-1.016E-04	-1.980E-07
5	18.00000	0.14136	54.518	149.590	-89.755	-44.832
	(STRAIN)		4.557E-05	1.311E-04	-8.428E-05	-4.436E-05
5	25.50000	0.14082	32.828	66.410	-149.787	-126.683
	(STRAIN)		9.427E-05	1.305E-04	-1.030E-04	-9.687E-05
5	33.00000	0.13990	20.641	20.799	-266.698	-222.969
	(STRAIN)		1.536E-04	1.537E-04	-1.568E-04	-1.760E-04
6	0.00000	0.15502	700.000	1030.784	562.763	1003.261
	(STRAIN)		-2.215E-04	2.278E-04	-2.215E-04	1.990E-04
6	3.00000	0.15252	678.349	790.255	676.107	747.103
	(STRAIN)		1.932E-06	1.094E-04	-2.206E-07	6.297E-05
6	10.50000	0.15084	423.018	429.173	126.669	156.957
	(STRAIN)		2.144E-04	2.199E-04	-5.232E-05	-5.288E-05
6	18.00000	0.14946	194.397	202.939	-79.296	-73.118
	(STRAIN)		1.632E-04	1.709E-04	-8.316E-05	-8.362E-05
6	25.50000	0.14823	73.684	78.494	-196.468	-176.968

	(STRAIN)		1.622E-04	1.674E-04	-1.296E-04	-1.306E-04
6	33.00000	0.14682	25.631	25.674	-391.315	-361.184
	(STRAIN)		2.312E-04	2.312E-04	-2.191E-04	-2.281E-04
7	0.00000	0.15431	0.000	695.379	221.398	673.816
	(STRAIN)		-2.540E-04	2.010E-04	-2.540E-04	1.803E-04
7	3.00000	0.15103	16.288	503.451	16.267	372.469
	(STRAIN)		-2.461E-04	2.216E-04	-2.461E-04	9.584E-05
7	10.50000	0.15169	112.023	265.546	98.416	115.538
	(STRAIN)		-1.106E-05	1.271E-04	-2.331E-05	-2.014E-05
7	18.00000	0.15138	101.044	101.418	-77.515	0.959
	(STRAIN)		8.514E-05	8.548E-05	-7.556E-05	-7.523E-05
7	25.50000	0.15047	52.944	53.128	-191.476	-190.745
	(STRAIN)		1.493E-04	1.495E-04	-1.146E-04	-1.145E-04
7	33.00000	0.14905	26.513	26.532	-395.786	-383.151
	(STRAIN)		2.393E-04	2.393E-04	-2.168E-04	-2.168E-04
8	0.00000	0.15502	700.000	1030.784	562.763	1003.261
	(STRAIN)		-2.215E-04	2.278E-04	-2.215E-04	1.990E-04
8	3.00000	0.15252	678.349	790.255	676.107	747.103
	(STRAIN)		1.932E-06	1.094E-04	-2.206E-07	6.297E-05
8	10.50000	0.15084	423.018	429.173	126.669	156.957
	(STRAIN)		2.144E-04	2.199E-04	-5.232E-05	-5.288E-05
8	18.00000	0.14946	194.397	202.939	-79.296	-73.118
	(STRAIN)		1.632E-04	1.709E-04	-8.316E-05	-8.362E-05
8	25.50000	0.14823	73.684	78.494	-196.468	-176.968
	(STRAIN)		1.622E-04	1.674E-04	-1.296E-04	-1.306E-04
8	33.00000	0.14682	25.631	25.674	-391.315	-361.184
	(STRAIN)		2.312E-04	2.312E-04	-2.191E-04	-2.281E-04
9	0.00000	0.14497	0.000	489.088	130.903	467.574
	(STRAIN)		-1.934E-04	1.505E-04	-1.934E-04	1.217E-04
9	3.00000	0.14100	8.709	327.803	-1.615	257.143
	(STRAIN)		-1.628E-04	1.436E-04	-1.727E-04	6.476E-05
9	10.50000	0.14148	57.640	255.010	-35.006	80.454
	(STRAIN)		-1.823E-05	1.594E-04	-1.016E-04	-1.980E-07
9	18.00000	0.14136	54.518	149.590	-89.755	-44.832
	(STRAIN)		4.557E-05	1.311E-04	-8.428E-05	-4.436E-05
9	25.50000	0.14082	32.828	66.410	-149.787	-126.683
	(STRAIN)		9.427E-05	1.305E-04	-1.030E-04	-9.687E-05
9	33.00000	0.13990	20.641	20.799	-266.698	-222.969
	(STRAIN)		1.536E-04	1.537E-04	-1.568E-04	-1.760E-04
10	0.00000	0.13601	0.000	320.340	54.985	294.223
	(STRAIN)		-1.436E-04	1.111E-04	-1.436E-04	7.453E-05
10	3.00000	0.13093	0.948	177.341	-2.232	133.247
	(STRAIN)		-8.954E-05	7.980E-05	-9.259E-05	1.539E-05
10	10.50000	0.13127	2.888	105.226	-28.072	60.139
	(STRAIN)		-2.944E-05	6.267E-05	-5.730E-05	1.077E-05
10	18.00000	0.13136	8.245	75.060	-54.205	-17.736
	(STRAIN)		6.693E-06	6.683E-05	-4.951E-05	-1.815E-05
10	25.50000	0.13116	13.179	40.545	-86.424	-65.871
	(STRAIN)		4.552E-05	7.508E-05	-6.205E-05	-7.065E-05
10	33.00000	0.13068	15.390	15.753	-157.953	-85.364
	(STRAIN)		8.034E-05	8.073E-05	-1.069E-04	-1.293E-04
11	0.00000	0.12686	0.000	224.040	29.487	194.379
	(STRAIN)		-1.031E-04	8.369E-05	-1.031E-04	4.191E-05
11	3.00000	0.12117	0.680	118.625	-2.108	61.950
	(STRAIN)		-5.170E-05	6.153E-05	-5.437E-05	-1.648E-05
11	10.50000	0.12137	2.739	61.411	-18.955	41.828
	(STRAIN)		-1.720E-05	3.560E-05	-3.673E-05	-2.242E-06
11	18.00000	0.12142	6.492	48.619	-29.011	-5.867
	(STRAIN)		2.636E-06	4.055E-05	-2.932E-05	-1.127E-05

11	25.50000	0.12132	10.109	31.662	-52.017	-25.610
	(STRAIN)		2.379E-05	4.707E-05	-4.331E-05	-5.641E-05
11	33.00000	0.12107	11.694	12.698	-98.311	-17.215
	(STRAIN)		4.142E-05	4.251E-05	-7.738E-05	-1.031E-04
12	0.00000	0.11835	0.000	172.236	20.343	137.594
	(STRAIN)		-7.732E-05	6.850E-05	-7.732E-05	2.207E-05
12	3.00000	0.11163	0.765	80.568	-3.026	18.626
	(STRAIN)		-2.748E-05	4.914E-05	-3.111E-05	-3.517E-05
12	10.50000	0.11174	2.281	40.855	-14.297	25.493
	(STRAIN)		-1.009E-05	2.462E-05	-2.501E-05	-1.079E-05
12	18.00000	0.11178	5.157	35.771	-15.031	-0.083
	(STRAIN)		-1.787E-07	2.737E-05	-1.835E-05	-8.158E-06
12	25.50000	0.11173	7.762	30.651	-32.031	-6.339
	(STRAIN)		1.054E-05	3.526E-05	-3.243E-05	-4.662E-05
12	33.00000	0.11162	8.903	23.244	-63.070	7.338
	(STRAIN)		1.871E-05	3.420E-05	-5.902E-05	-8.570E-05

Anexo B2
SC – 15cm Solo-Cimento/ 15cm Solo-Cimento

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INPUT FILE NAME  -C:\KENPAVE\para tcc\solo cimento\longitudinal\solo cimento
longitudinal.DAT

NUMBER OF PROBLEMS TO BE SOLVED =  1

TITLE -MOno G/SC

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
NUMBER OF PERIODS PER YEAR (NPY) =  2
NUMBER OF LOAD GROUPS (NLG) =  9
TOLERANCE FOR INTEGRATION (DEL) -- =  0.001
NUMBER OF LAYERS (NL)------------- =  4
NUMBER OF Z COORDINATES (NZ)------ =  6
LIMIT OF INTEGRATION CYCLES (ICL)- =  80
COMPUTING CODE (NSTD)------------- =  9
SYSTEM OF UNITS (NUNIT)------------=  1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m^3, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 3  15  15
POISSON'S RATIOS OF LAYERS (PR) ARE : 0.44  0.35  0.35  0.35
VERTICAL COORDINATES OF POINTS (ZC) ARE:  0  3  10.5  18  25.5  33
ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  1.500E+06
   3  1.250E+06   4  3.000E+04

FOR PERIOD NO. 2 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  3.000E+05
   3  2.500E+05   4  3.000E+04

LOAD GROUP NO. 1  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -87.500   0.000  2 -70.000   0.000
  3 -52.500   0.000  4 -35.000   0.000  5 -17.500   0.000  6   0.000   0.000
  7  17.500   0.000  8  35.000   0.000  9  52.500   0.000 10  70.000   0.000
 11  87.500   0.000 12 105.000   0.000

LOAD GROUP NO. 2  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -87.500   0.000  2 -70.000   0.000
  3 -52.500   0.000  4 -35.000   0.000  5 -17.500   0.000  6   0.000   0.000
  7  17.500   0.000  8  35.000   0.000  9  52.500   0.000 10  70.000   0.000
 11  87.500   0.000 12 105.000   0.000
```

```
LOAD GROUP NO. 3  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -87.500   0.000  2 -70.000   0.000
  3 -52.500   0.000  4 -35.000   0.000  5 -17.500   0.000  6   0.000   0.000
  7  17.500   0.000  8  35.000   0.000  9  52.500   0.000 10  70.000   0.000
 11  87.500   0.000 12 105.000   0.000

LOAD GROUP NO. 4  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  10
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -60.000   0.000  2 -30.000   0.000
  3   0.000   0.000  4  30.000   0.000  5  60.000   0.000  6  90.000   0.000
  7 120.000   0.000  8 150.000   0.000  9 180.000   0.000 10 210.000   0.000

LOAD GROUP NO. 5  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  10
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -60.000   0.000  2 -30.000   0.000
  3   0.000   0.000  4  30.000   0.000  5  60.000   0.000  6  90.000   0.000
  7 120.000   0.000  8 150.000   0.000  9 180.000   0.000 10 210.000   0.000

LOAD GROUP NO. 6  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  10
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -60.000   0.000  2 -30.000   0.000
  3   0.000   0.000  4  30.000   0.000  5  60.000   0.000  6  90.000   0.000
  7 120.000   0.000  8 150.000   0.000  9 180.000   0.000 10 210.000   0.000

LOAD GROUP NO. 7  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -30.000   0.000  2   0.000   0.000
  3  30.000   0.000  4  60.000   0.000  5  90.000   0.000  6 120.000   0.000
  7 150.000   0.000  8 180.000   0.000  9 210.000   0.000 10 240.000   0.000
 11 270.000   0.000 12 300.000   0.000

LOAD GROUP NO. 8  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
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CONTACT PRESSURE (CP)------------ = 600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 12
WHEEL SPACING ALONG X-AXIS (XW)------------------ = 120
WHEEL SPACING ALONG Y-AXIS (YW)------------------ = 35

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 -30.000 0.000 2 0.000 0.000
3 30.000 0.000 4 60.000 0.000 5 90.000 0.000 6 120.000 0.000
7 150.000 0.000 8 180.000 0.000 9 210.000 0.000 10 240.000 0.000
11 270.000 0.000 12 300.000 0.000

LOAD GROUP NO. 9 HAS 6 CONTACT AREAS
CONTACT RADIUS (CR)-------------- = 11
CONTACT PRESSURE (CP)------------ = 700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 12
WHEEL SPACING ALONG X-AXIS (XW)------------------ = 120
WHEEL SPACING ALONG Y-AXIS (YW)------------------ = 35

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 -30.000 0.000 2 0.000 0.000
3 30.000 0.000 4 60.000 0.000 5 90.000 0.000 6 120.000 0.000
7 150.000 0.000 8 180.000 0.000 9 210.000 0.000 10 240.000 0.000
11 270.000 0.000 12 300.000 0.000

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.04160	0.000	91.231	9.521	65.406
	(STRAIN)		-3.960E-05	3.884E-05	-3.960E-05	1.187E-05
1	3.00000	0.03983	-0.027	54.274	-2.313	9.962
	(STRAIN)		-1.819E-05	3.394E-05	-2.038E-05	-1.488E-05
1	10.50000	0.03990	1.135	23.319	-8.966	15.318
	(STRAIN)		-5.902E-06	1.406E-05	-1.499E-05	-3.741E-06
1	18.00000	0.03991	2.617	18.677	-8.856	-4.536
	(STRAIN)		1.122E-06	1.558E-05	-9.203E-06	-6.241E-06
1	25.50000	0.03988	3.927	16.034	-26.598	-4.733
	(STRAIN)		8.524E-06	2.160E-05	-2.444E-05	-2.775E-05
1	33.00000	0.03979	4.480	11.411	-50.058	3.722
	(STRAIN)		1.462E-05	2.210E-05	-4.428E-05	-5.018E-05
2	0.00000	0.04591	520.000	124.439	14.356	94.627
	(STRAIN)		-5.469E-05	5.099E-05	-5.469E-05	1.886E-05
2	3.00000	0.04456	0.205	77.663	-1.596	30.695
	(STRAIN)		-3.112E-05	4.324E-05	-3.285E-05	-9.607E-06
2	10.50000	0.04467	1.525	31.554	-11.674	27.242
	(STRAIN)		-9.623E-06	1.740E-05	-2.150E-05	-4.568E-07
2	18.00000	0.04470	3.526	25.546	-16.006	-8.047
	(STRAIN)		2.825E-06	2.264E-05	-1.475E-05	-9.100E-06
2	25.50000	0.04463	5.278	17.355	-39.067	-14.179
	(STRAIN)		1.575E-05	2.879E-05	-3.214E-05	-3.716E-05
2	33.00000	0.04447	5.988	6.564	-72.647	-6.757
	(STRAIN)		2.686E-05	2.748E-05	-5.806E-05	-6.706E-05
3	0.00000	0.05043	0.000	166.289	22.515	139.852
	(STRAIN)		-7.479E-05	6.323E-05	-7.479E-05	3.149E-05
3	3.00000	0.04959	0.160	110.692	-1.805	66.110
	(STRAIN)		-5.118E-05	5.493E-05	-5.306E-05	1.567E-06
3	10.50000	0.04978	1.795	47.018	-16.102	42.248
	(STRAIN)		-1.546E-05	2.524E-05	-3.156E-05	6.042E-06
3	18.00000	0.04982	4.405	36.008	-27.971	-13.562

	(STRAIN)		5.254E-06	3.370E-05	-2.388E-05	-1.338E-05
3	25.50000	0.04970	6.899	20.685	-57.084	-32.801
	(STRAIN)		2.683E-05	4.172E-05	-4.227E-05	-4.980E-05
3	33.00000	0.04942	7.932	8.156	-105.194	-36.176
	(STRAIN)		4.587E-05	4.611E-05	-7.631E-05	-8.992E-05
4	0.00000	0.05522	0.000	235.650	42.610	215.329
	(STRAIN)		-1.039E-04	8.144E-05	-1.039E-04	5.683E-05
4	3.00000	0.05470	0.034	156.710	-2.288	123.002
	(STRAIN)		-8.134E-05	6.906E-05	-8.357E-05	2.307E-05
4	10.50000	0.05500	1.611	81.255	-23.078	56.169
	(STRAIN)		-2.523E-05	4.645E-05	-4.745E-05	1.806E-05
4	18.00000	0.05507	5.271	54.765	-47.919	-22.135
	(STRAIN)		8.312E-06	5.286E-05	-3.956E-05	-2.002E-05
4	25.50000	0.05487	8.875	27.699	-83.484	-67.334
	(STRAIN)		4.406E-05	6.439E-05	-5.569E-05	-6.588E-05
4	33.00000	0.05441	10.489	10.612	-153.701	-91.164
	(STRAIN)		7.692E-05	7.705E-05	-1.004E-04	-1.197E-04
5	0.00000	0.05989	0.000	359.437	102.300	347.566
	(STRAIN)		-1.392E-04	1.077E-04	-1.392E-04	9.059E-05
5	3.00000	0.05974	5.582	260.896	-0.978	215.013
	(STRAIN)		-1.340E-04	1.111E-04	-1.403E-04	5.980E-05
5	10.50000	0.06015	41.895	183.895	-23.741	73.490
	(STRAIN)		-1.681E-05	1.110E-04	-7.588E-05	9.417E-06
5	18.00000	0.06006	39.198	102.245	-71.980	-36.150
	(STRAIN)		3.665E-05	9.339E-05	-6.341E-05	-3.527E-05
5	25.50000	0.05962	22.974	44.174	-126.310	-113.036
	(STRAIN)		7.946E-05	1.024E-04	-8.177E-05	-8.464E-05
5	33.00000	0.05884	13.947	14.000	-231.465	-195.326
	(STRAIN)		1.306E-04	1.307E-04	-1.344E-04	-1.539E-04
6	0.00000	0.06437	0.000	723.341	412.806	708.144
	(STRAIN)		-1.447E-04	1.534E-04	-1.447E-04	1.388E-04
6	3.00000	0.06519	503.012	577.816	500.812	556.892
	(STRAIN)		3.140E-06	7.495E-05	1.027E-06	5.276E-05
6	10.50000	0.06392	313.538	317.534	101.068	101.197
	(STRAIN)		1.609E-04	1.645E-04	-3.033E-05	-3.022E-05
6	18.00000	0.06289	142.862	148.802	-68.990	-54.596
	(STRAIN)		1.227E-04	1.280E-04	-6.797E-05	-6.797E-05
6	25.50000	0.06197	52.397	55.904	-154.597	-133.187
	(STRAIN)		1.215E-04	1.253E-04	-1.020E-04	-1.020E-04
6	33.00000	0.06091	16.324	16.339	-308.201	-263.347
	(STRAIN)		1.731E-04	1.731E-04	-1.774E-04	-1.774E-04
7	0.00000	0.05989	0.000	359.437	102.300	347.566
	(STRAIN)		-1.392E-04	1.077E-04	-1.392E-04	9.059E-05
7	3.00000	0.05974	5.582	260.896	-0.978	215.013
	(STRAIN)		-1.340E-04	1.111E-04	-1.403E-04	5.980E-05
7	10.50000	0.06015	41.895	183.895	-23.741	73.490
	(STRAIN)		-1.681E-05	1.110E-04	-7.588E-05	9.417E-06
7	18.00000	0.06006	39.198	102.245	-71.980	-36.150
	(STRAIN)		3.665E-05	9.339E-05	-6.341E-05	-3.527E-05
7	25.50000	0.05962	22.974	44.174	-126.310	-113.036
	(STRAIN)		7.946E-05	1.024E-04	-8.177E-05	-8.464E-05
7	33.00000	0.05884	13.947	14.000	-231.465	-195.326
	(STRAIN)		1.306E-04	1.307E-04	-1.344E-04	-1.539E-04
8	0.00000	0.05522	0.000	235.650	42.610	215.329
	(STRAIN)		-1.039E-04	8.144E-05	-1.039E-04	5.683E-05
8	3.00000	0.05470	0.034	156.710	-2.288	123.002
	(STRAIN)		-8.134E-05	6.906E-05	-8.357E-05	2.307E-05
8	10.50000	0.05500	1.611	81.255	-23.078	56.169
	(STRAIN)		-2.523E-05	4.645E-05	-4.745E-05	1.806E-05

8	18.00000	0.05507	5.271	54.765	-47.919	-22.135
	(STRAIN)		8.312E-06	5.286E-05	-3.956E-05	-2.002E-05
8	25.50000	0.05487	8.875	27.699	-83.484	-67.334
	(STRAIN)		4.406E-05	6.439E-05	-5.569E-05	-6.588E-05
8	33.00000	0.05441	10.489	10.612	-153.701	-91.164
	(STRAIN)		7.692E-05	7.705E-05	-1.004E-04	-1.197E-04
9	0.00000	0.05043	0.000	166.289	22.515	139.852
	(STRAIN)		-7.479E-05	6.323E-05	-7.479E-05	3.149E-05
9	3.00000	0.04959	0.160	110.692	-1.805	66.110
	(STRAIN)		-5.118E-05	5.493E-05	-5.306E-05	1.567E-06
9	10.50000	0.04978	1.795	47.018	-16.102	42.248
	(STRAIN)		-1.546E-05	2.524E-05	-3.156E-05	6.042E-06
9	18.00000	0.04982	4.405	36.008	-27.971	-13.562
	(STRAIN)		5.254E-06	3.370E-05	-2.388E-05	-1.338E-05
9	25.50000	0.04970	6.899	20.685	-57.084	-32.801
	(STRAIN)		2.683E-05	4.172E-05	-4.227E-05	-4.980E-05
9	33.00000	0.04942	7.932	8.156	-105.194	-36.176
	(STRAIN)		4.587E-05	4.611E-05	-7.631E-05	-8.992E-05
10	0.00000	0.04591	0.000	124.439	14.356	94.627
	(STRAIN)		-5.469E-05	5.099E-05	-5.469E-05	1.886E-05
10	3.00000	0.04456	0.205	77.663	-1.596	30.695
	(STRAIN)		-3.112E-05	4.324E-05	-3.285E-05	-9.607E-06
10	10.50000	0.04467	1.525	31.554	-11.674	27.242
	(STRAIN)		-9.623E-06	1.740E-05	-2.150E-05	-4.568E-07
10	18.00000	0.04470	3.526	25.546	-16.006	-8.047
	(STRAIN)		2.825E-06	2.264E-05	-1.475E-05	-9.100E-06
10	25.50000	0.04463	5.278	17.355	-39.067	-14.179
	(STRAIN)		1.575E-05	2.879E-05	-3.214E-05	-3.716E-05
10	33.00000	0.04447	5.988	6.564	-72.647	-6.757
	(STRAIN)		2.686E-05	2.748E-05	-5.806E-05	-6.706E-05
11	0.00000	0.04160	0.000	91.231	9.521	65.406
	(STRAIN)		-3.960E-05	3.884E-05	-3.960E-05	1.187E-05
11	3.00000	0.03983	-0.027	54.274	-2.313	9.962
	(STRAIN)		-1.819E-05	3.394E-05	-2.038E-05	-1.488E-05
11	10.50000	0.03990	1.135	23.319	-8.966	15.318
	(STRAIN)		-5.902E-06	1.406E-05	-1.499E-05	-3.741E-06
11	18.00000	0.03991	2.617	18.677	-8.856	-4.536
	(STRAIN)		1.122E-06	1.558E-05	-9.203E-06	-6.241E-06
11	25.50000	0.03988	3.927	16.034	-26.598	-4.733
	(STRAIN)		8.524E-06	2.160E-05	-2.444E-05	-2.775E-05
11	33.00000	0.03979	4.480	11.411	-50.058	3.722
	(STRAIN)		1.462E-05	2.210E-05	-4.428E-05	-5.018E-05
12	0.00000	0.03773	0.000	68.110	6.753	46.489
	(STRAIN)		-2.911E-05	2.979E-05	-2.911E-05	7.670E-06
12	3.00000	0.03551	0.343	37.926	-6.417	1.719
	(STRAIN)		-9.418E-06	2.666E-05	-1.591E-05	-1.737E-05
12	10.50000	0.03555	0.831	17.270	-7.350	8.107
	(STRAIN)		-3.459E-06	1.134E-05	-1.082E-05	-5.338E-06
12	18.00000	0.03556	1.920	13.986	-4.571	-2.274
	(STRAIN)		6.205E-08	1.092E-05	-5.780E-06	-4.291E-06
12	25.50000	0.03555	2.887	15.936	-17.924	-0.697
	(STRAIN)		3.870E-06	1.796E-05	-1.861E-05	-2.080E-05
12	33.00000	0.03551	3.316	19.910	-34.289	3.095
	(STRAIN)		6.741E-06	2.466E-05	-3.387E-05	-3.778E-05

PERIOD NO. 1 LOAD GROUP NO. 2

POINT	VERTICAL	VERTICAL	VERTICAL	MAJOR PRINCIPAL	MINOR PRINCIAL	INTERMEDIATE P. STRESS

NO.	COORDINATE	DISP.	STRESS (STRAIN)	STRESS (STRAIN)	STRESS (STRAIN)	(HORIZONTAL P. STRAIN)
1	0.00000	0.04800	0.000	105.266	10.986	75.469
	(STRAIN)		-4.569E-05	4.482E-05	-4.569E-05	1.370E-05
1	3.00000	0.04595	-0.031	62.624	-2.669	11.494
	(STRAIN)		-2.099E-05	3.916E-05	-2.352E-05	-1.717E-05
1	10.50000	0.04603	1.309	26.906	-10.345	17.674
	(STRAIN)		-6.810E-06	1.623E-05	-1.730E-05	-4.317E-06
1	18.00000	0.04605	3.020	21.550	-10.218	-5.234
	(STRAIN)		1.295E-06	1.797E-05	-1.062E-05	-7.201E-06
1	25.50000	0.04601	4.531	18.500	-30.690	-5.461
	(STRAIN)		9.835E-06	2.492E-05	-2.820E-05	-3.201E-05
1	33.00000	0.04591	5.169	13.166	-57.759	4.294
	(STRAIN)		1.687E-05	2.550E-05	-5.110E-05	-5.790E-05
2	0.00000	0.05297	600.000	143.583	16.565	109.185
	(STRAIN)		-6.310E-05	5.884E-05	-6.310E-05	2.177E-05
2	3.00000	0.05141	0.236	89.611	-1.841	35.418
	(STRAIN)		-3.591E-05	4.989E-05	-3.790E-05	-1.108E-05
2	10.50000	0.05155	1.759	36.408	-13.469	31.434
	(STRAIN)		-1.110E-05	2.008E-05	-2.481E-05	-5.270E-07
2	18.00000	0.05158	4.068	29.477	-18.469	-9.285
	(STRAIN)		3.260E-06	2.613E-05	-1.702E-05	-1.050E-05
2	25.50000	0.05149	6.090	20.026	-45.078	-16.361
	(STRAIN)		1.817E-05	3.322E-05	-3.709E-05	-4.288E-05
2	33.00000	0.05131	6.910	7.574	-83.823	-7.797
	(STRAIN)		3.100E-05	3.171E-05	-6.700E-05	-7.737E-05
3	0.00000	0.05819	0.000	191.871	25.978	161.368
	(STRAIN)		-8.630E-05	7.296E-05	-8.630E-05	3.633E-05
3	3.00000	0.05722	0.185	127.722	-2.082	76.280
	(STRAIN)		-5.905E-05	6.338E-05	-6.123E-05	1.808E-06
3	10.50000	0.05744	2.071	54.252	-18.579	48.748
	(STRAIN)		-1.783E-05	2.913E-05	-3.642E-05	6.972E-06
3	18.00000	0.05748	5.083	41.547	-32.274	-15.648
	(STRAIN)		6.062E-06	3.888E-05	-2.756E-05	-1.544E-05
3	25.50000	0.05734	7.960	23.868	-65.866	-37.847
	(STRAIN)		3.095E-05	4.813E-05	-4.878E-05	-5.747E-05
3	33.00000	0.05703	9.153	9.411	-121.378	-41.741
	(STRAIN)		5.292E-05	5.320E-05	-8.805E-05	-1.038E-04
4	0.00000	0.06371	0.000	271.904	49.166	248.456
	(STRAIN)		-1.199E-04	9.397E-05	-1.199E-04	6.558E-05
4	3.00000	0.06311	0.040	180.820	-2.640	141.925
	(STRAIN)		-9.386E-05	7.969E-05	-9.643E-05	2.662E-05
4	10.50000	0.06346	1.859	93.756	-26.629	64.810
	(STRAIN)		-2.911E-05	5.359E-05	-5.475E-05	2.084E-05
4	18.00000	0.06354	6.082	63.190	-55.291	-25.540
	(STRAIN)		9.590E-06	6.099E-05	-4.565E-05	-2.309E-05
4	25.50000	0.06331	10.240	31.961	-96.328	-77.693
	(STRAIN)		5.084E-05	7.429E-05	-6.426E-05	-7.602E-05
4	33.00000	0.06278	12.103	12.245	-177.347	-105.190
	(STRAIN)		8.875E-05	8.891E-05	-1.159E-04	-1.381E-04
5	0.00000	0.06910	0.000	414.733	118.038	401.039
	(STRAIN)		-1.606E-04	1.242E-04	-1.606E-04	1.045E-04
5	3.00000	0.06894	6.441	301.034	-1.128	248.093
	(STRAIN)		-1.546E-04	1.282E-04	-1.618E-04	6.900E-05
5	10.50000	0.06940	48.341	212.186	-27.394	84.796
	(STRAIN)		-1.940E-05	1.281E-04	-8.756E-05	1.087E-05
5	18.00000	0.06930	45.229	117.975	-83.054	-41.712
	(STRAIN)		4.229E-05	1.078E-04	-7.316E-05	-4.069E-05
5	25.50000	0.06879	26.509	50.970	-145.742	-130.426

	(STRAIN)		9.168E-05	1.181E-04	-9.435E-05	-9.766E-05
5	33.00000	0.06789	16.092	16.154	-267.074	-225.376
	(STRAIN)		1.507E-04	1.508E-04	-1.551E-04	-1.776E-04
6	0.00000	0.07427	0.000	834.633	476.315	817.081
	(STRAIN)		-1.670E-04	1.770E-04	-1.670E-04	1.602E-04
6	3.00000	0.07522	580.399	666.675	577.850	642.613
	(STRAIN)		3.623E-06	8.645E-05	1.175E-06	6.087E-05
6	10.50000	0.07376	361.774	366.385	116.639	116.744
	(STRAIN)		1.857E-04	1.898E-04	-3.497E-05	-3.487E-05
6	18.00000	0.07257	164.840	171.694	-79.604	-62.996
	(STRAIN)		1.416E-04	1.477E-04	-7.843E-05	-7.843E-05
6	25.50000	0.07150	60.458	64.505	-178.381	-153.678
	(STRAIN)		1.402E-04	1.446E-04	-1.177E-04	-1.177E-04
6	33.00000	0.07028	18.835	18.852	-355.616	-303.862
	(STRAIN)		1.997E-04	1.997E-04	-2.047E-04	-2.047E-04
7	0.00000	0.06910	0.000	414.733	118.038	401.039
	(STRAIN)		-1.606E-04	1.242E-04	-1.606E-04	1.045E-04
7	3.00000	0.06894	6.441	301.034	-1.128	248.093
	(STRAIN)		-1.546E-04	1.282E-04	-1.618E-04	6.900E-05
7	10.50000	0.06940	48.341	212.186	-27.394	84.796
	(STRAIN)		-1.940E-05	1.281E-04	-8.756E-05	1.087E-05
7	18.00000	0.06930	45.229	117.975	-83.054	-41.712
	(STRAIN)		4.229E-05	1.078E-04	-7.316E-05	-4.069E-05
7	25.50000	0.06879	26.509	50.970	-145.742	-130.426
	(STRAIN)		9.168E-05	1.181E-04	-9.435E-05	-9.766E-05
7	33.00000	0.06789	16.092	16.154	-267.074	-225.376
	(STRAIN)		1.507E-04	1.508E-04	-1.551E-04	-1.776E-04
8	0.00000	0.06371	0.000	271.904	49.166	248.456
	(STRAIN)		-1.199E-04	9.397E-05	-1.199E-04	6.558E-05
8	3.00000	0.06311	0.040	180.820	-2.640	141.925
	(STRAIN)		-9.386E-05	7.969E-05	-9.643E-05	2.662E-05
8	10.50000	0.06346	1.859	93.756	-26.629	64.810
	(STRAIN)		-2.911E-05	5.359E-05	-5.475E-05	2.084E-05
8	18.00000	0.06354	6.082	63.190	-55.291	-25.540
	(STRAIN)		9.590E-06	6.099E-05	-4.565E-05	-2.309E-05
8	25.50000	0.06331	10.240	31.961	-96.328	-77.693
	(STRAIN)		5.084E-05	7.429E-05	-6.426E-05	-7.602E-05
8	33.00000	0.06278	12.103	12.245	-177.347	-105.190
	(STRAIN)		8.875E-05	8.891E-05	-1.159E-04	-1.381E-04
9	0.00000	0.05819	0.000	191.871	25.978	161.368
	(STRAIN)		-8.630E-05	7.296E-05	-8.630E-05	3.633E-05
9	3.00000	0.05722	0.185	127.722	-2.082	76.280
	(STRAIN)		-5.905E-05	6.338E-05	-6.123E-05	1.808E-06
9	10.50000	0.05744	2.071	54.252	-18.579	48.748
	(STRAIN)		-1.783E-05	2.913E-05	-3.642E-05	6.972E-06
9	18.00000	0.05748	5.083	41.547	-32.274	-15.648
	(STRAIN)		6.062E-06	3.888E-05	-2.756E-05	-1.544E-05
9	25.50000	0.05734	7.960	23.868	-65.866	-37.847
	(STRAIN)		3.095E-05	4.813E-05	-4.878E-05	-5.747E-05
9	33.00000	0.05703	9.153	9.411	-121.378	-41.741
	(STRAIN)		5.292E-05	5.320E-05	-8.805E-05	-1.038E-04
10	0.00000	0.05297	0.000	143.583	16.565	109.185
	(STRAIN)		-6.310E-05	5.884E-05	-6.310E-05	2.177E-05
10	3.00000	0.05141	0.236	89.611	-1.841	35.418
	(STRAIN)		-3.591E-05	4.989E-05	-3.790E-05	-1.108E-05
10	10.50000	0.05155	1.759	36.408	-13.469	31.434
	(STRAIN)		-1.110E-05	2.008E-05	-2.481E-05	-5.270E-07
10	18.00000	0.05158	4.068	29.477	-18.469	-9.285
	(STRAIN)		3.260E-06	2.613E-05	-1.702E-05	-1.050E-05

10	25.50000	0.05149	6.090	20.026	-45.078	-16.361
	(STRAIN)		1.817E-05	3.322E-05	-3.709E-05	-4.288E-05
10	33.00000	0.05131	6.910	7.574	-83.823	-7.797
	(STRAIN)		3.100E-05	3.171E-05	-6.700E-05	-7.737E-05
11	0.00000	0.04800	0.000	105.266	10.986	75.469
	(STRAIN)		-4.569E-05	4.482E-05	-4.569E-05	1.370E-05
11	3.00000	0.04595	-0.031	62.624	-2.669	11.494
	(STRAIN)		-2.099E-05	3.916E-05	-2.352E-05	-1.717E-05
11	10.50000	0.04603	1.309	26.906	-10.345	17.674
	(STRAIN)		-6.810E-06	1.623E-05	-1.730E-05	-4.317E-06
11	18.00000	0.04605	3.020	21.550	-10.218	-5.234
	(STRAIN)		1.295E-06	1.797E-05	-1.062E-05	-7.201E-06
11	25.50000	0.04601	4.531	18.500	-30.690	-5.461
	(STRAIN)		9.835E-06	2.492E-05	-2.820E-05	-3.201E-05
11	33.00000	0.04591	5.169	13.166	-57.759	4.294
	(STRAIN)		1.687E-05	2.550E-05	-5.110E-05	-5.790E-05
12	0.00000	0.04354	0.000	78.589	7.792	53.641
	(STRAIN)		-3.359E-05	3.437E-05	-3.359E-05	8.850E-06
12	3.00000	0.04098	0.396	43.761	-7.404	1.983
	(STRAIN)		-1.087E-05	3.076E-05	-1.835E-05	-2.005E-05
12	10.50000	0.04102	0.959	19.927	-8.481	9.354
	(STRAIN)		-3.991E-06	1.308E-05	-1.249E-05	-6.159E-06
12	18.00000	0.04103	2.216	16.138	-5.274	-2.624
	(STRAIN)		7.160E-08	1.260E-05	-6.669E-06	-4.951E-06
12	25.50000	0.04102	3.331	18.388	-20.682	-0.805
	(STRAIN)		4.465E-06	2.073E-05	-2.147E-05	-2.400E-05
12	33.00000	0.04097	3.826	22.973	-39.564	3.571
	(STRAIN)		7.778E-06	2.846E-05	-3.908E-05	-4.359E-05

PERIOD NO. 1 LOAD GROUP NO. 3

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.05600	0.000	122.811	12.817	88.047
	(STRAIN)		-5.331E-05	5.229E-05	-5.331E-05	1.598E-05
1	3.00000	0.05361	-0.036	73.062	-3.114	13.410
	(STRAIN)		-2.449E-05	4.569E-05	-2.744E-05	-2.003E-05
1	10.50000	0.05371	1.528	31.391	-12.069	20.620
	(STRAIN)		-7.945E-06	1.893E-05	-2.018E-05	-5.036E-06
1	18.00000	0.05373	3.523	25.142	-11.921	-6.106
	(STRAIN)		1.511E-06	2.097E-05	-1.239E-05	-8.401E-06
1	25.50000	0.05368	5.286	21.584	-35.805	-6.371
	(STRAIN)		1.147E-05	2.908E-05	-3.290E-05	-3.735E-05
1	33.00000	0.05356	6.031	15.361	-67.386	5.010
	(STRAIN)		1.968E-05	2.975E-05	-5.961E-05	-6.755E-05
2	0.00000	0.06180	700.000	167.513	19.325	127.382
	(STRAIN)		-7.362E-05	6.864E-05	-7.362E-05	2.539E-05
2	3.00000	0.05998	0.276	104.546	-2.148	41.321
	(STRAIN)		-4.189E-05	5.821E-05	-4.422E-05	-1.293E-05
2	10.50000	0.06014	2.052	42.476	-15.714	36.672
	(STRAIN)		-1.295E-05	2.343E-05	-2.894E-05	-6.149E-07
2	18.00000	0.06017	4.746	34.390	-21.547	-10.833
	(STRAIN)		3.803E-06	3.048E-05	-1.986E-05	-1.225E-05
2	25.50000	0.06008	7.105	23.363	-52.591	-19.088
	(STRAIN)		2.120E-05	3.876E-05	-4.327E-05	-5.003E-05
2	33.00000	0.05986	8.061	8.836	-97.794	-9.096
	(STRAIN)		3.616E-05	3.700E-05	-7.816E-05	-9.027E-05

3	0.00000	0.06789	0.000	223.850	30.308	188.263
	(STRAIN)		-1.007E-04	8.512E-05	-1.007E-04	4.239E-05
3	3.00000	0.06676	0.216	149.009	-2.429	88.994
	(STRAIN)		-6.889E-05	7.395E-05	-7.143E-05	2.109E-06
3	10.50000	0.06701	2.416	63.294	-21.675	56.873
	(STRAIN)		-2.081E-05	3.398E-05	-4.249E-05	8.134E-06
3	18.00000	0.06706	5.930	48.472	-37.653	-18.256
	(STRAIN)		7.072E-06	4.536E-05	-3.215E-05	-1.802E-05
3	25.50000	0.06690	9.287	27.846	-76.843	-44.155
	(STRAIN)		3.611E-05	5.616E-05	-5.691E-05	-6.704E-05
3	33.00000	0.06653	10.678	10.980	-141.608	-48.698
	(STRAIN)		6.174E-05	6.207E-05	-1.027E-04	-1.211E-04
4	0.00000	0.07433	0.000	317.221	57.360	289.866
	(STRAIN)		-1.398E-04	1.096E-04	-1.398E-04	7.651E-05
4	3.00000	0.07363	0.046	210.956	-3.080	165.579
	(STRAIN)		-1.095E-04	9.297E-05	-1.125E-04	3.106E-05
4	10.50000	0.07404	2.168	109.381	-31.067	75.612
	(STRAIN)		-3.396E-05	6.253E-05	-6.388E-05	2.432E-05
4	18.00000	0.07413	7.096	73.722	-64.506	-29.797
	(STRAIN)		1.119E-05	7.115E-05	-5.325E-05	-2.694E-05
4	25.50000	0.07386	11.947	37.288	-112.383	-90.641
	(STRAIN)		5.931E-05	8.668E-05	-7.497E-05	-8.869E-05
4	33.00000	0.07325	14.120	14.285	-206.905	-122.721
	(STRAIN)		1.035E-04	1.037E-04	-1.352E-04	-1.611E-04
5	0.00000	0.08062	0.000	483.854	137.711	467.880
	(STRAIN)		-1.874E-04	1.449E-04	-1.874E-04	1.220E-04
5	3.00000	0.08043	7.514	351.207	-1.316	289.441
	(STRAIN)		-1.803E-04	1.496E-04	-1.888E-04	8.050E-05
5	10.50000	0.08097	56.398	247.551	-31.959	98.928
	(STRAIN)		-2.263E-05	1.494E-04	-1.022E-04	1.268E-05
5	18.00000	0.08085	52.767	137.638	-96.896	-48.664
	(STRAIN)		4.934E-05	1.257E-04	-8.536E-05	-4.748E-05
5	25.50000	0.08025	30.927	59.465	-170.033	-152.164
	(STRAIN)		1.070E-04	1.378E-04	-1.101E-04	-1.139E-04
5	33.00000	0.07921	18.774	18.847	-311.587	-262.939
	(STRAIN)		1.759E-04	1.759E-04	-1.809E-04	-2.072E-04
6	0.00000	0.08665	0.000	973.753	555.701	953.245
	(STRAIN)		-1.948E-04	2.065E-04	-1.948E-04	1.869E-04
6	3.00000	0.08775	677.132	777.840	674.174	749.647
	(STRAIN)		4.226E-06	1.009E-04	1.386E-06	7.102E-05
6	10.50000	0.08605	422.070	427.450	136.060	136.220
	(STRAIN)		2.166E-04	2.214E-04	-4.082E-05	-4.068E-05
6	18.00000	0.08466	192.314	200.310	-92.871	-73.495
	(STRAIN)		1.652E-04	1.724E-04	-9.150E-05	-9.150E-05
6	25.50000	0.08341	70.534	75.256	-208.111	-179.291
	(STRAIN)		1.636E-04	1.687E-04	-1.374E-04	-1.374E-04
6	33.00000	0.08200	21.974	21.994	-414.886	-354.506
	(STRAIN)		2.330E-04	2.330E-04	-2.388E-04	-2.388E-04
7	0.00000	0.08062	0.000	483.854	137.711	467.880
	(STRAIN)		-1.874E-04	1.449E-04	-1.874E-04	1.220E-04
7	3.00000	0.08043	7.514	351.207	-1.316	289.441
	(STRAIN)		-1.803E-04	1.496E-04	-1.888E-04	8.050E-05
7	10.50000	0.08097	56.398	247.551	-31.959	98.928
	(STRAIN)		-2.263E-05	1.494E-04	-1.022E-04	1.268E-05
7	18.00000	0.08085	52.767	137.638	-96.896	-48.664
	(STRAIN)		4.934E-05	1.257E-04	-8.536E-05	-4.748E-05
7	25.50000	0.08025	30.927	59.465	-170.033	-152.164
	(STRAIN)		1.070E-04	1.378E-04	-1.101E-04	-1.139E-04
7	33.00000	0.07921	18.774	18.847	-311.587	-262.939

	(STRAIN)		1.759E-04	1.759E-04	-1.809E-04	-2.072E-04
8	0.00000	0.07433	0.000	317.221	57.360	289.866
	(STRAIN)		-1.398E-04	1.096E-04	-1.398E-04	7.651E-05
8	3.00000	0.07363	0.046	210.956	-3.080	165.579
	(STRAIN)		-1.095E-04	9.297E-05	-1.125E-04	3.106E-05
8	10.50000	0.07404	2.168	109.381	-31.067	75.612
	(STRAIN)		-3.396E-05	6.253E-05	-6.388E-05	2.432E-05
8	18.00000	0.07413	7.096	73.722	-64.506	-29.797
	(STRAIN)		1.119E-05	7.115E-05	-5.325E-05	-2.694E-05
8	25.50000	0.07386	11.947	37.288	-112.383	-90.641
	(STRAIN)		5.931E-05	8.668E-05	-7.497E-05	-8.869E-05
8	33.00000	0.07325	14.120	14.285	-206.905	-122.721
	(STRAIN)		1.035E-04	1.037E-04	-1.352E-04	-1.611E-04
9	0.00000	0.06789	0.000	223.850	30.308	188.263
	(STRAIN)		-1.007E-04	8.512E-05	-1.007E-04	4.239E-05
9	3.00000	0.06676	0.216	149.009	-2.429	88.994
	(STRAIN)		-6.889E-05	7.395E-05	-7.143E-05	2.109E-06
9	10.50000	0.06701	2.416	63.294	-21.675	56.873
	(STRAIN)		-2.081E-05	3.398E-05	-4.249E-05	8.134E-06
9	18.00000	0.06706	5.930	48.472	-37.653	-18.256
	(STRAIN)		7.072E-06	4.536E-05	-3.215E-05	-1.802E-05
9	25.50000	0.06690	9.287	27.846	-76.843	-44.155
	(STRAIN)		3.611E-05	5.616E-05	-5.691E-05	-6.704E-05
9	33.00000	0.06653	10.678	10.980	-141.608	-48.698
	(STRAIN)		6.174E-05	6.207E-05	-1.027E-04	-1.211E-04
10	0.00000	0.06180	0.000	167.513	19.325	127.382
	(STRAIN)		-7.362E-05	6.864E-05	-7.362E-05	2.539E-05
10	3.00000	0.05998	0.276	104.546	-2.148	41.321
	(STRAIN)		-4.189E-05	5.821E-05	-4.422E-05	-1.293E-05
10	10.50000	0.06014	2.052	42.476	-15.714	36.672
	(STRAIN)		-1.295E-05	2.343E-05	-2.894E-05	-6.149E-07
10	18.00000	0.06017	4.746	34.390	-21.547	-10.833
	(STRAIN)		3.803E-06	3.048E-05	-1.986E-05	-1.225E-05
10	25.50000	0.06008	7.105	23.363	-52.591	-19.088
	(STRAIN)		2.120E-05	3.876E-05	-4.327E-05	-5.003E-05
10	33.00000	0.05986	8.061	8.836	-97.794	-9.096
	(STRAIN)		3.616E-05	3.700E-05	-7.816E-05	-9.027E-05
11	0.00000	0.05600	0.000	122.811	12.817	88.047
	(STRAIN)		-5.331E-05	5.229E-05	-5.331E-05	1.598E-05
11	3.00000	0.05361	-0.036	73.062	-3.114	13.410
	(STRAIN)		-2.449E-05	4.569E-05	-2.744E-05	-2.003E-05
11	10.50000	0.05371	1.528	31.391	-12.069	20.620
	(STRAIN)		-7.945E-06	1.893E-05	-2.018E-05	-5.036E-06
11	18.00000	0.05373	3.523	25.142	-11.921	-6.106
	(STRAIN)		1.511E-06	2.097E-05	-1.239E-05	-8.401E-06
11	25.50000	0.05368	5.286	21.584	-35.805	-6.371
	(STRAIN)		1.147E-05	2.908E-05	-3.290E-05	-3.735E-05
11	33.00000	0.05356	6.031	15.361	-67.386	5.010
	(STRAIN)		1.968E-05	2.975E-05	-5.961E-05	-6.755E-05
12	0.00000	0.05079	0.000	91.687	9.091	62.581
	(STRAIN)		-3.919E-05	4.010E-05	-3.919E-05	1.032E-05
12	3.00000	0.04781	0.462	51.054	-8.639	2.314
	(STRAIN)		-1.268E-05	3.589E-05	-2.141E-05	-2.339E-05
12	10.50000	0.04786	1.118	23.248	-9.894	10.913
	(STRAIN)		-4.656E-06	1.526E-05	-1.457E-05	-7.186E-06
12	18.00000	0.04787	2.585	18.827	-6.153	-3.061
	(STRAIN)		8.353E-08	1.470E-05	-7.781E-06	-5.777E-06
12	25.50000	0.04785	3.887	21.453	-24.129	-0.939
	(STRAIN)		5.210E-06	2.418E-05	-2.505E-05	-2.800E-05

12	33.00000	0.04780	4.464	26.802	-46.158	4.166
	(STRAIN)		9.074E-06	3.320E-05	-4.560E-05	-5.085E-05

PERIOD NO. 1 LOAD GROUP NO. 4

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.07442	0.000	173.302	21.302	132.982
	(STRAIN)		-7.564E-05	7.028E-05	-7.564E-05	2.701E-05
1	3.00000	0.06946	0.110	102.531	-2.674	34.029
	(STRAIN)		-3.917E-05	5.916E-05	-4.184E-05	-1.674E-05
1	10.50000	0.06961	1.917	42.398	-16.237	34.420
	(STRAIN)		-1.241E-05	2.402E-05	-2.875E-05	-1.999E-06
1	18.00000	0.06965	4.502	34.802	-20.382	-9.713
	(STRAIN)		2.954E-06	3.022E-05	-1.944E-05	-1.185E-05
1	25.50000	0.06956	6.847	25.104	-50.675	-15.954
	(STRAIN)		1.902E-05	3.874E-05	-4.310E-05	-4.945E-05
1	33.00000	0.06937	7.821	9.426	-95.031	-1.029
	(STRAIN)		3.270E-05	3.444E-05	-7.838E-05	-8.980E-05
2	0.00000	0.08644	520.000	300.816	58.141	269.903
	(STRAIN)		-1.287E-04	1.043E-04	-1.287E-04	6.920E-05
2	3.00000	0.08264	-0.453	185.108	-3.413	131.838
	(STRAIN)		-9.240E-05	8.573E-05	-9.525E-05	1.992E-05
2	10.50000	0.08299	2.918	95.567	-28.168	68.660
	(STRAIN)		-2.912E-05	5.426E-05	-5.710E-05	2.104E-05
2	18.00000	0.08306	8.089	69.983	-54.327	-24.598
	(STRAIN)		9.367E-06	6.507E-05	-4.681E-05	-2.412E-05
2	25.50000	0.08284	11.525	36.865	-97.281	-72.463
	(STRAIN)		4.965E-05	7.702E-05	-6.786E-05	-7.882E-05
2	33.00000	0.08232	12.828	13.039	-182.106	-93.037
	(STRAIN)		8.724E-05	8.747E-05	-1.233E-04	-1.437E-04
3	0.00000	0.09915	0.000	763.086	418.038	757.589
	(STRAIN)		-1.674E-04	1.639E-04	-1.674E-04	1.563E-04
3	3.00000	0.09737	503.239	584.707	501.557	566.031
	(STRAIN)		-1.564E-06	7.665E-05	-3.178E-06	5.450E-05
3	10.50000	0.09612	314.166	318.708	98.047	114.284
	(STRAIN)		1.588E-04	1.629E-04	-3.567E-05	-3.594E-05
3	18.00000	0.09510	144.319	150.638	-62.001	-55.629
	(STRAIN)		1.222E-04	1.279E-04	-6.350E-05	-6.370E-05
3	25.50000	0.09417	54.596	58.155	-146.784	-139.311
	(STRAIN)		1.228E-04	1.266E-04	-9.470E-05	-9.675E-05
3	33.00000	0.09310	18.863	18.889	-292.963	-279.747
	(STRAIN)		1.754E-04	1.755E-04	-1.613E-04	-1.684E-04
4	0.00000	0.09766	0.000	350.611	63.777	313.184
	(STRAIN)		-1.522E-04	1.232E-04	-1.522E-04	8.677E-05
4	3.00000	0.09531	-0.002	215.957	-1.403	157.850
	(STRAIN)		-1.092E-04	9.808E-05	-1.106E-04	3.984E-05
4	10.50000	0.09572	3.657	96.605	-15.119	78.937
	(STRAIN)		-3.414E-05	4.951E-05	-5.104E-05	3.079E-05
4	18.00000	0.09581	9.780	56.166	-44.101	-23.041
	(STRAIN)		1.136E-05	5.311E-05	-3.713E-05	-2.423E-05
4	25.50000	0.09554	14.047	28.146	-113.022	-71.273
	(STRAIN)		5.889E-05	7.412E-05	-7.834E-05	-7.928E-05
4	33.00000	0.09493	15.677	15.703	-208.740	-113.816
	(STRAIN)		1.029E-04	1.029E-04	-1.395E-04	-1.438E-04
5	0.00000	0.09709	0.000	296.039	37.847	240.800
	(STRAIN)		-1.322E-04	1.156E-04	-1.322E-04	6.259E-05

5	3.00000	0.09481	0.373	183.922	0.272	100.291
	(STRAIN)		-8.309E-05	9.312E-05	-8.319E-05	1.283E-05
5	10.50000	0.09512	3.470	74.097	1.839	45.491
	(STRAIN)		-2.521E-05	3.835E-05	-2.668E-05	1.261E-05
5	18.00000	0.09519	8.142	12.604	-24.444	7.789
	(STRAIN)		8.273E-06	1.229E-05	-2.105E-05	-1.704E-05
5	25.50000	0.09499	12.373	13.121	-92.957	-26.035
	(STRAIN)		4.301E-05	4.381E-05	-7.075E-05	-6.994E-05
5	33.00000	0.09455	14.077	14.088	-170.815	-50.913
	(STRAIN)		7.334E-05	7.335E-05	-1.263E-04	-1.263E-04
6	0.00000	0.09766	520.000	350.612	63.777	313.184
	(STRAIN)		-1.522E-04	1.232E-04	-1.522E-04	8.677E-05
6	3.00000	0.09531	-0.002	215.957	-1.403	157.850
	(STRAIN)		-1.092E-04	9.808E-05	-1.106E-04	3.984E-05
6	10.50000	0.09572	3.657	96.605	-15.119	78.937
	(STRAIN)		-3.414E-05	4.951E-05	-5.104E-05	3.079E-05
6	18.00000	0.09581	9.780	56.166	-44.101	-23.041
	(STRAIN)		1.136E-05	5.311E-05	-3.713E-05	-2.423E-05
6	25.50000	0.09554	14.047	28.146	-113.022	-71.273
	(STRAIN)		5.889E-05	7.412E-05	-7.834E-05	-7.928E-05
6	33.00000	0.09493	15.677	15.703	-208.740	-113.816
	(STRAIN)		1.029E-04	1.029E-04	-1.395E-04	-1.438E-04
7	0.00000	0.09915	0.000	763.128	418.038	757.547
	(STRAIN)		-1.674E-04	1.639E-04	-1.674E-04	1.563E-04
7	3.00000	0.09737	503.239	584.721	501.560	566.015
	(STRAIN)		-1.564E-06	7.666E-05	-3.176E-06	5.450E-05
7	10.50000	0.09612	314.166	318.708	98.047	114.284
	(STRAIN)		1.588E-04	1.629E-04	-3.567E-05	-3.594E-05
7	18.00000	0.09510	144.319	150.638	-62.001	-55.629
	(STRAIN)		1.222E-04	1.279E-04	-6.350E-05	-6.370E-05
7	25.50000	0.09417	54.596	58.155	-146.784	-139.311
	(STRAIN)		1.228E-04	1.266E-04	-9.470E-05	-9.675E-05
7	33.00000	0.09310	18.863	18.889	-292.963	-279.747
	(STRAIN)		1.754E-04	1.755E-04	-1.613E-04	-1.684E-04
8	0.00000	0.08644	0.000	300.817	58.141	269.903
	(STRAIN)		-1.287E-04	1.043E-04	-1.287E-04	6.920E-05
8	3.00000	0.08264	-0.453	185.108	-3.413	131.838
	(STRAIN)		-9.240E-05	8.573E-05	-9.525E-05	1.992E-05
8	10.50000	0.08299	2.918	95.567	-28.168	68.660
	(STRAIN)		-2.912E-05	5.426E-05	-5.710E-05	2.104E-05
8	18.00000	0.08306	8.089	69.983	-54.327	-24.598
	(STRAIN)		9.367E-06	6.507E-05	-4.681E-05	-2.412E-05
8	25.50000	0.08284	11.525	36.865	-97.281	-72.463
	(STRAIN)		4.965E-05	7.702E-05	-6.786E-05	-7.882E-05
8	33.00000	0.08232	12.828	13.039	-182.106	-93.037
	(STRAIN)		8.724E-05	8.747E-05	-1.233E-04	-1.437E-04
9	0.00000	0.07442	0.000	173.302	21.302	132.982
	(STRAIN)		-7.564E-05	7.028E-05	-7.564E-05	2.701E-05
9	3.00000	0.06946	0.110	102.531	-2.674	34.029
	(STRAIN)		-3.917E-05	5.916E-05	-4.184E-05	-1.674E-05
9	10.50000	0.06961	1.917	42.398	-16.237	34.420
	(STRAIN)		-1.241E-05	2.402E-05	-2.875E-05	-1.999E-06
9	18.00000	0.06965	4.502	34.802	-20.382	-9.713
	(STRAIN)		2.954E-06	3.022E-05	-1.944E-05	-1.185E-05
9	25.50000	0.06956	6.847	25.104	-50.675	-15.954
	(STRAIN)		1.902E-05	3.874E-05	-4.310E-05	-4.945E-05
9	33.00000	0.06937	7.821	9.426	-95.031	-1.029
	(STRAIN)		3.270E-05	3.444E-05	-7.838E-05	-8.980E-05
10	0.00000	0.06378	0.000	103.977	10.789	72.263

	(STRAIN)		-4.450E-05	4.496E-05	-4.450E-05	1.244E-05
10	3.00000	0.05778	0.481	55.859	-10.348	2.309
	(STRAIN)		-1.356E-05	3.960E-05	-2.396E-05	-2.617E-05
10	10.50000	0.05784	1.192	25.708	-10.992	11.625
	(STRAIN)		-5.073E-06	1.699E-05	-1.604E-05	-8.132E-06
10	18.00000	0.05786	2.718	20.666	-6.613	-2.817
	(STRAIN)		-1.759E-07	1.598E-05	-8.573E-06	-6.032E-06
10	25.50000	0.05784	4.086	24.052	-25.729	-0.920
	(STRAIN)		5.140E-06	2.670E-05	-2.706E-05	-3.023E-05
10	33.00000	0.05778	4.690	30.788	-49.686	4.387
	(STRAIN)		9.128E-06	3.731E-05	-4.960E-05	-5.526E-05

PERIOD NO. 1 LOAD GROUP NO. 5

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.08587	0.000	199.964	24.579	153.441
	(STRAIN)		-8.728E-05	8.109E-05	-8.728E-05	3.116E-05
1	3.00000	0.08015	0.127	118.305	-3.086	39.265
	(STRAIN)		-4.519E-05	6.826E-05	-4.828E-05	-1.932E-05
1	10.50000	0.08032	2.212	48.921	-18.735	39.715
	(STRAIN)		-1.432E-05	2.772E-05	-3.317E-05	-2.306E-06
1	18.00000	0.08036	5.195	40.156	-23.517	-11.207
	(STRAIN)		3.408E-06	3.487E-05	-2.243E-05	-1.367E-05
1	25.50000	0.08026	7.901	28.966	-58.471	-18.409
	(STRAIN)		2.195E-05	4.470E-05	-4.973E-05	-5.706E-05
1	33.00000	0.08004	9.024	10.876	-109.651	-1.187
	(STRAIN)		3.774E-05	3.974E-05	-9.043E-05	-1.036E-04
2	0.00000	0.09974	600.000	347.096	67.086	311.426
	(STRAIN)		-1.484E-04	1.204E-04	-1.484E-04	7.984E-05
2	3.00000	0.09535	-0.522	213.587	-3.938	152.121
	(STRAIN)		-1.066E-04	9.892E-05	-1.099E-04	2.299E-05
2	10.50000	0.09576	3.367	110.270	-32.502	79.223
	(STRAIN)		-3.360E-05	6.261E-05	-6.588E-05	2.428E-05
2	18.00000	0.09584	9.334	80.750	-62.685	-28.383
	(STRAIN)		1.081E-05	7.508E-05	-5.401E-05	-2.784E-05
2	25.50000	0.09559	13.298	42.537	-112.247	-83.611
	(STRAIN)		5.729E-05	8.887E-05	-7.830E-05	-9.095E-05
2	33.00000	0.09499	14.801	15.045	-210.122	-107.351
	(STRAIN)		1.007E-04	1.009E-04	-1.423E-04	-1.658E-04
3	0.00000	0.11440	0.000	880.484	482.351	874.141
	(STRAIN)		-1.931E-04	1.891E-04	-1.931E-04	1.804E-04
3	3.00000	0.11235	580.661	674.693	578.726	653.076
	(STRAIN)		-1.804E-06	8.847E-05	-3.661E-06	6.288E-05
3	10.50000	0.11091	362.499	367.740	113.131	131.867
	(STRAIN)		1.833E-04	1.880E-04	-4.115E-05	-4.147E-05
3	18.00000	0.10973	166.522	173.813	-71.540	-64.188
	(STRAIN)		1.410E-04	1.475E-04	-7.327E-05	-7.350E-05
3	25.50000	0.10866	62.995	67.102	-169.366	-160.744
	(STRAIN)		1.417E-04	1.461E-04	-1.093E-04	-1.116E-04
3	33.00000	0.10743	21.765	21.795	-338.035	-322.784
	(STRAIN)		2.024E-04	2.025E-04	-1.862E-04	-1.943E-04
4	0.00000	0.11268	0.000	404.551	73.589	361.367
	(STRAIN)		-1.756E-04	1.421E-04	-1.756E-04	1.001E-04
4	3.00000	0.10997	-0.003	249.181	-1.619	182.135
	(STRAIN)		-1.260E-04	1.132E-04	-1.276E-04	4.597E-05
4	10.50000	0.11045	4.219	111.468	-17.445	91.081

	(STRAIN)		-3.939E-05	5.713E-05	-5.889E-05	3.553E-05
4	18.00000	0.11055	11.285	64.806	-50.886	-26.586
	(STRAIN)		1.311E-05	6.128E-05	-4.284E-05	-2.796E-05
4	25.50000	0.11024	16.208	32.476	-130.410	-82.238
	(STRAIN)		6.795E-05	8.552E-05	-9.039E-05	-9.147E-05
4	33.00000	0.10954	18.089	18.119	-240.853	-131.326
	(STRAIN)		1.187E-04	1.187E-04	-1.610E-04	-1.659E-04
5	0.00000	0.11202	0.000	341.583	43.670	277.846
	(STRAIN)		-1.526E-04	1.334E-04	-1.526E-04	7.222E-05
5	3.00000	0.10940	0.431	212.217	0.314	115.720
	(STRAIN)		-9.587E-05	1.074E-04	-9.599E-05	1.480E-05
5	10.50000	0.10976	4.004	85.497	2.122	52.489
	(STRAIN)		-2.909E-05	4.426E-05	-3.078E-05	1.455E-05
5	18.00000	0.10983	9.395	14.543	-28.205	8.988
	(STRAIN)		9.546E-06	1.418E-05	-2.429E-05	-1.966E-05
5	25.50000	0.10961	14.277	15.140	-107.258	-30.041
	(STRAIN)		4.962E-05	5.056E-05	-8.163E-05	-8.070E-05
5	33.00000	0.10910	16.242	16.256	-197.094	-58.746
	(STRAIN)		8.463E-05	8.464E-05	-1.458E-04	-1.458E-04
6	0.00000	0.11268	600.000	404.552	73.589	361.366
	(STRAIN)		-1.756E-04	1.421E-04	-1.756E-04	1.001E-04
6	3.00000	0.10997	-0.003	249.181	-1.619	182.135
	(STRAIN)		-1.260E-04	1.132E-04	-1.276E-04	4.597E-05
6	10.50000	0.11045	4.219	111.468	-17.445	91.081
	(STRAIN)		-3.939E-05	5.713E-05	-5.889E-05	3.553E-05
6	18.00000	0.11055	11.285	64.806	-50.886	-26.586
	(STRAIN)		1.311E-05	6.128E-05	-4.284E-05	-2.796E-05
6	25.50000	0.11024	16.208	32.476	-130.410	-82.238
	(STRAIN)		6.795E-05	8.552E-05	-9.039E-05	-9.147E-05
6	33.00000	0.10954	18.089	18.119	-240.853	-131.326
	(STRAIN)		1.187E-04	1.187E-04	-1.610E-04	-1.659E-04
7	0.00000	0.11440	0.000	880.484	482.351	874.141
	(STRAIN)		-1.931E-04	1.891E-04	-1.931E-04	1.804E-04
7	3.00000	0.11235	580.661	674.699	578.729	653.068
	(STRAIN)		-1.804E-06	8.847E-05	-3.659E-06	6.288E-05
7	10.50000	0.11091	362.499	367.740	113.131	131.867
	(STRAIN)		1.833E-04	1.880E-04	-4.115E-05	-4.147E-05
7	18.00000	0.10973	166.522	173.813	-71.540	-64.188
	(STRAIN)		1.410E-04	1.475E-04	-7.327E-05	-7.350E-05
7	25.50000	0.10866	62.995	67.102	-169.366	-160.744
	(STRAIN)		1.417E-04	1.461E-04	-1.093E-04	-1.116E-04
7	33.00000	0.10743	21.765	21.795	-338.034	-322.785
	(STRAIN)		2.024E-04	2.025E-04	-1.862E-04	-1.943E-04
8	0.00000	0.09974	0.000	347.096	67.086	311.426
	(STRAIN)		-1.484E-04	1.204E-04	-1.484E-04	7.984E-05
8	3.00000	0.09535	-0.522	213.587	-3.938	152.121
	(STRAIN)		-1.066E-04	9.892E-05	-1.099E-04	2.299E-05
8	10.50000	0.09576	3.367	110.270	-32.502	79.223
	(STRAIN)		-3.360E-05	6.261E-05	-6.588E-05	2.428E-05
8	18.00000	0.09584	9.334	80.750	-62.685	-28.383
	(STRAIN)		1.081E-05	7.508E-05	-5.401E-05	-2.784E-05
8	25.50000	0.09559	13.298	42.537	-112.247	-83.611
	(STRAIN)		5.729E-05	8.887E-05	-7.830E-05	-9.095E-05
8	33.00000	0.09499	14.801	15.045	-210.122	-107.351
	(STRAIN)		1.007E-04	1.009E-04	-1.423E-04	-1.658E-04
9	0.00000	0.08587	0.000	199.964	24.579	153.441
	(STRAIN)		-8.728E-05	8.109E-05	-8.728E-05	3.116E-05
9	3.00000	0.08015	0.127	118.305	-3.086	39.265
	(STRAIN)		-4.519E-05	6.826E-05	-4.828E-05	-1.932E-05

9	10.50000	0.08032	2.212	48.921	-18.735	39.715
	(STRAIN)		-1.432E-05	2.772E-05	-3.317E-05	-2.306E-06
9	18.00000	0.08036	5.195	40.156	-23.517	-11.207
	(STRAIN)		3.408E-06	3.487E-05	-2.243E-05	-1.367E-05
9	25.50000	0.08026	7.901	28.966	-58.471	-18.409
	(STRAIN)		2.195E-05	4.470E-05	-4.973E-05	-5.706E-05
9	33.00000	0.08004	9.024	10.876	-109.651	-1.187
	(STRAIN)		3.774E-05	3.974E-05	-9.043E-05	-1.036E-04
10	0.00000	0.07360	0.000	119.974	12.449	83.381
	(STRAIN)		-5.135E-05	5.187E-05	-5.135E-05	1.436E-05
10	3.00000	0.06667	0.555	64.453	-11.940	2.664
	(STRAIN)		-1.565E-05	4.569E-05	-2.765E-05	-3.019E-05
10	10.50000	0.06674	1.376	29.664	-12.683	13.413
	(STRAIN)		-5.854E-06	1.961E-05	-1.851E-05	-9.383E-06
10	18.00000	0.06676	3.136	23.845	-7.630	-3.250
	(STRAIN)		-2.030E-07	1.844E-05	-9.892E-06	-6.960E-06
10	25.50000	0.06674	4.714	27.752	-29.687	-1.062
	(STRAIN)		5.930E-06	3.081E-05	-3.122E-05	-3.489E-05
10	33.00000	0.06667	5.411	35.525	-57.330	5.062
	(STRAIN)		1.053E-05	4.305E-05	-5.723E-05	-6.377E-05

PERIOD NO. 1 LOAD GROUP NO. 6

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.10018	0.000	233.292	28.676	179.014
	(STRAIN)		-1.018E-04	9.461E-05	-1.018E-04	3.636E-05
1	3.00000	0.09351	0.148	138.023	-3.600	45.809
	(STRAIN)		-5.273E-05	7.963E-05	-5.632E-05	-2.254E-05
1	10.50000	0.09371	2.581	57.075	-21.857	46.334
	(STRAIN)		-1.671E-05	3.234E-05	-3.870E-05	-2.691E-06
1	18.00000	0.09376	6.061	46.849	-27.437	-13.075
	(STRAIN)		3.976E-06	4.069E-05	-2.617E-05	-1.595E-05
1	25.50000	0.09364	9.217	33.794	-68.217	-21.477
	(STRAIN)		2.561E-05	5.215E-05	-5.802E-05	-6.657E-05
1	33.00000	0.09338	10.528	12.689	-127.927	-1.385
	(STRAIN)		4.402E-05	4.636E-05	-1.055E-04	-1.209E-04
2	0.00000	0.11636	700.000	404.946	78.267	363.330
	(STRAIN)		-1.732E-04	1.404E-04	-1.732E-04	9.315E-05
2	3.00000	0.11125	-0.609	249.185	-4.594	177.475
	(STRAIN)		-1.244E-04	1.154E-04	-1.282E-04	2.682E-05
2	10.50000	0.11172	3.928	128.648	-37.919	92.426
	(STRAIN)		-3.920E-05	7.305E-05	-7.686E-05	2.833E-05
2	18.00000	0.11182	10.889	94.208	-73.132	-33.113
	(STRAIN)		1.261E-05	8.760E-05	-6.301E-05	-3.247E-05
2	25.50000	0.11152	15.515	49.626	-130.955	-97.546
	(STRAIN)		6.684E-05	1.037E-04	-9.135E-05	-1.061E-04
2	33.00000	0.11082	17.268	17.553	-245.143	-125.242
	(STRAIN)		1.174E-04	1.178E-04	-1.660E-04	-1.934E-04
3	0.00000	0.13347	0.000	1027.248	562.743	1019.814
	(STRAIN)		-2.253E-04	2.206E-04	-2.253E-04	2.104E-04
3	3.00000	0.13107	677.437	787.147	675.183	761.914
	(STRAIN)		-2.105E-06	1.032E-04	-4.269E-06	7.336E-05
3	10.50000	0.12940	422.916	429.030	131.986	153.844
	(STRAIN)		2.138E-04	2.193E-04	-4.801E-05	-4.839E-05
3	18.00000	0.12802	194.276	202.782	-83.463	-74.886
	(STRAIN)		1.645E-04	1.721E-04	-8.548E-05	-8.576E-05

3	25.50000	0.12677	73.494	78.285	-197.594	-187.534
	(STRAIN)		1.653E-04	1.705E-04	-1.275E-04	-1.302E-04
3	33.00000	0.12533	25.392	25.427	-394.374	-376.582
	(STRAIN)		2.362E-04	2.362E-04	-2.172E-04	-2.267E-04
4	0.00000	0.13146	0.000	471.977	85.853	421.594
	(STRAIN)		-2.049E-04	1.658E-04	-2.049E-04	1.168E-04
4	3.00000	0.12830	-0.003	290.711	-1.889	212.491
	(STRAIN)		-1.471E-04	1.320E-04	-1.489E-04	5.363E-05
4	10.50000	0.12886	4.923	130.046	-20.352	106.261
	(STRAIN)		-4.596E-05	6.665E-05	-6.871E-05	4.145E-05
4	18.00000	0.12897	13.166	75.608	-59.367	-31.017
	(STRAIN)		1.530E-05	7.149E-05	-4.998E-05	-3.262E-05
4	25.50000	0.12861	18.910	37.888	-152.145	-95.944
	(STRAIN)		7.928E-05	9.978E-05	-1.055E-04	-1.067E-04
4	33.00000	0.12779	21.104	21.139	-280.996	-153.213
	(STRAIN)		1.385E-04	1.385E-04	-1.878E-04	-1.935E-04
5	0.00000	0.13069	0.000	398.514	50.948	324.153
	(STRAIN)		-1.780E-04	1.556E-04	-1.780E-04	8.426E-05
5	3.00000	0.12764	0.502	247.587	0.366	135.007
	(STRAIN)		-1.119E-04	1.253E-04	-1.120E-04	1.727E-05
5	10.50000	0.12805	4.671	99.746	2.475	61.238
	(STRAIN)		-3.394E-05	5.163E-05	-3.591E-05	1.697E-05
5	18.00000	0.12814	10.961	16.967	-32.906	10.486
	(STRAIN)		1.114E-05	1.654E-05	-2.834E-05	-2.294E-05
5	25.50000	0.12787	16.656	17.663	-125.134	-35.048
	(STRAIN)		5.789E-05	5.898E-05	-9.524E-05	-9.415E-05
5	33.00000	0.12728	18.949	18.965	-229.943	-68.537
	(STRAIN)		9.873E-05	9.875E-05	-1.701E-04	-1.701E-04
6	0.00000	0.13146	700.000	471.977	85.853	421.594
	(STRAIN)		-2.049E-04	1.658E-04	-2.049E-04	1.168E-04
6	3.00000	0.12830	-0.003	290.711	-1.889	212.491
	(STRAIN)		-1.471E-04	1.320E-04	-1.489E-04	5.363E-05
6	10.50000	0.12886	4.923	130.046	-20.352	106.261
	(STRAIN)		-4.596E-05	6.665E-05	-6.871E-05	4.145E-05
6	18.00000	0.12897	13.166	75.608	-59.367	-31.017
	(STRAIN)		1.530E-05	7.149E-05	-4.998E-05	-3.262E-05
6	25.50000	0.12861	18.910	37.888	-152.145	-95.944
	(STRAIN)		7.928E-05	9.978E-05	-1.055E-04	-1.067E-04
6	33.00000	0.12779	21.104	21.139	-280.996	-153.213
	(STRAIN)		1.385E-04	1.385E-04	-1.878E-04	-1.935E-04
7	0.00000	0.13347	0.000	1027.248	562.743	1019.814
	(STRAIN)		-2.253E-04	2.206E-04	-2.253E-04	2.104E-04
7	3.00000	0.13107	677.437	787.147	675.183	761.914
	(STRAIN)		-2.105E-06	1.032E-04	-4.269E-06	7.336E-05
7	10.50000	0.12940	422.916	429.030	131.986	153.844
	(STRAIN)		2.138E-04	2.193E-04	-4.801E-05	-4.839E-05
7	18.00000	0.12802	194.276	202.782	-83.463	-74.886
	(STRAIN)		1.645E-04	1.721E-04	-8.548E-05	-8.576E-05
7	25.50000	0.12677	73.494	78.285	-197.594	-187.535
	(STRAIN)		1.653E-04	1.705E-04	-1.275E-04	-1.302E-04
7	33.00000	0.12533	25.392	25.427	-394.373	-376.583
	(STRAIN)		2.362E-04	2.362E-04	-2.172E-04	-2.267E-04
8	0.00000	0.11636	0.000	404.946	78.267	363.330
	(STRAIN)		-1.732E-04	1.404E-04	-1.732E-04	9.315E-05
8	3.00000	0.11125	-0.609	249.185	-4.594	177.475
	(STRAIN)		-1.244E-04	1.154E-04	-1.282E-04	2.682E-05
8	10.50000	0.11172	3.928	128.648	-37.919	92.426
	(STRAIN)		-3.920E-05	7.305E-05	-7.686E-05	2.833E-05
8	18.00000	0.11182	10.889	94.208	-73.132	-33.113

	(STRAIN)		1.261E-05	8.760E-05	-6.301E-05	-3.247E-05
8	25.50000	0.11152	15.515	49.626	-130.955	-97.546
	(STRAIN)		6.684E-05	1.037E-04	-9.135E-05	-1.061E-04
8	33.00000	0.11082	17.268	17.553	-245.143	-125.242
	(STRAIN)		1.174E-04	1.178E-04	-1.660E-04	-1.934E-04
9	0.00000	0.10018	0.000	233.292	28.676	179.014
	(STRAIN)		-1.018E-04	9.461E-05	-1.018E-04	3.636E-05
9	3.00000	0.09351	0.148	138.023	-3.600	45.809
	(STRAIN)		-5.273E-05	7.963E-05	-5.632E-05	-2.254E-05
9	10.50000	0.09371	2.581	57.075	-21.857	46.334
	(STRAIN)		-1.671E-05	3.234E-05	-3.870E-05	-2.691E-06
9	18.00000	0.09376	6.061	46.849	-27.437	-13.075
	(STRAIN)		3.976E-06	4.069E-05	-2.617E-05	-1.595E-05
9	25.50000	0.09364	9.217	33.794	-68.217	-21.477
	(STRAIN)		2.561E-05	5.215E-05	-5.802E-05	-6.657E-05
9	33.00000	0.09338	10.528	12.689	-127.927	-1.385
	(STRAIN)		4.402E-05	4.636E-05	-1.055E-04	-1.209E-04
10	0.00000	0.08586	0.000	139.969	14.523	97.277
	(STRAIN)		-5.991E-05	6.052E-05	-5.991E-05	1.675E-05
10	3.00000	0.07779	0.648	75.195	-13.931	3.108
	(STRAIN)		-1.826E-05	5.330E-05	-3.226E-05	-3.523E-05
10	10.50000	0.07786	1.605	34.607	-14.797	15.649
	(STRAIN)		-6.829E-06	2.287E-05	-2.159E-05	-1.095E-05
10	18.00000	0.07789	3.658	27.819	-8.902	-3.792
	(STRAIN)		-2.368E-07	2.151E-05	-1.154E-05	-8.120E-06
10	25.50000	0.07786	5.500	32.378	-34.635	-1.239
	(STRAIN)		6.919E-06	3.595E-05	-3.643E-05	-4.070E-05
10	33.00000	0.07779	6.313	41.445	-66.885	5.905
	(STRAIN)		1.229E-05	5.023E-05	-6.677E-05	-7.440E-05

PERIOD NO. 1 LOAD GROUP NO. 7

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.10040	0.000	302.929	58.150	260.250
	(STRAIN)		-1.264E-04	1.086E-04	-1.264E-04	6.258E-05
1	3.00000	0.09651	0.121	186.339	-3.001	123.774
	(STRAIN)		-8.997E-05	8.880E-05	-9.297E-05	1.442E-05
1	10.50000	0.09686	2.977	93.003	-28.577	70.370
	(STRAIN)		-2.877E-05	5.225E-05	-5.717E-05	1.981E-05
1	18.00000	0.09693	8.117	70.870	-52.914	-23.267
	(STRAIN)		8.545E-06	6.502E-05	-4.638E-05	-2.378E-05
1	25.50000	0.09672	11.569	38.326	-96.415	-67.671
	(STRAIN)		4.771E-05	7.660E-05	-6.892E-05	-7.957E-05
1	33.00000	0.09622	12.889	13.152	-181.414	-82.640
	(STRAIN)		8.417E-05	8.446E-05	-1.257E-04	-1.455E-04
2	0.00000	0.11516	520.000	765.728	418.052	745.277
	(STRAIN)		-1.645E-04	1.692E-04	-1.645E-04	1.479E-04
2	3.00000	0.11330	503.917	587.052	502.254	554.983
	(STRAIN)		1.435E-06	8.125E-05	-1.608E-07	4.678E-05
2	10.50000	0.11205	314.242	318.814	94.097	116.597
	(STRAIN)		1.593E-04	1.634E-04	-3.886E-05	-3.928E-05
2	18.00000	0.11103	144.409	150.755	-58.906	-54.316
	(STRAIN)		1.212E-04	1.269E-04	-6.177E-05	-6.212E-05
2	25.50000	0.11011	54.737	58.310	-145.948	-131.462
	(STRAIN)		1.205E-04	1.243E-04	-9.628E-05	-9.705E-05
2	33.00000	0.10907	19.040	19.072	-290.692	-268.308

	(STRAIN)		1.717E-04	1.718E-04	-1.628E-04	-1.694E-04
3	0.00000	0.12042	0.000	367.109	65.533	323.333
	(STRAIN)		-1.588E-04	1.307E-04	-1.588E-04	8.840E-05
3	3.00000	0.11391	0.478	220.012	-1.032	144.257
	(STRAIN)		-1.061E-04	1.047E-04	-1.075E-04	3.016E-05
3	10.50000	0.11431	3.763	95.727	-15.562	78.895
	(STRAIN)		-3.373E-05	4.904E-05	-5.112E-05	2.663E-05
3	18.00000	0.11440	9.991	57.937	-42.636	-20.687
	(STRAIN)		1.025E-05	5.340E-05	-3.712E-05	-2.402E-05
3	25.50000	0.11415	14.374	29.580	-113.515	-61.724
	(STRAIN)		5.631E-05	7.273E-05	-8.181E-05	-8.169E-05
3	33.00000	0.11356	16.072	16.091	-210.440	-96.199
	(STRAIN)		9.871E-05	9.873E-05	-1.459E-04	-1.485E-04
4	0.00000	0.12297	0.000	319.476	40.225	255.227
	(STRAIN)		-1.418E-04	1.263E-04	-1.418E-04	6.461E-05
4	3.00000	0.11687	0.297	191.584	0.198	84.347
	(STRAIN)		-8.071E-05	1.029E-04	-8.081E-05	-1.620E-07
4	10.50000	0.11717	3.652	79.106	2.088	40.100
	(STRAIN)		-2.502E-05	4.289E-05	-2.642E-05	7.693E-06
4	18.00000	0.11724	8.574	14.105	-23.451	12.028
	(STRAIN)		7.090E-06	1.207E-05	-2.173E-05	-1.760E-05
4	25.50000	0.11706	13.034	13.821	-95.267	-13.015
	(STRAIN)		4.053E-05	4.138E-05	-7.644E-05	-7.573E-05
4	33.00000	0.11664	14.859	14.888	-176.401	-28.940
	(STRAIN)		6.937E-05	6.941E-05	-1.372E-04	-1.373E-04
5	0.00000	0.12746	0.000	385.310	67.174	335.004
	(STRAIN)		-1.665E-04	1.389E-04	-1.665E-04	8.974E-05
5	3.00000	0.12182	-0.452	230.568	-2.156	142.108
	(STRAIN)		-1.091E-04	1.127E-04	-1.108E-04	2.394E-05
5	10.50000	0.12224	4.005	97.232	-17.221	83.751
	(STRAIN)		-3.461E-05	4.930E-05	-5.371E-05	2.585E-05
5	18.00000	0.12233	10.596	62.263	-43.558	-22.002
	(STRAIN)		1.031E-05	5.681E-05	-3.843E-05	-2.578E-05
5	25.50000	0.12207	15.284	33.121	-118.859	-60.229
	(STRAIN)		5.738E-05	7.664E-05	-8.750E-05	-8.935E-05
5	33.00000	0.12148	17.123	17.192	-221.069	-89.043
	(STRAIN)		1.005E-04	1.006E-04	-1.567E-04	-1.624E-04
6	0.00000	0.13393	520.000	814.942	423.270	794.923
	(STRAIN)		-1.900E-04	1.860E-04	-1.900E-04	1.667E-04
6	3.00000	0.12955	503.466	609.981	502.239	556.851
	(STRAIN)		-6.267E-06	9.599E-05	-7.445E-06	4.499E-05
6	10.50000	0.12832	314.794	319.734	96.244	126.303
	(STRAIN)		1.568E-04	1.612E-04	-3.991E-05	-3.991E-05
6	18.00000	0.12731	145.776	152.125	-56.666	-54.659
	(STRAIN)		1.217E-04	1.274E-04	-6.052E-05	-5.871E-05
6	25.50000	0.12638	56.795	60.148	-157.255	-126.894
	(STRAIN)		1.241E-04	1.277E-04	-1.071E-04	-1.035E-04
6	33.00000	0.12530	21.402	21.421	-310.762	-263.092
	(STRAIN)		1.778E-04	1.778E-04	-1.809E-04	-1.809E-04
7	0.00000	0.12746	0.000	385.310	67.174	335.004
	(STRAIN)		-1.665E-04	1.389E-04	-1.665E-04	8.974E-05
7	3.00000	0.12182	-0.452	230.568	-2.156	142.108
	(STRAIN)		-1.091E-04	1.127E-04	-1.108E-04	2.394E-05
7	10.50000	0.12224	4.005	97.232	-17.221	83.751
	(STRAIN)		-3.461E-05	4.930E-05	-5.371E-05	2.585E-05
7	18.00000	0.12233	10.596	62.263	-43.558	-22.002
	(STRAIN)		1.031E-05	5.681E-05	-3.843E-05	-2.578E-05
7	25.50000	0.12207	15.284	33.121	-118.859	-60.229
	(STRAIN)		5.738E-05	7.664E-05	-8.750E-05	-8.935E-05

7	33.00000	0.12148	17.123	17.192	-221.069	-89.043
	(STRAIN)		1.005E-04	1.006E-04	-1.567E-04	-1.624E-04
8	0.00000	0.12297	0.000	319.476	40.225	255.228
	(STRAIN)		-1.418E-04	1.263E-04	-1.418E-04	6.461E-05
8	3.00000	0.11687	0.297	191.584	0.198	84.347
	(STRAIN)		-8.071E-05	1.029E-04	-8.081E-05	-1.620E-07
8	10.50000	0.11717	3.652	79.106	2.088	40.100
	(STRAIN)		-2.502E-05	4.289E-05	-2.642E-05	7.693E-06
8	18.00000	0.11724	8.574	14.105	-23.451	12.028
	(STRAIN)		7.090E-06	1.207E-05	-2.173E-05	-1.760E-05
8	25.50000	0.11706	13.034	13.821	-95.267	-13.015
	(STRAIN)		4.053E-05	4.138E-05	-7.644E-05	-7.573E-05
8	33.00000	0.11664	14.859	14.888	-176.401	-28.940
	(STRAIN)		6.937E-05	6.941E-05	-1.372E-04	-1.373E-04
9	0.00000	0.12042	0.000	367.109	65.533	323.332
	(STRAIN)		-1.588E-04	1.307E-04	-1.588E-04	8.840E-05
9	3.00000	0.11391	0.478	220.012	-1.032	144.257
	(STRAIN)		-1.061E-04	1.047E-04	-1.075E-04	3.016E-05
9	10.50000	0.11431	3.763	95.727	-15.562	78.895
	(STRAIN)		-3.373E-05	4.904E-05	-5.112E-05	2.663E-05
9	18.00000	0.11440	9.991	57.937	-42.636	-20.687
	(STRAIN)		1.025E-05	5.340E-05	-3.712E-05	-2.402E-05
9	25.50000	0.11415	14.374	29.580	-113.515	-61.724
	(STRAIN)		5.631E-05	7.273E-05	-8.181E-05	-8.169E-05
9	33.00000	0.11356	16.072	16.091	-210.440	-96.199
	(STRAIN)		9.871E-05	9.873E-05	-1.459E-04	-1.485E-04
10	0.00000	0.11516	520.000	765.731	418.052	745.275
	(STRAIN)		-1.645E-04	1.692E-04	-1.645E-04	1.479E-04
10	3.00000	0.11330	503.917	587.054	502.254	554.981
	(STRAIN)		1.435E-06	8.125E-05	-1.610E-07	4.678E-05
10	10.50000	0.11205	314.242	318.814	94.097	116.597
	(STRAIN)		1.593E-04	1.634E-04	-3.886E-05	-3.928E-05
10	18.00000	0.11103	144.409	150.755	-58.906	-54.316
	(STRAIN)		1.212E-04	1.269E-04	-6.177E-05	-6.212E-05
10	25.50000	0.11011	54.737	58.310	-145.948	-131.462
	(STRAIN)		1.205E-04	1.243E-04	-9.628E-05	-9.705E-05
10	33.00000	0.10907	19.040	19.072	-290.692	-268.308
	(STRAIN)		1.717E-04	1.718E-04	-1.628E-04	-1.694E-04
11	0.00000	0.10040	0.000	302.929	58.150	260.250
	(STRAIN)		-1.264E-04	1.086E-04	-1.264E-04	6.258E-05
11	3.00000	0.09651	0.121	186.339	-3.001	123.774
	(STRAIN)		-8.997E-05	8.880E-05	-9.297E-05	1.442E-05
11	10.50000	0.09686	2.977	93.003	-28.577	70.370
	(STRAIN)		-2.877E-05	5.225E-05	-5.717E-05	1.981E-05
11	18.00000	0.09693	8.117	70.870	-52.914	-23.267
	(STRAIN)		8.545E-06	6.502E-05	-4.638E-05	-2.378E-05
11	25.50000	0.09672	11.569	38.326	-96.415	-67.671
	(STRAIN)		4.771E-05	7.660E-05	-6.892E-05	-7.957E-05
11	33.00000	0.09622	12.889	13.152	-181.414	-82.640
	(STRAIN)		8.417E-05	8.446E-05	-1.257E-04	-1.455E-04
12	0.00000	0.08678	0.000	175.175	21.308	125.734
	(STRAIN)		-7.406E-05	7.365E-05	-7.406E-05	2.187E-05
12	3.00000	0.08173	0.447	103.689	-2.881	28.110
	(STRAIN)		-3.739E-05	6.173E-05	-4.058E-05	-2.129E-05
12	10.50000	0.08188	1.953	43.844	-16.772	32.639
	(STRAIN)		-1.217E-05	2.553E-05	-2.903E-05	-3.800E-06
12	18.00000	0.08191	4.501	35.492	-19.331	-8.534
	(STRAIN)		2.271E-06	3.016E-05	-1.918E-05	-1.146E-05
12	25.50000	0.08184	6.845	27.267	-49.895	-13.296

	(STRAIN)		1.745E-05	3.951E-05	-4.383E-05	-5.005E-05
12	33.00000	0.08166	7.825	12.282	-94.433	4.279
	(STRAIN)		3.026E-05	3.507E-05	-8.018E-05	-9.137E-05

PERIOD NO. 1 LOAD GROUP NO. 8

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.11584	0.000	349.534	67.096	300.288
	(STRAIN)		-1.459E-04	1.253E-04	-1.459E-04	7.221E-05
1	3.00000	0.11136	0.140	215.007	-3.463	142.816
	(STRAIN)		-1.038E-04	1.025E-04	-1.073E-04	1.664E-05
1	10.50000	0.11176	3.435	107.311	-32.973	81.196
	(STRAIN)		-3.320E-05	6.029E-05	-6.597E-05	2.286E-05
1	18.00000	0.11185	9.366	81.773	-61.055	-26.847
	(STRAIN)		9.859E-06	7.503E-05	-5.352E-05	-2.744E-05
1	25.50000	0.11160	13.349	44.223	-111.248	-78.082
	(STRAIN)		5.505E-05	8.839E-05	-7.952E-05	-9.182E-05
1	33.00000	0.11103	14.872	15.175	-209.324	-95.353
	(STRAIN)		9.712E-05	9.745E-05	-1.450E-04	-1.679E-04
2	0.00000	0.13287	600.000	883.534	482.368	859.934
	(STRAIN)		-1.898E-04	1.953E-04	-1.898E-04	1.706E-04
2	3.00000	0.13074	581.442	677.366	579.523	640.367
	(STRAIN)		1.656E-06	9.374E-05	-1.866E-07	5.398E-05
2	10.50000	0.12929	362.587	367.863	108.573	134.534
	(STRAIN)		1.838E-04	1.885E-04	-4.484E-05	-4.532E-05
2	18.00000	0.12811	166.626	173.948	-67.968	-62.673
	(STRAIN)		1.399E-04	1.464E-04	-7.128E-05	-7.168E-05
2	25.50000	0.12705	63.158	67.281	-168.402	-151.687
	(STRAIN)		1.390E-04	1.434E-04	-1.111E-04	-1.120E-04
2	33.00000	0.12585	21.969	22.006	-335.413	-309.586
	(STRAIN)		1.982E-04	1.982E-04	-1.878E-04	-1.955E-04
3	0.00000	0.13895	0.000	423.587	75.615	373.076
	(STRAIN)		-1.833E-04	1.508E-04	-1.833E-04	1.020E-04
3	3.00000	0.13143	0.552	253.860	-1.191	166.450
	(STRAIN)		-1.224E-04	1.208E-04	-1.241E-04	3.480E-05
3	10.50000	0.13190	4.341	110.454	-17.956	91.033
	(STRAIN)		-3.892E-05	5.658E-05	-5.898E-05	3.073E-05
3	18.00000	0.13200	11.528	66.851	-49.196	-23.870
	(STRAIN)		1.183E-05	6.162E-05	-4.283E-05	-2.771E-05
3	25.50000	0.13171	16.585	34.131	-130.978	-71.220
	(STRAIN)		6.497E-05	8.392E-05	-9.440E-05	-9.426E-05
3	33.00000	0.13104	18.545	18.566	-242.815	-110.998
	(STRAIN)		1.139E-04	1.139E-04	-1.684E-04	-1.714E-04
4	0.00000	0.14188	0.000	368.626	46.414	294.493
	(STRAIN)		-1.636E-04	1.458E-04	-1.636E-04	7.455E-05
4	3.00000	0.13485	0.342	221.059	0.228	97.323
	(STRAIN)		-9.313E-05	1.188E-04	-9.324E-05	-1.869E-07
4	10.50000	0.13520	4.214	91.277	2.409	46.269
	(STRAIN)		-2.886E-05	4.949E-05	-3.049E-05	8.877E-06
4	18.00000	0.13528	9.893	16.275	-27.059	13.878
	(STRAIN)		8.181E-06	1.393E-05	-2.507E-05	-2.031E-05
4	25.50000	0.13507	15.039	15.947	-109.924	-15.017
	(STRAIN)		4.676E-05	4.774E-05	-8.820E-05	-8.738E-05
4	33.00000	0.13459	17.145	17.178	-203.540	-33.393
	(STRAIN)		8.005E-05	8.008E-05	-1.583E-04	-1.585E-04
5	0.00000	0.14707	0.000	444.589	77.508	386.543

	(STRAIN)		-1.921E-04	1.603E-04	-1.921E-04	1.035E-04
5	3.00000	0.14056	-0.521	266.040	-2.487	163.971
	(STRAIN)		-1.259E-04	1.300E-04	-1.278E-04	2.762E-05
5	10.50000	0.14104	4.621	112.191	-19.870	96.635
	(STRAIN)		-3.993E-05	5.688E-05	-6.197E-05	2.983E-05
5	18.00000	0.14115	12.226	71.842	-50.259	-25.386
	(STRAIN)		1.189E-05	6.555E-05	-4.435E-05	-2.974E-05
5	25.50000	0.14085	17.635	38.217	-137.144	-69.495
	(STRAIN)		6.620E-05	8.843E-05	-1.010E-04	-1.031E-04
5	33.00000	0.14016	19.757	19.837	-255.079	-102.742
	(STRAIN)		1.160E-04	1.161E-04	-1.809E-04	-1.874E-04
6	0.00000	0.15454	600.000	940.312	488.388	917.224
	(STRAIN)		-2.193E-04	2.146E-04	-2.193E-04	1.924E-04
6	3.00000	0.14948	580.922	703.820	579.503	642.528
	(STRAIN)		-7.231E-06	1.108E-04	-8.593E-06	5.191E-05
6	10.50000	0.14807	363.224	368.923	111.050	145.734
	(STRAIN)		1.809E-04	1.860E-04	-4.605E-05	-4.605E-05
6	18.00000	0.14690	168.204	175.528	-65.383	-63.068
	(STRAIN)		1.404E-04	1.470E-04	-6.983E-05	-6.775E-05
6	25.50000	0.14582	65.532	69.401	-181.448	-146.416
	(STRAIN)		1.431E-04	1.473E-04	-1.236E-04	-1.194E-04
6	33.00000	0.14457	24.694	24.716	-358.571	-303.568
	(STRAIN)		2.051E-04	2.052E-04	-2.088E-04	-2.088E-04
7	0.00000	0.14707	0.000	444.588	77.508	386.543
	(STRAIN)		-1.921E-04	1.603E-04	-1.921E-04	1.035E-04
7	3.00000	0.14056	-0.521	266.040	-2.487	163.971
	(STRAIN)		-1.259E-04	1.300E-04	-1.278E-04	2.762E-05
7	10.50000	0.14104	4.621	112.191	-19.870	96.635
	(STRAIN)		-3.993E-05	5.688E-05	-6.197E-05	2.983E-05
7	18.00000	0.14115	12.226	71.842	-50.259	-25.386
	(STRAIN)		1.189E-05	6.555E-05	-4.435E-05	-2.974E-05
7	25.50000	0.14085	17.635	38.217	-137.144	-69.495
	(STRAIN)		6.620E-05	8.843E-05	-1.010E-04	-1.031E-04
7	33.00000	0.14016	19.757	19.837	-255.079	-102.742
	(STRAIN)		1.160E-04	1.161E-04	-1.809E-04	-1.874E-04
8	0.00000	0.14188	0.000	368.626	46.414	294.493
	(STRAIN)		-1.636E-04	1.458E-04	-1.636E-04	7.455E-05
8	3.00000	0.13485	0.342	221.059	0.228	97.323
	(STRAIN)		-9.313E-05	1.188E-04	-9.324E-05	-1.869E-07
8	10.50000	0.13520	4.214	91.277	2.409	46.269
	(STRAIN)		-2.886E-05	4.949E-05	-3.049E-05	8.877E-06
8	18.00000	0.13528	9.893	16.275	-27.059	13.878
	(STRAIN)		8.181E-06	1.393E-05	-2.507E-05	-2.031E-05
8	25.50000	0.13507	15.039	15.947	-109.924	-15.017
	(STRAIN)		4.676E-05	4.774E-05	-8.820E-05	-8.738E-05
8	33.00000	0.13459	17.145	17.178	-203.540	-33.393
	(STRAIN)		8.005E-05	8.008E-05	-1.583E-04	-1.585E-04
9	0.00000	0.13895	0.000	423.587	75.615	373.076
	(STRAIN)		-1.833E-04	1.508E-04	-1.833E-04	1.020E-04
9	3.00000	0.13143	0.552	253.860	-1.191	166.450
	(STRAIN)		-1.224E-04	1.208E-04	-1.241E-04	3.481E-05
9	10.50000	0.13190	4.341	110.454	-17.956	91.033
	(STRAIN)		-3.892E-05	5.658E-05	-5.898E-05	3.073E-05
9	18.00000	0.13200	11.528	66.851	-49.196	-23.870
	(STRAIN)		1.183E-05	6.162E-05	-4.283E-05	-2.771E-05
9	25.50000	0.13171	16.585	34.131	-130.978	-71.220
	(STRAIN)		6.497E-05	8.392E-05	-9.440E-05	-9.426E-05
9	33.00000	0.13104	18.545	18.566	-242.815	-110.998
	(STRAIN)		1.139E-04	1.139E-04	-1.684E-04	-1.714E-04

10	0.00000	0.13287	600.000	883.530	482.368	859.938
	(STRAIN)		-1.898E-04	1.953E-04	-1.898E-04	1.706E-04
10	3.00000	0.13074	581.442	677.365	579.523	640.368
	(STRAIN)		1.656E-06	9.374E-05	-1.867E-07	5.398E-05
10	10.50000	0.12929	362.587	367.863	108.573	134.535
	(STRAIN)		1.838E-04	1.885E-04	-4.484E-05	-4.532E-05
10	18.00000	0.12811	166.626	173.948	-67.968	-62.673
	(STRAIN)		1.399E-04	1.464E-04	-7.128E-05	-7.168E-05
10	25.50000	0.12705	63.158	67.281	-168.402	-151.687
	(STRAIN)		1.390E-04	1.434E-04	-1.111E-04	-1.120E-04
10	33.00000	0.12585	21.969	22.006	-335.414	-309.586
	(STRAIN)		1.982E-04	1.982E-04	-1.878E-04	-1.955E-04
11	0.00000	0.11584	0.000	349.534	67.096	300.289
	(STRAIN)		-1.459E-04	1.253E-04	-1.459E-04	7.221E-05
11	3.00000	0.11136	0.140	215.007	-3.463	142.816
	(STRAIN)		-1.038E-04	1.025E-04	-1.073E-04	1.664E-05
11	10.50000	0.11176	3.435	107.311	-32.973	81.196
	(STRAIN)		-3.320E-05	6.029E-05	-6.597E-05	2.286E-05
11	18.00000	0.11185	9.366	81.773	-61.055	-26.847
	(STRAIN)		9.859E-06	7.503E-05	-5.352E-05	-2.744E-05
11	25.50000	0.11160	13.349	44.223	-111.248	-78.082
	(STRAIN)		5.505E-05	8.839E-05	-7.952E-05	-9.182E-05
11	33.00000	0.11103	14.872	15.175	-209.324	-95.353
	(STRAIN)		9.712E-05	9.745E-05	-1.450E-04	-1.679E-04
12	0.00000	0.10013	0.000	202.124	24.586	145.077
	(STRAIN)		-8.546E-05	8.498E-05	-8.546E-05	2.523E-05
12	3.00000	0.09431	0.515	119.642	-3.324	32.435
	(STRAIN)		-4.314E-05	7.122E-05	-4.683E-05	-2.457E-05
12	10.50000	0.09447	2.254	50.589	-19.352	37.661
	(STRAIN)		-1.405E-05	2.945E-05	-3.349E-05	-4.385E-06
12	18.00000	0.09452	5.193	40.953	-22.305	-9.846
	(STRAIN)		2.620E-06	3.480E-05	-2.213E-05	-1.322E-05
12	25.50000	0.09443	7.898	31.462	-57.571	-15.341
	(STRAIN)		2.014E-05	4.558E-05	-5.057E-05	-5.775E-05
12	33.00000	0.09422	9.029	14.172	-108.961	4.937
	(STRAIN)		3.491E-05	4.046E-05	-9.252E-05	-1.054E-04

PERIOD NO. 1 LOAD GROUP NO. 9

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.13515	0.000	407.789	78.279	350.337
	(STRAIN)		-1.702E-04	1.461E-04	-1.702E-04	8.424E-05
1	3.00000	0.12992	0.163	250.841	-4.040	166.619
	(STRAIN)		-1.211E-04	1.195E-04	-1.251E-04	1.941E-05
1	10.50000	0.13038	4.007	125.196	-38.468	94.729
	(STRAIN)		-3.873E-05	7.034E-05	-7.696E-05	2.667E-05
1	18.00000	0.13049	10.927	95.401	-71.230	-31.321
	(STRAIN)		1.150E-05	8.753E-05	-6.244E-05	-3.201E-05
1	25.50000	0.13020	15.573	51.593	-129.789	-91.095
	(STRAIN)		6.422E-05	1.031E-04	-9.277E-05	-1.071E-04
1	33.00000	0.12953	17.351	17.705	-244.211	-111.246
	(STRAIN)		1.133E-04	1.137E-04	-1.692E-04	-1.959E-04
2	0.00000	0.15502	700.000	1030.784	562.763	1003.261
	(STRAIN)		-2.215E-04	2.278E-04	-2.215E-04	1.990E-04
2	3.00000	0.15252	678.349	790.255	676.107	747.103
	(STRAIN)		1.932E-06	1.094E-04	-2.206E-07	6.297E-05

2	10.50000	0.15084	423.018	429.173	126.669	156.957
	(STRAIN)		2.144E-04	2.199E-04	-5.232E-05	-5.288E-05
2	18.00000	0.14946	194.397	202.939	-79.296	-73.118
	(STRAIN)		1.632E-04	1.709E-04	-8.316E-05	-8.362E-05
2	25.50000	0.14823	73.684	78.494	-196.468	-176.968
	(STRAIN)		1.622E-04	1.674E-04	-1.296E-04	-1.306E-04
2	33.00000	0.14682	25.631	25.674	-391.315	-361.184
	(STRAIN)		2.312E-04	2.312E-04	-2.191E-04	-2.281E-04
3	0.00000	0.16210	0.000	494.185	88.217	435.255
	(STRAIN)		-2.138E-04	1.759E-04	-2.138E-04	1.190E-04
3	3.00000	0.15334	0.644	296.170	-1.390	194.192
	(STRAIN)		-1.428E-04	1.409E-04	-1.448E-04	4.061E-05
3	10.50000	0.15388	5.065	128.863	-20.949	106.205
	(STRAIN)		-4.540E-05	6.602E-05	-6.882E-05	3.585E-05
3	18.00000	0.15400	13.450	77.992	-57.395	-27.848
	(STRAIN)		1.380E-05	7.189E-05	-4.996E-05	-3.233E-05
3	25.50000	0.15366	19.350	39.819	-152.808	-83.090
	(STRAIN)		7.580E-05	9.791E-05	-1.101E-04	-1.100E-04
3	33.00000	0.15287	21.636	21.661	-283.284	-129.498
	(STRAIN)		1.329E-04	1.329E-04	-1.964E-04	-2.000E-04
4	0.00000	0.16553	0.000	430.064	54.150	343.575
	(STRAIN)		-1.908E-04	1.700E-04	-1.908E-04	8.697E-05
4	3.00000	0.15733	0.399	257.902	0.266	113.544
	(STRAIN)		-1.087E-04	1.386E-04	-1.088E-04	-2.180E-07
4	10.50000	0.15773	4.916	106.490	2.811	53.981
	(STRAIN)		-3.367E-05	5.774E-05	-3.557E-05	1.036E-05
4	18.00000	0.15783	11.541	18.988	-31.568	16.192
	(STRAIN)		9.545E-06	1.625E-05	-2.925E-05	-2.370E-05
4	25.50000	0.15758	17.546	18.605	-128.244	-17.520
	(STRAIN)		5.455E-05	5.570E-05	-1.029E-04	-1.019E-04
4	33.00000	0.15702	20.003	20.041	-237.463	-38.958
	(STRAIN)		9.339E-05	9.343E-05	-1.847E-04	-1.849E-04
5	0.00000	0.17158	0.000	518.686	90.426	450.967
	(STRAIN)		-2.241E-04	1.870E-04	-2.241E-04	1.208E-04
5	3.00000	0.16399	-0.608	310.380	-2.902	191.300
	(STRAIN)		-1.469E-04	1.517E-04	-1.491E-04	3.222E-05
5	10.50000	0.16455	5.391	130.890	-23.182	112.741
	(STRAIN)		-4.659E-05	6.636E-05	-7.230E-05	3.480E-05
5	18.00000	0.16467	14.263	83.816	-58.636	-29.617
	(STRAIN)		1.387E-05	7.647E-05	-5.174E-05	-3.470E-05
5	25.50000	0.16433	20.575	44.586	-160.002	-81.077
	(STRAIN)		7.724E-05	1.032E-04	-1.178E-04	-1.203E-04
5	33.00000	0.16352	23.050	23.143	-297.593	-119.866
	(STRAIN)		1.353E-04	1.354E-04	-2.110E-04	-2.187E-04
6	0.00000	0.18029	700.000	1097.022	569.786	1070.104
	(STRAIN)		-2.558E-04	2.503E-04	-2.558E-04	2.245E-04
6	3.00000	0.17439	677.742	821.130	676.092	749.605
	(STRAIN)		-8.436E-06	1.292E-04	-1.002E-05	6.056E-05
6	10.50000	0.17274	423.761	430.410	129.559	170.024
	(STRAIN)		2.111E-04	2.170E-04	-5.373E-05	-5.373E-05
6	18.00000	0.17138	196.237	204.783	-76.280	-73.579
	(STRAIN)		1.638E-04	1.715E-04	-8.147E-05	-7.904E-05
6	25.50000	0.17012	76.454	80.968	-211.689	-170.819
	(STRAIN)		1.670E-04	1.719E-04	-1.442E-04	-1.393E-04
6	33.00000	0.16867	28.810	28.835	-418.333	-354.162
	(STRAIN)		2.393E-04	2.394E-04	-2.436E-04	-2.435E-04
7	0.00000	0.17158	0.000	518.686	90.426	450.967
	(STRAIN)		-2.241E-04	1.870E-04	-2.241E-04	1.208E-04
7	3.00000	0.16399	-0.608	310.380	-2.902	191.300

	(STRAIN)		-1.469E-04	1.517E-04	-1.491E-04	3.222E-05
7	10.50000	0.16455	5.391	130.890	-23.182	112.741
	(STRAIN)		-4.659E-05	6.636E-05	-7.230E-05	3.480E-05
7	18.00000	0.16467	14.263	83.816	-58.636	-29.617
	(STRAIN)		1.387E-05	7.647E-05	-5.174E-05	-3.470E-05
7	25.50000	0.16433	20.575	44.586	-160.002	-81.077
	(STRAIN)		7.724E-05	1.032E-04	-1.178E-04	-1.203E-04
7	33.00000	0.16352	23.050	23.143	-297.593	-119.866
	(STRAIN)		1.353E-04	1.354E-04	-2.110E-04	-2.187E-04
8	0.00000	0.16553	0.000	430.064	54.150	343.575
	(STRAIN)		-1.908E-04	1.700E-04	-1.908E-04	8.697E-05
8	3.00000	0.15733	0.399	257.902	0.266	113.544
	(STRAIN)		-1.087E-04	1.386E-04	-1.088E-04	-2.180E-07
8	10.50000	0.15773	4.916	106.490	2.811	53.981
	(STRAIN)		-3.367E-05	5.774E-05	-3.557E-05	1.036E-05
8	18.00000	0.15783	11.541	18.988	-31.568	16.192
	(STRAIN)		9.545E-06	1.625E-05	-2.925E-05	-2.370E-05
8	25.50000	0.15758	17.546	18.605	-128.244	-17.520
	(STRAIN)		5.455E-05	5.570E-05	-1.029E-04	-1.019E-04
8	33.00000	0.15702	20.003	20.041	-237.463	-38.958
	(STRAIN)		9.339E-05	9.343E-05	-1.847E-04	-1.849E-04
9	0.00000	0.16210	0.000	494.185	88.217	435.255
	(STRAIN)		-2.138E-04	1.759E-04	-2.138E-04	1.190E-04
9	3.00000	0.15334	0.644	296.170	-1.390	194.192
	(STRAIN)		-1.428E-04	1.409E-04	-1.448E-04	4.061E-05
9	10.50000	0.15388	5.065	128.863	-20.949	106.205
	(STRAIN)		-4.540E-05	6.602E-05	-6.882E-05	3.585E-05
9	18.00000	0.15400	13.450	77.992	-57.395	-27.848
	(STRAIN)		1.380E-05	7.189E-05	-4.996E-05	-3.233E-05
9	25.50000	0.15366	19.350	39.819	-152.808	-83.090
	(STRAIN)		7.580E-05	9.791E-05	-1.101E-04	-1.100E-04
9	33.00000	0.15287	21.636	21.661	-283.284	-129.498
	(STRAIN)		1.329E-04	1.329E-04	-1.964E-04	-2.000E-04
10	0.00000	0.15502	700.000	1030.789	562.763	1003.256
	(STRAIN)		-2.215E-04	2.278E-04	-2.215E-04	1.990E-04
10	3.00000	0.15252	678.349	790.255	676.107	747.103
	(STRAIN)		1.932E-06	1.094E-04	-2.206E-07	6.297E-05
10	10.50000	0.15084	423.018	429.173	126.669	156.957
	(STRAIN)		2.144E-04	2.199E-04	-5.232E-05	-5.288E-05
10	18.00000	0.14946	194.397	202.939	-79.296	-73.118
	(STRAIN)		1.632E-04	1.709E-04	-8.316E-05	-8.362E-05
10	25.50000	0.14823	73.684	78.494	-196.468	-176.968
	(STRAIN)		1.622E-04	1.674E-04	-1.296E-04	-1.306E-04
10	33.00000	0.14682	25.631	25.674	-391.315	-361.184
	(STRAIN)		2.312E-04	2.312E-04	-2.191E-04	-2.281E-04
11	0.00000	0.13515	0.000	407.789	78.279	350.337
	(STRAIN)		-1.702E-04	1.461E-04	-1.702E-04	8.424E-05
11	3.00000	0.12992	0.163	250.841	-4.040	166.619
	(STRAIN)		-1.211E-04	1.195E-04	-1.251E-04	1.941E-05
11	10.50000	0.13038	4.007	125.196	-38.468	94.729
	(STRAIN)		-3.873E-05	7.034E-05	-7.696E-05	2.667E-05
11	18.00000	0.13049	10.927	95.401	-71.230	-31.321
	(STRAIN)		1.150E-05	8.753E-05	-6.244E-05	-3.201E-05
11	25.50000	0.13020	15.573	51.593	-129.789	-91.095
	(STRAIN)		6.422E-05	1.031E-04	-9.277E-05	-1.071E-04
11	33.00000	0.12953	17.351	17.705	-244.211	-111.246
	(STRAIN)		1.133E-04	1.137E-04	-1.692E-04	-1.959E-04
12	0.00000	0.11682	0.000	235.812	28.684	169.257
	(STRAIN)		-9.970E-05	9.915E-05	-9.970E-05	2.943E-05

12	3.00000	0.11003	0.601	139.582	-3.878	37.841
	(STRAIN)		-5.033E-05	8.309E-05	-5.463E-05	-2.866E-05
12	10.50000	0.11022	2.629	59.021	-22.578	43.937
	(STRAIN)		-1.639E-05	3.436E-05	-3.908E-05	-5.115E-06
12	18.00000	0.11027	6.059	47.778	-26.022	-11.487
	(STRAIN)		3.057E-06	4.060E-05	-2.582E-05	-1.542E-05
12	25.50000	0.11017	9.214	36.705	-67.166	-17.898
	(STRAIN)		2.349E-05	5.318E-05	-5.900E-05	-6.737E-05
12	33.00000	0.10992	10.534	16.533	-127.121	5.760
	(STRAIN)		4.073E-05	4.721E-05	-1.079E-04	-1.230E-04

Anexo B3
Gr12 – 12.5cm Granular/ 15cm Solo-Cimento

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INPUT FILE NAME  -C:\KENPAVE\para tcc\granular 12.5\transversal\gnular 12
transversal.DAT

NUMBER OF PROBLEMS TO BE SOLVED =  1

TITLE -MOno G/SC

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
NUMBER OF PERIODS PER YEAR (NPY) =  2
NUMBER OF LOAD GROUPS (NLG) =  12
TOLERANCE FOR INTEGRATION (DEL) -- =  0.001
NUMBER OF LAYERS (NL)------------- =  4
NUMBER OF Z COORDINATES (NZ)------ =  6
LIMIT OF INTEGRATION CYCLES (ICL)- =  80
COMPUTING CODE (NSTD)------------- =  9
SYSTEM OF UNITS (NUNIT)------------=  1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m^3, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 3  12.5  15
POISSON'S RATIOS OF LAYERS (PR) ARE : 0.44  0.35  0.35  0.35
VERTICAL COORDINATES OF POINTS (ZC) ARE:  0  3  7.2  15.5  23  30.5
ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  4.000E+05
   3  1.500E+06   4  3.000E+04

FOR PERIOD NO. 2 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  2.500E+05
   3  3.000E+05   4  3.000E+04

LOAD GROUP NO. 1 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18
LOAD GROUP NO. 2 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18
LOAD GROUP NO. 3 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18

LOAD GROUP NO. 4  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000
```

```
LOAD GROUP NO. 5  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 6  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 7  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 8  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 9  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
```

```
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 10  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 11  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 12  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

PERIOD NO.  1   LOAD GROUP NO.  1

   RADIAL     VERTICAL     VERTICAL   VERTICAL    RADIAL  TANGENTIAL   SHEAR
 COORDINATE  COORDINATE  DISPLACEMENT  STRESS     STRESS    STRESS     STRESS
                                      (STRAIN)   (STRAIN)  (STRAIN)   (STRAIN)
   0.00000     0.00000     0.05151    520.000   1353.832   1353.832     0.000
  (STRAIN)                           -3.080E-04  2.915E-04  2.915E-04  .000E+00
   0.00000     3.00000     0.05042    513.182    189.821    189.821     0.000
  (STRAIN)                            2.308E-04 -7.967E-05 -7.967E-05  .000E+00
   0.00000     7.20000     0.04662    426.221    109.175    109.175     0.000
  (STRAIN)                            8.745E-04 -1.955E-04 -1.955E-04  .000E+00
   0.00000    15.50000     0.04116    235.597    122.092    122.092     0.000
  (STRAIN)                            3.753E-04 -7.749E-06 -7.749E-06  .000E+00
   0.00000    23.00000     0.04039     85.915    -94.529    -94.529     0.000
  (STRAIN)                            1.014E-04 -6.101E-05 -6.101E-05  .000E+00
   0.00000    30.50000     0.03947     15.410   -334.840   -334.840     0.000
  (STRAIN)                            1.665E-04 -1.487E-04 -1.487E-04  .000E+00
   3.00000     0.00000     0.05066    520.000   1249.067   1268.816     0.000
  (STRAIN)                           -2.892E-04  2.628E-04  2.818E-04 -.406E-12
   3.00000     3.00000     0.04994    504.575    163.375    169.649    22.954
  (STRAIN)                            2.387E-04 -8.886E-05 -8.283E-05  .441E-04
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3.00000	7.20000	0.04623	410.420	107.318	104.730	36.993
(STRAIN)			8.405E-04	-1.825E-04	-1.912E-04	.250E-03
3.00000	15.50000	0.04103	225.703	118.241	117.670	34.068
(STRAIN)			3.578E-04	-4.849E-06	-6.776E-06	.230E-03
3.00000	23.00000	0.04030	82.966	-92.378	-93.823	23.245
(STRAIN)			9.876E-05	-5.905E-05	-6.035E-05	.418E-04
3.00000	30.50000	0.03939	15.271	-328.589	-331.030	0.766
(STRAIN)			1.641E-04	-1.454E-04	-1.476E-04	.138E-05
6.00000	0.00000	0.04821	520.000	949.172	1005.618	0.000
(STRAIN)			-2.336E-04	1.883E-04	2.425E-04	-.110E-10
6.00000	3.00000	0.04844	469.457	99.987	115.271	57.936
(STRAIN)			2.498E-04	-1.049E-04	-9.019E-05	.111E-03
6.00000	7.20000	0.04509	359.883	104.771	92.042	74.286
(STRAIN)			7.275E-04	-1.335E-04	-1.765E-04	.501E-03
6.00000	15.50000	0.04065	197.738	107.312	105.177	62.907
(STRAIN)			3.084E-04	3.230E-06	-3.977E-06	.425E-03
6.00000	23.00000	0.04001	74.683	-86.296	-91.750	43.653
(STRAIN)			9.133E-05	-5.355E-05	-5.846E-05	.786E-04
6.00000	30.50000	0.03914	14.868	-310.700	-320.068	1.474
(STRAIN)			1.571E-04	-1.359E-04	-1.444E-04	.265E-05
9.00000	0.00000	0.04510	520.000	648.637	706.516	0.000
(STRAIN)			-1.757E-04	1.276E-04	1.831E-04	.677E-11
9.00000	3.00000	0.04575	370.091	101.983	70.178	115.248
(STRAIN)			1.962E-04	-6.116E-05	-9.169E-05	.221E-03
9.00000	7.20000	0.04330	270.765	108.249	74.015	102.744
(STRAIN)			5.174E-04	-3.106E-05	-1.466E-04	.694E-03
9.00000	15.50000	0.04007	156.998	91.156	86.953	82.029
(STRAIN)			2.366E-04	1.443E-05	2.489E-07	.554E-03
9.00000	23.00000	0.03955	62.619	-77.303	-88.439	59.006
(STRAIN)			8.042E-05	-4.551E-05	-5.553E-05	.106E-03
9.00000	30.50000	0.03876	14.244	-283.416	-303.100	2.078
(STRAIN)			1.463E-04	-1.215E-04	-1.393E-04	.374E-05
12.00000	0.00000	0.04231	0.000	461.892	495.813	0.000
(STRAIN)			-1.411E-04	1.009E-04	1.335E-04	.319E-10
12.00000	3.00000	0.04215	156.781	418.249	170.168	124.879
(STRAIN)			-6.808E-05	1.829E-04	-5.523E-05	.240E-03
12.00000	7.20000	0.04119	162.102	114.662	56.263	103.340
(STRAIN)			2.557E-04	9.558E-05	-1.015E-04	.698E-03
12.00000	15.50000	0.03932	111.839	72.583	66.626	89.265
(STRAIN)			1.578E-04	2.530E-05	5.197E-06	.603E-03
12.00000	23.00000	0.03895	48.915	-66.816	-84.097	68.180
(STRAIN)			6.782E-05	-3.633E-05	-5.189E-05	.123E-03
12.00000	30.50000	0.03824	13.455	-249.963	-281.804	2.548
(STRAIN)			1.330E-04	-1.040E-04	-1.327E-04	.459E-05
15.00000	0.00000	0.04028	0.000	364.174	388.232	0.000
(STRAIN)			-1.260E-04	8.723E-05	1.103E-04	-.255E-11
15.00000	3.00000	0.03926	41.335	431.899	207.730	59.320
(STRAIN)			-1.601E-04	2.149E-04	-3.285E-07	.114E-03
15.00000	7.20000	0.03923	76.705	108.600	43.391	78.920
(STRAIN)			5.877E-05	1.664E-04	-5.366E-05	.533E-03
15.00000	15.50000	0.03849	70.867	54.540	47.897	86.040
(STRAIN)			8.754E-05	3.243E-05	1.001E-05	.581E-03
15.00000	23.00000	0.03825	35.692	-56.257	-79.014	71.310
(STRAIN)			5.536E-05	-2.740E-05	-4.788E-05	.128E-03
15.00000	30.50000	0.03762	12.572	-213.837	-258.086	2.874
(STRAIN)			1.185E-04	-8.527E-05	-1.251E-04	.517E-05
18.00000	0.00000	0.03873	0.000	305.257	325.899	0.000
(STRAIN)			-1.173E-04	7.807E-05	9.788E-05	.334E-11
18.00000	3.00000	0.03740	8.457	322.511	191.717	27.482

(STRAIN)			-1.452E-04	1.563E-04	3.073E-05	.528E-04
18.00000	7.20000	0.03767	29.712	90.163	35.501	53.267
(STRAIN)			-3.568E-05	1.683E-04	-1.614E-05	.360E-03
18.00000	15.50000	0.03762	39.517	39.130	33.115	76.457
(STRAIN)			3.558E-05	3.427E-05	1.397E-05	.516E-03
18.00000	23.00000	0.03748	24.516	-46.654	-73.457	69.514
(STRAIN)			4.437E-05	-1.968E-05	-4.381E-05	.125E-03
18.00000	30.50000	0.03694	11.659	-178.102	-233.640	3.064
(STRAIN)			1.038E-04	-6.694E-05	-1.169E-04	.552E-05

PERIOD NO. 1 LOAD GROUP NO. 2

RADIAL COORDINATE	VERTICAL COORDINATE	VERTICAL DISPLACEMENT	VERTICAL STRESS (STRAIN)	RADIAL STRESS (STRAIN)	TANGENTIAL STRESS (STRAIN)	SHEAR STRESS (STRAIN)
0.00000	0.00000	0.05943	600.000	1562.113	1562.113	0.000
(STRAIN)			-3.553E-04	3.363E-04	3.363E-04	.000E+00
0.00000	3.00000	0.05818	592.133	219.024	219.024	0.000
(STRAIN)			2.663E-04	-9.192E-05	-9.192E-05	.000E+00
0.00000	7.20000	0.05379	491.794	125.971	125.971	0.000
(STRAIN)			1.009E-03	-2.256E-04	-2.256E-04	.000E+00
0.00000	15.50000	0.04749	271.843	140.875	140.875	0.000
(STRAIN)			4.331E-04	-8.941E-06	-8.941E-06	.000E+00
0.00000	23.00000	0.04661	99.132	-109.072	-109.072	0.000
(STRAIN)			1.170E-04	-7.040E-05	-7.040E-05	.000E+00
0.00000	30.50000	0.04554	17.781	-386.354	-386.354	0.000
(STRAIN)			1.922E-04	-1.716E-04	-1.716E-04	.000E+00
3.00000	0.00000	0.05846	600.000	1441.231	1464.018	0.000
(STRAIN)			-3.337E-04	3.033E-04	3.251E-04	-.468E-12
3.00000	3.00000	0.05763	582.202	188.509	195.749	26.486
(STRAIN)			2.754E-04	-1.025E-04	-9.558E-05	.509E-04
3.00000	7.20000	0.05334	473.562	123.829	120.842	42.684
(STRAIN)			9.698E-04	-2.105E-04	-2.206E-04	.288E-03
3.00000	15.50000	0.04734	260.426	136.432	135.773	39.309
(STRAIN)			4.129E-04	-5.595E-06	-7.818E-06	.265E-03
3.00000	23.00000	0.04649	95.729	-106.590	-108.258	26.821
(STRAIN)			1.140E-04	-6.814E-05	-6.964E-05	.483E-04
3.00000	30.50000	0.04545	17.620	-379.141	-381.958	0.884
(STRAIN)			1.893E-04	-1.677E-04	-1.703E-04	.159E-05
6.00000	0.00000	0.05563	600.000	1095.198	1160.329	0.000
(STRAIN)			-2.696E-04	2.173E-04	2.798E-04	-.127E-10
6.00000	3.00000	0.05589	541.681	115.370	133.005	66.849
(STRAIN)			2.883E-04	-1.210E-04	-1.041E-04	.128E-03
6.00000	7.20000	0.05203	415.250	120.890	106.202	85.714
(STRAIN)			8.394E-04	-1.540E-04	-2.036E-04	.579E-03
6.00000	15.50000	0.04691	228.160	123.822	121.358	72.585
(STRAIN)			3.559E-04	3.727E-06	-4.589E-06	.490E-03
6.00000	23.00000	0.04616	86.172	-99.572	-105.866	50.369
(STRAIN)			1.054E-04	-6.179E-05	-6.745E-05	.907E-04
6.00000	30.50000	0.04517	17.155	-358.501	-369.309	1.701
(STRAIN)			1.813E-04	-1.568E-04	-1.666E-04	.306E-05
9.00000	0.00000	0.05204	600.000	748.427	815.211	0.000
(STRAIN)			-2.027E-04	1.472E-04	2.113E-04	.781E-11
9.00000	3.00000	0.05279	427.028	117.672	80.975	132.978
(STRAIN)			2.264E-04	-7.057E-05	-1.058E-04	.255E-03
9.00000	7.20000	0.04996	312.421	124.903	85.402	118.551
(STRAIN)			5.970E-04	-3.584E-05	-1.692E-04	.800E-03
9.00000	15.50000	0.04623	181.151	105.180	100.331	94.649
(STRAIN)			2.731E-04	1.665E-05	2.872E-07	.639E-03

9.00000	23.00000	0.04564	72.252	-89.195	-102.045	68.084
(STRAIN)			9.279E-05	-5.251E-05	-6.408E-05	.123E-03
9.00000	30.50000	0.04472	16.435	-327.018	-349.730	2.398
(STRAIN)			1.689E-04	-1.402E-04	-1.607E-04	.432E-05
12.00000	0.00000	0.04882	0.000	532.952	572.092	0.000
(STRAIN)			-1.628E-04	1.165E-04	1.541E-04	.368E-10
12.00000	3.00000	0.04864	180.901	482.595	196.347	144.091
(STRAIN)			-7.856E-05	2.111E-04	-6.373E-05	.277E-03
12.00000	7.20000	0.04752	187.041	132.302	64.919	119.239
(STRAIN)			2.950E-04	1.103E-04	-1.171E-04	.805E-03
12.00000	15.50000	0.04537	129.045	83.749	76.877	102.998
(STRAIN)			1.821E-04	2.919E-05	5.997E-06	.695E-03
12.00000	23.00000	0.04495	56.441	-77.095	-97.035	78.669
(STRAIN)			7.826E-05	-4.192E-05	-5.987E-05	.142E-03
12.00000	30.50000	0.04412	15.525	-288.419	-325.158	2.940
(STRAIN)			1.535E-04	-1.200E-04	-1.531E-04	.529E-05
15.00000	0.00000	0.04647	0.000	420.200	447.960	0.000
(STRAIN)			-1.454E-04	1.006E-04	1.273E-04	-.294E-11
15.00000	3.00000	0.04531	47.694	498.345	239.688	68.446
(STRAIN)			-1.847E-04	2.479E-04	-3.791E-07	.131E-03
15.00000	7.20000	0.04527	88.505	125.308	50.066	91.062
(STRAIN)			6.781E-05	1.920E-04	-6.192E-05	.615E-03
15.00000	15.50000	0.04441	81.770	62.931	55.265	99.277
(STRAIN)			1.010E-04	3.742E-05	1.155E-05	.670E-03
15.00000	23.00000	0.04413	41.184	-64.912	-91.170	82.281
(STRAIN)			6.387E-05	-3.161E-05	-5.524E-05	.148E-03
15.00000	30.50000	0.04341	14.506	-246.735	-297.791	3.316
(STRAIN)			1.367E-04	-9.839E-05	-1.443E-04	.597E-05
18.00000	0.00000	0.04468	0.000	352.220	376.037	0.000
(STRAIN)			-1.354E-04	9.008E-05	1.129E-04	.386E-11
18.00000	3.00000	0.04316	9.758	372.128	221.212	31.709
(STRAIN)			-1.675E-04	1.803E-04	3.545E-05	.609E-04
18.00000	7.20000	0.04347	34.283	104.035	40.962	61.462
(STRAIN)			-4.116E-05	1.942E-04	-1.862E-05	.415E-03
18.00000	15.50000	0.04341	45.597	45.150	38.210	88.220
(STRAIN)			4.105E-05	3.954E-05	1.612E-05	.595E-03
18.00000	23.00000	0.04325	28.288	-53.832	-84.758	80.208
(STRAIN)			5.120E-05	-2.271E-05	-5.054E-05	.144E-03
18.00000	30.50000	0.04262	13.452	-205.503	-269.584	3.536
(STRAIN)			1.198E-04	-7.724E-05	-1.349E-04	.636E-05

PERIOD NO. 1 LOAD GROUP NO. 3

RADIAL COORDINATE	VERTICAL COORDINATE	VERTICAL DISPLACEMENT	VERTICAL STRESS (STRAIN)	RADIAL STRESS (STRAIN)	TANGENTIAL STRESS (STRAIN)	SHEAR STRESS (STRAIN)
0.00000	0.00000	0.06934	700.000	1822.465	1822.465	0.000
(STRAIN)			-4.146E-04	3.924E-04	3.924E-04	.000E+00
0.00000	3.00000	0.06788	690.821	255.528	255.528	0.000
(STRAIN)			3.106E-04	-1.072E-04	-1.072E-04	.000E+00
0.00000	7.20000	0.06275	573.759	146.966	146.966	0.000
(STRAIN)			1.177E-03	-2.632E-04	-2.632E-04	.000E+00
0.00000	15.50000	0.05541	317.150	164.354	164.354	0.000
(STRAIN)			5.053E-04	-1.043E-05	-1.043E-05	.000E+00
0.00000	23.00000	0.05438	115.654	-127.250	-127.250	0.000
(STRAIN)			1.365E-04	-8.213E-05	-8.213E-05	.000E+00
0.00000	30.50000	0.05313	20.744	-450.746	-450.746	0.000
(STRAIN)			2.242E-04	-2.002E-04	-2.002E-04	.000E+00
3.00000	0.00000	0.06820	700.000	1681.437	1708.021	0.000

(STRAIN)			-3.894E-04	3.538E-04	3.793E-04	-.546E-12
3.00000	3.00000	0.06723	679.236	219.927	228.374	30.900
(STRAIN)			3.213E-04	-1.196E-04	-1.115E-04	.593E-04
3.00000	7.20000	0.06223	552.489	144.467	140.982	49.798
(STRAIN)			1.131E-03	-2.456E-04	-2.574E-04	.336E-03
3.00000	15.50000	0.05523	303.830	159.170	158.402	45.860
(STRAIN)			4.817E-04	-6.527E-06	-9.121E-06	.310E-03
3.00000	23.00000	0.05424	111.684	-124.355	-126.301	31.291
(STRAIN)			1.329E-04	-7.949E-05	-8.124E-05	.563E-04
3.00000	30.50000	0.05302	20.557	-442.331	-445.618	1.031
(STRAIN)			2.209E-04	-1.957E-04	-1.987E-04	.186E-05
6.00000	0.00000	0.06490	700.000	1277.731	1353.717	0.000
(STRAIN)			-3.145E-04	2.535E-04	3.264E-04	-.148E-10
6.00000	3.00000	0.06521	631.961	134.598	155.173	77.991
(STRAIN)			3.363E-04	-1.412E-04	-1.214E-04	.150E-03
6.00000	7.20000	0.06070	484.458	141.038	123.902	100.000
(STRAIN)			9.793E-04	-1.797E-04	-2.376E-04	.675E-03
6.00000	15.50000	0.05472	266.186	144.459	141.584	84.683
(STRAIN)			4.152E-04	4.348E-06	-5.354E-06	.572E-03
6.00000	23.00000	0.05386	100.534	-116.167	-123.510	58.763
(STRAIN)			1.229E-04	-7.208E-05	-7.869E-05	.106E-03
6.00000	30.50000	0.05269	20.015	-418.251	-430.861	1.985
(STRAIN)			2.115E-04	-1.830E-04	-1.943E-04	.357E-05
9.00000	0.00000	0.06072	700.000	873.165	951.080	0.000
(STRAIN)			-2.365E-04	1.717E-04	2.465E-04	.911E-11
9.00000	3.00000	0.06158	498.200	137.284	94.471	155.141
(STRAIN)			2.642E-04	-8.233E-05	-1.234E-04	.298E-03
9.00000	7.20000	0.05829	364.491	145.720	99.635	138.309
(STRAIN)			6.965E-04	-4.181E-05	-1.973E-04	.934E-03
9.00000	15.50000	0.05394	211.343	122.710	117.053	110.424
(STRAIN)			3.186E-04	1.943E-05	3.351E-07	.745E-03
9.00000	23.00000	0.05324	84.294	-104.061	-119.052	79.431
(STRAIN)			1.083E-04	-6.126E-05	-7.476E-05	.143E-03
9.00000	30.50000	0.05217	19.174	-381.521	-408.019	2.798
(STRAIN)			1.970E-04	-1.636E-04	-1.875E-04	.504E-05
12.00000	0.00000	0.05696	0.000	621.777	667.441	0.000
(STRAIN)			-1.899E-04	1.359E-04	1.797E-04	.430E-10
12.00000	3.00000	0.05674	211.051	563.028	229.072	168.106
(STRAIN)			-9.165E-05	2.462E-04	-7.435E-05	.323E-03
12.00000	7.20000	0.05544	218.214	154.352	75.738	139.112
(STRAIN)			3.442E-04	1.287E-04	-1.366E-04	.939E-03
12.00000	15.50000	0.05294	150.552	97.708	89.690	120.164
(STRAIN)			2.124E-04	3.406E-05	6.996E-06	.811E-03
12.00000	23.00000	0.05244	65.848	-89.944	-113.207	91.781
(STRAIN)			9.130E-05	-4.891E-05	-6.985E-05	.165E-03
12.00000	30.50000	0.05148	18.112	-336.489	-379.351	3.430
(STRAIN)			1.791E-04	-1.400E-04	-1.786E-04	.617E-05
15.00000	0.00000	0.05422	0.000	490.234	522.620	0.000
(STRAIN)			-1.696E-04	1.174E-04	1.485E-04	-.343E-11
15.00000	3.00000	0.05286	55.643	581.403	279.637	79.854
(STRAIN)			-2.155E-04	2.893E-04	-4.422E-07	.153E-03
15.00000	7.20000	0.05281	103.256	146.193	58.411	106.239
(STRAIN)			7.911E-05	2.240E-04	-7.224E-05	.717E-03
15.00000	15.50000	0.05181	95.399	73.419	64.476	115.823
(STRAIN)			1.178E-04	4.366E-05	1.348E-05	.782E-03
15.00000	23.00000	0.05149	48.047	-75.730	-106.365	95.994
(STRAIN)			7.452E-05	-3.688E-05	-6.445E-05	.173E-03
15.00000	30.50000	0.05065	16.924	-287.858	-347.423	3.868
(STRAIN)			1.595E-04	-1.148E-04	-1.684E-04	.696E-05

18.00000	0.00000	0.05213	0.000	410.923	438.710	0.000
(STRAIN)			-1.579E-04	1.051E-04	1.318E-04	.450E-11
18.00000	3.00000	0.05035	11.385	434.150	258.080	36.994
(STRAIN)			-1.955E-04	2.104E-04	4.136E-05	.710E-04
18.00000	7.20000	0.05071	39.997	121.374	47.789	71.706
(STRAIN)			-4.802E-05	2.266E-04	-2.173E-05	.484E-03
18.00000	15.50000	0.05064	53.197	52.675	44.578	102.923
(STRAIN)			4.790E-05	4.613E-05	1.881E-05	.695E-03
18.00000	23.00000	0.05046	33.002	-62.804	-98.884	93.576
(STRAIN)			5.973E-05	-2.650E-05	-5.897E-05	.168E-03
18.00000	30.50000	0.04973	15.694	-239.753	-314.515	4.125
(STRAIN)			1.398E-04	-9.011E-05	-1.574E-04	.742E-05

PERIOD NO. 1 LOAD GROUP NO. 4

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.04108	0.000	94.392	7.725	62.702
	(STRAIN)		-4.093E-05	4.227E-05	-4.093E-05	1.185E-05
1	3.00000	0.03783	0.156	55.810	-10.382	2.588
	(STRAIN)		-1.394E-05	3.949E-05	-2.405E-05	-2.172E-05
1	7.20000	0.03786	0.642	11.016	-7.334	5.863
	(STRAIN)		-6.184E-06	2.883E-05	-3.310E-05	-1.548E-05
1	15.50000	0.03788	1.844	8.836	-7.047	4.033
	(STRAIN)		1.128E-06	2.473E-05	-2.888E-05	-5.277E-06
1	23.00000	0.03788	2.978	18.080	-12.795	-0.361
	(STRAIN)		1.531E-06	1.512E-05	-1.266E-05	-1.266E-05
1	30.50000	0.03786	3.550	34.005	-38.163	3.403
	(STRAIN)		3.371E-06	3.078E-05	-3.417E-05	-3.417E-05
2	0.00000	0.04610	0.000	131.422	11.525	92.136
	(STRAIN)		-5.789E-05	5.721E-05	-5.789E-05	1.949E-05
2	3.00000	0.04337	0.294	84.428	-3.676	18.858
	(STRAIN)		-2.894E-05	5.183E-05	-3.275E-05	-1.493E-05
2	7.20000	0.04344	0.926	16.012	-9.659	12.213
	(STRAIN)		-1.312E-05	3.780E-05	-4.884E-05	-1.075E-05
2	15.50000	0.04349	2.630	14.877	-11.791	5.725
	(STRAIN)		1.167E-06	4.250E-05	-4.750E-05	-6.172E-06
2	23.00000	0.04348	4.286	20.038	-21.497	-4.548
	(STRAIN)		5.259E-06	1.944E-05	-1.795E-05	-1.795E-05
2	30.50000	0.04342	5.124	27.392	-61.112	4.805
	(STRAIN)		1.136E-05	3.140E-05	-4.825E-05	-4.825E-05
3	0.00000	0.05203	0.000	187.932	19.223	140.883
	(STRAIN)		-8.364E-05	7.832E-05	-8.364E-05	3.316E-05
3	3.00000	0.04980	0.216	127.438	-3.132	62.058
	(STRAIN)		-5.446E-05	6.767E-05	-5.767E-05	1.695E-06
3	7.20000	0.04993	0.998	23.533	-13.763	23.203
	(STRAIN)		-2.548E-05	5.057E-05	-7.530E-05	7.526E-07
3	15.50000	0.05004	3.056	24.520	-20.121	8.237
	(STRAIN)		-7.444E-07	7.170E-05	-7.896E-05	-6.521E-06
3	23.00000	0.05001	5.769	24.891	-35.583	-16.166
	(STRAIN)		1.146E-05	2.867E-05	-2.576E-05	-2.576E-05
3	30.50000	0.04987	7.384	12.204	-99.040	5.012
	(STRAIN)		2.574E-05	3.008E-05	-7.004E-05	-7.004E-05
4	0.00000	0.05889	0.000	269.002	36.291	224.810
	(STRAIN)		-1.207E-04	1.027E-04	-1.207E-04	6.032E-05
4	3.00000	0.05705	-0.717	187.176	-3.784	137.981
	(STRAIN)		-9.496E-05	8.542E-05	-9.790E-05	3.525E-05

4	7.20000	0.05730	-1.757	42.877	-19.219	32.753
	(STRAIN)		-5.529E-05	9.535E-05	-1.142E-04	3.642E-05
4	15.50000	0.05761	0.372	42.644	-37.070	11.888
	(STRAIN)		-1.402E-05	1.286E-04	-1.404E-04	2.277E-06
4	23.00000	0.05759	6.732	39.945	-59.829	-46.502
	(STRAIN)		2.155E-05	5.144E-05	-3.836E-05	-3.836E-05
4	30.50000	0.05729	10.874	11.267	-168.977	-37.974
	(STRAIN)		5.545E-05	5.580E-05	-1.064E-04	-1.064E-04
5	0.00000	0.06817	0.000	460.888	121.301	412.319
	(STRAIN)		-1.753E-04	1.507E-04	-1.753E-04	1.041E-04
5	3.00000	0.06600	11.670	399.088	7.216	283.347
	(STRAIN)		-1.911E-04	1.808E-04	-1.954E-04	6.972E-05
5	7.20000	0.06634	35.896	146.883	-8.701	52.294
	(STRAIN)		-4.552E-05	3.291E-04	-1.960E-04	9.826E-06
5	15.50000	0.06629	45.776	138.955	-50.526	40.842
	(STRAIN)		4.138E-05	3.559E-04	-2.836E-04	2.473E-05
5	23.00000	0.06612	29.938	83.694	-105.588	-100.381
	(STRAIN)		5.548E-05	1.039E-04	-6.650E-05	-6.181E-05
5	30.50000	0.06545	16.786	16.913	-309.250	-189.814
	(STRAIN)		1.276E-04	1.277E-04	-1.658E-04	-1.658E-04
6	0.00000	0.08464	520.000	1535.928	757.754	1515.457
	(STRAIN)		-3.899E-04	3.571E-04	-3.899E-04	3.375E-04
6	3.00000	0.08281	512.293	513.262	302.179	318.173
	(STRAIN)		1.593E-04	1.602E-04	-4.243E-05	-4.150E-05
6	7.20000	0.07920	423.839	425.179	130.147	131.051
	(STRAIN)		8.299E-04	8.344E-04	-1.613E-04	-1.583E-04
6	15.50000	0.07401	234.203	242.003	118.958	130.143
	(STRAIN)		3.607E-04	3.870E-04	-2.823E-05	-1.907E-06
6	23.00000	0.07323	89.758	95.172	-138.549	-116.495
	(STRAIN)		1.181E-04	1.230E-04	-8.739E-05	-8.739E-05
6	30.50000	0.07207	22.828	22.847	-459.930	-381.405
	(STRAIN)		2.115E-04	2.115E-04	-2.230E-04	-2.230E-04
7	0.00000	0.07792	0.000	668.804	214.380	626.886
	(STRAIN)		-2.371E-04	1.991E-04	-2.371E-04	1.589E-04
7	3.00000	0.07532	23.042	678.609	23.042	389.738
	(STRAIN)		-2.980E-04	3.313E-04	-2.980E-04	5.401E-05
7	7.20000	0.07581	70.673	187.212	70.674	73.100
	(STRAIN)		-5.109E-05	3.422E-04	-5.109E-05	-4.290E-05
7	15.50000	0.07553	87.954	87.955	70.522	82.928
	(STRAIN)		8.562E-05	8.562E-05	2.678E-05	2.678E-05
7	23.00000	0.07523	52.393	52.393	-148.807	-96.321
	(STRAIN)		9.213E-05	9.213E-05	-8.895E-05	-8.895E-05
7	30.50000	0.07412	23.621	23.621	-475.401	-367.844
	(STRAIN)		2.125E-04	2.125E-04	-2.366E-04	-2.366E-04
8	0.00000	0.08464	520.000	1535.928	757.754	1515.457
	(STRAIN)		-3.899E-04	3.571E-04	-3.899E-04	3.375E-04
8	3.00000	0.08281	512.293	513.262	302.179	318.173
	(STRAIN)		1.593E-04	1.602E-04	-4.243E-05	-4.150E-05
8	7.20000	0.07920	423.839	425.179	130.147	131.051
	(STRAIN)		8.299E-04	8.344E-04	-1.613E-04	-1.583E-04
8	15.50000	0.07401	234.203	242.003	118.958	130.143
	(STRAIN)		3.607E-04	3.870E-04	-2.823E-05	-1.907E-06
8	23.00000	0.07323	89.758	95.172	-138.549	-116.495
	(STRAIN)		1.181E-04	1.230E-04	-8.739E-05	-8.739E-05
8	30.50000	0.07207	22.828	22.847	-459.930	-381.405
	(STRAIN)		2.115E-04	2.115E-04	-2.230E-04	-2.230E-04
9	0.00000	0.06817	0.000	460.888	121.301	412.319
	(STRAIN)		-1.753E-04	1.507E-04	-1.753E-04	1.041E-04
9	3.00000	0.06600	11.670	399.088	7.216	283.347

	(STRAIN)		-1.911E-04	1.808E-04	-1.954E-04	6.972E-05
9	7.20000	0.06634	35.896	146.883	-8.701	52.294
	(STRAIN)		-4.552E-05	3.291E-04	-1.960E-04	9.826E-06
9	15.50000	0.06629	45.776	138.955	-50.526	40.842
	(STRAIN)		4.138E-05	3.559E-04	-2.836E-04	2.473E-05
9	23.00000	0.06612	29.938	83.694	-105.588	-100.381
	(STRAIN)		5.548E-05	1.039E-04	-6.650E-05	-6.181E-05
9	30.50000	0.06545	16.786	16.913	-309.250	-189.814
	(STRAIN)		1.276E-04	1.277E-04	-1.658E-04	-1.658E-04
10	0.00000	0.05889	0.000	269.002	36.291	224.810
	(STRAIN)		-1.207E-04	1.027E-04	-1.207E-04	6.032E-05
10	3.00000	0.05705	-0.717	187.176	-3.784	137.981
	(STRAIN)		-9.496E-05	8.542E-05	-9.790E-05	3.525E-05
10	7.20000	0.05730	-1.757	42.877	-19.219	32.753
	(STRAIN)		-5.529E-05	9.535E-05	-1.142E-04	3.642E-05
10	15.50000	0.05761	0.372	42.644	-37.070	11.888
	(STRAIN)		-1.402E-05	1.286E-04	-1.404E-04	2.277E-06
10	23.00000	0.05759	6.732	39.945	-59.829	-46.502
	(STRAIN)		2.155E-05	5.144E-05	-3.836E-05	-3.836E-05
10	30.50000	0.05729	10.874	11.267	-168.977	-37.974
	(STRAIN)		5.545E-05	5.580E-05	-1.064E-04	-1.064E-04
11	0.00000	0.05203	0.000	187.932	19.223	140.883
	(STRAIN)		-8.364E-05	7.832E-05	-8.364E-05	3.316E-05
11	3.00000	0.04980	0.216	127.438	-3.132	62.058
	(STRAIN)		-5.446E-05	6.767E-05	-5.767E-05	1.695E-06
11	7.20000	0.04993	0.998	23.533	-13.763	23.203
	(STRAIN)		-2.548E-05	5.057E-05	-7.530E-05	7.526E-07
11	15.50000	0.05004	3.056	24.520	-20.121	8.237
	(STRAIN)		-7.444E-07	7.170E-05	-7.896E-05	-6.521E-06
11	23.00000	0.05001	5.769	24.891	-35.583	-16.166
	(STRAIN)		1.146E-05	2.867E-05	-2.576E-05	-2.576E-05
11	30.50000	0.04987	7.384	12.204	-99.040	5.012
	(STRAIN)		2.574E-05	3.008E-05	-7.004E-05	-7.004E-05
12	0.00000	0.04610	0.000	131.422	11.525	92.136
	(STRAIN)		-5.789E-05	5.721E-05	-5.789E-05	1.949E-05
12	3.00000	0.04337	0.294	84.428	-3.676	18.858
	(STRAIN)		-2.894E-05	5.183E-05	-3.275E-05	-1.493E-05
12	7.20000	0.04344	0.926	16.012	-9.659	12.213
	(STRAIN)		-1.312E-05	3.780E-05	-4.884E-05	-1.075E-05
12	15.50000	0.04349	2.630	14.877	-11.791	5.725
	(STRAIN)		1.167E-06	4.250E-05	-4.750E-05	-6.172E-06
12	23.00000	0.04348	4.286	20.038	-21.497	-4.548
	(STRAIN)		5.259E-06	1.944E-05	-1.795E-05	-1.795E-05
12	30.50000	0.04342	5.124	27.392	-61.112	4.805
	(STRAIN)		1.136E-05	3.140E-05	-4.825E-05	-4.825E-05

PERIOD NO. 1 LOAD GROUP NO. 5

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.04740	0.000	108.914	8.913	72.348
	(STRAIN)		-4.723E-05	4.877E-05	-4.723E-05	1.367E-05
1	3.00000	0.04365	0.180	64.397	-11.979	2.986
	(STRAIN)		-1.608E-05	4.557E-05	-2.775E-05	-2.506E-05
1	7.20000	0.04368	0.741	12.711	-8.462	6.765
	(STRAIN)		-7.136E-06	3.326E-05	-3.820E-05	-1.787E-05
1	15.50000	0.04371	2.127	10.196	-8.131	4.653

	(STRAIN)		1.301E-06	2.853E-05	-3.332E-05	-6.089E-06
1	23.00000	0.04371	3.436	20.861	-14.763	-0.417
	(STRAIN)		1.767E-06	1.745E-05	-1.461E-05	-1.461E-05
1	30.50000	0.04368	4.096	39.236	-44.034	3.927
	(STRAIN)		3.890E-06	3.552E-05	-3.943E-05	-3.943E-05
2	0.00000	0.05319	0.000	151.641	13.299	106.310
	(STRAIN)		-6.680E-05	6.601E-05	-6.680E-05	2.249E-05
2	3.00000	0.05004	0.339	97.417	-4.241	21.759
	(STRAIN)		-3.339E-05	5.981E-05	-3.779E-05	-1.722E-05
2	7.20000	0.05012	1.069	18.475	-11.145	14.091
	(STRAIN)		-1.514E-05	4.361E-05	-5.636E-05	-1.241E-05
2	15.50000	0.05018	3.035	17.166	-13.605	6.606
	(STRAIN)		1.347E-06	4.904E-05	-5.481E-05	-7.121E-06
2	23.00000	0.05017	4.946	23.120	-24.805	-5.248
	(STRAIN)		6.069E-06	2.243E-05	-2.071E-05	-2.071E-05
2	30.50000	0.05009	5.912	31.606	-70.513	5.544
	(STRAIN)		1.311E-05	3.623E-05	-5.568E-05	-5.568E-05
3	0.00000	0.06004	0.000	216.845	22.181	162.557
	(STRAIN)		-9.650E-05	9.037E-05	-9.650E-05	3.826E-05
3	3.00000	0.05746	0.249	147.043	-3.614	71.605
	(STRAIN)		-6.284E-05	7.808E-05	-6.655E-05	1.956E-06
3	7.20000	0.05761	1.151	27.153	-15.881	26.773
	(STRAIN)		-2.940E-05	5.835E-05	-8.689E-05	8.684E-07
3	15.50000	0.05774	3.526	28.293	-23.216	9.504
	(STRAIN)		-8.590E-07	8.273E-05	-9.111E-05	-7.524E-06
3	23.00000	0.05770	6.656	28.720	-41.057	-18.653
	(STRAIN)		1.322E-05	3.308E-05	-2.972E-05	-2.972E-05
3	30.50000	0.05754	8.520	14.081	-114.277	5.783
	(STRAIN)		2.970E-05	3.470E-05	-8.082E-05	-8.082E-05
4	0.00000	0.06795	0.000	310.386	41.875	259.396
	(STRAIN)		-1.392E-04	1.186E-04	-1.392E-04	6.960E-05
4	3.00000	0.06582	-0.828	215.972	-4.366	159.209
	(STRAIN)		-1.096E-04	9.856E-05	-1.130E-04	4.067E-05
4	7.20000	0.06612	-2.027	49.474	-22.176	37.792
	(STRAIN)		-6.380E-05	1.100E-04	-1.318E-04	4.202E-05
4	15.50000	0.06647	0.429	49.204	-42.773	13.717
	(STRAIN)		-1.618E-05	1.484E-04	-1.620E-04	2.628E-06
4	23.00000	0.06645	7.768	46.090	-69.034	-53.656
	(STRAIN)		2.486E-05	5.935E-05	-4.426E-05	-4.426E-05
4	30.50000	0.06611	12.547	13.000	-194.973	-43.816
	(STRAIN)		6.398E-05	6.438E-05	-1.228E-04	-1.228E-04
5	0.00000	0.07866	0.000	531.792	139.963	475.755
	(STRAIN)		-2.022E-04	1.739E-04	-2.022E-04	1.201E-04
5	3.00000	0.07615	13.465	460.486	8.326	326.938
	(STRAIN)		-2.205E-04	2.086E-04	-2.254E-04	8.044E-05
5	7.20000	0.07655	41.418	169.481	-10.039	60.339
	(STRAIN)		-5.252E-05	3.797E-04	-2.262E-04	1.134E-05
5	15.50000	0.07649	52.819	160.333	-58.299	47.125
	(STRAIN)		4.775E-05	4.106E-04	-3.273E-04	2.853E-05
5	23.00000	0.07629	34.544	96.570	-121.833	-115.824
	(STRAIN)		6.401E-05	1.198E-04	-7.673E-05	-7.132E-05
5	30.50000	0.07552	19.369	19.515	-356.827	-219.017
	(STRAIN)		1.472E-04	1.474E-04	-1.913E-04	-1.913E-04
6	0.00000	0.09766	600.000	1772.174	874.331	1748.655
	(STRAIN)		-4.499E-04	4.120E-04	-4.499E-04	3.894E-04
6	3.00000	0.09555	591.107	592.225	348.669	367.121
	(STRAIN)		1.838E-04	1.849E-04	-4.896E-05	-4.789E-05
6	7.20000	0.09139	489.045	490.591	150.168	151.214
	(STRAIN)		9.576E-04	9.628E-04	-1.862E-04	-1.826E-04

6	15.50000	0.08540	270.235	279.235	137.260	150.164
	(STRAIN)		4.162E-04	4.466E-04	-3.258E-05	-2.201E-06
6	23.00000	0.08450	103.567	109.814	-159.864	-134.418
	(STRAIN)		1.363E-04	1.419E-04	-1.008E-04	-1.008E-04
6	30.50000	0.08316	26.340	26.362	-530.689	-440.083
	(STRAIN)		2.441E-04	2.441E-04	-2.573E-04	-2.573E-04
7	0.00000	0.08991	0.000	771.693	247.362	723.334
	(STRAIN)		-2.736E-04	2.297E-04	-2.736E-04	1.833E-04
7	3.00000	0.08691	26.586	783.010	26.586	449.698
	(STRAIN)		-3.439E-04	3.823E-04	-3.439E-04	6.232E-05
7	7.20000	0.08747	81.546	216.013	81.546	84.347
	(STRAIN)		-5.895E-05	3.949E-04	-5.895E-05	-4.950E-05
7	15.50000	0.08715	101.485	101.485	81.371	95.687
	(STRAIN)		9.879E-05	9.879E-05	3.090E-05	3.090E-05
7	23.00000	0.08680	60.454	60.454	-171.700	-111.140
	(STRAIN)		1.063E-04	1.063E-04	-1.026E-04	-1.026E-04
7	30.50000	0.08552	27.255	27.255	-548.539	-424.435
	(STRAIN)		2.452E-04	2.452E-04	-2.730E-04	-2.730E-04
8	0.00000	0.09766	600.000	1772.174	874.331	1748.655
	(STRAIN)		-4.499E-04	4.120E-04	-4.499E-04	3.894E-04
8	3.00000	0.09555	591.107	592.225	348.669	367.121
	(STRAIN)		1.838E-04	1.849E-04	-4.896E-05	-4.789E-05
8	7.20000	0.09139	489.045	490.591	150.168	151.214
	(STRAIN)		9.576E-04	9.628E-04	-1.862E-04	-1.826E-04
8	15.50000	0.08540	270.235	279.235	137.260	150.164
	(STRAIN)		4.162E-04	4.466E-04	-3.258E-05	-2.201E-06
8	23.00000	0.08450	103.567	109.814	-159.864	-134.418
	(STRAIN)		1.363E-04	1.419E-04	-1.008E-04	-1.008E-04
8	30.50000	0.08316	26.340	26.362	-530.689	-440.083
	(STRAIN)		2.441E-04	2.441E-04	-2.573E-04	-2.573E-04
9	0.00000	0.07866	0.000	531.792	139.963	475.755
	(STRAIN)		-2.022E-04	1.739E-04	-2.022E-04	1.201E-04
9	3.00000	0.07615	13.465	460.486	8.326	326.938
	(STRAIN)		-2.205E-04	2.086E-04	-2.254E-04	8.044E-05
9	7.20000	0.07655	41.418	169.481	-10.039	60.339
	(STRAIN)		-5.252E-05	3.797E-04	-2.262E-04	1.134E-05
9	15.50000	0.07649	52.819	160.333	-58.299	47.125
	(STRAIN)		4.775E-05	4.106E-04	-3.273E-04	2.853E-05
9	23.00000	0.07629	34.544	96.570	-121.833	-115.824
	(STRAIN)		6.401E-05	1.198E-04	-7.673E-05	-7.132E-05
9	30.50000	0.07552	19.369	19.515	-356.827	-219.017
	(STRAIN)		1.472E-04	1.474E-04	-1.913E-04	-1.913E-04
10	0.00000	0.06795	0.000	310.386	41.875	259.396
	(STRAIN)		-1.392E-04	1.186E-04	-1.392E-04	6.960E-05
10	3.00000	0.06582	-0.828	215.972	-4.366	159.209
	(STRAIN)		-1.096E-04	9.856E-05	-1.130E-04	4.067E-05
10	7.20000	0.06612	-2.027	49.474	-22.176	37.792
	(STRAIN)		-6.380E-05	1.100E-04	-1.318E-04	4.202E-05
10	15.50000	0.06647	0.429	49.204	-42.773	13.717
	(STRAIN)		-1.618E-05	1.484E-04	-1.620E-04	2.628E-06
10	23.00000	0.06645	7.768	46.090	-69.034	-53.656
	(STRAIN)		2.486E-05	5.935E-05	-4.426E-05	-4.426E-05
10	30.50000	0.06611	12.547	13.000	-194.973	-43.816
	(STRAIN)		6.398E-05	6.438E-05	-1.228E-04	-1.228E-04
11	0.00000	0.06004	0.000	216.845	22.181	162.557
	(STRAIN)		-9.650E-05	9.037E-05	-9.650E-05	3.826E-05
11	3.00000	0.05746	0.249	147.043	-3.614	71.605
	(STRAIN)		-6.284E-05	7.808E-05	-6.655E-05	1.956E-06
11	7.20000	0.05761	1.151	27.153	-15.881	26.773

	(STRAIN)		-2.940E-05	5.835E-05	-8.689E-05	8.684E-07
11	15.50000	0.05774	3.526	28.293	-23.216	9.504
	(STRAIN)		-8.590E-07	8.273E-05	-9.111E-05	-7.524E-06
11	23.00000	0.05770	6.656	28.720	-41.057	-18.653
	(STRAIN)		1.322E-05	3.308E-05	-2.972E-05	-2.972E-05
11	30.50000	0.05754	8.520	14.081	-114.277	5.783
	(STRAIN)		2.970E-05	3.470E-05	-8.082E-05	-8.082E-05
12	0.00000	0.05319	0.000	151.641	13.299	106.310
	(STRAIN)		-6.680E-05	6.601E-05	-6.680E-05	2.249E-05
12	3.00000	0.05004	0.339	97.417	-4.241	21.759
	(STRAIN)		-3.339E-05	5.981E-05	-3.779E-05	-1.722E-05
12	7.20000	0.05012	1.069	18.475	-11.145	14.091
	(STRAIN)		-1.514E-05	4.361E-05	-5.636E-05	-1.241E-05
12	15.50000	0.05018	3.035	17.166	-13.605	6.606
	(STRAIN)		1.347E-06	4.904E-05	-5.481E-05	-7.121E-06
12	23.00000	0.05017	4.946	23.120	-24.805	-5.248
	(STRAIN)		6.069E-06	2.243E-05	-2.071E-05	-2.071E-05
12	30.50000	0.05009	5.912	31.606	-70.513	5.544
	(STRAIN)		1.311E-05	3.623E-05	-5.568E-05	-5.568E-05

PERIOD NO. 1 LOAD GROUP NO. 6

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.05530	0.000	127.067	10.398	84.406
	(STRAIN)		-5.510E-05	5.690E-05	-5.510E-05	1.595E-05
1	3.00000	0.05092	0.210	75.129	-13.975	3.484
	(STRAIN)		-1.876E-05	5.316E-05	-3.238E-05	-2.923E-05
1	7.20000	0.05097	0.865	14.829	-9.873	7.893
	(STRAIN)		-8.325E-06	3.881E-05	-4.456E-05	-2.084E-05
1	15.50000	0.05099	2.482	11.895	-9.486	5.429
	(STRAIN)		1.518E-06	3.329E-05	-3.887E-05	-7.104E-06
1	23.00000	0.05099	4.008	24.338	-17.224	-0.486
	(STRAIN)		2.061E-06	2.036E-05	-1.705E-05	-1.705E-05
1	30.50000	0.05097	4.779	45.776	-51.373	4.582
	(STRAIN)		4.538E-06	4.144E-05	-4.600E-05	-4.600E-05
2	0.00000	0.06206	0.000	176.915	15.515	124.029
	(STRAIN)		-7.793E-05	7.701E-05	-7.793E-05	2.624E-05
2	3.00000	0.05839	0.396	113.653	-4.948	25.385
	(STRAIN)		-3.895E-05	6.977E-05	-4.408E-05	-2.009E-05
2	7.20000	0.05848	1.247	21.554	-13.003	16.440
	(STRAIN)		-1.766E-05	5.088E-05	-6.575E-05	-1.447E-05
2	15.50000	0.05855	3.541	20.026	-15.872	7.707
	(STRAIN)		1.571E-06	5.721E-05	-6.395E-05	-8.308E-06
2	23.00000	0.05853	5.770	26.974	-28.939	-6.122
	(STRAIN)		7.080E-06	2.616E-05	-2.416E-05	-2.416E-05
2	30.50000	0.05844	6.897	36.874	-82.266	6.468
	(STRAIN)		1.529E-05	4.227E-05	-6.496E-05	-6.496E-05
3	0.00000	0.07005	0.000	252.986	25.877	189.650
	(STRAIN)		-1.126E-04	1.054E-04	-1.126E-04	4.463E-05
3	3.00000	0.06703	0.290	171.551	-4.216	83.539
	(STRAIN)		-7.331E-05	9.110E-05	-7.764E-05	2.282E-06
3	7.20000	0.06721	1.343	31.678	-18.528	31.235
	(STRAIN)		-3.430E-05	6.808E-05	-1.014E-04	1.013E-06
3	15.50000	0.06736	4.113	33.008	-27.086	11.088
	(STRAIN)		-1.002E-06	9.652E-05	-1.063E-04	-8.778E-06
3	23.00000	0.06732	7.766	33.507	-47.900	-21.762

	(STRAIN)		1.543E-05	3.859E-05	-3.467E-05	-3.467E-05
3	30.50000	0.06713	9.941	16.428	-133.323	6.747
	(STRAIN)		3.465E-05	4.049E-05	-9.429E-05	-9.429E-05
4	0.00000	0.07928	0.000	362.117	48.854	302.630
	(STRAIN)		-1.624E-04	1.383E-04	-1.624E-04	8.120E-05
4	3.00000	0.07679	-0.966	251.968	-5.094	185.744
	(STRAIN)		-1.278E-04	1.150E-04	-1.318E-04	4.745E-05
4	7.20000	0.07714	-2.365	57.719	-25.872	44.090
	(STRAIN)		-7.443E-05	1.284E-04	-1.538E-04	4.902E-05
4	15.50000	0.07755	0.500	57.405	-49.902	16.003
	(STRAIN)		-1.888E-05	1.732E-04	-1.890E-04	3.066E-06
4	23.00000	0.07752	9.063	53.772	-80.539	-62.599
	(STRAIN)		2.901E-05	6.925E-05	-5.163E-05	-5.163E-05
4	30.50000	0.07713	14.638	15.167	-227.469	-51.119
	(STRAIN)		7.464E-05	7.512E-05	-1.433E-04	-1.433E-04
5	0.00000	0.09177	0.000	620.425	163.290	555.046
	(STRAIN)		-2.359E-04	2.029E-04	-2.359E-04	1.401E-04
5	3.00000	0.08884	15.710	537.234	9.713	381.428
	(STRAIN)		-2.572E-04	2.434E-04	-2.630E-04	9.385E-05
5	7.20000	0.08931	48.322	197.727	-11.712	70.396
	(STRAIN)		-6.127E-05	4.430E-04	-2.639E-04	1.323E-05
5	15.50000	0.08924	61.622	187.055	-68.016	54.979
	(STRAIN)		5.571E-05	4.790E-04	-3.818E-04	3.329E-05
5	23.00000	0.08901	40.301	112.665	-142.138	-135.128
	(STRAIN)		7.468E-05	1.398E-04	-8.952E-05	-8.321E-05
5	30.50000	0.08810	22.597	22.768	-416.298	-255.519
	(STRAIN)		1.718E-04	1.719E-04	-2.232E-04	-2.232E-04
6	0.00000	0.11394	700.000	2067.554	1020.054	2040.079
	(STRAIN)		-5.249E-04	4.807E-04	-5.249E-04	4.544E-04
6	3.00000	0.11147	689.625	690.929	406.780	428.309
	(STRAIN)		2.144E-04	2.157E-04	-5.712E-05	-5.587E-05
6	7.20000	0.10662	570.553	572.357	175.202	176.411
	(STRAIN)		1.117E-03	1.123E-03	-2.172E-04	-2.131E-04
6	15.50000	0.09963	315.274	325.774	160.137	175.192
	(STRAIN)		4.856E-04	5.210E-04	-3.800E-05	-2.568E-06
6	23.00000	0.09858	120.828	128.116	-186.508	-156.821
	(STRAIN)		1.590E-04	1.655E-04	-1.176E-04	-1.176E-04
6	30.50000	0.09702	30.730	30.755	-619.136	-513.430
	(STRAIN)		2.847E-04	2.848E-04	-3.001E-04	-3.001E-04
7	0.00000	0.10489	0.000	900.309	288.589	843.889
	(STRAIN)		-3.192E-04	2.680E-04	-3.192E-04	2.138E-04
7	3.00000	0.10140	31.018	913.512	31.017	524.647
	(STRAIN)		-4.012E-04	4.460E-04	-4.012E-04	7.270E-05
7	7.20000	0.10205	95.137	252.016	95.137	98.405
	(STRAIN)		-6.877E-05	4.607E-04	-6.878E-05	-5.775E-05
7	15.50000	0.10168	118.400	118.401	94.933	111.633
	(STRAIN)		1.153E-04	1.153E-04	3.605E-05	3.605E-05
7	23.00000	0.10127	70.530	70.530	-200.317	-129.663
	(STRAIN)		1.240E-04	1.240E-04	-1.197E-04	-1.197E-04
7	30.50000	0.09977	31.798	31.798	-639.962	-495.175
	(STRAIN)		2.861E-04	2.861E-04	-3.185E-04	-3.185E-04
8	0.00000	0.11394	700.000	2067.554	1020.054	2040.079
	(STRAIN)		-5.249E-04	4.807E-04	-5.249E-04	4.544E-04
8	3.00000	0.11147	689.625	690.929	406.780	428.309
	(STRAIN)		2.144E-04	2.157E-04	-5.712E-05	-5.587E-05
8	7.20000	0.10662	570.553	572.357	175.202	176.411
	(STRAIN)		1.117E-03	1.123E-03	-2.172E-04	-2.131E-04
8	15.50000	0.09963	315.274	325.774	160.137	175.192
	(STRAIN)		4.856E-04	5.210E-04	-3.800E-05	-2.568E-06

8	23.00000	0.09858	120.828	128.116	-186.508	-156.821
	(STRAIN)		1.590E-04	1.655E-04	-1.176E-04	-1.176E-04
8	30.50000	0.09702	30.730	30.755	-619.136	-513.430
	(STRAIN)		2.847E-04	2.848E-04	-3.001E-04	-3.001E-04
9	0.00000	0.09177	0.000	620.425	163.290	555.046
	(STRAIN)		-2.359E-04	2.029E-04	-2.359E-04	1.401E-04
9	3.00000	0.08884	15.710	537.234	9.713	381.428
	(STRAIN)		-2.572E-04	2.434E-04	-2.630E-04	9.385E-05
9	7.20000	0.08931	48.322	197.727	-11.712	70.396
	(STRAIN)		-6.127E-05	4.430E-04	-2.639E-04	1.323E-05
9	15.50000	0.08924	61.622	187.055	-68.016	54.979
	(STRAIN)		5.571E-05	4.790E-04	-3.818E-04	3.329E-05
9	23.00000	0.08901	40.301	112.665	-142.138	-135.128
	(STRAIN)		7.468E-05	1.398E-04	-8.952E-05	-8.321E-05
9	30.50000	0.08810	22.597	22.768	-416.298	-255.519
	(STRAIN)		1.718E-04	1.719E-04	-2.232E-04	-2.232E-04
10	0.00000	0.07928	0.000	362.117	48.854	302.630
	(STRAIN)		-1.624E-04	1.383E-04	-1.624E-04	8.120E-05
10	3.00000	0.07679	-0.966	251.968	-5.094	185.744
	(STRAIN)		-1.278E-04	1.150E-04	-1.318E-04	4.745E-05
10	7.20000	0.07714	-2.365	57.719	-25.872	44.090
	(STRAIN)		-7.443E-05	1.284E-04	-1.538E-04	4.902E-05
10	15.50000	0.07755	0.500	57.405	-49.902	16.003
	(STRAIN)		-1.888E-05	1.732E-04	-1.890E-04	3.066E-06
10	23.00000	0.07752	9.063	53.772	-80.539	-62.599
	(STRAIN)		2.901E-05	6.925E-05	-5.163E-05	-5.163E-05
10	30.50000	0.07713	14.638	15.167	-227.469	-51.119
	(STRAIN)		7.464E-05	7.512E-05	-1.433E-04	-1.433E-04
11	0.00000	0.07005	0.000	252.986	25.877	189.650
	(STRAIN)		-1.126E-04	1.054E-04	-1.126E-04	4.463E-05
11	3.00000	0.06703	0.290	171.551	-4.216	83.539
	(STRAIN)		-7.331E-05	9.110E-05	-7.764E-05	2.282E-06
11	7.20000	0.06721	1.343	31.678	-18.528	31.235
	(STRAIN)		-3.430E-05	6.808E-05	-1.014E-04	1.013E-06
11	15.50000	0.06736	4.113	33.008	-27.086	11.088
	(STRAIN)		-1.002E-06	9.652E-05	-1.063E-04	-8.778E-06
11	23.00000	0.06732	7.766	33.507	-47.900	-21.762
	(STRAIN)		1.543E-05	3.859E-05	-3.467E-05	-3.467E-05
11	30.50000	0.06713	9.941	16.428	-133.323	6.747
	(STRAIN)		3.465E-05	4.049E-05	-9.429E-05	-9.429E-05
12	0.00000	0.06206	0.000	176.915	15.515	124.029
	(STRAIN)		-7.793E-05	7.701E-05	-7.793E-05	2.624E-05
12	3.00000	0.05839	0.396	113.653	-4.948	25.385
	(STRAIN)		-3.895E-05	6.977E-05	-4.408E-05	-2.009E-05
12	7.20000	0.05848	1.247	21.554	-13.003	16.440
	(STRAIN)		-1.766E-05	5.088E-05	-6.575E-05	-1.447E-05
12	15.50000	0.05855	3.541	20.026	-15.872	7.707
	(STRAIN)		1.571E-06	5.721E-05	-6.395E-05	-8.308E-06
12	23.00000	0.05853	5.770	26.974	-28.939	-6.122
	(STRAIN)		7.080E-06	2.616E-05	-2.416E-05	-2.416E-05
12	30.50000	0.05844	6.897	36.874	-82.266	6.468
	(STRAIN)		1.529E-05	4.227E-05	-6.496E-05	-6.496E-05

PERIOD NO. 1 LOAD GROUP NO. 7

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)

1	0.00000	0.06861	0.000	117.032	11.926	77.631
	(STRAIN)		-4.915E-05	5.175E-05	-4.915E-05	3.987E-06
1	3.00000	0.06295	-0.002	53.296	-17.404	1.621
	(STRAIN)		-1.101E-05	4.016E-05	-2.771E-05	-3.895E-05
1	7.20000	0.06297	0.800	11.201	-8.435	5.630
	(STRAIN)		-4.648E-06	3.046E-05	-3.581E-05	-2.796E-05
1	15.50000	0.06299	2.341	10.038	-7.231	4.499
	(STRAIN)		1.507E-06	2.749E-05	-3.080E-05	-7.386E-06
1	23.00000	0.06299	3.784	24.581	-7.383	1.023
	(STRAIN)		-8.453E-07	1.787E-05	-1.090E-05	-1.491E-05
1	30.50000	0.06300	4.535	47.207	-28.283	4.343
	(STRAIN)		-1.347E-06	3.706E-05	-3.088E-05	-4.128E-05
2	0.00000	0.07753	0.000	165.757	15.101	128.682
	(STRAIN)		-7.630E-05	6.833E-05	-7.630E-05	2.833E-05
2	3.00000	0.07042	0.150	80.598	-4.642	16.961
	(STRAIN)		-2.711E-05	5.012E-05	-3.171E-05	-2.969E-05
2	7.20000	0.07048	1.137	16.575	-10.241	11.825
	(STRAIN)		-1.205E-05	4.005E-05	-5.045E-05	-2.137E-05
2	15.50000	0.07053	3.275	16.588	-11.994	6.120
	(STRAIN)		1.680E-06	4.661E-05	-4.985E-05	-7.386E-06
2	23.00000	0.07052	5.333	24.869	-14.808	-2.641
	(STRAIN)		3.068E-06	2.065E-05	-1.506E-05	-1.930E-05
2	30.50000	0.07048	6.394	36.436	-47.732	5.997
	(STRAIN)		6.991E-06	3.403E-05	-4.172E-05	-5.265E-05
3	0.00000	0.08513	0.000	225.477	23.287	185.071
	(STRAIN)		-1.049E-04	8.920E-05	-1.049E-04	4.617E-05
3	3.00000	0.07870	0.145	122.120	-3.215	65.472
	(STRAIN)		-5.394E-05	6.315E-05	-5.717E-05	-9.530E-06
3	7.20000	0.07883	1.269	26.993	-13.839	20.344
	(STRAIN)		-2.503E-05	6.179E-05	-7.602E-05	-7.002E-06
3	15.50000	0.07893	3.859	26.729	-20.218	8.493
	(STRAIN)		-1.041E-07	7.708E-05	-8.136E-05	-6.241E-06
3	23.00000	0.07891	7.069	28.063	-27.335	-14.365
	(STRAIN)		9.544E-06	2.844E-05	-2.142E-05	-2.527E-05
3	30.50000	0.07879	8.958	15.258	-80.847	6.204
	(STRAIN)		2.192E-05	2.759E-05	-5.891E-05	-6.903E-05
4	0.00000	0.09346	0.000	309.517	40.833	276.576
	(STRAIN)		-1.447E-04	1.132E-04	-1.447E-04	7.733E-05
4	3.00000	0.08761	-0.689	183.005	-3.671	145.187
	(STRAIN)		-9.585E-05	8.049E-05	-9.872E-05	2.559E-05
4	7.20000	0.08786	-1.427	47.054	-18.918	29.815
	(STRAIN)		-5.553E-05	1.081E-04	-1.146E-04	2.464E-05
4	15.50000	0.08817	1.329	45.238	-36.905	11.961
	(STRAIN)		-1.327E-05	1.349E-04	-1.423E-04	3.840E-06
4	23.00000	0.08815	8.281	41.883	-51.717	-43.801
	(STRAIN)		1.997E-05	5.021E-05	-3.403E-05	-3.475E-05
4	30.50000	0.08788	12.741	13.206	-145.085	-43.122
	(STRAIN)		5.230E-05	5.272E-05	-8.974E-05	-9.759E-05
5	0.00000	0.10392	0.000	502.962	126.253	471.533
	(STRAIN)		-2.017E-04	1.600E-04	-2.017E-04	1.270E-04
5	3.00000	0.09788	11.789	426.411	7.449	263.708
	(STRAIN)		-1.933E-04	2.047E-04	-1.975E-04	4.511E-05
5	7.20000	0.09823	36.275	151.725	-7.766	48.991
	(STRAIN)		-4.640E-05	3.432E-04	-1.950E-04	-6.116E-06
5	15.50000	0.09818	46.870	141.607	-49.808	40.719
	(STRAIN)		4.223E-05	3.620E-04	-2.841E-04	1.966E-05
5	23.00000	0.09801	31.698	84.871	-108.960	-86.003
	(STRAIN)		5.422E-05	1.021E-04	-7.238E-05	-5.498E-05
5	30.50000	0.09735	18.903	19.052	-280.434	-201.932

	(STRAIN)		1.251E-04	1.253E-04	-1.443E-04	-1.503E-04
6	0.00000	0.12116	520.000	1582.719	762.985	1576.077
	(STRAIN)		-4.179E-04	3.690E-04	-4.179E-04	3.596E-04
6	3.00000	0.11555	512.470	513.678	296.184	335.099
	(STRAIN)		1.561E-04	1.573E-04	-5.152E-05	-5.501E-05
6	7.20000	0.11195	424.249	425.709	126.759	137.044
	(STRAIN)		8.285E-04	8.334E-04	-1.755E-04	-1.770E-04
6	15.50000	0.10676	235.380	243.652	121.012	129.956
	(STRAIN)		3.616E-04	3.895E-04	-2.438E-05	1.778E-06
6	23.00000	0.10599	91.660	97.118	-125.057	-120.212
	(STRAIN)		1.171E-04	1.220E-04	-7.798E-05	-7.943E-05
6	30.50000	0.10484	25.114	25.141	-427.740	-398.498
	(STRAIN)		2.095E-04	2.095E-04	-1.980E-04	-2.025E-04
7	0.00000	0.11470	0.000	711.658	219.712	693.619
	(STRAIN)		-2.657E-04	2.065E-04	-2.657E-04	1.892E-04
7	3.00000	0.10836	23.238	712.115	23.218	368.657
	(STRAIN)		-3.015E-04	3.598E-04	-3.015E-04	3.005E-05
7	7.20000	0.10886	71.096	194.268	66.520	73.574
	(STRAIN)		-5.262E-05	3.631E-04	-6.806E-05	-5.970E-05
7	15.50000	0.10858	89.174	90.041	69.317	85.681
	(STRAIN)		8.655E-05	8.948E-05	1.954E-05	2.246E-05
7	23.00000	0.10828	54.347	54.427	-133.113	-102.505
	(STRAIN)		9.119E-05	9.126E-05	-7.752E-05	-7.745E-05
7	30.50000	0.10718	25.967	25.973	-440.027	-388.711
	(STRAIN)		2.107E-04	2.107E-04	-2.087E-04	-2.087E-04
8	0.00000	0.12116	520.000	1582.719	762.985	1576.077
	(STRAIN)		-4.179E-04	3.690E-04	-4.179E-04	3.596E-04
8	3.00000	0.11555	512.470	513.678	296.184	335.099
	(STRAIN)		1.561E-04	1.573E-04	-5.152E-05	-5.501E-05
8	7.20000	0.11195	424.249	425.709	126.759	137.044
	(STRAIN)		8.285E-04	8.334E-04	-1.755E-04	-1.770E-04
8	15.50000	0.10676	235.380	243.652	121.012	129.956
	(STRAIN)		3.616E-04	3.895E-04	-2.438E-05	1.778E-06
8	23.00000	0.10599	91.660	97.118	-125.057	-120.212
	(STRAIN)		1.171E-04	1.220E-04	-7.798E-05	-7.943E-05
8	30.50000	0.10484	25.114	25.141	-427.740	-398.498
	(STRAIN)		2.095E-04	2.095E-04	-1.980E-04	-2.025E-04
9	0.00000	0.10392	0.000	502.962	126.253	471.533
	(STRAIN)		-2.017E-04	1.600E-04	-2.017E-04	1.270E-04
9	3.00000	0.09788	11.789	426.411	7.449	263.708
	(STRAIN)		-1.933E-04	2.047E-04	-1.975E-04	4.511E-05
9	7.20000	0.09823	36.275	151.725	-7.766	48.991
	(STRAIN)		-4.640E-05	3.432E-04	-1.950E-04	-6.116E-06
9	15.50000	0.09818	46.870	141.607	-49.808	40.719
	(STRAIN)		4.223E-05	3.620E-04	-2.841E-04	1.966E-05
9	23.00000	0.09801	31.698	84.871	-108.960	-86.003
	(STRAIN)		5.422E-05	1.021E-04	-7.238E-05	-5.498E-05
9	30.50000	0.09735	18.903	19.052	-280.434	-201.932
	(STRAIN)		1.251E-04	1.253E-04	-1.443E-04	-1.503E-04
10	0.00000	0.09346	0.000	309.517	40.833	276.576
	(STRAIN)		-1.447E-04	1.132E-04	-1.447E-04	7.733E-05
10	3.00000	0.08761	-0.689	183.005	-3.671	145.187
	(STRAIN)		-9.585E-05	8.049E-05	-9.872E-05	2.559E-05
10	7.20000	0.08786	-1.427	47.054	-18.918	29.815
	(STRAIN)		-5.553E-05	1.081E-04	-1.146E-04	2.464E-05
10	15.50000	0.08817	1.329	45.238	-36.905	11.961
	(STRAIN)		-1.327E-05	1.349E-04	-1.423E-04	3.840E-06
10	23.00000	0.08815	8.281	41.883	-51.717	-43.801
	(STRAIN)		1.997E-05	5.021E-05	-3.403E-05	-3.475E-05

10	30.50000	0.08788	12.741	13.206	-145.085	-43.122
	(STRAIN)		5.230E-05	5.272E-05	-8.974E-05	-9.759E-05
11	0.00000	0.08513	0.000	225.477	23.287	185.071
	(STRAIN)		-1.049E-04	8.920E-05	-1.049E-04	4.617E-05
11	3.00000	0.07870	0.145	122.120	-3.215	65.472
	(STRAIN)		-5.394E-05	6.315E-05	-5.717E-05	-9.530E-06
11	7.20000	0.07883	1.269	26.993	-13.839	20.344
	(STRAIN)		-2.503E-05	6.179E-05	-7.602E-05	-7.002E-06
11	15.50000	0.07893	3.859	26.729	-20.218	8.493
	(STRAIN)		-1.041E-07	7.708E-05	-8.136E-05	-6.241E-06
11	23.00000	0.07891	7.069	28.063	-27.335	-14.365
	(STRAIN)		9.544E-06	2.844E-05	-2.142E-05	-2.527E-05
11	30.50000	0.07879	8.958	15.258	-80.847	6.204
	(STRAIN)		2.192E-05	2.759E-05	-5.891E-05	-6.903E-05
12	0.00000	0.07753	0.000	165.757	15.101	128.682
	(STRAIN)		-7.630E-05	6.833E-05	-7.630E-05	2.833E-05
12	3.00000	0.07042	0.150	80.598	-4.642	16.961
	(STRAIN)		-2.711E-05	5.012E-05	-3.171E-05	-2.969E-05
12	7.20000	0.07048	1.137	16.575	-10.241	11.825
	(STRAIN)		-1.205E-05	4.005E-05	-5.045E-05	-2.137E-05
12	15.50000	0.07053	3.275	16.588	-11.994	6.120
	(STRAIN)		1.680E-06	4.661E-05	-4.985E-05	-7.386E-06
12	23.00000	0.07052	5.333	24.869	-14.808	-2.641
	(STRAIN)		3.068E-06	2.065E-05	-1.506E-05	-1.930E-05
12	30.50000	0.07048	6.394	36.436	-47.732	5.997
	(STRAIN)		6.991E-06	3.403E-05	-4.172E-05	-5.265E-05

PERIOD NO. 1 LOAD GROUP NO. 8

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.07917	0.000	135.037	13.760	89.575
	(STRAIN)		-5.671E-05	5.971E-05	-5.671E-05	4.600E-06
1	3.00000	0.07263	-0.003	61.495	-20.082	1.871
	(STRAIN)		-1.270E-05	4.634E-05	-3.198E-05	-4.495E-05
1	7.20000	0.07266	0.923	12.924	-9.733	6.497
	(STRAIN)		-5.363E-06	3.514E-05	-4.132E-05	-3.226E-05
1	15.50000	0.07268	2.701	11.582	-8.343	5.191
	(STRAIN)		1.739E-06	3.171E-05	-3.553E-05	-8.522E-06
1	23.00000	0.07269	4.367	28.362	-8.519	1.180
	(STRAIN)		-9.754E-07	2.062E-05	-1.257E-05	-1.720E-05
1	30.50000	0.07269	5.233	54.470	-32.635	5.011
	(STRAIN)		-1.555E-06	4.276E-05	-3.564E-05	-4.763E-05
2	0.00000	0.08946	0.000	191.258	17.424	148.479
	(STRAIN)		-8.804E-05	7.884E-05	-8.804E-05	3.269E-05
2	3.00000	0.08125	0.173	92.997	-5.356	19.570
	(STRAIN)		-3.128E-05	5.783E-05	-3.659E-05	-3.426E-05
2	7.20000	0.08133	1.312	19.125	-11.817	13.645
	(STRAIN)		-1.391E-05	4.621E-05	-5.822E-05	-2.466E-05
2	15.50000	0.08138	3.779	19.140	-13.839	7.062
	(STRAIN)		1.938E-06	5.378E-05	-5.752E-05	-8.522E-06
2	23.00000	0.08137	6.154	28.695	-17.086	-3.047
	(STRAIN)		3.540E-06	2.383E-05	-1.738E-05	-2.227E-05
2	30.50000	0.08133	7.377	42.042	-55.075	6.920
	(STRAIN)		8.066E-06	3.926E-05	-4.814E-05	-6.076E-05
3	0.00000	0.09822	0.000	260.166	26.870	213.544
	(STRAIN)		-1.210E-04	1.029E-04	-1.210E-04	5.327E-05

3	3.00000	0.09080	0.167	140.908	-3.709	75.544
	(STRAIN)		-6.224E-05	7.287E-05	-6.597E-05	-1.100E-05
3	7.20000	0.09095	1.464	31.146	-15.968	23.473
	(STRAIN)		-2.888E-05	7.130E-05	-8.771E-05	-8.079E-06
3	15.50000	0.09108	4.453	30.841	-23.329	9.799
	(STRAIN)		-1.201E-07	8.894E-05	-9.388E-05	-7.201E-06
3	23.00000	0.09105	8.157	32.380	-31.541	-16.575
	(STRAIN)		1.101E-05	3.281E-05	-2.471E-05	-2.915E-05
3	30.50000	0.09092	10.336	17.605	-93.285	7.158
	(STRAIN)		2.529E-05	3.183E-05	-6.797E-05	-7.966E-05
4	0.00000	0.10784	0.000	357.135	47.115	319.125
	(STRAIN)		-1.670E-04	1.307E-04	-1.670E-04	8.923E-05
4	3.00000	0.10108	-0.795	211.159	-4.235	167.523
	(STRAIN)		-1.106E-04	9.288E-05	-1.139E-04	2.952E-05
4	7.20000	0.10138	-1.647	54.294	-21.829	34.402
	(STRAIN)		-6.407E-05	1.247E-04	-1.322E-04	2.843E-05
4	15.50000	0.10173	1.534	52.198	-42.583	13.801
	(STRAIN)		-1.531E-05	1.557E-04	-1.642E-04	4.431E-06
4	23.00000	0.10171	9.555	48.326	-59.674	-50.539
	(STRAIN)		2.304E-05	5.793E-05	-3.927E-05	-4.010E-05
4	30.50000	0.10140	14.701	15.238	-167.406	-49.756
	(STRAIN)		6.035E-05	6.083E-05	-1.036E-04	-1.126E-04
5	0.00000	0.11991	0.000	580.339	145.677	544.079
	(STRAIN)		-2.327E-04	1.846E-04	-2.327E-04	1.465E-04
5	3.00000	0.11294	13.602	492.013	8.595	304.278
	(STRAIN)		-2.230E-04	2.362E-04	-2.278E-04	5.206E-05
5	7.20000	0.11334	41.855	175.067	-8.960	56.528
	(STRAIN)		-5.354E-05	3.960E-04	-2.250E-04	-7.057E-06
5	15.50000	0.11329	54.081	163.393	-57.471	46.984
	(STRAIN)		4.873E-05	4.177E-04	-3.278E-04	2.268E-05
5	23.00000	0.11309	36.574	97.928	-125.724	-99.235
	(STRAIN)		6.256E-05	1.178E-04	-8.351E-05	-6.344E-05
5	30.50000	0.11233	21.811	21.983	-323.578	-232.998
	(STRAIN)		1.444E-04	1.445E-04	-1.665E-04	-1.735E-04
6	0.00000	0.13980	600.000	1826.260	880.368	1818.505
	(STRAIN)		-4.822E-04	4.258E-04	-4.822E-04	4.150E-04
6	3.00000	0.13332	591.312	592.704	341.749	386.656
	(STRAIN)		1.801E-04	1.815E-04	-5.945E-05	-6.348E-05
6	7.20000	0.12917	489.518	491.203	146.261	158.127
	(STRAIN)		9.560E-04	9.617E-04	-2.025E-04	-2.042E-04
6	15.50000	0.12318	271.592	281.137	139.629	149.949
	(STRAIN)		4.172E-04	4.495E-04	-2.813E-05	2.051E-06
6	23.00000	0.12229	105.761	112.059	-144.296	-138.707
	(STRAIN)		1.351E-04	1.407E-04	-8.998E-05	-9.166E-05
6	30.50000	0.12097	28.978	29.009	-493.546	-459.805
	(STRAIN)		2.418E-04	2.418E-04	-2.285E-04	-2.337E-04
7	0.00000	0.13234	0.000	821.144	253.514	800.329
	(STRAIN)		-3.066E-04	2.383E-04	-3.066E-04	2.183E-04
7	3.00000	0.12503	26.813	821.671	26.790	425.374
	(STRAIN)		-3.479E-04	4.151E-04	-3.479E-04	3.468E-05
7	7.20000	0.12560	82.034	224.155	76.754	84.893
	(STRAIN)		-6.071E-05	4.189E-04	-7.853E-05	-6.888E-05
7	15.50000	0.12529	102.893	103.894	79.982	98.862
	(STRAIN)		9.987E-05	1.032E-04	2.254E-05	2.592E-05
7	23.00000	0.12494	62.708	62.801	-153.592	-118.274
	(STRAIN)		1.052E-04	1.053E-04	-8.945E-05	-8.937E-05
7	30.50000	0.12367	29.962	29.968	-507.724	-448.513
	(STRAIN)		2.431E-04	2.431E-04	-2.408E-04	-2.408E-04
8	0.00000	0.13980	600.000	1826.260	880.368	1818.505

	(STRAIN)		-4.822E-04	4.258E-04	-4.822E-04	4.150E-04
8	3.00000	0.13332	591.312	592.704	341.749	386.656
	(STRAIN)		1.801E-04	1.815E-04	-5.945E-05	-6.348E-05
8	7.20000	0.12917	489.518	491.203	146.261	158.127
	(STRAIN)		9.560E-04	9.617E-04	-2.025E-04	-2.042E-04
8	15.50000	0.12318	271.592	281.137	139.629	149.949
	(STRAIN)		4.172E-04	4.495E-04	-2.813E-05	2.051E-06
8	23.00000	0.12229	105.761	112.059	-144.296	-138.707
	(STRAIN)		1.351E-04	1.407E-04	-8.998E-05	-9.166E-05
8	30.50000	0.12097	28.978	29.009	-493.546	-459.805
	(STRAIN)		2.418E-04	2.418E-04	-2.285E-04	-2.337E-04
9	0.00000	0.11991	0.000	580.339	145.677	544.079
	(STRAIN)		-2.327E-04	1.846E-04	-2.327E-04	1.465E-04
9	3.00000	0.11294	13.602	492.013	8.595	304.278
	(STRAIN)		-2.230E-04	2.362E-04	-2.278E-04	5.206E-05
9	7.20000	0.11334	41.855	175.067	-8.960	56.528
	(STRAIN)		-5.354E-05	3.960E-04	-2.250E-04	-7.057E-06
9	15.50000	0.11329	54.081	163.393	-57.471	46.984
	(STRAIN)		4.873E-05	4.177E-04	-3.278E-04	2.268E-05
9	23.00000	0.11309	36.574	97.928	-125.724	-99.235
	(STRAIN)		6.256E-05	1.178E-04	-8.351E-05	-6.344E-05
9	30.50000	0.11233	21.811	21.983	-323.578	-232.998
	(STRAIN)		1.444E-04	1.445E-04	-1.665E-04	-1.735E-04
10	0.00000	0.10784	0.000	357.135	47.115	319.125
	(STRAIN)		-1.670E-04	1.307E-04	-1.670E-04	8.923E-05
10	3.00000	0.10108	-0.795	211.159	-4.235	167.523
	(STRAIN)		-1.106E-04	9.288E-05	-1.139E-04	2.952E-05
10	7.20000	0.10138	-1.647	54.294	-21.829	34.402
	(STRAIN)		-6.407E-05	1.247E-04	-1.322E-04	2.843E-05
10	15.50000	0.10173	1.534	52.198	-42.583	13.801
	(STRAIN)		-1.531E-05	1.557E-04	-1.642E-04	4.431E-06
10	23.00000	0.10171	9.555	48.326	-59.674	-50.539
	(STRAIN)		2.304E-05	5.793E-05	-3.927E-05	-4.010E-05
10	30.50000	0.10140	14.701	15.238	-167.406	-49.756
	(STRAIN)		6.035E-05	6.083E-05	-1.036E-04	-1.126E-04
11	0.00000	0.09822	0.000	260.166	26.870	213.544
	(STRAIN)		-1.210E-04	1.029E-04	-1.210E-04	5.327E-05
11	3.00000	0.09080	0.167	140.908	-3.709	75.544
	(STRAIN)		-6.224E-05	7.287E-05	-6.597E-05	-1.100E-05
11	7.20000	0.09095	1.464	31.146	-15.968	23.473
	(STRAIN)		-2.888E-05	7.130E-05	-8.771E-05	-8.079E-06
11	15.50000	0.09108	4.453	30.841	-23.329	9.799
	(STRAIN)		-1.201E-07	8.894E-05	-9.388E-05	-7.201E-06
11	23.00000	0.09105	8.157	32.380	-31.541	-16.575
	(STRAIN)		1.101E-05	3.281E-05	-2.471E-05	-2.915E-05
11	30.50000	0.09092	10.336	17.605	-93.285	7.158
	(STRAIN)		2.529E-05	3.183E-05	-6.797E-05	-7.966E-05
12	0.00000	0.08946	0.000	191.258	17.424	148.479
	(STRAIN)		-8.804E-05	7.884E-05	-8.804E-05	3.269E-05
12	3.00000	0.08125	0.173	92.997	-5.356	19.570
	(STRAIN)		-3.128E-05	5.783E-05	-3.659E-05	-3.426E-05
12	7.20000	0.08133	1.312	19.125	-11.817	13.645
	(STRAIN)		-1.391E-05	4.621E-05	-5.822E-05	-2.466E-05
12	15.50000	0.08138	3.779	19.140	-13.839	7.062
	(STRAIN)		1.938E-06	5.378E-05	-5.752E-05	-8.522E-06
12	23.00000	0.08137	6.154	28.695	-17.086	-3.047
	(STRAIN)		3.540E-06	2.383E-05	-1.738E-05	-2.227E-05
12	30.50000	0.08133	7.377	42.042	-55.075	6.920
	(STRAIN)		8.066E-06	3.926E-05	-4.814E-05	-6.076E-05

PERIOD NO. 1 LOAD GROUP NO. 9

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.09236	0.000	157.544	16.054	104.504
	(STRAIN)		-6.616E-05	6.967E-05	-6.616E-05	5.367E-06
1	3.00000	0.08474	-0.003	71.744	-23.429	2.183
	(STRAIN)		-1.482E-05	5.406E-05	-3.730E-05	-5.244E-05
1	7.20000	0.08477	1.076	15.078	-11.355	7.579
	(STRAIN)		-6.257E-06	4.100E-05	-4.821E-05	-3.763E-05
1	15.50000	0.08479	3.151	13.513	-9.734	6.056
	(STRAIN)		2.029E-06	3.700E-05	-4.146E-05	-9.942E-06
1	23.00000	0.08480	5.095	33.089	-9.939	1.377
	(STRAIN)		-1.138E-06	2.406E-05	-1.467E-05	-2.007E-05
1	30.50000	0.08481	6.105	63.548	-38.074	5.847
	(STRAIN)		-1.814E-06	4.988E-05	-4.157E-05	-5.557E-05
2	0.00000	0.10437	0.000	223.135	20.328	173.226
	(STRAIN)		-1.027E-04	9.198E-05	-1.027E-04	3.814E-05
2	3.00000	0.09479	0.202	108.497	-6.249	22.832
	(STRAIN)		-3.650E-05	6.747E-05	-4.269E-05	-3.996E-05
2	7.20000	0.09488	1.531	22.313	-13.787	15.919
	(STRAIN)		-1.622E-05	5.392E-05	-6.792E-05	-2.876E-05
2	15.50000	0.09494	4.409	22.330	-16.146	8.238
	(STRAIN)		2.261E-06	6.274E-05	-6.711E-05	-9.943E-06
2	23.00000	0.09494	7.179	33.477	-19.934	-3.555
	(STRAIN)		4.130E-06	2.780E-05	-2.027E-05	-2.598E-05
2	30.50000	0.09488	8.607	49.049	-64.255	8.073
	(STRAIN)		9.411E-06	4.581E-05	-5.616E-05	-7.088E-05
3	0.00000	0.11460	0.000	303.526	31.349	249.135
	(STRAIN)		-1.412E-04	1.201E-04	-1.412E-04	6.215E-05
3	3.00000	0.10594	0.195	164.393	-4.327	88.135
	(STRAIN)		-7.262E-05	8.501E-05	-7.696E-05	-1.283E-05
3	7.20000	0.10611	1.708	36.337	-18.629	27.386
	(STRAIN)		-3.369E-05	8.318E-05	-1.023E-04	-9.425E-06
3	15.50000	0.10626	5.195	35.981	-27.217	11.432
	(STRAIN)		-1.402E-07	1.038E-04	-1.095E-04	-8.401E-06
3	23.00000	0.10623	9.516	37.777	-36.798	-19.338
	(STRAIN)		1.285E-05	3.828E-05	-2.883E-05	-3.401E-05
3	30.50000	0.10607	12.058	20.540	-108.833	8.351
	(STRAIN)		2.951E-05	3.714E-05	-7.930E-05	-9.293E-05
4	0.00000	0.12582	0.000	416.657	54.967	372.313
	(STRAIN)		-1.948E-04	1.524E-04	-1.948E-04	1.041E-04
4	3.00000	0.11793	-0.927	246.353	-4.941	195.444
	(STRAIN)		-1.290E-04	1.084E-04	-1.329E-04	3.444E-05
4	7.20000	0.11828	-1.922	63.343	-25.467	40.136
	(STRAIN)		-7.475E-05	1.455E-04	-1.542E-04	3.316E-05
4	15.50000	0.11869	1.789	60.898	-49.680	16.101
	(STRAIN)		-1.787E-05	1.816E-04	-1.916E-04	5.170E-06
4	23.00000	0.11867	11.148	56.381	-69.619	-58.963
	(STRAIN)		2.688E-05	6.759E-05	-4.581E-05	-4.678E-05
4	30.50000	0.11830	17.152	17.778	-195.307	-58.048
	(STRAIN)		7.040E-05	7.097E-05	-1.208E-04	-1.314E-04
5	0.00000	0.13989	0.000	677.065	169.956	634.755
	(STRAIN)		-2.715E-04	2.153E-04	-2.715E-04	1.709E-04
5	3.00000	0.13176	15.870	574.015	10.028	354.991
	(STRAIN)		-2.602E-04	2.756E-04	-2.658E-04	6.073E-05

5	7.20000	0.13223	48.831	204.245	-10.454	65.949
	(STRAIN)		-6.247E-05	4.621E-04	-2.626E-04	-8.233E-06
5	15.50000	0.13217	63.095	190.625	-67.050	54.814
	(STRAIN)		5.685E-05	4.873E-04	-3.824E-04	2.646E-05
5	23.00000	0.13194	42.670	114.250	-146.677	-115.774
	(STRAIN)		7.298E-05	1.374E-04	-9.743E-05	-7.401E-05
5	30.50000	0.13105	25.446	25.647	-377.507	-271.831
	(STRAIN)		1.684E-04	1.686E-04	-1.942E-04	-2.024E-04
6	0.00000	0.16310	700.000	2130.771	1027.096	2121.455
	(STRAIN)		-5.626E-04	4.969E-04	-5.626E-04	4.841E-04
6	3.00000	0.15554	689.863	691.489	398.709	451.095
	(STRAIN)		2.102E-04	2.117E-04	-6.935E-05	-7.406E-05
6	7.20000	0.15070	571.105	573.070	170.638	184.482
	(STRAIN)		1.115E-03	1.122E-03	-2.363E-04	-2.383E-04
6	15.50000	0.14371	316.857	327.993	162.901	174.940
	(STRAIN)		4.868E-04	5.244E-04	-3.281E-05	2.393E-06
6	23.00000	0.14267	123.388	130.736	-168.346	-161.825
	(STRAIN)		1.576E-04	1.642E-04	-1.050E-04	-1.069E-04
6	30.50000	0.14113	33.807	33.843	-575.804	-536.440
	(STRAIN)		2.821E-04	2.821E-04	-2.666E-04	-2.727E-04
7	0.00000	0.15440	0.000	958.006	295.766	933.713
	(STRAIN)		-3.577E-04	2.780E-04	-3.577E-04	2.547E-04
7	3.00000	0.14587	31.282	958.617	31.255	496.269
	(STRAIN)		-4.059E-04	4.843E-04	-4.059E-04	4.046E-05
7	7.20000	0.14654	95.706	261.514	89.546	99.042
	(STRAIN)		-7.083E-05	4.888E-04	-9.162E-05	-8.036E-05
7	15.50000	0.14617	120.042	121.210	93.312	115.339
	(STRAIN)		1.165E-04	1.205E-04	2.630E-05	3.024E-05
7	23.00000	0.14576	73.160	73.268	-179.191	-137.987
	(STRAIN)		1.228E-04	1.229E-04	-1.044E-04	-1.043E-04
7	30.50000	0.14428	34.955	34.963	-592.344	-523.265
	(STRAIN)		2.836E-04	2.836E-04	-2.810E-04	-2.810E-04
8	0.00000	0.16310	700.000	2130.610	1027.096	2121.615
	(STRAIN)		-5.626E-04	4.968E-04	-5.626E-04	4.841E-04
8	3.00000	0.15554	689.863	691.489	398.709	451.095
	(STRAIN)		2.102E-04	2.117E-04	-6.935E-05	-7.406E-05
8	7.20000	0.15070	571.105	573.070	170.638	184.482
	(STRAIN)		1.115E-03	1.122E-03	-2.363E-04	-2.383E-04
8	15.50000	0.14371	316.857	327.993	162.901	174.940
	(STRAIN)		4.868E-04	5.244E-04	-3.281E-05	2.393E-06
8	23.00000	0.14267	123.388	130.736	-168.346	-161.825
	(STRAIN)		1.576E-04	1.642E-04	-1.050E-04	-1.069E-04
8	30.50000	0.14113	33.807	33.843	-575.804	-536.440
	(STRAIN)		2.821E-04	2.821E-04	-2.666E-04	-2.727E-04
9	0.00000	0.13989	0.000	677.065	169.956	634.755
	(STRAIN)		-2.715E-04	2.153E-04	-2.715E-04	1.709E-04
9	3.00000	0.13176	15.870	574.015	10.028	354.991
	(STRAIN)		-2.602E-04	2.756E-04	-2.658E-04	6.073E-05
9	7.20000	0.13223	48.831	204.245	-10.454	65.949
	(STRAIN)		-6.247E-05	4.621E-04	-2.626E-04	-8.233E-06
9	15.50000	0.13217	63.095	190.625	-67.050	54.814
	(STRAIN)		5.685E-05	4.873E-04	-3.824E-04	2.646E-05
9	23.00000	0.13194	42.670	114.250	-146.677	-115.774
	(STRAIN)		7.298E-05	1.374E-04	-9.743E-05	-7.401E-05
9	30.50000	0.13105	25.446	25.647	-377.507	-271.831
	(STRAIN)		1.684E-04	1.686E-04	-1.942E-04	-2.024E-04
10	0.00000	0.12582	0.000	416.657	54.967	372.313
	(STRAIN)		-1.948E-04	1.524E-04	-1.948E-04	1.041E-04
10	3.00000	0.11793	-0.927	246.353	-4.941	195.444

	(STRAIN)		-1.290E-04	1.084E-04	-1.329E-04	3.444E-05
10	7.20000	0.11828	-1.922	63.343	-25.467	40.136
	(STRAIN)		-7.475E-05	1.455E-04	-1.542E-04	3.316E-05
10	15.50000	0.11869	1.789	60.898	-49.680	16.101
	(STRAIN)		-1.787E-05	1.816E-04	-1.916E-04	5.170E-06
10	23.00000	0.11867	11.148	56.381	-69.619	-58.963
	(STRAIN)		2.688E-05	6.759E-05	-4.581E-05	-4.678E-05
10	30.50000	0.11830	17.152	17.778	-195.307	-58.048
	(STRAIN)		7.040E-05	7.097E-05	-1.208E-04	-1.314E-04
11	0.00000	0.11460	0.000	303.526	31.349	249.135
	(STRAIN)		-1.412E-04	1.201E-04	-1.412E-04	6.215E-05
11	3.00000	0.10594	0.195	164.393	-4.327	88.135
	(STRAIN)		-7.262E-05	8.501E-05	-7.696E-05	-1.283E-05
11	7.20000	0.10611	1.708	36.337	-18.629	27.386
	(STRAIN)		-3.369E-05	8.318E-05	-1.023E-04	-9.425E-06
11	15.50000	0.10626	5.195	35.981	-27.217	11.432
	(STRAIN)		-1.402E-07	1.038E-04	-1.095E-04	-8.401E-06
11	23.00000	0.10623	9.516	37.777	-36.798	-19.338
	(STRAIN)		1.285E-05	3.828E-05	-2.883E-05	-3.401E-05
11	30.50000	0.10607	12.058	20.540	-108.833	8.351
	(STRAIN)		2.951E-05	3.714E-05	-7.930E-05	-9.293E-05
12	0.00000	0.10437	0.000	223.135	20.328	173.226
	(STRAIN)		-1.027E-04	9.198E-05	-1.027E-04	3.814E-05
12	3.00000	0.09479	0.202	108.497	-6.249	22.832
	(STRAIN)		-3.650E-05	6.747E-05	-4.269E-05	-3.996E-05
12	7.20000	0.09488	1.531	22.313	-13.787	15.919
	(STRAIN)		-1.622E-05	5.392E-05	-6.792E-05	-2.876E-05
12	15.50000	0.09494	4.409	22.330	-16.146	8.238
	(STRAIN)		2.261E-06	6.274E-05	-6.711E-05	-9.943E-06
12	23.00000	0.09494	7.179	33.477	-19.934	-3.555
	(STRAIN)		4.130E-06	2.780E-05	-2.027E-05	-2.598E-05
12	30.50000	0.09488	8.607	49.049	-64.255	8.073
	(STRAIN)		9.411E-06	4.581E-05	-5.616E-05	-7.088E-05

PERIOD NO. 1 LOAD GROUP NO. 10

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.08245	0.000	105.597	9.491	61.771
	(STRAIN)		-4.277E-05	4.949E-05	-4.277E-05	-1.160E-05
1	3.00000	0.07707	0.414	47.334	-21.954	1.478
	(STRAIN)		-7.481E-06	3.756E-05	-2.895E-05	-4.716E-05
1	7.20000	0.07709	0.902	10.868	-8.487	4.702
	(STRAIN)		-3.152E-06	3.048E-05	-3.484E-05	-3.349E-05
1	15.50000	0.07710	2.347	10.145	-6.864	4.332
	(STRAIN)		1.259E-06	2.758E-05	-2.983E-05	-8.163E-06
1	23.00000	0.07711	3.787	27.168	-4.077	1.887
	(STRAIN)		-2.420E-06	1.862E-05	-9.497E-06	-1.466E-05
1	30.50000	0.07714	4.546	52.446	-21.144	4.354
	(STRAIN)		-4.228E-06	3.888E-05	-2.735E-05	-4.196E-05
2	0.00000	0.09198	0.000	154.702	13.887	120.633
	(STRAIN)		-7.151E-05	6.368E-05	-7.151E-05	1.861E-05
2	3.00000	0.08496	0.580	73.735	-5.258	13.055
	(STRAIN)		-2.336E-05	4.687E-05	-2.896E-05	-3.743E-05
2	7.20000	0.08501	1.241	16.668	-10.093	10.172
	(STRAIN)		-1.047E-05	4.160E-05	-4.872E-05	-2.652E-05
2	15.50000	0.08505	3.287	16.696	-11.615	5.947

	(STRAIN)		1.444E-06	4.670E-05	-4.885E-05	-7.815E-06
2	23.00000	0.08506	5.345	26.809	-11.115	-1.136
	(STRAIN)		1.414E-06	2.073E-05	-1.340E-05	-1.874E-05
2	30.50000	0.08503	6.418	41.166	-39.352	6.039
	(STRAIN)		3.944E-06	3.522E-05	-3.725E-05	-5.232E-05
3	0.00000	0.09994	0.000	212.239	22.014	178.447
	(STRAIN)		-9.993E-05	8.269E-05	-9.993E-05	3.865E-05
3	3.00000	0.09360	0.582	114.958	-2.853	60.281
	(STRAIN)		-5.001E-05	5.979E-05	-5.331E-05	-1.689E-05
3	7.20000	0.09372	1.372	27.588	-13.578	17.991
	(STRAIN)		-2.337E-05	6.511E-05	-7.383E-05	-1.179E-05
3	15.50000	0.09382	3.876	26.873	-19.836	8.288
	(STRAIN)		-3.276E-07	7.729E-05	-8.036E-05	-6.159E-06
3	23.00000	0.09381	7.092	29.219	-23.464	-11.925
	(STRAIN)		7.822E-06	2.774E-05	-1.968E-05	-2.421E-05
3	30.50000	0.09371	8.995	18.417	-70.988	7.002
	(STRAIN)		1.873E-05	2.721E-05	-5.326E-05	-6.711E-05
4	0.00000	0.10878	0.000	300.234	40.846	274.508
	(STRAIN)		-1.414E-04	1.077E-04	-1.414E-04	7.282E-05
4	3.00000	0.10281	-0.251	178.564	-3.225	136.714
	(STRAIN)		-9.178E-05	7.989E-05	-9.463E-05	1.743E-05
4	7.20000	0.10306	-1.325	47.689	-18.632	27.329
	(STRAIN)		-5.381E-05	1.116E-04	-1.122E-04	1.811E-05
4	15.50000	0.10336	1.352	45.455	-36.542	11.712
	(STRAIN)		-1.348E-05	1.354E-04	-1.414E-04	4.168E-06
4	23.00000	0.10335	8.313	42.620	-49.578	-38.937
	(STRAIN)		1.819E-05	4.907E-05	-3.391E-05	-3.293E-05
4	30.50000	0.10309	12.790	13.310	-133.655	-40.295
	(STRAIN)		4.899E-05	4.946E-05	-8.281E-05	-9.358E-05
5	0.00000	0.11946	0.000	491.400	126.267	471.336
	(STRAIN)		-1.982E-04	1.523E-04	-1.982E-04	1.256E-04
5	3.00000	0.11331	12.226	428.331	7.903	248.525
	(STRAIN)		-1.891E-04	2.103E-04	-1.933E-04	3.347E-05
5	7.20000	0.11365	36.376	152.312	-7.442	46.466
	(STRAIN)		-4.465E-05	3.466E-04	-1.925E-04	-1.375E-05
5	15.50000	0.11360	46.897	141.855	-49.431	40.431
	(STRAIN)		4.203E-05	3.625E-04	-2.831E-04	1.814E-05
5	23.00000	0.11344	31.737	85.345	-107.829	-79.666
	(STRAIN)		5.240E-05	1.006E-04	-7.321E-05	-5.243E-05
5	30.50000	0.11280	18.962	19.119	-268.056	-199.613
	(STRAIN)		1.217E-04	1.219E-04	-1.366E-04	-1.451E-04
6	0.00000	0.13683	520.000	1585.206	763.000	1561.583
	(STRAIN)		-4.144E-04	3.749E-04	-4.144E-04	3.499E-04
6	3.00000	0.13112	512.906	514.114	280.896	336.938
	(STRAIN)		1.604E-04	1.615E-04	-6.238E-05	-6.584E-05
6	7.20000	0.12751	424.350	425.803	124.159	137.906
	(STRAIN)		8.303E-04	8.352E-04	-1.828E-04	-1.845E-04
6	15.50000	0.12231	235.410	243.686	121.592	129.684
	(STRAIN)		3.614E-04	3.893E-04	-2.272E-05	1.551E-06
6	23.00000	0.12155	91.704	97.193	-121.912	-115.365
	(STRAIN)		1.152E-04	1.202E-04	-7.703E-05	-7.762E-05
6	30.50000	0.12042	25.179	25.209	-415.978	-395.316
	(STRAIN)		2.061E-04	2.061E-04	-1.910E-04	-1.979E-04
7	0.00000	0.13042	0.000	697.500	219.727	695.685
	(STRAIN)		-2.622E-04	1.965E-04	-2.622E-04	1.947E-04
7	3.00000	0.12398	23.673	714.190	23.655	353.064
	(STRAIN)		-2.973E-04	3.656E-04	-2.973E-04	1.892E-05
7	7.20000	0.12446	71.196	195.169	64.869	72.669
	(STRAIN)		-5.083E-05	3.676E-04	-7.219E-05	-6.721E-05

7	15.50000	0.12418	89.205	89.923	69.150	86.311
	(STRAIN)		8.636E-05	8.878E-05	1.867E-05	2.109E-05
7	23.00000	0.12389	54.394	54.469	-126.572	-100.979
	(STRAIN)		8.934E-05	8.941E-05	-7.353E-05	-7.346E-05
7	30.50000	0.12281	26.034	26.043	-425.745	-387.965
	(STRAIN)		2.072E-04	2.072E-04	-1.994E-04	-1.994E-04
8	0.00000	0.13683	520.000	1585.206	763.000	1561.583
	(STRAIN)		-4.144E-04	3.749E-04	-4.144E-04	3.499E-04
8	3.00000	0.13112	512.906	514.114	280.896	336.938
	(STRAIN)		1.604E-04	1.615E-04	-6.238E-05	-6.584E-05
8	7.20000	0.12751	424.350	425.803	124.159	137.906
	(STRAIN)		8.303E-04	8.352E-04	-1.828E-04	-1.845E-04
8	15.50000	0.12231	235.410	243.686	121.592	129.684
	(STRAIN)		3.614E-04	3.893E-04	-2.272E-05	1.551E-06
8	23.00000	0.12155	91.704	97.193	-121.912	-115.365
	(STRAIN)		1.152E-04	1.202E-04	-7.703E-05	-7.762E-05
8	30.50000	0.12042	25.179	25.209	-415.977	-395.316
	(STRAIN)		2.061E-04	2.061E-04	-1.910E-04	-1.979E-04
9	0.00000	0.11946	0.000	491.400	126.267	471.336
	(STRAIN)		-1.982E-04	1.523E-04	-1.982E-04	1.256E-04
9	3.00000	0.11331	12.226	428.331	7.903	248.525
	(STRAIN)		-1.891E-04	2.103E-04	-1.933E-04	3.347E-05
9	7.20000	0.11365	36.376	152.312	-7.442	46.466
	(STRAIN)		-4.465E-05	3.466E-04	-1.925E-04	-1.375E-05
9	15.50000	0.11360	46.897	141.855	-49.431	40.431
	(STRAIN)		4.203E-05	3.625E-04	-2.831E-04	1.814E-05
9	23.00000	0.11344	31.737	85.345	-107.829	-79.666
	(STRAIN)		5.240E-05	1.006E-04	-7.321E-05	-5.243E-05
9	30.50000	0.11280	18.962	19.119	-268.056	-199.613
	(STRAIN)		1.217E-04	1.219E-04	-1.366E-04	-1.451E-04
10	0.00000	0.10878	0.000	300.234	40.846	274.508
	(STRAIN)		-1.414E-04	1.077E-04	-1.414E-04	7.282E-05
10	3.00000	0.10281	-0.251	178.564	-3.225	136.714
	(STRAIN)		-9.178E-05	7.989E-05	-9.463E-05	1.743E-05
10	7.20000	0.10306	-1.325	47.689	-18.632	27.329
	(STRAIN)		-5.381E-05	1.116E-04	-1.122E-04	1.811E-05
10	15.50000	0.10336	1.352	45.455	-36.542	11.712
	(STRAIN)		-1.348E-05	1.354E-04	-1.414E-04	4.168E-06
10	23.00000	0.10335	8.313	42.620	-49.578	-38.937
	(STRAIN)		1.819E-05	4.907E-05	-3.391E-05	-3.293E-05
10	30.50000	0.10309	12.790	13.310	-133.655	-40.295
	(STRAIN)		4.899E-05	4.946E-05	-8.281E-05	-9.358E-05
11	0.00000	0.09994	0.000	212.239	22.014	178.447
	(STRAIN)		-9.993E-05	8.269E-05	-9.993E-05	3.865E-05
11	3.00000	0.09360	0.582	114.958	-2.853	60.281
	(STRAIN)		-5.001E-05	5.979E-05	-5.331E-05	-1.689E-05
11	7.20000	0.09372	1.372	27.588	-13.578	17.991
	(STRAIN)		-2.337E-05	6.511E-05	-7.383E-05	-1.179E-05
11	15.50000	0.09382	3.876	26.873	-19.836	8.288
	(STRAIN)		-3.276E-07	7.729E-05	-8.036E-05	-6.159E-06
11	23.00000	0.09381	7.092	29.219	-23.464	-11.925
	(STRAIN)		7.822E-06	2.774E-05	-1.968E-05	-2.421E-05
11	30.50000	0.09371	8.995	18.417	-70.988	7.002
	(STRAIN)		1.873E-05	2.721E-05	-5.326E-05	-6.711E-05
12	0.00000	0.09198	0.000	154.701	13.887	120.633
	(STRAIN)		-7.151E-05	6.368E-05	-7.151E-05	1.861E-05
12	3.00000	0.08496	0.580	73.735	-5.258	13.055
	(STRAIN)		-2.336E-05	4.687E-05	-2.896E-05	-3.743E-05
12	7.20000	0.08501	1.241	16.668	-10.093	10.172

	(STRAIN)		-1.047E-05	4.160E-05	-4.872E-05	-2.652E-05
12	15.50000	0.08505	3.287	16.696	-11.615	5.947
	(STRAIN)		1.444E-06	4.670E-05	-4.885E-05	-7.815E-06
12	23.00000	0.08506	5.345	26.809	-11.115	-1.136
	(STRAIN)		1.414E-06	2.073E-05	-1.340E-05	-1.874E-05
12	30.50000	0.08503	6.418	41.166	-39.352	6.039
	(STRAIN)		3.944E-06	3.522E-05	-3.725E-05	-5.232E-05

PERIOD NO. 1 LOAD GROUP NO. 11

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.09514	0.000	121.843	10.951	71.274
	(STRAIN)		-4.935E-05	5.711E-05	-4.935E-05	-1.339E-05
1	3.00000	0.08893	0.478	54.616	-25.332	1.705
	(STRAIN)		-8.632E-06	4.334E-05	-3.341E-05	-5.441E-05
1	7.20000	0.08895	1.041	12.540	-9.793	5.426
	(STRAIN)		-3.637E-06	3.517E-05	-4.020E-05	-3.865E-05
1	15.50000	0.08896	2.708	11.705	-7.921	4.999
	(STRAIN)		1.453E-06	3.182E-05	-3.442E-05	-9.419E-06
1	23.00000	0.08898	4.369	31.347	-4.704	2.178
	(STRAIN)		-2.793E-06	2.149E-05	-1.096E-05	-1.692E-05
1	30.50000	0.08901	5.246	60.515	-24.397	5.024
	(STRAIN)		-4.879E-06	4.486E-05	-3.156E-05	-4.841E-05
2	0.00000	0.10614	0.000	178.502	16.024	139.192
	(STRAIN)		-8.251E-05	7.347E-05	-8.251E-05	2.148E-05
2	3.00000	0.09803	0.669	85.079	-6.067	15.063
	(STRAIN)		-2.695E-05	5.408E-05	-3.342E-05	-4.319E-05
2	7.20000	0.09809	1.432	19.232	-11.646	11.737
	(STRAIN)		-1.208E-05	4.800E-05	-5.621E-05	-3.060E-05
2	15.50000	0.09814	3.793	19.265	-13.402	6.862
	(STRAIN)		1.666E-06	5.388E-05	-5.637E-05	-9.017E-06
2	23.00000	0.09814	6.168	30.933	-12.825	-1.311
	(STRAIN)		1.632E-06	2.392E-05	-1.546E-05	-2.162E-05
2	30.50000	0.09812	7.405	47.499	-45.407	6.969
	(STRAIN)		4.551E-06	4.063E-05	-4.298E-05	-6.037E-05
3	0.00000	0.11532	0.000	244.891	25.400	205.900
	(STRAIN)		-1.153E-04	9.541E-05	-1.153E-04	4.460E-05
3	3.00000	0.10800	0.671	132.644	-3.292	69.555
	(STRAIN)		-5.770E-05	6.899E-05	-6.151E-05	-1.949E-05
3	7.20000	0.10814	1.583	31.832	-15.667	20.759
	(STRAIN)		-2.696E-05	7.513E-05	-8.518E-05	-1.361E-05
3	15.50000	0.10826	4.473	31.008	-22.887	9.563
	(STRAIN)		-3.781E-07	8.918E-05	-9.272E-05	-7.107E-06
3	23.00000	0.10824	8.183	33.714	-27.074	-13.759
	(STRAIN)		9.026E-06	3.200E-05	-2.271E-05	-2.794E-05
3	30.50000	0.10813	10.379	21.250	-81.910	8.079
	(STRAIN)		2.161E-05	3.139E-05	-6.145E-05	-7.744E-05
4	0.00000	0.12551	0.000	346.425	47.130	316.739
	(STRAIN)		-1.631E-04	1.242E-04	-1.631E-04	8.403E-05
4	3.00000	0.11863	-0.289	206.035	-3.722	157.746
	(STRAIN)		-1.059E-04	9.218E-05	-1.092E-04	2.011E-05
4	7.20000	0.11891	-1.529	55.026	-21.498	31.533
	(STRAIN)		-6.209E-05	1.288E-04	-1.295E-04	2.090E-05
4	15.50000	0.11926	1.560	52.448	-42.164	13.514
	(STRAIN)		-1.556E-05	1.562E-04	-1.631E-04	4.809E-06
4	23.00000	0.11925	9.592	49.177	-57.205	-44.928

	(STRAIN)		2.099E-05	5.662E-05	-3.913E-05	-3.800E-05
4	30.50000	0.11895	14.758	15.357	-154.217	-46.494
	(STRAIN)		5.653E-05	5.707E-05	-9.555E-05	-1.080E-04
5	0.00000	0.13784	0.000	566.999	145.693	543.850
	(STRAIN)		-2.287E-04	1.757E-04	-2.287E-04	1.449E-04
5	3.00000	0.13074	14.107	494.228	9.119	286.759
	(STRAIN)		-2.182E-04	2.427E-04	-2.230E-04	3.862E-05
5	7.20000	0.13113	41.972	175.744	-8.587	53.615
	(STRAIN)		-5.152E-05	4.000E-04	-2.222E-04	-1.587E-05
5	15.50000	0.13107	54.112	163.679	-57.035	46.652
	(STRAIN)		4.850E-05	4.183E-04	-3.266E-04	2.093E-05
5	23.00000	0.13089	36.620	98.475	-124.418	-91.922
	(STRAIN)		6.046E-05	1.161E-04	-8.447E-05	-6.049E-05
5	30.50000	0.13015	21.879	22.061	-309.295	-230.323
	(STRAIN)		1.405E-04	1.406E-04	-1.576E-04	-1.674E-04
6	0.00000	0.15788	600.000	1829.064	880.384	1801.845
	(STRAIN)		-4.781E-04	4.326E-04	-4.781E-04	4.038E-04
6	3.00000	0.15129	591.814	593.208	324.110	388.776
	(STRAIN)		1.850E-04	1.864E-04	-7.198E-05	-7.597E-05
6	7.20000	0.14713	489.634	491.311	143.261	159.122
	(STRAIN)		9.580E-04	9.637E-04	-2.110E-04	-2.129E-04
6	15.50000	0.14113	271.627	281.176	140.299	149.636
	(STRAIN)		4.170E-04	4.492E-04	-2.621E-05	1.790E-06
6	23.00000	0.14025	105.813	112.146	-140.668	-133.114
	(STRAIN)		1.329E-04	1.386E-04	-8.889E-05	-8.956E-05
6	30.50000	0.13895	29.052	29.087	-479.974	-456.134
	(STRAIN)		2.378E-04	2.378E-04	-2.203E-04	-2.283E-04
7	0.00000	0.15049	0.000	804.747	253.531	802.775
	(STRAIN)		-3.025E-04	2.266E-04	-3.025E-04	2.247E-04
7	3.00000	0.14305	27.315	824.065	27.295	407.381
	(STRAIN)		-3.430E-04	4.219E-04	-3.430E-04	2.184E-05
7	7.20000	0.14361	82.149	225.195	74.849	83.849
	(STRAIN)		-5.865E-05	4.241E-04	-8.329E-05	-7.756E-05
7	15.50000	0.14329	102.929	103.755	79.788	99.592
	(STRAIN)		9.964E-05	1.024E-04	2.154E-05	2.433E-05
7	23.00000	0.14295	62.762	62.849	-146.044	-116.514
	(STRAIN)		1.031E-04	1.032E-04	-8.484E-05	-8.476E-05
7	30.50000	0.14170	30.039	30.049	-491.244	-447.653
	(STRAIN)		2.391E-04	2.391E-04	-2.301E-04	-2.300E-04
8	0.00000	0.15788	600.000	1829.064	880.384	1801.845
	(STRAIN)		-4.781E-04	4.326E-04	-4.781E-04	4.038E-04
8	3.00000	0.15129	591.814	593.208	324.110	388.776
	(STRAIN)		1.850E-04	1.864E-04	-7.198E-05	-7.597E-05
8	7.20000	0.14713	489.634	491.311	143.261	159.122
	(STRAIN)		9.580E-04	9.637E-04	-2.110E-04	-2.129E-04
8	15.50000	0.14113	271.627	281.176	140.299	149.636
	(STRAIN)		4.170E-04	4.492E-04	-2.621E-05	1.790E-06
8	23.00000	0.14025	105.813	112.146	-140.668	-133.114
	(STRAIN)		1.329E-04	1.386E-04	-8.889E-05	-8.956E-05
8	30.50000	0.13895	29.052	29.087	-479.974	-456.134
	(STRAIN)		2.378E-04	2.378E-04	-2.203E-04	-2.283E-04
9	0.00000	0.13784	0.000	566.999	145.693	543.850
	(STRAIN)		-2.287E-04	1.757E-04	-2.287E-04	1.449E-04
9	3.00000	0.13074	14.107	494.228	9.119	286.759
	(STRAIN)		-2.182E-04	2.427E-04	-2.230E-04	3.862E-05
9	7.20000	0.13113	41.972	175.744	-8.587	53.615
	(STRAIN)		-5.152E-05	4.000E-04	-2.222E-04	-1.587E-05
9	15.50000	0.13107	54.112	163.679	-57.035	46.652
	(STRAIN)		4.850E-05	4.183E-04	-3.266E-04	2.093E-05

9	23.00000	0.13089	36.620	98.475	-124.418	-91.922
	(STRAIN)		6.046E-05	1.161E-04	-8.447E-05	-6.049E-05
9	30.50000	0.13015	21.879	22.061	-309.295	-230.323
	(STRAIN)		1.405E-04	1.406E-04	-1.576E-04	-1.674E-04
10	0.00000	0.12551	0.000	346.425	47.130	316.739
	(STRAIN)		-1.631E-04	1.242E-04	-1.631E-04	8.403E-05
10	3.00000	0.11863	-0.289	206.035	-3.722	157.746
	(STRAIN)		-1.059E-04	9.218E-05	-1.092E-04	2.011E-05
10	7.20000	0.11891	-1.529	55.026	-21.498	31.533
	(STRAIN)		-6.209E-05	1.288E-04	-1.295E-04	2.090E-05
10	15.50000	0.11926	1.560	52.448	-42.164	13.514
	(STRAIN)		-1.556E-05	1.562E-04	-1.631E-04	4.809E-06
10	23.00000	0.11925	9.592	49.177	-57.205	-44.928
	(STRAIN)		2.099E-05	5.662E-05	-3.913E-05	-3.800E-05
10	30.50000	0.11895	14.758	15.357	-154.217	-46.494
	(STRAIN)		5.653E-05	5.707E-05	-9.555E-05	-1.080E-04
11	0.00000	0.11532	0.000	244.891	25.400	205.900
	(STRAIN)		-1.153E-04	9.541E-05	-1.153E-04	4.460E-05
11	3.00000	0.10800	0.671	132.644	-3.292	69.555
	(STRAIN)		-5.770E-05	6.899E-05	-6.151E-05	-1.949E-05
11	7.20000	0.10814	1.583	31.832	-15.667	20.759
	(STRAIN)		-2.696E-05	7.513E-05	-8.518E-05	-1.361E-05
11	15.50000	0.10826	4.473	31.008	-22.887	9.563
	(STRAIN)		-3.781E-07	8.918E-05	-9.272E-05	-7.107E-06
11	23.00000	0.10824	8.183	33.714	-27.074	-13.759
	(STRAIN)		9.026E-06	3.200E-05	-2.271E-05	-2.794E-05
11	30.50000	0.10813	10.379	21.250	-81.910	8.079
	(STRAIN)		2.161E-05	3.139E-05	-6.145E-05	-7.744E-05
12	0.00000	0.10614	0.000	178.502	16.024	139.192
	(STRAIN)		-8.251E-05	7.347E-05	-8.251E-05	2.148E-05
12	3.00000	0.09803	0.669	85.079	-6.067	15.063
	(STRAIN)		-2.695E-05	5.408E-05	-3.342E-05	-4.319E-05
12	7.20000	0.09809	1.432	19.232	-11.646	11.737
	(STRAIN)		-1.208E-05	4.800E-05	-5.621E-05	-3.060E-05
12	15.50000	0.09814	3.793	19.265	-13.402	6.862
	(STRAIN)		1.666E-06	5.388E-05	-5.637E-05	-9.017E-06
12	23.00000	0.09814	6.168	30.933	-12.825	-1.311
	(STRAIN)		1.632E-06	2.392E-05	-1.546E-05	-2.162E-05
12	30.50000	0.09812	7.405	47.499	-45.407	6.969
	(STRAIN)		4.551E-06	4.063E-05	-4.298E-05	-6.037E-05

PERIOD NO. 1 LOAD GROUP NO. 12

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.11099	0.000	142.150	12.776	83.153
	(STRAIN)		-5.757E-05	6.663E-05	-5.757E-05	-1.562E-05
1	3.00000	0.10375	0.557	63.719	-29.554	1.989
	(STRAIN)		-1.007E-05	5.056E-05	-3.898E-05	-6.348E-05
1	7.20000	0.10378	1.215	14.630	-11.425	6.330
	(STRAIN)		-4.243E-06	4.103E-05	-4.690E-05	-4.509E-05
1	15.50000	0.10379	3.159	13.656	-9.241	5.832
	(STRAIN)		1.695E-06	3.712E-05	-4.015E-05	-1.099E-05
1	23.00000	0.10381	5.097	36.572	-5.488	2.540
	(STRAIN)		-3.258E-06	2.507E-05	-1.278E-05	-1.974E-05
1	30.50000	0.10384	6.120	70.601	-28.463	5.861
	(STRAIN)		-5.692E-06	5.234E-05	-3.682E-05	-5.648E-05

2	0.00000	0.12382	0.000	208.252	18.695	162.390
	(STRAIN)		-9.626E-05	8.572E-05	-9.626E-05	2.506E-05
2	3.00000	0.11437	0.781	99.258	-7.078	17.574
	(STRAIN)		-3.145E-05	6.309E-05	-3.899E-05	-5.038E-05
2	7.20000	0.11444	1.670	22.437	-13.587	13.693
	(STRAIN)		-1.409E-05	5.600E-05	-6.558E-05	-3.571E-05
2	15.50000	0.11449	4.425	22.476	-15.636	8.006
	(STRAIN)		1.944E-06	6.287E-05	-6.576E-05	-1.052E-05
2	23.00000	0.11450	7.196	36.088	-14.963	-1.530
	(STRAIN)		1.904E-06	2.791E-05	-1.804E-05	-2.522E-05
2	30.50000	0.11447	8.640	55.415	-52.974	8.130
	(STRAIN)		5.309E-06	4.741E-05	-5.014E-05	-7.043E-05
3	0.00000	0.13454	0.000	285.707	29.634	240.217
	(STRAIN)		-1.345E-04	1.113E-04	-1.345E-04	5.203E-05
3	3.00000	0.12600	0.783	154.751	-3.841	81.147
	(STRAIN)		-6.732E-05	8.049E-05	-7.176E-05	-2.274E-05
3	7.20000	0.12616	1.847	37.137	-18.278	24.218
	(STRAIN)		-3.146E-05	8.765E-05	-9.938E-05	-1.587E-05
3	15.50000	0.12630	5.218	36.176	-26.702	11.157
	(STRAIN)		-4.411E-07	1.040E-04	-1.082E-04	-8.292E-06
3	23.00000	0.12628	9.547	39.333	-31.587	-16.053
	(STRAIN)		1.053E-05	3.734E-05	-2.649E-05	-3.259E-05
3	30.50000	0.12615	12.109	24.792	-95.561	9.425
	(STRAIN)		2.521E-05	3.663E-05	-7.169E-05	-9.035E-05
4	0.00000	0.14643	0.000	404.162	54.985	369.529
	(STRAIN)		-1.903E-04	1.449E-04	-1.903E-04	9.803E-05
4	3.00000	0.13840	-0.337	240.375	-4.342	184.037
	(STRAIN)		-1.235E-04	1.075E-04	-1.274E-04	2.346E-05
4	7.20000	0.13873	-1.784	64.197	-25.081	36.789
	(STRAIN)		-7.244E-05	1.502E-04	-1.511E-04	2.438E-05
4	15.50000	0.13914	1.820	61.189	-49.191	15.766
	(STRAIN)		-1.815E-05	1.822E-04	-1.903E-04	5.611E-06
4	23.00000	0.13913	11.191	57.373	-66.739	-52.416
	(STRAIN)		2.449E-05	6.605E-05	-4.565E-05	-4.433E-05
4	30.50000	0.13878	17.218	17.917	-179.920	-54.243
	(STRAIN)		6.595E-05	6.658E-05	-1.115E-04	-1.260E-04
5	0.00000	0.16081	0.000	661.499	169.975	634.492
	(STRAIN)		-2.668E-04	2.050E-04	-2.668E-04	1.690E-04
5	3.00000	0.15253	16.458	576.599	10.639	334.553
	(STRAIN)		-2.546E-04	2.831E-04	-2.602E-04	4.506E-05
5	7.20000	0.15299	48.967	205.035	-10.018	62.550
	(STRAIN)		-6.011E-05	4.666E-04	-2.592E-04	-1.852E-05
5	15.50000	0.15292	63.131	190.959	-66.541	54.427
	(STRAIN)		5.658E-05	4.880E-04	-3.811E-04	2.442E-05
5	23.00000	0.15270	42.723	114.887	-145.155	-107.243
	(STRAIN)		7.054E-05	1.355E-04	-9.855E-05	-7.057E-05
5	30.50000	0.15184	25.525	25.738	-360.844	-268.710
	(STRAIN)		1.639E-04	1.641E-04	-1.839E-04	-1.953E-04
6	0.00000	0.18420	700.000	2133.955	1027.115	2102.106
	(STRAIN)		-5.578E-04	5.047E-04	-5.578E-04	4.710E-04
6	3.00000	0.17650	690.449	692.076	378.128	453.572
	(STRAIN)		2.159E-04	2.174E-04	-8.397E-05	-8.864E-05
6	7.20000	0.17165	571.240	573.197	167.137	185.642
	(STRAIN)		1.118E-03	1.124E-03	-2.461E-04	-2.484E-04
6	15.50000	0.16465	316.898	328.038	163.681	174.577
	(STRAIN)		4.865E-04	5.241E-04	-3.059E-05	2.088E-06
6	23.00000	0.16362	123.448	130.837	-164.113	-155.300
	(STRAIN)		1.551E-04	1.618E-04	-1.037E-04	-1.045E-04
6	30.50000	0.16210	33.894	33.935	-559.969	-532.157

	(STRAIN)		2.774E-04	2.775E-04	-2.571E-04	-2.663E-04
7	0.00000	0.17557	0.000	938.963	295.786	936.479
	(STRAIN)		-3.529E-04	2.645E-04	-3.529E-04	2.621E-04
7	3.00000	0.16690	31.867	961.410	31.844	475.278
	(STRAIN)		-4.002E-04	4.922E-04	-4.002E-04	2.548E-05
7	7.20000	0.16755	95.841	262.728	87.324	97.824
	(STRAIN)		-6.843E-05	4.948E-04	-9.717E-05	-9.048E-05
7	15.50000	0.16717	120.084	121.047	93.086	116.191
	(STRAIN)		1.162E-04	1.195E-04	2.513E-05	2.839E-05
7	23.00000	0.16678	73.222	73.323	-170.385	-135.933
	(STRAIN)		1.203E-04	1.204E-04	-9.898E-05	-9.889E-05
7	30.50000	0.16532	35.045	35.057	-573.118	-522.262
	(STRAIN)		2.789E-04	2.790E-04	-2.684E-04	-2.684E-04
8	0.00000	0.18420	700.000	2133.908	1027.115	2102.153
	(STRAIN)		-5.578E-04	5.047E-04	-5.578E-04	4.710E-04
8	3.00000	0.17650	690.449	692.076	378.128	453.572
	(STRAIN)		2.159E-04	2.174E-04	-8.397E-05	-8.864E-05
8	7.20000	0.17165	571.240	573.197	167.137	185.642
	(STRAIN)		1.118E-03	1.124E-03	-2.461E-04	-2.484E-04
8	15.50000	0.16465	316.898	328.038	163.681	174.577
	(STRAIN)		4.865E-04	5.241E-04	-3.059E-05	2.088E-06
8	23.00000	0.16362	123.448	130.837	-164.113	-155.300
	(STRAIN)		1.551E-04	1.618E-04	-1.037E-04	-1.045E-04
8	30.50000	0.16210	33.894	33.935	-559.969	-532.157
	(STRAIN)		2.774E-04	2.775E-04	-2.571E-04	-2.663E-04
9	0.00000	0.16081	0.000	661.499	169.975	634.492
	(STRAIN)		-2.668E-04	2.050E-04	-2.668E-04	1.690E-04
9	3.00000	0.15253	16.458	576.599	10.639	334.553
	(STRAIN)		-2.546E-04	2.831E-04	-2.602E-04	4.506E-05
9	7.20000	0.15299	48.967	205.035	-10.018	62.550
	(STRAIN)		-6.011E-05	4.666E-04	-2.592E-04	-1.852E-05
9	15.50000	0.15292	63.131	190.959	-66.541	54.427
	(STRAIN)		5.658E-05	4.880E-04	-3.811E-04	2.442E-05
9	23.00000	0.15270	42.723	114.887	-145.155	-107.243
	(STRAIN)		7.054E-05	1.355E-04	-9.855E-05	-7.057E-05
9	30.50000	0.15184	25.525	25.738	-360.844	-268.710
	(STRAIN)		1.639E-04	1.641E-04	-1.839E-04	-1.953E-04
10	0.00000	0.14643	0.000	404.162	54.985	369.529
	(STRAIN)		-1.903E-04	1.449E-04	-1.903E-04	9.803E-05
10	3.00000	0.13840	-0.337	240.375	-4.342	184.037
	(STRAIN)		-1.235E-04	1.075E-04	-1.274E-04	2.346E-05
10	7.20000	0.13873	-1.784	64.197	-25.081	36.789
	(STRAIN)		-7.244E-05	1.502E-04	-1.511E-04	2.438E-05
10	15.50000	0.13914	1.820	61.189	-49.191	15.766
	(STRAIN)		-1.815E-05	1.822E-04	-1.903E-04	5.611E-06
10	23.00000	0.13913	11.191	57.373	-66.739	-52.416
	(STRAIN)		2.449E-05	6.605E-05	-4.565E-05	-4.433E-05
10	30.50000	0.13878	17.218	17.917	-179.920	-54.243
	(STRAIN)		6.595E-05	6.658E-05	-1.115E-04	-1.260E-04
11	0.00000	0.13454	0.000	285.707	29.634	240.217
	(STRAIN)		-1.345E-04	1.113E-04	-1.345E-04	5.203E-05
11	3.00000	0.12600	0.783	154.751	-3.841	81.147
	(STRAIN)		-6.732E-05	8.049E-05	-7.176E-05	-2.274E-05
11	7.20000	0.12616	1.847	37.137	-18.278	24.218
	(STRAIN)		-3.146E-05	8.765E-05	-9.938E-05	-1.587E-05
11	15.50000	0.12630	5.218	36.176	-26.702	11.157
	(STRAIN)		-4.411E-07	1.040E-04	-1.082E-04	-8.292E-06
11	23.00000	0.12628	9.547	39.333	-31.587	-16.053
	(STRAIN)		1.053E-05	3.734E-05	-2.649E-05	-3.259E-05

11	30.50000	0.12615	12.109	24.792	-95.561	9.425
	(STRAIN)		2.521E-05	3.663E-05	-7.169E-05	-9.035E-05
12	0.00000	0.12382	0.000	208.252	18.695	162.390
	(STRAIN)		-9.626E-05	8.572E-05	-9.626E-05	2.506E-05
12	3.00000	0.11437	0.781	99.258	-7.078	17.574
	(STRAIN)		-3.145E-05	6.309E-05	-3.899E-05	-5.038E-05
12	7.20000	0.11444	1.670	22.437	-13.587	13.693
	(STRAIN)		-1.409E-05	5.600E-05	-6.558E-05	-3.571E-05
12	15.50000	0.11449	4.425	22.476	-15.636	8.006
	(STRAIN)		1.944E-06	6.287E-05	-6.576E-05	-1.052E-05
12	23.00000	0.11450	7.196	36.088	-14.963	-1.530
	(STRAIN)		1.904E-06	2.791E-05	-1.804E-05	-2.522E-05
12	30.50000	0.11447	8.640	55.415	-52.974	8.130
	(STRAIN)		5.309E-06	4.741E-05	-5.014E-05	-7.043E-05

Anexo B4
GR12- 12.5cm Granular/ 15cm Solo-Cimento

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INPUT FILE NAME  -C:\KENPAVE\para tcc\granular 12.5\longitudinal\gnular 12
longitudinal.DAT

NUMBER OF PROBLEMS TO BE SOLVED =  1

TITLE -MOno G/SC

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
NUMBER OF PERIODS PER YEAR (NPY) =  2
NUMBER OF LOAD GROUPS (NLG) =  9
TOLERANCE FOR INTEGRATION (DEL) -- =  0.001
NUMBER OF LAYERS (NL)------------- =  4
NUMBER OF Z COORDINATES (NZ)------ =  6
LIMIT OF INTEGRATION CYCLES (ICL)- =  80
COMPUTING CODE (NSTD)------------- =  9
SYSTEM OF UNITS (NUNIT)------------=  1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m^3, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 3  12.5  15
POISSON'S RATIOS OF LAYERS (PR) ARE : 0.44  0.35  0.35  0.35
VERTICAL COORDINATES OF POINTS (ZC) ARE:  0  3  7.2  15.5  23  30.5
ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  4.000E+05
   3  1.500E+06   4  3.000E+04

FOR PERIOD NO. 2 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  2.500E+05
   3  3.000E+05   4  3.000E+04

LOAD GROUP NO. 1  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -87.500   0.000  2 -70.000   0.000
  3 -52.500   0.000  4 -35.000   0.000  5 -17.500   0.000  6   0.000   0.000
  7  17.500   0.000  8  35.000   0.000  9  52.500   0.000 10  70.000   0.000
 11  87.500   0.000 12 105.000   0.000

LOAD GROUP NO. 2  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -87.500   0.000  2 -70.000   0.000
  3 -52.500   0.000  4 -35.000   0.000  5 -17.500   0.000  6   0.000   0.000
  7  17.500   0.000  8  35.000   0.000  9  52.500   0.000 10  70.000   0.000
 11  87.500   0.000 12 105.000   0.000
```

```
LOAD GROUP NO. 3  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -87.500   0.000  2 -70.000   0.000
  3 -52.500   0.000  4 -35.000   0.000  5 -17.500   0.000  6   0.000   0.000
  7  17.500   0.000  8  35.000   0.000  9  52.500   0.000 10  70.000   0.000
 11  87.500   0.000 12 105.000   0.000

LOAD GROUP NO. 4  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  10
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -60.000   0.000  2 -30.000   0.000
  3   0.000   0.000  4  30.000   0.000  5  60.000   0.000  6  90.000   0.000
  7 120.000   0.000  8 150.000   0.000  9 180.000   0.000 10 210.000   0.000

LOAD GROUP NO. 5  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  10
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -60.000   0.000  2 -30.000   0.000
  3   0.000   0.000  4  30.000   0.000  5  60.000   0.000  6  90.000   0.000
  7 120.000   0.000  8 150.000   0.000  9 180.000   0.000 10 210.000   0.000

LOAD GROUP NO. 6  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  10
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -60.000   0.000  2 -30.000   0.000
  3   0.000   0.000  4  30.000   0.000  5  60.000   0.000  6  90.000   0.000
  7 120.000   0.000  8 150.000   0.000  9 180.000   0.000 10 210.000   0.000

LOAD GROUP NO. 7  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -30.000   0.000  2   0.000   0.000
  3  30.000   0.000  4  60.000   0.000  5  90.000   0.000  6 120.000   0.000
  7 150.000   0.000  8 180.000   0.000  9 210.000   0.000 10 240.000   0.000
 11 270.000   0.000 12 300.000   0.000

LOAD GROUP NO. 8  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
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CONTACT PRESSURE (CP)------------ = 600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 12
WHEEL SPACING ALONG X-AXIS (XW)------------------ = 120
WHEEL SPACING ALONG Y-AXIS (YW)------------------ = 35

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 -30.000 0.000 2 0.000 0.000
3 30.000 0.000 4 60.000 0.000 5 90.000 0.000 6 120.000 0.000
7 150.000 0.000 8 180.000 0.000 9 210.000 0.000 10 240.000 0.000
11 270.000 0.000 12 300.000 0.000

LOAD GROUP NO. 9 HAS 6 CONTACT AREAS
CONTACT RADIUS (CR)-------------- = 11
CONTACT PRESSURE (CP)------------ = 700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 12
WHEEL SPACING ALONG X-AXIS (XW)------------------ = 120
WHEEL SPACING ALONG Y-AXIS (YW)------------------ = 35

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 -30.000 0.000 2 0.000 0.000
3 30.000 0.000 4 60.000 0.000 5 90.000 0.000 6 120.000 0.000
7 150.000 0.000 8 180.000 0.000 9 210.000 0.000 10 240.000 0.000
11 270.000 0.000 12 300.000 0.000

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.04464	0.000	114.225	9.521	79.595
	(STRAIN)		-5.051E-05	5.001E-05	-5.051E-05	1.387E-05
1	3.00000	0.04181	0.134	69.648	-4.715	9.521
	(STRAIN)		-2.171E-05	4.502E-05	-2.637E-05	-2.307E-05
1	7.20000	0.04186	0.818	13.401	-8.226	9.006
	(STRAIN)		-9.647E-06	3.282E-05	-4.017E-05	-1.667E-05
1	15.50000	0.04190	2.346	11.906	-9.183	4.807
	(STRAIN)		1.330E-06	3.359E-05	-3.758E-05	-6.610E-06
1	23.00000	0.04189	3.785	18.686	-16.368	-2.079
	(STRAIN)		3.350E-06	1.676E-05	-1.479E-05	-1.712E-05
1	30.50000	0.04185	4.502	29.797	-47.505	4.267
	(STRAIN)		7.188E-06	2.995E-05	-3.962E-05	-4.572E-05
2	0.00000	0.05007	520.000	158.105	14.356	117.401
	(STRAIN)		-7.124E-05	6.675E-05	-7.124E-05	2.292E-05
2	3.00000	0.04776	0.308	103.315	-2.755	40.058
	(STRAIN)		-4.095E-05	5.793E-05	-4.389E-05	-1.410E-05
2	7.20000	0.04785	1.159	19.199	-10.926	17.411
	(STRAIN)		-1.856E-05	4.232E-05	-5.935E-05	-1.045E-05
2	15.50000	0.04793	3.282	19.311	-14.833	6.726
	(STRAIN)		1.274E-06	5.537E-05	-5.986E-05	-7.945E-06
2	23.00000	0.04790	5.342	20.944	-26.392	-9.086
	(STRAIN)		8.199E-06	2.224E-05	-2.036E-05	-2.402E-05
2	30.50000	0.04781	6.371	17.273	-73.733	5.538
	(STRAIN)		1.762E-05	2.743E-05	-5.448E-05	-6.430E-05
3	0.00000	0.05626	0.000	222.456	23.910	178.300
	(STRAIN)		-1.016E-04	8.899E-05	-1.016E-04	3.898E-05
3	3.00000	0.05439	0.311	151.893	-2.903	97.091
	(STRAIN)		-7.189E-05	7.363E-05	-7.497E-05	6.282E-06
3	7.20000	0.05456	1.243	31.494	-15.312	26.999
	(STRAIN)		-3.359E-05	6.851E-05	-8.946E-05	3.595E-06
3	15.50000	0.05471	3.733	30.417	-24.079	9.361

	(STRAIN)		-1.139E-06	8.892E-05	-9.500E-05	-8.738E-06
3	23.00000	0.05467	7.013	26.107	-41.643	-25.243
	(STRAIN)		1.583E-05	3.301E-05	-2.796E-05	-3.360E-05
3	30.50000	0.05448	8.960	9.611	-114.236	-12.194
	(STRAIN)		3.532E-05	3.591E-05	-7.555E-05	-9.137E-05
4	0.00000	0.06300	0.000	310.547	44.175	275.836
	(STRAIN)		-1.426E-04	1.132E-04	-1.426E-04	6.782E-05
4	3.00000	0.06139	-0.791	217.366	-3.813	185.317
	(STRAIN)		-1.178E-04	9.167E-05	-1.207E-04	4.383E-05
4	7.20000	0.06171	-1.990	52.671	-20.684	37.018
	(STRAIN)		-6.710E-05	1.174E-04	-1.302E-04	3.701E-05
4	15.50000	0.06208	0.170	48.490	-40.954	12.668
	(STRAIN)		-1.710E-05	1.460E-04	-1.559E-04	-2.035E-07
4	23.00000	0.06204	7.653	39.739	-66.250	-60.129
	(STRAIN)		2.710E-05	5.598E-05	-3.941E-05	-4.631E-05
4	30.50000	0.06168	12.726	12.955	-181.910	-78.035
	(STRAIN)		6.908E-05	6.929E-05	-1.061E-04	-1.302E-04
5	0.00000	0.07103	0.000	485.938	129.930	467.554
	(STRAIN)		-1.931E-04	1.487E-04	-1.931E-04	1.239E-04
5	3.00000	0.06907	11.101	456.705	7.390	296.090
	(STRAIN)		-2.123E-04	2.154E-04	-2.159E-04	5.922E-05
5	7.20000	0.06948	34.136	150.523	-6.243	57.651
	(STRAIN)		-6.148E-05	3.313E-04	-1.978E-04	6.796E-06
5	15.50000	0.06954	43.588	137.631	-47.515	40.463
	(STRAIN)		3.285E-05	3.502E-04	-2.746E-04	1.389E-05
5	23.00000	0.06937	29.917	77.559	-125.405	-96.250
	(STRAIN)		6.055E-05	1.034E-04	-7.924E-05	-6.398E-05
5	30.50000	0.06862	18.520	18.604	-311.944	-250.271
	(STRAIN)		1.435E-04	1.436E-04	-1.539E-04	-1.814E-04
6	0.00000	0.08464	0.000	1535.928	757.754	1515.457
	(STRAIN)		-3.899E-04	3.571E-04	-3.899E-04	3.375E-04
6	3.00000	0.08281	512.293	513.262	302.179	318.173
	(STRAIN)		1.593E-04	1.602E-04	-4.243E-05	-4.150E-05
6	7.20000	0.07920	423.839	425.179	130.147	131.051
	(STRAIN)		8.299E-04	8.344E-04	-1.613E-04	-1.583E-04
6	15.50000	0.07401	234.203	242.003	118.958	130.143
	(STRAIN)		3.607E-04	3.870E-04	-2.823E-05	-1.907E-06
6	23.00000	0.07323	89.758	95.172	-138.549	-116.495
	(STRAIN)		1.181E-04	1.230E-04	-8.739E-05	-8.739E-05
6	30.50000	0.07207	22.828	22.847	-459.930	-381.405
	(STRAIN)		2.115E-04	2.115E-04	-2.230E-04	-2.230E-04
7	0.00000	0.07103	0.000	485.938	129.930	467.554
	(STRAIN)		-1.931E-04	1.487E-04	-1.931E-04	1.239E-04
7	3.00000	0.06907	11.101	456.705	7.390	296.090
	(STRAIN)		-2.123E-04	2.154E-04	-2.159E-04	5.922E-05
7	7.20000	0.06948	34.136	150.523	-6.243	57.651
	(STRAIN)		-6.148E-05	3.313E-04	-1.978E-04	6.796E-06
7	15.50000	0.06954	43.588	137.631	-47.515	40.463
	(STRAIN)		3.285E-05	3.502E-04	-2.746E-04	1.389E-05
7	23.00000	0.06937	29.917	77.559	-125.405	-96.250
	(STRAIN)		6.055E-05	1.034E-04	-7.924E-05	-6.398E-05
7	30.50000	0.06862	18.520	18.604	-311.944	-250.271
	(STRAIN)		1.435E-04	1.436E-04	-1.539E-04	-1.814E-04
8	0.00000	0.06300	0.000	310.547	44.175	275.836
	(STRAIN)		-1.426E-04	1.132E-04	-1.426E-04	6.782E-05
8	3.00000	0.06139	-0.791	217.366	-3.813	185.317
	(STRAIN)		-1.178E-04	9.167E-05	-1.207E-04	4.383E-05
8	7.20000	0.06171	-1.990	52.671	-20.684	37.018
	(STRAIN)		-6.710E-05	1.174E-04	-1.302E-04	3.701E-05

8	15.50000	0.06208	0.170	48.490	-40.954	12.668
	(STRAIN)		-1.710E-05	1.460E-04	-1.559E-04	-2.035E-07
8	23.00000	0.06204	7.653	39.739	-66.250	-60.129
	(STRAIN)		2.710E-05	5.598E-05	-3.941E-05	-4.631E-05
8	30.50000	0.06168	12.726	12.955	-181.910	-78.035
	(STRAIN)		6.908E-05	6.929E-05	-1.061E-04	-1.302E-04
9	0.00000	0.05626	0.000	222.456	23.910	178.300
	(STRAIN)		-1.016E-04	8.899E-05	-1.016E-04	3.898E-05
9	3.00000	0.05439	0.311	151.893	-2.903	97.091
	(STRAIN)		-7.189E-05	7.363E-05	-7.497E-05	6.282E-06
9	7.20000	0.05456	1.243	31.494	-15.312	26.999
	(STRAIN)		-3.359E-05	6.851E-05	-8.946E-05	3.595E-06
9	15.50000	0.05471	3.733	30.417	-24.079	9.361
	(STRAIN)		-1.139E-06	8.892E-05	-9.500E-05	-8.738E-06
9	23.00000	0.05467	7.013	26.107	-41.643	-25.243
	(STRAIN)		1.583E-05	3.301E-05	-2.796E-05	-3.360E-05
9	30.50000	0.05448	8.960	9.611	-114.236	-12.194
	(STRAIN)		3.532E-05	3.591E-05	-7.555E-05	-9.137E-05
10	0.00000	0.05007	0.000	158.105	14.356	117.401
	(STRAIN)		-7.124E-05	6.675E-05	-7.124E-05	2.292E-05
10	3.00000	0.04776	0.308	103.315	-2.755	40.058
	(STRAIN)		-4.095E-05	5.793E-05	-4.389E-05	-1.410E-05
10	7.20000	0.04785	1.159	19.199	-10.926	17.411
	(STRAIN)		-1.856E-05	4.232E-05	-5.935E-05	-1.045E-05
10	15.50000	0.04793	3.282	19.311	-14.833	6.726
	(STRAIN)		1.274E-06	5.537E-05	-5.986E-05	-7.945E-06
10	23.00000	0.04790	5.342	20.944	-26.392	-9.086
	(STRAIN)		8.199E-06	2.224E-05	-2.036E-05	-2.402E-05
10	30.50000	0.04781	6.371	17.273	-73.733	5.538
	(STRAIN)		1.762E-05	2.743E-05	-5.448E-05	-6.430E-05
11	0.00000	0.04464	0.000	114.225	9.521	79.595
	(STRAIN)		-5.051E-05	5.001E-05	-5.051E-05	1.387E-05
11	3.00000	0.04181	0.134	69.648	-4.715	9.521
	(STRAIN)		-2.171E-05	4.502E-05	-2.637E-05	-2.307E-05
11	7.20000	0.04186	0.818	13.401	-8.226	9.006
	(STRAIN)		-9.647E-06	3.282E-05	-4.017E-05	-1.667E-05
11	15.50000	0.04190	2.346	11.906	-9.183	4.807
	(STRAIN)		1.330E-06	3.359E-05	-3.758E-05	-6.610E-06
11	23.00000	0.04189	3.785	18.686	-16.368	-2.079
	(STRAIN)		3.350E-06	1.676E-05	-1.479E-05	-1.712E-05
11	30.50000	0.04185	4.502	29.797	-47.505	4.267
	(STRAIN)		7.188E-06	2.995E-05	-3.962E-05	-4.572E-05
12	0.00000	0.03997	0.000	83.979	6.753	55.632
	(STRAIN)		-3.645E-05	3.769E-05	-3.645E-05	8.700E-06
12	3.00000	0.03662	0.258	46.304	-14.880	1.337
	(STRAIN)		-9.362E-06	3.484E-05	-2.390E-05	-2.675E-05
12	7.20000	0.03664	0.567	9.359	-6.638	4.277
	(STRAIN)		-4.212E-06	2.546E-05	-2.853E-05	-1.879E-05
12	15.50000	0.03665	1.629	7.152	-5.637	3.491
	(STRAIN)		1.116E-06	1.976E-05	-2.340E-05	-5.559E-06
12	23.00000	0.03665	2.630	17.582	-9.760	0.401
	(STRAIN)		4.484E-07	1.391E-05	-1.070E-05	-1.220E-05
12	30.50000	0.03665	3.145	34.824	-30.243	3.023
	(STRAIN)		1.056E-06	2.957E-05	-2.899E-05	-3.284E-05

PERIOD NO. 1 LOAD GROUP NO. 2

POINT	VERTICAL	VERTICAL	VERTICAL	MAJOR PRINCIPAL	MINOR PRINCIAL	INTERMEDIATE P. STRESS

NO.	COORDINATE	DISP.	STRESS (STRAIN)	STRESS (STRAIN)	STRESS (STRAIN)	(HORIZONTAL P. STRAIN)
1	0.00000	0.05151	0.000	131.798	10.986	91.840
	(STRAIN)		-5.828E-05	5.770E-05	-5.828E-05	1.600E-05
1	3.00000	0.04824	0.155	80.363	-5.441	10.986
	(STRAIN)		-2.505E-05	5.195E-05	-3.042E-05	-2.662E-05
1	7.20000	0.04830	0.944	15.462	-9.491	10.392
	(STRAIN)		-1.113E-05	3.787E-05	-4.635E-05	-1.923E-05
1	15.50000	0.04834	2.707	13.737	-10.596	5.547
	(STRAIN)		1.534E-06	3.876E-05	-4.336E-05	-7.626E-06
1	23.00000	0.04833	4.367	21.560	-18.886	-2.398
	(STRAIN)		3.866E-06	1.934E-05	-1.706E-05	-1.975E-05
1	30.50000	0.04829	5.195	34.381	-54.813	4.923
	(STRAIN)		8.294E-06	3.456E-05	-4.571E-05	-5.275E-05
2	0.00000	0.05777	600.000	182.429	16.565	135.463
	(STRAIN)		-8.221E-05	7.702E-05	-8.221E-05	2.645E-05
2	3.00000	0.05510	0.355	119.209	-3.179	46.221
	(STRAIN)		-4.725E-05	6.685E-05	-5.065E-05	-1.627E-05
2	7.20000	0.05522	1.337	22.153	-12.607	20.090
	(STRAIN)		-2.142E-05	4.883E-05	-6.848E-05	-1.206E-05
2	15.50000	0.05530	3.787	22.282	-17.115	7.761
	(STRAIN)		1.470E-06	6.389E-05	-6.907E-05	-9.167E-06
2	23.00000	0.05527	6.163	24.166	-30.453	-10.484
	(STRAIN)		9.460E-06	2.566E-05	-2.349E-05	-2.772E-05
2	30.50000	0.05516	7.351	19.930	-85.076	6.390
	(STRAIN)		2.033E-05	3.165E-05	-6.286E-05	-7.419E-05
3	0.00000	0.06492	0.000	256.679	27.588	205.731
	(STRAIN)		-1.172E-04	1.027E-04	-1.172E-04	4.497E-05
3	3.00000	0.06276	0.358	175.261	-3.349	112.028
	(STRAIN)		-8.295E-05	8.496E-05	-8.650E-05	7.248E-06
3	7.20000	0.06296	1.435	36.339	-17.667	31.152
	(STRAIN)		-3.875E-05	7.905E-05	-1.032E-04	4.148E-06
3	15.50000	0.06313	4.307	35.097	-27.783	10.801
	(STRAIN)		-1.315E-06	1.026E-04	-1.096E-04	-1.008E-05
3	23.00000	0.06308	8.091	30.123	-48.050	-29.127
	(STRAIN)		1.826E-05	3.809E-05	-3.227E-05	-3.877E-05
3	30.50000	0.06286	10.338	11.090	-131.810	-14.070
	(STRAIN)		4.076E-05	4.143E-05	-8.718E-05	-1.054E-04
4	0.00000	0.07269	0.000	358.324	50.972	318.272
	(STRAIN)		-1.645E-04	1.306E-04	-1.645E-04	7.825E-05
4	3.00000	0.07084	-0.913	250.806	-4.400	213.827
	(STRAIN)		-1.359E-04	1.058E-04	-1.392E-04	5.058E-05
4	7.20000	0.07120	-2.296	60.774	-23.866	42.714
	(STRAIN)		-7.742E-05	1.354E-04	-1.502E-04	4.271E-05
4	15.50000	0.07163	0.196	55.950	-47.254	14.617
	(STRAIN)		-1.974E-05	1.684E-04	-1.799E-04	-2.348E-07
4	23.00000	0.07159	8.830	45.852	-76.442	-69.380
	(STRAIN)		3.127E-05	6.459E-05	-4.547E-05	-5.343E-05
4	30.50000	0.07117	14.684	14.948	-209.896	-90.040
	(STRAIN)		7.971E-05	7.995E-05	-1.224E-04	-1.502E-04
5	0.00000	0.08196	0.000	560.694	149.919	539.489
	(STRAIN)		-2.228E-04	1.716E-04	-2.228E-04	1.429E-04
5	3.00000	0.07969	12.809	526.968	8.527	341.642
	(STRAIN)		-2.450E-04	2.486E-04	-2.491E-04	6.833E-05
5	7.20000	0.08017	39.388	173.680	-7.203	66.520
	(STRAIN)		-7.094E-05	3.823E-04	-2.282E-04	7.842E-06
5	15.50000	0.08024	50.294	158.805	-54.825	46.688
	(STRAIN)		3.791E-05	4.041E-04	-3.169E-04	1.603E-05
5	23.00000	0.08005	34.519	89.491	-144.698	-111.058

	(STRAIN)		6.986E-05	1.193E-04	-9.143E-05	-7.383E-05
5	30.50000	0.07918	21.369	21.466	-359.936	-288.774
	(STRAIN)		1.656E-04	1.657E-04	-1.776E-04	-2.093E-04
6	0.00000	0.09766	0.000	1772.174	874.331	1748.655
	(STRAIN)		-4.499E-04	4.120E-04	-4.499E-04	3.894E-04
6	3.00000	0.09555	591.107	592.225	348.669	367.121
	(STRAIN)		1.838E-04	1.849E-04	-4.896E-05	-4.789E-05
6	7.20000	0.09139	489.045	490.591	150.168	151.214
	(STRAIN)		9.576E-04	9.628E-04	-1.862E-04	-1.826E-04
6	15.50000	0.08540	270.235	279.235	137.260	150.164
	(STRAIN)		4.162E-04	4.466E-04	-3.258E-05	-2.201E-06
6	23.00000	0.08450	103.567	109.814	-159.864	-134.418
	(STRAIN)		1.363E-04	1.419E-04	-1.008E-04	-1.008E-04
6	30.50000	0.08316	26.340	26.362	-530.689	-440.083
	(STRAIN)		2.441E-04	2.441E-04	-2.573E-04	-2.573E-04
7	0.00000	0.08196	0.000	560.694	149.919	539.489
	(STRAIN)		-2.228E-04	1.716E-04	-2.228E-04	1.429E-04
7	3.00000	0.07969	12.809	526.968	8.527	341.642
	(STRAIN)		-2.450E-04	2.486E-04	-2.491E-04	6.833E-05
7	7.20000	0.08017	39.388	173.680	-7.203	66.520
	(STRAIN)		-7.094E-05	3.823E-04	-2.282E-04	7.842E-06
7	15.50000	0.08024	50.294	158.805	-54.825	46.688
	(STRAIN)		3.791E-05	4.041E-04	-3.169E-04	1.603E-05
7	23.00000	0.08005	34.519	89.491	-144.698	-111.058
	(STRAIN)		6.986E-05	1.193E-04	-9.143E-05	-7.383E-05
7	30.50000	0.07918	21.369	21.466	-359.936	-288.774
	(STRAIN)		1.656E-04	1.657E-04	-1.776E-04	-2.093E-04
8	0.00000	0.07269	0.000	358.324	50.972	318.272
	(STRAIN)		-1.645E-04	1.306E-04	-1.645E-04	7.825E-05
8	3.00000	0.07084	-0.913	250.806	-4.400	213.827
	(STRAIN)		-1.359E-04	1.058E-04	-1.392E-04	5.058E-05
8	7.20000	0.07120	-2.296	60.774	-23.866	42.714
	(STRAIN)		-7.742E-05	1.354E-04	-1.502E-04	4.271E-05
8	15.50000	0.07163	0.196	55.950	-47.254	14.617
	(STRAIN)		-1.974E-05	1.684E-04	-1.799E-04	-2.348E-07
8	23.00000	0.07159	8.830	45.852	-76.442	-69.380
	(STRAIN)		3.127E-05	6.459E-05	-4.547E-05	-5.343E-05
8	30.50000	0.07117	14.684	14.948	-209.896	-90.040
	(STRAIN)		7.971E-05	7.995E-05	-1.224E-04	-1.502E-04
9	0.00000	0.06492	0.000	256.679	27.588	205.731
	(STRAIN)		-1.172E-04	1.027E-04	-1.172E-04	4.497E-05
9	3.00000	0.06276	0.358	175.261	-3.349	112.028
	(STRAIN)		-8.295E-05	8.496E-05	-8.650E-05	7.248E-06
9	7.20000	0.06296	1.435	36.339	-17.667	31.152
	(STRAIN)		-3.875E-05	7.905E-05	-1.032E-04	4.148E-06
9	15.50000	0.06313	4.307	35.097	-27.783	10.801
	(STRAIN)		-1.315E-06	1.026E-04	-1.096E-04	-1.008E-05
9	23.00000	0.06308	8.091	30.123	-48.050	-29.127
	(STRAIN)		1.826E-05	3.809E-05	-3.227E-05	-3.877E-05
9	30.50000	0.06286	10.338	11.090	-131.810	-14.070
	(STRAIN)		4.076E-05	4.143E-05	-8.718E-05	-1.054E-04
10	0.00000	0.05777	0.000	182.429	16.565	135.463
	(STRAIN)		-8.221E-05	7.702E-05	-8.221E-05	2.645E-05
10	3.00000	0.05510	0.355	119.209	-3.179	46.221
	(STRAIN)		-4.725E-05	6.685E-05	-5.065E-05	-1.627E-05
10	7.20000	0.05522	1.337	22.153	-12.607	20.090
	(STRAIN)		-2.142E-05	4.883E-05	-6.848E-05	-1.206E-05
10	15.50000	0.05530	3.787	22.282	-17.115	7.761
	(STRAIN)		1.470E-06	6.389E-05	-6.907E-05	-9.167E-06

10	23.00000	0.05527	6.163	24.166	-30.453	-10.484
	(STRAIN)		9.460E-06	2.566E-05	-2.349E-05	-2.772E-05
10	30.50000	0.05516	7.351	19.930	-85.076	6.390
	(STRAIN)		2.033E-05	3.165E-05	-6.286E-05	-7.419E-05
11	0.00000	0.05151	0.000	131.798	10.986	91.840
	(STRAIN)		-5.828E-05	5.770E-05	-5.828E-05	1.600E-05
11	3.00000	0.04824	0.155	80.363	-5.441	10.986
	(STRAIN)		-2.505E-05	5.195E-05	-3.042E-05	-2.662E-05
11	7.20000	0.04830	0.944	15.462	-9.491	10.392
	(STRAIN)		-1.113E-05	3.787E-05	-4.635E-05	-1.923E-05
11	15.50000	0.04834	2.707	13.737	-10.596	5.547
	(STRAIN)		1.534E-06	3.876E-05	-4.336E-05	-7.626E-06
11	23.00000	0.04833	4.367	21.560	-18.886	-2.398
	(STRAIN)		3.866E-06	1.934E-05	-1.706E-05	-1.975E-05
11	30.50000	0.04829	5.195	34.381	-54.813	4.923
	(STRAIN)		8.294E-06	3.456E-05	-4.571E-05	-5.275E-05
12	0.00000	0.04612	0.000	96.899	7.792	64.190
	(STRAIN)		-4.206E-05	4.348E-05	-4.206E-05	1.004E-05
12	3.00000	0.04225	0.298	53.428	-17.170	1.543
	(STRAIN)		-1.080E-05	4.020E-05	-2.757E-05	-3.087E-05
12	7.20000	0.04227	0.654	10.799	-7.659	4.936
	(STRAIN)		-4.860E-06	2.938E-05	-3.291E-05	-2.168E-05
12	15.50000	0.04229	1.879	8.252	-6.504	4.028
	(STRAIN)		1.287E-06	2.280E-05	-2.700E-05	-6.415E-06
12	23.00000	0.04229	3.035	20.287	-11.262	0.463
	(STRAIN)		5.174E-07	1.604E-05	-1.235E-05	-1.408E-05
12	30.50000	0.04228	3.629	40.181	-34.896	3.488
	(STRAIN)		1.219E-06	3.412E-05	-3.345E-05	-3.790E-05

PERIOD NO. 1 LOAD GROUP NO. 3

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.06010	0.000	153.764	12.817	107.147
	(STRAIN)		-6.799E-05	6.732E-05	-6.799E-05	1.867E-05
1	3.00000	0.05628	0.181	93.756	-6.347	12.817
	(STRAIN)		-2.923E-05	6.061E-05	-3.549E-05	-3.105E-05
1	7.20000	0.05635	1.102	18.040	-11.073	12.124
	(STRAIN)		-1.299E-05	4.418E-05	-5.408E-05	-2.244E-05
1	15.50000	0.05640	3.158	16.027	-12.362	6.471
	(STRAIN)		1.790E-06	4.522E-05	-5.059E-05	-8.897E-06
1	23.00000	0.05639	5.095	25.154	-22.034	-2.798
	(STRAIN)		4.510E-06	2.256E-05	-1.991E-05	-2.305E-05
1	30.50000	0.05634	6.061	40.111	-63.949	5.744
	(STRAIN)		9.676E-06	4.032E-05	-5.333E-05	-6.154E-05
2	0.00000	0.06740	700.000	212.833	19.325	158.040
	(STRAIN)		-9.591E-05	8.986E-05	-9.591E-05	3.085E-05
2	3.00000	0.06429	0.414	139.078	-3.709	53.924
	(STRAIN)		-5.513E-05	7.799E-05	-5.909E-05	-1.898E-05
2	7.20000	0.06442	1.560	25.845	-14.708	23.438
	(STRAIN)		-2.499E-05	5.697E-05	-7.989E-05	-1.407E-05
2	15.50000	0.06452	4.419	25.996	-19.967	9.054
	(STRAIN)		1.715E-06	7.454E-05	-8.059E-05	-1.070E-05
2	23.00000	0.06449	7.191	28.193	-35.528	-12.232
	(STRAIN)		1.104E-05	2.994E-05	-2.741E-05	-3.234E-05
2	30.50000	0.06435	8.576	23.252	-99.255	7.454
	(STRAIN)		2.371E-05	3.692E-05	-7.334E-05	-8.655E-05

3	0.00000	0.07574	0.000	299.459	32.187	240.019
	(STRAIN)		-1.368E-04	1.198E-04	-1.368E-04	5.247E-05
3	3.00000	0.07322	0.418	204.471	-3.907	130.699
	(STRAIN)		-9.677E-05	9.912E-05	-1.009E-04	8.456E-06
3	7.20000	0.07345	1.674	42.396	-20.612	36.345
	(STRAIN)		-4.521E-05	9.222E-05	-1.204E-04	4.840E-06
3	15.50000	0.07365	5.025	40.946	-32.414	12.601
	(STRAIN)		-1.534E-06	1.197E-04	-1.279E-04	-1.176E-05
3	23.00000	0.07360	9.440	35.144	-56.058	-33.981
	(STRAIN)		2.131E-05	4.444E-05	-3.764E-05	-4.523E-05
3	30.50000	0.07333	12.061	12.938	-153.779	-16.415
	(STRAIN)		4.755E-05	4.834E-05	-1.017E-04	-1.230E-04
4	0.00000	0.08480	0.000	418.044	59.467	371.317
	(STRAIN)		-1.919E-04	1.523E-04	-1.919E-04	9.130E-05
4	3.00000	0.08264	-1.065	292.607	-5.133	249.465
	(STRAIN)		-1.585E-04	1.234E-04	-1.624E-04	5.900E-05
4	7.20000	0.08307	-2.679	70.903	-27.843	49.832
	(STRAIN)		-9.032E-05	1.580E-04	-1.753E-04	4.982E-05
4	15.50000	0.08357	0.229	65.274	-55.130	17.053
	(STRAIN)		-2.303E-05	1.965E-04	-2.099E-04	-2.739E-07
4	23.00000	0.08352	10.301	53.494	-89.183	-80.943
	(STRAIN)		3.649E-05	7.536E-05	-5.305E-05	-6.234E-05
4	30.50000	0.08303	17.131	17.439	-244.879	-105.047
	(STRAIN)		9.300E-05	9.328E-05	-1.428E-04	-1.752E-04
5	0.00000	0.09562	0.000	654.145	174.905	629.402
	(STRAIN)		-2.599E-04	2.002E-04	-2.599E-04	1.667E-04
5	3.00000	0.09298	14.943	614.796	9.949	398.582
	(STRAIN)		-2.858E-04	2.900E-04	-2.906E-04	7.972E-05
5	7.20000	0.09353	45.952	202.627	-8.404	77.607
	(STRAIN)		-8.276E-05	4.460E-04	-2.662E-04	9.149E-06
5	15.50000	0.09362	58.676	185.273	-63.963	54.470
	(STRAIN)		4.422E-05	4.715E-04	-3.697E-04	1.870E-05
5	23.00000	0.09339	40.272	104.406	-168.815	-129.567
	(STRAIN)		8.151E-05	1.392E-04	-1.067E-04	-8.613E-05
5	30.50000	0.09237	24.931	25.044	-419.925	-336.903
	(STRAIN)		1.932E-04	1.933E-04	-2.072E-04	-2.441E-04
6	0.00000	0.11394	0.000	2067.554	1020.054	2040.079
	(STRAIN)		-5.249E-04	4.807E-04	-5.249E-04	4.544E-04
6	3.00000	0.11147	689.625	690.929	406.780	428.309
	(STRAIN)		2.144E-04	2.157E-04	-5.712E-05	-5.587E-05
6	7.20000	0.10662	570.553	572.357	175.202	176.411
	(STRAIN)		1.117E-03	1.123E-03	-2.172E-04	-2.131E-04
6	15.50000	0.09963	315.274	325.774	160.137	175.192
	(STRAIN)		4.856E-04	5.210E-04	-3.800E-05	-2.568E-06
6	23.00000	0.09858	120.828	128.116	-186.508	-156.821
	(STRAIN)		1.590E-04	1.655E-04	-1.176E-04	-1.176E-04
6	30.50000	0.09702	30.730	30.755	-619.136	-513.430
	(STRAIN)		2.847E-04	2.848E-04	-3.001E-04	-3.001E-04
7	0.00000	0.09562	0.000	654.145	174.905	629.402
	(STRAIN)		-2.599E-04	2.002E-04	-2.599E-04	1.667E-04
7	3.00000	0.09298	14.943	614.796	9.949	398.582
	(STRAIN)		-2.858E-04	2.900E-04	-2.906E-04	7.972E-05
7	7.20000	0.09353	45.952	202.627	-8.404	77.607
	(STRAIN)		-8.276E-05	4.460E-04	-2.662E-04	9.149E-06
7	15.50000	0.09362	58.676	185.273	-63.963	54.470
	(STRAIN)		4.422E-05	4.715E-04	-3.697E-04	1.870E-05
7	23.00000	0.09339	40.272	104.406	-168.815	-129.567
	(STRAIN)		8.151E-05	1.392E-04	-1.067E-04	-8.613E-05
7	30.50000	0.09237	24.931	25.044	-419.925	-336.903

	(STRAIN)		1.932E-04	1.933E-04	-2.072E-04	-2.441E-04
8	0.00000	0.08480	0.000	418.044	59.467	371.317
	(STRAIN)		-1.919E-04	1.523E-04	-1.919E-04	9.130E-05
8	3.00000	0.08264	-1.065	292.607	-5.133	249.465
	(STRAIN)		-1.585E-04	1.234E-04	-1.624E-04	5.900E-05
8	7.20000	0.08307	-2.679	70.903	-27.843	49.832
	(STRAIN)		-9.032E-05	1.580E-04	-1.753E-04	4.982E-05
8	15.50000	0.08357	0.229	65.274	-55.130	17.053
	(STRAIN)		-2.303E-05	1.965E-04	-2.099E-04	-2.739E-07
8	23.00000	0.08352	10.301	53.494	-89.183	-80.943
	(STRAIN)		3.649E-05	7.536E-05	-5.305E-05	-6.234E-05
8	30.50000	0.08303	17.131	17.439	-244.879	-105.047
	(STRAIN)		9.300E-05	9.328E-05	-1.428E-04	-1.752E-04
9	0.00000	0.07574	0.000	299.459	32.187	240.019
	(STRAIN)		-1.368E-04	1.198E-04	-1.368E-04	5.247E-05
9	3.00000	0.07322	0.418	204.471	-3.907	130.699
	(STRAIN)		-9.677E-05	9.912E-05	-1.009E-04	8.456E-06
9	7.20000	0.07345	1.674	42.396	-20.612	36.345
	(STRAIN)		-4.521E-05	9.222E-05	-1.204E-04	4.840E-06
9	15.50000	0.07365	5.025	40.946	-32.414	12.601
	(STRAIN)		-1.534E-06	1.197E-04	-1.279E-04	-1.176E-05
9	23.00000	0.07360	9.440	35.144	-56.058	-33.981
	(STRAIN)		2.131E-05	4.444E-05	-3.764E-05	-4.523E-05
9	30.50000	0.07333	12.061	12.938	-153.779	-16.415
	(STRAIN)		4.755E-05	4.834E-05	-1.017E-04	-1.230E-04
10	0.00000	0.06740	0.000	212.833	19.325	158.040
	(STRAIN)		-9.591E-05	8.986E-05	-9.591E-05	3.085E-05
10	3.00000	0.06429	0.414	139.078	-3.709	53.924
	(STRAIN)		-5.513E-05	7.799E-05	-5.909E-05	-1.898E-05
10	7.20000	0.06442	1.560	25.845	-14.708	23.438
	(STRAIN)		-2.499E-05	5.697E-05	-7.989E-05	-1.407E-05
10	15.50000	0.06452	4.419	25.996	-19.967	9.054
	(STRAIN)		1.715E-06	7.454E-05	-8.059E-05	-1.070E-05
10	23.00000	0.06449	7.191	28.193	-35.528	-12.232
	(STRAIN)		1.104E-05	2.994E-05	-2.741E-05	-3.234E-05
10	30.50000	0.06435	8.576	23.252	-99.255	7.454
	(STRAIN)		2.371E-05	3.692E-05	-7.334E-05	-8.655E-05
11	0.00000	0.06010	0.000	153.764	12.817	107.147
	(STRAIN)		-6.799E-05	6.732E-05	-6.799E-05	1.867E-05
11	3.00000	0.05628	0.181	93.756	-6.347	12.817
	(STRAIN)		-2.923E-05	6.061E-05	-3.549E-05	-3.105E-05
11	7.20000	0.05635	1.102	18.040	-11.073	12.124
	(STRAIN)		-1.299E-05	4.418E-05	-5.408E-05	-2.244E-05
11	15.50000	0.05640	3.158	16.027	-12.362	6.471
	(STRAIN)		1.790E-06	4.522E-05	-5.059E-05	-8.897E-06
11	23.00000	0.05639	5.095	25.154	-22.034	-2.798
	(STRAIN)		4.510E-06	2.256E-05	-1.991E-05	-2.305E-05
11	30.50000	0.05634	6.061	40.111	-63.949	5.744
	(STRAIN)		9.676E-06	4.032E-05	-5.333E-05	-6.154E-05
12	0.00000	0.05381	0.000	113.049	9.091	74.889
	(STRAIN)		-4.907E-05	5.073E-05	-4.907E-05	1.171E-05
12	3.00000	0.04929	0.348	62.333	-20.031	1.800
	(STRAIN)		-1.260E-05	4.690E-05	-3.217E-05	-3.602E-05
12	7.20000	0.04932	0.763	12.599	-8.935	5.758
	(STRAIN)		-5.670E-06	3.428E-05	-3.840E-05	-2.530E-05
12	15.50000	0.04934	2.192	9.627	-7.588	4.699
	(STRAIN)		1.502E-06	2.660E-05	-3.151E-05	-7.484E-06
12	23.00000	0.04934	3.541	23.668	-13.139	0.540
	(STRAIN)		6.036E-07	1.872E-05	-1.441E-05	-1.642E-05

12	30.50000	0.04933	4.233	46.878	-40.712	4.070
	(STRAIN)		1.422E-06	3.980E-05	-3.903E-05	-4.421E-05

PERIOD NO. 1 LOAD GROUP NO. 4

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.07548	0.000	205.057	21.151	128.483
	(STRAIN)		-8.374E-05	9.281E-05	-8.374E-05	1.262E-05
1	3.00000	0.07317	0.320	136.385	-4.158	47.849
	(STRAIN)		-5.252E-05	7.811E-05	-5.681E-05	-2.135E-05
1	7.20000	0.07330	1.405	25.472	-14.965	22.368
	(STRAIN)		-2.402E-05	5.720E-05	-7.927E-05	-1.591E-05
1	15.50000	0.07340	4.017	25.255	-19.840	9.250
	(STRAIN)		7.256E-07	7.240E-05	-7.979E-05	-1.110E-05
1	23.00000	0.07338	6.789	29.487	-33.609	-11.198
	(STRAIN)		9.685E-06	3.011E-05	-2.667E-05	-3.138E-05
1	30.50000	0.07326	8.285	28.699	-96.909	7.451
	(STRAIN)		2.163E-05	4.001E-05	-7.304E-05	-8.594E-05
2	0.00000	0.09602	520.000	387.824	59.938	342.968
	(STRAIN)		-1.744E-04	1.404E-04	-1.744E-04	8.479E-05
2	3.00000	0.08980	-1.885	250.336	-4.867	199.669
	(STRAIN)		-1.324E-04	1.097E-04	-1.352E-04	4.339E-05
2	7.20000	0.09017	-3.391	60.317	-23.141	44.268
	(STRAIN)		-8.271E-05	1.323E-04	-1.494E-04	4.569E-05
2	15.50000	0.09065	0.440	60.813	-49.101	16.402
	(STRAIN)		-2.311E-05	1.806E-04	-1.903E-04	4.373E-06
2	23.00000	0.09063	9.766	54.144	-74.844	-69.520
	(STRAIN)		2.984E-05	6.978E-05	-4.631E-05	-5.445E-05
2	30.50000	0.09021	15.310	15.654	-216.594	-84.295
	(STRAIN)		8.033E-05	8.064E-05	-1.284E-04	-1.546E-04
3	0.00000	0.12116	0.000	1582.719	762.985	1576.077
	(STRAIN)		-4.179E-04	3.690E-04	-4.179E-04	3.596E-04
3	3.00000	0.11555	512.470	513.678	296.184	335.099
	(STRAIN)		1.561E-04	1.573E-04	-5.152E-05	-5.501E-05
3	7.20000	0.11195	424.249	425.709	126.759	137.044
	(STRAIN)		8.285E-04	8.334E-04	-1.755E-04	-1.770E-04
3	15.50000	0.10676	235.380	243.652	121.012	129.956
	(STRAIN)		3.616E-04	3.895E-04	-2.438E-05	1.778E-06
3	23.00000	0.10599	91.660	97.118	-125.057	-120.212
	(STRAIN)		1.171E-04	1.220E-04	-7.798E-05	-7.943E-05
3	30.50000	0.10484	25.114	25.141	-427.740	-398.498
	(STRAIN)		2.095E-04	2.095E-04	-1.980E-04	-2.025E-04
4	0.00000	0.10907	0.000	449.489	65.573	399.065
	(STRAIN)		-2.052E-04	1.634E-04	-2.052E-04	1.114E-04
4	3.00000	0.10440	-1.548	290.797	-2.968	233.131
	(STRAIN)		-1.543E-04	1.264E-04	-1.557E-04	6.955E-05
4	7.20000	0.10482	-2.802	59.897	-15.010	50.279
	(STRAIN)		-9.273E-05	1.189E-04	-1.339E-04	7.497E-05
4	15.50000	0.10534	2.082	52.614	-37.600	18.479
	(STRAIN)		-2.228E-05	1.483E-04	-1.562E-04	1.059E-05
4	23.00000	0.10530	12.409	45.269	-86.238	-61.141
	(STRAIN)		3.499E-05	6.457E-05	-5.379E-05	-5.425E-05
4	30.50000	0.10482	18.432	18.497	-241.216	-96.417
	(STRAIN)		9.105E-05	9.111E-05	-1.426E-04	-1.511E-04
5	0.00000	0.10703	0.000	378.238	37.847	302.423
	(STRAIN)		-1.744E-04	1.523E-04	-1.744E-04	7.956E-05

5	3.00000	0.10295	0.700	249.268	0.529	140.612
	(STRAIN)		-1.138E-04	1.248E-04	-1.140E-04	2.047E-05
5	7.20000	0.10322	2.637	46.559	1.078	22.121
	(STRAIN)		-5.214E-05	9.610E-05	-5.740E-05	1.362E-05
5	15.50000	0.10343	7.496	22.375	0.729	4.482
	(STRAIN)		1.163E-06	5.138E-05	-2.168E-05	-9.010E-06
5	23.00000	0.10337	12.704	13.706	-65.296	-3.781
	(STRAIN)		2.435E-05	2.526E-05	-4.585E-05	-4.495E-05
5	30.50000	0.10307	15.486	15.500	-177.565	-5.595
	(STRAIN)		5.306E-05	5.307E-05	-1.207E-04	-1.207E-04
6	0.00000	0.10907	520.000	449.489	65.573	399.065
	(STRAIN)		-2.052E-04	1.634E-04	-2.052E-04	1.114E-04
6	3.00000	0.10440	-1.548	290.797	-2.968	233.131
	(STRAIN)		-1.543E-04	1.264E-04	-1.557E-04	6.955E-05
6	7.20000	0.10482	-2.802	59.897	-15.010	50.279
	(STRAIN)		-9.273E-05	1.189E-04	-1.339E-04	7.497E-05
6	15.50000	0.10534	2.082	52.614	-37.600	18.479
	(STRAIN)		-2.228E-05	1.483E-04	-1.562E-04	1.059E-05
6	23.00000	0.10530	12.409	45.269	-86.238	-61.141
	(STRAIN)		3.499E-05	6.457E-05	-5.379E-05	-5.425E-05
6	30.50000	0.10482	18.432	18.497	-241.216	-96.417
	(STRAIN)		9.105E-05	9.111E-05	-1.426E-04	-1.511E-04
7	0.00000	0.12116	0.000	1582.875	762.986	1575.921
	(STRAIN)		-4.179E-04	3.692E-04	-4.179E-04	3.596E-04
7	3.00000	0.11555	512.470	513.678	296.184	335.099
	(STRAIN)		1.561E-04	1.573E-04	-5.152E-05	-5.501E-05
7	7.20000	0.11195	424.249	425.709	126.760	137.043
	(STRAIN)		8.285E-04	8.334E-04	-1.755E-04	-1.770E-04
7	15.50000	0.10676	235.380	243.652	121.012	129.956
	(STRAIN)		3.616E-04	3.895E-04	-2.438E-05	1.778E-06
7	23.00000	0.10599	91.660	97.118	-125.057	-120.212
	(STRAIN)		1.171E-04	1.220E-04	-7.798E-05	-7.943E-05
7	30.50000	0.10484	25.114	25.141	-427.740	-398.498
	(STRAIN)		2.095E-04	2.095E-04	-1.980E-04	-2.025E-04
8	0.00000	0.09602	0.000	387.824	59.938	342.967
	(STRAIN)		-1.744E-04	1.404E-04	-1.744E-04	8.479E-05
8	3.00000	0.08980	-1.885	250.336	-4.867	199.669
	(STRAIN)		-1.324E-04	1.097E-04	-1.352E-04	4.339E-05
8	7.20000	0.09017	-3.391	60.317	-23.141	44.268
	(STRAIN)		-8.271E-05	1.323E-04	-1.494E-04	4.569E-05
8	15.50000	0.09065	0.440	60.813	-49.101	16.402
	(STRAIN)		-2.311E-05	1.806E-04	-1.903E-04	4.373E-06
8	23.00000	0.09063	9.766	54.144	-74.844	-69.520
	(STRAIN)		2.984E-05	6.978E-05	-4.631E-05	-5.445E-05
8	30.50000	0.09021	15.310	15.654	-216.594	-84.295
	(STRAIN)		8.033E-05	8.064E-05	-1.284E-04	-1.546E-04
9	0.00000	0.07548	0.000	205.057	21.151	128.482
	(STRAIN)		-8.374E-05	9.281E-05	-8.374E-05	1.262E-05
9	3.00000	0.07317	0.320	136.385	-4.158	47.849
	(STRAIN)		-5.252E-05	7.811E-05	-5.681E-05	-2.135E-05
9	7.20000	0.07330	1.405	25.472	-14.965	22.368
	(STRAIN)		-2.402E-05	5.720E-05	-7.927E-05	-1.591E-05
9	15.50000	0.07340	4.017	25.255	-19.840	9.250
	(STRAIN)		7.256E-07	7.240E-05	-7.979E-05	-1.110E-05
9	23.00000	0.07338	6.789	29.487	-33.609	-11.198
	(STRAIN)		9.685E-06	3.011E-05	-2.667E-05	-3.138E-05
9	30.50000	0.07326	8.285	28.699	-96.909	7.451
	(STRAIN)		2.163E-05	4.001E-05	-7.304E-05	-8.594E-05
10	0.00000	0.06222	0.000	114.830	9.057	54.159

	(STRAIN)		-4.353E-05	5.801E-05	-4.353E-05	-3.167E-06
10	3.00000	0.05921	0.429	69.436	-19.964	2.243
	(STRAIN)		-1.476E-05	5.149E-05	-3.433E-05	-3.812E-05
10	7.20000	0.05925	0.857	14.019	-9.715	6.591
	(STRAIN)		-6.642E-06	3.778E-05	-4.232E-05	-2.696E-05
10	15.50000	0.05927	2.335	10.723	-8.511	5.386
	(STRAIN)		1.234E-06	2.954E-05	-3.537E-05	-8.296E-06
10	23.00000	0.05927	3.768	25.529	-13.906	0.303
	(STRAIN)		6.080E-07	2.019E-05	-1.530E-05	-1.752E-05
10	30.50000	0.05926	4.502	49.971	-44.714	4.322
	(STRAIN)		1.817E-06	4.274E-05	-4.248E-05	-4.826E-05

PERIOD NO. 1 LOAD GROUP NO. 5

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.08710	0.000	236.604	24.405	148.249
	(STRAIN)		-9.662E-05	1.071E-04	-9.662E-05	1.457E-05
1	3.00000	0.08443	0.369	157.368	-4.797	55.211
	(STRAIN)		-6.059E-05	9.012E-05	-6.555E-05	-2.463E-05
1	7.20000	0.08458	1.622	29.391	-17.267	25.809
	(STRAIN)		-2.772E-05	6.600E-05	-9.147E-05	-1.836E-05
1	15.50000	0.08469	4.635	29.140	-22.893	10.673
	(STRAIN)		8.372E-07	8.354E-05	-9.207E-05	-1.281E-05
1	23.00000	0.08466	7.834	34.023	-38.779	-12.921
	(STRAIN)		1.118E-05	3.475E-05	-3.078E-05	-3.620E-05
1	30.50000	0.08453	9.560	33.114	-111.818	8.598
	(STRAIN)		2.496E-05	4.616E-05	-8.428E-05	-9.917E-05
2	0.00000	0.11079	600.000	447.490	69.159	395.731
	(STRAIN)		-2.012E-04	1.620E-04	-2.012E-04	9.784E-05
2	3.00000	0.10361	-2.175	288.850	-5.616	230.387
	(STRAIN)		-1.528E-04	1.266E-04	-1.561E-04	5.006E-05
2	7.20000	0.10404	-3.912	69.596	-26.702	51.079
	(STRAIN)		-9.543E-05	1.527E-04	-1.723E-04	5.272E-05
2	15.50000	0.10459	0.508	70.169	-56.655	18.925
	(STRAIN)		-2.667E-05	2.084E-04	-2.196E-04	5.046E-06
2	23.00000	0.10457	11.268	62.474	-86.358	-80.215
	(STRAIN)		3.443E-05	8.052E-05	-5.343E-05	-6.283E-05
2	30.50000	0.10408	17.665	18.062	-249.916	-97.263
	(STRAIN)		9.269E-05	9.305E-05	-1.481E-04	-1.784E-04
3	0.00000	0.13980	0.000	1826.260	880.368	1818.505
	(STRAIN)		-4.822E-04	4.258E-04	-4.822E-04	4.150E-04
3	3.00000	0.13332	591.312	592.704	341.749	386.656
	(STRAIN)		1.801E-04	1.815E-04	-5.945E-05	-6.348E-05
3	7.20000	0.12917	489.518	491.203	146.261	158.127
	(STRAIN)		9.560E-04	9.617E-04	-2.025E-04	-2.042E-04
3	15.50000	0.12318	271.592	281.137	139.629	149.949
	(STRAIN)		4.172E-04	4.495E-04	-2.813E-05	2.051E-06
3	23.00000	0.12229	105.761	112.059	-144.296	-138.707
	(STRAIN)		1.351E-04	1.407E-04	-8.998E-05	-9.166E-05
3	30.50000	0.12097	28.978	29.009	-493.546	-459.805
	(STRAIN)		2.418E-04	2.418E-04	-2.285E-04	-2.337E-04
4	0.00000	0.12585	0.000	518.641	75.662	460.460
	(STRAIN)		-2.368E-04	1.885E-04	-2.368E-04	1.285E-04
4	3.00000	0.12046	-1.786	335.535	-3.424	268.997
	(STRAIN)		-1.780E-04	1.458E-04	-1.796E-04	8.025E-05
4	7.20000	0.12095	-3.234	69.112	-17.319	58.014

	(STRAIN)		-1.070E-04	1.372E-04	-1.545E-04	8.651E-05
4	15.50000	0.12154	2.403	60.709	-43.385	21.322
	(STRAIN)		-2.571E-05	1.711E-04	-1.802E-04	1.222E-05
4	23.00000	0.12150	14.318	52.233	-99.505	-70.548
	(STRAIN)		4.038E-05	7.450E-05	-6.206E-05	-6.259E-05
4	30.50000	0.12095	21.268	21.342	-278.326	-111.250
	(STRAIN)		1.051E-04	1.051E-04	-1.646E-04	-1.744E-04
5	0.00000	0.12349	0.000	436.428	43.670	348.950
	(STRAIN)		-2.013E-04	1.758E-04	-2.013E-04	9.180E-05
5	3.00000	0.11878	0.808	287.617	0.611	162.245
	(STRAIN)		-1.314E-04	1.440E-04	-1.316E-04	2.362E-05
5	7.20000	0.11910	3.042	53.722	1.244	25.525
	(STRAIN)		-6.016E-05	1.109E-04	-6.623E-05	1.572E-05
5	15.50000	0.11935	8.650	25.817	0.841	5.172
	(STRAIN)		1.341E-06	5.928E-05	-2.501E-05	-1.040E-05
5	23.00000	0.11927	14.659	15.814	-75.342	-4.362
	(STRAIN)		2.810E-05	2.914E-05	-5.290E-05	-5.186E-05
5	30.50000	0.11893	17.868	17.885	-204.882	-6.456
	(STRAIN)		6.122E-05	6.124E-05	-1.393E-04	-1.392E-04
6	0.00000	0.12585	600.000	518.641	75.662	460.460
	(STRAIN)		-2.368E-04	1.885E-04	-2.368E-04	1.285E-04
6	3.00000	0.12046	-1.786	335.535	-3.424	268.997
	(STRAIN)		-1.780E-04	1.458E-04	-1.796E-04	8.025E-05
6	7.20000	0.12095	-3.234	69.112	-17.319	58.014
	(STRAIN)		-1.070E-04	1.372E-04	-1.545E-04	8.651E-05
6	15.50000	0.12154	2.403	60.709	-43.385	21.322
	(STRAIN)		-2.571E-05	1.711E-04	-1.802E-04	1.222E-05
6	23.00000	0.12150	14.318	52.233	-99.505	-70.548
	(STRAIN)		4.038E-05	7.450E-05	-6.206E-05	-6.259E-05
6	30.50000	0.12095	21.268	21.342	-278.326	-111.250
	(STRAIN)		1.051E-04	1.051E-04	-1.646E-04	-1.744E-04
7	0.00000	0.13980	0.000	1826.294	880.368	1818.470
	(STRAIN)		-4.822E-04	4.259E-04	-4.822E-04	4.150E-04
7	3.00000	0.13332	591.312	592.705	341.750	386.654
	(STRAIN)		1.801E-04	1.815E-04	-5.945E-05	-6.348E-05
7	7.20000	0.12917	489.518	491.203	146.261	158.127
	(STRAIN)		9.560E-04	9.617E-04	-2.025E-04	-2.042E-04
7	15.50000	0.12318	271.592	281.137	139.629	149.949
	(STRAIN)		4.172E-04	4.495E-04	-2.813E-05	2.051E-06
7	23.00000	0.12229	105.761	112.059	-144.296	-138.707
	(STRAIN)		1.351E-04	1.407E-04	-8.998E-05	-9.166E-05
7	30.50000	0.12097	28.978	29.009	-493.547	-459.805
	(STRAIN)		2.418E-04	2.418E-04	-2.285E-04	-2.337E-04
8	0.00000	0.11079	0.000	447.490	69.159	395.731
	(STRAIN)		-2.012E-04	1.620E-04	-2.012E-04	9.784E-05
8	3.00000	0.10361	-2.175	288.850	-5.616	230.387
	(STRAIN)		-1.528E-04	1.266E-04	-1.561E-04	5.006E-05
8	7.20000	0.10404	-3.912	69.596	-26.702	51.079
	(STRAIN)		-9.543E-05	1.527E-04	-1.723E-04	5.272E-05
8	15.50000	0.10459	0.508	70.169	-56.655	18.925
	(STRAIN)		-2.667E-05	2.084E-04	-2.196E-04	5.046E-06
8	23.00000	0.10457	11.268	62.474	-86.358	-80.215
	(STRAIN)		3.443E-05	8.052E-05	-5.343E-05	-6.283E-05
8	30.50000	0.10408	17.665	18.062	-249.916	-97.263
	(STRAIN)		9.269E-05	9.305E-05	-1.481E-04	-1.784E-04
9	0.00000	0.08710	0.000	236.604	24.405	148.249
	(STRAIN)		-9.662E-05	1.071E-04	-9.662E-05	1.457E-05
9	3.00000	0.08443	0.369	157.368	-4.797	55.211
	(STRAIN)		-6.059E-05	9.012E-05	-6.555E-05	-2.463E-05

9	7.20000	0.08458	1.622	29.391	-17.267	25.809
	(STRAIN)		-2.772E-05	6.600E-05	-9.147E-05	-1.836E-05
9	15.50000	0.08469	4.635	29.140	-22.893	10.673
	(STRAIN)		8.372E-07	8.354E-05	-9.207E-05	-1.281E-05
9	23.00000	0.08466	7.834	34.023	-38.779	-12.921
	(STRAIN)		1.118E-05	3.475E-05	-3.078E-05	-3.620E-05
9	30.50000	0.08453	9.560	33.114	-111.818	8.598
	(STRAIN)		2.496E-05	4.616E-05	-8.428E-05	-9.917E-05
10	0.00000	0.07179	0.000	132.496	10.450	62.491
	(STRAIN)		-5.023E-05	6.693E-05	-5.023E-05	-3.654E-06
10	3.00000	0.06832	0.495	80.118	-23.035	2.588
	(STRAIN)		-1.703E-05	5.941E-05	-3.962E-05	-4.398E-05
10	7.20000	0.06836	0.988	16.176	-11.210	7.605
	(STRAIN)		-7.663E-06	4.359E-05	-4.883E-05	-3.110E-05
10	15.50000	0.06839	2.695	12.372	-9.821	6.215
	(STRAIN)		1.424E-06	3.409E-05	-4.082E-05	-9.572E-06
10	23.00000	0.06839	4.347	29.457	-16.046	0.350
	(STRAIN)		7.015E-07	2.330E-05	-1.765E-05	-2.021E-05
10	30.50000	0.06838	5.195	57.659	-51.593	4.987
	(STRAIN)		2.096E-06	4.931E-05	-4.901E-05	-5.569E-05

PERIOD NO. 1 LOAD GROUP NO. 6

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.10161	0.000	276.038	28.472	172.957
	(STRAIN)		-1.127E-04	1.249E-04	-1.127E-04	1.699E-05
1	3.00000	0.09850	0.431	183.596	-5.597	64.412
	(STRAIN)		-7.069E-05	1.051E-04	-7.648E-05	-2.873E-05
1	7.20000	0.09867	1.892	34.290	-20.145	30.110
	(STRAIN)		-3.234E-05	7.700E-05	-1.067E-04	-2.142E-05
1	15.50000	0.09880	5.407	33.997	-26.708	12.452
	(STRAIN)		9.767E-07	9.747E-05	-1.074E-04	-1.494E-05
1	23.00000	0.09877	9.140	39.694	-45.243	-15.075
	(STRAIN)		1.304E-05	4.054E-05	-3.591E-05	-4.224E-05
1	30.50000	0.09861	11.153	38.633	-130.454	10.031
	(STRAIN)		2.912E-05	5.385E-05	-9.832E-05	-1.157E-04
2	0.00000	0.12925	700.000	522.071	80.686	461.687
	(STRAIN)		-2.348E-04	1.890E-04	-2.348E-04	1.141E-04
2	3.00000	0.12088	-2.538	336.991	-6.552	268.785
	(STRAIN)		-1.782E-04	1.477E-04	-1.821E-04	5.841E-05
2	7.20000	0.12138	-4.564	81.195	-31.152	59.592
	(STRAIN)		-1.113E-04	1.781E-04	-2.011E-04	6.151E-05
2	15.50000	0.12202	0.593	81.863	-66.098	22.079
	(STRAIN)		-3.111E-05	2.432E-04	-2.562E-04	5.887E-06
2	23.00000	0.12200	13.146	72.886	-100.751	-93.584
	(STRAIN)		4.017E-05	9.394E-05	-6.234E-05	-7.330E-05
2	30.50000	0.12143	20.610	21.072	-291.568	-113.474
	(STRAIN)		1.081E-04	1.086E-04	-1.728E-04	-2.081E-04
3	0.00000	0.16310	0.000	2130.771	1027.096	2121.455
	(STRAIN)		-5.626E-04	4.969E-04	-5.626E-04	4.841E-04
3	3.00000	0.15554	689.863	691.489	398.709	451.095
	(STRAIN)		2.102E-04	2.117E-04	-6.935E-05	-7.406E-05
3	7.20000	0.15070	571.105	573.070	170.638	184.482
	(STRAIN)		1.115E-03	1.122E-03	-2.363E-04	-2.383E-04
3	15.50000	0.14371	316.857	327.993	162.901	174.940
	(STRAIN)		4.868E-04	5.244E-04	-3.281E-05	2.393E-06

3	23.00000	0.14267	123.388	130.736	-168.346	-161.825
	(STRAIN)		1.576E-04	1.642E-04	-1.050E-04	-1.069E-04
3	30.50000	0.14113	33.807	33.843	-575.804	-536.440
	(STRAIN)		2.821E-04	2.821E-04	-2.666E-04	-2.727E-04
4	0.00000	0.14682	0.000	605.081	88.272	537.204
	(STRAIN)		-2.762E-04	2.199E-04	-2.762E-04	1.499E-04
4	3.00000	0.14053	-2.084	391.457	-3.995	313.830
	(STRAIN)		-2.077E-04	1.701E-04	-2.095E-04	9.363E-05
4	7.20000	0.14110	-3.772	80.631	-20.205	67.683
	(STRAIN)		-1.248E-04	1.600E-04	-1.803E-04	1.009E-04
4	15.50000	0.14180	2.803	70.827	-50.616	24.875
	(STRAIN)		-2.999E-05	1.996E-04	-2.103E-04	1.425E-05
4	23.00000	0.14175	16.704	60.939	-116.089	-82.306
	(STRAIN)		4.711E-05	8.692E-05	-7.241E-05	-7.302E-05
4	30.50000	0.14110	24.813	24.899	-324.714	-129.792
	(STRAIN)		1.226E-04	1.227E-04	-1.920E-04	-2.035E-04
5	0.00000	0.14408	0.000	509.166	50.948	407.108
	(STRAIN)		-2.348E-04	2.051E-04	-2.348E-04	1.071E-04
5	3.00000	0.13858	0.942	335.554	0.713	189.285
	(STRAIN)		-1.533E-04	1.680E-04	-1.535E-04	2.755E-05
5	7.20000	0.13895	3.549	62.676	1.452	29.779
	(STRAIN)		-7.019E-05	1.294E-04	-7.727E-05	1.834E-05
5	15.50000	0.13924	10.091	30.120	0.981	6.034
	(STRAIN)		1.565E-06	6.916E-05	-2.918E-05	-1.213E-05
5	23.00000	0.13915	17.102	18.450	-87.899	-5.090
	(STRAIN)		3.278E-05	3.400E-05	-6.172E-05	-6.050E-05
5	30.50000	0.13875	20.846	20.865	-239.029	-7.532
	(STRAIN)		7.142E-05	7.144E-05	-1.625E-04	-1.624E-04
6	0.00000	0.14682	700.000	605.081	88.272	537.204
	(STRAIN)		-2.762E-04	2.199E-04	-2.762E-04	1.499E-04
6	3.00000	0.14053	-2.084	391.457	-3.995	313.830
	(STRAIN)		-2.077E-04	1.701E-04	-2.095E-04	9.363E-05
6	7.20000	0.14110	-3.772	80.631	-20.205	67.683
	(STRAIN)		-1.248E-04	1.600E-04	-1.803E-04	1.009E-04
6	15.50000	0.14180	2.803	70.827	-50.616	24.875
	(STRAIN)		-2.999E-05	1.996E-04	-2.103E-04	1.425E-05
6	23.00000	0.14175	16.704	60.939	-116.089	-82.306
	(STRAIN)		4.711E-05	8.692E-05	-7.241E-05	-7.302E-05
6	30.50000	0.14110	24.813	24.899	-324.714	-129.792
	(STRAIN)		1.226E-04	1.227E-04	-1.920E-04	-2.035E-04
7	0.00000	0.16310	0.000	2130.610	1027.096	2121.615
	(STRAIN)		-5.626E-04	4.968E-04	-5.626E-04	4.841E-04
7	3.00000	0.15554	689.863	691.488	398.707	451.098
	(STRAIN)		2.102E-04	2.117E-04	-6.935E-05	-7.406E-05
7	7.20000	0.15070	571.105	573.070	170.638	184.482
	(STRAIN)		1.115E-03	1.122E-03	-2.363E-04	-2.383E-04
7	15.50000	0.14371	316.857	327.993	162.900	174.941
	(STRAIN)		4.868E-04	5.244E-04	-3.282E-05	2.393E-06
7	23.00000	0.14267	123.388	130.736	-168.346	-161.825
	(STRAIN)		1.576E-04	1.642E-04	-1.050E-04	-1.069E-04
7	30.50000	0.14113	33.807	33.843	-575.804	-536.440
	(STRAIN)		2.821E-04	2.821E-04	-2.666E-04	-2.727E-04
8	0.00000	0.12925	0.000	522.071	80.686	461.687
	(STRAIN)		-2.348E-04	1.890E-04	-2.348E-04	1.141E-04
8	3.00000	0.12088	-2.538	336.991	-6.552	268.785
	(STRAIN)		-1.782E-04	1.477E-04	-1.821E-04	5.841E-05
8	7.20000	0.12138	-4.564	81.195	-31.152	59.592
	(STRAIN)		-1.113E-04	1.781E-04	-2.011E-04	6.151E-05
8	15.50000	0.12202	0.593	81.863	-66.098	22.079

	(STRAIN)		-3.111E-05	2.432E-04	-2.562E-04	5.887E-06
8	23.00000	0.12200	13.146	72.886	-100.751	-93.584
	(STRAIN)		4.017E-05	9.394E-05	-6.234E-05	-7.330E-05
8	30.50000	0.12143	20.610	21.072	-291.568	-113.474
	(STRAIN)		1.081E-04	1.086E-04	-1.728E-04	-2.081E-04
9	0.00000	0.10161	0.000	276.038	28.472	172.957
	(STRAIN)		-1.127E-04	1.249E-04	-1.127E-04	1.699E-05
9	3.00000	0.09850	0.431	183.596	-5.597	64.412
	(STRAIN)		-7.069E-05	1.051E-04	-7.648E-05	-2.873E-05
9	7.20000	0.09867	1.892	34.290	-20.145	30.110
	(STRAIN)		-3.234E-05	7.700E-05	-1.067E-04	-2.142E-05
9	15.50000	0.09880	5.407	33.997	-26.708	12.452
	(STRAIN)		9.767E-07	9.747E-05	-1.074E-04	-1.494E-05
9	23.00000	0.09877	9.140	39.694	-45.243	-15.075
	(STRAIN)		1.304E-05	4.054E-05	-3.591E-05	-4.224E-05
9	30.50000	0.09861	11.153	38.633	-130.454	10.031
	(STRAIN)		2.912E-05	5.385E-05	-9.832E-05	-1.157E-04
10	0.00000	0.08375	0.000	154.579	12.192	72.906
	(STRAIN)		-5.860E-05	7.809E-05	-5.860E-05	-4.263E-06
10	3.00000	0.07971	0.578	93.471	-26.874	3.019
	(STRAIN)		-1.987E-05	6.931E-05	-4.622E-05	-5.131E-05
10	7.20000	0.07976	1.153	18.872	-13.078	8.872
	(STRAIN)		-8.941E-06	5.086E-05	-5.697E-05	-3.629E-05
10	15.50000	0.07979	3.144	14.434	-11.458	7.251
	(STRAIN)		1.661E-06	3.977E-05	-4.762E-05	-1.117E-05
10	23.00000	0.07979	5.072	34.367	-18.720	0.408
	(STRAIN)		8.184E-07	2.718E-05	-2.059E-05	-2.358E-05
10	30.50000	0.07978	6.061	67.269	-60.192	5.818
	(STRAIN)		2.446E-06	5.753E-05	-5.718E-05	-6.497E-05

PERIOD NO. 1 LOAD GROUP NO. 7

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.10945	0.000	385.104	58.781	326.251
	(STRAIN)		-1.695E-04	1.438E-04	-1.695E-04	7.584E-05
1	3.00000	0.10339	-1.493	250.680	-4.582	189.363
	(STRAIN)		-1.292E-04	1.129E-04	-1.321E-04	3.696E-05
1	7.20000	0.10375	-3.290	58.617	-23.236	44.881
	(STRAIN)		-8.133E-05	1.276E-04	-1.487E-04	4.323E-05
1	15.50000	0.10423	0.439	60.377	-48.857	16.892
	(STRAIN)		-2.338E-05	1.789E-04	-1.898E-04	3.935E-06
1	23.00000	0.10421	9.756	55.643	-72.929	-66.667
	(STRAIN)		2.837E-05	6.967E-05	-4.605E-05	-5.426E-05
1	30.50000	0.10381	15.306	15.717	-214.929	-74.627
	(STRAIN)		7.767E-05	7.804E-05	-1.295E-04	-1.553E-04
2	0.00000	0.13683	520.000	1585.206	763.000	1561.583
	(STRAIN)		-4.144E-04	3.749E-04	-4.144E-04	3.499E-04
2	3.00000	0.13112	512.906	514.114	280.896	336.938
	(STRAIN)		1.604E-04	1.615E-04	-6.238E-05	-6.584E-05
2	7.20000	0.12751	424.350	425.803	124.159	137.906
	(STRAIN)		8.303E-04	8.352E-04	-1.828E-04	-1.845E-04
2	15.50000	0.12231	235.410	243.686	121.592	129.684
	(STRAIN)		3.614E-04	3.893E-04	-2.272E-05	1.551E-06
2	23.00000	0.12155	91.704	97.193	-121.912	-115.365
	(STRAIN)		1.152E-04	1.202E-04	-7.703E-05	-7.762E-05
2	30.50000	0.12042	25.179	25.209	-415.978	-395.316

	(STRAIN)		2.061E-04	2.061E-04	-1.910E-04	-1.979E-04
3	0.00000	0.12736	0.000	454.189	65.598	378.679
	(STRAIN)		-2.006E-04	1.725E-04	-2.006E-04	9.862E-05
3	3.00000	0.12259	-1.258	294.400	-2.786	213.829
	(STRAIN)		-1.495E-04	1.344E-04	-1.509E-04	5.586E-05
3	7.20000	0.12300	-2.721	59.301	-15.448	49.278
	(STRAIN)		-9.067E-05	1.187E-04	-1.336E-04	6.629E-05
3	15.50000	0.12351	2.188	52.791	-37.843	19.036
	(STRAIN)		-2.235E-05	1.484E-04	-1.575E-04	9.937E-06
3	23.00000	0.12348	12.581	47.977	-84.979	-54.899
	(STRAIN)		3.277E-05	6.462E-05	-5.504E-05	-5.467E-05
3	30.50000	0.12303	18.654	18.706	-240.554	-78.091
	(STRAIN)		8.677E-05	8.682E-05	-1.465E-04	-1.532E-04
4	0.00000	0.12900	0.000	391.669	40.074	282.200
	(STRAIN)		-1.710E-04	1.666E-04	-1.710E-04	6.117E-05
4	3.00000	0.12465	0.670	257.050	0.504	117.728
	(STRAIN)		-1.094E-04	1.367E-04	-1.096E-04	2.760E-06
4	7.20000	0.12491	2.724	48.613	1.225	17.916
	(STRAIN)		-5.009E-05	1.048E-04	-5.515E-05	1.039E-06
4	15.50000	0.12511	7.765	23.239	1.217	4.001
	(STRAIN)		1.307E-06	5.353E-05	-2.079E-05	-1.150E-05
4	23.00000	0.12506	13.142	14.188	-64.743	7.549
	(STRAIN)		2.186E-05	2.280E-05	-4.823E-05	-4.737E-05
4	30.50000	0.12479	16.028	19.682	-180.157	15.886
	(STRAIN)		4.816E-05	5.145E-05	-1.284E-04	-1.285E-04
5	0.00000	0.13995	0.000	490.947	68.971	424.521
	(STRAIN)		-2.226E-04	1.825E-04	-2.226E-04	1.147E-04
5	3.00000	0.13082	-1.746	307.047	-3.420	208.742
	(STRAIN)		-1.520E-04	1.445E-04	-1.536E-04	4.720E-05
5	7.20000	0.13124	-2.615	59.638	-16.277	51.013
	(STRAIN)		-9.140E-05	1.187E-04	-1.375E-04	5.857E-05
5	15.50000	0.13175	2.670	53.953	-38.740	20.006
	(STRAIN)		-2.181E-05	1.513E-04	-1.616E-04	7.349E-06
5	23.00000	0.13172	13.361	51.824	-87.511	-52.814
	(STRAIN)		3.268E-05	6.729E-05	-5.811E-05	-5.928E-05
5	30.50000	0.13127	19.591	19.748	-249.565	-65.036
	(STRAIN)		8.643E-05	8.657E-05	-1.558E-04	-1.655E-04
6	0.00000	0.15767	520.000	1645.541	768.217	1620.666
	(STRAIN)		-4.459E-04	3.963E-04	-4.459E-04	3.724E-04
6	3.00000	0.14828	512.647	514.154	277.306	364.848
	(STRAIN)		1.530E-04	1.544E-04	-7.297E-05	-7.297E-05
6	7.20000	0.14469	424.659	426.179	123.137	143.330
	(STRAIN)		8.272E-04	8.323E-04	-1.905E-04	-1.905E-04
6	15.50000	0.13951	236.556	245.068	123.519	129.548
	(STRAIN)		3.625E-04	3.912E-04	-1.899E-05	1.356E-06
6	23.00000	0.13874	93.562	98.914	-127.501	-107.844
	(STRAIN)		1.160E-04	1.209E-04	-8.292E-05	-7.810E-05
6	30.50000	0.13760	27.400	27.423	-419.786	-391.343
	(STRAIN)		2.075E-04	2.075E-04	-1.949E-04	-1.949E-04
7	0.00000	0.13995	0.000	490.947	68.971	424.521
	(STRAIN)		-2.226E-04	1.825E-04	-2.226E-04	1.147E-04
7	3.00000	0.13082	-1.746	307.047	-3.420	208.742
	(STRAIN)		-1.520E-04	1.445E-04	-1.536E-04	4.720E-05
7	7.20000	0.13124	-2.615	59.638	-16.277	51.013
	(STRAIN)		-9.140E-05	1.187E-04	-1.375E-04	5.857E-05
7	15.50000	0.13175	2.670	53.953	-38.740	20.006
	(STRAIN)		-2.181E-05	1.513E-04	-1.616E-04	7.349E-06
7	23.00000	0.13172	13.361	51.824	-87.511	-52.814
	(STRAIN)		3.268E-05	6.729E-05	-5.811E-05	-5.928E-05

7	30.50000	0.13127	19.591	19.748	-249.565	-65.036
	(STRAIN)		8.643E-05	8.657E-05	-1.558E-04	-1.655E-04
8	0.00000	0.12900	0.000	391.669	40.074	282.200
	(STRAIN)		-1.710E-04	1.666E-04	-1.710E-04	6.117E-05
8	3.00000	0.12465	0.670	257.050	0.504	117.728
	(STRAIN)		-1.094E-04	1.367E-04	-1.096E-04	2.760E-06
8	7.20000	0.12491	2.724	48.613	1.225	17.916
	(STRAIN)		-5.009E-05	1.048E-04	-5.515E-05	1.039E-06
8	15.50000	0.12511	7.765	23.239	1.217	4.001
	(STRAIN)		1.307E-06	5.353E-05	-2.079E-05	-1.150E-05
8	23.00000	0.12506	13.142	14.188	-64.743	7.549
	(STRAIN)		2.186E-05	2.280E-05	-4.823E-05	-4.737E-05
8	30.50000	0.12479	16.028	19.682	-180.157	15.886
	(STRAIN)		4.816E-05	5.145E-05	-1.284E-04	-1.285E-04
9	0.00000	0.12736	0.000	454.189	65.598	378.679
	(STRAIN)		-2.006E-04	1.725E-04	-2.006E-04	9.862E-05
9	3.00000	0.12259	-1.258	294.400	-2.786	213.829
	(STRAIN)		-1.495E-04	1.344E-04	-1.509E-04	5.586E-05
9	7.20000	0.12300	-2.721	59.301	-15.448	49.278
	(STRAIN)		-9.067E-05	1.187E-04	-1.336E-04	6.629E-05
9	15.50000	0.12351	2.188	52.791	-37.843	19.036
	(STRAIN)		-2.235E-05	1.484E-04	-1.575E-04	9.937E-06
9	23.00000	0.12348	12.581	47.977	-84.979	-54.899
	(STRAIN)		3.277E-05	6.462E-05	-5.504E-05	-5.467E-05
9	30.50000	0.12303	18.654	18.706	-240.554	-78.091
	(STRAIN)		8.677E-05	8.682E-05	-1.465E-04	-1.532E-04
10	0.00000	0.13683	520.000	1585.206	763.000	1561.583
	(STRAIN)		-4.144E-04	3.749E-04	-4.144E-04	3.499E-04
10	3.00000	0.13112	512.906	514.114	280.895	336.939
	(STRAIN)		1.604E-04	1.615E-04	-6.238E-05	-6.584E-05
10	7.20000	0.12751	424.350	425.803	124.159	137.906
	(STRAIN)		8.303E-04	8.352E-04	-1.828E-04	-1.845E-04
10	15.50000	0.12231	235.410	243.686	121.592	129.684
	(STRAIN)		3.614E-04	3.893E-04	-2.272E-05	1.551E-06
10	23.00000	0.12155	91.704	97.193	-121.912	-115.365
	(STRAIN)		1.152E-04	1.202E-04	-7.703E-05	-7.762E-05
10	30.50000	0.12042	25.179	25.209	-415.977	-395.316
	(STRAIN)		2.061E-04	2.061E-04	-1.910E-04	-1.979E-04
11	0.00000	0.10945	0.000	385.105	58.781	326.251
	(STRAIN)		-1.695E-04	1.438E-04	-1.695E-04	7.584E-05
11	3.00000	0.10339	-1.493	250.680	-4.582	189.363
	(STRAIN)		-1.292E-04	1.129E-04	-1.321E-04	3.696E-05
11	7.20000	0.10375	-3.290	58.617	-23.236	44.881
	(STRAIN)		-8.133E-05	1.276E-04	-1.487E-04	4.323E-05
11	15.50000	0.10423	0.439	60.377	-48.857	16.892
	(STRAIN)		-2.338E-05	1.789E-04	-1.898E-04	3.935E-06
11	23.00000	0.10421	9.756	55.643	-72.929	-66.667
	(STRAIN)		2.837E-05	6.967E-05	-4.605E-05	-5.426E-05
11	30.50000	0.10381	15.306	15.717	-214.929	-74.627
	(STRAIN)		7.767E-05	7.804E-05	-1.295E-04	-1.553E-04
12	0.00000	0.08751	0.000	205.507	21.142	118.600
	(STRAIN)		-8.098E-05	9.601E-05	-8.098E-05	6.095E-06
12	3.00000	0.08525	0.563	137.467	-4.618	40.644
	(STRAIN)		-5.035E-05	8.108E-05	-5.532E-05	-2.675E-05
12	7.20000	0.08537	1.475	25.999	-15.307	21.394
	(STRAIN)		-2.310E-05	5.967E-05	-7.974E-05	-1.963E-05
12	15.50000	0.08546	4.005	24.923	-19.649	9.681
	(STRAIN)		4.328E-07	7.103E-05	-7.940E-05	-1.175E-05
12	23.00000	0.08545	6.761	31.292	-32.134	-9.615

	(STRAIN)		8.525E-06	3.060E-05	-2.648E-05	-3.113E-05
12	30.50000	0.08534	8.256	35.820	-95.601	7.586
	(STRAIN)		1.961E-05	4.442E-05	-7.386E-05	-8.660E-05

PERIOD NO. 1 LOAD GROUP NO. 8

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.12628	0.000	444.351	67.825	376.443
	(STRAIN)		-1.955E-04	1.659E-04	-1.956E-04	8.751E-05
1	3.00000	0.11930	-1.722	289.246	-5.287	218.496
	(STRAIN)		-1.490E-04	1.303E-04	-1.525E-04	4.265E-05
1	7.20000	0.11972	-3.796	67.635	-26.810	51.786
	(STRAIN)		-9.385E-05	1.472E-04	-1.715E-04	4.989E-05
1	15.50000	0.12026	0.507	69.666	-56.374	19.490
	(STRAIN)		-2.697E-05	2.064E-04	-2.189E-04	4.541E-06
1	23.00000	0.12025	11.256	64.203	-84.149	-76.924
	(STRAIN)		3.273E-05	8.039E-05	-5.313E-05	-6.261E-05
1	30.50000	0.11978	17.660	18.135	-247.995	-86.108
	(STRAIN)		8.962E-05	9.005E-05	-1.495E-04	-1.792E-04
2	0.00000	0.15788	600.000	1829.064	880.384	1801.845
	(STRAIN)		-4.781E-04	4.326E-04	-4.781E-04	4.038E-04
2	3.00000	0.15129	591.814	593.208	324.110	388.776
	(STRAIN)		1.850E-04	1.864E-04	-7.198E-05	-7.597E-05
2	7.20000	0.14713	489.634	491.311	143.261	159.122
	(STRAIN)		9.580E-04	9.637E-04	-2.110E-04	-2.129E-04
2	15.50000	0.14113	271.627	281.176	140.299	149.636
	(STRAIN)		4.170E-04	4.492E-04	-2.621E-05	1.790E-06
2	23.00000	0.14025	105.813	112.146	-140.668	-133.114
	(STRAIN)		1.329E-04	1.386E-04	-8.889E-05	-8.956E-05
2	30.50000	0.13895	29.052	29.087	-479.974	-456.134
	(STRAIN)		2.378E-04	2.378E-04	-2.203E-04	-2.283E-04
3	0.00000	0.14695	0.000	524.064	75.689	436.937
	(STRAIN)		-2.314E-04	1.990E-04	-2.314E-04	1.138E-04
3	3.00000	0.14145	-1.451	339.692	-3.214	246.726
	(STRAIN)		-1.725E-04	1.550E-04	-1.742E-04	6.446E-05
3	7.20000	0.14192	-3.140	68.424	-17.825	56.859
	(STRAIN)		-1.046E-04	1.369E-04	-1.542E-04	7.649E-05
3	15.50000	0.14251	2.525	60.912	-43.665	21.965
	(STRAIN)		-2.579E-05	1.713E-04	-1.817E-04	1.147E-05
3	23.00000	0.14248	14.517	55.358	-98.053	-63.345
	(STRAIN)		3.781E-05	7.456E-05	-6.351E-05	-6.308E-05
3	30.50000	0.14195	21.524	21.584	-277.563	-90.105
	(STRAIN)		1.001E-04	1.002E-04	-1.691E-04	-1.767E-04
4	0.00000	0.14884	0.000	451.926	46.240	325.616
	(STRAIN)		-1.973E-04	1.922E-04	-1.973E-04	7.058E-05
4	3.00000	0.14382	0.773	296.596	0.582	135.840
	(STRAIN)		-1.263E-04	1.577E-04	-1.265E-04	3.184E-06
4	7.20000	0.14413	3.143	56.092	1.414	20.672
	(STRAIN)		-5.780E-05	1.209E-04	-6.363E-05	1.198E-06
4	15.50000	0.14436	8.960	26.815	1.404	4.617
	(STRAIN)		1.508E-06	6.177E-05	-2.399E-05	-1.326E-05
4	23.00000	0.14430	15.163	16.371	-74.703	8.710
	(STRAIN)		2.523E-05	2.631E-05	-5.565E-05	-5.465E-05
4	30.50000	0.14399	18.494	22.711	-207.873	18.330
	(STRAIN)		5.557E-05	5.937E-05	-1.482E-04	-1.483E-04
5	0.00000	0.16148	0.000	566.477	79.581	489.832

	(STRAIN)		-2.568E-04	2.106E-04	-2.568E-04	1.323E-04
5	3.00000	0.15094	-2.015	354.285	-3.946	240.857
	(STRAIN)		-1.754E-04	1.667E-04	-1.772E-04	5.446E-05
5	7.20000	0.15143	-3.017	68.813	-18.781	58.861
	(STRAIN)		-1.055E-04	1.370E-04	-1.587E-04	6.759E-05
5	15.50000	0.15202	3.080	62.254	-44.700	23.084
	(STRAIN)		-2.516E-05	1.745E-04	-1.864E-04	8.480E-06
5	23.00000	0.15198	15.416	59.797	-100.975	-60.940
	(STRAIN)		3.770E-05	7.764E-05	-6.705E-05	-6.840E-05
5	30.50000	0.15146	22.605	22.787	-287.959	-75.042
	(STRAIN)		9.973E-05	9.989E-05	-1.798E-04	-1.910E-04
6	0.00000	0.18193	600.000	1898.736	886.405	1869.964
	(STRAIN)		-5.145E-04	4.573E-04	-5.145E-04	4.297E-04
6	3.00000	0.17110	591.516	593.255	319.969	420.978
	(STRAIN)		1.765E-04	1.782E-04	-8.420E-05	-8.420E-05
6	7.20000	0.16695	489.991	491.745	142.082	165.381
	(STRAIN)		9.544E-04	9.603E-04	-2.198E-04	-2.198E-04
6	15.50000	0.16097	272.949	282.771	142.523	149.477
	(STRAIN)		4.183E-04	4.514E-04	-2.191E-05	1.565E-06
6	23.00000	0.16009	107.956	114.131	-147.116	-124.435
	(STRAIN)		1.339E-04	1.394E-04	-9.567E-05	-9.012E-05
6	30.50000	0.15877	31.615	31.641	-484.368	-451.550
	(STRAIN)		2.395E-04	2.395E-04	-2.249E-04	-2.249E-04
7	0.00000	0.16148	0.000	566.477	79.581	489.832
	(STRAIN)		-2.568E-04	2.106E-04	-2.568E-04	1.323E-04
7	3.00000	0.15094	-2.015	354.285	-3.946	240.857
	(STRAIN)		-1.754E-04	1.667E-04	-1.772E-04	5.446E-05
7	7.20000	0.15143	-3.017	68.813	-18.781	58.861
	(STRAIN)		-1.055E-04	1.370E-04	-1.587E-04	6.759E-05
7	15.50000	0.15202	3.080	62.254	-44.700	23.084
	(STRAIN)		-2.516E-05	1.745E-04	-1.864E-04	8.480E-06
7	23.00000	0.15198	15.416	59.797	-100.975	-60.940
	(STRAIN)		3.770E-05	7.764E-05	-6.705E-05	-6.840E-05
7	30.50000	0.15146	22.605	22.787	-287.959	-75.042
	(STRAIN)		9.973E-05	9.989E-05	-1.798E-04	-1.910E-04
8	0.00000	0.14884	0.000	451.926	46.240	325.616
	(STRAIN)		-1.973E-04	1.922E-04	-1.973E-04	7.058E-05
8	3.00000	0.14382	0.773	296.596	0.582	135.840
	(STRAIN)		-1.263E-04	1.577E-04	-1.265E-04	3.184E-06
8	7.20000	0.14413	3.143	56.092	1.414	20.672
	(STRAIN)		-5.780E-05	1.209E-04	-6.363E-05	1.198E-06
8	15.50000	0.14436	8.960	26.815	1.404	4.617
	(STRAIN)		1.508E-06	6.177E-05	-2.399E-05	-1.326E-05
8	23.00000	0.14430	15.163	16.371	-74.703	8.710
	(STRAIN)		2.523E-05	2.631E-05	-5.565E-05	-5.465E-05
8	30.50000	0.14399	18.494	22.710	-207.873	18.330
	(STRAIN)		5.557E-05	5.937E-05	-1.482E-04	-1.483E-04
9	0.00000	0.14695	0.000	524.064	75.689	436.938
	(STRAIN)		-2.314E-04	1.990E-04	-2.314E-04	1.138E-04
9	3.00000	0.14145	-1.451	339.692	-3.214	246.726
	(STRAIN)		-1.725E-04	1.550E-04	-1.742E-04	6.446E-05
9	7.20000	0.14192	-3.140	68.424	-17.825	56.859
	(STRAIN)		-1.046E-04	1.369E-04	-1.542E-04	7.649E-05
9	15.50000	0.14251	2.525	60.912	-43.665	21.965
	(STRAIN)		-2.579E-05	1.713E-04	-1.817E-04	1.147E-05
9	23.00000	0.14248	14.517	55.358	-98.053	-63.345
	(STRAIN)		3.781E-05	7.456E-05	-6.351E-05	-6.308E-05
9	30.50000	0.14195	21.524	21.584	-277.563	-90.105
	(STRAIN)		1.001E-04	1.002E-04	-1.691E-04	-1.767E-04

10	0.00000	0.15788	600.000	1829.074	880.385	1801.835
	(STRAIN)		-4.781E-04	4.326E-04	-4.781E-04	4.038E-04
10	3.00000	0.15129	591.814	593.208	324.111	388.774
	(STRAIN)		1.850E-04	1.864E-04	-7.197E-05	-7.597E-05
10	7.20000	0.14713	489.634	491.311	143.260	159.122
	(STRAIN)		9.580E-04	9.637E-04	-2.110E-04	-2.129E-04
10	15.50000	0.14113	271.627	281.176	140.299	149.636
	(STRAIN)		4.170E-04	4.492E-04	-2.621E-05	1.790E-06
10	23.00000	0.14025	105.813	112.146	-140.668	-133.114
	(STRAIN)		1.329E-04	1.386E-04	-8.889E-05	-8.956E-05
10	30.50000	0.13895	29.052	29.087	-479.974	-456.134
	(STRAIN)		2.378E-04	2.378E-04	-2.203E-04	-2.283E-04
11	0.00000	0.12628	0.000	444.351	67.825	376.443
	(STRAIN)		-1.955E-04	1.659E-04	-1.956E-04	8.751E-05
11	3.00000	0.11930	-1.722	289.246	-5.287	218.495
	(STRAIN)		-1.490E-04	1.303E-04	-1.525E-04	4.265E-05
11	7.20000	0.11972	-3.796	67.635	-26.810	51.786
	(STRAIN)		-9.385E-05	1.472E-04	-1.715E-04	4.989E-05
11	15.50000	0.12026	0.507	69.666	-56.374	19.490
	(STRAIN)		-2.697E-05	2.064E-04	-2.189E-04	4.541E-06
11	23.00000	0.12025	11.256	64.203	-84.149	-76.924
	(STRAIN)		3.273E-05	8.039E-05	-5.313E-05	-6.261E-05
11	30.50000	0.11978	17.660	18.135	-247.995	-86.108
	(STRAIN)		8.962E-05	9.005E-05	-1.495E-04	-1.792E-04
12	0.00000	0.10097	0.000	237.123	24.395	136.846
	(STRAIN)		-9.343E-05	1.108E-04	-9.343E-05	7.032E-06
12	3.00000	0.09836	0.650	158.616	-5.328	46.897
	(STRAIN)		-5.810E-05	9.355E-05	-6.384E-05	-3.087E-05
12	7.20000	0.09850	1.702	29.999	-17.662	24.685
	(STRAIN)		-2.665E-05	6.885E-05	-9.200E-05	-2.266E-05
12	15.50000	0.09861	4.622	28.757	-22.672	11.170
	(STRAIN)		4.994E-07	8.196E-05	-9.162E-05	-1.356E-05
12	23.00000	0.09859	7.801	36.107	-37.078	-11.094
	(STRAIN)		9.836E-06	3.531E-05	-3.055E-05	-3.591E-05
12	30.50000	0.09847	9.527	41.331	-110.309	8.753
	(STRAIN)		2.263E-05	5.125E-05	-8.523E-05	-9.992E-05

PERIOD NO. 1 LOAD GROUP NO. 9

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.14733	0.000	518.410	79.129	439.184
	(STRAIN)		-2.281E-04	1.936E-04	-2.281E-04	1.021E-04
1	3.00000	0.13918	-2.010	337.454	-6.168	254.911
	(STRAIN)		-1.739E-04	1.520E-04	-1.779E-04	4.976E-05
1	7.20000	0.13967	-4.429	78.908	-31.279	60.417
	(STRAIN)		-1.095E-04	1.718E-04	-2.001E-04	5.820E-05
1	15.50000	0.14031	0.592	81.277	-65.770	22.739
	(STRAIN)		-3.147E-05	2.408E-04	-2.554E-04	5.298E-06
1	23.00000	0.14029	13.132	74.904	-98.174	-89.745
	(STRAIN)		3.819E-05	9.378E-05	-6.199E-05	-7.304E-05
1	30.50000	0.13974	20.604	21.158	-289.328	-100.459
	(STRAIN)		1.046E-04	1.051E-04	-1.744E-04	-2.091E-04
2	0.00000	0.18420	700.000	2133.955	1027.115	2102.106
	(STRAIN)		-5.578E-04	5.047E-04	-5.578E-04	4.710E-04
2	3.00000	0.17650	690.449	692.076	378.128	453.572
	(STRAIN)		2.159E-04	2.174E-04	-8.397E-05	-8.864E-05

2	7.20000	0.17165	571.240	573.197	167.137	185.642
	(STRAIN)		1.118E-03	1.124E-03	-2.461E-04	-2.484E-04
2	15.50000	0.16465	316.898	328.038	163.681	174.577
	(STRAIN)		4.865E-04	5.241E-04	-3.059E-05	2.088E-06
2	23.00000	0.16362	123.448	130.837	-164.113	-155.300
	(STRAIN)		1.551E-04	1.618E-04	-1.037E-04	-1.045E-04
2	30.50000	0.16210	33.894	33.935	-559.969	-532.157
	(STRAIN)		2.774E-04	2.775E-04	-2.571E-04	-2.663E-04
3	0.00000	0.17144	0.000	611.408	88.304	509.760
	(STRAIN)		-2.700E-04	2.322E-04	-2.700E-04	1.328E-04
3	3.00000	0.16502	-1.693	396.308	-3.750	287.847
	(STRAIN)		-2.012E-04	1.809E-04	-2.032E-04	7.520E-05
3	7.20000	0.16558	-3.663	79.828	-20.796	66.335
	(STRAIN)		-1.221E-04	1.597E-04	-1.799E-04	8.924E-05
3	15.50000	0.16626	2.946	71.064	-50.943	25.626
	(STRAIN)		-3.009E-05	1.998E-04	-2.120E-04	1.338E-05
3	23.00000	0.16622	16.936	64.584	-114.395	-73.902
	(STRAIN)		4.411E-05	8.699E-05	-7.409E-05	-7.359E-05
3	30.50000	0.16561	25.111	25.181	-323.823	-105.122
	(STRAIN)		1.168E-04	1.169E-04	-1.972E-04	-2.062E-04
4	0.00000	0.17365	0.000	527.247	53.946	379.885
	(STRAIN)		-2.301E-04	2.242E-04	-2.301E-04	8.234E-05
4	3.00000	0.16779	0.902	346.029	0.679	158.480
	(STRAIN)		-1.473E-04	1.840E-04	-1.475E-04	3.715E-06
4	7.20000	0.16815	3.667	65.441	1.650	24.118
	(STRAIN)		-6.743E-05	1.411E-04	-7.424E-05	1.398E-06
4	15.50000	0.16842	10.453	31.284	1.639	5.386
	(STRAIN)		1.759E-06	7.206E-05	-2.799E-05	-1.547E-05
4	23.00000	0.16835	17.690	19.099	-87.154	10.162
	(STRAIN)		2.943E-05	3.070E-05	-6.493E-05	-6.376E-05
4	30.50000	0.16799	21.576	26.496	-242.519	21.384
	(STRAIN)		6.483E-05	6.926E-05	-1.729E-04	-1.730E-04
5	0.00000	0.18839	0.000	660.890	92.845	571.471
	(STRAIN)		-2.996E-04	2.457E-04	-2.996E-04	1.544E-04
5	3.00000	0.17610	-2.351	413.332	-4.604	280.999
	(STRAIN)		-2.046E-04	1.945E-04	-2.067E-04	6.354E-05
5	7.20000	0.17667	-3.520	80.282	-21.911	68.671
	(STRAIN)		-1.230E-04	1.598E-04	-1.851E-04	7.885E-05
5	15.50000	0.17735	3.594	72.629	-52.150	26.931
	(STRAIN)		-2.936E-05	2.036E-04	-2.175E-04	9.893E-06
5	23.00000	0.17732	17.986	69.763	-117.804	-71.096
	(STRAIN)		4.399E-05	9.059E-05	-7.822E-05	-7.980E-05
5	30.50000	0.17670	26.372	26.584	-335.953	-87.549
	(STRAIN)		1.163E-04	1.165E-04	-2.097E-04	-2.228E-04
6	0.00000	0.21225	700.000	2215.172	1034.139	2181.645
	(STRAIN)		-6.003E-04	5.335E-04	-6.003E-04	5.013E-04
6	3.00000	0.19961	690.102	692.130	373.297	491.142
	(STRAIN)		2.059E-04	2.079E-04	-9.823E-05	-9.823E-05
6	7.20000	0.19478	571.657	573.703	165.762	192.944
	(STRAIN)		1.113E-03	1.120E-03	-2.564E-04	-2.564E-04
6	15.50000	0.18780	318.441	329.899	166.277	174.390
	(STRAIN)		4.880E-04	5.267E-04	-2.556E-05	1.826E-06
6	23.00000	0.18677	125.949	133.153	-171.636	-145.174
	(STRAIN)		1.562E-04	1.627E-04	-1.116E-04	-1.051E-04
6	30.50000	0.18523	36.884	36.915	-565.095	-526.808
	(STRAIN)		2.794E-04	2.794E-04	-2.624E-04	-2.624E-04
7	0.00000	0.18839	0.000	660.890	92.845	571.471
	(STRAIN)		-2.996E-04	2.457E-04	-2.996E-04	1.544E-04
7	3.00000	0.17610	-2.351	413.332	-4.604	280.999

	(STRAIN)		-2.046E-04	1.945E-04	-2.067E-04	6.354E-05
7	7.20000	0.17667	-3.520	80.282	-21.911	68.671
	(STRAIN)		-1.230E-04	1.598E-04	-1.851E-04	7.885E-05
7	15.50000	0.17735	3.594	72.629	-52.150	26.931
	(STRAIN)		-2.936E-05	2.036E-04	-2.175E-04	9.893E-06
7	23.00000	0.17732	17.986	69.763	-117.804	-71.096
	(STRAIN)		4.399E-05	9.059E-05	-7.822E-05	-7.980E-05
7	30.50000	0.17670	26.372	26.584	-335.953	-87.549
	(STRAIN)		1.163E-04	1.165E-04	-2.097E-04	-2.228E-04
8	0.00000	0.17365	0.000	527.247	53.946	379.885
	(STRAIN)		-2.301E-04	2.242E-04	-2.301E-04	8.234E-05
8	3.00000	0.16779	0.902	346.029	0.679	158.480
	(STRAIN)		-1.473E-04	1.840E-04	-1.475E-04	3.715E-06
8	7.20000	0.16815	3.667	65.441	1.650	24.118
	(STRAIN)		-6.743E-05	1.411E-04	-7.424E-05	1.398E-06
8	15.50000	0.16842	10.453	31.284	1.638	5.386
	(STRAIN)		1.759E-06	7.206E-05	-2.799E-05	-1.547E-05
8	23.00000	0.16835	17.690	19.099	-87.154	10.162
	(STRAIN)		2.943E-05	3.070E-05	-6.493E-05	-6.376E-05
8	30.50000	0.16799	21.576	26.496	-242.519	21.384
	(STRAIN)		6.483E-05	6.926E-05	-1.729E-04	-1.730E-04
9	0.00000	0.17144	0.000	611.408	88.304	509.760
	(STRAIN)		-2.700E-04	2.322E-04	-2.700E-04	1.328E-04
9	3.00000	0.16502	-1.693	396.307	-3.750	287.847
	(STRAIN)		-2.012E-04	1.809E-04	-2.032E-04	7.520E-05
9	7.20000	0.16558	-3.663	79.828	-20.796	66.335
	(STRAIN)		-1.221E-04	1.597E-04	-1.799E-04	8.924E-05
9	15.50000	0.16626	2.946	71.064	-50.943	25.626
	(STRAIN)		-3.009E-05	1.998E-04	-2.120E-04	1.338E-05
9	23.00000	0.16622	16.936	64.584	-114.395	-73.902
	(STRAIN)		4.411E-05	8.699E-05	-7.409E-05	-7.359E-05
9	30.50000	0.16561	25.111	25.181	-323.823	-105.122
	(STRAIN)		1.168E-04	1.169E-04	-1.972E-04	-2.062E-04
10	0.00000	0.18420	700.000	2133.908	1027.115	2102.153
	(STRAIN)		-5.578E-04	5.047E-04	-5.578E-04	4.710E-04
10	3.00000	0.17650	690.449	692.076	378.129	453.571
	(STRAIN)		2.159E-04	2.174E-04	-8.397E-05	-8.864E-05
10	7.20000	0.17165	571.240	573.197	167.137	185.642
	(STRAIN)		1.118E-03	1.124E-03	-2.461E-04	-2.484E-04
10	15.50000	0.16465	316.898	328.038	163.682	174.575
	(STRAIN)		4.865E-04	5.241E-04	-3.058E-05	2.088E-06
10	23.00000	0.16362	123.448	130.837	-164.113	-155.300
	(STRAIN)		1.551E-04	1.618E-04	-1.037E-04	-1.045E-04
10	30.50000	0.16210	33.894	33.935	-559.969	-532.157
	(STRAIN)		2.774E-04	2.775E-04	-2.571E-04	-2.663E-04
11	0.00000	0.14733	0.000	518.410	79.129	439.184
	(STRAIN)		-2.281E-04	1.936E-04	-2.281E-04	1.021E-04
11	3.00000	0.13918	-2.010	337.454	-6.168	254.911
	(STRAIN)		-1.739E-04	1.520E-04	-1.779E-04	4.976E-05
11	7.20000	0.13967	-4.429	78.908	-31.279	60.417
	(STRAIN)		-1.095E-04	1.718E-04	-2.001E-04	5.820E-05
11	15.50000	0.14031	0.592	81.277	-65.770	22.739
	(STRAIN)		-3.147E-05	2.408E-04	-2.554E-04	5.298E-06
11	23.00000	0.14029	13.132	74.904	-98.174	-89.745
	(STRAIN)		3.819E-05	9.378E-05	-6.199E-05	-7.304E-05
11	30.50000	0.13974	20.604	21.158	-289.328	-100.459
	(STRAIN)		1.046E-04	1.051E-04	-1.744E-04	-2.091E-04
12	0.00000	0.11780	0.000	276.644	28.460	159.654
	(STRAIN)		-1.090E-04	1.292E-04	-1.090E-04	8.204E-06

12	3.00000	0.11476	0.758	185.052	-6.216	54.713
	(STRAIN)		-6.778E-05	1.091E-04	-7.448E-05	-3.601E-05
12	7.20000	0.11492	1.986	34.998	-20.605	28.800
	(STRAIN)		-3.109E-05	8.033E-05	-1.073E-04	-2.643E-05
12	15.50000	0.11505	5.392	33.550	-26.451	13.032
	(STRAIN)		5.826E-07	9.562E-05	-1.069E-04	-1.582E-05
12	23.00000	0.11502	9.101	42.124	-43.257	-12.943
	(STRAIN)		1.148E-05	4.120E-05	-3.565E-05	-4.190E-05
12	30.50000	0.11488	11.114	48.220	-128.694	10.212
	(STRAIN)		2.640E-05	5.979E-05	-9.943E-05	-1.166E-04

Anexo B5
GR15 – 15cm Cranular/ 15 Solo Cimento
Transversal Eixo YY

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INPUT FILE NAME  -C:\KENPAVE\para tcc\granular 15\transversal\granular 15
transversal.DAT

NUMBER OF PROBLEMS TO BE SOLVED =  1

TITLE -MOno G/SC

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
NUMBER OF PERIODS PER YEAR (NPY) =  1
NUMBER OF LOAD GROUPS (NLG) =  12
TOLERANCE FOR INTEGRATION (DEL) -- =  0.001
NUMBER OF LAYERS (NL)------------- =  4
NUMBER OF Z COORDINATES (NZ)------ =  6
LIMIT OF INTEGRATION CYCLES (ICL)- =  80
COMPUTING CODE (NSTD)------------- =  9
SYSTEM OF UNITS (NUNIT)------------=  1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m^3, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 3  15  15
POISSON'S RATIOS OF LAYERS (PR) ARE : 0.44  0.35  0.35  0.35
VERTICAL COORDINATES OF POINTS (ZC) ARE:  0  3  10.5  18  25.5  33
ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  4.000E+05
   3  1.500E+06   4  3.000E+04

LOAD GROUP NO. 1 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18
LOAD GROUP NO. 2 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18
LOAD GROUP NO. 3 HAS 1 CONTACT AREA
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
RADIAL COORDINATES OF  7  POINT(S) (RC) ARE :  0  3  6  9  12  15  18

LOAD GROUP NO. 4  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.000 10   0.000  70.000
```

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 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 5  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 6  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 7  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 8  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 9  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
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  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 10  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 11  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

LOAD GROUP NO. 12  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  12
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1   0.000 -87.500  2   0.000 -70.000
  3   0.000 -52.500  4   0.000 -35.000  5   0.000 -17.500  6   0.000   0.000
  7   0.000  17.500  8   0.000  35.000  9   0.000  52.500 10   0.000  70.000
 11   0.000  87.500 12   0.000 105.000

PERIOD NO.  1   LOAD GROUP NO.  1

   RADIAL     VERTICAL     VERTICAL   VERTICAL    RADIAL  TANGENTIAL   SHEAR
 COORDINATE  COORDINATE  DISPLACEMENT  STRESS     STRESS    STRESS     STRESS
                                      (STRAIN)   (STRAIN)  (STRAIN)   (STRAIN)
   0.00000     0.00000     0.05015    520.000   1363.145   1363.145     0.000
  (STRAIN)                          -3.134E-04  2.949E-04  2.949E-04  .000E+00
   0.00000     3.00000     0.04905    510.394    170.528    170.528     0.000
  (STRAIN)                           2.402E-04 -8.605E-05 -8.605E-05  .000E+00
   0.00000    10.50000     0.04259    337.575     64.998     64.998     0.000
  (STRAIN)                           7.302E-04 -1.898E-04 -1.898E-04  .000E+00
   0.00000    18.00000     0.03860    191.244     97.165     97.165     0.000
  (STRAIN)                           3.081E-04 -9.445E-06 -9.445E-06  .000E+00
   0.00000    25.50000     0.03794     70.469    -90.681    -90.681     0.000
  (STRAIN)                           8.930E-05 -5.574E-05 -5.574E-05  .000E+00
   0.00000    33.00000     0.03712     13.728   -296.641   -296.641     0.000
  (STRAIN)                           1.476E-04 -1.317E-04 -1.317E-04  .000E+00
   3.00000     0.00000     0.04891    520.000   1181.208   1197.548     0.000
  (STRAIN)                          -2.777E-04  2.513E-04  2.670E-04 -.194E-10
   3.00000     3.00000     0.04856    502.008    144.422    150.642    24.763
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(STRAIN)			2.481E-04	-9.516E-05	-8.919E-05	.475E-04
3.00000	10.50000	0.04230	323.573	66.181	62.796	34.039
(STRAIN)			6.961E-04	-1.726E-04	-1.840E-04	.230E-03
3.00000	18.00000	0.03850	183.909	94.383	93.932	27.704
(STRAIN)			2.950E-04	-7.153E-06	-8.676E-06	.187E-03
3.00000	25.50000	0.03786	68.312	-88.924	-90.052	18.774
(STRAIN)			8.730E-05	-5.421E-05	-5.523E-05	.338E-04
3.00000	33.00000	0.03705	13.617	-291.687	-293.628	0.645
(STRAIN)			1.457E-04	-1.291E-04	-1.309E-04	.116E-05
6.00000	0.00000	0.04678	520.000	951.018	1009.756	0.000
(STRAIN)			-2.354E-04	1.883E-04	2.447E-04	-.357E-10
6.00000	3.00000	0.04700	467.536	81.826	96.963	61.128
(STRAIN)			2.592E-04	-1.110E-04	-9.650E-05	.117E-03
6.00000	10.50000	0.04145	282.363	70.387	56.743	63.948
(STRAIN)			5.947E-04	-1.207E-04	-1.668E-04	.432E-03
6.00000	18.00000	0.03819	163.258	86.490	84.821	51.372
(STRAIN)			2.582E-04	-8.450E-07	-6.478E-06	.347E-03
6.00000	25.50000	0.03762	62.233	-83.926	-88.206	35.476
(STRAIN)			8.165E-05	-4.989E-05	-5.374E-05	.639E-04
6.00000	33.00000	0.03685	13.294	-277.415	-284.889	1.246
(STRAIN)			1.401E-04	-1.216E-04	-1.283E-04	.224E-05
9.00000	0.00000	0.04360	520.000	643.197	704.719	0.000
(STRAIN)			-1.736E-04	1.245E-04	1.835E-04	-.432E-10
9.00000	3.00000	0.04423	369.040	85.087	52.943	119.000
(STRAIN)			2.055E-04	-6.706E-05	-9.791E-05	.228E-03
9.00000	10.50000	0.04018	218.907	77.839	48.466	83.204
(STRAIN)			4.368E-04	-3.935E-05	-1.385E-04	.562E-03
9.00000	18.00000	0.03771	133.209	74.781	71.520	67.792
(STRAIN)			2.050E-04	7.815E-06	-3.191E-06	.458E-03
9.00000	25.50000	0.03724	53.292	-76.442	-85.259	48.463
(STRAIN)			7.326E-05	-4.350E-05	-5.144E-05	.872E-04
9.00000	33.00000	0.03652	12.789	-255.466	-271.270	1.768
(STRAIN)			1.314E-04	-1.100E-04	-1.242E-04	.318E-05
12.00000	0.00000	0.04073	0.000	450.294	486.738	0.000
(STRAIN)			-1.350E-04	9.588E-05	1.309E-04	.183E-10
12.00000	3.00000	0.04056	156.606	402.861	154.156	128.297
(STRAIN)			-5.899E-05	1.774E-04	-6.134E-05	.246E-03
12.00000	10.50000	0.03868	147.317	84.488	40.083	85.961
(STRAIN)			2.593E-04	4.724E-05	-1.026E-04	.580E-03
12.00000	18.00000	0.03709	99.429	61.121	56.456	75.499
(STRAIN)			1.457E-04	1.640E-05	6.598E-07	.510E-03
12.00000	25.50000	0.03673	42.943	-67.500	-81.385	56.839
(STRAIN)			6.337E-05	-3.603E-05	-4.853E-05	.102E-03
12.00000	33.00000	0.03608	12.143	-228.164	-253.968	2.185
(STRAIN)			1.206E-04	-9.568E-05	-1.189E-04	.393E-05
15.00000	0.00000	0.03863	0.000	349.596	374.391	0.000
(STRAIN)			-1.177E-04	8.157E-05	1.054E-04	.152E-10
15.00000	3.00000	0.03759	41.838	418.150	192.979	61.673
(STRAIN)			-1.514E-04	2.099E-04	-6.277E-06	.118E-03
15.00000	10.50000	0.03721	85.689	84.381	33.107	74.810
(STRAIN)			1.114E-04	1.070E-04	-6.604E-05	.505E-03
15.00000	18.00000	0.03638	67.621	47.444	42.065	75.279
(STRAIN)			9.073E-05	2.263E-05	4.481E-06	.508E-03
15.00000	25.50000	0.03612	32.661	-58.204	-76.848	60.561
(STRAIN)			5.329E-05	-2.849E-05	-4.527E-05	.109E-03
15.00000	33.00000	0.03554	11.409	-198.172	-234.442	2.489
(STRAIN)			1.085E-04	-8.007E-05	-1.127E-04	.448E-05
18.00000	0.00000	0.03705	0.000	290.159	310.141	0.000
(STRAIN)			-1.083E-04	7.262E-05	9.181E-05	-.304E-11

18.00000	3.00000	0.03567	9.330	310.451	178.193	28.376
(STRAIN)			-1.371E-04	1.520E-04	2.499E-05	.545E-04
18.00000	10.50000	0.03591	43.393	76.322	27.935	58.731
(STRAIN)			1.726E-05	1.284E-04	-3.491E-05	.396E-03
18.00000	18.00000	0.03563	41.707	35.231	30.039	69.595
(STRAIN)			4.716E-05	2.530E-05	7.777E-06	.470E-03
18.00000	25.50000	0.03546	23.601	-49.388	-71.873	60.293
(STRAIN)			4.403E-05	-2.166E-05	-4.190E-05	.109E-03
18.00000	33.00000	0.03495	10.639	-167.876	-213.998	2.683
(STRAIN)			9.620E-05	-6.447E-05	-1.060E-04	.483E-05

PERIOD NO. 1 LOAD GROUP NO. 2

RADIAL COORDINATE	VERTICAL COORDINATE	VERTICAL DISPLACEMENT	VERTICAL STRESS (STRAIN)	RADIAL STRESS (STRAIN)	TANGENTIAL STRESS (STRAIN)	SHEAR STRESS (STRAIN)
0.00000	0.00000	0.05786	600.000	1572.860	1572.860	0.000
(STRAIN)			-3.616E-04	3.403E-04	3.403E-04	.000E+00
0.00000	3.00000	0.05660	588.916	196.763	196.763	0.000
(STRAIN)			2.772E-04	-9.929E-05	-9.929E-05	.000E+00
0.00000	10.50000	0.04914	389.510	74.998	74.998	0.000
(STRAIN)			8.425E-04	-2.189E-04	-2.189E-04	.000E+00
0.00000	18.00000	0.04454	220.667	112.114	112.114	0.000
(STRAIN)			3.555E-04	-1.090E-05	-1.090E-05	.000E+00
0.00000	25.50000	0.04378	81.310	-104.632	-104.632	0.000
(STRAIN)			1.030E-04	-6.431E-05	-6.431E-05	.000E+00
0.00000	33.00000	0.04283	15.840	-342.279	-342.279	0.000
(STRAIN)			1.703E-04	-1.520E-04	-1.520E-04	.000E+00
3.00000	0.00000	0.05643	600.000	1362.932	1381.786	0.000
(STRAIN)			-3.204E-04	2.900E-04	3.081E-04	-.223E-10
3.00000	3.00000	0.05603	579.240	166.640	173.818	28.573
(STRAIN)			2.863E-04	-1.098E-04	-1.029E-04	.549E-04
3.00000	10.50000	0.04881	373.353	76.362	72.457	39.276
(STRAIN)			8.032E-04	-1.992E-04	-2.124E-04	.265E-03
3.00000	18.00000	0.04442	212.203	108.904	108.383	31.966
(STRAIN)			3.404E-04	-8.254E-06	-1.001E-05	.216E-03
3.00000	25.50000	0.04369	78.821	-102.604	-103.906	21.662
(STRAIN)			1.007E-04	-6.255E-05	-6.372E-05	.390E-04
3.00000	33.00000	0.04275	15.712	-336.562	-338.802	0.744
(STRAIN)			1.681E-04	-1.490E-04	-1.510E-04	.134E-05
6.00000	0.00000	0.05398	600.000	1097.328	1165.103	0.000
(STRAIN)			-2.716E-04	2.173E-04	2.824E-04	-.412E-10
6.00000	3.00000	0.05423	539.465	94.414	111.881	70.532
(STRAIN)			2.991E-04	-1.281E-04	-1.114E-04	.135E-03
6.00000	10.50000	0.04783	325.803	81.216	65.472	73.786
(STRAIN)			6.862E-04	-1.393E-04	-1.925E-04	.498E-03
6.00000	18.00000	0.04406	188.375	99.796	97.870	59.276
(STRAIN)			2.980E-04	-9.750E-07	-7.474E-06	.400E-03
6.00000	25.50000	0.04341	71.807	-96.838	-101.776	40.934
(STRAIN)			9.421E-05	-5.757E-05	-6.201E-05	.737E-04
6.00000	33.00000	0.04251	15.339	-320.094	-328.718	1.438
(STRAIN)			1.616E-04	-1.403E-04	-1.480E-04	.259E-05
9.00000	0.00000	0.05031	600.000	742.150	813.137	0.000
(STRAIN)			-2.003E-04	1.436E-04	2.118E-04	-.498E-10
9.00000	3.00000	0.05104	425.815	98.177	61.088	137.307
(STRAIN)			2.372E-04	-7.737E-05	-1.130E-04	.264E-03
9.00000	10.50000	0.04636	252.585	89.815	55.923	96.005
(STRAIN)			5.039E-04	-4.541E-05	-1.598E-04	.648E-03
9.00000	18.00000	0.04351	153.703	86.286	82.523	78.221

(STRAIN)			2.365E-04	9.017E-06	-3.681E-06	.528E-03
9.00000	25.50000	0.04297	61.491	-88.202	-98.376	55.918
(STRAIN)			8.453E-05	-5.019E-05	-5.935E-05	.101E-03
9.00000	33.00000	0.04213	14.756	-294.768	-313.004	2.039
(STRAIN)			1.517E-04	-1.269E-04	-1.433E-04	.367E-05
12.00000	0.00000	0.04700	0.000	519.571	561.620	0.000
(STRAIN)			-1.558E-04	1.106E-04	1.510E-04	.212E-10
12.00000	3.00000	0.04680	180.699	464.839	177.872	148.035
(STRAIN)			-6.806E-05	2.047E-04	-7.078E-05	.284E-03
12.00000	10.50000	0.04463	169.981	97.486	46.250	99.186
(STRAIN)			2.992E-04	5.451E-05	-1.184E-04	.670E-03
12.00000	18.00000	0.04280	114.725	70.524	65.142	87.115
(STRAIN)			1.681E-04	1.893E-05	7.614E-07	.588E-03
12.00000	25.50000	0.04238	49.549	-77.885	-93.906	65.583
(STRAIN)			7.312E-05	-4.157E-05	-5.599E-05	.118E-03
12.00000	33.00000	0.04163	14.011	-263.266	-293.040	2.521
(STRAIN)			1.391E-04	-1.104E-04	-1.372E-04	.454E-05
15.00000	0.00000	0.04458	0.000	403.379	431.990	0.000
(STRAIN)			-1.358E-04	9.412E-05	1.216E-04	.176E-10
15.00000	3.00000	0.04337	48.275	482.480	222.668	71.162
(STRAIN)			-1.747E-04	2.422E-04	-7.243E-06	.137E-03
15.00000	10.50000	0.04293	98.872	97.363	38.201	86.319
(STRAIN)			1.286E-04	1.235E-04	-7.620E-05	.583E-03
15.00000	18.00000	0.04198	78.024	54.743	48.537	86.861
(STRAIN)			1.047E-04	2.612E-05	5.170E-06	.586E-03
15.00000	25.50000	0.04168	37.686	-67.158	-88.670	69.878
(STRAIN)			6.148E-05	-3.288E-05	-5.224E-05	.126E-03
15.00000	33.00000	0.04101	13.164	-228.660	-270.510	2.872
(STRAIN)			1.252E-04	-9.239E-05	-1.301E-04	.517E-05
18.00000	0.00000	0.04275	0.000	334.798	357.855	0.000
(STRAIN)			-1.249E-04	8.380E-05	1.059E-04	-.351E-11
18.00000	3.00000	0.04116	10.765	358.212	205.608	32.742
(STRAIN)			-1.582E-04	1.753E-04	2.884E-05	.629E-04
18.00000	10.50000	0.04143	50.069	88.064	32.233	67.766
(STRAIN)			1.991E-05	1.481E-04	-4.028E-05	.457E-03
18.00000	18.00000	0.04111	48.123	40.651	34.660	80.302
(STRAIN)			5.441E-05	2.919E-05	8.974E-06	.542E-03
18.00000	25.50000	0.04091	27.232	-56.986	-82.930	69.569
(STRAIN)			5.080E-05	-2.499E-05	-4.834E-05	.125E-03
18.00000	33.00000	0.04032	12.276	-193.703	-246.920	3.096
(STRAIN)			1.110E-04	-7.438E-05	-1.223E-04	.557E-05

PERIOD NO. 1 LOAD GROUP NO. 3

RADIAL COORDINATE	VERTICAL COORDINATE	VERTICAL DISPLACEMENT	VERTICAL STRESS (STRAIN)	RADIAL STRESS (STRAIN)	TANGENTIAL STRESS (STRAIN)	SHEAR STRESS (STRAIN)
0.00000	0.00000	0.06750	700.000	1835.003	1835.003	0.000
(STRAIN)			-4.219E-04	3.970E-04	3.970E-04	.000E+00
0.00000	3.00000	0.06604	687.068	229.557	229.557	0.000
(STRAIN)			3.234E-04	-1.158E-04	-1.158E-04	.000E+00
0.00000	10.50000	0.05733	454.428	87.498	87.498	0.000
(STRAIN)			9.829E-04	-2.554E-04	-2.554E-04	.000E+00
0.00000	18.00000	0.05196	257.444	130.800	130.800	0.000
(STRAIN)			4.147E-04	-1.271E-05	-1.271E-05	.000E+00
0.00000	25.50000	0.05108	94.862	-122.071	-122.071	0.000
(STRAIN)			1.202E-04	-7.503E-05	-7.503E-05	.000E+00
0.00000	33.00000	0.04997	18.480	-399.325	-399.325	0.000
(STRAIN)			1.987E-04	-1.774E-04	-1.774E-04	.000E+00

3.00000	0.00000	0.06583	700.000	1590.087	1612.083	0.000
(STRAIN)			-3.738E-04	3.383E-04	3.595E-04	-.261E-10
3.00000	3.00000	0.06537	675.780	194.414	202.788	33.335
(STRAIN)			3.340E-04	-1.281E-04	-1.201E-04	.640E-04
3.00000	10.50000	0.05694	435.579	89.089	84.533	45.822
(STRAIN)			9.370E-04	-2.324E-04	-2.478E-04	.309E-03
3.00000	18.00000	0.05182	247.570	127.054	126.447	37.294
(STRAIN)			3.971E-04	-9.629E-06	-1.168E-05	.252E-03
3.00000	25.50000	0.05097	91.958	-119.705	-121.224	25.273
(STRAIN)			1.175E-04	-7.297E-05	-7.434E-05	.455E-04
3.00000	33.00000	0.04988	18.330	-392.656	-395.269	0.868
(STRAIN)			1.961E-04	-1.738E-04	-1.762E-04	.156E-05
6.00000	0.00000	0.06298	700.000	1280.216	1359.287	0.000
(STRAIN)			-3.169E-04	2.535E-04	3.294E-04	-.481E-10
6.00000	3.00000	0.06327	629.376	110.150	130.527	82.288
(STRAIN)			3.490E-04	-1.495E-04	-1.299E-04	.158E-03
6.00000	10.50000	0.05580	380.104	94.752	76.384	86.084
(STRAIN)			8.005E-04	-1.625E-04	-2.245E-04	.581E-03
6.00000	18.00000	0.05141	219.771	116.428	114.182	69.155
(STRAIN)			3.476E-04	-1.137E-06	-8.720E-06	.467E-03
6.00000	25.50000	0.05064	83.775	-112.977	-118.738	47.757
(STRAIN)			1.099E-04	-6.716E-05	-7.235E-05	.860E-04
6.00000	33.00000	0.04960	17.895	-373.443	-383.505	1.677
(STRAIN)			1.886E-04	-1.637E-04	-1.727E-04	.302E-05
9.00000	0.00000	0.05870	700.000	865.842	948.660	0.000
(STRAIN)			-2.336E-04	1.676E-04	2.471E-04	-.581E-10
9.00000	3.00000	0.05955	496.784	114.540	71.270	160.192
(STRAIN)			2.767E-04	-9.027E-05	-1.318E-04	.308E-03
9.00000	10.50000	0.05409	294.683	104.784	65.243	112.006
(STRAIN)			5.879E-04	-5.298E-05	-1.864E-04	.756E-03
9.00000	18.00000	0.05076	179.320	100.667	96.277	91.258
(STRAIN)			2.760E-04	1.052E-05	-4.295E-06	.616E-03
9.00000	25.50000	0.05013	71.739	-102.902	-114.772	65.238
(STRAIN)			9.862E-05	-5.856E-05	-6.924E-05	.117E-03
9.00000	33.00000	0.04916	17.216	-343.896	-365.171	2.379
(STRAIN)			1.769E-04	-1.481E-04	-1.672E-04	.428E-05
12.00000	0.00000	0.05483	0.000	606.166	655.224	0.000
(STRAIN)			-1.817E-04	1.291E-04	1.762E-04	.247E-10
12.00000	3.00000	0.05460	210.815	542.313	207.518	172.708
(STRAIN)			-7.941E-05	2.388E-04	-8.257E-05	.332E-03
12.00000	10.50000	0.05207	198.311	113.734	53.958	115.717
(STRAIN)			3.490E-04	6.360E-05	-1.381E-04	.781E-03
12.00000	18.00000	0.04993	133.846	82.278	75.999	101.634
(STRAIN)			1.961E-04	2.208E-05	8.882E-07	.686E-03
12.00000	25.50000	0.04945	57.807	-90.866	-109.557	76.514
(STRAIN)			8.530E-05	-4.850E-05	-6.532E-05	.138E-03
12.00000	33.00000	0.04856	16.346	-307.144	-341.880	2.941
(STRAIN)			1.623E-04	-1.288E-04	-1.601E-04	.529E-05
15.00000	0.00000	0.05201	0.000	470.609	503.988	0.000
(STRAIN)			-1.584E-04	1.098E-04	1.418E-04	.205E-10
15.00000	3.00000	0.05060	56.320	562.894	259.779	83.022
(STRAIN)			-2.038E-04	2.825E-04	-8.450E-06	.159E-03
15.00000	10.50000	0.05008	115.351	113.590	44.567	100.705
(STRAIN)			1.500E-04	1.440E-04	-8.890E-05	.680E-03
15.00000	18.00000	0.04897	91.028	63.867	56.626	101.338
(STRAIN)			1.221E-04	3.047E-05	6.032E-06	.684E-03
15.00000	25.50000	0.04863	43.967	-78.351	-103.449	81.525
(STRAIN)			7.173E-05	-3.836E-05	-6.094E-05	.147E-03
15.00000	33.00000	0.04784	15.358	-266.770	-315.595	3.351

(STRAIN)			1.461E-04	-1.078E-04	-1.517E-04	.603E-05
18.00000	0.00000	0.04988	0.000	390.598	417.497	0.000
(STRAIN)			-1.457E-04	9.776E-05	1.236E-04	-.410E-11
18.00000	3.00000	0.04802	12.559	417.914	239.876	38.199
(STRAIN)			-1.846E-04	2.046E-04	3.364E-05	.733E-04
18.00000	10.50000	0.04834	58.414	102.742	37.605	79.061
(STRAIN)			2.323E-05	1.728E-04	-4.700E-05	.534E-03
18.00000	18.00000	0.04796	56.144	47.426	40.437	93.686
(STRAIN)			6.348E-05	3.406E-05	1.047E-05	.632E-03
18.00000	25.50000	0.04773	31.770	-66.484	-96.752	81.164
(STRAIN)			5.927E-05	-2.916E-05	-5.640E-05	.146E-03
18.00000	33.00000	0.04704	14.322	-225.987	-288.074	3.611
(STRAIN)			1.295E-04	-8.678E-05	-1.427E-04	.650E-05

PERIOD NO. 1 LOAD GROUP NO. 4

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.04010	0.000	94.322	7.725	63.762
	(STRAIN)		-4.122E-05	4.191E-05	-4.122E-05	1.257E-05
1	3.00000	0.03720	0.140	58.693	-5.740	4.590
	(STRAIN)		-1.675E-05	3.947E-05	-2.239E-05	-1.812E-05
1	10.50000	0.03726	0.981	9.133	-7.142	7.724
	(STRAIN)		-5.189E-06	2.232E-05	-3.260E-05	-9.848E-06
1	18.00000	0.03728	2.022	9.653	-7.165	3.241
	(STRAIN)		1.812E-06	2.757E-05	-2.919E-05	-3.441E-06
1	25.50000	0.03727	3.043	16.549	-14.842	-0.703
	(STRAIN)		2.504E-06	1.466E-05	-1.359E-05	-1.359E-05
1	33.00000	0.03724	3.536	28.439	-39.068	3.375
	(STRAIN)		4.875E-06	2.729E-05	-3.347E-05	-3.347E-05
2	0.00000	0.04476	0.000	129.384	11.525	92.299
	(STRAIN)		-5.734E-05	5.580E-05	-5.734E-05	2.020E-05
2	3.00000	0.04231	0.262	86.283	-2.546	25.139
	(STRAIN)		-3.169E-05	5.089E-05	-3.438E-05	-1.050E-05
2	10.50000	0.04243	1.345	14.005	-10.108	12.876
	(STRAIN)		-1.014E-05	3.259E-05	-4.879E-05	-6.064E-06
2	18.00000	0.04246	2.769	15.338	-11.881	4.450
	(STRAIN)		2.427E-06	4.485E-05	-4.702E-05	-4.596E-06
2	25.50000	0.04244	4.243	18.038	-23.764	-5.193
	(STRAIN)		6.366E-06	1.878E-05	-1.884E-05	-1.884E-05
2	33.00000	0.04236	4.973	21.482	-60.710	4.597
	(STRAIN)		1.256E-05	2.741E-05	-4.656E-05	-4.656E-05
3	0.00000	0.05023	0.000	181.947	19.223	138.524
	(STRAIN)		-8.119E-05	7.503E-05	-8.119E-05	3.334E-05
3	3.00000	0.04815	0.109	126.418	-2.518	67.734
	(STRAIN)		-5.611E-05	6.515E-05	-5.863E-05	6.289E-06
3	10.50000	0.04837	1.108	24.253	-15.042	18.026
	(STRAIN)		-2.009E-05	5.802E-05	-7.460E-05	3.515E-06
3	18.00000	0.04845	2.834	24.111	-20.263	6.101
	(STRAIN)		8.616E-07	7.267E-05	-7.709E-05	-5.286E-06
3	25.50000	0.04841	5.446	22.434	-37.903	-17.114
	(STRAIN)		1.250E-05	2.779E-05	-2.651E-05	-2.651E-05
3	33.00000	0.04826	7.017	9.116	-96.045	2.335
	(STRAIN)		2.605E-05	2.794E-05	-6.670E-05	-6.670E-05
4	0.00000	0.05653	0.000	256.715	36.291	216.446
	(STRAIN)		-1.146E-04	9.701E-05	-1.146E-04	5.835E-05
4	3.00000	0.05468	-0.743	179.945	-2.948	137.779

	(STRAIN)		-9.305E-05	8.041E-05	-9.516E-05	3.782E-05
4	10.50000	0.05511	-1.968	44.067	-21.726	24.874
	(STRAIN)		-4.796E-05	1.074E-04	-1.146E-04	4.073E-05
4	18.00000	0.05534	0.811	42.609	-37.254	8.921
	(STRAIN)		-9.755E-06	1.313E-04	-1.382E-04	2.845E-06
4	25.50000	0.05530	6.665	36.607	-61.714	-46.936
	(STRAIN)		2.281E-05	4.976E-05	-3.873E-05	-3.873E-05
4	33.00000	0.05501	10.187	10.496	-161.048	-42.363
	(STRAIN)		5.418E-05	5.446E-05	-9.993E-05	-9.993E-05
5	0.00000	0.06533	0.000	439.903	121.301	394.442
	(STRAIN)		-1.639E-04	1.420E-04	-1.639E-04	9.834E-05
5	3.00000	0.06313	12.410	389.317	7.800	267.333
	(STRAIN)		-1.830E-04	1.788E-04	-1.874E-04	6.173E-05
5	10.50000	0.06347	49.500	144.922	-9.989	40.641
	(STRAIN)		1.344E-05	3.355E-04	-1.873E-04	-1.647E-05
5	18.00000	0.06317	47.011	129.406	-44.604	35.854
	(STRAIN)		5.309E-05	3.312E-04	-2.561E-04	1.543E-05
5	25.50000	0.06296	28.407	72.251	-100.070	-99.847
	(STRAIN)		5.535E-05	9.481E-05	-6.027E-05	-6.007E-05
5	33.00000	0.06232	15.431	15.538	-285.875	-180.877
	(STRAIN)		1.192E-04	1.193E-04	-1.520E-04	-1.520E-04
6	0.00000	0.08180	520.000	1535.141	757.754	1516.944
	(STRAIN)		-3.901E-04	3.562E-04	-3.901E-04	3.387E-04
6	3.00000	0.07985	509.504	510.070	279.924	291.409
	(STRAIN)		1.719E-04	1.725E-04	-4.848E-05	-4.794E-05
6	10.50000	0.07373	334.723	336.559	81.296	84.418
	(STRAIN)		6.902E-04	6.964E-04	-1.651E-04	-1.651E-04
6	18.00000	0.06995	190.242	199.457	92.026	103.168
	(STRAIN)		2.967E-04	3.278E-04	-3.473E-05	-3.634E-06
6	25.50000	0.06926	74.330	79.705	-135.358	-114.668
	(STRAIN)		1.066E-04	1.115E-04	-8.208E-05	-8.208E-05
6	33.00000	0.06821	20.618	20.635	-414.832	-344.621
	(STRAIN)		1.909E-04	1.910E-04	-2.010E-04	-2.010E-04
7	0.00000	0.07458	0.000	637.611	214.380	596.632
	(STRAIN)		-2.191E-04	1.872E-04	-2.191E-04	1.478E-04
7	3.00000	0.07187	24.709	653.929	24.709	362.294
	(STRAIN)		-2.816E-04	3.224E-04	-2.816E-04	4.246E-05
7	10.50000	0.07222	98.100	156.225	57.357	98.100
	(STRAIN)		5.837E-05	2.545E-04	-7.914E-05	-7.914E-05
7	18.00000	0.07151	91.058	91.058	63.681	74.247
	(STRAIN)		1.070E-04	1.070E-04	1.456E-05	1.456E-05
7	25.50000	0.07114	49.986	49.986	-145.445	-101.598
	(STRAIN)		9.097E-05	9.097E-05	-8.492E-05	-8.492E-05
7	33.00000	0.07010	21.537	21.537	-434.838	-345.718
	(STRAIN)		1.965E-04	1.965E-04	-2.142E-04	-2.142E-04
8	0.00000	0.08180	520.000	1535.141	757.754	1516.944
	(STRAIN)		-3.901E-04	3.562E-04	-3.901E-04	3.387E-04
8	3.00000	0.07985	509.504	510.070	279.924	291.409
	(STRAIN)		1.719E-04	1.725E-04	-4.848E-05	-4.794E-05
8	10.50000	0.07373	334.723	336.559	81.296	84.418
	(STRAIN)		6.902E-04	6.964E-04	-1.651E-04	-1.651E-04
8	18.00000	0.06995	190.242	199.457	92.026	103.168
	(STRAIN)		2.967E-04	3.278E-04	-3.473E-05	-3.634E-06
8	25.50000	0.06926	74.330	79.705	-135.358	-114.668
	(STRAIN)		1.066E-04	1.115E-04	-8.208E-05	-8.208E-05
8	33.00000	0.06821	20.618	20.635	-414.832	-344.621
	(STRAIN)		1.909E-04	1.910E-04	-2.010E-04	-2.010E-04
9	0.00000	0.06568	0.000	450.560	127.471	404.436
	(STRAIN)		-1.658E-04	1.443E-04	-1.658E-04	1.001E-04

9	3.00000	0.06351	16.067	409.020	10.673	271.266
	(STRAIN)		-1.873E-04	1.900E-04	-1.924E-04	5.773E-05
9	10.50000	0.06378	55.663	151.246	-8.340	41.540
	(STRAIN)		2.647E-05	3.491E-04	-1.895E-04	-2.119E-04
9	18.00000	0.06341	50.992	133.799	-43.045	37.772
	(STRAIN)		5.964E-05	3.391E-04	-2.577E-04	1.502E-05
9	25.50000	0.06318	29.855	73.316	-101.394	-101.064
	(STRAIN)		5.700E-05	9.612E-05	-6.112E-05	-6.082E-05
9	33.00000	0.06253	15.608	15.711	-290.280	-186.505
	(STRAIN)		1.216E-04	1.217E-04	-1.537E-04	-1.537E-04
10	0.00000	0.05653	0.000	256.715	36.291	216.446
	(STRAIN)		-1.146E-04	9.701E-05	-1.146E-04	5.835E-05
10	3.00000	0.05468	-0.743	179.945	-2.948	137.779
	(STRAIN)		-9.305E-05	8.041E-05	-9.516E-05	3.782E-05
10	10.50000	0.05511	-1.968	44.067	-21.726	24.874
	(STRAIN)		-4.796E-05	1.074E-04	-1.146E-04	4.073E-05
10	18.00000	0.05534	0.811	42.609	-37.254	8.921
	(STRAIN)		-9.755E-06	1.313E-04	-1.382E-04	2.845E-06
10	25.50000	0.05530	6.665	36.607	-61.714	-46.936
	(STRAIN)		2.281E-05	4.976E-05	-3.873E-05	-3.873E-05
10	33.00000	0.05501	10.187	10.496	-161.048	-42.363
	(STRAIN)		5.418E-05	5.446E-05	-9.993E-05	-9.993E-05
11	0.00000	0.05023	0.000	181.947	19.223	138.524
	(STRAIN)		-8.119E-05	7.503E-05	-8.119E-05	3.334E-05
11	3.00000	0.04815	0.109	126.418	-2.518	67.734
	(STRAIN)		-5.611E-05	6.515E-05	-5.863E-05	6.289E-06
11	10.50000	0.04837	1.108	24.253	-15.042	18.026
	(STRAIN)		-2.009E-05	5.802E-05	-7.460E-05	3.515E-06
11	18.00000	0.04845	2.834	24.111	-20.263	6.101
	(STRAIN)		8.616E-07	7.267E-05	-7.709E-05	-5.286E-06
11	25.50000	0.04841	5.446	22.434	-37.903	-17.114
	(STRAIN)		1.250E-05	2.779E-05	-2.651E-05	-2.651E-05
11	33.00000	0.04826	7.017	9.116	-96.045	2.335
	(STRAIN)		2.605E-05	2.794E-05	-6.670E-05	-6.670E-05
12	0.00000	0.04476	0.000	129.384	11.525	92.299
	(STRAIN)		-5.734E-05	5.580E-05	-5.734E-05	2.020E-05
12	3.00000	0.04231	0.262	86.283	-2.546	25.139
	(STRAIN)		-3.169E-05	5.089E-05	-3.438E-05	-1.050E-05
12	10.50000	0.04243	1.345	14.005	-10.108	12.876
	(STRAIN)		-1.014E-05	3.259E-05	-4.879E-05	-6.064E-06
12	18.00000	0.04246	2.769	15.338	-11.881	4.450
	(STRAIN)		2.427E-06	4.485E-05	-4.702E-05	-4.596E-06
12	25.50000	0.04244	4.243	18.038	-23.764	-5.193
	(STRAIN)		6.366E-06	1.878E-05	-1.884E-05	-1.884E-05
12	33.00000	0.04236	4.973	21.482	-60.710	4.597
	(STRAIN)		1.256E-05	2.741E-05	-4.656E-05	-4.656E-05

PERIOD NO. 1 LOAD GROUP NO. 5

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.04627	0.000	108.833	8.913	73.572
	(STRAIN)		-4.756E-05	4.836E-05	-4.756E-05	1.451E-05
1	3.00000	0.04292	0.161	67.722	-6.623	5.297
	(STRAIN)		-1.932E-05	4.554E-05	-2.583E-05	-2.090E-05
1	10.50000	0.04300	1.132	10.538	-8.241	8.912
	(STRAIN)		-5.988E-06	2.576E-05	-3.762E-05	-1.136E-05

1	18.00000	0.04301	2.333	11.138	-8.267	3.739
	(STRAIN)		2.091E-06	3.181E-05	-3.369E-05	-3.970E-06
1	25.50000	0.04300	3.511	19.095	-17.125	-0.811
	(STRAIN)		2.890E-06	1.692E-05	-1.568E-05	-1.568E-05
1	33.00000	0.04297	4.080	32.814	-45.078	3.894
	(STRAIN)		5.625E-06	3.149E-05	-3.862E-05	-3.862E-05
2	0.00000	0.05165	0.000	149.290	13.299	106.498
	(STRAIN)		-6.617E-05	6.439E-05	-6.617E-05	2.331E-05
2	3.00000	0.04882	0.302	99.557	-2.938	29.006
	(STRAIN)		-3.656E-05	5.872E-05	-3.967E-05	-1.211E-05
2	10.50000	0.04896	1.552	16.160	-11.663	14.857
	(STRAIN)		-1.170E-05	3.760E-05	-5.630E-05	-6.996E-06
2	18.00000	0.04899	3.195	17.697	-13.709	5.134
	(STRAIN)		2.800E-06	5.175E-05	-5.425E-05	-5.303E-06
2	25.50000	0.04896	4.895	20.813	-27.420	-5.992
	(STRAIN)		7.345E-06	2.167E-05	-2.174E-05	-2.174E-05
2	33.00000	0.04888	5.738	24.787	-70.050	5.304
	(STRAIN)		1.449E-05	3.163E-05	-5.372E-05	-5.372E-05
3	0.00000	0.05796	0.000	209.939	22.181	159.835
	(STRAIN)		-9.368E-05	8.657E-05	-9.368E-05	3.847E-05
3	3.00000	0.05556	0.126	145.867	-2.905	78.154
	(STRAIN)		-6.474E-05	7.517E-05	-6.765E-05	7.257E-06
3	10.50000	0.05582	1.279	27.984	-17.356	20.799
	(STRAIN)		-2.318E-05	6.695E-05	-8.607E-05	4.056E-06
3	18.00000	0.05590	3.271	27.820	-23.380	7.039
	(STRAIN)		9.942E-07	8.385E-05	-8.895E-05	-6.099E-06
3	25.50000	0.05586	6.284	25.885	-43.735	-19.747
	(STRAIN)		1.443E-05	3.207E-05	-3.059E-05	-3.059E-05
3	33.00000	0.05569	8.096	10.519	-110.822	2.694
	(STRAIN)		3.006E-05	3.224E-05	-7.696E-05	-7.696E-05
4	0.00000	0.06523	0.000	296.209	41.875	249.745
	(STRAIN)		-1.322E-04	1.119E-04	-1.322E-04	6.733E-05
4	3.00000	0.06309	-0.858	207.629	-3.402	158.976
	(STRAIN)		-1.074E-04	9.278E-05	-1.098E-04	4.363E-05
4	10.50000	0.06359	-2.271	50.847	-25.068	28.701
	(STRAIN)		-5.533E-05	1.239E-04	-1.323E-04	4.700E-05
4	18.00000	0.06386	0.936	49.164	-42.985	10.294
	(STRAIN)		-1.126E-05	1.515E-04	-1.595E-04	3.283E-06
4	25.50000	0.06381	7.690	42.239	-71.208	-54.157
	(STRAIN)		2.632E-05	5.741E-05	-4.469E-05	-4.469E-05
4	33.00000	0.06347	11.754	12.111	-185.825	-48.880
	(STRAIN)		6.252E-05	6.284E-05	-1.153E-04	-1.153E-04
5	0.00000	0.07538	0.000	507.581	139.963	455.125
	(STRAIN)		-1.891E-04	1.638E-04	-1.891E-04	1.135E-04
5	3.00000	0.07284	14.319	449.211	9.000	308.461
	(STRAIN)		-2.111E-04	2.064E-04	-2.163E-04	7.123E-05
5	10.50000	0.07323	57.115	167.218	-11.526	46.893
	(STRAIN)		1.550E-05	3.871E-04	-2.162E-04	-1.900E-05
5	18.00000	0.07289	54.243	149.315	-51.466	41.370
	(STRAIN)		6.126E-05	3.821E-04	-2.955E-04	1.781E-05
5	25.50000	0.07265	32.777	83.366	-115.466	-115.208
	(STRAIN)		6.387E-05	1.094E-04	-6.955E-05	-6.932E-05
5	33.00000	0.07191	17.805	17.928	-329.856	-208.704
	(STRAIN)		1.375E-04	1.376E-04	-1.754E-04	-1.754E-04
6	0.00000	0.09438	600.000	1771.357	874.332	1750.279
	(STRAIN)		-4.501E-04	4.110E-04	-4.501E-04	3.908E-04
6	3.00000	0.09214	587.889	588.542	322.988	336.242
	(STRAIN)		1.984E-04	1.990E-04	-5.594E-05	-5.532E-05
6	10.50000	0.08507	386.219	388.337	93.804	97.405

	(STRAIN)		7.964E-04	8.035E-04	-1.905E-04	-1.905E-04
6	18.00000	0.08071	219.510	230.142	106.183	119.040
	(STRAIN)		3.424E-04	3.783E-04	-4.008E-05	-4.193E-06
6	25.50000	0.07992	85.766	91.968	-156.182	-132.310
	(STRAIN)		1.230E-04	1.286E-04	-9.471E-05	-9.471E-05
6	33.00000	0.07870	23.790	23.810	-478.652	-397.640
	(STRAIN)		2.203E-04	2.203E-04	-2.319E-04	-2.319E-04
7	0.00000	0.08605	0.000	735.709	247.362	688.418
	(STRAIN)		-2.528E-04	2.160E-04	-2.528E-04	1.706E-04
7	3.00000	0.08293	28.510	754.533	28.510	418.031
	(STRAIN)		-3.249E-04	3.720E-04	-3.249E-04	4.899E-05
7	10.50000	0.08333	113.193	180.260	66.182	113.193
	(STRAIN)		6.735E-05	2.937E-04	-9.132E-05	-9.132E-05
7	18.00000	0.08251	105.067	105.068	73.478	85.669
	(STRAIN)		1.234E-04	1.234E-04	1.680E-05	1.680E-05
7	25.50000	0.08209	57.676	57.676	-167.822	-117.228
	(STRAIN)		1.050E-04	1.050E-04	-9.799E-05	-9.799E-05
7	33.00000	0.08088	24.850	24.850	-501.736	-398.905
	(STRAIN)		2.267E-04	2.267E-04	-2.472E-04	-2.472E-04
8	0.00000	0.09438	600.000	1771.357	874.332	1750.279
	(STRAIN)		-4.501E-04	4.110E-04	-4.501E-04	3.908E-04
8	3.00000	0.09214	587.889	588.542	322.988	336.242
	(STRAIN)		1.984E-04	1.990E-04	-5.594E-05	-5.532E-05
8	10.50000	0.08507	386.219	388.337	93.804	97.405
	(STRAIN)		7.964E-04	8.035E-04	-1.905E-04	-1.905E-04
8	18.00000	0.08071	219.510	230.142	106.183	119.040
	(STRAIN)		3.424E-04	3.783E-04	-4.008E-05	-4.193E-06
8	25.50000	0.07992	85.766	91.968	-156.182	-132.310
	(STRAIN)		1.230E-04	1.286E-04	-9.471E-05	-9.471E-05
8	33.00000	0.07870	23.790	23.810	-478.652	-397.640
	(STRAIN)		2.203E-04	2.203E-04	-2.319E-04	-2.319E-04
9	0.00000	0.07538	0.000	507.581	139.963	455.125
	(STRAIN)		-1.891E-04	1.638E-04	-1.891E-04	1.135E-04
9	3.00000	0.07284	14.319	449.211	9.000	308.461
	(STRAIN)		-2.111E-04	2.064E-04	-2.163E-04	7.123E-05
9	10.50000	0.07323	57.115	167.218	-11.526	46.893
	(STRAIN)		1.550E-05	3.871E-04	-2.162E-04	-1.900E-05
9	18.00000	0.07289	54.243	149.315	-51.466	41.370
	(STRAIN)		6.126E-05	3.821E-04	-2.955E-04	1.781E-05
9	25.50000	0.07265	32.777	83.366	-115.466	-115.208
	(STRAIN)		6.387E-05	1.094E-04	-6.955E-05	-6.932E-05
9	33.00000	0.07191	17.805	17.928	-329.856	-208.704
	(STRAIN)		1.375E-04	1.376E-04	-1.754E-04	-1.754E-04
10	0.00000	0.06523	0.000	296.209	41.875	249.745
	(STRAIN)		-1.322E-04	1.119E-04	-1.322E-04	6.733E-05
10	3.00000	0.06309	-0.858	207.629	-3.402	158.976
	(STRAIN)		-1.074E-04	9.278E-05	-1.098E-04	4.363E-05
10	10.50000	0.06359	-2.271	50.847	-25.068	28.701
	(STRAIN)		-5.533E-05	1.239E-04	-1.323E-04	4.700E-05
10	18.00000	0.06386	0.936	49.164	-42.985	10.294
	(STRAIN)		-1.126E-05	1.515E-04	-1.595E-04	3.283E-06
10	25.50000	0.06381	7.690	42.239	-71.208	-54.157
	(STRAIN)		2.632E-05	5.741E-05	-4.469E-05	-4.469E-05
10	33.00000	0.06347	11.754	12.111	-185.825	-48.880
	(STRAIN)		6.252E-05	6.284E-05	-1.153E-04	-1.153E-04
11	0.00000	0.05796	0.000	209.939	22.181	159.835
	(STRAIN)		-9.368E-05	8.657E-05	-9.368E-05	3.847E-05
11	3.00000	0.05556	0.126	145.867	-2.905	78.154
	(STRAIN)		-6.474E-05	7.517E-05	-6.765E-05	7.257E-06

11	10.50000	0.05582	1.279	27.984	-17.356	20.799
	(STRAIN)		-2.318E-05	6.695E-05	-8.607E-05	4.056E-06
11	18.00000	0.05590	3.271	27.820	-23.380	7.039
	(STRAIN)		9.942E-07	8.385E-05	-8.895E-05	-6.099E-06
11	25.50000	0.05586	6.284	25.885	-43.735	-19.747
	(STRAIN)		1.443E-05	3.207E-05	-3.059E-05	-3.059E-05
11	33.00000	0.05569	8.096	10.519	-110.822	2.694
	(STRAIN)		3.006E-05	3.224E-05	-7.696E-05	-7.696E-05
12	0.00000	0.05165	0.000	149.290	13.299	106.498
	(STRAIN)		-6.617E-05	6.439E-05	-6.617E-05	2.331E-05
12	3.00000	0.04882	0.302	99.557	-2.938	29.006
	(STRAIN)		-3.656E-05	5.872E-05	-3.967E-05	-1.211E-05
12	10.50000	0.04896	1.552	16.160	-11.663	14.857
	(STRAIN)		-1.170E-05	3.760E-05	-5.630E-05	-6.996E-06
12	18.00000	0.04899	3.195	17.697	-13.709	5.134
	(STRAIN)		2.800E-06	5.175E-05	-5.425E-05	-5.303E-06
12	25.50000	0.04896	4.895	20.813	-27.420	-5.992
	(STRAIN)		7.345E-06	2.167E-05	-2.174E-05	-2.174E-05
12	33.00000	0.04888	5.738	24.787	-70.050	5.304
	(STRAIN)		1.449E-05	3.163E-05	-5.372E-05	-5.372E-05

PERIOD NO. 1 LOAD GROUP NO. 6

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.05398	0.000	126.972	10.398	85.834
	(STRAIN)		-5.549E-05	5.642E-05	-5.549E-05	1.693E-05
1	3.00000	0.05008	0.188	79.009	-7.727	6.179
	(STRAIN)		-2.254E-05	5.313E-05	-3.014E-05	-2.439E-05
1	10.50000	0.05016	1.321	12.294	-9.614	10.397
	(STRAIN)		-6.985E-06	3.005E-05	-4.389E-05	-1.326E-05
1	18.00000	0.05018	2.722	12.994	-9.645	4.362
	(STRAIN)		2.439E-06	3.711E-05	-3.930E-05	-4.632E-06
1	25.50000	0.05017	4.096	22.277	-19.980	-0.946
	(STRAIN)		3.371E-06	1.973E-05	-1.830E-05	-1.830E-05
1	33.00000	0.05013	4.760	38.283	-52.591	4.544
	(STRAIN)		6.563E-06	3.673E-05	-4.505E-05	-4.505E-05
2	0.00000	0.06026	0.000	174.171	15.515	124.248
	(STRAIN)		-7.719E-05	7.512E-05	-7.719E-05	2.719E-05
2	3.00000	0.05695	0.353	116.150	-3.427	33.841
	(STRAIN)		-4.265E-05	6.851E-05	-4.628E-05	-1.413E-05
2	10.50000	0.05711	1.811	18.853	-13.607	17.333
	(STRAIN)		-1.365E-05	4.387E-05	-6.568E-05	-8.163E-06
2	18.00000	0.05715	3.727	20.647	-15.993	5.990
	(STRAIN)		3.267E-06	6.037E-05	-6.329E-05	-6.187E-06
2	25.50000	0.05713	5.711	24.282	-31.990	-6.991
	(STRAIN)		8.570E-06	2.528E-05	-2.536E-05	-2.536E-05
2	33.00000	0.05703	6.694	28.919	-81.725	6.188
	(STRAIN)		1.690E-05	3.690E-05	-6.268E-05	-6.268E-05
3	0.00000	0.06762	0.000	244.929	25.877	186.474
	(STRAIN)		-1.093E-04	1.010E-04	-1.093E-04	4.488E-05
3	3.00000	0.06482	0.147	170.178	-3.390	91.180
	(STRAIN)		-7.553E-05	8.770E-05	-7.892E-05	8.467E-06
3	10.50000	0.06512	1.492	32.648	-20.248	24.265
	(STRAIN)		-2.705E-05	7.810E-05	-1.004E-04	4.731E-06
3	18.00000	0.06522	3.816	32.456	-27.277	8.213
	(STRAIN)		1.160E-06	9.782E-05	-1.038E-04	-7.116E-06

3	25.50000	0.06517	7.331	30.199	-51.024	-23.038
	(STRAIN)		1.683E-05	3.741E-05	-3.569E-05	-3.569E-05
3	33.00000	0.06497	9.445	12.272	-129.292	3.143
	(STRAIN)		3.507E-05	3.762E-05	-8.979E-05	-8.979E-05
4	0.00000	0.07610	0.000	345.578	48.854	291.370
	(STRAIN)		-1.543E-04	1.306E-04	-1.543E-04	7.855E-05
4	3.00000	0.07361	-1.000	242.234	-3.969	185.472
	(STRAIN)		-1.253E-04	1.082E-04	-1.281E-04	5.091E-05
4	10.50000	0.07419	-2.650	59.321	-29.247	33.485
	(STRAIN)		-6.456E-05	1.446E-04	-1.543E-04	5.483E-05
4	18.00000	0.07450	1.092	57.358	-50.149	12.010
	(STRAIN)		-1.313E-05	1.768E-04	-1.861E-04	3.830E-06
4	25.50000	0.07444	8.972	49.279	-83.076	-63.183
	(STRAIN)		3.070E-05	6.698E-05	-5.214E-05	-5.214E-05
4	33.00000	0.07405	13.713	14.129	-216.796	-57.027
	(STRAIN)		7.294E-05	7.331E-05	-1.345E-04	-1.345E-04
5	0.00000	0.08795	0.000	592.178	163.290	530.980
	(STRAIN)		-2.206E-04	1.911E-04	-2.206E-04	1.324E-04
5	3.00000	0.08498	16.705	524.080	10.500	359.871
	(STRAIN)		-2.463E-04	2.407E-04	-2.523E-04	8.310E-05
5	10.50000	0.08544	66.635	195.088	-13.447	54.708
	(STRAIN)		1.809E-05	4.516E-04	-2.522E-04	-2.216E-05
5	18.00000	0.08504	63.284	174.200	-60.044	48.265
	(STRAIN)		7.146E-05	4.458E-04	-3.448E-04	2.077E-05
5	25.50000	0.08476	38.240	97.261	-134.709	-134.411
	(STRAIN)		7.452E-05	1.276E-04	-8.114E-05	-8.087E-05
5	33.00000	0.08390	20.772	20.916	-384.832	-243.488
	(STRAIN)		1.604E-04	1.606E-04	-2.046E-04	-2.046E-04
6	0.00000	0.11011	700.000	2066.580	1020.054	2041.995
	(STRAIN)		-5.251E-04	4.795E-04	-5.251E-04	4.559E-04
6	3.00000	0.10749	685.870	686.633	376.820	392.282
	(STRAIN)		2.314E-04	2.322E-04	-6.527E-05	-6.454E-05
6	10.50000	0.09925	450.589	453.060	109.437	113.640
	(STRAIN)		9.291E-04	9.375E-04	-2.223E-04	-2.223E-04
6	18.00000	0.09416	256.095	268.500	123.881	138.880
	(STRAIN)		3.995E-04	4.413E-04	-4.675E-05	-4.892E-06
6	25.50000	0.09324	100.060	107.296	-182.212	-154.361
	(STRAIN)		1.436E-04	1.501E-04	-1.105E-04	-1.105E-04
6	33.00000	0.09182	27.755	27.778	-558.427	-463.913
	(STRAIN)		2.570E-04	2.571E-04	-2.705E-04	-2.705E-04
7	0.00000	0.10039	0.000	858.326	288.589	803.155
	(STRAIN)		-2.950E-04	2.520E-04	-2.950E-04	1.990E-04
7	3.00000	0.09675	33.262	880.288	33.262	487.703
	(STRAIN)		-3.791E-04	4.340E-04	-3.791E-04	5.716E-05
7	10.50000	0.09722	132.058	210.303	77.212	132.058
	(STRAIN)		7.857E-05	3.426E-04	-1.065E-04	-1.065E-04
7	18.00000	0.09626	122.579	122.579	85.724	99.948
	(STRAIN)		1.440E-04	1.440E-04	1.960E-05	1.960E-05
7	25.50000	0.09577	67.289	67.289	-195.792	-136.766
	(STRAIN)		1.225E-04	1.225E-04	-1.143E-04	-1.143E-04
7	33.00000	0.09436	28.991	28.991	-585.359	-465.389
	(STRAIN)		2.645E-04	2.645E-04	-2.884E-04	-2.884E-04
8	0.00000	0.11011	700.000	2066.580	1020.054	2041.995
	(STRAIN)		-5.251E-04	4.795E-04	-5.251E-04	4.559E-04
8	3.00000	0.10749	685.870	686.633	376.820	392.282
	(STRAIN)		2.314E-04	2.322E-04	-6.527E-05	-6.454E-05
8	10.50000	0.09925	450.589	453.060	109.437	113.640
	(STRAIN)		9.291E-04	9.375E-04	-2.223E-04	-2.223E-04
8	18.00000	0.09416	256.095	268.500	123.881	138.880

	(STRAIN)		3.995E-04	4.413E-04	-4.675E-05	-4.892E-06
8	25.50000	0.09324	100.060	107.296	-182.212	-154.361
	(STRAIN)		1.436E-04	1.501E-04	-1.105E-04	-1.105E-04
8	33.00000	0.09182	27.755	27.778	-558.427	-463.913
	(STRAIN)		2.570E-04	2.571E-04	-2.705E-04	-2.705E-04
9	0.00000	0.08795	0.000	592.178	163.290	530.980
	(STRAIN)		-2.206E-04	1.911E-04	-2.206E-04	1.324E-04
9	3.00000	0.08498	16.705	524.080	10.500	359.871
	(STRAIN)		-2.463E-04	2.407E-04	-2.523E-04	8.310E-05
9	10.50000	0.08544	66.635	195.088	-13.447	54.708
	(STRAIN)		1.809E-05	4.516E-04	-2.522E-04	-2.216E-05
9	18.00000	0.08504	63.284	174.200	-60.044	48.265
	(STRAIN)		7.146E-05	4.458E-04	-3.448E-04	2.077E-05
9	25.50000	0.08476	38.240	97.261	-134.709	-134.411
	(STRAIN)		7.452E-05	1.276E-04	-8.114E-05	-8.087E-05
9	33.00000	0.08390	20.772	20.916	-384.832	-243.488
	(STRAIN)		1.604E-04	1.606E-04	-2.046E-04	-2.046E-04
10	0.00000	0.07610	0.000	345.578	48.854	291.370
	(STRAIN)		-1.543E-04	1.306E-04	-1.543E-04	7.855E-05
10	3.00000	0.07361	-1.000	242.234	-3.969	185.472
	(STRAIN)		-1.253E-04	1.082E-04	-1.281E-04	5.091E-05
10	10.50000	0.07419	-2.650	59.321	-29.247	33.485
	(STRAIN)		-6.456E-05	1.446E-04	-1.543E-04	5.483E-05
10	18.00000	0.07450	1.092	57.358	-50.149	12.010
	(STRAIN)		-1.313E-05	1.768E-04	-1.861E-04	3.830E-06
10	25.50000	0.07444	8.972	49.279	-83.076	-63.183
	(STRAIN)		3.070E-05	6.698E-05	-5.214E-05	-5.214E-05
10	33.00000	0.07405	13.713	14.129	-216.796	-57.027
	(STRAIN)		7.294E-05	7.331E-05	-1.345E-04	-1.345E-04
11	0.00000	0.06762	0.000	244.929	25.877	186.474
	(STRAIN)		-1.093E-04	1.010E-04	-1.093E-04	4.488E-05
11	3.00000	0.06482	0.147	170.178	-3.390	91.180
	(STRAIN)		-7.553E-05	8.770E-05	-7.892E-05	8.467E-06
11	10.50000	0.06512	1.492	32.648	-20.248	24.265
	(STRAIN)		-2.705E-05	7.810E-05	-1.004E-04	4.731E-06
11	18.00000	0.06522	3.816	32.456	-27.277	8.213
	(STRAIN)		1.160E-06	9.782E-05	-1.038E-04	-7.116E-06
11	25.50000	0.06517	7.331	30.199	-51.024	-23.038
	(STRAIN)		1.683E-05	3.741E-05	-3.569E-05	-3.569E-05
11	33.00000	0.06497	9.445	12.272	-129.292	3.143
	(STRAIN)		3.507E-05	3.762E-05	-8.979E-05	-8.979E-05
12	0.00000	0.06026	0.000	174.171	15.515	124.248
	(STRAIN)		-7.719E-05	7.512E-05	-7.719E-05	2.719E-05
12	3.00000	0.05695	0.353	116.150	-3.427	33.841
	(STRAIN)		-4.265E-05	6.851E-05	-4.628E-05	-1.413E-05
12	10.50000	0.05711	1.811	18.853	-13.607	17.333
	(STRAIN)		-1.365E-05	4.387E-05	-6.568E-05	-8.163E-06
12	18.00000	0.05715	3.727	20.647	-15.993	5.990
	(STRAIN)		3.267E-06	6.037E-05	-6.329E-05	-6.187E-06
12	25.50000	0.05713	5.711	24.282	-31.990	-6.991
	(STRAIN)		8.570E-06	2.528E-05	-2.536E-05	-2.536E-05
12	33.00000	0.05703	6.694	28.919	-81.725	6.188
	(STRAIN)		1.690E-05	3.690E-05	-6.268E-05	-6.268E-05

PERIOD NO. 1 LOAD GROUP NO. 7

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS	MAJOR PRINCIPAL STRESS	MINOR PRINCIAL STRESS	INTERMEDIATE P. STRESS (HORIZONTAL

			(STRAIN)	(STRAIN)	(STRAIN)	P. STRAIN)
1	0.00000	0.06943	0.000	126.312	10.838	94.573
	(STRAIN)		-5.757E-05	5.329E-05	-5.757E-05	1.842E-05
1	3.00000	0.06242	-0.019	58.869	-10.152	3.024
	(STRAIN)		-1.520E-05	4.134E-05	-2.492E-05	-3.518E-05
1	10.50000	0.06247	1.276	10.380	-7.999	7.666
	(STRAIN)		-4.485E-06	2.624E-05	-3.579E-05	-1.908E-05
1	18.00000	0.06248	2.636	11.270	-7.477	3.949
	(STRAIN)		2.121E-06	3.126E-05	-3.201E-05	-4.367E-06
1	25.50000	0.06248	3.972	22.708	-10.185	0.650
	(STRAIN)		5.009E-07	1.736E-05	-1.224E-05	-1.672E-05
1	33.00000	0.06248	4.637	39.995	-31.221	4.423
	(STRAIN)		1.094E-06	3.292E-05	-3.118E-05	-4.162E-05
2	0.00000	0.07576	0.000	165.021	15.101	129.875
	(STRAIN)		-7.644E-05	6.749E-05	-7.644E-05	2.907E-05
2	3.00000	0.06938	0.116	85.866	-3.065	25.152
	(STRAIN)		-3.155E-05	5.077E-05	-3.461E-05	-2.507E-05
2	10.50000	0.06950	1.720	16.435	-10.674	12.131
	(STRAIN)		-9.852E-06	3.981E-05	-5.168E-05	-1.376E-05
2	18.00000	0.06953	3.547	17.457	-12.260	5.141
	(STRAIN)		2.926E-06	4.987E-05	-5.042E-05	-4.850E-06
2	25.50000	0.06951	5.416	22.485	-17.969	-3.554
	(STRAIN)		4.650E-06	2.001E-05	-1.640E-05	-2.113E-05
2	33.00000	0.06946	6.357	28.678	-49.855	5.877
	(STRAIN)		9.292E-06	2.938E-05	-4.130E-05	-5.221E-05
3	0.00000	0.08281	0.000	220.880	23.287	183.741
	(STRAIN)		-1.032E-04	8.653E-05	-1.032E-04	4.630E-05
3	3.00000	0.07700	0.035	125.444	-2.598	73.553
	(STRAIN)		-5.758E-05	6.282E-05	-6.010E-05	-5.024E-06
3	10.50000	0.07722	1.565	27.274	-15.228	17.227
	(STRAIN)		-2.033E-05	6.644E-05	-7.701E-05	-2.235E-06
3	18.00000	0.07730	3.781	26.665	-20.579	6.728
	(STRAIN)		1.548E-06	7.878E-05	-8.067E-05	-4.534E-06
3	25.50000	0.07727	6.875	25.345	-30.653	-16.020
	(STRAIN)		1.116E-05	2.779E-05	-2.261E-05	-2.695E-05
3	33.00000	0.07713	8.699	11.205	-80.953	2.594
	(STRAIN)		2.350E-05	2.575E-05	-5.719E-05	-6.725E-05
4	0.00000	0.09053	0.000	298.716	40.833	269.166
	(STRAIN)		-1.394E-04	1.082E-04	-1.394E-04	7.521E-05
4	3.00000	0.08510	-0.719	181.757	-2.884	146.625
	(STRAIN)		-9.617E-05	7.901E-05	-9.825E-05	2.734E-05
4	10.50000	0.08555	-1.433	48.045	-21.570	23.732
	(STRAIN)		-4.877E-05	1.182E-04	-1.167E-04	2.299E-05
4	18.00000	0.08578	1.923	45.425	-37.318	9.461
	(STRAIN)		-8.883E-06	1.379E-04	-1.413E-04	4.234E-06
4	25.50000	0.08574	8.341	38.334	-54.264	-45.708
	(STRAIN)		2.189E-05	4.888E-05	-3.446E-05	-3.606E-05
4	33.00000	0.08545	12.154	12.519	-140.879	-49.396
	(STRAIN)		5.241E-05	5.274E-05	-8.531E-05	-9.323E-05
5	0.00000	0.10044	0.000	483.375	126.253	454.678
	(STRAIN)		-1.910E-04	1.518E-04	-1.910E-04	1.213E-04
5	3.00000	0.09480	12.522	419.800	8.056	252.699
	(STRAIN)		-1.876E-04	2.034E-04	-1.919E-04	3.981E-05
5	10.50000	0.09516	50.102	149.177	-8.953	39.192
	(STRAIN)		1.211E-05	3.465E-04	-1.872E-04	-2.698E-05
5	18.00000	0.09487	48.261	132.145	-44.125	36.288
	(STRAIN)		5.411E-05	3.372E-04	-2.577E-04	1.268E-05
5	25.50000	0.09466	30.290	73.355	-105.010	-86.482
	(STRAIN)		5.483E-05	9.358E-05	-6.694E-05	-5.436E-05

5	33.00000	0.09402	17.637	17.764	-261.433	-194.664
	(STRAIN)		1.182E-04	1.183E-04	-1.330E-04	-1.393E-04
6	0.00000	0.11763	520.000	1584.666	762.986	1577.217
	(STRAIN)		-4.188E-04	3.700E-04	-4.188E-04	3.600E-04
6	3.00000	0.11233	509.673	510.406	274.896	316.012
	(STRAIN)		1.662E-04	1.669E-04	-5.915E-05	-6.232E-05
6	10.50000	0.10623	335.370	337.394	79.015	90.301
	(STRAIN)		6.885E-04	6.953E-04	-1.767E-04	-1.771E-04
6	18.00000	0.10245	191.583	201.395	93.575	103.571
	(STRAIN)		2.979E-04	3.310E-04	-3.291E-05	-1.297E-06
6	25.50000	0.10177	76.353	81.745	-123.963	-119.233
	(STRAIN)		1.064E-04	1.112E-04	-7.389E-05	-7.519E-05
6	33.00000	0.10072	22.985	23.010	-387.427	-363.185
	(STRAIN)		1.905E-04	1.905E-04	-1.789E-04	-1.836E-04
7	0.00000	0.11066	0.000	681.812	219.712	664.389
	(STRAIN)		-2.484E-04	1.952E-04	-2.484E-04	1.785E-04
7	3.00000	0.10464	24.897	690.716	24.872	346.633
	(STRAIN)		-2.877E-04	3.515E-04	-2.877E-04	2.116E-05
7	10.50000	0.10500	98.763	162.331	54.851	99.151
	(STRAIN)		5.653E-05	2.711E-04	-9.167E-05	-9.036E-05
7	18.00000	0.10430	92.437	93.195	63.221	76.556
	(STRAIN)		1.081E-04	1.107E-04	9.519E-06	1.208E-05
7	25.50000	0.10393	52.058	52.151	-131.042	-109.543
	(STRAIN)		9.082E-05	9.090E-05	-7.397E-05	-7.389E-05
7	33.00000	0.10289	23.961	23.966	-404.142	-368.252
	(STRAIN)		1.962E-04	1.962E-04	-1.891E-04	-1.891E-04
8	0.00000	0.11763	520.000	1584.666	762.986	1577.217
	(STRAIN)		-4.188E-04	3.700E-04	-4.188E-04	3.600E-04
8	3.00000	0.11233	509.673	510.406	274.896	316.012
	(STRAIN)		1.662E-04	1.669E-04	-5.915E-05	-6.232E-05
8	10.50000	0.10623	335.370	337.394	79.015	90.301
	(STRAIN)		6.885E-04	6.953E-04	-1.767E-04	-1.771E-04
8	18.00000	0.10245	191.583	201.395	93.575	103.571
	(STRAIN)		2.979E-04	3.310E-04	-3.291E-05	-1.297E-06
8	25.50000	0.10177	76.353	81.745	-123.964	-119.233
	(STRAIN)		1.064E-04	1.112E-04	-7.390E-05	-7.519E-05
8	33.00000	0.10072	22.985	23.010	-387.427	-363.185
	(STRAIN)		1.905E-04	1.905E-04	-1.789E-04	-1.836E-04
9	0.00000	0.10044	0.000	483.375	126.253	454.678
	(STRAIN)		-1.910E-04	1.518E-04	-1.910E-04	1.213E-04
9	3.00000	0.09480	12.522	419.800	8.056	252.699
	(STRAIN)		-1.876E-04	2.034E-04	-1.919E-04	3.981E-05
9	10.50000	0.09516	50.102	149.177	-8.953	39.192
	(STRAIN)		1.211E-05	3.465E-04	-1.872E-04	-2.698E-05
9	18.00000	0.09487	48.261	132.145	-44.125	36.288
	(STRAIN)		5.411E-05	3.372E-04	-2.577E-04	1.268E-05
9	25.50000	0.09466	30.290	73.355	-105.010	-86.482
	(STRAIN)		5.483E-05	9.358E-05	-6.694E-05	-5.436E-05
9	33.00000	0.09402	17.637	17.764	-261.433	-194.664
	(STRAIN)		1.182E-04	1.183E-04	-1.330E-04	-1.393E-04
10	0.00000	0.09053	0.000	298.716	40.833	269.166
	(STRAIN)		-1.394E-04	1.082E-04	-1.394E-04	7.521E-05
10	3.00000	0.08510	-0.719	181.757	-2.884	146.625
	(STRAIN)		-9.617E-05	7.901E-05	-9.825E-05	2.734E-05
10	10.50000	0.08555	-1.433	48.045	-21.570	23.732
	(STRAIN)		-4.877E-05	1.182E-04	-1.167E-04	2.299E-05
10	18.00000	0.08578	1.923	45.425	-37.318	9.461
	(STRAIN)		-8.883E-06	1.379E-04	-1.413E-04	4.234E-06
10	25.50000	0.08574	8.341	38.334	-54.264	-45.708

	(STRAIN)		2.189E-05	4.888E-05	-3.446E-05	-3.606E-05
10	33.00000	0.08545	12.154	12.519	-140.879	-49.396
	(STRAIN)		5.241E-05	5.274E-05	-8.531E-05	-9.323E-05
11	0.00000	0.08281	0.000	220.880	23.287	183.741
	(STRAIN)		-1.032E-04	8.653E-05	-1.032E-04	4.630E-05
11	3.00000	0.07700	0.035	125.444	-2.598	73.553
	(STRAIN)		-5.758E-05	6.282E-05	-6.010E-05	-5.024E-06
11	10.50000	0.07722	1.565	27.274	-15.228	17.227
	(STRAIN)		-2.033E-05	6.644E-05	-7.701E-05	-2.235E-06
11	18.00000	0.07730	3.781	26.665	-20.579	6.728
	(STRAIN)		1.548E-06	7.878E-05	-8.067E-05	-4.534E-06
11	25.50000	0.07727	6.875	25.345	-30.653	-16.020
	(STRAIN)		1.116E-05	2.779E-05	-2.261E-05	-2.695E-05
11	33.00000	0.07713	8.699	11.205	-80.953	2.594
	(STRAIN)		2.350E-05	2.575E-05	-5.719E-05	-6.725E-05
12	0.00000	0.07576	0.000	165.021	15.101	129.875
	(STRAIN)		-7.644E-05	6.749E-05	-7.644E-05	2.907E-05
12	3.00000	0.06938	0.116	85.866	-3.065	25.152
	(STRAIN)		-3.155E-05	5.077E-05	-3.461E-05	-2.507E-05
12	10.50000	0.06950	1.720	16.435	-10.674	12.131
	(STRAIN)		-9.852E-06	3.981E-05	-5.168E-05	-1.376E-05
12	18.00000	0.06953	3.547	17.457	-12.260	5.141
	(STRAIN)		2.926E-06	4.987E-05	-5.042E-05	-4.850E-06
12	25.50000	0.06951	5.416	22.485	-17.969	-3.554
	(STRAIN)		4.650E-06	2.001E-05	-1.640E-05	-2.113E-05
12	33.00000	0.06946	6.357	28.678	-49.855	5.877
	(STRAIN)		9.292E-06	2.938E-05	-4.130E-05	-5.221E-05

PERIOD NO. 1 LOAD GROUP NO. 8

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.08011	0.000	145.745	12.505	109.123
	(STRAIN)		-6.642E-05	6.149E-05	-6.642E-05	2.125E-05
1	3.00000	0.07202	-0.022	67.926	-11.714	3.489
	(STRAIN)		-1.753E-05	4.770E-05	-2.876E-05	-4.059E-05
1	10.50000	0.07208	1.472	11.977	-9.230	8.846
	(STRAIN)		-5.175E-06	3.028E-05	-4.130E-05	-2.201E-05
1	18.00000	0.07210	3.041	13.003	-8.627	4.557
	(STRAIN)		2.447E-06	3.607E-05	-3.693E-05	-5.039E-06
1	25.50000	0.07210	4.583	26.201	-11.752	0.750
	(STRAIN)		5.779E-07	2.003E-05	-1.412E-05	-1.929E-05
1	33.00000	0.07209	5.351	46.148	-36.024	5.103
	(STRAIN)		1.263E-06	3.798E-05	-3.597E-05	-4.802E-05
2	0.00000	0.08742	0.000	190.408	17.424	149.856
	(STRAIN)		-8.819E-05	7.787E-05	-8.819E-05	3.354E-05
2	3.00000	0.08005	0.134	99.076	-3.537	29.022
	(STRAIN)		-3.641E-05	5.858E-05	-3.993E-05	-2.893E-05
2	10.50000	0.08019	1.984	18.964	-12.316	13.997
	(STRAIN)		-1.137E-05	4.594E-05	-5.963E-05	-1.588E-05
2	18.00000	0.08022	4.093	20.143	-14.146	5.931
	(STRAIN)		3.376E-06	5.754E-05	-5.818E-05	-5.597E-06
2	25.50000	0.08021	6.250	25.945	-20.733	-4.101
	(STRAIN)		5.366E-06	2.309E-05	-1.892E-05	-2.438E-05
2	33.00000	0.08014	7.336	33.090	-57.525	6.781
	(STRAIN)		1.072E-05	3.390E-05	-4.765E-05	-6.025E-05
3	0.00000	0.09556	0.000	254.862	26.870	212.009

	(STRAIN)		-1.190E-04	9.984E-05	-1.190E-04	5.343E-05
3	3.00000	0.08885	0.041	144.743	-2.998	84.869
	(STRAIN)		-6.643E-05	7.248E-05	-6.935E-05	-5.797E-06
3	10.50000	0.08911	1.806	31.470	-17.570	19.877
	(STRAIN)		-2.346E-05	7.666E-05	-8.885E-05	-2.579E-06
3	18.00000	0.08919	4.362	30.767	-23.746	7.763
	(STRAIN)		1.786E-06	9.090E-05	-9.308E-05	-5.232E-06
3	25.50000	0.08915	7.933	29.244	-35.369	-18.485
	(STRAIN)		1.288E-05	3.206E-05	-2.609E-05	-3.110E-05
3	33.00000	0.08900	10.037	12.929	-93.407	2.993
	(STRAIN)		2.711E-05	2.972E-05	-6.599E-05	-7.760E-05
4	0.00000	0.10445	0.000	344.672	47.115	310.576
	(STRAIN)		-1.608E-04	1.249E-04	-1.608E-04	8.678E-05
4	3.00000	0.09819	-0.830	209.719	-3.327	169.182
	(STRAIN)		-1.110E-04	9.116E-05	-1.134E-04	3.154E-05
4	10.50000	0.09871	-1.654	55.437	-24.889	27.383
	(STRAIN)		-5.627E-05	1.364E-04	-1.347E-04	2.653E-05
4	18.00000	0.09897	2.219	52.414	-43.059	10.917
	(STRAIN)		-1.025E-05	1.592E-04	-1.631E-04	4.885E-06
4	25.50000	0.09893	9.624	44.231	-62.612	-52.740
	(STRAIN)		2.526E-05	5.640E-05	-3.976E-05	-4.161E-05
4	33.00000	0.09860	14.024	14.444	-162.552	-56.995
	(STRAIN)		6.048E-05	6.086E-05	-9.844E-05	-1.076E-04
5	0.00000	0.11590	0.000	557.742	145.677	524.627
	(STRAIN)		-2.204E-04	1.752E-04	-2.204E-04	1.400E-04
5	3.00000	0.10939	14.448	484.385	9.295	291.575
	(STRAIN)		-2.165E-04	2.347E-04	-2.214E-04	4.594E-05
5	10.50000	0.10980	57.810	172.128	-10.331	45.222
	(STRAIN)		1.397E-05	3.998E-04	-2.160E-04	-3.113E-05
5	18.00000	0.10946	55.686	152.475	-50.914	41.871
	(STRAIN)		6.244E-05	3.891E-04	-2.973E-04	1.463E-05
5	25.50000	0.10922	34.950	84.640	-121.166	-99.787
	(STRAIN)		6.326E-05	1.080E-04	-7.724E-05	-6.273E-05
5	33.00000	0.10849	20.351	20.497	-301.653	-224.612
	(STRAIN)		1.363E-04	1.365E-04	-1.535E-04	-1.608E-04
6	0.00000	0.13573	600.000	1828.570	880.368	1819.756
	(STRAIN)		-4.833E-04	4.270E-04	-4.833E-04	4.154E-04
6	3.00000	0.12962	588.084	588.929	317.187	364.631
	(STRAIN)		1.918E-04	1.926E-04	-6.825E-05	-7.191E-05
6	10.50000	0.12258	386.965	389.300	91.171	104.194
	(STRAIN)		7.944E-04	8.023E-04	-2.039E-04	-2.044E-04
6	18.00000	0.11821	221.057	232.378	107.971	119.505
	(STRAIN)		3.437E-04	3.819E-04	-3.797E-05	-1.497E-06
6	25.50000	0.11743	88.100	94.321	-143.035	-137.577
	(STRAIN)		1.228E-04	1.284E-04	-8.526E-05	-8.676E-05
6	33.00000	0.11621	26.521	26.551	-447.030	-419.060
	(STRAIN)		2.198E-04	2.198E-04	-2.064E-04	-2.119E-04
7	0.00000	0.12769	0.000	786.705	253.514	766.604
	(STRAIN)		-2.866E-04	2.252E-04	-2.866E-04	2.059E-04
7	3.00000	0.12073	28.727	796.981	28.698	399.961
	(STRAIN)		-3.319E-04	4.056E-04	-3.320E-04	2.441E-05
7	10.50000	0.12116	113.957	187.305	63.290	114.405
	(STRAIN)		6.523E-05	3.128E-04	-1.058E-04	-1.043E-04
7	18.00000	0.12034	106.658	107.532	72.947	88.335
	(STRAIN)		1.248E-04	1.277E-04	1.098E-05	1.393E-05
7	25.50000	0.11992	60.067	60.175	-151.202	-126.396
	(STRAIN)		1.048E-04	1.049E-04	-8.535E-05	-8.525E-05
7	33.00000	0.11872	27.647	27.654	-466.318	-424.906
	(STRAIN)		2.264E-04	2.264E-04	-2.182E-04	-2.182E-04

8	0.00000	0.13573	600.000	1828.570	880.368	1819.756
	(STRAIN)		-4.833E-04	4.270E-04	-4.833E-04	4.154E-04
8	3.00000	0.12962	588.084	588.929	317.187	364.631
	(STRAIN)		1.918E-04	1.926E-04	-6.825E-05	-7.191E-05
8	10.50000	0.12258	386.965	389.300	91.171	104.194
	(STRAIN)		7.944E-04	8.023E-04	-2.039E-04	-2.044E-04
8	18.00000	0.11821	221.057	232.378	107.971	119.505
	(STRAIN)		3.437E-04	3.819E-04	-3.797E-05	-1.497E-06
8	25.50000	0.11743	88.100	94.321	-143.035	-137.577
	(STRAIN)		1.228E-04	1.284E-04	-8.526E-05	-8.676E-05
8	33.00000	0.11621	26.521	26.551	-447.030	-419.060
	(STRAIN)		2.198E-04	2.198E-04	-2.064E-04	-2.119E-04
9	0.00000	0.11590	0.000	557.741	145.677	524.628
	(STRAIN)		-2.204E-04	1.752E-04	-2.204E-04	1.400E-04
9	3.00000	0.10939	14.448	484.385	9.295	291.575
	(STRAIN)		-2.165E-04	2.347E-04	-2.214E-04	4.594E-05
9	10.50000	0.10980	57.810	172.128	-10.331	45.222
	(STRAIN)		1.397E-05	3.998E-04	-2.160E-04	-3.113E-05
9	18.00000	0.10946	55.686	152.475	-50.914	41.871
	(STRAIN)		6.244E-05	3.891E-04	-2.973E-04	1.463E-05
9	25.50000	0.10922	34.950	84.640	-121.166	-99.787
	(STRAIN)		6.326E-05	1.080E-04	-7.724E-05	-6.273E-05
9	33.00000	0.10849	20.351	20.497	-301.653	-224.612
	(STRAIN)		1.363E-04	1.365E-04	-1.535E-04	-1.608E-04
10	0.00000	0.10445	0.000	344.672	47.115	310.576
	(STRAIN)		-1.608E-04	1.249E-04	-1.608E-04	8.678E-05
10	3.00000	0.09819	-0.830	209.719	-3.327	169.182
	(STRAIN)		-1.110E-04	9.116E-05	-1.134E-04	3.154E-05
10	10.50000	0.09871	-1.654	55.437	-24.889	27.383
	(STRAIN)		-5.627E-05	1.364E-04	-1.347E-04	2.653E-05
10	18.00000	0.09897	2.219	52.414	-43.059	10.917
	(STRAIN)		-1.025E-05	1.592E-04	-1.631E-04	4.885E-06
10	25.50000	0.09893	9.624	44.231	-62.612	-52.740
	(STRAIN)		2.526E-05	5.640E-05	-3.976E-05	-4.161E-05
10	33.00000	0.09860	14.024	14.444	-162.552	-56.995
	(STRAIN)		6.048E-05	6.086E-05	-9.844E-05	-1.076E-04
11	0.00000	0.09556	0.000	254.862	26.870	212.009
	(STRAIN)		-1.190E-04	9.984E-05	-1.190E-04	5.343E-05
11	3.00000	0.08885	0.041	144.743	-2.998	84.869
	(STRAIN)		-6.643E-05	7.248E-05	-6.935E-05	-5.797E-06
11	10.50000	0.08911	1.806	31.470	-17.570	19.877
	(STRAIN)		-2.346E-05	7.666E-05	-8.885E-05	-2.579E-06
11	18.00000	0.08919	4.362	30.767	-23.746	7.763
	(STRAIN)		1.786E-06	9.090E-05	-9.308E-05	-5.232E-06
11	25.50000	0.08915	7.933	29.244	-35.369	-18.485
	(STRAIN)		1.288E-05	3.206E-05	-2.609E-05	-3.110E-05
11	33.00000	0.08900	10.037	12.929	-93.407	2.993
	(STRAIN)		2.711E-05	2.972E-05	-6.599E-05	-7.760E-05
12	0.00000	0.08742	0.000	190.408	17.424	149.856
	(STRAIN)		-8.819E-05	7.787E-05	-8.819E-05	3.354E-05
12	3.00000	0.08005	0.134	99.076	-3.537	29.022
	(STRAIN)		-3.641E-05	5.858E-05	-3.993E-05	-2.893E-05
12	10.50000	0.08019	1.984	18.964	-12.316	13.997
	(STRAIN)		-1.137E-05	4.594E-05	-5.963E-05	-1.588E-05
12	18.00000	0.08022	4.093	20.143	-14.146	5.931
	(STRAIN)		3.376E-06	5.754E-05	-5.818E-05	-5.597E-06
12	25.50000	0.08021	6.250	25.945	-20.733	-4.101
	(STRAIN)		5.366E-06	2.309E-05	-1.892E-05	-2.438E-05
12	33.00000	0.08014	7.336	33.090	-57.525	6.781

	(STRAIN)		1.072E-05	3.390E-05	-4.765E-05	-6.025E-05

PERIOD NO. 1 LOAD GROUP NO. 9

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.09347	0.000	170.036	14.589	127.310
	(STRAIN)		-7.750E-05	7.173E-05	-7.750E-05	2.480E-05
1	3.00000	0.08402	-0.025	79.247	-13.666	4.071
	(STRAIN)		-2.046E-05	5.565E-05	-3.355E-05	-4.735E-05
1	10.50000	0.08410	1.718	13.974	-10.768	10.320
	(STRAIN)		-6.038E-06	3.533E-05	-4.818E-05	-2.568E-05
1	18.00000	0.08411	3.548	15.171	-10.065	5.316
	(STRAIN)		2.855E-06	4.208E-05	-4.309E-05	-5.879E-06
1	25.50000	0.08411	5.346	30.568	-13.710	0.875
	(STRAIN)		6.742E-07	2.337E-05	-1.648E-05	-2.250E-05
1	33.00000	0.08410	6.243	53.839	-42.028	5.954
	(STRAIN)		1.473E-06	4.431E-05	-4.197E-05	-5.602E-05
2	0.00000	0.10199	0.000	222.143	20.328	174.832
	(STRAIN)		-1.029E-04	9.085E-05	-1.029E-04	3.913E-05
2	3.00000	0.09340	0.157	115.589	-4.127	33.859
	(STRAIN)		-4.248E-05	6.834E-05	-4.659E-05	-3.375E-05
2	10.50000	0.09356	2.315	22.124	-14.369	16.330
	(STRAIN)		-1.326E-05	5.359E-05	-6.957E-05	-1.853E-05
2	18.00000	0.09359	4.775	23.500	-16.504	6.920
	(STRAIN)		3.939E-06	6.714E-05	-6.788E-05	-6.529E-06
2	25.50000	0.09357	7.291	30.269	-24.188	-4.785
	(STRAIN)		6.260E-06	2.694E-05	-2.207E-05	-2.844E-05
2	33.00000	0.09350	8.558	38.605	-67.112	7.911
	(STRAIN)		1.251E-05	3.955E-05	-5.560E-05	-7.029E-05
3	0.00000	0.11148	0.000	297.339	31.349	247.344
	(STRAIN)		-1.389E-04	1.165E-04	-1.389E-04	6.233E-05
3	3.00000	0.10365	0.048	168.867	-3.498	99.014
	(STRAIN)		-7.751E-05	8.456E-05	-8.091E-05	-6.763E-06
3	10.50000	0.10396	2.107	36.715	-20.499	23.190
	(STRAIN)		-2.737E-05	8.943E-05	-1.037E-04	-3.009E-06
3	18.00000	0.10405	5.089	35.895	-27.703	9.057
	(STRAIN)		2.084E-06	1.061E-04	-1.086E-04	-6.104E-06
3	25.50000	0.10401	9.255	34.118	-41.264	-21.566
	(STRAIN)		1.503E-05	3.741E-05	-3.044E-05	-3.628E-05
3	33.00000	0.10383	11.710	15.084	-108.975	3.492
	(STRAIN)		3.163E-05	3.467E-05	-7.698E-05	-9.053E-05
4	0.00000	0.12186	0.000	402.117	54.967	362.339
	(STRAIN)		-1.876E-04	1.457E-04	-1.876E-04	1.012E-04
4	3.00000	0.11456	-0.968	244.673	-3.882	197.380
	(STRAIN)		-1.295E-04	1.064E-04	-1.323E-04	3.680E-05
4	10.50000	0.11516	-1.929	64.676	-29.037	31.947
	(STRAIN)		-6.565E-05	1.591E-04	-1.571E-04	3.095E-05
4	18.00000	0.11547	2.589	61.150	-50.235	12.736
	(STRAIN)		-1.196E-05	1.857E-04	-1.902E-04	5.700E-06
4	25.50000	0.11542	11.228	51.603	-73.048	-61.530
	(STRAIN)		2.947E-05	6.580E-05	-4.638E-05	-4.854E-05
4	33.00000	0.11503	16.361	16.852	-189.645	-66.494
	(STRAIN)		7.056E-05	7.100E-05	-1.148E-04	-1.255E-04
5	0.00000	0.13521	0.000	650.701	169.956	612.063
	(STRAIN)		-2.571E-04	2.044E-04	-2.571E-04	1.633E-04
5	3.00000	0.12762	16.856	565.116	10.844	340.171

	(STRAIN)		-2.525E-04	2.738E-04	-2.583E-04	5.360E-05
5	10.50000	0.12810	67.445	200.816	-12.053	52.759
	(STRAIN)		1.630E-05	4.664E-04	-2.520E-04	-3.631E-05
5	18.00000	0.12770	64.967	177.887	-59.400	48.850
	(STRAIN)		7.284E-05	4.539E-04	-3.469E-04	1.706E-05
5	25.50000	0.12743	40.774	98.747	-141.360	-116.418
	(STRAIN)		7.380E-05	1.260E-04	-9.012E-05	-7.318E-05
5	33.00000	0.12657	23.743	23.913	-351.929	-262.047
	(STRAIN)		1.590E-04	1.592E-04	-1.791E-04	-1.876E-04
6	0.00000	0.15835	700.000	2133.340	1027.096	2123.040
	(STRAIN)		-5.638E-04	4.982E-04	-5.638E-04	4.847E-04
6	3.00000	0.15122	686.098	687.083	370.050	425.403
	(STRAIN)		2.238E-04	2.247E-04	-7.963E-05	-8.389E-05
6	10.50000	0.14300	451.460	454.184	106.366	121.559
	(STRAIN)		9.268E-04	9.360E-04	-2.379E-04	-2.384E-04
6	18.00000	0.13792	257.900	271.108	125.966	139.422
	(STRAIN)		4.010E-04	4.456E-04	-4.430E-05	-1.746E-06
6	25.50000	0.13700	102.783	110.041	-166.874	-160.506
	(STRAIN)		1.432E-04	1.497E-04	-9.947E-05	-1.012E-04
6	33.00000	0.13558	30.941	30.976	-521.536	-488.903
	(STRAIN)		2.564E-04	2.564E-04	-2.408E-04	-2.472E-04
7	0.00000	0.14897	0.000	917.819	295.766	894.375
	(STRAIN)		-3.344E-04	2.628E-04	-3.344E-04	2.403E-04
7	3.00000	0.14086	33.515	929.811	33.481	466.621
	(STRAIN)		-3.873E-04	4.732E-04	-3.873E-04	2.848E-05
7	10.50000	0.14135	132.950	218.522	73.838	133.473
	(STRAIN)		7.610E-05	3.649E-04	-1.234E-04	-1.216E-04
7	18.00000	0.14040	124.435	125.454	85.104	103.057
	(STRAIN)		1.456E-04	1.490E-04	1.281E-05	1.626E-05
7	25.50000	0.13991	70.078	70.204	-176.402	-147.462
	(STRAIN)		1.223E-04	1.224E-04	-9.957E-05	-9.946E-05
7	33.00000	0.13850	32.255	32.263	-544.037	-495.724
	(STRAIN)		2.641E-04	2.641E-04	-2.546E-04	-2.545E-04
8	0.00000	0.15835	700.000	2133.195	1027.096	2123.185
	(STRAIN)		-5.638E-04	4.980E-04	-5.638E-04	4.847E-04
8	3.00000	0.15122	686.098	687.083	370.050	425.403
	(STRAIN)		2.238E-04	2.247E-04	-7.963E-05	-8.389E-05
8	10.50000	0.14300	451.460	454.184	106.366	121.559
	(STRAIN)		9.268E-04	9.360E-04	-2.379E-04	-2.384E-04
8	18.00000	0.13792	257.900	271.108	125.966	139.422
	(STRAIN)		4.010E-04	4.456E-04	-4.430E-05	-1.746E-06
8	25.50000	0.13700	102.783	110.041	-166.874	-160.506
	(STRAIN)		1.432E-04	1.497E-04	-9.947E-05	-1.012E-04
8	33.00000	0.13558	30.941	30.976	-521.536	-488.903
	(STRAIN)		2.564E-04	2.564E-04	-2.408E-04	-2.472E-04
9	0.00000	0.13521	0.000	650.701	169.956	612.063
	(STRAIN)		-2.571E-04	2.044E-04	-2.571E-04	1.633E-04
9	3.00000	0.12762	16.856	565.116	10.844	340.171
	(STRAIN)		-2.525E-04	2.738E-04	-2.583E-04	5.360E-05
9	10.50000	0.12810	67.445	200.816	-12.053	52.759
	(STRAIN)		1.630E-05	4.664E-04	-2.520E-04	-3.631E-05
9	18.00000	0.12770	64.967	177.887	-59.400	48.850
	(STRAIN)		7.284E-05	4.539E-04	-3.469E-04	1.706E-05
9	25.50000	0.12743	40.774	98.747	-141.360	-116.418
	(STRAIN)		7.380E-05	1.260E-04	-9.012E-05	-7.318E-05
9	33.00000	0.12657	23.743	23.913	-351.929	-262.047
	(STRAIN)		1.590E-04	1.592E-04	-1.791E-04	-1.876E-04
10	0.00000	0.12186	0.000	402.117	54.967	362.339
	(STRAIN)		-1.876E-04	1.457E-04	-1.876E-04	1.012E-04

10	3.00000	0.11456	-0.968	244.673	-3.882	197.380
	(STRAIN)		-1.295E-04	1.064E-04	-1.323E-04	3.680E-05
10	10.50000	0.11516	-1.929	64.676	-29.037	31.947
	(STRAIN)		-6.565E-05	1.591E-04	-1.571E-04	3.095E-05
10	18.00000	0.11547	2.589	61.150	-50.235	12.736
	(STRAIN)		-1.196E-05	1.857E-04	-1.902E-04	5.700E-06
10	25.50000	0.11542	11.228	51.603	-73.048	-61.530
	(STRAIN)		2.947E-05	6.580E-05	-4.638E-05	-4.854E-05
10	33.00000	0.11503	16.361	16.852	-189.645	-66.494
	(STRAIN)		7.056E-05	7.100E-05	-1.148E-04	-1.255E-04
11	0.00000	0.11148	0.000	297.339	31.349	247.344
	(STRAIN)		-1.389E-04	1.165E-04	-1.389E-04	6.233E-05
11	3.00000	0.10365	0.048	168.867	-3.498	99.014
	(STRAIN)		-7.751E-05	8.456E-05	-8.091E-05	-6.763E-06
11	10.50000	0.10396	2.107	36.715	-20.499	23.190
	(STRAIN)		-2.737E-05	8.943E-05	-1.037E-04	-3.009E-06
11	18.00000	0.10405	5.089	35.895	-27.703	9.057
	(STRAIN)		2.084E-06	1.061E-04	-1.086E-04	-6.104E-06
11	25.50000	0.10401	9.255	34.118	-41.264	-21.566
	(STRAIN)		1.503E-05	3.741E-05	-3.044E-05	-3.628E-05
11	33.00000	0.10383	11.710	15.084	-108.975	3.492
	(STRAIN)		3.163E-05	3.467E-05	-7.698E-05	-9.053E-05
12	0.00000	0.10199	0.000	222.143	20.328	174.832
	(STRAIN)		-1.029E-04	9.085E-05	-1.029E-04	3.913E-05
12	3.00000	0.09340	0.157	115.589	-4.127	33.859
	(STRAIN)		-4.248E-05	6.834E-05	-4.659E-05	-3.375E-05
12	10.50000	0.09356	2.315	22.124	-14.369	16.330
	(STRAIN)		-1.326E-05	5.359E-05	-6.957E-05	-1.853E-05
12	18.00000	0.09359	4.775	23.500	-16.504	6.920
	(STRAIN)		3.939E-06	6.714E-05	-6.788E-05	-6.529E-06
12	25.50000	0.09357	7.291	30.269	-24.188	-4.785
	(STRAIN)		6.260E-06	2.694E-05	-2.207E-05	-2.844E-05
12	33.00000	0.09350	8.558	38.605	-67.112	7.911
	(STRAIN)		1.251E-05	3.955E-05	-5.560E-05	-7.029E-05

PERIOD NO. 1 LOAD GROUP NO. 10

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.08383	0.000	121.245	10.848	89.498
	(STRAIN)		-5.459E-05	5.140E-05	-5.459E-05	8.896E-06
1	3.00000	0.07672	0.399	52.870	-14.625	2.172
	(STRAIN)		-1.147E-05	3.890E-05	-2.590E-05	-4.437E-05
1	10.50000	0.07676	1.316	10.701	-7.918	6.350
	(STRAIN)		-3.549E-06	2.812E-05	-3.472E-05	-2.363E-05
1	18.00000	0.07677	2.659	11.349	-7.108	4.010
	(STRAIN)		1.754E-06	3.108E-05	-3.121E-05	-4.699E-06
1	25.50000	0.07677	4.006	25.416	-6.576	1.543
	(STRAIN)		-1.151E-06	1.812E-05	-1.067E-05	-1.677E-05
1	33.00000	0.07678	4.686	45.435	-24.073	4.474
	(STRAIN)		-1.811E-06	3.486E-05	-2.769E-05	-4.275E-05
2	0.00000	0.09058	0.000	158.312	15.112	125.753
	(STRAIN)		-7.325E-05	6.422E-05	-7.325E-05	2.084E-05
2	3.00000	0.08410	0.548	79.138	-3.166	20.033
	(STRAIN)		-2.764E-05	4.781E-05	-3.120E-05	-3.383E-05
2	10.50000	0.08420	1.763	16.945	-10.488	10.470
	(STRAIN)		-8.860E-06	4.238E-05	-5.021E-05	-1.799E-05

2	18.00000	0.08423	3.580	17.567	-11.883	5.190
	(STRAIN)		2.567E-06	4.977E-05	-4.962E-05	-4.867E-06
2	25.50000	0.08422	5.465	24.422	-13.979	-1.905
	(STRAIN)		2.926E-06	1.999E-05	-1.457E-05	-2.083E-05
2	33.00000	0.08419	6.424	33.509	-41.466	5.980
	(STRAIN)		6.243E-06	3.062E-05	-3.686E-05	-5.229E-05
3	0.00000	0.09800	0.000	212.362	23.300	180.852
	(STRAIN)		-9.981E-05	8.169E-05	-9.981E-05	3.992E-05
3	3.00000	0.09209	0.474	118.812	-2.219	67.352
	(STRAIN)		-5.350E-05	6.010E-05	-5.609E-05	-1.350E-05
3	10.50000	0.09230	1.611	27.741	-14.973	15.499
	(STRAIN)		-1.930E-05	6.889E-05	-7.527E-05	-6.267E-06
3	18.00000	0.09237	3.822	26.823	-20.201	6.753
	(STRAIN)		1.197E-06	7.882E-05	-7.988E-05	-4.145E-06
3	25.50000	0.09235	6.938	26.453	-26.455	-13.435
	(STRAIN)		9.380E-06	2.694E-05	-2.067E-05	-2.610E-05
3	33.00000	0.09223	8.783	13.000	-71.045	4.804
	(STRAIN)		2.033E-05	2.412E-05	-5.152E-05	-6.567E-05
4	0.00000	0.10602	0.000	290.111	40.846	265.912
	(STRAIN)		-1.359E-04	1.034E-04	-1.359E-04	6.941E-05
4	3.00000	0.10050	-0.280	178.660	-2.441	136.442
	(STRAIN)		-9.198E-05	7.980E-05	-9.406E-05	1.794E-05
4	10.50000	0.10093	-1.384	48.570	-21.310	21.912
	(STRAIN)		-4.770E-05	1.209E-04	-1.149E-04	1.676E-05
4	18.00000	0.10116	1.973	45.656	-36.957	9.454
	(STRAIN)		-9.226E-06	1.382E-04	-1.406E-04	4.693E-06
4	25.50000	0.10113	8.416	39.019	-51.765	-40.743
	(STRAIN)		2.006E-05	4.760E-05	-3.411E-05	-3.434E-05
4	33.00000	0.10086	12.253	12.661	-129.373	-46.654
	(STRAIN)		4.915E-05	4.951E-05	-7.832E-05	-8.953E-05
5	0.00000	0.11617	0.000	472.175	126.267	453.697
	(STRAIN)		-1.874E-04	1.447E-04	-1.874E-04	1.189E-04
5	3.00000	0.11043	12.961	422.149	8.511	236.790
	(STRAIN)		-1.833E-04	2.095E-04	-1.876E-04	2.752E-05
5	10.50000	0.11077	50.153	149.666	-8.608	37.303
	(STRAIN)		1.320E-05	3.491E-04	-1.851E-04	-3.290E-05
5	18.00000	0.11048	48.317	132.400	-43.744	36.254
	(STRAIN)		5.378E-05	3.376E-04	-2.569E-04	1.185E-05
5	25.50000	0.11028	30.375	73.773	-104.019	-79.555
	(STRAIN)		5.296E-05	9.202E-05	-6.800E-05	-5.195E-05
5	33.00000	0.10966	17.748	17.884	-249.096	-192.379
	(STRAIN)		1.148E-04	1.149E-04	-1.253E-04	-1.345E-04
6	0.00000	0.13350	520.000	1587.979	763.000	1561.529
	(STRAIN)		-4.152E-04	3.768E-04	-4.152E-04	3.492E-04
6	3.00000	0.12811	510.110	510.841	258.837	318.375
	(STRAIN)		1.705E-04	1.712E-04	-7.068E-05	-7.387E-05
6	10.50000	0.12199	335.422	337.440	77.034	91.168
	(STRAIN)		6.896E-04	6.964E-04	-1.824E-04	-1.831E-04
6	18.00000	0.11821	191.643	201.470	94.133	103.550
	(STRAIN)		2.975E-04	3.307E-04	-3.156E-05	-1.473E-06
6	25.50000	0.11753	76.445	81.868	-121.649	-113.218
	(STRAIN)		1.045E-04	1.094E-04	-7.378E-05	-7.378E-05
6	33.00000	0.11650	23.104	23.133	-376.510	-359.270
	(STRAIN)		1.871E-04	1.871E-04	-1.726E-04	-1.797E-04
7	0.00000	0.12657	0.000	668.674	219.727	665.088
	(STRAIN)		-2.448E-04	1.862E-04	-2.448E-04	1.828E-04
7	3.00000	0.12046	25.334	693.271	25.311	330.328
	(STRAIN)		-2.834E-04	3.579E-04	-2.834E-04	9.413E-06
7	10.50000	0.12081	98.815	163.221	52.900	99.142

	(STRAIN)		5.765E-05	2.750E-04	-9.732E-05	-9.622E-05
7	18.00000	0.12010	92.499	93.172	63.251	77.165
	(STRAIN)		1.078E-04	1.101E-04	9.083E-06	1.135E-05
7	25.50000	0.11974	52.152	52.245	-123.881	-108.306
	(STRAIN)		8.892E-05	8.901E-05	-6.951E-05	-6.942E-05
7	33.00000	0.11872	24.082	24.091	-389.542	-367.949
	(STRAIN)		1.928E-04	1.928E-04	-1.795E-04	-1.795E-04
8	0.00000	0.13350	520.000	1587.979	763.000	1561.529
	(STRAIN)		-4.152E-04	3.768E-04	-4.152E-04	3.492E-04
8	3.00000	0.12811	510.110	510.841	258.837	318.375
	(STRAIN)		1.705E-04	1.712E-04	-7.068E-05	-7.387E-05
8	10.50000	0.12199	335.422	337.440	77.034	91.168
	(STRAIN)		6.896E-04	6.964E-04	-1.824E-04	-1.831E-04
8	18.00000	0.11821	191.643	201.470	94.133	103.550
	(STRAIN)		2.975E-04	3.307E-04	-3.156E-05	-1.473E-06
8	25.50000	0.11753	76.445	81.868	-121.649	-113.218
	(STRAIN)		1.045E-04	1.094E-04	-7.378E-05	-7.378E-05
8	33.00000	0.11650	23.104	23.133	-376.510	-359.270
	(STRAIN)		1.871E-04	1.871E-04	-1.726E-04	-1.797E-04
9	0.00000	0.11617	0.000	472.175	126.267	453.697
	(STRAIN)		-1.874E-04	1.447E-04	-1.874E-04	1.189E-04
9	3.00000	0.11043	12.961	422.149	8.511	236.790
	(STRAIN)		-1.833E-04	2.095E-04	-1.876E-04	2.752E-05
9	10.50000	0.11077	50.153	149.666	-8.608	37.303
	(STRAIN)		1.320E-05	3.491E-04	-1.851E-04	-3.290E-05
9	18.00000	0.11048	48.317	132.400	-43.744	36.254
	(STRAIN)		5.378E-05	3.376E-04	-2.569E-04	1.185E-05
9	25.50000	0.11028	30.375	73.773	-104.019	-79.555
	(STRAIN)		5.296E-05	9.202E-05	-6.800E-05	-5.195E-05
9	33.00000	0.10966	17.748	17.884	-249.096	-192.379
	(STRAIN)		1.148E-04	1.149E-04	-1.253E-04	-1.345E-04
10	0.00000	0.10602	0.000	290.111	40.846	265.912
	(STRAIN)		-1.359E-04	1.034E-04	-1.359E-04	6.941E-05
10	3.00000	0.10050	-0.280	178.660	-2.441	136.442
	(STRAIN)		-9.198E-05	7.980E-05	-9.406E-05	1.794E-05
10	10.50000	0.10093	-1.384	48.570	-21.310	21.912
	(STRAIN)		-4.770E-05	1.209E-04	-1.149E-04	1.676E-05
10	18.00000	0.10116	1.973	45.656	-36.957	9.454
	(STRAIN)		-9.226E-06	1.382E-04	-1.406E-04	4.693E-06
10	25.50000	0.10113	8.416	39.019	-51.765	-40.743
	(STRAIN)		2.006E-05	4.760E-05	-3.411E-05	-3.434E-05
10	33.00000	0.10086	12.253	12.662	-129.373	-46.654
	(STRAIN)		4.915E-05	4.951E-05	-7.832E-05	-8.953E-05
11	0.00000	0.09800	0.000	212.362	23.300	180.852
	(STRAIN)		-9.981E-05	8.169E-05	-9.981E-05	3.992E-05
11	3.00000	0.09209	0.474	118.812	-2.219	67.352
	(STRAIN)		-5.350E-05	6.010E-05	-5.609E-05	-1.350E-05
11	10.50000	0.09230	1.611	27.741	-14.973	15.499
	(STRAIN)		-1.930E-05	6.889E-05	-7.527E-05	-6.267E-06
11	18.00000	0.09237	3.822	26.823	-20.201	6.753
	(STRAIN)		1.197E-06	7.882E-05	-7.988E-05	-4.145E-06
11	25.50000	0.09235	6.938	26.453	-26.455	-13.435
	(STRAIN)		9.380E-06	2.694E-05	-2.067E-05	-2.610E-05
11	33.00000	0.09223	8.783	13.000	-71.045	4.804
	(STRAIN)		2.033E-05	2.412E-05	-5.152E-05	-6.567E-05
12	0.00000	0.09058	0.000	158.312	15.112	125.753
	(STRAIN)		-7.325E-05	6.422E-05	-7.325E-05	2.084E-05
12	3.00000	0.08410	0.548	79.138	-3.166	20.033
	(STRAIN)		-2.764E-05	4.781E-05	-3.120E-05	-3.383E-05

12	10.50000	0.08420	1.763	16.945	-10.488	10.470
	(STRAIN)		-8.860E-06	4.238E-05	-5.021E-05	-1.799E-05
12	18.00000	0.08423	3.580	17.567	-11.883	5.190
	(STRAIN)		2.567E-06	4.977E-05	-4.962E-05	-4.867E-06
12	25.50000	0.08422	5.465	24.422	-13.979	-1.905
	(STRAIN)		2.926E-06	1.999E-05	-1.457E-05	-2.083E-05
12	33.00000	0.08419	6.424	33.509	-41.466	5.980
	(STRAIN)		6.243E-06	3.062E-05	-3.686E-05	-5.229E-05

PERIOD NO. 1 LOAD GROUP NO. 11

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.09673	0.000	139.898	12.517	103.267
	(STRAIN)		-6.298E-05	5.930E-05	-6.298E-05	1.027E-05
1	3.00000	0.08852	0.460	61.004	-16.874	2.506
	(STRAIN)		-1.324E-05	4.488E-05	-2.988E-05	-5.119E-05
1	10.50000	0.08857	1.519	12.347	-9.137	7.327
	(STRAIN)		-4.094E-06	3.245E-05	-4.006E-05	-2.727E-05
1	18.00000	0.08858	3.068	13.095	-8.202	4.627
	(STRAIN)		2.024E-06	3.586E-05	-3.601E-05	-5.422E-06
1	25.50000	0.08859	4.622	29.326	-7.588	1.780
	(STRAIN)		-1.328E-06	2.091E-05	-1.232E-05	-1.936E-05
1	33.00000	0.08860	5.407	52.425	-27.777	5.162
	(STRAIN)		-2.089E-06	4.023E-05	-3.195E-05	-4.932E-05
2	0.00000	0.10451	0.000	182.667	17.437	145.100
	(STRAIN)		-8.452E-05	7.410E-05	-8.452E-05	2.405E-05
2	3.00000	0.09704	0.632	91.313	-3.653	23.114
	(STRAIN)		-3.189E-05	5.517E-05	-3.600E-05	-3.903E-05
2	10.50000	0.09716	2.034	19.551	-12.102	12.081
	(STRAIN)		-1.022E-05	4.890E-05	-5.793E-05	-2.076E-05
2	18.00000	0.09719	4.130	20.269	-13.711	5.988
	(STRAIN)		2.962E-06	5.743E-05	-5.725E-05	-5.615E-06
2	25.50000	0.09718	6.306	28.180	-16.130	-2.198
	(STRAIN)		3.377E-06	2.306E-05	-1.682E-05	-2.403E-05
2	33.00000	0.09714	7.412	38.664	-47.846	6.900
	(STRAIN)		7.203E-06	3.533E-05	-4.253E-05	-6.034E-05
3	0.00000	0.11308	0.000	245.033	26.884	208.676
	(STRAIN)		-1.152E-04	9.426E-05	-1.152E-04	4.606E-05
3	3.00000	0.10626	0.547	137.091	-2.560	77.714
	(STRAIN)		-6.173E-05	6.935E-05	-6.472E-05	-1.558E-05
3	10.50000	0.10650	1.859	32.009	-17.276	17.884
	(STRAIN)		-2.226E-05	7.949E-05	-8.685E-05	-7.232E-06
3	18.00000	0.10658	4.410	30.949	-23.309	7.792
	(STRAIN)		1.381E-06	9.095E-05	-9.217E-05	-4.782E-06
3	25.50000	0.10656	8.006	30.523	-30.524	-15.502
	(STRAIN)		1.082E-05	3.109E-05	-2.385E-05	-3.011E-05
3	33.00000	0.10642	10.134	15.000	-81.974	5.543
	(STRAIN)		2.345E-05	2.783E-05	-5.944E-05	-7.578E-05
4	0.00000	0.12233	0.000	334.744	47.130	306.821
	(STRAIN)		-1.568E-04	1.193E-04	-1.568E-04	8.009E-05
4	3.00000	0.11596	-0.323	206.146	-2.816	157.433
	(STRAIN)		-1.061E-04	9.208E-05	-1.085E-04	2.069E-05
4	10.50000	0.11646	-1.597	56.042	-24.588	25.283
	(STRAIN)		-5.504E-05	1.395E-04	-1.326E-04	1.933E-05
4	18.00000	0.11672	2.276	52.679	-42.642	10.909
	(STRAIN)		-1.065E-05	1.595E-04	-1.622E-04	5.415E-06

4	25.50000	0.11669	9.711	45.022	-59.729	-47.011
	(STRAIN)		2.314E-05	5.492E-05	-3.936E-05	-3.963E-05
4	33.00000	0.11638	14.138	14.609	-149.277	-53.831
	(STRAIN)		5.671E-05	5.713E-05	-9.037E-05	-1.033E-04
5	0.00000	0.13404	0.000	544.819	145.693	523.494
	(STRAIN)		-2.162E-04	1.669E-04	-2.162E-04	1.372E-04
5	3.00000	0.12742	14.955	487.095	9.821	273.220
	(STRAIN)		-2.115E-04	2.417E-04	-2.165E-04	3.176E-05
5	10.50000	0.12781	57.869	172.691	-9.932	43.042
	(STRAIN)		1.523E-05	4.028E-04	-2.136E-04	-3.796E-05
5	18.00000	0.12747	55.751	152.769	-50.474	41.832
	(STRAIN)		6.205E-05	3.895E-04	-2.965E-04	1.367E-05
5	25.50000	0.12724	35.048	85.123	-120.022	-91.794
	(STRAIN)		6.111E-05	1.062E-04	-7.846E-05	-5.994E-05
5	33.00000	0.12654	20.479	20.635	-287.419	-221.976
	(STRAIN)		1.325E-04	1.326E-04	-1.446E-04	-1.552E-04
6	0.00000	0.15403	600.000	1832.283	880.384	1801.764
	(STRAIN)		-4.791E-04	4.348E-04	-4.791E-04	4.030E-04
6	3.00000	0.14782	588.589	589.433	298.659	367.355
	(STRAIN)		1.968E-04	1.976E-04	-8.155E-05	-8.524E-05
6	10.50000	0.14075	387.025	389.354	88.885	105.194
	(STRAIN)		7.957E-04	8.036E-04	-2.105E-04	-2.113E-04
6	18.00000	0.13639	221.126	232.465	108.616	119.481
	(STRAIN)		3.433E-04	3.816E-04	-3.641E-05	-1.699E-06
6	25.50000	0.13562	88.206	94.463	-140.364	-130.636
	(STRAIN)		1.206E-04	1.262E-04	-8.514E-05	-8.513E-05
6	33.00000	0.13442	26.658	26.692	-434.436	-414.541
	(STRAIN)		2.159E-04	2.159E-04	-1.991E-04	-2.074E-04
7	0.00000	0.14605	0.000	771.555	253.531	767.401
	(STRAIN)		-2.824E-04	2.149E-04	-2.824E-04	2.109E-04
7	3.00000	0.13899	29.231	799.928	29.204	381.148
	(STRAIN)		-3.270E-04	4.129E-04	-3.270E-04	1.086E-05
7	10.50000	0.13939	114.017	188.332	61.038	114.394
	(STRAIN)		6.652E-05	3.173E-04	-1.123E-04	-1.110E-04
7	18.00000	0.13857	106.730	107.506	72.982	89.037
	(STRAIN)		1.244E-04	1.270E-04	1.048E-05	1.310E-05
7	25.50000	0.13817	60.176	60.283	-142.940	-124.968
	(STRAIN)		1.026E-04	1.027E-04	-8.020E-05	-8.010E-05
7	33.00000	0.13698	27.787	27.797	-449.472	-424.556
	(STRAIN)		2.225E-04	2.225E-04	-2.071E-04	-2.071E-04
8	0.00000	0.15403	600.000	1832.283	880.384	1801.764
	(STRAIN)		-4.791E-04	4.348E-04	-4.791E-04	4.030E-04
8	3.00000	0.14782	588.589	589.433	298.659	367.355
	(STRAIN)		1.968E-04	1.976E-04	-8.155E-05	-8.524E-05
8	10.50000	0.14075	387.025	389.354	88.885	105.194
	(STRAIN)		7.957E-04	8.036E-04	-2.105E-04	-2.113E-04
8	18.00000	0.13639	221.126	232.465	108.616	119.481
	(STRAIN)		3.433E-04	3.816E-04	-3.641E-05	-1.699E-06
8	25.50000	0.13562	88.206	94.463	-140.364	-130.636
	(STRAIN)		1.206E-04	1.262E-04	-8.514E-05	-8.513E-05
8	33.00000	0.13442	26.658	26.692	-434.436	-414.541
	(STRAIN)		2.159E-04	2.159E-04	-1.991E-04	-2.074E-04
9	0.00000	0.13404	0.000	544.820	145.693	523.494
	(STRAIN)		-2.162E-04	1.669E-04	-2.162E-04	1.372E-04
9	3.00000	0.12742	14.955	487.095	9.821	273.220
	(STRAIN)		-2.115E-04	2.417E-04	-2.165E-04	3.176E-05
9	10.50000	0.12781	57.869	172.691	-9.932	43.042
	(STRAIN)		1.523E-05	4.028E-04	-2.136E-04	-3.796E-05
9	18.00000	0.12747	55.751	152.769	-50.474	41.832

	(STRAIN)		6.205E-05	3.895E-04	-2.965E-04	1.367E-05
9	25.50000	0.12724	35.048	85.123	-120.022	-91.794
	(STRAIN)		6.111E-05	1.062E-04	-7.846E-05	-5.994E-05
9	33.00000	0.12654	20.479	20.635	-287.419	-221.976
	(STRAIN)		1.325E-04	1.326E-04	-1.446E-04	-1.552E-04
10	0.00000	0.12233	0.000	334.744	47.130	306.821
	(STRAIN)		-1.568E-04	1.193E-04	-1.568E-04	8.009E-05
10	3.00000	0.11596	-0.323	206.146	-2.816	157.433
	(STRAIN)		-1.061E-04	9.208E-05	-1.085E-04	2.069E-05
10	10.50000	0.11646	-1.597	56.042	-24.588	25.283
	(STRAIN)		-5.504E-05	1.395E-04	-1.326E-04	1.933E-05
10	18.00000	0.11672	2.276	52.679	-42.642	10.909
	(STRAIN)		-1.065E-05	1.595E-04	-1.622E-04	5.415E-06
10	25.50000	0.11669	9.711	45.022	-59.729	-47.011
	(STRAIN)		2.314E-05	5.492E-05	-3.936E-05	-3.963E-05
10	33.00000	0.11638	14.138	14.609	-149.277	-53.831
	(STRAIN)		5.671E-05	5.713E-05	-9.037E-05	-1.033E-04
11	0.00000	0.11308	0.000	245.033	26.884	208.676
	(STRAIN)		-1.152E-04	9.426E-05	-1.152E-04	4.606E-05
11	3.00000	0.10626	0.547	137.091	-2.560	77.714
	(STRAIN)		-6.173E-05	6.935E-05	-6.472E-05	-1.558E-05
11	10.50000	0.10650	1.859	32.009	-17.276	17.884
	(STRAIN)		-2.226E-05	7.949E-05	-8.685E-05	-7.232E-06
11	18.00000	0.10658	4.410	30.949	-23.309	7.792
	(STRAIN)		1.381E-06	9.095E-05	-9.217E-05	-4.782E-06
11	25.50000	0.10656	8.006	30.523	-30.524	-15.502
	(STRAIN)		1.082E-05	3.109E-05	-2.385E-05	-3.011E-05
11	33.00000	0.10642	10.134	15.000	-81.974	5.543
	(STRAIN)		2.345E-05	2.783E-05	-5.944E-05	-7.578E-05
12	0.00000	0.10451	0.000	182.667	17.437	145.100
	(STRAIN)		-8.452E-05	7.410E-05	-8.452E-05	2.405E-05
12	3.00000	0.09704	0.632	91.313	-3.653	23.114
	(STRAIN)		-3.189E-05	5.517E-05	-3.600E-05	-3.903E-05
12	10.50000	0.09716	2.034	19.551	-12.102	12.081
	(STRAIN)		-1.022E-05	4.890E-05	-5.793E-05	-2.076E-05
12	18.00000	0.09719	4.130	20.269	-13.711	5.988
	(STRAIN)		2.962E-06	5.743E-05	-5.725E-05	-5.615E-06
12	25.50000	0.09718	6.306	28.180	-16.130	-2.198
	(STRAIN)		3.377E-06	2.306E-05	-1.682E-05	-2.403E-05
12	33.00000	0.09714	7.412	38.664	-47.846	6.900
	(STRAIN)		7.203E-06	3.533E-05	-4.253E-05	-6.034E-05

PERIOD NO. 1 LOAD GROUP NO. 12

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.11285	0.000	163.215	14.603	120.479
	(STRAIN)		-7.348E-05	6.919E-05	-7.348E-05	1.198E-05
1	3.00000	0.10327	0.537	71.172	-19.687	2.924
	(STRAIN)		-1.544E-05	5.236E-05	-3.486E-05	-5.973E-05
1	10.50000	0.10333	1.772	14.405	-10.659	8.548
	(STRAIN)		-4.777E-06	3.786E-05	-4.673E-05	-3.181E-05
1	18.00000	0.10334	3.579	15.277	-9.569	5.399
	(STRAIN)		2.361E-06	4.184E-05	-4.201E-05	-6.326E-06
1	25.50000	0.10335	5.392	34.213	-8.852	2.076
	(STRAIN)		-1.549E-06	2.439E-05	-1.437E-05	-2.258E-05
1	33.00000	0.10336	6.308	61.163	-32.406	6.022

	(STRAIN)		-2.438E-06	4.693E-05	-3.728E-05	-5.754E-05
2	0.00000	0.12193	0.000	213.112	20.343	169.283
	(STRAIN)		-9.861E-05	8.645E-05	-9.861E-05	2.805E-05
2	3.00000	0.11321	0.738	106.532	-4.262	26.967
	(STRAIN)		-3.720E-05	6.436E-05	-4.200E-05	-4.554E-05
2	10.50000	0.11335	2.373	22.810	-14.119	14.094
	(STRAIN)		-1.193E-05	5.705E-05	-6.759E-05	-2.422E-05
2	18.00000	0.11339	4.819	23.647	-15.996	6.986
	(STRAIN)		3.455E-06	6.700E-05	-6.679E-05	-6.551E-06
2	25.50000	0.11338	7.357	32.876	-18.818	-2.565
	(STRAIN)		3.939E-06	2.691E-05	-1.962E-05	-2.804E-05
2	33.00000	0.11333	8.648	45.108	-55.820	8.051
	(STRAIN)		8.404E-06	4.122E-05	-4.962E-05	-7.039E-05
3	0.00000	0.13193	0.000	285.872	31.365	243.455
	(STRAIN)		-1.344E-04	1.100E-04	-1.344E-04	5.374E-05
3	3.00000	0.12397	0.638	159.939	-2.986	90.667
	(STRAIN)		-7.202E-05	8.091E-05	-7.550E-05	-1.817E-05
3	10.50000	0.12425	2.169	37.344	-20.155	20.865
	(STRAIN)		-2.598E-05	9.274E-05	-1.013E-04	-8.437E-06
3	18.00000	0.12435	5.145	36.107	-27.194	9.091
	(STRAIN)		1.612E-06	1.061E-04	-1.075E-04	-5.580E-06
3	25.50000	0.12432	9.340	35.610	-35.612	-18.086
	(STRAIN)		1.263E-05	3.627E-05	-2.783E-05	-3.513E-05
3	33.00000	0.12416	11.823	17.500	-95.637	6.467
	(STRAIN)		2.736E-05	3.247E-05	-6.935E-05	-8.841E-05
4	0.00000	0.14272	0.000	390.535	54.985	357.958
	(STRAIN)		-1.829E-04	1.392E-04	-1.829E-04	9.344E-05
4	3.00000	0.13529	-0.376	240.504	-3.286	183.672
	(STRAIN)		-1.238E-04	1.074E-04	-1.266E-04	2.414E-05
4	10.50000	0.13587	-1.864	65.382	-28.686	29.496
	(STRAIN)		-6.421E-05	1.627E-04	-1.547E-04	2.256E-05
4	18.00000	0.13617	2.656	61.459	-49.749	12.727
	(STRAIN)		-1.242E-05	1.860E-04	-1.893E-04	6.318E-06
4	25.50000	0.13613	11.329	52.525	-69.684	-54.846
	(STRAIN)		2.700E-05	6.407E-05	-4.591E-05	-4.623E-05
4	33.00000	0.13578	16.494	17.044	-174.156	-62.803
	(STRAIN)		6.616E-05	6.665E-05	-1.054E-04	-1.205E-04
5	0.00000	0.15638	0.000	635.624	169.975	610.742
	(STRAIN)		-2.523E-04	1.947E-04	-2.523E-04	1.601E-04
5	3.00000	0.14866	17.447	568.277	11.458	318.756
	(STRAIN)		-2.468E-04	2.820E-04	-2.526E-04	3.705E-05
5	10.50000	0.14912	67.513	201.473	-11.588	50.216
	(STRAIN)		1.777E-05	4.699E-04	-2.492E-04	-4.429E-05
5	18.00000	0.14872	65.043	178.230	-58.887	48.804
	(STRAIN)		7.239E-05	4.544E-04	-3.459E-04	1.595E-05
5	25.50000	0.14845	40.890	99.310	-140.025	-107.093
	(STRAIN)		7.129E-05	1.239E-04	-9.153E-05	-6.994E-05
5	33.00000	0.14762	23.892	24.074	-335.322	-258.972
	(STRAIN)		1.546E-04	1.547E-04	-1.687E-04	-1.811E-04
6	0.00000	0.17971	700.000	2137.711	1027.116	2102.010
	(STRAIN)		-5.589E-04	5.073E-04	-5.589E-04	4.701E-04
6	3.00000	0.17245	686.687	687.671	348.435	428.580
	(STRAIN)		2.296E-04	2.305E-04	-9.514E-05	-9.944E-05
6	10.50000	0.16421	451.529	454.247	103.700	122.726
	(STRAIN)		9.283E-04	9.375E-04	-2.456E-04	-2.465E-04
6	18.00000	0.15912	257.981	271.209	126.718	139.395
	(STRAIN)		4.005E-04	4.452E-04	-4.248E-05	-1.983E-06
6	25.50000	0.15822	102.907	110.207	-163.758	-152.408
	(STRAIN)		1.407E-04	1.472E-04	-9.933E-05	-9.932E-05

6	33.00000	0.15683	31.101	31.141	-506.841	-483.632
	(STRAIN)		2.518E-04	2.519E-04	-2.323E-04	-2.420E-04
7	0.00000	0.17039	0.000	900.147	295.786	895.301
	(STRAIN)		-3.295E-04	2.507E-04	-3.295E-04	2.461E-04
7	3.00000	0.16215	34.103	933.249	34.072	444.673
	(STRAIN)		-3.814E-04	4.817E-04	-3.815E-04	1.267E-05
7	10.50000	0.16263	133.020	219.720	71.211	133.460
	(STRAIN)		7.760E-05	3.702E-04	-1.310E-04	-1.295E-04
7	18.00000	0.16167	124.518	125.425	85.146	103.876
	(STRAIN)		1.451E-04	1.482E-04	1.223E-05	1.529E-05
7	25.50000	0.16119	70.205	70.330	-166.763	-145.796
	(STRAIN)		1.197E-04	1.198E-04	-9.357E-05	-9.345E-05
7	33.00000	0.15981	32.418	32.430	-524.383	-495.316
	(STRAIN)		2.595E-04	2.596E-04	-2.416E-04	-2.416E-04
8	0.00000	0.17971	700.000	2137.671	1027.115	2102.051
	(STRAIN)		-5.589E-04	5.072E-04	-5.589E-04	4.701E-04
8	3.00000	0.17245	686.687	687.671	348.435	428.580
	(STRAIN)		2.296E-04	2.305E-04	-9.514E-05	-9.944E-05
8	10.50000	0.16421	451.529	454.247	103.700	122.726
	(STRAIN)		9.283E-04	9.375E-04	-2.456E-04	-2.465E-04
8	18.00000	0.15912	257.981	271.209	126.718	139.395
	(STRAIN)		4.005E-04	4.452E-04	-4.248E-05	-1.983E-06
8	25.50000	0.15822	102.907	110.207	-163.758	-152.409
	(STRAIN)		1.407E-04	1.472E-04	-9.933E-05	-9.932E-05
8	33.00000	0.15683	31.101	31.141	-506.841	-483.632
	(STRAIN)		2.518E-04	2.519E-04	-2.323E-04	-2.420E-04
9	0.00000	0.15638	0.000	635.624	169.975	610.742
	(STRAIN)		-2.523E-04	1.947E-04	-2.523E-04	1.601E-04
9	3.00000	0.14866	17.447	568.277	11.458	318.756
	(STRAIN)		-2.468E-04	2.820E-04	-2.526E-04	3.705E-05
9	10.50000	0.14912	67.513	201.473	-11.588	50.216
	(STRAIN)		1.777E-05	4.699E-04	-2.492E-04	-4.429E-05
9	18.00000	0.14872	65.043	178.230	-58.887	48.804
	(STRAIN)		7.239E-05	4.544E-04	-3.459E-04	1.595E-05
9	25.50000	0.14845	40.890	99.310	-140.025	-107.093
	(STRAIN)		7.129E-05	1.239E-04	-9.153E-05	-6.994E-05
9	33.00000	0.14762	23.892	24.074	-335.322	-258.972
	(STRAIN)		1.546E-04	1.547E-04	-1.687E-04	-1.811E-04
10	0.00000	0.14272	0.000	390.535	54.985	357.958
	(STRAIN)		-1.829E-04	1.392E-04	-1.829E-04	9.344E-05
10	3.00000	0.13529	-0.376	240.504	-3.286	183.672
	(STRAIN)		-1.238E-04	1.074E-04	-1.266E-04	2.414E-05
10	10.50000	0.13587	-1.864	65.382	-28.686	29.496
	(STRAIN)		-6.421E-05	1.627E-04	-1.547E-04	2.256E-05
10	18.00000	0.13617	2.656	61.459	-49.749	12.727
	(STRAIN)		-1.242E-05	1.860E-04	-1.893E-04	6.318E-06
10	25.50000	0.13613	11.329	52.525	-69.684	-54.846
	(STRAIN)		2.700E-05	6.407E-05	-4.591E-05	-4.623E-05
10	33.00000	0.13578	16.494	17.044	-174.156	-62.803
	(STRAIN)		6.616E-05	6.665E-05	-1.054E-04	-1.205E-04
11	0.00000	0.13193	0.000	285.872	31.365	243.455
	(STRAIN)		-1.344E-04	1.100E-04	-1.344E-04	5.374E-05
11	3.00000	0.12397	0.638	159.939	-2.986	90.667
	(STRAIN)		-7.202E-05	8.091E-05	-7.550E-05	-1.817E-05
11	10.50000	0.12425	2.169	37.344	-20.155	20.865
	(STRAIN)		-2.598E-05	9.274E-05	-1.013E-04	-8.437E-06
11	18.00000	0.12435	5.145	36.107	-27.194	9.091
	(STRAIN)		1.612E-06	1.061E-04	-1.075E-04	-5.580E-06
11	25.50000	0.12432	9.340	35.610	-35.612	-18.086

	(STRAIN)		1.263E-05	3.627E-05	-2.783E-05	-3.513E-05
11	33.00000	0.12416	11.823	17.500	-95.637	6.467
	(STRAIN)		2.736E-05	3.247E-05	-6.935E-05	-8.841E-05
12	0.00000	0.12193	0.000	213.112	20.343	169.283
	(STRAIN)		-9.861E-05	8.645E-05	-9.861E-05	2.805E-05
12	3.00000	0.11321	0.738	106.532	-4.262	26.967
	(STRAIN)		-3.720E-05	6.436E-05	-4.200E-05	-4.554E-05
12	10.50000	0.11335	2.373	22.810	-14.119	14.094
	(STRAIN)		-1.193E-05	5.705E-05	-6.759E-05	-2.422E-05
12	18.00000	0.11339	4.819	23.647	-15.996	6.986
	(STRAIN)		3.455E-06	6.700E-05	-6.679E-05	-6.551E-06
12	25.50000	0.11338	7.357	32.876	-18.818	-2.565
	(STRAIN)		3.939E-06	2.691E-05	-1.962E-05	-2.804E-05
12	33.00000	0.11333	8.648	45.108	-55.820	8.051
	(STRAIN)		8.404E-06	4.122E-05	-4.962E-05	-7.039E-05

Anexo B6
Gr15- 15cm Granular/ 15cm Solo-Cimento

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INPUT FILE NAME  -C:\KENPAVE\para tcc\granular 15\longitudinal\granular 15
longitudinal.DAT

NUMBER OF PROBLEMS TO BE SOLVED =  1

TITLE -MOno G/SC

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
NUMBER OF PERIODS PER YEAR (NPY) =  1
NUMBER OF LOAD GROUPS (NLG) =  9
TOLERANCE FOR INTEGRATION (DEL) -- =  0.001
NUMBER OF LAYERS (NL)------------- =  4
NUMBER OF Z COORDINATES (NZ)------ =  6
LIMIT OF INTEGRATION CYCLES (ICL)- =  80
COMPUTING CODE (NSTD)------------- =  9
SYSTEM OF UNITS (NUNIT)------------=  1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m^3, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 3  15  15
POISSON'S RATIOS OF LAYERS (PR) ARE : 0.44  0.35  0.35  0.35
VERTICAL COORDINATES OF POINTS (ZC) ARE:  0  3  10.5  18  25.5  33
ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE :    1  1.500E+06   2  4.000E+05
   3  1.500E+06   4  3.000E+04

LOAD GROUP NO. 1  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  8
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -61.000   0.000  2 -36.000   0.000
  3 -11.000   0.000  4   0.000   0.000  5  11.000   0.000  6  36.000   0.000
  7  61.000   0.000  8  86.000   0.000

LOAD GROUP NO. 2  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  8
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -61.000   0.000  2 -36.000   0.000
  3 -11.000   0.000  4   0.000   0.000  5  11.000   0.000  6  36.000   0.000
  7  61.000   0.000  8  86.000   0.000

LOAD GROUP NO. 3  HAS 2  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  8
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  0
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WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -61.000   0.000  2 -36.000   0.000
  3 -11.000   0.000  4   0.000   0.000  5  11.000   0.000  6  36.000   0.000
  7  61.000   0.000  8  86.000   0.000

LOAD GROUP NO. 4  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  11
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -61.000   0.000  2 -36.000   0.000
  3 -11.000   0.000  4   0.000   0.000  5  11.000   0.000  6  40.000   0.000
  7  60.000   0.000  8  80.000   0.000  9 109.000   0.000 10 120.000   0.000
 11 132.000   0.000

LOAD GROUP NO. 5  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  11
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -61.000   0.000  2 -36.000   0.000
  3 -11.000   0.000  4   0.000   0.000  5  11.000   0.000  6  40.000   0.000
  7  60.000   0.000  8  80.000   0.000  9 109.000   0.000 10 120.000   0.000
 11 132.000   0.000

LOAD GROUP NO. 6  HAS 4  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  11
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -61.000   0.000  2 -36.000   0.000
  3 -11.000   0.000  4   0.000   0.000  5  11.000   0.000  6  40.000   0.000
  7  60.000   0.000  8  80.000   0.000  9 109.000   0.000 10 120.000   0.000
 11 132.000   0.000

LOAD GROUP NO. 7  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  520
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  11
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- =  35

RESPONSE PT. NO. AND (XPT, YPT) ARE:  1 -61.000   0.000  2 -36.000   0.000
  3 -11.000   0.000  4   0.000   0.000  5  11.000   0.000  6  40.000   0.000
  7  60.000   0.000  8  80.000   0.000  9 109.000   0.000 10 120.000   0.000
 11 132.000   0.000

LOAD GROUP NO. 8  HAS 6  CONTACT AREAS
CONTACT RADIUS (CR)--------------- =  11
CONTACT PRESSURE (CP)------------- =  600
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- =  11
WHEEL SPACING ALONG X-AXIS (XW)------------------- =  120
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WHEEL SPACING ALONG Y-AXIS (YW)------------------- = 35

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 -61.000   0.000 2 -36.000   0.000
  3 -11.000   0.000 4   0.000   0.000 5 11.000   0.000 6 40.000   0.000
  7 60.000   0.000 8 80.000   0.000 9 109.000   0.000 10 120.000   0.000
 11 132.000   0.000

LOAD GROUP NO. 9 HAS 6 CONTACT AREAS
CONTACT RADIUS (CR)--------------- = 11
CONTACT PRESSURE (CP)------------- = 700
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 11
WHEEL SPACING ALONG X-AXIS (XW)------------------- = 120
WHEEL SPACING ALONG Y-AXIS (YW)------------------- = 35

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1   0.000 -87.500 2   0.000 -70.000
  3   0.000 -52.500 4   0.000 -35.000 5   0.000 -17.500 6   0.000   0.000
  7   0.000 17.500 8   0.000 35.000 9   0.000 52.500 10   0.000 70.000
 11   0.000 87.500

PERIOD NO. 1   LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.05127	0.000	182.540	18.377	142.889
	(STRAIN)		-8.321E-05	7.439E-05	-8.321E-05	3.063E-05
1	3.00000	0.04936	0.265	126.248	-2.210	72.105
	(STRAIN)		-5.728E-05	6.366E-05	-5.966E-05	2.104E-07
1	10.50000	0.04958	1.748	24.614	-14.276	17.991
	(STRAIN)		-1.889E-05	5.829E-05	-7.297E-05	-1.107E-06
1	18.00000	0.04964	3.683	24.107	-19.077	6.009
	(STRAIN)		2.770E-06	7.170E-05	-7.404E-05	-7.224E-06
1	25.50000	0.04960	5.977	20.528	-35.920	-16.864
	(STRAIN)		1.291E-05	2.600E-05	-2.480E-05	-2.931E-05
1	33.00000	0.04945	7.207	8.300	-89.898	-1.583
	(STRAIN)		2.589E-05	2.688E-05	-6.150E-05	-7.310E-05
2	0.00000	0.05990	0.000	288.788	42.209	257.273
	(STRAIN)		-1.320E-04	1.047E-04	-1.320E-04	6.370E-05
2	3.00000	0.05823	-0.784	204.439	-3.029	176.288
	(STRAIN)		-1.115E-04	8.547E-05	-1.137E-04	4.408E-05
2	10.50000	0.05874	-2.451	49.742	-23.586	27.786
	(STRAIN)		-5.547E-05	1.207E-04	-1.268E-04	3.241E-05
2	18.00000	0.05901	0.256	45.695	-40.202	8.991
	(STRAIN)		-1.181E-05	1.415E-04	-1.484E-04	-7.889E-07
2	25.50000	0.05895	7.152	35.176	-66.238	-58.329
	(STRAIN)		2.730E-05	5.252E-05	-3.876E-05	-4.582E-05
2	33.00000	0.05861	11.614	11.815	-168.675	-73.798
	(STRAIN)		6.427E-05	6.445E-05	-9.799E-05	-1.199E-04
3	0.00000	0.07283	0.000	691.848	268.159	662.195
	(STRAIN)		-2.184E-04	1.883E-04	-2.184E-04	1.574E-04
3	3.00000	0.07223	229.355	488.065	145.196	216.279
	(STRAIN)		-2.902E-05	2.193E-04	-1.098E-04	-4.370E-05
3	10.50000	0.06995	168.363	234.553	30.520	63.396
	(STRAIN)		2.808E-04	5.042E-04	-1.844E-04	-8.089E-05
3	18.00000	0.06825	109.785	178.718	1.202	65.983
	(STRAIN)		1.554E-04	3.880E-04	-2.111E-04	3.154E-06
3	25.50000	0.06783	50.095	76.712	-132.934	-106.429
	(STRAIN)		8.304E-05	1.070E-04	-8.169E-05	-7.156E-05

3	33.00000	0.06693	18.986	19.027	-352.101	-298.892
	(STRAIN)		1.645E-04	1.646E-04	-1.694E-04	-1.848E-04
4	0.00000	0.08180	0.000	1535.141	757.754	1516.944
	(STRAIN)		-3.901E-04	3.562E-04	-3.901E-04	3.387E-04
4	3.00000	0.07985	509.504	510.070	279.924	291.409
	(STRAIN)		1.719E-04	1.725E-04	-4.848E-05	-4.794E-05
4	10.50000	0.07373	334.723	336.559	81.296	84.418
	(STRAIN)		6.902E-04	6.964E-04	-1.651E-04	-1.651E-04
4	18.00000	0.06995	190.242	199.457	92.026	103.168
	(STRAIN)		2.967E-04	3.278E-04	-3.473E-05	-3.634E-06
4	25.50000	0.06926	74.330	79.705	-135.358	-114.668
	(STRAIN)		1.066E-04	1.115E-04	-8.208E-05	-8.208E-05
4	33.00000	0.06821	20.618	20.635	-414.832	-344.621
	(STRAIN)		1.909E-04	1.910E-04	-2.010E-04	-2.010E-04
5	0.00000	0.07283	0.000	691.848	268.159	662.195
	(STRAIN)		-2.184E-04	1.883E-04	-2.184E-04	1.574E-04
5	3.00000	0.07223	229.355	488.065	145.196	216.279
	(STRAIN)		-2.902E-05	2.193E-04	-1.098E-04	-4.370E-05
5	10.50000	0.06995	168.363	234.553	30.520	63.396
	(STRAIN)		2.808E-04	5.042E-04	-1.844E-04	-8.089E-05
5	18.00000	0.06825	109.785	178.718	1.202	65.983
	(STRAIN)		1.554E-04	3.880E-04	-2.111E-04	3.154E-06
5	25.50000	0.06783	50.095	76.712	-132.934	-106.429
	(STRAIN)		8.304E-05	1.070E-04	-8.169E-05	-7.156E-05
5	33.00000	0.06693	18.986	19.027	-352.101	-298.892
	(STRAIN)		1.645E-04	1.646E-04	-1.694E-04	-1.848E-04
6	0.00000	0.05990	520.000	288.788	42.209	257.273
	(STRAIN)		-1.320E-04	1.047E-04	-1.320E-04	6.370E-05
6	3.00000	0.05823	-0.784	204.439	-3.029	176.288
	(STRAIN)		-1.115E-04	8.547E-05	-1.137E-04	4.408E-05
6	10.50000	0.05874	-2.451	49.742	-23.586	27.786
	(STRAIN)		-5.547E-05	1.207E-04	-1.268E-04	3.241E-05
6	18.00000	0.05901	0.256	45.695	-40.202	8.991
	(STRAIN)		-1.181E-05	1.415E-04	-1.484E-04	-7.889E-07
6	25.50000	0.05895	7.152	35.176	-66.238	-58.329
	(STRAIN)		2.730E-05	5.252E-05	-3.876E-05	-4.582E-05
6	33.00000	0.05861	11.614	11.815	-168.675	-73.798
	(STRAIN)		6.427E-05	6.445E-05	-9.799E-05	-1.199E-04
7	0.00000	0.05127	0.000	182.540	18.377	142.889
	(STRAIN)		-8.321E-05	7.439E-05	-8.321E-05	3.063E-05
7	3.00000	0.04936	0.265	126.248	-2.210	72.105
	(STRAIN)		-5.728E-05	6.366E-05	-5.966E-05	2.104E-07
7	10.50000	0.04958	1.748	24.614	-14.276	17.991
	(STRAIN)		-1.889E-05	5.829E-05	-7.297E-05	-1.107E-06
7	18.00000	0.04964	3.683	24.107	-19.077	6.009
	(STRAIN)		2.770E-06	7.170E-05	-7.404E-05	-7.224E-06
7	25.50000	0.04960	5.977	20.528	-35.920	-16.864
	(STRAIN)		1.291E-05	2.600E-05	-2.480E-05	-2.931E-05
7	33.00000	0.04945	7.207	8.300	-89.898	-1.583
	(STRAIN)		2.589E-05	2.688E-05	-6.150E-05	-7.310E-05
8	0.00000	0.04384	520.000	116.459	9.833	82.988
	(STRAIN)		-5.195E-05	5.041E-05	-5.195E-05	1.538E-05
8	3.00000	0.04135	0.113	74.916	-2.713	17.290
	(STRAIN)		-2.614E-05	4.567E-05	-2.886E-05	-1.788E-05
8	10.50000	0.04144	1.268	11.567	-8.629	11.271
	(STRAIN)		-8.152E-06	2.661E-05	-4.156E-05	-1.004E-05
8	18.00000	0.04147	2.611	13.113	-9.717	3.915
	(STRAIN)		2.415E-06	3.786E-05	-3.919E-05	-4.663E-06
8	25.50000	0.04145	3.923	16.913	-19.401	-3.095

	(STRAIN)		4.833E-06	1.652E-05	-1.616E-05	-1.858E-05
8	33.00000	0.04140	4.546	22.884	-49.912	4.250
	(STRAIN)		9.406E-06	2.591E-05	-3.961E-05	-4.551E-05

PERIOD NO. 1 LOAD GROUP NO. 2

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.05916	0.000	210.623	21.204	164.872
	(STRAIN)		-9.601E-05	8.583E-05	-9.601E-05	3.535E-05
1	3.00000	0.05696	0.306	145.670	-2.550	83.198
	(STRAIN)		-6.609E-05	7.346E-05	-6.883E-05	2.427E-07
1	10.50000	0.05721	2.017	28.401	-16.473	20.758
	(STRAIN)		-2.179E-05	6.725E-05	-8.420E-05	-1.277E-06
1	18.00000	0.05728	4.249	27.816	-22.012	6.934
	(STRAIN)		3.196E-06	8.273E-05	-8.544E-05	-8.336E-06
1	25.50000	0.05723	6.897	23.686	-41.446	-19.458
	(STRAIN)		1.489E-05	3.000E-05	-2.862E-05	-3.382E-05
1	33.00000	0.05706	8.315	9.577	-103.728	-1.827
	(STRAIN)		2.988E-05	3.101E-05	-7.096E-05	-8.435E-05
2	0.00000	0.06912	0.000	333.217	48.703	296.853
	(STRAIN)		-1.524E-04	1.208E-04	-1.524E-04	7.350E-05
2	3.00000	0.06719	-0.904	235.891	-3.495	203.409
	(STRAIN)		-1.287E-04	9.862E-05	-1.312E-04	5.086E-05
2	10.50000	0.06778	-2.828	57.394	-27.214	32.061
	(STRAIN)		-6.400E-05	1.392E-04	-1.463E-04	3.739E-05
2	18.00000	0.06809	0.295	52.725	-46.387	10.374
	(STRAIN)		-1.363E-05	1.633E-04	-1.712E-04	-9.103E-07
2	25.50000	0.06802	8.253	40.587	-76.428	-67.303
	(STRAIN)		3.149E-05	6.060E-05	-4.472E-05	-5.286E-05
2	33.00000	0.06762	13.400	13.633	-194.625	-85.152
	(STRAIN)		7.416E-05	7.437E-05	-1.131E-04	-1.383E-04
3	0.00000	0.08403	0.000	798.285	309.414	764.073
	(STRAIN)		-2.520E-04	2.173E-04	-2.520E-04	1.817E-04
3	3.00000	0.08334	264.640	563.152	167.534	249.553
	(STRAIN)		-3.348E-05	2.531E-04	-1.267E-04	-5.042E-05
3	10.50000	0.08071	194.265	270.638	35.215	73.149
	(STRAIN)		3.240E-04	5.818E-04	-2.128E-04	-9.333E-05
3	18.00000	0.07875	126.675	206.213	1.387	76.134
	(STRAIN)		1.793E-04	4.477E-04	-2.436E-04	3.639E-06
3	25.50000	0.07826	57.802	88.514	-153.385	-122.803
	(STRAIN)		9.581E-05	1.235E-04	-9.426E-05	-8.257E-05
3	33.00000	0.07723	21.907	21.954	-406.271	-344.875
	(STRAIN)		1.899E-04	1.899E-04	-1.955E-04	-2.133E-04
4	0.00000	0.09438	0.000	1771.357	874.332	1750.279
	(STRAIN)		-4.501E-04	4.110E-04	-4.501E-04	3.908E-04
4	3.00000	0.09214	587.889	588.542	322.988	336.242
	(STRAIN)		1.984E-04	1.990E-04	-5.594E-05	-5.532E-05
4	10.50000	0.08507	386.219	388.337	93.804	97.405
	(STRAIN)		7.964E-04	8.035E-04	-1.905E-04	-1.905E-04
4	18.00000	0.08071	219.510	230.142	106.183	119.040
	(STRAIN)		3.424E-04	3.783E-04	-4.008E-05	-4.193E-06
4	25.50000	0.07992	85.766	91.968	-156.182	-132.310
	(STRAIN)		1.230E-04	1.286E-04	-9.471E-05	-9.471E-05
4	33.00000	0.07870	23.790	23.810	-478.652	-397.640
	(STRAIN)		2.203E-04	2.203E-04	-2.319E-04	-2.319E-04
5	0.00000	0.08403	0.000	798.285	309.414	764.073

	(STRAIN)		-2.520E-04	2.173E-04	-2.520E-04	1.817E-04
5	3.00000	0.08334	264.640	563.152	167.534	249.553
	(STRAIN)		-3.348E-05	2.531E-04	-1.267E-04	-5.042E-05
5	10.50000	0.08071	194.265	270.638	35.215	73.149
	(STRAIN)		3.240E-04	5.818E-04	-2.128E-04	-9.333E-05
5	18.00000	0.07875	126.675	206.213	1.387	76.134
	(STRAIN)		1.793E-04	4.477E-04	-2.436E-04	3.639E-06
5	25.50000	0.07826	57.802	88.514	-153.385	-122.803
	(STRAIN)		9.581E-05	1.235E-04	-9.426E-05	-8.257E-05
5	33.00000	0.07723	21.907	21.954	-406.271	-344.875
	(STRAIN)		1.899E-04	1.899E-04	-1.955E-04	-2.133E-04
6	0.00000	0.06912	600.000	333.217	48.703	296.853
	(STRAIN)		-1.524E-04	1.208E-04	-1.524E-04	7.350E-05
6	3.00000	0.06719	-0.904	235.891	-3.495	203.409
	(STRAIN)		-1.287E-04	9.862E-05	-1.312E-04	5.086E-05
6	10.50000	0.06778	-2.828	57.394	-27.214	32.061
	(STRAIN)		-6.400E-05	1.392E-04	-1.463E-04	3.739E-05
6	18.00000	0.06809	0.295	52.725	-46.387	10.374
	(STRAIN)		-1.363E-05	1.633E-04	-1.712E-04	-9.103E-07
6	25.50000	0.06802	8.253	40.587	-76.428	-67.303
	(STRAIN)		3.149E-05	6.060E-05	-4.472E-05	-5.286E-05
6	33.00000	0.06762	13.400	13.633	-194.625	-85.152
	(STRAIN)		7.416E-05	7.437E-05	-1.131E-04	-1.383E-04
7	0.00000	0.05916	0.000	210.623	21.204	164.872
	(STRAIN)		-9.601E-05	8.583E-05	-9.601E-05	3.535E-05
7	3.00000	0.05696	0.306	145.670	-2.550	83.198
	(STRAIN)		-6.609E-05	7.346E-05	-6.883E-05	2.427E-07
7	10.50000	0.05721	2.017	28.401	-16.473	20.758
	(STRAIN)		-2.179E-05	6.725E-05	-8.420E-05	-1.277E-06
7	18.00000	0.05728	4.249	27.816	-22.012	6.934
	(STRAIN)		3.196E-06	8.273E-05	-8.544E-05	-8.336E-06
7	25.50000	0.05723	6.897	23.686	-41.446	-19.458
	(STRAIN)		1.489E-05	3.000E-05	-2.862E-05	-3.382E-05
7	33.00000	0.05706	8.315	9.577	-103.728	-1.827
	(STRAIN)		2.988E-05	3.101E-05	-7.096E-05	-8.435E-05
8	0.00000	0.05059	600.000	134.375	11.346	95.755
	(STRAIN)		-5.994E-05	5.817E-05	-5.994E-05	1.774E-05
8	3.00000	0.04771	0.130	86.441	-3.131	19.949
	(STRAIN)		-3.016E-05	5.269E-05	-3.330E-05	-2.063E-05
8	10.50000	0.04782	1.464	13.347	-9.957	13.005
	(STRAIN)		-9.406E-06	3.070E-05	-4.795E-05	-1.158E-05
8	18.00000	0.04785	3.013	15.131	-11.212	4.518
	(STRAIN)		2.786E-06	4.368E-05	-4.522E-05	-5.381E-06
8	25.50000	0.04783	4.526	19.515	-22.386	-3.572
	(STRAIN)		5.577E-06	1.907E-05	-1.864E-05	-2.144E-05
8	33.00000	0.04776	5.245	26.404	-57.591	4.904
	(STRAIN)		1.085E-05	2.990E-05	-4.570E-05	-5.251E-05

PERIOD NO. 1 LOAD GROUP NO. 3

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.06902	0.000	245.727	24.738	192.351
	(STRAIN)		-1.120E-04	1.001E-04	-1.120E-04	4.124E-05
1	3.00000	0.06645	0.357	169.949	-2.974	97.064
	(STRAIN)		-7.711E-05	8.570E-05	-8.031E-05	2.832E-07
1	10.50000	0.06674	2.353	33.135	-19.218	24.218

	(STRAIN)		-2.543E-05	7.846E-05	-9.823E-05	-1.490E-06
1	18.00000	0.06682	4.957	32.452	-25.681	8.089
	(STRAIN)		3.729E-06	9.652E-05	-9.968E-05	-9.725E-06
1	25.50000	0.06677	8.046	27.634	-48.354	-22.701
	(STRAIN)		1.737E-05	3.500E-05	-3.339E-05	-3.945E-05
1	33.00000	0.06657	9.701	11.173	-121.016	-2.131
	(STRAIN)		3.486E-05	3.618E-05	-8.279E-05	-9.841E-05
2	0.00000	0.08064	0.000	388.753	56.820	346.329
	(STRAIN)		-1.777E-04	1.409E-04	-1.777E-04	8.575E-05
2	3.00000	0.07839	-1.055	275.207	-4.077	237.310
	(STRAIN)		-1.502E-04	1.151E-04	-1.531E-04	5.934E-05
2	10.50000	0.07908	-3.299	66.960	-31.750	37.405
	(STRAIN)		-7.467E-05	1.625E-04	-1.707E-04	4.363E-05
2	18.00000	0.07944	0.344	61.512	-54.118	12.103
	(STRAIN)		-1.590E-05	1.905E-04	-1.997E-04	-1.062E-06
2	25.50000	0.07936	9.628	47.352	-89.166	-78.520
	(STRAIN)		3.674E-05	7.069E-05	-5.217E-05	-6.167E-05
2	33.00000	0.07889	15.634	15.905	-227.063	-99.343
	(STRAIN)		8.652E-05	8.676E-05	-1.319E-04	-1.614E-04
3	0.00000	0.09804	0.000	931.333	360.983	891.417
	(STRAIN)		-2.940E-04	2.535E-04	-2.940E-04	2.119E-04
3	3.00000	0.09723	308.746	657.011	195.457	291.145
	(STRAIN)		-3.906E-05	2.953E-04	-1.478E-04	-5.883E-05
3	10.50000	0.09416	226.642	315.745	41.084	85.340
	(STRAIN)		3.780E-04	6.787E-04	-2.482E-04	-1.089E-04
3	18.00000	0.09188	147.788	240.582	1.618	88.823
	(STRAIN)		2.091E-04	5.223E-04	-2.842E-04	4.245E-06
3	25.50000	0.09131	67.436	103.266	-178.949	-143.270
	(STRAIN)		1.118E-04	1.440E-04	-1.100E-04	-9.633E-05
3	33.00000	0.09010	25.558	25.613	-473.982	-402.354
	(STRAIN)		2.215E-04	2.216E-04	-2.281E-04	-2.488E-04
4	0.00000	0.11011	0.000	2066.580	1020.054	2041.995
	(STRAIN)		-5.251E-04	4.795E-04	-5.251E-04	4.559E-04
4	3.00000	0.10749	685.870	686.633	376.820	392.282
	(STRAIN)		2.314E-04	2.322E-04	-6.527E-05	-6.454E-05
4	10.50000	0.09925	450.589	453.060	109.437	113.640
	(STRAIN)		9.291E-04	9.375E-04	-2.223E-04	-2.223E-04
4	18.00000	0.09416	256.095	268.500	123.881	138.880
	(STRAIN)		3.995E-04	4.413E-04	-4.675E-05	-4.892E-06
4	25.50000	0.09324	100.060	107.296	-182.212	-154.361
	(STRAIN)		1.436E-04	1.501E-04	-1.105E-04	-1.105E-04
4	33.00000	0.09182	27.755	27.778	-558.427	-463.913
	(STRAIN)		2.570E-04	2.571E-04	-2.705E-04	-2.705E-04
5	0.00000	0.09804	0.000	931.333	360.983	891.417
	(STRAIN)		-2.940E-04	2.535E-04	-2.940E-04	2.119E-04
5	3.00000	0.09723	308.746	657.011	195.457	291.145
	(STRAIN)		-3.906E-05	2.953E-04	-1.478E-04	-5.883E-05
5	10.50000	0.09416	226.642	315.745	41.084	85.340
	(STRAIN)		3.780E-04	6.787E-04	-2.482E-04	-1.089E-04
5	18.00000	0.09188	147.788	240.582	1.618	88.823
	(STRAIN)		2.091E-04	5.223E-04	-2.842E-04	4.245E-06
5	25.50000	0.09131	67.436	103.266	-178.949	-143.270
	(STRAIN)		1.118E-04	1.440E-04	-1.100E-04	-9.633E-05
5	33.00000	0.09010	25.558	25.613	-473.982	-402.354
	(STRAIN)		2.215E-04	2.216E-04	-2.281E-04	-2.488E-04
6	0.00000	0.08064	700.000	388.753	56.820	346.329
	(STRAIN)		-1.777E-04	1.409E-04	-1.777E-04	8.575E-05
6	3.00000	0.07839	-1.055	275.207	-4.077	237.310
	(STRAIN)		-1.502E-04	1.151E-04	-1.531E-04	5.934E-05

6	10.50000	0.07908	-3.299	66.960	-31.750	37.405
	(STRAIN)		-7.467E-05	1.625E-04	-1.707E-04	4.363E-05
6	18.00000	0.07944	0.344	61.512	-54.118	12.103
	(STRAIN)		-1.590E-05	1.905E-04	-1.997E-04	-1.062E-06
6	25.50000	0.07936	9.628	47.352	-89.166	-78.520
	(STRAIN)		3.674E-05	7.069E-05	-5.217E-05	-6.167E-05
6	33.00000	0.07889	15.634	15.905	-227.063	-99.343
	(STRAIN)		8.652E-05	8.676E-05	-1.319E-04	-1.614E-04
7	0.00000	0.06902	0.000	245.727	24.738	192.351
	(STRAIN)		-1.120E-04	1.001E-04	-1.120E-04	4.124E-05
7	3.00000	0.06645	0.357	169.949	-2.974	97.064
	(STRAIN)		-7.711E-05	8.570E-05	-8.031E-05	2.832E-07
7	10.50000	0.06674	2.353	33.135	-19.218	24.218
	(STRAIN)		-2.543E-05	7.846E-05	-9.823E-05	-1.490E-06
7	18.00000	0.06682	4.957	32.452	-25.681	8.089
	(STRAIN)		3.729E-06	9.652E-05	-9.968E-05	-9.725E-06
7	25.50000	0.06677	8.046	27.634	-48.354	-22.701
	(STRAIN)		1.737E-05	3.500E-05	-3.339E-05	-3.945E-05
7	33.00000	0.06657	9.701	11.173	-121.016	-2.131
	(STRAIN)		3.486E-05	3.618E-05	-8.279E-05	-9.841E-05
8	0.00000	0.05902	700.000	156.771	13.237	111.714
	(STRAIN)		-6.993E-05	6.786E-05	-6.993E-05	2.070E-05
8	3.00000	0.05566	0.152	100.848	-3.653	23.274
	(STRAIN)		-3.519E-05	6.148E-05	-3.884E-05	-2.407E-05
8	10.50000	0.05579	1.707	15.571	-11.617	15.172
	(STRAIN)		-1.097E-05	3.582E-05	-5.594E-05	-1.351E-05
8	18.00000	0.05582	3.515	17.652	-13.080	5.271
	(STRAIN)		3.251E-06	5.096E-05	-5.276E-05	-6.277E-06
8	25.50000	0.05580	5.281	22.768	-26.117	-4.167
	(STRAIN)		6.506E-06	2.224E-05	-2.175E-05	-2.501E-05
8	33.00000	0.05573	6.120	30.805	-67.189	5.722
	(STRAIN)		1.266E-05	3.488E-05	-5.332E-05	-6.127E-05

PERIOD NO. 1 LOAD GROUP NO. 4

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.07748	0.000	210.810	20.730	160.261
	(STRAIN)		-9.503E-05	8.745E-05	-9.503E-05	3.325E-05
1	3.00000	0.07112	0.248	135.091	-3.323	51.828
	(STRAIN)		-5.362E-05	7.583E-05	-5.704E-05	-1.658E-05
1	10.50000	0.07133	1.915	23.441	-15.792	19.939
	(STRAIN)		-1.768E-05	5.497E-05	-7.744E-05	-1.004E-05
1	18.00000	0.07138	4.031	24.750	-19.386	7.019
	(STRAIN)		2.770E-06	7.270E-05	-7.626E-05	-8.458E-06
1	25.50000	0.07135	6.507	26.659	-35.949	-11.071
	(STRAIN)		1.061E-05	2.874E-05	-2.760E-05	-3.211E-05
1	33.00000	0.07123	7.842	23.936	-93.214	6.928
	(STRAIN)		2.161E-05	3.609E-05	-6.934E-05	-8.095E-05
2	0.00000	0.08946	0.000	326.879	45.356	282.760
	(STRAIN)		-1.486E-04	1.217E-04	-1.486E-04	6.875E-05
2	3.00000	0.08369	-0.989	217.640	-3.712	158.012
	(STRAIN)		-1.101E-04	9.983E-05	-1.127E-04	2.791E-05
2	10.50000	0.08419	-2.150	48.841	-25.305	30.739
	(STRAIN)		-5.475E-05	1.173E-04	-1.329E-04	2.847E-05
2	18.00000	0.08446	0.881	47.455	-41.253	10.324
	(STRAIN)		-1.149E-05	1.457E-04	-1.537E-04	-1.927E-06

2	25.50000	0.08441	8.099	41.402	-67.009	-51.440
	(STRAIN)		2.527E-05	5.524E-05	-4.233E-05	-4.997E-05
2	33.00000	0.08409	12.735	13.172	-175.435	-47.608
	(STRAIN)		6.043E-05	6.082E-05	-1.089E-04	-1.306E-04
3	0.00000	0.10653	0.000	748.061	272.577	698.053
	(STRAIN)		-2.425E-04	2.140E-04	-2.425E-04	1.627E-04
3	3.00000	0.10233	229.353	475.852	138.567	244.083
	(STRAIN)		-3.165E-05	2.050E-04	-1.188E-04	-2.208E-05
3	10.50000	0.10005	168.879	236.736	26.589	67.863
	(STRAIN)		2.802E-04	5.092E-04	-2.001E-04	-6.697E-05
3	18.00000	0.09836	110.856	182.631	-1.357	67.815
	(STRAIN)		1.562E-04	3.984E-04	-2.225E-04	5.633E-06
3	25.50000	0.09794	51.711	81.811	-121.949	-111.772
	(STRAIN)		8.199E-05	1.091E-04	-7.431E-05	-7.454E-05
3	33.00000	0.09706	20.884	20.959	-344.934	-292.001
	(STRAIN)		1.625E-04	1.626E-04	-1.667E-04	-1.898E-04
4	0.00000	0.11763	0.000	1584.666	762.986	1577.217
	(STRAIN)		-4.188E-04	3.700E-04	-4.188E-04	3.600E-04
4	3.00000	0.11233	509.673	510.406	274.896	316.012
	(STRAIN)		1.662E-04	1.669E-04	-5.915E-05	-6.232E-05
4	10.50000	0.10623	335.370	337.394	79.015	90.301
	(STRAIN)		6.885E-04	6.953E-04	-1.767E-04	-1.771E-04
4	18.00000	0.10245	191.583	201.395	93.575	103.571
	(STRAIN)		2.979E-04	3.310E-04	-3.291E-05	-1.297E-06
4	25.50000	0.10177	76.353	81.745	-123.963	-119.233
	(STRAIN)		1.064E-04	1.112E-04	-7.389E-05	-7.519E-05
4	33.00000	0.10072	22.985	23.010	-387.427	-363.185
	(STRAIN)		1.905E-04	1.905E-04	-1.789E-04	-1.836E-04
5	0.00000	0.11101	0.000	769.551	274.448	716.519
	(STRAIN)		-2.529E-04	2.224E-04	-2.529E-04	1.713E-04
5	3.00000	0.10733	229.608	478.547	147.738	258.731
	(STRAIN)		-3.918E-05	1.998E-04	-1.178E-04	-1.190E-05
5	10.50000	0.10508	169.170	230.143	35.741	69.319
	(STRAIN)		2.776E-04	4.834E-04	-1.727E-04	-6.455E-05
5	18.00000	0.10339	111.453	174.676	7.691	68.296
	(STRAIN)		1.568E-04	3.702E-04	-1.934E-04	8.441E-06
5	25.50000	0.10297	52.612	76.751	-122.518	-110.974
	(STRAIN)		8.392E-05	1.056E-04	-7.369E-05	-6.696E-05
5	33.00000	0.10206	21.923	21.946	-340.343	-309.518
	(STRAIN)		1.662E-04	1.663E-04	-1.598E-04	-1.684E-04
6	0.00000	0.10389	520.000	388.347	46.791	333.360
	(STRAIN)		-1.805E-04	1.474E-04	-1.805E-04	9.303E-05
6	3.00000	0.09996	-0.221	265.730	-1.048	188.057
	(STRAIN)		-1.330E-04	1.223E-04	-1.338E-04	4.696E-05
6	10.50000	0.10052	0.204	42.306	-10.705	32.806
	(STRAIN)		-5.567E-05	8.643E-05	-9.249E-05	3.549E-05
6	18.00000	0.10076	3.977	31.642	-21.709	11.054
	(STRAIN)		-4.941E-06	8.843E-05	-9.163E-05	-2.670E-06
6	25.50000	0.10068	11.233	25.910	-78.731	-34.766
	(STRAIN)		3.055E-05	4.376E-05	-5.042E-05	-5.051E-05
6	33.00000	0.10031	15.799	15.847	-197.248	-46.795
	(STRAIN)		6.747E-05	6.751E-05	-1.243E-04	-1.282E-04
7	0.00000	0.10320	0.000	366.957	37.847	297.369
	(STRAIN)		-1.696E-04	1.463E-04	-1.696E-04	7.950E-05
7	3.00000	0.09941	0.547	249.698	0.392	153.599
	(STRAIN)		-1.179E-04	1.213E-04	-1.180E-04	2.904E-05
7	10.50000	0.09986	3.465	37.677	1.140	19.272
	(STRAIN)		-3.913E-05	7.633E-05	-4.698E-05	1.421E-05
7	18.00000	0.09999	7.368	19.787	-0.728	3.273

	(STRAIN)		5.326E-06	4.724E-05	-2.200E-05	-8.493E-06
7	25.50000	0.09990	12.105	12.959	-70.226	-10.347
	(STRAIN)		2.667E-05	2.744E-05	-4.743E-05	-4.666E-05
7	33.00000	0.09960	14.681	14.693	-173.349	-14.751
	(STRAIN)		5.367E-05	5.369E-05	-1.156E-04	-1.155E-04
8	0.00000	0.10389	520.000	388.347	46.791	333.360
	(STRAIN)		-1.805E-04	1.474E-04	-1.805E-04	9.303E-05
8	3.00000	0.09996	-0.221	265.730	-1.048	188.057
	(STRAIN)		-1.330E-04	1.223E-04	-1.338E-04	4.696E-05
8	10.50000	0.10052	0.204	42.306	-10.705	32.806
	(STRAIN)		-5.567E-05	8.643E-05	-9.249E-05	3.549E-05
8	18.00000	0.10076	3.977	31.642	-21.709	11.054
	(STRAIN)		-4.941E-06	8.843E-05	-9.163E-05	-2.670E-06
8	25.50000	0.10068	11.233	25.910	-78.731	-34.766
	(STRAIN)		3.055E-05	4.376E-05	-5.042E-05	-5.051E-05
8	33.00000	0.10031	15.799	15.847	-197.248	-46.795
	(STRAIN)		6.747E-05	6.751E-05	-1.243E-04	-1.282E-04
9	0.00000	0.11101	0.000	769.552	274.448	716.518
	(STRAIN)		-2.529E-04	2.224E-04	-2.529E-04	1.713E-04
9	3.00000	0.10733	229.608	478.547	147.739	258.731
	(STRAIN)		-3.918E-05	1.998E-04	-1.178E-04	-1.190E-05
9	10.50000	0.10508	169.170	230.143	35.741	69.319
	(STRAIN)		2.776E-04	4.834E-04	-1.727E-04	-6.455E-05
9	18.00000	0.10339	111.453	174.676	7.691	68.296
	(STRAIN)		1.568E-04	3.702E-04	-1.934E-04	8.441E-06
9	25.50000	0.10297	52.612	76.751	-122.518	-110.974
	(STRAIN)		8.392E-05	1.056E-04	-7.369E-05	-6.696E-05
9	33.00000	0.10206	21.923	21.946	-340.344	-309.518
	(STRAIN)		1.662E-04	1.663E-04	-1.598E-04	-1.684E-04
10	0.00000	0.11763	0.000	1584.785	762.986	1577.097
	(STRAIN)		-4.188E-04	3.701E-04	-4.188E-04	3.600E-04
10	3.00000	0.11233	509.673	510.406	274.896	316.012
	(STRAIN)		1.662E-04	1.669E-04	-5.915E-05	-6.232E-05
10	10.50000	0.10623	335.370	337.393	79.015	90.301
	(STRAIN)		6.885E-04	6.953E-04	-1.767E-04	-1.771E-04
10	18.00000	0.10245	191.583	201.395	93.575	103.571
	(STRAIN)		2.979E-04	3.310E-04	-3.291E-05	-1.297E-06
10	25.50000	0.10177	76.353	81.745	-123.963	-119.233
	(STRAIN)		1.064E-04	1.112E-04	-7.389E-05	-7.519E-05
10	33.00000	0.10072	22.985	23.010	-387.427	-363.185
	(STRAIN)		1.905E-04	1.905E-04	-1.789E-04	-1.836E-04
11	0.00000	0.10542	0.000	690.287	239.540	645.611
	(STRAIN)		-2.322E-04	2.005E-04	-2.322E-04	1.538E-04
11	3.00000	0.10082	155.880	545.364	108.698	286.112
	(STRAIN)		-1.261E-04	2.478E-04	-1.714E-04	-3.921E-06
11	10.50000	0.09927	145.371	221.359	19.843	64.851
	(STRAIN)		2.228E-04	4.793E-04	-2.008E-04	-5.583E-05
11	18.00000	0.09786	99.560	175.713	-10.517	62.656
	(STRAIN)		1.366E-04	3.937E-04	-2.349E-04	6.618E-06
11	25.50000	0.09748	48.135	81.025	-120.987	-110.205
	(STRAIN)		7.836E-05	1.080E-04	-7.385E-05	-7.366E-05
11	33.00000	0.09662	20.566	20.648	-337.704	-280.944
	(STRAIN)		1.580E-04	1.581E-04	-1.644E-04	-1.885E-04

PERIOD NO. 1 LOAD GROUP NO. 5

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS	MAJOR PRINCIPAL STRESS	MINOR PRINCIAL STRESS	INTERMEDIATE P. STRESS (HORIZONTAL

			(STRAIN)	(STRAIN)	(STRAIN)	P. STRAIN)
1	0.00000	0.08940	0.000	243.242	23.919	184.916
	(STRAIN)		-1.096E-04	1.009E-04	-1.096E-04	3.837E-05
1	3.00000	0.08206	0.286	155.875	-3.834	59.802
	(STRAIN)		-6.187E-05	8.750E-05	-6.582E-05	-1.913E-05
1	10.50000	0.08230	2.210	27.048	-18.221	23.006
	(STRAIN)		-2.040E-05	6.343E-05	-8.935E-05	-1.159E-05
1	18.00000	0.08236	4.651	28.558	-22.368	8.099
	(STRAIN)		3.196E-06	8.388E-05	-8.800E-05	-9.759E-06
1	25.50000	0.08233	7.508	30.761	-41.479	-12.775
	(STRAIN)		1.224E-05	3.317E-05	-3.185E-05	-3.704E-05
1	33.00000	0.08218	9.048	27.618	-107.555	7.993
	(STRAIN)		2.493E-05	4.164E-05	-8.001E-05	-9.340E-05
2	0.00000	0.10322	0.000	377.168	52.334	326.262
	(STRAIN)		-1.714E-04	1.404E-04	-1.714E-04	7.932E-05
2	3.00000	0.09657	-1.141	251.123	-4.283	182.322
	(STRAIN)		-1.270E-04	1.152E-04	-1.300E-04	3.220E-05
2	10.50000	0.09715	-2.481	56.355	-29.198	35.468
	(STRAIN)		-6.317E-05	1.354E-04	-1.533E-04	3.285E-05
2	18.00000	0.09745	1.016	54.755	-47.600	11.912
	(STRAIN)		-1.325E-05	1.681E-04	-1.773E-04	-2.223E-06
2	25.50000	0.09740	9.345	47.772	-77.318	-59.353
	(STRAIN)		2.915E-05	6.374E-05	-4.884E-05	-5.765E-05
2	33.00000	0.09702	14.694	15.199	-202.425	-54.932
	(STRAIN)		6.973E-05	7.018E-05	-1.257E-04	-1.507E-04
3	0.00000	0.12292	0.000	863.146	314.512	805.447
	(STRAIN)		-2.798E-04	2.469E-04	-2.798E-04	1.878E-04
3	3.00000	0.11807	264.638	549.060	159.885	281.635
	(STRAIN)		-3.652E-05	2.365E-04	-1.371E-04	-2.548E-05
3	10.50000	0.11545	194.860	273.157	30.680	78.303
	(STRAIN)		3.233E-04	5.875E-04	-2.308E-04	-7.727E-05
3	18.00000	0.11349	127.911	210.728	-1.566	78.248
	(STRAIN)		1.802E-04	4.597E-04	-2.568E-04	6.500E-06
3	25.50000	0.11301	59.666	94.397	-140.711	-128.967
	(STRAIN)		9.460E-05	1.259E-04	-8.574E-05	-8.601E-05
3	33.00000	0.11199	24.097	24.184	-398.001	-336.924
	(STRAIN)		1.875E-04	1.876E-04	-1.924E-04	-2.191E-04
4	0.00000	0.13573	0.000	1828.570	880.368	1819.756
	(STRAIN)		-4.833E-04	4.270E-04	-4.833E-04	4.154E-04
4	3.00000	0.12962	588.084	588.929	317.187	364.631
	(STRAIN)		1.918E-04	1.926E-04	-6.825E-05	-7.191E-05
4	10.50000	0.12258	386.965	389.300	91.171	104.194
	(STRAIN)		7.944E-04	8.023E-04	-2.039E-04	-2.044E-04
4	18.00000	0.11821	221.057	232.378	107.971	119.505
	(STRAIN)		3.437E-04	3.819E-04	-3.797E-05	-1.497E-06
4	25.50000	0.11743	88.100	94.321	-143.035	-137.577
	(STRAIN)		1.228E-04	1.284E-04	-8.526E-05	-8.676E-05
4	33.00000	0.11621	26.521	26.551	-447.030	-419.060
	(STRAIN)		2.198E-04	2.198E-04	-2.064E-04	-2.119E-04
5	0.00000	0.12809	0.000	887.945	316.671	826.751
	(STRAIN)		-2.919E-04	2.566E-04	-2.919E-04	1.977E-04
5	3.00000	0.12384	264.932	552.170	170.467	298.536
	(STRAIN)		-4.521E-05	2.305E-04	-1.359E-04	-1.373E-05
5	10.50000	0.12125	195.196	265.549	41.240	79.983
	(STRAIN)		3.204E-04	5.578E-04	-1.992E-04	-7.448E-05
5	18.00000	0.11930	128.600	201.550	8.874	78.803
	(STRAIN)		1.810E-04	4.272E-04	-2.231E-04	9.739E-06
5	25.50000	0.11881	60.707	88.559	-141.367	-128.047
	(STRAIN)		9.684E-05	1.219E-04	-8.503E-05	-7.726E-05

5	33.00000	0.11777	25.296	25.322	-392.704	-357.136
	(STRAIN)		1.918E-04	1.918E-04	-1.844E-04	-1.943E-04
6	0.00000	0.11987	600.000	448.093	53.990	384.645
	(STRAIN)		-2.083E-04	1.701E-04	-2.083E-04	1.073E-04
6	3.00000	0.11534	-0.255	306.612	-1.209	216.989
	(STRAIN)		-1.535E-04	1.411E-04	-1.544E-04	5.419E-05
6	10.50000	0.11599	0.236	48.815	-12.352	37.853
	(STRAIN)		-6.423E-05	9.972E-05	-1.067E-04	4.095E-05
6	18.00000	0.11626	4.589	36.510	-25.049	12.754
	(STRAIN)		-5.701E-06	1.020E-04	-1.057E-04	-3.081E-06
6	25.50000	0.11617	12.961	29.896	-90.843	-40.115
	(STRAIN)		3.525E-05	5.049E-05	-5.818E-05	-5.829E-05
6	33.00000	0.11574	18.230	18.285	-227.594	-53.994
	(STRAIN)		7.784E-05	7.789E-05	-1.434E-04	-1.480E-04
7	0.00000	0.11908	0.000	423.412	43.670	343.118
	(STRAIN)		-1.957E-04	1.688E-04	-1.957E-04	9.173E-05
7	3.00000	0.11471	0.632	288.113	0.453	177.230
	(STRAIN)		-1.360E-04	1.400E-04	-1.362E-04	3.351E-05
7	10.50000	0.11522	3.998	43.473	1.315	22.237
	(STRAIN)		-4.516E-05	8.807E-05	-5.421E-05	1.640E-05
7	18.00000	0.11537	8.501	22.831	-0.840	3.777
	(STRAIN)		6.145E-06	5.451E-05	-2.538E-05	-9.800E-06
7	25.50000	0.11527	13.968	14.952	-81.030	-11.938
	(STRAIN)		3.077E-05	3.166E-05	-5.472E-05	-5.384E-05
7	33.00000	0.11492	16.939	16.954	-200.018	-17.020
	(STRAIN)		6.193E-05	6.194E-05	-1.333E-04	-1.333E-04
8	0.00000	0.11987	600.000	448.093	53.990	384.645
	(STRAIN)		-2.083E-04	1.701E-04	-2.083E-04	1.073E-04
8	3.00000	0.11534	-0.255	306.612	-1.209	216.989
	(STRAIN)		-1.535E-04	1.411E-04	-1.544E-04	5.419E-05
8	10.50000	0.11599	0.236	48.815	-12.352	37.852
	(STRAIN)		-6.423E-05	9.972E-05	-1.067E-04	4.095E-05
8	18.00000	0.11626	4.589	36.510	-25.049	12.754
	(STRAIN)		-5.701E-06	1.020E-04	-1.057E-04	-3.081E-06
8	25.50000	0.11617	12.961	29.896	-90.843	-40.115
	(STRAIN)		3.525E-05	5.049E-05	-5.818E-05	-5.829E-05
8	33.00000	0.11574	18.230	18.285	-227.594	-53.994
	(STRAIN)		7.784E-05	7.789E-05	-1.434E-04	-1.480E-04
9	0.00000	0.12809	0.000	887.945	316.671	826.751
	(STRAIN)		-2.919E-04	2.566E-04	-2.919E-04	1.977E-04
9	3.00000	0.12384	264.932	552.170	170.467	298.536
	(STRAIN)		-4.521E-05	2.305E-04	-1.359E-04	-1.373E-05
9	10.50000	0.12125	195.196	265.549	41.240	79.983
	(STRAIN)		3.204E-04	5.578E-04	-1.992E-04	-7.448E-05
9	18.00000	0.11930	128.600	201.550	8.874	78.803
	(STRAIN)		1.810E-04	4.272E-04	-2.231E-04	9.739E-06
9	25.50000	0.11881	60.707	88.559	-141.367	-128.047
	(STRAIN)		9.684E-05	1.219E-04	-8.503E-05	-7.726E-05
9	33.00000	0.11777	25.296	25.322	-392.704	-357.136
	(STRAIN)		1.918E-04	1.918E-04	-1.844E-04	-1.943E-04
10	0.00000	0.13573	0.000	1828.491	880.368	1819.835
	(STRAIN)		-4.833E-04	4.269E-04	-4.833E-04	4.154E-04
10	3.00000	0.12962	588.084	588.929	317.186	364.632
	(STRAIN)		1.918E-04	1.926E-04	-6.825E-05	-7.191E-05
10	10.50000	0.12258	386.965	389.300	91.171	104.194
	(STRAIN)		7.944E-04	8.023E-04	-2.039E-04	-2.044E-04
10	18.00000	0.11821	221.057	232.378	107.971	119.505
	(STRAIN)		3.437E-04	3.819E-04	-3.797E-05	-1.497E-06
10	25.50000	0.11743	88.100	94.321	-143.035	-137.576

	(STRAIN)		1.228E-04	1.284E-04	-8.526E-05	-8.676E-05
10	33.00000	0.11621	26.521	26.551	-447.030	-419.061
	(STRAIN)		2.198E-04	2.198E-04	-2.064E-04	-2.119E-04
11	0.00000	0.12164	0.000	796.486	276.392	744.934
	(STRAIN)		-2.679E-04	2.314E-04	-2.679E-04	1.775E-04
11	3.00000	0.11633	179.861	629.266	125.421	330.129
	(STRAIN)		-1.455E-04	2.859E-04	-1.978E-04	-4.524E-06
11	10.50000	0.11454	167.735	255.415	22.896	74.829
	(STRAIN)		2.571E-04	5.530E-04	-2.317E-04	-6.442E-05
11	18.00000	0.11291	114.876	202.745	-12.135	72.296
	(STRAIN)		1.577E-04	4.542E-04	-2.710E-04	7.637E-06
11	25.50000	0.11247	55.540	93.490	-139.600	-127.159
	(STRAIN)		9.042E-05	1.246E-04	-8.521E-05	-8.499E-05
11	33.00000	0.11149	23.730	23.825	-389.658	-324.167
	(STRAIN)		1.824E-04	1.824E-04	-1.897E-04	-2.175E-04

PERIOD NO. 1 LOAD GROUP NO. 6

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.10430	0.000	283.783	27.905	215.736
	(STRAIN)		-1.279E-04	1.177E-04	-1.279E-04	4.476E-05
1	3.00000	0.09574	0.334	181.854	-4.473	69.769
	(STRAIN)		-7.218E-05	1.021E-04	-7.679E-05	-2.232E-05
1	10.50000	0.09601	2.578	31.556	-21.258	26.841
	(STRAIN)		-2.380E-05	7.400E-05	-1.042E-04	-1.352E-05
1	18.00000	0.09609	5.427	33.318	-26.096	9.449
	(STRAIN)		3.729E-06	9.786E-05	-1.027E-04	-1.139E-05
1	25.50000	0.09605	8.759	35.887	-48.393	-14.904
	(STRAIN)		1.428E-05	3.869E-05	-3.716E-05	-4.322E-05
1	33.00000	0.09588	10.556	32.221	-125.480	9.326
	(STRAIN)		2.909E-05	4.858E-05	-9.335E-05	-1.090E-04
2	0.00000	0.12043	0.000	440.029	61.057	380.639
	(STRAIN)		-2.000E-04	1.638E-04	-2.000E-04	9.255E-05
2	3.00000	0.11266	-1.332	292.977	-4.997	212.709
	(STRAIN)		-1.481E-04	1.344E-04	-1.517E-04	3.757E-05
2	10.50000	0.11334	-2.895	65.747	-34.064	41.379
	(STRAIN)		-7.370E-05	1.580E-04	-1.789E-04	3.833E-05
2	18.00000	0.11369	1.186	63.881	-55.533	13.897
	(STRAIN)		-1.546E-05	1.961E-04	-2.069E-04	-2.594E-06
2	25.50000	0.11363	10.903	55.734	-90.204	-69.246
	(STRAIN)		3.401E-05	7.436E-05	-5.698E-05	-6.726E-05
2	33.00000	0.11319	17.144	17.732	-236.163	-64.088
	(STRAIN)		8.135E-05	8.188E-05	-1.466E-04	-1.759E-04
3	0.00000	0.14341	0.000	1007.005	366.931	939.687
	(STRAIN)		-3.264E-04	2.881E-04	-3.264E-04	2.191E-04
3	3.00000	0.13775	308.744	640.570	186.533	328.574
	(STRAIN)		-4.260E-05	2.759E-04	-1.599E-04	-2.973E-05
3	10.50000	0.13469	227.337	318.683	35.793	91.354
	(STRAIN)		3.772E-04	6.855E-04	-2.693E-04	-9.015E-05
3	18.00000	0.13240	149.230	245.850	-1.827	91.289
	(STRAIN)		2.103E-04	5.363E-04	-2.996E-04	7.583E-06
3	25.50000	0.13184	69.611	110.130	-164.162	-150.462
	(STRAIN)		1.104E-04	1.468E-04	-1.000E-04	-1.003E-04
3	33.00000	0.13066	28.113	28.214	-464.335	-393.078
	(STRAIN)		2.188E-04	2.189E-04	-2.244E-04	-2.556E-04
4	0.00000	0.15835	0.000	2133.340	1027.096	2123.040

	(STRAIN)		-5.638E-04	4.982E-04	-5.638E-04	4.847E-04
4	3.00000	0.15122	686.098	687.083	370.050	425.403
	(STRAIN)		2.238E-04	2.247E-04	-7.963E-05	-8.389E-05
4	10.50000	0.14300	451.460	454.184	106.366	121.559
	(STRAIN)		9.268E-04	9.360E-04	-2.379E-04	-2.384E-04
4	18.00000	0.13792	257.900	271.108	125.966	139.422
	(STRAIN)		4.010E-04	4.456E-04	-4.430E-05	-1.746E-06
4	25.50000	0.13700	102.783	110.041	-166.874	-160.506
	(STRAIN)		1.432E-04	1.497E-04	-9.947E-05	-1.012E-04
4	33.00000	0.13558	30.941	30.976	-521.536	-488.903
	(STRAIN)		2.564E-04	2.564E-04	-2.408E-04	-2.472E-04
5	0.00000	0.14943	0.000	1035.932	369.449	964.546
	(STRAIN)		-3.405E-04	2.993E-04	-3.405E-04	2.307E-04
5	3.00000	0.14448	309.087	644.198	198.879	348.292
	(STRAIN)		-5.274E-05	2.690E-04	-1.585E-04	-1.602E-05
5	10.50000	0.14145	227.729	309.808	48.113	93.314
	(STRAIN)		3.738E-04	6.508E-04	-2.324E-04	-8.690E-05
5	18.00000	0.13918	150.033	235.141	10.353	91.937
	(STRAIN)		2.111E-04	4.983E-04	-2.603E-04	1.136E-05
5	25.50000	0.13861	70.824	103.318	-164.928	-149.388
	(STRAIN)		1.130E-04	1.422E-04	-9.920E-05	-9.013E-05
5	33.00000	0.13739	29.512	29.542	-458.155	-416.659
	(STRAIN)		2.238E-04	2.238E-04	-2.151E-04	-2.267E-04
6	0.00000	0.13985	700.000	522.775	62.988	448.753
	(STRAIN)		-2.430E-04	1.984E-04	-2.430E-04	1.252E-04
6	3.00000	0.13456	-0.297	357.714	-1.411	253.154
	(STRAIN)		-1.791E-04	1.646E-04	-1.801E-04	6.322E-05
6	10.50000	0.13532	0.275	56.951	-14.411	44.161
	(STRAIN)		-7.494E-05	1.163E-04	-1.245E-04	4.778E-05
6	18.00000	0.13564	5.354	42.595	-29.224	14.880
	(STRAIN)		-6.651E-06	1.190E-04	-1.234E-04	-3.594E-06
6	25.50000	0.13553	15.121	34.879	-105.984	-46.801
	(STRAIN)		4.112E-05	5.890E-05	-6.787E-05	-6.800E-05
6	33.00000	0.13503	21.268	21.332	-265.526	-62.993
	(STRAIN)		9.082E-05	9.088E-05	-1.673E-04	-1.726E-04
7	0.00000	0.13892	0.000	493.980	50.948	400.304
	(STRAIN)		-2.284E-04	1.970E-04	-2.284E-04	1.070E-04
7	3.00000	0.13382	0.737	336.132	0.528	206.768
	(STRAIN)		-1.587E-04	1.633E-04	-1.589E-04	3.909E-05
7	10.50000	0.13443	4.664	50.718	1.535	25.943
	(STRAIN)		-5.268E-05	1.028E-04	-6.324E-05	1.914E-05
7	18.00000	0.13460	9.918	26.637	-0.980	4.407
	(STRAIN)		7.169E-06	6.359E-05	-2.961E-05	-1.143E-05
7	25.50000	0.13448	16.296	17.444	-94.534	-13.928
	(STRAIN)		3.590E-05	3.694E-05	-6.384E-05	-6.281E-05
7	33.00000	0.13407	19.762	19.779	-233.354	-19.857
	(STRAIN)		7.225E-05	7.227E-05	-1.556E-04	-1.555E-04
8	0.00000	0.13985	700.000	522.775	62.988	448.753
	(STRAIN)		-2.430E-04	1.984E-04	-2.430E-04	1.252E-04
8	3.00000	0.13456	-0.297	357.714	-1.411	253.154
	(STRAIN)		-1.791E-04	1.646E-04	-1.801E-04	6.322E-05
8	10.50000	0.13532	0.275	56.951	-14.411	44.161
	(STRAIN)		-7.494E-05	1.163E-04	-1.245E-04	4.778E-05
8	18.00000	0.13564	5.354	42.595	-29.224	14.880
	(STRAIN)		-6.651E-06	1.190E-04	-1.234E-04	-3.594E-06
8	25.50000	0.13553	15.121	34.879	-105.984	-46.801
	(STRAIN)		4.112E-05	5.890E-05	-6.787E-05	-6.800E-05
8	33.00000	0.13503	21.268	21.332	-265.526	-62.993
	(STRAIN)		9.082E-05	9.088E-05	-1.673E-04	-1.726E-04

9	0.00000	0.14943	0.000	1035.932	369.449	964.546
	(STRAIN)		-3.405E-04	2.993E-04	-3.405E-04	2.307E-04
9	3.00000	0.14448	309.087	644.198	198.879	348.291
	(STRAIN)		-5.274E-05	2.690E-04	-1.585E-04	-1.602E-05
9	10.50000	0.14145	227.729	309.808	48.113	93.314
	(STRAIN)		3.738E-04	6.508E-04	-2.324E-04	-8.690E-05
9	18.00000	0.13918	150.033	235.141	10.353	91.937
	(STRAIN)		2.111E-04	4.983E-04	-2.603E-04	1.136E-05
9	25.50000	0.13861	70.824	103.318	-164.928	-149.388
	(STRAIN)		1.130E-04	1.422E-04	-9.920E-05	-9.013E-05
9	33.00000	0.13739	29.512	29.542	-458.155	-416.659
	(STRAIN)		2.238E-04	2.238E-04	-2.151E-04	-2.267E-04
10	0.00000	0.15835	0.000	2133.195	1027.096	2123.185
	(STRAIN)		-5.638E-04	4.980E-04	-5.638E-04	4.847E-04
10	3.00000	0.15122	686.098	687.084	370.051	425.402
	(STRAIN)		2.238E-04	2.247E-04	-7.963E-05	-8.389E-05
10	10.50000	0.14300	451.460	454.184	106.366	121.559
	(STRAIN)		9.268E-04	9.360E-04	-2.379E-04	-2.384E-04
10	18.00000	0.13792	257.900	271.108	125.966	139.422
	(STRAIN)		4.010E-04	4.456E-04	-4.430E-05	-1.746E-06
10	25.50000	0.13700	102.783	110.041	-166.874	-160.506
	(STRAIN)		1.432E-04	1.497E-04	-9.947E-05	-1.012E-04
10	33.00000	0.13558	30.941	30.976	-521.536	-488.904
	(STRAIN)		2.564E-04	2.564E-04	-2.408E-04	-2.472E-04
11	0.00000	0.14191	0.000	929.236	322.457	869.088
	(STRAIN)		-3.125E-04	2.700E-04	-3.125E-04	2.070E-04
11	3.00000	0.13572	209.838	734.143	146.324	385.150
	(STRAIN)		-1.698E-04	3.335E-04	-2.308E-04	-5.278E-06
11	10.50000	0.13363	195.691	297.984	26.712	87.300
	(STRAIN)		3.000E-04	6.452E-04	-2.703E-04	-7.516E-05
11	18.00000	0.13173	134.022	236.536	-14.157	84.345
	(STRAIN)		1.839E-04	5.299E-04	-3.162E-04	8.909E-06
11	25.50000	0.13122	64.796	109.072	-162.867	-148.352
	(STRAIN)		1.055E-04	1.453E-04	-9.941E-05	-9.915E-05
11	33.00000	0.13007	27.685	27.796	-454.601	-378.194
	(STRAIN)		2.127E-04	2.128E-04	-2.213E-04	-2.537E-04

PERIOD NO. 1 LOAD GROUP NO. 7

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.08958	0.000	211.274	20.721	149.652
	(STRAIN)		-9.206E-05	9.087E-05	-9.206E-05	2.634E-05
1	3.00000	0.08326	0.486	136.172	-3.675	43.636
	(STRAIN)		-5.120E-05	7.906E-05	-5.519E-05	-2.256E-05
1	10.50000	0.08346	1.936	22.683	-16.034	20.348
	(STRAIN)		-1.709E-05	5.293E-05	-7.774E-05	-1.308E-05
1	18.00000	0.08351	4.022	24.478	-19.129	7.435
	(STRAIN)		2.389E-06	7.143E-05	-7.575E-05	-8.801E-06
1	25.50000	0.08349	6.490	28.690	-34.567	-9.219
	(STRAIN)		9.364E-06	2.934E-05	-2.759E-05	-3.202E-05
1	33.00000	0.08338	7.828	31.495	-92.026	7.145
	(STRAIN)		1.950E-05	4.080E-05	-7.037E-05	-8.179E-05
2	0.00000	0.10297	0.000	328.969	45.365	272.075
	(STRAIN)		-1.461E-04	1.262E-04	-1.461E-04	6.176E-05
2	3.00000	0.09710	-0.620	218.525	-3.492	147.037
	(STRAIN)		-1.068E-04	1.036E-04	-1.096E-04	2.073E-05

2	10.50000	0.09759	-2.117	47.641	-25.441	31.279
	(STRAIN)		-5.394E-05	1.140E-04	-1.327E-04	2.594E-05
2	18.00000	0.09785	0.887	47.156	-40.960	10.787
	(STRAIN)		-1.187E-05	1.443E-04	-1.531E-04	-2.160E-06
2	25.50000	0.09781	8.107	43.082	-65.472	-48.237
	(STRAIN)		2.378E-05	5.525E-05	-4.244E-05	-4.996E-05
2	33.00000	0.09750	12.752	13.320	-174.075	-37.966
	(STRAIN)		5.784E-05	5.836E-05	-1.103E-04	-1.316E-04
3	0.00000	0.12160	0.000	751.676	272.589	683.203
	(STRAIN)		-2.392E-04	2.208E-04	-2.392E-04	1.517E-04
3	3.00000	0.11730	229.792	465.100	134.962	246.129
	(STRAIN)		-2.762E-05	1.983E-04	-1.187E-04	-1.757E-05
3	10.50000	0.11501	168.924	235.928	25.740	68.525
	(STRAIN)		2.812E-04	5.073E-04	-2.020E-04	-6.353E-05
3	18.00000	0.11331	110.895	182.366	-1.068	68.343
	(STRAIN)		1.558E-04	3.971E-04	-2.220E-04	6.600E-06
3	25.50000	0.11290	51.768	82.661	-116.351	-110.429
	(STRAIN)		8.022E-05	1.080E-04	-7.109E-05	-7.418E-05
3	33.00000	0.11204	20.961	21.048	-340.778	-282.520
	(STRAIN)		1.594E-04	1.595E-04	-1.662E-04	-1.893E-04
4	0.00000	0.13350	0.000	1587.979	763.000	1561.529
	(STRAIN)		-4.152E-04	3.768E-04	-4.152E-04	3.492E-04
4	3.00000	0.12811	510.110	510.841	258.837	318.375
	(STRAIN)		1.705E-04	1.712E-04	-7.068E-05	-7.387E-05
4	10.50000	0.12199	335.422	337.440	77.034	91.168
	(STRAIN)		6.896E-04	6.964E-04	-1.824E-04	-1.831E-04
4	18.00000	0.11821	191.643	201.470	94.133	103.550
	(STRAIN)		2.975E-04	3.307E-04	-3.156E-05	-1.473E-06
4	25.50000	0.11753	76.445	81.868	-121.649	-113.218
	(STRAIN)		1.045E-04	1.094E-04	-7.378E-05	-7.378E-05
4	33.00000	0.11650	23.104	23.133	-376.510	-359.270
	(STRAIN)		1.871E-04	1.871E-04	-1.726E-04	-1.797E-04
5	0.00000	0.12775	0.000	774.325	274.465	698.323
	(STRAIN)		-2.490E-04	2.309E-04	-2.490E-04	1.579E-04
5	3.00000	0.12398	230.017	466.000	143.565	261.423
	(STRAIN)		-3.467E-05	1.919E-04	-1.177E-04	-5.480E-06
5	10.50000	0.12172	169.231	229.771	34.428	69.885
	(STRAIN)		2.788E-04	4.832E-04	-1.761E-04	-6.101E-05
5	18.00000	0.12003	111.543	174.950	7.578	68.826
	(STRAIN)		1.565E-04	3.705E-04	-1.944E-04	1.009E-05
5	25.50000	0.11961	52.749	77.681	-119.626	-105.658
	(STRAIN)		8.191E-05	1.044E-04	-7.322E-05	-6.685E-05
5	33.00000	0.11873	22.095	22.116	-337.942	-295.877
	(STRAIN)		1.626E-04	1.626E-04	-1.614E-04	-1.671E-04
6	0.00000	0.12797	520.000	410.816	48.724	347.213
	(STRAIN)		-1.899E-04	1.577E-04	-1.899E-04	9.566E-05
6	3.00000	0.11943	-0.023	271.560	-0.912	167.651
	(STRAIN)		-1.286E-04	1.321E-04	-1.294E-04	3.174E-05
6	10.50000	0.11997	0.312	43.162	-10.948	31.133
	(STRAIN)		-5.438E-05	9.024E-05	-9.238E-05	2.772E-05
6	18.00000	0.12020	4.191	31.863	-21.458	11.587
	(STRAIN)		-5.100E-06	8.830E-05	-9.166E-05	-3.272E-06
6	25.50000	0.12014	11.559	28.338	-78.095	-26.896
	(STRAIN)		2.829E-05	4.339E-05	-5.240E-05	-5.195E-05
6	33.00000	0.11979	16.195	16.227	-198.335	-26.726
	(STRAIN)		6.330E-05	6.333E-05	-1.298E-04	-1.324E-04
7	0.00000	0.12953	0.000	395.707	40.225	314.838
	(STRAIN)		-1.816E-04	1.597E-04	-1.816E-04	8.198E-05
7	3.00000	0.12130	0.519	259.155	0.368	131.787

	(STRAIN)		-1.143E-04	1.340E-04	-1.144E-04	1.153E-05
7	10.50000	0.12174	3.636	39.609	1.390	16.376
	(STRAIN)		-3.793E-05	8.348E-05	-4.551E-05	4.883E-06
7	18.00000	0.12186	7.725	20.602	-0.212	3.309
	(STRAIN)		5.336E-06	4.879E-05	-2.145E-05	-9.773E-06
7	25.50000	0.12179	12.648	13.547	-70.438	1.213
	(STRAIN)		2.437E-05	2.518E-05	-5.040E-05	-4.968E-05
7	33.00000	0.12150	15.331	15.439	-177.069	9.104
	(STRAIN)		4.939E-05	4.948E-05	-1.238E-04	-1.239E-04
8	0.00000	0.13286	520.000	425.648	49.786	356.202
	(STRAIN)		-1.962E-04	1.647E-04	-1.962E-04	9.600E-05
8	3.00000	0.12477	-0.416	280.762	-1.422	166.138
	(STRAIN)		-1.311E-04	1.389E-04	-1.320E-04	2.710E-05
8	10.50000	0.12532	0.478	43.955	-11.903	32.447
	(STRAIN)		-5.482E-05	9.191E-05	-9.661E-05	2.455E-05
8	18.00000	0.12555	4.548	33.170	-22.525	12.246
	(STRAIN)		-4.680E-06	9.192E-05	-9.605E-05	-4.383E-06
8	25.50000	0.12549	12.099	31.229	-80.361	-26.085
	(STRAIN)		2.844E-05	4.566E-05	-5.477E-05	-5.535E-05
8	33.00000	0.12514	16.827	17.004	-204.696	-19.473
	(STRAIN)		6.348E-05	6.364E-05	-1.359E-04	-1.408E-04
9	0.00000	0.14471	0.000	825.646	278.866	752.494
	(STRAIN)		-2.770E-04	2.479E-04	-2.770E-04	1.771E-04
9	3.00000	0.13742	229.607	466.145	140.917	286.916
	(STRAIN)		-4.181E-05	1.853E-04	-1.270E-04	1.244E-05
9	10.50000	0.13519	169.686	232.340	31.668	73.915
	(STRAIN)		2.770E-04	4.885E-04	-1.888E-04	-4.966E-05
9	18.00000	0.13350	112.524	178.568	5.165	70.116
	(STRAIN)		1.577E-04	3.806E-04	-2.047E-04	1.093E-05
9	25.50000	0.13308	54.228	81.783	-122.669	-105.114
	(STRAIN)		8.287E-05	1.077E-04	-7.634E-05	-7.496E-05
9	33.00000	0.13219	23.821	23.862	-355.382	-280.406
	(STRAIN)		1.642E-04	1.643E-04	-1.771E-04	-1.865E-04
10	0.00000	0.15347	0.000	1649.124	768.218	1622.555
	(STRAIN)		-4.475E-04	3.981E-04	-4.475E-04	3.726E-04
10	3.00000	0.14482	509.843	510.759	261.099	349.366
	(STRAIN)		1.606E-04	1.614E-04	-7.824E-05	-7.824E-05
10	10.50000	0.13874	336.017	338.121	77.237	95.788
	(STRAIN)		6.868E-04	6.939E-04	-1.866E-04	-1.866E-04
10	18.00000	0.13496	192.923	202.979	95.644	103.807
	(STRAIN)		2.990E-04	3.329E-04	-2.933E-05	-1.776E-06
10	25.50000	0.13428	78.376	83.603	-129.043	-107.142
	(STRAIN)		1.061E-04	1.108E-04	-8.054E-05	-7.583E-05
10	33.00000	0.13323	25.352	25.373	-386.436	-355.323
	(STRAIN)		1.900E-04	1.900E-04	-1.806E-04	-1.806E-04
11	0.00000	0.14382	0.000	768.913	245.940	701.299
	(STRAIN)		-2.673E-04	2.348E-04	-2.673E-04	1.691E-04
11	3.00000	0.13617	156.133	535.536	110.867	330.949
	(STRAIN)		-1.368E-04	2.274E-04	-1.803E-04	3.037E-05
11	10.50000	0.13465	146.194	216.579	25.337	71.115
	(STRAIN)		2.195E-04	4.571E-04	-1.884E-04	-3.811E-05
11	18.00000	0.13325	101.264	171.423	-3.743	65.026
	(STRAIN)		1.381E-04	3.749E-04	-2.163E-04	1.201E-05
11	25.50000	0.13287	50.702	80.896	-121.424	-104.064
	(STRAIN)		7.937E-05	1.065E-04	-7.554E-05	-7.442E-05
11	33.00000	0.13200	23.560	23.605	-349.734	-268.624
	(STRAIN)		1.600E-04	1.600E-04	-1.760E-04	-1.859E-04

PERIOD NO. 1 LOAD GROUP NO. 8

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.10337	0.000	243.778	23.909	172.675
	(STRAIN)		-1.062E-04	1.049E-04	-1.062E-04	3.039E-05
1	3.00000	0.09607	0.561	157.122	-4.240	50.350
	(STRAIN)		-5.908E-05	9.122E-05	-6.368E-05	-2.603E-05
1	10.50000	0.09630	2.234	26.173	-18.501	23.478
	(STRAIN)		-1.972E-05	6.108E-05	-8.970E-05	-1.510E-05
1	18.00000	0.09636	4.641	28.244	-22.072	8.579
	(STRAIN)		2.757E-06	8.242E-05	-8.740E-05	-1.016E-05
1	25.50000	0.09633	7.489	33.104	-39.885	-10.638
	(STRAIN)		1.080E-05	3.386E-05	-3.183E-05	-3.695E-05
1	33.00000	0.09621	9.032	36.340	-106.183	8.245
	(STRAIN)		2.250E-05	4.708E-05	-8.119E-05	-9.438E-05
2	0.00000	0.11881	0.000	379.580	52.344	313.933
	(STRAIN)		-1.685E-04	1.456E-04	-1.685E-04	7.126E-05
2	3.00000	0.11204	-0.715	252.144	-4.029	169.658
	(STRAIN)		-1.232E-04	1.195E-04	-1.264E-04	2.392E-05
2	10.50000	0.11260	-2.442	54.971	-29.355	36.091
	(STRAIN)		-6.224E-05	1.315E-04	-1.531E-04	2.993E-05
2	18.00000	0.11291	1.024	54.410	-47.262	12.447
	(STRAIN)		-1.369E-05	1.665E-04	-1.767E-04	-2.492E-06
2	25.50000	0.11286	9.354	49.709	-75.544	-55.658
	(STRAIN)		2.743E-05	6.375E-05	-4.897E-05	-5.764E-05
2	33.00000	0.11250	14.713	15.370	-200.856	-43.807
	(STRAIN)		6.674E-05	6.733E-05	-1.273E-04	-1.519E-04
3	0.00000	0.14031	0.000	867.320	314.526	788.310
	(STRAIN)		-2.760E-04	2.547E-04	-2.760E-04	1.751E-04
3	3.00000	0.13534	265.145	536.653	155.725	283.994
	(STRAIN)		-3.186E-05	2.288E-04	-1.369E-04	-2.027E-05
3	10.50000	0.13270	194.912	272.224	29.700	79.068
	(STRAIN)		3.245E-04	5.854E-04	-2.331E-04	-7.330E-05
3	18.00000	0.13074	127.955	210.423	-1.233	78.857
	(STRAIN)		1.798E-04	4.581E-04	-2.562E-04	7.615E-06
3	25.50000	0.13027	59.733	95.378	-134.251	-127.418
	(STRAIN)		9.256E-05	1.246E-04	-8.202E-05	-8.559E-05
3	33.00000	0.12927	24.186	24.286	-393.205	-325.985
	(STRAIN)		1.839E-04	1.840E-04	-1.917E-04	-2.184E-04
4	0.00000	0.15403	0.000	1832.283	880.384	1801.764
	(STRAIN)		-4.791E-04	4.348E-04	-4.791E-04	4.030E-04
4	3.00000	0.14782	588.589	589.433	298.659	367.355
	(STRAIN)		1.968E-04	1.976E-04	-8.155E-05	-8.524E-05
4	10.50000	0.14075	387.025	389.354	88.885	105.194
	(STRAIN)		7.957E-04	8.036E-04	-2.105E-04	-2.113E-04
4	18.00000	0.13639	221.126	232.465	108.616	119.481
	(STRAIN)		3.433E-04	3.816E-04	-3.641E-05	-1.699E-06
4	25.50000	0.13562	88.206	94.463	-140.364	-130.636
	(STRAIN)		1.206E-04	1.262E-04	-8.514E-05	-8.513E-05
4	33.00000	0.13442	26.658	26.692	-434.436	-414.541
	(STRAIN)		2.159E-04	2.159E-04	-1.991E-04	-2.074E-04
5	0.00000	0.14741	0.000	893.452	316.690	805.757
	(STRAIN)		-2.873E-04	2.664E-04	-2.873E-04	1.822E-04
5	3.00000	0.14306	265.404	537.692	165.652	301.642
	(STRAIN)		-4.001E-05	2.214E-04	-1.358E-04	-6.323E-06
5	10.50000	0.14045	195.267	265.120	39.725	80.637
	(STRAIN)		3.217E-04	5.575E-04	-2.032E-04	-7.039E-05

5	18.00000	0.13850	128.703	201.865	8.744	79.414
	(STRAIN)		1.806E-04	4.275E-04	-2.243E-04	1.165E-05
5	25.50000	0.13802	60.865	89.632	-138.030	-121.913
	(STRAIN)		9.452E-05	1.204E-04	-8.449E-05	-7.714E-05
5	33.00000	0.13700	25.495	25.519	-389.934	-341.397
	(STRAIN)		1.876E-04	1.877E-04	-1.863E-04	-1.928E-04
6	0.00000	0.14765	600.000	474.019	56.220	400.631
	(STRAIN)		-2.191E-04	1.820E-04	-2.191E-04	1.104E-04
6	3.00000	0.13780	-0.026	313.339	-1.052	193.444
	(STRAIN)		-1.484E-04	1.525E-04	-1.494E-04	3.662E-05
6	10.50000	0.13843	0.360	49.802	-12.632	35.923
	(STRAIN)		-6.274E-05	1.041E-04	-1.066E-04	3.198E-05
6	18.00000	0.13870	4.836	36.766	-24.759	13.370
	(STRAIN)		-5.884E-06	1.019E-04	-1.058E-04	-3.776E-06
6	25.50000	0.13862	13.337	32.697	-90.110	-31.034
	(STRAIN)		3.264E-05	5.007E-05	-6.046E-05	-5.994E-05
6	33.00000	0.13822	18.687	18.723	-228.847	-30.837
	(STRAIN)		7.304E-05	7.308E-05	-1.497E-04	-1.528E-04
7	0.00000	0.14945	0.000	456.585	46.414	363.274
	(STRAIN)		-2.095E-04	1.842E-04	-2.095E-04	9.459E-05
7	3.00000	0.13997	0.599	299.025	0.425	152.062
	(STRAIN)		-1.319E-04	1.546E-04	-1.320E-04	1.330E-05
7	10.50000	0.14047	4.196	45.702	1.604	18.895
	(STRAIN)		-4.377E-05	9.632E-05	-5.251E-05	5.634E-06
7	18.00000	0.14061	8.914	23.771	-0.244	3.818
	(STRAIN)		6.157E-06	5.630E-05	-2.475E-05	-1.128E-05
7	25.50000	0.14052	14.594	15.631	-81.275	1.399
	(STRAIN)		2.812E-05	2.906E-05	-5.816E-05	-5.733E-05
7	33.00000	0.14020	17.690	17.815	-204.310	10.504
	(STRAIN)		5.699E-05	5.710E-05	-1.428E-04	-1.429E-04
8	0.00000	0.15330	600.000	491.132	57.446	411.002
	(STRAIN)		-2.263E-04	1.900E-04	-2.263E-04	1.108E-04
8	3.00000	0.14397	-0.480	323.957	-1.641	191.698
	(STRAIN)		-1.512E-04	1.602E-04	-1.524E-04	3.127E-05
8	10.50000	0.14460	0.552	50.717	-13.734	37.439
	(STRAIN)		-6.326E-05	1.061E-04	-1.115E-04	2.832E-05
8	18.00000	0.14487	5.248	38.274	-25.991	14.131
	(STRAIN)		-5.400E-06	1.061E-04	-1.108E-04	-5.058E-06
8	25.50000	0.14479	13.960	36.033	-92.724	-30.098
	(STRAIN)		3.281E-05	5.268E-05	-6.320E-05	-6.386E-05
8	33.00000	0.14439	19.415	19.619	-236.187	-22.469
	(STRAIN)		7.325E-05	7.343E-05	-1.568E-04	-1.625E-04
9	0.00000	0.16698	0.000	952.667	321.768	868.264
	(STRAIN)		-3.196E-04	2.860E-04	-3.196E-04	2.043E-04
9	3.00000	0.15857	264.931	537.860	162.596	331.058
	(STRAIN)		-4.824E-05	2.138E-04	-1.465E-04	1.435E-05
9	10.50000	0.15599	195.792	268.085	36.540	85.286
	(STRAIN)		3.196E-04	5.636E-04	-2.179E-04	-5.730E-05
9	18.00000	0.15404	129.836	206.040	5.959	80.903
	(STRAIN)		1.819E-04	4.391E-04	-2.362E-04	1.262E-05
9	25.50000	0.15355	62.571	94.365	-141.541	-121.286
	(STRAIN)		9.562E-05	1.242E-04	-8.808E-05	-8.649E-05
9	33.00000	0.15252	27.485	27.533	-410.056	-323.545
	(STRAIN)		1.895E-04	1.895E-04	-2.043E-04	-2.152E-04
10	0.00000	0.17708	0.000	1902.814	886.405	1872.200
	(STRAIN)		-5.164E-04	4.594E-04	-5.164E-04	4.300E-04
10	3.00000	0.16710	588.280	589.337	301.268	403.114
	(STRAIN)		1.853E-04	1.863E-04	-9.027E-05	-9.027E-05
10	10.50000	0.16008	387.712	390.140	89.120	110.524

	(STRAIN)		7.925E-04	8.007E-04	-2.153E-04	-2.153E-04
10	18.00000	0.15572	222.603	234.206	110.358	119.778
	(STRAIN)		3.450E-04	3.841E-04	-3.384E-05	-2.049E-06
10	25.50000	0.15494	90.434	96.465	-148.896	-123.626
	(STRAIN)		1.225E-04	1.279E-04	-9.293E-05	-8.750E-05
10	33.00000	0.15373	29.253	29.277	-445.888	-409.987
	(STRAIN)		2.192E-04	2.192E-04	-2.084E-04	-2.084E-04
11	0.00000	0.16595	0.000	887.208	283.777	809.190
	(STRAIN)		-3.084E-04	2.709E-04	-3.084E-04	1.951E-04
11	3.00000	0.15712	180.153	617.925	127.924	381.865
	(STRAIN)		-1.578E-04	2.624E-04	-2.080E-04	3.504E-05
11	10.50000	0.15537	168.685	249.899	29.235	82.056
	(STRAIN)		2.533E-04	5.274E-04	-2.174E-04	-4.398E-05
11	18.00000	0.15375	116.842	197.795	-4.319	75.030
	(STRAIN)		1.594E-04	4.326E-04	-2.495E-04	1.386E-05
11	25.50000	0.15331	58.502	93.342	-140.105	-120.074
	(STRAIN)		9.158E-05	1.229E-04	-8.717E-05	-8.587E-05
11	33.00000	0.15231	27.185	27.237	-403.539	-309.950
	(STRAIN)		1.846E-04	1.846E-04	-2.031E-04	-2.145E-04

PERIOD NO. 1 LOAD GROUP NO. 9

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	0.00000	0.11285	0.000	163.215	14.603	120.479
	(STRAIN)		-7.348E-05	6.919E-05	-7.348E-05	1.198E-05
1	3.00000	0.10327	0.537	71.172	-19.687	2.924
	(STRAIN)		-1.544E-05	5.236E-05	-3.486E-05	-5.973E-05
1	10.50000	0.10333	1.772	14.405	-10.659	8.548
	(STRAIN)		-4.777E-06	3.786E-05	-4.673E-05	-3.181E-05
1	18.00000	0.10334	3.579	15.277	-9.569	5.399
	(STRAIN)		2.361E-06	4.184E-05	-4.201E-05	-6.326E-06
1	25.50000	0.10335	5.392	34.213	-8.852	2.076
	(STRAIN)		-1.549E-06	2.439E-05	-1.437E-05	-2.258E-05
1	33.00000	0.10336	6.308	61.163	-32.406	6.022
	(STRAIN)		-2.438E-06	4.693E-05	-3.728E-05	-5.754E-05
2	0.00000	0.12193	0.000	213.112	20.343	169.283
	(STRAIN)		-9.861E-05	8.645E-05	-9.861E-05	2.805E-05
2	3.00000	0.11321	0.738	106.532	-4.262	26.967
	(STRAIN)		-3.720E-05	6.436E-05	-4.200E-05	-4.554E-05
2	10.50000	0.11335	2.373	22.810	-14.119	14.094
	(STRAIN)		-1.193E-05	5.705E-05	-6.759E-05	-2.422E-05
2	18.00000	0.11339	4.819	23.647	-15.996	6.986
	(STRAIN)		3.455E-06	6.700E-05	-6.679E-05	-6.551E-06
2	25.50000	0.11338	7.357	32.876	-18.818	-2.565
	(STRAIN)		3.939E-06	2.691E-05	-1.962E-05	-2.804E-05
2	33.00000	0.11333	8.648	45.108	-55.820	8.051
	(STRAIN)		8.404E-06	4.122E-05	-4.962E-05	-7.039E-05
3	0.00000	0.13193	0.000	285.872	31.365	243.455
	(STRAIN)		-1.344E-04	1.100E-04	-1.344E-04	5.374E-05
3	3.00000	0.12397	0.638	159.939	-2.986	90.667
	(STRAIN)		-7.202E-05	8.091E-05	-7.550E-05	-1.817E-05
3	10.50000	0.12425	2.169	37.344	-20.155	20.865
	(STRAIN)		-2.598E-05	9.274E-05	-1.013E-04	-8.437E-06
3	18.00000	0.12435	5.145	36.107	-27.194	9.091
	(STRAIN)		1.612E-06	1.061E-04	-1.075E-04	-5.580E-06
3	25.50000	0.12432	9.340	35.610	-35.612	-18.086

	(STRAIN)		1.263E-05	3.627E-05	-2.783E-05	-3.513E-05
3	33.00000	0.12416	11.823	17.500	-95.637	6.467
	(STRAIN)		2.736E-05	3.247E-05	-6.935E-05	-8.841E-05
4	0.00000	0.14272	0.000	390.535	54.985	357.958
	(STRAIN)		-1.829E-04	1.392E-04	-1.829E-04	9.344E-05
4	3.00000	0.13529	-0.376	240.504	-3.286	183.672
	(STRAIN)		-1.238E-04	1.074E-04	-1.266E-04	2.414E-05
4	10.50000	0.13587	-1.864	65.382	-28.686	29.496
	(STRAIN)		-6.421E-05	1.627E-04	-1.547E-04	2.256E-05
4	18.00000	0.13617	2.656	61.459	-49.749	12.727
	(STRAIN)		-1.242E-05	1.860E-04	-1.893E-04	6.318E-06
4	25.50000	0.13613	11.329	52.525	-69.684	-54.846
	(STRAIN)		2.700E-05	6.407E-05	-4.591E-05	-4.623E-05
4	33.00000	0.13578	16.494	17.044	-174.156	-62.803
	(STRAIN)		6.616E-05	6.665E-05	-1.054E-04	-1.205E-04
5	0.00000	0.15638	0.000	635.624	169.975	610.742
	(STRAIN)		-2.523E-04	1.947E-04	-2.523E-04	1.601E-04
5	3.00000	0.14866	17.447	568.277	11.458	318.756
	(STRAIN)		-2.468E-04	2.820E-04	-2.526E-04	3.705E-05
5	10.50000	0.14912	67.513	201.473	-11.588	50.216
	(STRAIN)		1.777E-05	4.699E-04	-2.492E-04	-4.429E-05
5	18.00000	0.14872	65.043	178.230	-58.887	48.804
	(STRAIN)		7.239E-05	4.544E-04	-3.459E-04	1.595E-05
5	25.50000	0.14845	40.890	99.310	-140.025	-107.093
	(STRAIN)		7.129E-05	1.239E-04	-9.153E-05	-6.994E-05
5	33.00000	0.14762	23.892	24.074	-335.322	-258.972
	(STRAIN)		1.546E-04	1.547E-04	-1.687E-04	-1.811E-04
6	0.00000	0.17971	700.000	2137.711	1027.116	2102.010
	(STRAIN)		-5.589E-04	5.073E-04	-5.589E-04	4.701E-04
6	3.00000	0.17245	686.687	687.671	348.435	428.580
	(STRAIN)		2.296E-04	2.305E-04	-9.514E-05	-9.944E-05
6	10.50000	0.16421	451.529	454.247	103.700	122.726
	(STRAIN)		9.283E-04	9.375E-04	-2.456E-04	-2.465E-04
6	18.00000	0.15912	257.981	271.209	126.718	139.395
	(STRAIN)		4.005E-04	4.452E-04	-4.248E-05	-1.983E-06
6	25.50000	0.15822	102.907	110.207	-163.758	-152.408
	(STRAIN)		1.407E-04	1.472E-04	-9.933E-05	-9.932E-05
6	33.00000	0.15683	31.101	31.141	-506.841	-483.632
	(STRAIN)		2.518E-04	2.519E-04	-2.323E-04	-2.420E-04
7	0.00000	0.17039	0.000	900.147	295.786	895.301
	(STRAIN)		-3.295E-04	2.507E-04	-3.295E-04	2.461E-04
7	3.00000	0.16215	34.103	933.249	34.072	444.673
	(STRAIN)		-3.814E-04	4.817E-04	-3.815E-04	1.267E-05
7	10.50000	0.16263	133.020	219.720	71.211	133.460
	(STRAIN)		7.760E-05	3.702E-04	-1.310E-04	-1.295E-04
7	18.00000	0.16167	124.518	125.425	85.146	103.876
	(STRAIN)		1.451E-04	1.482E-04	1.223E-05	1.529E-05
7	25.50000	0.16119	70.205	70.330	-166.763	-145.796
	(STRAIN)		1.197E-04	1.198E-04	-9.357E-05	-9.345E-05
7	33.00000	0.15981	32.418	32.430	-524.383	-495.316
	(STRAIN)		2.595E-04	2.596E-04	-2.416E-04	-2.416E-04
8	0.00000	0.17971	700.000	2137.671	1027.115	2102.051
	(STRAIN)		-5.589E-04	5.072E-04	-5.589E-04	4.701E-04
8	3.00000	0.17245	686.687	687.671	348.435	428.580
	(STRAIN)		2.296E-04	2.305E-04	-9.514E-05	-9.944E-05
8	10.50000	0.16421	451.529	454.247	103.700	122.726
	(STRAIN)		9.283E-04	9.375E-04	-2.456E-04	-2.465E-04
8	18.00000	0.15912	257.981	271.209	126.718	139.395
	(STRAIN)		4.005E-04	4.452E-04	-4.248E-05	-1.983E-06

8	25.50000	0.15822	102.907	110.207	-163.758	-152.409
	(STRAIN)		1.407E-04	1.472E-04	-9.933E-05	-9.932E-05
8	33.00000	0.15683	31.101	31.141	-506.841	-483.632
	(STRAIN)		2.518E-04	2.519E-04	-2.323E-04	-2.420E-04
9	0.00000	0.15638	0.000	635.624	169.975	610.742
	(STRAIN)		-2.523E-04	1.947E-04	-2.523E-04	1.601E-04
9	3.00000	0.14866	17.447	568.277	11.458	318.756
	(STRAIN)		-2.468E-04	2.820E-04	-2.526E-04	3.705E-05
9	10.50000	0.14912	67.513	201.473	-11.588	50.216
	(STRAIN)		1.777E-05	4.699E-04	-2.492E-04	-4.429E-05
9	18.00000	0.14872	65.043	178.230	-58.887	48.804
	(STRAIN)		7.239E-05	4.544E-04	-3.459E-04	1.595E-05
9	25.50000	0.14845	40.890	99.310	-140.025	-107.093
	(STRAIN)		7.129E-05	1.239E-04	-9.153E-05	-6.994E-05
9	33.00000	0.14762	23.892	24.074	-335.322	-258.972
	(STRAIN)		1.546E-04	1.547E-04	-1.687E-04	-1.811E-04
10	0.00000	0.14272	0.000	390.535	54.985	357.958
	(STRAIN)		-1.829E-04	1.392E-04	-1.829E-04	9.344E-05
10	3.00000	0.13529	-0.376	240.504	-3.286	183.672
	(STRAIN)		-1.238E-04	1.074E-04	-1.266E-04	2.414E-05
10	10.50000	0.13587	-1.864	65.382	-28.686	29.496
	(STRAIN)		-6.421E-05	1.627E-04	-1.547E-04	2.256E-05
10	18.00000	0.13617	2.656	61.459	-49.749	12.727
	(STRAIN)		-1.242E-05	1.860E-04	-1.893E-04	6.318E-06
10	25.50000	0.13613	11.329	52.525	-69.684	-54.846
	(STRAIN)		2.700E-05	6.407E-05	-4.591E-05	-4.623E-05
10	33.00000	0.13578	16.494	17.044	-174.156	-62.803
	(STRAIN)		6.616E-05	6.665E-05	-1.054E-04	-1.205E-04
11	0.00000	0.13193	0.000	285.872	31.365	243.455
	(STRAIN)		-1.344E-04	1.100E-04	-1.344E-04	5.374E-05
11	3.00000	0.12397	0.638	159.939	-2.986	90.667
	(STRAIN)		-7.202E-05	8.091E-05	-7.550E-05	-1.817E-05
11	10.50000	0.12425	2.169	37.344	-20.155	20.865
	(STRAIN)		-2.598E-05	9.274E-05	-1.013E-04	-8.437E-06
11	18.00000	0.12435	5.145	36.107	-27.194	9.091
	(STRAIN)		1.612E-06	1.061E-04	-1.075E-04	-5.580E-06
11	25.50000	0.12432	9.340	35.610	-35.612	-18.086
	(STRAIN)		1.263E-05	3.627E-05	-2.783E-05	-3.513E-05
11	33.00000	0.12416	11.823	17.500	-95.637	6.467
	(STRAIN)		2.736E-05	3.247E-05	-6.935E-05	-8.841E-05

Anexo C1 – Deformações Transversais(mm) – YY

Eixo Simples uma roda 520KPa						
	Base			Sub-Base		
Coordenada	CS	GR12	GR15	CS	GR12	GR15
-18.0000	0.0015	0.0022	0.0004	0.0085	0.0068	0.0068
-15.0000	0.0010	0.0077	0.0121	0.0100	0.0087	0.0084
-12.0000	0.0070	0.0283	0.0347	0.0115	0.0108	0.0101
-9.0000	0.0161	0.0568	0.0652	0.0131	0.0131	0.0119
-6.0000	0.0218	0.0779	0.0881	0.0145	0.0151	0.0134
-3.0000	0.0245	0.0891	0.1006	0.0154	0.0164	0.0145
0.0000	0.0252	0.0926	0.1045	0.0158	0.0169	0.0148
3.0000	0.0245	0.0891	0.1006	0.0154	0.0164	0.0145
6.0000	0.0218	0.0779	0.0881	0.0145	0.0151	0.0134
9.0000	0.0161	0.0568	0.0652	0.0131	0.0131	0.0119
12.0000	0.0070	0.0283	0.0347	0.0115	0.0108	0.0101
15.0000	0.0010	0.0077	0.0121	0.0100	0.0087	0.0084
18.0000	0.0015	0.0022	0.0004	0.0085	0.0068	0.0068

Eixo Simples uma roda 600KPa						
	Base			Sub-Base		
Coordenada	CS	GR12	GR15	CS	GR12	GR15
-18.0000	0.0017	0.0025	0.0005	0.0098	0.0079	0.0079
-15.0000	0.0012	0.0090	0.0139	0.0115	0.0100	0.0097
-12.0000	0.0081	0.0327	0.0400	0.0134	0.0125	0.0117
-9.0000	0.0185	0.0656	0.0753	0.0152	0.0151	0.0138
-6.0000	0.0251	0.0898	0.1017	0.0168	0.0174	0.0155
-3.0000	0.0283	0.1029	0.1161	0.0178	0.0189	0.0167
0.0000	0.0291	0.1069	0.1206	0.0182	0.0195	0.0171
3.0000	0.0283	0.1029	0.1161	0.0178	0.0189	0.0167
6.0000	0.0251	0.0898	0.1017	0.0168	0.0174	0.0155
9.0000	0.0185	0.0656	0.0753	0.0152	0.0151	0.0138
12.0000	0.0081	0.0327	0.0400	0.0134	0.0125	0.0117
15.0000	0.0012	0.0090	0.0139	0.0115	0.0100	0.0097
18.0000	0.0017	0.0025	0.0005	0.0098	0.0079	0.0079

Eixo Simples uma roda 700KPa						
	Base			Sub-Base		
Coordenada	CS	GR12	GR15	CS	GR12	GR15
-18.0000	0.0019	0.0029	0.0006	0.0114	0.0091	0.0092
-15.0000	0.0014	0.0105	0.0163	0.0134	0.0116	0.0113
-12.0000	0.0094	0.0380	0.0467	0.0156	0.0146	0.0137
-9.0000	0.0216	0.0764	0.0879	0.0177	0.0177	0.0160
-6.0000	0.0293	0.1049	0.1186	0.0196	0.0203	0.0181

Deformações (mm)

-3.0000	0.0329	0.1200	0.1355	0.0208	0.0221	0.0194
0.0000	0.0340	0.1247	0.1408	0.0212	0.0228	0.0199
3.0000	0.0329	0.1200	0.1355	0.0208	0.0221	0.0194
6.0000	0.0293	0.1049	0.1186	0.0196	0.0203	0.0181
9.0000	0.0216	0.0764	0.0879	0.0177	0.0177	0.0160
12.0000	0.0094	0.0380	0.0467	0.0156	0.0146	0.0137
15.0000	0.0014	0.0105	0.0163	0.0134	0.0116	0.0113
18.0000	0.0019	0.0029	0.0006	0.0114	0.0091	0.0092

Anexo C2 – Deformações Transversais (mm) – YY

Eixo Simples rodado duplo 520KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0007	0.0005	0.0008	0.0008	0.0002	0.0004
-70.0000	0.0010	0.0012	0.0015	0.0016	0.0007	0.0010
-52.5000	0.0018	0.0024	0.0030	0.0031	0.0017	0.0019
-35.0000	0.0031	0.0056	0.0066	0.0053	0.0032	0.0033
-17.5000	0.0025	0.0029	0.0004	0.0110	0.0084	0.0085
0.0000	0.0230	0.0880	0.0990	0.0198	0.0194	0.0174
17.5000	0.0023	0.0021	0.0036	0.0174	0.0141	0.0141
35.0000	0.0230	0.0880	0.0990	0.0198	0.0194	0.0174
52.5000	0.0025	0.0029	0.0010	0.0110	0.0084	0.0088
70.0000	0.0031	0.0056	0.0066	0.0053	0.0032	0.0033
87.5000	0.0018	0.0024	0.0030	0.0031	0.0017	0.0019
105.0000	0.0010	0.0012	0.0015	0.0016	0.0007	0.0010

Eixo Simples rodado duplo 600KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5	0.0007	0.0006	0.0009	0.0009	0.0003	0.0004
-70.0000	0.0013	0.0014	0.0017	0.0020	0.0009	0.0011
-52.5000	0.0021	0.0028	0.0034	0.0035	0.0020	0.0021
-35.0000	0.0035	0.0065	0.0077	0.0061	0.0036	0.0039
-17.5000	0.0029	0.0034	0.0005	0.0127	0.0097	0.0098
0.0000	0.0265	0.1015	0.1143	0.0229	0.0224	0.0201
17.5000	0.0027	0.0024	0.0042	0.0201	0.0163	0.0163
35.0000	0.0265	0.1015	0.1143	0.0229	0.0224	0.0201
52.5000	0.0029	0.0034	0.0005	0.0127	0.0097	0.0098
70.0000	0.0035	0.0065	0.0077	0.0061	0.0036	0.0039
87.5000	0.0021	0.0028	0.0034	0.0035	0.0020	0.0021
105.0000	0.0013	0.0014	0.0017	0.0020	0.0009	0.0011

Eixo Simples rodado duplo 700KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0009	0.0007	0.0010	0.0011	0.0002	0.0005
-70.0000	0.0015	0.0016	0.0020	0.0022	0.0011	0.0012
-52.5000	0.0024	0.0033	0.0040	0.0040	0.0023	0.0025
-35.0000	0.0041	0.0076	0.0089	0.0072	0.0042	0.0045
-17.5000	0.0033	0.0040	0.0006	0.0148	0.0114	0.0114
0.0000	0.0309	0.1184	0.1333	0.0266	0.0261	0.0234
17.5000	0.0032	0.0028	0.0049	0.0235	0.0191	0.0190

Deformações (mm)

35.0000	0.0309	0.1184	0.1333	0.0266	0.0261	0.0234
52.5000	0.0033	0.0040	0.0006	0.0148	0.0114	0.0114
70.0000	0.0041	0.0076	0.0089	0.0072	0.0042	0.0045
87.5000	0.0024	0.0033	0.0040	0.0040	0.0023	0.0025
105.0000	0.0015	0.0016	0.0020	0.0022	0.0011	0.0012

Anexo C3 – Deformações Transversais (mm) – YY

Eixo Tandem rodado duplo 520KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0007	0.0004	0.0006	0.0005	0.0001	0.0000
-70.0000	0.0011	0.0011	0.0015	0.0014	0.0005	0.0007
-52.5000	0.0019	0.0023	0.0030	0.0029	0.0014	0.0017
-35.0000	0.0033	0.0056	0.0068	0.0053	0.0029	0.0033
-17.5000	0.0027	0.0030	0.0007	0.0111	0.0083	0.0085
0.0000	0.0227	0.0879	0.0988	0.0200	0.0192	0.0173
17.5000	0.0026	0.0022	0.0034	0.0176	0.0140	0.0141
35.0000	0.0227	0.0879	0.0988	0.0200	0.0192	0.0173
52.5000	0.0027	0.0030	0.0007	0.0111	0.0083	0.0085
70.0000	0.0033	0.0056	0.0068	0.0053	0.0029	0.0033
87.5000	0.0019	0.0023	0.0030	0.0029	0.0014	0.0017
105.0000	0.0011	0.0011	0.0015	0.0014	0.0005	0.0007

Eixo Tandem rodado duplo 600KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5	0.0008	0.0005	0.0008	0.0006	0.0001	0.0001
-70.0000	0.0013	0.0013	0.0017	0.0016	0.0005	0.0008
-52.5000	0.0023	0.0028	0.0034	0.0034	0.0016	0.0019
-35.0000	0.0038	0.0065	0.0078	0.0062	0.0033	0.0037
-17.5000	0.0032	0.0035	0.0007	0.0128	0.0096	0.0097
0.0000	0.0262	0.1014	0.1141	0.0230	0.0221	0.0200
17.5000	0.0031	0.0026	0.0039	0.0204	0.0162	0.0162
35.0000	0.0262	0.1014	0.1141	0.0230	0.0221	0.0200
52.5000	0.0032	0.0035	0.0007	0.0128	0.0096	0.0097
70.0000	0.0038	0.0065	0.0078	0.0062	0.0033	0.0037
87.5000	0.0023	0.0028	0.0034	0.0034	0.0016	0.0019
105.0000	0.0013	0.0013	0.0017	0.0016	0.0005	0.0008

Eixo Tandem rodado duplo 700KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0009	0.0005	0.0009	0.0007	0.0002	0.0001
-70.0000	0.0015	0.0015	0.0019	0.0019	0.0006	0.0009
-52.5000	0.0026	0.0032	0.0040	0.0039	0.0019	0.0022
-35.0000	0.0044	0.0076	0.0091	0.0072	0.0039	0.0044
-17.5000	0.0037	0.0041	0.0008	0.0150	0.0112	0.0113
0.0000	0.0305	0.1183	0.1330	0.0269	0.0258	0.0234
17.5000	0.0036	0.0030	0.0046	0.0237	0.0189	0.0190

Deformações (mm)

35.0000	0.0305	0.1183	0.1330	0.0269	0.0258	0.0234
52.5000	0.0037	0.0041	0.0008	0.0150	0.0112	0.0113
70.0000	0.0044	0.0076	0.0091	0.0072	0.0039	0.0044
87.5000	0.0026	0.0032	0.0040	0.0039	0.0019	0.0022
105.0000	0.0015	0.0015	0.0019	0.0019	0.0006	0.0009

Anexo C4 – Deformações Transversais (mm) – YY

Eixo Trindem rodado duplo 520KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0007	0.0003	0.0005	0.0003	0.0004	0.0001
-70.0000	0.0011	0.0009	0.0013	0.0011	0.0002	0.0004
-52.5000	0.0019	0.0022	0.0028	0.0026	0.0011	0.0014
-35.0000	0.0032	0.0055	0.0066	0.0054	0.0027	0.0030
-17.5000	0.0027	0.0029	0.0005	0.0108	0.0080	0.0082
0.0000	0.0227	0.0881	0.0990	0.0196	0.0189	0.0171
17.5000	0.0026	0.0020	0.0036	0.0173	0.0137	0.0138
35.0000	0.0227	0.0881	0.0990	0.0196	0.0189	0.0171
52.5000	0.0027	0.0029	0.0005	0.0108	0.0080	0.0082
70.0000	0.0032	0.0055	0.0066	0.0050	0.0027	0.0030
87.5000	0.0019	0.0022	0.0028	0.0026	0.0011	0.0014
105.0000	0.0011	0.0009	0.0013	0.0011	0.0002	0.0004

Eixo Trindem rodado duplo 600KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5	0.0007	0.0003	0.0006	0.0002	0.0005	0.0002
-70.0000	0.0013	0.0011	0.0015	0.0013	0.0002	0.0005
-52.5000	0.0022	0.0026	0.0032	0.0030	0.0013	0.0016
-35.0000	0.0037	0.0063	0.0076	0.0057	0.0031	0.0034
-17.5000	0.0031	0.0033	0.0005	0.0124	0.0092	0.0093
0.0000	0.0263	0.1016	0.1143	0.0226	0.0218	0.0197
17.5000	0.0030	0.0024	0.0042	0.0199	0.0159	0.0159
35.0000	0.0263	0.1016	0.1143	0.0226	0.0218	0.0197
52.5000	0.0031	0.0033	0.0005	0.0124	0.0092	0.0093
70.0000	0.0037	0.0063	0.0076	0.0057	0.0031	0.0034
87.5000	0.0022	0.0026	0.0032	0.0030	0.0013	0.0016
105.0000	0.0013	0.0011	0.0015	0.0013	0.0002	0.0005

Eixo Trindem rodado duplo 700KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0008	0.0004	0.0007	0.0002	0.0005	0.0002
-70.0000	0.0015	0.0012	0.0018	0.0016	0.0002	0.0006
-52.5000	0.0025	0.0030	0.0038	0.0035	0.0015	0.0019
-35.0000	0.0043	0.0074	0.0088	0.0068	0.0036	0.0039
-17.5000	0.0036	0.0039	0.0006	0.0146	0.0108	0.0110
0.0000	0.0306	0.1185	0.1333	0.0264	0.0255	0.0229
17.5000	0.0035	0.0027	0.0048	0.0233	0.0185	0.0186

Deformações (mm)

35.0000	0.0306	0.1185	0.1333	0.0264	0.0255	0.0229
52.5000	0.0036	0.0039	0.0006	0.0146	0.0108	0.0110
70.0000	0.0043	0.0074	0.0088	0.0068	0.0036	0.0039
87.5000	0.0025	0.0030	0.0038	0.0035	0.0015	0.0019
105.0000	0.0015	0.0012	0.0018	0.0016	0.0002	0.0006

Anexo C5 – Deformações Longitudinais(mm) – XX

Eixo Simples rodado duplo 520KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0008	0.0009	0.0011	0.0012	0.0005	0.0007
-70.0000	0.0014	0.0017	0.0020	0.0023	0.0012	0.0013
-52.5000	0.0023	0.0032	0.0038	0.0040	0.0023	0.0025
-35.0000	0.0037	0.0069	0.0081	0.0066	0.0040	0.0042
-17.5000	0.0032	0.0047	0.0026	0.0122	0.0092	0.0092
0.0000	0.0230	0.0880	0.0990	0.0198	0.0194	0.0174
17.5000	0.0032	0.0047	0.0026	0.0122	0.0092	0.0092
35.0000	0.0037	0.0069	0.0081	0.0066	0.0040	0.0042
52.5000	0.0023	0.0032	0.0038	0.0040	0.0023	0.0025
70.0000	0.0014	0.0017	0.0020	0.0023	0.0012	0.0013
87.5000	0.0008	0.0009	0.0011	0.0012	0.0005	0.0007
105.0000	0.0005	0.0003	0.0005	0.0005	0.0000	0.0002

Eixo Simples rodado duplo 600KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0010	0.0010	0.0013	0.0014	0.0005	0.0008
-70.0000	0.0017	0.0020	0.0023	0.0027	0.0014	0.0016
-52.5000	0.0026	0.0037	0.0044	0.0045	0.0027	0.0028
-35.0000	0.0043	0.0079	0.0094	0.0076	0.0046	0.0048
-17.5000	0.0036	0.0055	0.0031	0.0141	0.0106	0.0107
0.0000	0.0265	0.1015	0.1143	0.0229	0.0224	0.0201
17.5000	0.0036	0.0055	0.0031	0.0141	0.0106	0.0107
35.0000	0.0043	0.0079	0.0094	0.0076	0.0046	0.0048
52.5000	0.0026	0.0037	0.0044	0.0045	0.0027	0.0028
70.0000	0.0017	0.0020	0.0023	0.0027	0.0014	0.0016
87.5000	0.0010	0.0010	0.0013	0.0014	0.0005	0.0008
105.0000	0.0005	0.0004	0.0006	0.0006	0.0001	0.0002

Eixo Simples rodado duplo 700KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-87.5000	0.0012	0.0012	0.0015	0.0017	0.0006	0.0009
-70.0000	0.0019	0.0023	0.0027	0.0031	0.0017	0.0018
-52.5000	0.0030	0.0043	0.0051	0.0053	0.0032	0.0033
-35.0000	0.0050	0.0093	0.0109	0.0088	0.0054	0.0056
-17.5000	0.0042	0.0064	0.0035	0.0164	0.0125	0.0125
0.0000	0.0309	0.1184	0.1333	0.0266	0.0261	0.0234
17.5000	0.0042	0.0064	0.0035	0.0164	0.0125	0.0125

Deformações (mm)

35.0000	0.0050	0.0093	0.0109	0.0088	0.0054	0.0056
52.5000	0.0030	0.0043	0.0051	0.0053	0.0032	0.0033
70.0000	0.0019	0.0023	0.0027	0.0031	0.0017	0.0018
87.5000	0.0012	0.0012	0.0015	0.0017	0.0006	0.0009
105.0000	0.0006	0.0005	0.0008	0.0007	0.0001	0.0003

Anexo C6 – Deformações Longitudinais(mm) – XX

Eixo Tandem rodado duplo 520KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-60.0000	0.0019	0.0023	0.0027	0.0028	0.0014	0.0016
-30.0000	0.0042	0.0085	0.0097	0.0074	0.0044	0.0047
0.0000	0.0227	0.0879	0.0988	0.0200	0.0192	0.0173
30.0000	0.0050	0.0094	0.0108	0.0088	0.0052	0.0055
60.0000	0.0038	0.0048	0.0058	0.0064	0.0036	0.0039
90.0000	0.0050	0.0094	0.0108	0.0088	0.0052	0.0055
120.0000	0.0227	0.0879	0.0988	0.0200	0.0192	0.0173
150.0000	0.0042	0.0085	0.0097	0.0074	0.0044	0.0047
180.0000	0.0019	0.0023	0.0027	0.0028	0.0014	0.0016
210.0000	0.0008	0.0006	0.0009	0.0008	0.0001	0.0003

Eixo Tandem rodado duplo 600KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-60.0000	0.0021	0.0026	0.0032	0.0032	0.0016	0.0019
-30.0000	0.0049	0.0098	0.0112	0.0085	0.0051	0.0054
0.0000	0.0262	0.1014	0.1141	0.0230	0.0221	0.0200
30.0000	0.0058	0.0108	0.0125	0.0101	0.0059	0.0064
60.0000	0.0043	0.0057	0.0066	0.0073	0.0042	0.0045
90.0000	0.0058	0.0108	0.0125	0.0101	0.0059	0.0064
120.0000	0.0262	0.1014	0.1141	0.0230	0.0221	0.0200
150.0000	0.0049	0.0098	0.0112	0.0085	0.0051	0.0054
180.0000	0.0021	0.0026	0.0032	0.0032	0.0016	0.0019
210.0000	0.0009	0.0007	0.0009	0.0009	0.0001	0.0003

Eixo Tandem rodado duplo 700KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-60.0000	0.0025	0.0030	0.0037	0.0038	0.0019	0.0022
-30.0000	0.0057	0.0114	0.0131	0.0100	0.0059	0.0063
0.0000	0.0305	0.1183	0.1330	0.0269	0.0258	0.0234
30.0000	0.0067	0.0127	0.0146	0.0118	0.0070	0.0075
60.0000	0.0050	0.0066	0.0078	0.0086	0.0049	0.0053
90.0000	0.0067	0.0127	0.0146	0.0118	0.0070	0.0075
120.0000	0.0305	0.1183	0.1330	0.0269	0.0258	0.0234

Deformações (mm)

150.0000	0.0057	0.0114	0.0131	0.0100	0.0059	0.0063
180.0000	0.0025	0.0030	0.0037	0.0038	0.0019	0.0022
210.0000	0.0010	0.0008	0.0011	0.0010	0.0001	0.0004

Anexo C7 – Deformações Longitudinais(mm) – XX

Eixo Trindem rodado duplo 520KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-30.0000	0.0042	0.0084	0.0096	0.0071	0.0042	0.0045
0.0000	0.0227	0.0881	0.0990	0.0196	0.0189	0.0171
30.0000	0.0049	0.0092	0.0106	0.0084	0.0048	0.0052
60.0000	0.0037	0.0046	0.0056	0.0060	0.0032	0.0036
90.0000	0.0051	0.0093	0.0108	0.0085	0.0048	0.0053
120.0000	0.0224	0.0877	0.0986	0.0201	0.0191	0.0173
150.0000	0.0051	0.0093	0.0108	0.0085	0.0048	0.0053
180.0000	0.0037	0.0046	0.0056	0.0060	0.0032	0.0036
210.0000	0.0049	0.0092	0.0106	0.0084	0.0048	0.0052
240.0000	0.0227	0.0881	0.0990	0.0196	0.0189	0.0171
270.0000	0.0042	0.0084	0.0096	0.0071	0.0042	0.0045
300.0000	0.0018	0.0021	0.0026	0.0025	0.0012	0.0015

Eixo Trindem rodado duplo 600KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-30.0000	0.0049	0.0096	0.0111	0.0082	0.0048	0.0052
0.0000	0.0263	0.1016	0.1143	0.0226	0.0218	0.0197
30.0000	0.0057	0.0106	0.0123	0.0096	0.0056	0.0060
60.0000	0.0043	0.0054	0.0064	0.0069	0.0037	0.0041
90.0000	0.0059	0.0108	0.0125	0.0099	0.0056	0.0061
120.0000	0.0258	0.1013	0.1138	0.0233	0.0220	0.0199
150.0000	0.0059	0.0108	0.0125	0.0099	0.0056	0.0061
180.0000	0.0043	0.0054	0.0064	0.0069	0.0037	0.0041
210.0000	0.0057	0.0106	0.0123	0.0096	0.0056	0.0060
240.0000	0.0263	0.1016	0.1143	0.0226	0.0218	0.0197
270.0000	0.0049	0.0096	0.0111	0.0082	0.0048	0.0052
300.0000	0.0021	0.0025	0.0030	0.0030	0.0014	0.0017

Eixo Trindem rodado duplo 700KPa						
	Base			Sub-Base		
Coordenada (YY=0)	CS	GR12	GR15	CS	GR12	GR15
-30.0000	0.0057	0.0113	0.0129	0.0096	0.0057	0.0060
0.0000	0.0306	0.1185	0.1333	0.0264	0.0255	0.0229
30.0000	0.0066	0.0124	0.0143	0.0113	0.0065	0.0070
60.0000	0.0050	0.0063	0.0076	0.0081	0.0043	0.0049
90.0000	0.0068	0.0125	0.0145	0.0115	0.0065	0.0070
120.0000	0.0301	0.1181	0.1328	0.0271	0.0257	0.0232
150.0000	0.0068	0.0125	0.0145	0.0115	0.0065	0.0070

Deformações (mm)

180.0000	0.0050	0.0063	0.0076	0.0081	0.0043	0.0049
210.0000	0.0066	0.0124	0.0143	0.0113	0.0065	0.0070
240.0000	0.0306	0.1185	0.1333	0.0264	0.0255	0.0229
270.0000	0.0057	0.0113	0.0129	0.0096	0.0057	0.0060
300.0000	0.0024	0.0029	0.0035	0.0035	0.0017	0.0019

Anexo D1 – Número de Transferência

Eixo Simples Rodado Duplo 520KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	956,096.63		
	Esmagamento Avançado	4,563,675.30		
	Fadiga	6,918,301.94		
	Cisalhamento		5.66E+07	4.14E+07
Sub-Base	Esmagamento Inicial	4,359,905.06	6,247,786.42	8,492,741.36
	Esmagamento Avançado	20,794,036.83	29,792,344.72	40,490,707.00
	Fadiga	6,918,291.23	6,918,282.68	6,918,285.24

Eixo Simples Rodado Duplo 600KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	556,939.63		
	Esmagamento Avançado	2,659,170.24		
	Fadiga	6,918,318.67		
	Cisalhamento		1.19E+07	8.67E+06
Sub-Base	Esmagamento Inicial	3,207,528.12	4,857,926.56	6,922,867.77
	Esmagamento Avançado	15,300,417.76	23,167,954.36	33,009,640.91
	Fadiga	6,918,288.40	6,918,278.52	6,918,281.47

Eixo Simples Rodado Duplo 700KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	283,428.37		
	Esmagamento Avançado	1,353,747.51		
	Fadiga	6,918,299.26		
	Cisalhamento		2.81E+06	2.03E+06
Sub-Base	Esmagamento Inicial	2,185,386.09	3,546,989.82	5,362,085.18
	Esmagamento Avançado	10,426,770.04	16,918,796.84	25,570,993.39
	Fadiga	6,918,284.84	6,918,273.32	6,918,276.76

Anexo D3 – Número de Transferência

Eixo Tandem Rodado Duplo 520KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	954,582.26		
	Esmagamento Avançado	4,556,450.70		
	Fadiga	6,918,301.94		
	Cisalhamento		5.77E+07	4.55E+07
Sub-Base	Esmagamento Inicial	4,272,082.84	6,196,645.54	8,413,583.53
	Esmagamento Avançado	20,375,400.36	29,548,610.73	40,113,507.68
	Fadiga	6,918,291.23	6,918,285.87	6,918,288.11

Eixo Tandem Rodado Duplo 600KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	555,921.60		
	Esmagamento Avançado	2,654,312.13		
	Fadiga	6,918,300.75		
	Cisalhamento		1.26E+07	9.83E+06
Sub-Base	Esmagamento Inicial	3,133,057.59	4,812,109.87	6,848,483.40
	Esmagamento Avançado	14,945,368.62	22,949,565.69	32,655,149.11
	Fadiga	6,918,288.40	6,918,282.20	6,918,284.78

Eixo Tandem Rodado Duplo 700KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	282,825.35		
	Esmagamento Avançado	1,350,868.83		
	Fadiga	6,918,299.26		
	Cisalhamento		3.08E+06	2.37E+06
Sub-Base	Esmagamento Inicial	2,126,315.73	3,507,996.36	5,294,922.85
	Esmagamento Avançado	10,145,085.59	16,732,900.43	25,250,875.72
	Fadiga	6,918,284.84	6,918,277.61	6,918,280.63

Anexo D3 – Número de Transferência

Eixo Trindem Rodado Duplo 520KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	950,073.43		
	Esmagamento Avançado	4,534,940.38		
	Fadiga	6,918,302.61		
	Cisalhamento		6.19E+07	4.95E+07
Sub-Base	Esmagamento Inicial	4,266,716.37	6,195,347.52	8,410,059.09
	Esmagamento Avançado	20,349,819.02	29,542,424.43	40,096,713.12
	Fadiga	6,918,293.03	6,918,286.93	6,918,309.71

Eixo Trindem Rodado Duplo 600KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	552,897.96		
	Esmagamento Avançado	2,639,883.09		
	Fadiga	6,918,301.52		
	Cisalhamento		1.36E+07	1.07E+07
Sub-Base	Esmagamento Inicial	3,128,510.17	4,810,933.89	6,845,184.36
	Esmagamento Avançado	14,923,687.97	22,943,960.28	32,639,426.89
	Fadiga	6,918,290.45	6,918,283.43	6,918,286.01

Eixo Trindem Rodado Duplo 600KPa				
		SC	GR12	GR15
Base	Esmagamento Inicial	281,029.87		
	Esmagamento Avançado	1,342,297.59		
	Fadiga	6,918,300.16		
	Cisalhamento		3.32E+06	2.58E+06
Sub-Base	Esmagamento Inicial	2,122,725.48	3,506,992.14	5,291,928.72
	Esmagamento Avançado	10,127,964.88	16,728,112.91	25,236,604.66
	Fadiga	6,918,287.24	6,918,279.05	6,918,282.06