-1.37 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	
- 1,327 0. 0.052 2,152 4,755 5,674 8,774 11,791 17,	25,347 26,347 26,348 19,249
51.5334 51.455 51.455 52.098 53.116 56.074 66.216 66.097	75.74 72.74 72.45
4,504, 51,455 51,455 51,659 57,388 64,915 79,726 84,273 84,273 84,273 84,273 84,273 84,273 84,273	94,054 92,064 92,074 92,074 92,074 92,074 93
22.38 28.154 28.154 31.58 31.83 30.552 29.807 28.834 28.834	29.25 29.25 29.25 29.25 29.25 20.786 20.786 20.787 20.
298.15 370.980 370.980 370.980 500 600 600 800 800 800	1170.525 117

0 to 370.98 K crystal 370.98 to 1170.525 K liquid above 117.525 K ideal monatomic gas

REFERENCE STATE

Refer to the individual tables for details.

Na<sub>1</sub>(cr)

te Pressure =  $p^* = 0.1 \text{ MPa}$ 

₽ V

-0.027 -0.064 -0.092 -0.131 -0.154 -0.178

0.203 0.548 0.882 1.506 2.572 3.019

-2513 -2513 -2386 -2385 -1660 -1660 -0762 -0302

33.489 33.472 33.472 33.472 33.472 33.472

CRYSTAL

-6.027 -5.107 -1.327 0. 0.052 1.505 1.505 3.083 3.083 3.083 9.736 9.736 1.1308

121.072 74.885 74.885 73.594 51.914 51.455 71.805 72.098 73.564 60.266 62.582 62.583 62.583 62.583 62.583 62.583 62.583 62.583 62.583 62.583 62.583 62.583 62.583

18.800 18.791 22.451 25.987 27.008 28.204 30.142 31.583

23.814 40.697 46.604 51.455 51.629 56.104 57.898 66.315 64.180 67.689 67.689 87.431 87

-	

CURRENT: June 1962

	K Standard State
Sodium (Na)	$\Delta_t H^2(0 \text{ K}) = 0 \text{ kJ·mol}^{-1}$ Enthalpy Reference Temperature = $T_t = 293.15 \text{ K}$ 1.K-mol-1
$A_r = 22.98977$ Sodium (Na)	$\Delta_0 H^0(0 \text{ K}) = 0 \text{ kJ·mol}^{-1}$ $\Delta_0 H^0(28.15 \text{ K}) = 0 \text{ kJ·mol}^{-1}$
CRYSTAL	
Sodium (Na)	S°(298.15 K) = 51.455 J·K <sup>-1</sup> ·mol <sup>-1</sup>

Fin = 370.98 ± 0.02 K

Martin reports that the low temperature heat capacity of sodium depends on the thermal history of the sample and ascribes this to a  $\Delta_{lm}H^{\circ} = 2.602 \text{ kJ} \cdot \text{mol}^{-1}$ some samples and rises to a peak at 55 K for others. Martin lists heat capacities obtained in several runs on "high purity" sodium at 21 to 300 K and the higher values, those defining the peak at 55 K, have been selected here. The heat capacities reported by Dauphinee et al., have not been used, since one of the authors in a later publication, Martin questions the accuracy of the measurements above 100 K, and at lower temperatures there is no rise to a peak at 55 K. In the range 1.5 to 20 K, Roberts' and Parkinson and Quarrington' have measured the heat capacity of very high purity sodium. The values of Parkinson and Quarrington are somewhat higher than those of Roberts and have been given greater weight, since they show better continuity with Martin s' results. The results of Pickard and Simon have been rejected below martensitic transformation. The effect is most pronounced in the range 40-80 K, where the graph of C, against T increases continuously for 10 K, since they show a peak between 5 and 8 K, a feature not verified by other workers; between 10 and 25 K they agree exactly with the results of Parkinson and Quarrington. 4 Rayne states that the graph of C, against T has a small peak at about 0.9 K. This peak has not been observed in the work of Lien and Phillips' from 0.15 to 1 K, Gaumer and Heer from 0.4 to 2 K and Martin's from 0.4 to 1.5 K. Heat Capacity and Entropy **Enthalpy of Formation** Zero by definition.

Douglas et al. 10 report heat capacities in the range 273 to 1173 K on a sample of not less than 99.9% purity. These values agree to within 1% with those of Martin' in the range 273 to 300 K, and the two sets of dates have been smoothly joined.

### Fusion Data

Douglas et al. 10 have determined the triple point to be 97.82 ± 0.02°C, from which the melting point is calculated to be 97.83 ± 0.02°C, and have measured the enthalpy of fusion

At the boiling point and higher temperatures sodium vapor contains an appreciable proportion of diatomic moleculses. Thompson and Garelis! have made a careful analysis of the available vapor pressure data. Their results are consistent with the Gibbs energy functions **Sublimation Data** 

### References

calculated in the present work and have been adopted

T. M. Dauphinec, D. L. Martin, and H. Preston-Thomas, Proc. Roy. Soc. A233, 214 (1955).
T. M. Dauphinec, D. L. Martin, and H. Preston-Thomas, Proc. Roy. Soc. A233, 214 (1955).
L. M. Roberts, Proc. Phys. Soc. B70, 744 (1957).
D. H. Parkinson and J. E. Quarrington Proc. Phys. Soc. A68, 762 (1955).
G. L. Pickard and F. E. Simon, Proc. Phys. Soc. 61, 1 (1948).
M. R. Lien and N. E. Phillips, Phys. Rev. 118, 958 (1960).
R. E. Gaumer and C. V. Heer, Phys. Rev. 118, 955 (1960).
D. L. Martin, Phys. Rev. 124, 438 (1961).
E. B. Douglas, A. F. Ball, D. C. Ginmings, and W. D. Davis, J. Am. Chem. Soc. 74, 2472 (1952).

1G. W. Thompson and E. Garelis "Sodium-its Manufacture, Properties and Uses," Ed. M. Sittig, Chapter 3, Reinhold Publishing Corporation, Inc., New York (1956) Sodium (Na)

PREVIOUS:

Na<sub>1</sub>(I)

Sodium (Na)	LIQUID A, = 22.986	A <sub>r</sub> = 22.98977 Sodium (Na)	(a)						Na <sub>1</sub> (I)	_
$S^{\circ}(298.15 \text{ K}) = [57.862] \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ $T_{\text{tas}} = 370.98 \pm 0.02 \text{ K}$	$\Delta_t H^{\circ}(298.15 \text{ K}) = [2.406] \text{ kJ·mol}^{-1}$ $\Delta_{tus} H^{\circ} = 2.602 \text{ kJ·mol}^{-1}$		eference Ter	mperature - J·K <sup>-1</sup> mol <sup>-1</sup>	Enthalpy Reference Temperature = T. = 298.15 K  T. C. C. LIG*- FP(T.))(T. C. C. = LIG*- FP(T.))(T. C. C. = LIG*- FP(T.))(T. C. C. = LIG*- FP(T.))(T. C. C. C. = LIG*- FP(T.))(T. C. C. C. = LIG*- FP(T.))(T. C. C. C. E.	X H*-H*C	Standard State Pressure  KJ·mol <sup>-1</sup>	e Pressure = p	= p = 0.1 MPa	<del></del>
<b>Enthalpy of Formation</b> $\Delta H^{\circ}(Na, 1, 298.15 \text{ K})$ is calculated from that of the crystal by adding the enthalpy of $H^{\circ}(298.15 \text{ K})$ , between the crystal and liquid.	of the crystal by adding the enthalpy of fusion and the difference in enthalpy, $H^{\circ}(370.98~{ m K})$ –		5	2			į	ì	Ī	· · · · · · · · · · · · · · · · · · ·
Heat Capacity and Entropy The liquid heat capacity values are derived fre to 298 15 K and 2000 K in a reasonable manner The entropy is calculated in a manner anolog	Heat Capacity and Entropy  The liquid heat capacity values are derived from the enthalpy measurements of Douglas et al. <sup>1</sup> The heat capacity curve was extrapolated to 298 15 K and 2000 K in a reasonable manner.  The entropy is calculated in a manner anologous to that used for the enthalpy of formation.		32.706 32.685 32.068 31.827 31.510	57.862 58.064 63.056 64.915 67.301	57.862 57.863 58.258 58.583 59.130	0, 0.060 1.679 2.349	2.406 2.414 2.580 CRYSTAL <- 0.	1		
Fusion Data The enthalpy of fusion and the melting point were measured by Douglas et al. 1	I were measured by Douglas et al. <sup>1</sup>	<del>2</del> 8 88	30.552 30.552 29.807	70.982 74.225 79.726 84.278	60.247 61.486 64.083 66.652	4831 6.370 9.386 12.338	ರರ ರರ	ರಿದ ರರ	ರರ ರರ	
Vaporization Data Sodium vaporizes to a mixture of monatomic the monatomic gas reaches 1 atm at 1176.9 K at	Vaporization Data Sodium vaporizes to a mixture of monatomic and diatomic gas. The total vapor pressure reaches 1 atm at 1156 K. The vapor pressure of the monatomic gas reaches 1 atm at 1176.9 K and the enthalpy of vaporization to monatomic gas is 23.285 kcal-mol <sup>-1</sup> .			88.163 91.564 94.606 97.377	69.104 71.415 73.584 75.623	15.247 18.134 21.021 23.930	ರರರ ರ	0000	ರರರ ರ	
Reference <sup>I</sup> T. B. Douglas, A. F. Ball, D. C. Ginnngs and	Reference <sup>1</sup> T. B. Douglas, A. F. Ball, D. C. Ginnmgs and W. D. Davis, J. Am. Chem. Soc. 74, 2472 (1952).	1200 1300 1400 1500		99.945 102.357 106.840	77.544 79.361 81.086 82.730	26.881 29.895 32.988 36.165	-96.760 -95.824 -94.809 -93.711	760 2.440 824 10.669 809 18.823	ı	
		892	33.024	108.544	84303	39,426	-97.529			
		PREVIOUS:						CURRE	CURRENT. June 1962	ام

Na (cr,I)

Refer to the individual tables for details.

0 to 370.98 K crystal above 370.98 K liquid

a
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0
CD.

τÆ	ะ	S -[G	-[G*-H*(T,)]/T	$H^{\bullet}-H^{\bullet}(T_i)$	Δ.H.	ş Ş	log K
0	Ö	ó	INFINITE	-6.447	ó	ó	ó
55.120	18.800	11.738	121.072	-6.027	三 三 三 三	C, HUMP MAXIMUM	
2	77.451	23.814	74 885	-5107		NOTIFICAL O	
85	25.987	40.697	53.954	-2651	600	်င်င	ide
28.15	28.154	\$1.455	51.455	77	<b>.</b>	o c	<b>;</b> c
8	28.204	51.629	51.455	0.052	6	io	jo
380	30.142	56.104	51,805	503	oʻ	oʻ	0
370.980 370.980	31.583	57.898 64.915	52.098 52.098	4.755	CRYST	CRYSTAL <> LIQUID TRANSITION	<u> </u>
9	31.510	67.301	53.116	5.674	ö	ď	o'
<del>2</del> 8	30.552	70.982	\$4.901 \$6.675	81.8 81.8	o' c	oʻ c	o' c
8	29.807	79.726	60.074	162.11	်ဝံ	်ဝံ	id
8	1262	84278	63.216	14.743	ó	ď	ď
88	28.945	88.163	66.097	17.652	o o	oʻ (	o' (
88	28.945	2.60	71.17	23.427	ံဝံ	ೆರ	<b>.</b>
001	29.259	91377	73.436	26.335	oʻ	ď	o
1170,525	29.613	99706	74.934	28.411 -	FUG	FUGACTTY - 1 bar	
82	29.790	99.945	75.539	29.286	-96.760	2.440	-0.106
3	135 15	25.50	20107	35.30	-95.824	10.669	6.47
8	32.188	106.840	81.127	38.571	-93.711	26,902	-0.937
0091	33.024	108.944	82.800	41.831	-92.529	34.905	-1.140

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CURRENT December 1983 (1 bar)

PREVIOUS: June 1962 (1 atm)

Sodium (Na)	IDEAL GAS	$A_r = 22.98977$ Sodium (Na)	odium (Na)				Na <sub>1</sub> (g)	
IP(Na, g) = 41449.44 ± 0.03 cm <sup>-1</sup> S'(298.15 K) = 153.667 ± 0.025 J·K <sup>-1</sup> ·mol <sup>-1</sup>		$\Delta_t H^0(0 \text{ K}) = 107.5 \pm 0.7 \text{ kJ·mol}^{-1}$ Enthalpy Reference Temperature = $T_t$ = 298.15 K $\Delta_t H^0(298.15 \text{ K}) = 107.3 \pm 0.7 \text{ kJ·mol}^{-1}$	Enthalpy Referen	erence Temperature = T, = 298.15 F		Standard State Pressure = $p^* = 0.1 \text{ MPa}$ $k_1^* \text{mol}^{-1}$	p* = 0.1 MPa	
			T/K C;	$TK$ $C_s$ $S^* - [G^* - H^*(T_s)]H$ $H^* - H^*(T_s)$ $\Delta_t H^*$ $\Delta_t G^*$ $\log K_t$	$H^{\bullet}-H^{\bullet}(T_i)$ $\Delta_i H^{\bullet}$	\$℃	log K,	

 J·K <sup></sup> -,mol <sup></sup>			$\Delta_t H^o(0 \text{ K}) = 107.5 \pm 0.7 \text{ kJ·mol}^{-1}$ $\Delta_t H^o(298.15 \text{ K}) = 107.3 \pm 0.7 \text{ kJ·mol}^{-1}$
	Electronic	Electronic Levels and Ouantum Weights	
	State	€, cm <sup>-1</sup>	· 30
	2S <sub>12</sub>	0	7 7
	<sup>2</sup> P <sub>1/2</sub>	16956.172	. 7
	$^{2}P_{32}$	16973.368	4
	2S 122	25739.991	2
	•		•
	. <mark>7</mark>	41404.006	• 4
	ы	41449.44	

- 50,907 - 50,907 - 50,907 - 17,086 - 13,44 - 13,44 - 13,44 - 13,44 - 13,44 - 13,44 - 13,44 - 13,44 - 12,16 - 2,01 - 2,01 - 2,01 - 1,18

107.549 97.574 88.6377 76.825 76.636 77.563 62.161 87.636 83.931 93.931 93.931 14.246

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180.802 182,094 182.611 184.275 185.815 187.249

101.783 100.909 100.079 99.270 98.462 97.632

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### **Enthalpy of Formation**

The enthalpy of formation of sodium gas, A<sub>t</sub>H\*(298.15 K) = 107.5 ± 0.7 kJ·mol<sup>-1</sup>, is chosen to be the value recommended by CODATA. This value was obtained from 2nd and 3rd law treatment of vapor pressure data. The reported vapor pressures were corrected for the effects of Na2(g), using Do = 70.63 kJ·mol-1. At higher pressures, an alternate virial treatment was employed

As stated by CODATA, the selected value is the weighted average of the 3rd law values of A. H'(298.15 K) calculated from the following:

Source	Δ <sub>aub</sub> H°(298.15 K), kJ·mol <sup>-1</sup>
Haycock and Lamplough <sup>2</sup>	107.52 ± 0.68
Rodebush and Devries <sup>3</sup>	$107.37 \pm 0.60$
Thiele*	107.99 ± 0.60
Kis Tiakowsky <sup>5</sup>	107.38 ± 0.70
Makansi et al. <sup>6</sup>	$107.18 \pm 0.95$
Shpil'rain and Belova7	107.26 ± 0.78
Sowa*	107.60 ± 1.35
Stone et al.	107.68 ± 1.33
Achener and Jouthas 10	107.85 ± 0.80
Vinogradov and Volyak <sup>11</sup>	107.44 ± 0.60
Bohdansky and Schins <sup>12</sup>	107.47 ± 1.00
Schins et al. 13	107.36 ± 1.22

The 2nd law calculations from the above sources led to somewhat more positive values.1

## Heat Capacity and Entropy

The thermal functions for the five alkali metal monatomic gases are calculated by the same procedure. Oberved and estimated atomic energy levels are included in the partition function calculation, using an ionization potential lowering (IP-KT) technique as the cutoff procedure in the energy level summarism 13 the energy level summation.

The lowest lying levels for these metals [14904 cm<sup>-1</sup> (Li), 16956 cm<sup>-1</sup> (Na), 12985 cm<sup>-1</sup> (K), 12578 cm<sup>-1</sup> (Cs)] do not contribute to the thermal functions below ~1000 K; there is only a translational contribution below this temperature. Above this approximate temperature, the thermal functions become increasingly sensitive to the partition function cutoff procedure used, due to the combined effect of the observation 39(Na), 79(K), 77(Rb), and 73(Cs). However, not all predicted levels have been observed for each of these principal quantum numbers. The ionization potentials vary from 43487.29 cm<sup>-1</sup> for Li to 31406.1 cm<sup>-1</sup> for Cs. In calculating the thermal functions with the inclusion of missing levels up to the high principal quantum numbers just mentioned, the Gibbs energy functions show significant differences (depending on the of atomic energy levels of high principal quantum number and a low ionization potential. Energy levels have been observed up to n = 42 (Li), procedure) above 3000 K.13 cutoff

The atomic energy levels have been taken from the compilation of Martin and Zalubas. 4 Our calculated values for the thermal functions are similar to those recommended by CODATA. They do differ for two reasons, however. First, the entropy differs by 0.1094 J.K.<sup>-1</sup>.mol<sup>-1</sup> because this table uses a reference pressure of 1 bar, whereas the CODATA recommendations are based on 1 atm. Second, the entropies at 298.15 K for all alkali metal gases differs by ~0.004 J.K.<sup>-1</sup>.mol<sup>-1</sup>, presumably due to the use of slightly different values for auxiliary data.

# Continued on page 1673

IDEAL GAS

IP(Na<sup>+</sup>, g) = 381390 ± 50 eV

Sodium, Ion (Na\*)

Naţ(g)

M, = 22.98922 Sodium, Ion (Na\*)

 $\Delta_p H^{\circ}(0 \text{ K}) = 603.4 \pm 0.7 \text{ kJ·mol}^{-1}$ Δ<sub>t</sub>H°(298.15 K) = [609.343] kJ·mol

Electronic Level and Quantum Weight Ę, CE, 0 State 8 S°(298.15 K) = 147.953 ± 0.025 J·K<sup>-1</sup>·mol<sup>-1</sup> Enthalpy of Formation

which is derived from the 1973 CODATA fundamental constants.<sup>3</sup> Rosenstock et al.<sup>4</sup> and Levin and Lias<sup>5</sup> have summarized additional  $\Delta_H^2(Na^2, g, 0 \text{ K})$  is calculated from  $\Delta_H^2(Na, g, 0 \text{ K})^1$  using the spectroscopic value of  $\Pi(Na) = 41449.44 \pm 0.03 \text{ cm}^{-1}(495.846 \pm 0.0000)$ kJ-mol<sup>-1</sup>) from Martin and Zolubas. <sup>2</sup> The ionization limit is converted from cm<sup>-1</sup> to kJ-mol<sup>-1</sup> using the factor, 1 cm<sup>-1</sup> = 0.01196266 kJ-mol<sup>-1</sup>

ionization and appearance potential data.  $\Delta_t H^o(Na, g, 0 K)$  by using IP(Na) with JANAF¹ enthalpies,  $H^o(0 K) - H^o(298.15 K)$ , for Na(g),  $\Delta_t H^o(Na^*, g, 298.15 K)$  is calculated from  $\Delta_t H^o(Na, g, 0 K)$  by using IP(Na) with JANAF¹ enthalpies,  $H^o(0 K) - H^o(298.15 K)$  differs from a room temperature threshold energy due to inclusion of these enthalpies and to threshold effects discussed by Rosenstock *et al.*  $^4\Delta_t H^o(298.15 K)$  should be changed by  $^+6.197 \, \text{k} \cdot \text{mol}^{-1}$  if it is to be used in the ion convention that excludes the enthalpy of the electron.

# Heat Capacity and Entropy

predicted levels have not been observed. Our calculations indicate that any reasonable method of filling in these missing levels and cutting off the summation in the partition function<sup>6</sup> has no effect on the thermodynamic functions to 6000 K. This is a result of the high energy of all levels other than the ground state; the first excited state is approximately 264924 cm<sup>-1</sup> above the ground state. Since inclusion of these excited states has no effect on the thermodynamic functions (to 6000 K), we list only the ground state. The reported uncertainty in S'(298.15 K) is due to uncertainties in the relative ionic mass and the fundamental constants. Extension of these calculations above 6000 K The information on electronic energy levels and quantum weights, given by Martin and Zolubas, 2 is incomplete because many theoretically may require consideration of the excited states and use of different fill and cutoff procedures.6

### References

R. Downey, The Dow Chemical Company, AFOSR-TR-78-960, Contract No. F44620-75-1-0048, (1978). JANAF Thermochemical Tables: Na(g), 12-31-83; e<sup>-</sup>(ref), 3-31-82.
 Aw. C. Martin and R. Zolubas, J. Phys. Chem. Ref. Data 10, 153 (1981).
 E. R. Cohen and B. N. Taylor, J. Phys. Chem. Ref. Data 2, 663 (1973).
 H. M. Rosenstock, K. Draxl et al., J. Phys. Chem. Ref. Data 6, Surp. 1 (1977).
 R. D. Levin and S. G. Lias, U. S. Nat. Bur. Stand., NSRDS-NBS-71, (1982).
 R. Downey, The Dow Chemical Company, APOSR-TR-78-960, Contract No.

<del></del>	Enthalpy R	eference Te	Enthalpy Reference Temperature = T, 1.K-'mol-'	- T, - 298.15 K		Standard State Pressure		p - 0.1 MPa
	7/K	ູ	S -[C	-[G*-H*(T,)]/T	H*-H*(T,)	 <b>∀</b> <sub>H</sub> ,	<b>₽</b> <i>Q</i> •	log Kr
	288°0	0. 20.786 20.786	0. 125.246 139.654 144.292	INFINITE 166.434 149.855 148.296	-6.197 -4.119 -2.040 -1.001	603.395		
	298.15	20.786	147.953	147.953	oʻ	609.343	574.317	-100.618
	88	20.786	148.082	147.954	0.038	609.368 609.994	574.100	-99.960
0-	<b>8</b> 8 8	20.786 20.786	154.062	148.769	3.156	607.903	562.364 556.641	-73.437
٠.=	8 8	20.786	162.490	152.033	6.136 6.274	610,100	539.133	-57.548
	88	20.786	165.694	153.761	8.353	611.305	527.211	-39.341
~ s	88	20.786	173.108	157.018	12.510 14.589	613.823	502.856 490.458	-29.185 -25.619
c	001	20.786	175.089	159.937	16.667	616.342	417.934	-22.695
	8 8 1308 1308	20.786	176.898	161.276	18.746 20.824	520.789 522.867	463.232 463.232	-20.360
	<u>4 2</u>	20.786 20.786	180.102 181.536	163.742 164.881	22,903 24,982	524.946 527.025	458.567	-17.109
Α,	000	20.786	182.877	165.965	27.060	529.103	448.801	-14.652
æ <del>≒</del>	888	20.786	185,326 186,449	167.982	31.217	533.260 535.337	438.513 433.193	-12.725
ų	2000	20.786	187.516	169.828	35.375	537.415	477.763	-11.172
5 Y	2200 2200	20.786	188.530	170.695	39.532	539.491	422.229	-10.502
	885	20.78	191,305	13.102 13.102 13.102	41.510 43.689 45.768	545.709 545.709 547.775	405.053	-8.816
	2600	20.786	192.969	174.567	47.846	549.838	393.164	-7.899
	2800 2800	20.786 20.786	193.754 194.509	175.263 175.937	49.925 52.004	551.895 553.945	387.099 380.958	-7.489
	988 900 900	20.786 20.786	195.239 195.944	176.590 171.223	54.082 56.161	555.988 558.021	374.744 368.460	-6.750 -6.415
	3200	20.786	196.625	177.838	58.239	\$60.044 \$62.055	362.107	-6.101
	3300	20.786	197.925	179.017	62.397	564.052	349.210	-5.528
	3200	20.786	199.148	180.132	66.554	267.997	336.072	-5.016
	33 30 30 30 30 30 30 30 30 30 30 30 30 3	20.786 20.786	200,303	180.669 181.192	68.632 70.711	569.941 571.863	329.418 322.710	-4.780 -4.556
	3800	20.786 20.786	200.857	181.702 182.200	74.868	573.762 575.635 577.889	309.142	-4.140
	4100	20.786	202.437	183.162	79.025	579.293	295.383	-3.763
	8 8 8 8 8 8	20.786	202.937	183.627	83.183	581.075 582.819	288.437 281.448	-3.587
• • • • • • • • • • • • • • • • • • • •	24 4 00 50 00 50	20.786 20.786	203,904	184.527 184.963	85.261 87.340	584.567 586.253	267.348	-3.258
	94 600 600	20.786	204.828	185,390	89.418	587.890	260.243	-2955
	8	20.786	205.713	186.218	93.576	591.028	245.929	-2676
	88	20.786	206.562	180.620	92.73	593.976	231.488	-2.418
	5200 5200	20.786	206.973	187.402	101.890	595.366 596.700	224,225	-2.297
	5300 5400	20.786	207.773 208.161	188.156 188.523	103.969	597.973 599.183	209.619	-2066
	2200	20.786	208.543	188.883	108.126	600.328	194.919	-1.851
	5700 5700	20.786	208.917 209.285	189.238 189.586	110204	601.406	187.539	-1.749
	288	20.786	209.647	190.266	116,440	603.349	165.290	-1.556
	900	70,780	100017	860061	615.611	603.133	078761	1.3/4
	PREVIOUS: March 1965 (1 atm)	March 196	(1 atm)		i	CURR	ENT. Decemb	CURRENT. December 1983 (1 bar)

44.745 51.521 58.392 65.353 72.401

-96.523 -98.605 -100.690 -102.777 -104.867

37.453 39.532 41.610 43.689 45.768

170.695 171.528 172.330 173.102 173.847

20.786 20.786 20.786 20.786 20.786

188.530 189.497 191,306

-106.962 -109.062 -113.283

79.533 86.746 94.037 101.403 103.842 111.535 131.578 131.578 147.066 162.807 162.807 162.807 162.807 163.807 1

174.567 175.263 176.5397 176.5397 177.839 177.839 178.436 179.017 179.013 180.669 181.192 181.703 181.703 181.703 181.703 181.703 181.703 181.703

196.626 197.286 197.925 198.546 198.546

20.786 20.786 20.786 20.786 20.786 20.786 20.786 20.786 20.786 20.786 20.786 20.786 20.786

195.239

192.970

-117541

-124.024

47.846 49.925 55.004 56.101 58.139 66.337 66.337 66.337 70.711 77.7300 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.7300 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.7300 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.7300 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.7300 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.730 77.7

2	2	Ė
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CURRENT: December 1983 (1 bar)

-2.862 -2.895 -2.959 -2.959

236.550 245.026 253.556 262.142 270.781

157.230 159.891 162.597

-165.363

-152.054

89.418

185.390 185.809 186.219 186.621 187.016

204.829 205.276 205.714 206.142 206.562

20.786 20.786 20.786 20.786 20.786 20.786 20.786 20.786

206.974

20.786 20.786 20.786 20.786 20.786

195.010 203.206 211.459 219.766 228.130

183.163 183.628 184.082 184.528

-139.865

-128.431 -130.665 -132.924 -135.208 -135.208

199.734 200.303 200.858 201.398 201.924 202.437 203.427 203.905 204.372 -3.020

-183259 -186.481 -189.776 -192.990

10.204 12.283 14.362 16.440 18.519

-180.110

208.918

M, = 22.99032 Sodium, Ion (Na-)

Na<sub>1</sub>g)

Standard State Pressure = p = 0.1 MPa

log K

₽ Q

K-mol- $\Delta_t H$ 

H\*-H\*(T,

 $-[G^{\bullet}-H^{\bullet}(T_{i})]T$ 

ž

147.954 48.083

20.786 20.786 20.786 20.786 20.786

0. 20.786 20.786 20.786

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J.K-'mol-'

54.683

IDEAL GAS EA(Na, g) =  $0.547930 \pm 0.000025$  eV S°(298.15 K) =  $147.954 \pm 0.005 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ Sodium, Ion (Na<sup>-</sup>)

 $\Delta_t H^{\circ}(0 \text{ K}) = 54.68 \pm 0.1 \text{ kJ} \cdot \text{mol}^{-1}$   $\Delta_t H^{\circ}(298.15 \text{ K}) = [48.236] \text{ kJ} \cdot \text{mol}^{-1}$ 

Enthalpy Reference Temperature = T, = 29&15 K

Electonic Level and Quantum Weight E, CH, 0.0 State

# **Enthalpy of Formation**

The entialpy of formation, at 0 K, for Na^(g) is calculated from the adopted electron affinity, EA(Na, g) = 0.547930 ± 0.00025 eV (52.867 ± 0.002 kJ·mol-¹). This value, recommended by Hotop and Lineberger,\* was measured by a tunable laser detachment threshold technique. Additional discussion on Na (g) may be obtained in the critical discussions of Hotop and Lineberger, 1 6 Rosenstock et al., 3 and

4.506 4.454 4.454 4.327 4.1367 6.030

152.033

162.490 165.695 168.470 170.918 173.108

-10.657 -11.047 -5.400 0.408 6.365 6.365 112.460 118.685 2.5.033 31.496 38.069

16.667 18.746 20.814 22.903 24.982 27.060 29.139 33.296 35.375

-86.125 -88.203 -90.282 -92.362 -94.442

165.965 166.998 167.983 168.926 169.829

184.138 185.326 186.450 187.516

21.900 -77.810 -79.889 -81.967 -84.046

161.277 162.543 163.743 164.882

181.536 182.878

20.786 20.786 20.786 20.786 20.786 20.786 20.786 20.786

175.090 176.898 178.562 180.102

159.937

 $\Delta_H^{A'}$ (Na<sup>-</sup>, g. 298.15 K) is obtained from  $\Delta_H^{A'}$ (Na, g. 0 K) by using EA(Na, g.) with JANAF<sup>5</sup> enthalpies,  $H^{9}$ (0 K)– $H^{9}$ (298.15 K), for Na<sup>-</sup>(g), Na(g), and e <sup>-</sup>(ref).  $\Delta_H^{A'}$ (Na<sup>-</sup>  $\rightarrow$  Na + e <sup>-</sup>, 298.15 K) differs from a room-temperature threshold energy due to inclusion of these enthalpies and to threshold effects discussed by Rosenstock et al. <sup>3</sup>  $\Delta_H^{A'}$ (298.15 K) should be changed by + 6.197 kJ·mol<sup>-1</sup> if it is to be used in the ion convention which excludes the enthalpy of the electron.

# Heat Capacity and Entropy

The ground state configuration for Na (g) is given by Hotop and Lineberger and Rosenstock et al. Lacking any experimental evidence as to the stability of any excited states, we assume that no stable excited states exist.

References

<sup>1</sup>H. Hotop and W. C. Lineberger, J. Phys. Chem. Ref. Data 4, 539 (1975).

<sup>2</sup>P. A. Schulz, R. D. Mead, and W. C. Lineberger, Phys. Rev. A. in preparation.

<sup>3</sup>H. M. Rosenstock, K. Daxal et al., J. Phys. Chem. Ref. Data 6, Supp. 1 (1977).

<sup>4</sup>H. S. W. Massey, "Negative Ions," 3rd ed., Cambridge University Press, Cambridge, (1976).

<sup>5</sup>JANAF Thermochemical Tables: Na(g), 3–31–82.

<sup>6</sup>H. Hotop and W. C. Lineberger, J. Phys. Chem. Ref. Data, 14, 731 (1985).

Sodium, Ion (Na<sup>-</sup>)

PREVIOUS

46.781 49.524 52.271 55.021 57.776

49.049 52.918 56.777 60.683 68.488 772.403 772.403 84.202 88.152 88.152 88.153 89.203 100.053 1116.046

310.706 312.201 313.643 315.039 316.390

39.107 39.196 39.285 39.285 39.460 39.547 39.547 39.633 39.806

-24.802 -24.930

60.535 63.298 66.067 68.841 71.621

-25.220 -25.385 -25.566 -25.764

282.850 283.959 285.038 286.090 287.116

320.204 321.404 322.571

39.977 40.062 40.147 40.233

317.699

-25.981

1.033 1.033 1.033 1.034 1.036

74.406 77.198 79.996 82.802 85.615

289.094 290.048 290.981 291.893

323.708 324.816 325.897 326.952 327.982

40.402 40.487 40.572 40.656 40.741

88.436 91.266 94.106 96.951 99.808

148.435 152.522 156.617 160.721 164.833

292.786 293.659 294.515 295.354 296.176

328.989 329.974 330.938 331.881

40.825 40.909 40.994 41.078 41.162

102.677

173.082 177.219 181.365 185.519

296,982 297.773 298,549 300,060

333.711 334.599 335.470 336.325 337.164

41.246 41.330 41.415 41.499 41.667

89.68

300.796 301.519 302.230 302.929

337.988 338.798 339.594 340.377

41.835 41.918 42.002

- 10.647 - 1

23.575 -23.515 -23.662 -23.662

250.221 252.623 254.901 257.064 259.122

286.592 286.592 289.248

38.109 38.228 38.445 38.445

291.739 294.085 296.302 298.404 300.403 302,309 304.130 305.874 307.548 309.157

38.645 38.740 38.834 38.926 39.017

41.317 35.227 39.256 23.388 17.611

78.262 77.415 76.594 75.779 74.952

8.745 8.745 11.440 14.139 16.840 19.546 22.254 22.254 22.254 22.254 22.254 22.254 23.31 23.31 23.31 24.043

23.820 -23.878 -23.940 -24.004

-23.765

-24.071 -24.142 -24.218 -24.299 -24.385

261.084 262.956 262.956 266.454 266.454 266.112 266.112 276.695 277.106 275.802 275.802 276.80

CURRENT: December 1967 (1 bar)

n
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m
z
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= 38.98917 Sodium Oxide (NaO)

Standard State Pressure = p = 0.1 MPa

 $\Delta_{i}H$ 

 $H^{\bullet}-H^{\bullet}(T_i)$ 

-17.967 -13.567 -10.737

61.287

83.680

MAINTEN

10 17 + 10 38J = \( \lambda \text{O'0.11 V}	11. CY [0:14 - +0:00] = (V 0) ref	$\Delta_H^{*}(298.15 \text{ K}) = 183.68 + 41.81 \text{ k}$
	1	$[229.13 \pm 2.1] \text{ J-K}^{-1} \text{mol}^{-1}$

IDEAL GAS

Sodium Oxide (NaO)

S°(298.15 K) -

229.13 ± 2.11 J·K <sup>-1</sup> ·mol <sup>-1</sup>			HV	$\Delta_i H^{\circ}(0 \text{ K}) = [85.04 \pm 41.8] \text{ kJ·mol}^{-1}$	Enthalpy R	eference Te	mperature	thalpy Reference Temperature = T, = 298.15 K	١.,
•			i		7/K	ย	[C	S -[G-H'(T,)]T	I #
	Electronic	Level and Quantum Weig	点		٥٥	0. 27.	0.	INFINITE	•
	State	£, cm <sup>-1</sup>	38		8	33.116	215.486	232.293	
_	r <sup>2</sup> m		15		250	34,324	223.013	229.708	'
	(m)	>	Ē		298.15	35.147	229.133	229.133	
1		7			300	35.173	229.351	229.134	
. m. [440] cm		. m. [3.0] cm	<b>.</b>		350	35.777	234.821	229.565	
B <sub>e</sub> = [0.4467] cm	Ţ.,	a. = [0.0043] cm <sup>-1</sup>	1,	- [2.0] A	8	36.218	239.628	230.528	
			•		<del>2</del>	36,550	243.914	231.782	

### Enthalpy of Formation

Bawn and Evans¹ studied the reaction rate of sodium vapor with nitrous oxide, nitrogen peroxide, nitromethane, ethyl nitrate and arnyl nitrite, using the diffusion flame method. On the evidence of reaction rate measurements they estimated the value,  $\Delta_1 H^2(298.15 \, \text{K}) < 0$ , for the reaction Na(g) + NO<sub>4</sub>(g) = NaO(g) + NO(g). Based on this result, we calculate  $\Delta_1 H^2(\text{NaO})$ , g, 298.15 K) > 12 kcal·mol<sup>-1</sup>, using  $\Delta_1 H^2(298.15 \, \text{K}) = 25.8$ , 7.9 and 21.6 kcal·mol<sup>-1</sup> for Na(g), NO<sub>4</sub>(g) and NO(g), respectively.

Assuming that  $D_0^0$  (NaO) = 1/2 [ $D_0^0$ (Na<sub>2</sub>) +  $D_0^0$ (O<sub>2</sub>)], or  $\Delta_1 H^0$ (0 K) = 68.1 kcal·mol<sup>-1</sup> for the reaction NaO(g) = Na(g) + O(g), we derive

Δ<sub>t</sub>H\* = 16.7 and Δ<sub>t</sub>H\*(288 15 K) = 16.4 kcai·mol¹, using Δ<sub>t</sub>H\*(0 K) = 25.8 and 500 kcai·mol¹ for Na(g) and O(g), respectively. Somayajulu² found that in a sequence of similar diatomic molecules the force constant (k.), dissociation energy (Ω² and equilibrium bond distance (r.) are related by the expression k-r, (D₀² = constant. Using r, = 1.62 Å.D₀² = 77.9 kcal·mol¹ for LiO(g), r, = 2.0 Å for NaO(g) and k(NaO)/k(LiO) = 0.4827, we evaluate D₀² = 65.4 kcal·mol¹ for NaO(g), yielding Δ<sub>t</sub>H\*(NaO, g, 298.15 K) = 19.4 kcal·mol¹. The value k, calculated from the relation  $k_0 = 4^2 \mu^2$  where is the vibrational frequency of the diatomic molecule and  $\mu$  is the reduced mass.

The value of  $\Delta_i H^0(NaO, g, 298.15 \text{ K})$  is tentatively adopted as  $20 \pm 10 \text{ kcal mol}^{-1}$ . The corresponding  $D_0^0(NaO)$  is  $65 \pm 10 \text{ kcal mol}^{-1}$ .

# Heat Capacity and Entropy

The ground state configuration is assumed to be the same as that for OH(g) which has the same number of valence electrons as NaO(g). The values of  $\omega_{e}$  and  $\omega_{e}$ , are estimated by comparison with those for LiO(g), LiF(g) and NaF(g). The value of  $r_{e}$  is estimated from those for OH(g), HF(g) and NaF(g). B, and  $\alpha_{e}$  are derived from  $r_{e}$ ,  $\omega_{e}$  and  $\omega_{e}$ , by the method suggested by Herzberg.

<sup>1</sup>C. E. H. Bawn and A. G Evans, Trans. Faraday Soc. 33, 1571 (1937).
 <sup>2</sup>G. R. Somayajulu, J. Chem. Phys. 33, 1541 (1960).
 <sup>3</sup>G. Herzberg, "Spectra of Diatomic Molecules," D. Van Nostrand Co., Inc., New York, (1950).

PREVIOUS: December 1967 (1 atm) 56555 5555 5655

-4.181 6.364 16.989 27.692 38.471

-277.270 -279.441 -281.619 -283.806

88.221 92.188 96.164 100.149

265.142 266.427 267.672 268.881 270.055

299.074 300.571 302.017 303.415 304.769

49.323 60.246 71.239 82.301 93.428 115.877 127.196 138.577 150.018

-299.467 -301.772 -304.099 -306.450

128.290 132.346 136.410 140.483

271.195 272.306 273.387 274.440 275.440 277.447 277.443 277.337 280.250 281.144 282.876 283.716 282.876 283.716

312.105 313.216 314.320 315.358 316.391 317.402 318.389 319.356 320.302 321.229

-288.212 -290.433 -292.667 -294.916 -297.182

108.145 112.157 116.177 120.206 124.244

306.081 307.355 308.592 309.795 310.965

161.519 173.079 184.697 196.370 208.101

-311.233 -313.668 -316.139 -318.603 -318.603

148.655 152.755 156.863 160.979 165.105

23.476 20.305 117.977

-55.588 -45.493 -35.302 -25.017 -14.642

-266.506 -268.649 -270.797 -272.949 -275.107

68.523 72.444 76.375 80.315 84.264

258.031 259.556 261.026 262.445 263.816

292.485 292.485 294.232 295.909 297.521

-104.419 -94.891 -85.237 -75.465 -65.580

-255.833 -257.962 -260.094 -262.228 -264.366

49.057 52.931 56.814 60.708 64.611

249.417 251.290 253.082 254.799 256.447

265.687 269.011 274.925 277.584 280.077 282.426 286.750 288.752

CURRENT December 1967 (1 bar)

-352.135 -355.318 -358.573 -361.903

2.497 2.575 2.725 2.725 2.736 2.2931 2.996 3.120

219.890 231.735 243.636 255.594 267.606 279.674 291.797 303.977 316.211

337.217

90.041

289.168 289.892 290.604 291.305 291.394

326.431 327.243 328.043 328.828 329.601

285.347 286.139 286.917 287.681 288.431

322.138 323.029 323.903 324.761 325.603

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Sodium Ox

IDEAL GAS

Na<sub>1</sub>O<sub>7</sub>(g)

Standard State Pressure =  $p^* = 0.1$  MPa

rence Temperature = T, = 298.15 K S -[G\*-H'(T,)]/T

K-Inol

M, = 38.98972 Sodium Oxide, Ion (NaO<sup>-</sup>)

log K,

δĞ

C-mod  $\Delta_H$  -113.755

- 134.001 - 134.080 - 136.081 - 136.081 - 138.901 - 143.970 - 144.091 - 144.091 - 144.091 - 144.091 - 144.091 - 144.091 - 144.091 - 144.091 - 132.078

-133.041 -135.967 -138.866 -141.759 -147.598 -249.460 -251.581 -253.705

242.848 248.601 253.617 258.064 262.059

-121.389 -122.848 -127.006 -128.549 -130.066

217.704 223.163 227.963 232.243 236.105

217.487

Enthalpy Reference Te	ಕ್ಷ	0. 29.702 32.996	35.064	35.091 35.712 36.168 36.513	37.175 37.455 37.670 37.846	38.132 38.256 38.371 38.481	38.788 38.788 38.885 38.981 39.075	39.168 39.261 39.352 39.443	39.624 39.714 39.803 39.892 39.981	40.070 40.158 40.247 40.335	40.511 40.686 40.774 40.774	40.949 41.036 41.124 41.211	41.385 41.473 41.647 41.734	41.821 41.908 42.082 42.169	42.256 42.343 42.430 42.604
Enthalpy F	τÆ	200°	250	088 <b>44</b> 8	8 8 8 8 8 8	2500 1300 1300 1300 1300 1300 1300 1300 1	200 1800 1900 2000	2200 2300 2400	8 25 25 25 25 25 25 25 25 25 25 25 25 25	3200 3200 3300 3400 3500	3600 3700 3800 4000	4200 4300 4400 4500 4500	4500 4700 4900 6000	\$100 \$200 \$300 \$400 \$500	2500 2500 2500 2500 2500 2500 2500 2500
$\Delta_t H^0(0 \text{ K}) = \begin{bmatrix} -113.76 \pm 83.7 \end{bmatrix} \text{ kJ·mol}^{-1}$ $A_t H^0(0 \text{ K}) = \begin{bmatrix} -113.76 \pm 83.7 \end{bmatrix} \text{ kJ·mol}^{-1}$ $A_t H^0(0 \text{ K}) = \begin{bmatrix} -121.34 + 82.7 \end{bmatrix} \text{ kJ·mol}^{-1}$		Electronic Level and Quantum Weight State \$\epsilon\$, cm^-1 \$\epsilon\$,	(1) 0 (3,)	$\omega_e = [450] \text{ cm}^{-1}$ $\omega_e \xi_e = [3.2] \text{ cm}^{-1}$ $\sigma = 1$ $B_e = [0.4467] \text{ cm}^{-1}$ $\alpha_e = [0.00495] \text{ cm}^{-1}$ $r_e = [2.0] \text{ Å}$	ion 4 NaO (g) is unavailable, therefore the value of $\Delta_t H^2(\text{NaO}_{\cdot}, g, 298.15 \text{ K})$ is estimated. We first assume that the (0 K) of the reaction (1) NaO (g) = Na(g) + O (g) is close to the average of the $\Delta_t H^3(0 \text{ K})$ uccircl values for the Na(g) + O(g) and (3) NaF(g) = Na(g) + F(g). The atom F(g) is isoelectronic with O (g), in other words, the $\Delta_t H^3(0 \text{ K})$	proximately 1/2 (648 + 113.9) = 89.3 kcal·mol <sup>-1</sup> . Then we compare the $\Delta_i H^0(0  K)$ values for the reactions (4) (5) HO <sup>-</sup> (g) = H(g) + O <sup>-</sup> (g), and (6) HF(g) = H(g) + F(g), and find that $\Delta_i H^0(0  K)$ for reaction (5) is experimentally cal·mol <sup>-1</sup> which is about 8 kcal·mol <sup>-1</sup> more negative than the average of $\Delta_i H^0(0  K)$ values for reactions (4) and (6). estimate $\Delta_i H^0(0  K) = 80$ kcal·mol <sup>-1</sup> for reaction (1), yielding $\Delta_i H^0(0  M) = 29$ kcal·mol <sup>-1</sup> which is	the uncertainty of this value may be $\pm 20  \text{kcal-mol}^{-1}$ . Based on this $\Delta_0 H'(298.15  \text{K})$ value we calculate E. A. = 2.1 $\pm$ 0.9 presponding value for HO(g) is 1.8 $\pm$ 0.1 eV. Entropy	nfiguration is assumed to be the same as that of NaF(g) which is isoelectronic with NaO'(g). The values of ω, ω, τ, ι comparison with the observed data for NaF(g). The values of B, and α, are calculated from r, ω, and ω, τ, using the by Herzberg.'	a of Diatomic Molecules," D. Van Nostrand Co., Inc., New York, (1950).						

### Enthalpy of Formation

The electron affinity of NaO<sup>2</sup>(g) is unavailable, therefore the value of  $\Delta_t H^2$ (NaO<sup>2</sup>, g, 298.15 K) is estimated. We first assume that the enthalpy change  $\Delta_t H^2(0 \text{ K})$  of the reaction (1) NaO<sup>2</sup>(g) = Na(g) + O<sup>2</sup>(g) is close to the average of the  $\Delta_t H^2(0 \text{ K})$  uccircl values for the reactions (2) NaO(g) = Na(g) + O(g) and (3) NaF(g) = Na(g) + F(g). The atom F(g) is isoelectronic with O<sup>2</sup>(g). In other words, the  $\Delta_t H^2(0 \text{ K})$  for reaction (1) is approximately 1/2 (6.48 + 113.9) = 89.3 kcal·mol<sup>-1</sup>. Then we compare the  $\Delta_t H^2(0 \text{ K})$  values for the reactions (4) HO(g) = H(g) + O(g), 5/3 HO<sup>2</sup>(g) + H(g) + P(g), and find that  $\Delta_t H^2(0 \text{ K})$  for reactions (5) is experimentally determined as 109.7 kcal·mol<sup>-1</sup> which is about 8 kcal·mol<sup>-1</sup> more negative than the average of  $\Delta_t H^2(0 \text{ K})$  values for reactions (4) and (6). Based on this fact we estimate  $\Delta_t H^2(0 \text{ K}) = 80$  kcal·mol<sup>-1</sup> for reaction (1), yielding  $\Delta_t H^2(0 \text{ K}) = 20$  kcal·mol<sup>-1</sup> which is entirely adopted. The uncertainty of this value may be ±20 kcal·mol<sup>-1</sup>. Based on this  $\Delta_t H^2(298.15 \text{ K})$  value we calculate E. A. = 2.1 ± 0.9 eV for NaO(g). The corresponding value for HO(g) is  $1.8 \pm 0.1$  eV.

# Heat Capacity and Entropy

The ground state configuration is assumed to be the same as that of NaF(g) which is isoelectronic with NaO (g). The values of  $\omega_c$ ,  $\omega_{c,t}$  and  $\sigma_c$  are estimated by comparison with the observed data for NaF(g). The values of  $B_c$  and  $\sigma_c$  are calculated from  $r_c$ ,  $\omega_c$  and  $\omega_c \omega_c$  using the method recommended by Herzberg.

### Reference

G. Herzberg, "Spectra of Diatomic Molecules," D. Van Nostrand Co., Inc., New York, (1950)

(NaO <sup>-</sup> )
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December 1967 (1 atm)

**PREVIOUS** 

Na<sub>1</sub>O<sub>2</sub>(cr)

4	

$\Delta_t H^0(0 \text{ K}) = -263.88 \pm 2.9 \text{ kJ·mol}^{-1}$ $\Delta_t H^0(298.15 \text{ K}) = -260.66 \text{ kJ·mol}^{-1}$	Enthalpy R	eference To	mperature	Enthalpy Reference Temperature = $T_r = 298.15 \text{ K}$ $1 \cdot \text{K}^{-1} \text{mol}^{-1}$	<b>×</b>	Standard Sta	Standard State Pressure = $p^* = 0.1 \text{ MPa}$ k I-mol <sup>-1</sup>	p = 0.1 MPa
Δ <sub>m1</sub> H° = 1464.400 kJ·mol <sup>-1</sup>	7.K	ະ	S -{C	-[G*-H*(T,)]/T	$H^{\bullet}-H^{\bullet}(T_{*})$		₽ <sub>C</sub>	log Kr
$\Delta_{\text{tr}_2}H^{\sigma} = 1548.080 \text{ kJ·mol}^{-1}$ $\Delta_{\text{tus}}H^{\sigma} = \text{Unknown}$	° 2 8	0. 45.564 78.450	0. 30.585	INFINITE 194.891 118.679	-18351 -16.431 -8.088	-263.884 -266.208 -763.737	-263 884 -249.554 -232 044	130.354 130.354 60.604
	298.15	72.141		115.897	o o	-260.663	-218.712	38.317
smposition of NaO <sub>2</sub> (cr) in H <sub>2</sub> O, yielding e value of $\Delta_t H^0$ (298 15 K) was recalcu-	888	76.274	116.343	115.898	7.558	-260.636 -261.805	-218.452	38.036
	865	84.475 88.502 97.634	170.151 183.474 195.560	130.763	23.633 32.281	-258.066 -255.625	-176.450	15.361
ities above 298 15 K were estimated by	888	96.962 101.211	206.721	150.258	\$0.817 60.726	-249.627 -246.067 -246.067	-149.390 -137.331 -125.041	7.79
and (canap.).	288	105.186	236.314	162.403 168.171	71.046	-242.164	-113.124 -99.137	5.372 4.315
	88	17.211	253.746 261.971	179.173 184.421	104.402	-323.422 -313.422 -317.219	-60.747	2.267 1.470
	000 1800 800 800 800 800 800 800 800 800	125.311 129.386 133.478	269.925 277.645 285.156	189.517 194.475 199.305	128.653	-310.637 -303.672 -296.324	-24.077 -6.378 10.899	0.786 0.196 -0.316
	2000	141.712	299.645	208.620	182.048	-280.468	44.200	-1.154
	PREVIOUS:				:		CURRI	CURRENT June 1963

M<sub>r</sub> = 54.98857 Sodium Superoxide (NaO<sub>2</sub>)

 $S^{\circ}(298.15 \text{ K}) = 115.90 \pm 1.3 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ Sodium Superoxide (NaO<sub>2</sub>)

**Enthalpy of Formation** 

Tha = 825 ± 10 K Tm2 = 223.3 K Lest = 196.5 K

 $\Delta H^{*}(298.15 \text{ K})$  was obtained from Wagman. Giles and Margrave<sup>2</sup> measured the enthalpy of decomposition of NaO<sub>2</sub>(cr) in H<sub>2</sub>O, yielding  $\Delta H^{*}(298.15 \text{ K}) = -62.1 \pm 0.7 \text{ kcal·mol}^{-1}$ . From the original experimental data by de Forcrand, the value of  $\Delta H^{*}(298.15 \text{ K})$  was recalcu lated to be -65.0 kcal·mol-1 by Gilles and Margrave.2

# Heat Capacity and Entropy

The low temperature heat capacities, 52.13-296.46 K, were measured by Todd. The heat capacities above 298 15 K were estimated by comparison with those for Na<sub>2</sub>O(cr). S°(298.15 K) was given by Todd' using S°(51 K) = 2.23 cal·K<sup>-1</sup>·mol<sup>-1</sup>(extrap).

### **Transition Data**

Test, Test, AniH° and AutH° were calculated from the data reported by Todd.4

### Fusion Data

The melting temperature was obtained from Margrave.5

References
<sup>1</sup>D. D. Wagman, U. S. Nat. Bur. Stand. Report 7437, ch. B4 (1962).
<sup>2</sup>P. W. Giles and J. L. Margrave, J. Phys. Chem. 60, 1333 (1956).
<sup>3</sup>R. de Forcrand, Compt. Rend. 127, 514 (1898); 158, 843, 991 (1914).
<sup>3</sup>S. S. Todd, J. Amer. Chem. Soc. 75, 1229 (1953).
<sup>3</sup>J. L. Margrave, University of Wisconsin, personal communication, (May 21, 1963).

CURRENT. December 1983 (1 bar)

PREVIOUS: June 1962 (1 atm)

Sodium (Na<sub>2</sub>)

$M_r = 45.975$ Sodium (Na <sub>2</sub> )
IDEAL GAS

Sodium (Na,

Na<sub>2</sub>(g)

$\Delta H^{\circ}(298.15 \text{ K}) = 142.07 \pm 1.20 \text{ kJ·mol}^{-1}$	$^{2}(298.15 \text{ K}) = 230.243 \pm 0.030 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$
$\Delta_i H^{\circ}$ (0 144.56 $\pm$ 1.20 kJ·mol <sup>-1</sup>   Enthalpy Refer	0 = 71.113 ± 0.072 kJ·mol⁻¹

D6=71.	$D_0^2 = 71.113 \pm 0.072 \text{ kJ·mol}^{-1}$	$D_0^0 = 71.113 \pm 0.072 \text{ kJ·mol}^{-1}$	-11-				Δ <sub>0</sub> Δ	H*(0 144.56 ± V) = 1/0 m +	$\Delta_0 H^0(0.144.56 \pm 1.20 \text{ kJ·mol}^{-1}]$ Enthalpy Reference	Enthalpy K	eference
. (290.I	J N) = 720.4.	V.f ocoro = c+	10111.				C1.0(2) 147	- 10:2F1 - (VI	2	7.K	ប
State	T.	D%	ğ	Spectroscop	Spectroscopic Data for Na <sub>2</sub> in cm <sup>-1</sup> $\omega_{c}x_{c}$ $B_{c}$ $10^{3}$ $\alpha_{c}$		10° D,	re À	Reference	2000 o	36.922
in i	0	6024	159.11	0.72142	0.15474	0.86827	0.58972	3.07857	d. e6	298.15	31.577
¥.	14681	22900	117.32	0.35/58	0.110/8	0.54884	0.38816	3.0384		88	37.585
		(a) -1.5354	(a) $-1.5354 \times 10^{-3} (v + 1/2)^3 - 2.3576 \times 10^{-5} (v + 1/2)^4$	$2)^{3} - 2.3576 \times$	10 <sup>-5</sup> (v + 1/2)	*				84	37.984
		(b) -4.2855	(b) $-4.2855 \times 10^{-6} (v + 1/2)^2 - 1.4784 \times 10^{-7} (v + 1/2)^3$	2) <sup>2</sup> – 1.4784 >	(2/1 + 1/2)	<b>.</b>				8	38.327
		(c) - 3.9068	(c) $-3.9068 \times 10^{-9} (v + 1/2) + 9.1188 \times 10^{-11} (v + 1/2)^2$	$2) + 9.1188 \times$	$10^{-11}(v + 1/2)^2$					99	38.667
		(d) Reference for Do	ce for Do							92	38.998
		(a) Deferent	(e) Reference for constants							8	39.769
		(c) Referent	(c) The resolution assignment bound on the assignment of V community at alf D = 2775 cm <sup>-1</sup>	nd bound on the	A journal of V	te moleculous	1 1 1 - 8774	1-16		88	39.411
		(1) 11115 VZII	UC WAS CSUILLAND	י המאכם הוו	communication of the	Ollowalow, Cl	70 - 37 . 18	3		3	200.40
		(g) + 5.1671	(g) + 5.1671 $\times$ 10 <sup>-3</sup> (v + 1/2) <sup>3</sup> + 9.2770 $\times$ 10 <sup>-3</sup> (v + 1/2) <sup>3</sup>	2) <sup>2</sup> + 9.2770 ×	10 (v + 1/2)					81	39.123
		(A) + 1 6257	$(h) + 16252 \times 10^{-8} (v + 1/2)^2 + 3.1645 \times 10^{-8} (v + 1/2)^3$	$21^2 + 3.1645 \times$	$10^{-6}(v + 1/2)^3$					1200	38,680
					`-:· · ·					1300	20 07

# **Enthalpy of Formation**

Using the adopted value of the dissociation energy for Na<sub>2</sub>(g), D<sub>0</sub> = 71 113 kJ·mol<sup>-1,2</sup> and the recommended  $\Delta H^{\circ}(Na,g,0\,K)$  = 107.32 KJ = 1.5 from NBS, we calculate  $\Delta H^2/Na_3$ , g, 0 K) = 143.51  $KJ = 10^{-1}$ . Since this value is only 1.05  $KJ = 10^{-1}$  smaller than the NBS recommended value of 144.56  $KJ = 10^{-1}$  we adopt the NBS result. Correcting this value to 298.15 K using the current value of  $H^2(298.15 \text{ K}) - H^2(0 \text{ K})$  for Na(cr) we obtain  $\Delta H^2(Na_3, g)$ ,  $R = 10403.27 \text{ J} K^{-1} = 10403.27 \text$ 298.15 K) = 142.05 kJ·mol-

# Heat Capacity and Entropy

well (The ½\* state of Li<sub>2</sub>(g) contributes anignificantly to the thermodynamic functions.) Second, the <sup>1</sup>II<sub>a</sub>, <sup>1</sup>Σ<sub>a</sub>, and <sup>1</sup>Σ<sub>a</sub> states were combined as a single <sup>1</sup>Z<sub>a</sub> state using the spectroscopic constants of Kamimsky<sup>2</sup> and an artifical degeneracy of 10 (6 for the <sup>1</sup>II<sub>a</sub>, 1 for the <sup>1</sup>Σ<sub>a</sub>, and 3 for the <sup>1</sup>Z<sub>a</sub> state). This procedure certainty overestimates the <sup>1</sup>Z<sub>a</sub> contribution (which lies above the <sup>1</sup>Z<sub>a</sub> state by ca. 3300 cm<sup>-1</sup>) but at the same time underestimates the <sup>1</sup>II<sub>a</sub> contribution (which lies below the <sup>1</sup>Z<sub>a</sub> state by ca. 1100 cm<sup>-1</sup>). In any case the contribution to the Gibbs energy Konowalow, Rosenkrantz and Olson show that the relative ordering of states is equivalent to that of Li<sub>2</sub>(g) (see Li<sub>2</sub>(g) table). Since the excited state contribution to all thermodynamic functions (except for the heat capacity) for Li<sub>2</sub>(g) was small (~0.2% at 6000 K) we decided to treat the excited states for Na<sub>2</sub>(g) in an approximate way as follows. First, the <sup>3</sup>2, state was neglected entirely due to the extremely shallow potential terms results in uncertainties similar to the Lige) calculation (the Gibbs energy function at 6000 K is probably only 0.3 J·K<sup>-1</sup>·mol<sup>-1</sup> smaller than the truncated rovib expression method). The rotational levels of the ground state were weighted in accordance with the nuclear spin of 3/2 (even J weight = 0.625, odd J weight = 0.375). The adopted value of 5°(298.15 K) is only 0.1 J·K<sup>-1</sup> mol<sup>-1</sup> lower than that adopted by Innetion is very small (< 0.01 J.K<sup>-1</sup>-mol<sup>-1</sup>) at temperatures below 2500 K and only contributes ca. 3 J-mol<sup>-1</sup> K<sup>-1</sup> at 6000 K. Note also that The heat capacity and entropy were calculated using a direct summation technique similar to the Ligg calculation (refer to Ligg) table) using data recommended by Stwalley. For the ground state. Reliable spectroscopic data for the lower lying excited states of Na2 is sparse. Only the \(\sum\_{\bullet}^2\) state at \(I\_{\bullet} = 14680.6\) cm^-1 has been experimentally characterized with any degree of confidence. Theoretical calculations by the Dunham coefficients for the ground state are reported to higher order in than used in the calculation. The neglect of these higher order

### Reference

'W. C. Stwalley, Director, Iowa Laser Facility and Professor of Chemistry and Physics, University of Iowa, personal communication, (1982).
Pk. K. Verma, J. T. Bahns, A. R. Rizi, W. C. Stwalley, and W. T. Zemke, J. Chem. Phys. 78, 3599 (1983).

"Constants of Diatomic Molecules," Van Nostrand Reinhold Co., New York, (1979). P. Huber and G. Herzberg,

D. Konowalow, M. E. Rosenkrantz, and M. L. Olson, J. Chem. Phys. 72, 2612 (1980)

<sup>5</sup>M. E. Kaminsky, J. Chem. Phys, **66**, 4951 (1977).

Kusch and M. M. Hessel, J. Chem. Phys. **68**, 2591 (1978). D. Wagman, *et al.*, J. Phys. Chem. Ref. Data 11, Supp. 2 (1982).

Standard State Pressure =  $p^{\circ}$  = 0.1 MPa -68.28 -19.556 -19.556 -11.567 -11.577 -11.577 -11.577 -11.577 -11.577 -11.577 -11.577 -11.577 -11.577 -11.577 -11.577 -11.578 -2410 -2501 -2586 -2665 -2665 -2.806 -2.870 -2.930 -2.987 -3.040 -3.091 -3.138 -3.183 -3.266 -3.266 -3.366 -3.408 -3 -3.596 -3.618 -3.639 -3.659 -3.697 -3.715 -3.733 -3.749 NFINITE 360.993 369.862 378.737 387.620 96.876 105.350 113.868 122.430 131.034 139.678 148.361 157.080 165.832 183.422 192.253 201.105 209.972 218.852 227.742 236.639 245.540 254.442 263.344 281.139 280.031 298.911 307.789 316.664 325.534 334.401 343.265 352.128 -92.582 -92.414 -92.220 -92.386 -93.093 -91.269 -91.756 -92.145 -93.977 120.513 -75.016 -75.334 -75.720 -76.182 -76.726 -77.354 -78.846 -78.846 -83.566 -84.583 -88.419 -89.252 42.070 -809.08 -85.591 -86.575 -87.523 -90.011 k I-mol  $\Delta_{cH}$  $H^{\bullet}-H^{\bullet}(T_{\bullet})$ 66.840 70.048 73.226 76.389 92.549 95.964 99.474 103.092 106.830 110.694 118.828 123.103 123.067 132.067 141.549 146.466 151.488 156.601 161.795 167.057 17.373 17.730 10.403 -7.271 -3.660 -1.803 49.925 53.455 56.904 60.279 63.587 193.921 ce Temperature = T, = 298.15 K S -[G\*-H\*(T,)]T 278.946 280.147 281.205 281.205 281.207 281.507 281.507 281.207 280.327 291.213 290.327 291.213 290.327 291.213 290.327 291.208 291.20 297.871 298.656 299.432 300.199 300.957 263.552 265.451 267.253 268.966 270.595 272.147 273.628 275.044 276.398 277.698 230,243 237.686 43.949 46.893 49.687 -K-1mol-1 310.767 311.980 313.168 314.337 315.495 334.188 335.331 336.459 337.569 230.476 236.286 241.346 245.830 249.859 256.876 262.862 268.088 27.27.23 276.875 280.618 284.004 287.077 289.873 292.423 294.755 296.895 298.867 300.692 302.389 303.976 305.468 306.881 308.227 316.646 317.794 318.944 320.098 321.257 322.422 323.593 324.770 325.952 327.136 328.322 329.507 330.689 331.864 333.032 339.731 223.647 230,243 52.908 53.386 53.733 53.952 54.050 ひひろ て めりはけひ ひめのこめ 35.624 35.761 37.996 39.305 40.666 42.055 44.823 44.823 44.823 39.123 38.680 38.074 37.347 36.546 35.714 34.891 34.891 34.891 32.280 31.908 31.681 31.610 31.700 54.032 53.906 53.681 53.681 52.971 32.381 32.988 33.712 

M<sub>r</sub> = 61.97894 Sodium Oxide (Na<sub>2</sub>O)

CRYSTAL (y-B-a)

 $\Delta_t H^{\circ}(0 K) = -413.15 \pm 4.2 \text{ kJ} \cdot \Delta_t H^{\circ}(298.15 K) = -417.98 \pm 4.2 \text{ kJ} \cdot \Delta_t H^{\circ}(\gamma \to \beta) = 1.757 \text{ kJ} \cdot \Delta_t H^{\circ}(\gamma \to \beta) = 1.$ 

S°(298.15 K) = 75.042 J·K<sup>-1</sup>·mol<sup>-1</sup>

Sodium Oxide (Na<sub>2</sub>O)

The enthalpy change of the reaction Na<sub>2</sub>O(cr) + H<sub>2</sub>O(t) = 2 NaOH(aq) has been determined by Matsui and Oka 12 Roth and Kaule<sup>3</sup>  $\Delta_{co}H^{\circ}(\beta \rightarrow \alpha) = 11.924 \text{ kJ}$ A.H. = 47.698 kJ Rengade. Based on their reported  $\Delta H^{\circ}$  values, the corresponding  $\Delta H^{\circ}(298.15\,\mathrm{K})$  for Na<sub>2</sub>O(cr) are calculated, using  $\Delta_{s}H^{\circ}(H)$ Enthalpy of Formation  $\Gamma_{\rm er}(\gamma \rightarrow \beta) = 1023.2 \, \rm K$  $\Gamma_{\rm tr}(\beta \to \alpha) = 1243.2 \, {\rm K}$ Tim = 1405.2 K

AasH° and AasH° reported by Parker.7 The sample employed by Matsui and Oka was prepared by the method of Rengade and cor Na20 vapor consists predominately of Na(g) and OA(g) molecules with any oxide molecules being not important. The Na/O ratio wa measured and assumed to be 2/1 in all calculations on Na<sub>2</sub>O. Based on the reported data, we derive the equilibrium constants for the rea 298.15 K) = -68.315 kcal-mol obtained from and AH (NaOH, nH2O, 298.15 K) derived from JANAF AH (NaOH, cr, 298.15 K necessary. The enthalpy change of the reaction 2 Na(cr) + H<sub>2</sub>O(l) = Na<sub>2</sub>O(cr) + H<sub>3</sub>(g) was calculated by Rengade<sup>3</sup> from his measuren incorporating with  $\Delta_4 H^3 = -85.2$  kcal·mol<sup>-1</sup> for the reaction 2 Na(cr) + 2 H<sub>2</sub>O(l) = 2 NaOH(aq) + H<sub>3</sub>(g) determined by Joannis.<sup>10</sup> The  $\Delta_4 H^3$ (298.15 K) = -94.9 kcal·mol<sup>-1</sup> is derived from the data of Forcrand<sup>1</sup> using  $\Delta_4 H^3$ (Na<sub>2</sub>O<sub>5</sub>, cr, 298.15 K) = -122.66 kcal·mol<sup>-1</sup> Brewer and Margrave 13 determined the equilibrium constants, 918 1467 K, for the vaporization of Na,O(cr), using an effusion method Na<sub>2</sub>O(cr) and Na(cr) as impurities. The sample used by Roth also contains 3.96% (by weight) Na<sub>2</sub>O<sub>2</sub>(cr). Corrections in the reported r for such impurities have been made by the authors. However, in order to obtain better results, more measurements using purer sampl results are presented in the table below.

Na<sub>2</sub>O(cr) = 2 Na(g) + 1/2 O<sub>2</sub>(g) and evaluate the 3rd law  $\Delta_4 H^9(298.15 \text{ K})$  as 117.1 ± 10 kcal·mol<sup>-1</sup>. From this  $\Delta_4 H^9(298.15 \text{ K})$  value obtain  $\Delta_4 H^9(298.15 \text{ K})$  for Na(g). The value – 65.6 kcal·mol<sup>-1</sup>, employing  $\Delta_4 H^9(298.15 \text{ K})$  for Na(g). The value – 65.6 kcal·mol<sup>-1</sup> is consistent with the other values described above. This may be caused by an invalid assumption used in the calculation. The enthalpy of formation at 298.15 K for Na<sub>2</sub>O(cr) is tentatively selected as – 99.90 ± 1.0 kcal·mol<sup>-1</sup>.

		Δ,H°(298.15 K)	Δ <sub>H</sub> *(298.15 K)
Source	Reaction	kcal-mol-1	kcal·mol <sup>-1</sup>
	Na <sub>2</sub> O(cr) + H <sub>2</sub> O(l) = 2 NaOH(7890 H <sub>2</sub> O)	$-56.61 \pm 0.16$	- 100.08
	Na <sub>2</sub> O(cr) + H <sub>2</sub> O(l) = 2 NaOH(4600 H <sub>2</sub> O)	$-56.70 \pm 0.07$	-99.89
	Na <sub>2</sub> O(cr) + H <sub>2</sub> O(l) = 2 NaOH(825 H <sub>2</sub> O)	$-56.03 \pm 0.13$	-100.55
		$-55.98 \pm 0.13$	-100.60
•	Na <sub>2</sub> O(cr) + H <sub>2</sub> O(I) = 2 NaOH(aq)	-56.50	-100.09
	2 Na(cr) + $H_2O(1) = Na_2O(cr) + H_2(g)$	-28.70	-97.02
	Na <sub>2</sub> O(cr) + 1/2 O <sub>2</sub> (g) = Na <sub>2</sub> O <sub>2</sub> (cr)	-27.76	-94.90

# Heat Capacity and Entropy

The low temperature heat capacities, 15-380 K, were obtained from Furukawa. We make the corrections in the reported C, value impurity Na<sub>2</sub>CO<sub>3</sub>(cr) 2.33% (by weight), analyzed by Grimley and Margrave. The effect on heat capacity due to the present Na<sub>2</sub>O<sub>2</sub>(0.91%) impurity is insignificant. Using the smoothed low temperature C, data, the S'(298.15 K) is calculated, base S'(15 K) = 0.0122 cal·K-1.mol-

Grimley and Margrave <sup>12</sup> measured the high temperature enthalpies, 380.1–1174.6 K, with a copper block drop type calorimeter enthalpies for the  $\gamma$  phase, 380.1–980.4 K, are joined smoothly with the low temperature data and extrapolated to 1023.2 K (the  $\gamma$ transition temperature. The enthalpies above 1023.2 K are obtained by extrapolation. The enthalpies measured at 1078.3 and 1174.6 Grimley are unreasonably large, and are not adopted.

# The transition temperature and heats of transition were determined calorimetrically by Bouaziz et al. 14 who used a very pure sample Transition Data

 $T_{ha}$  and  $\Delta_{ha}H^3$  were obtained from Bouaziz et al. <sup>14</sup> The adopted  $\Delta_{ha}H^3$  is an average of the reported 10.8–12.0 kcal·mol<sup>-1</sup>.  $T_{ha}$  has been reported as 1193 and 1190 ± 10 K by Bunzel and Kohlmeyer13 and Brewer and Margrave, 13 respectively, which are not adopted. **Fusion Data** 

adopted A.H. = 0.42 and 2.85 kcal-mol-1, are averages of the derived values, 0.36-0.48 and 2.7-3.0 kcal-mol-1, respectively.

<sup>1</sup>M. Matsui and S. Oka, J. Soc. Chem. Ind. (Japan) 32, 79 (1929).
<sup>2</sup>M. Matsui and S. Oka, J. Soc. Chem. Ind. (Japan) 32, 83 (1929). <sup>3</sup>W. A. Roth and H. L. Kaule, Z. Anorg. Chem. 253, 352 (1947).
<sup>4</sup>W. A. Roth, Z. Anorg. Chem. 255, 324 (1948).

Continued on page 1673

-lom-	Enthalpy R	eference Te	mperature	Enthalpy Reference Temperature = T, = 298.15 K	×	Standard Sta	Standard State Pressure = " = 0 1 MPs	. = 0.1 MPs	_
-Loui-			J·K-'mol-'			LL-mol-1			
-lou-	7.K	ប	ي د -[و	-[G*-H*(T,)]/T	$H^{\bullet}-H^{\bullet}(T_i)$	Δ,H*	₽°	log Kr	
· non·	-88	32.752	0. 16.649	INFINITE 128.981	-12.399	-413.146 -416.111	-413.146 -404.348	INFINITE 211.210	
	298.15	69.103	75.042	75.047	-6.381	-417.626	-391.841	102.338	
34 and	300	69.245	75 470	75.043	0.138	206.114	379.040	00.413	
1,0,1	<b>\$</b> \$	15.776 81.496	96.304	77.840	7386	-423.456	-365.363	47.712	
	9	85.709	129.103	89.717	23.631	-422 555	-336.410	79 787	
mente	88	88.851	142.560	96.324	32.365	-421.353	-322.142	24,039	
Silling	26	25,52	154.589	102.869	41.376	-419.828	-308.070	20.115	
ics are	800		175.373	115.355	60.018	-416.169	-280.541	17.075	
value	1023.150		177.549	116.737	62219	5	AA <> BETA	,	
The	200		907.671	10.737	1650		KANSTITON		
	8 8	97.629	194.645	127.111	81540	-412.418	-267.206	12.689	
d. The	1243.150	98.140	198.103	129.516	85.264	BET	BETA <> ALPHA		
as not	1300	98.788	212.098	133.031	107 786	1 711 885-	KANSITION 170 358		
acuon le we	<u>4</u>	99.860	219.459	138.945	112.719	-584.147	-192.218	7.172	
is not	1405.200	99.913	219.829	139.243	113239 -	ALPHA	٧	i	
	1500	100.868	226.383	144.545	122.756	-580.088	-164.364	5.724	
	99	101.822	232.923	149.866	132.891	-575.944	-136.784	4.466	
	88	103.617	245.021	159.778	143.119	-571.720	-109.465	3.363	
	0061	104.470	250.646	164.414	163.841	-563.042	-55.571	1528	
	2000	105,307	256.026	168.861	174330	-558.594	-28,977	0.757	
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Sodium Oxide (Na<sub>2</sub>O)

PREVIOUS: June 1962

CURRENT: June 1968

Na<sub>2</sub>O<sub>1</sub>(cr)

Sodium Oxide (Na <sub>2</sub> O)	רוסמום	<i>M<sub>r</sub> =</i> 61.97894 Sodium Oxide (Na <sub>2</sub> O)	kO mnipos	ide (Na	Q.					Na <sub>2</sub> O <sub>1</sub> (I)
$S^{*}(298.15 \text{ K}) = [91.607] \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ $T_{tas} = 1405.2 \text{ K}$	$\Delta_t H^o(298.15 \text{ K}) = [-372.843] \text{ kJ} \cdot \text{mol}^{-1}$ $\Delta_{tu} H^o = 47.698 \text{ kJ} \cdot \text{mol}^{-1}$	72.843] kJ·mol <sup>-1</sup>	Enthalpy Reference Temperature = $T_r$ = 298.15 K J·K <sup>-1</sup> mol <sup>-1</sup> Trk C* S* -1G*-1F(Tx)/IT	ference Ten	mperature = J·K - Imol-1	ture = $T_r$ = 298.15 F mol <sup>-1</sup> $-[G^2 - H^2(T_s)]/T$	X		Standard State Pressure = $p^{\circ}$ = 0.1 MPa A.T·mol <sup>-1</sup> $\Delta H^{\circ}$ $\Delta G^{\circ}$ log K.	• = 0.1 MPa
Enthalpy of Formation ΔH°(Na <sub>2</sub> O, I, 298.15 K) is calculated from Δ <sub>H</sub> "(Na <sub>2</sub> O, c H°(298.15 K), between Na <sub>2</sub> O(cr) and Na <sub>2</sub> O(f).	rthalpy of Formation A <sub>f</sub> 4"(Na <sub>2</sub> O, 1, 298.15 K) is calculated from A <sub>f</sub> 4"(Na <sub>2</sub> O, cr, 298.15 K) by adding A <sub>lw</sub> 4" and the difference in enthalpy, <i>H</i> "(1405.2 K)- "(298.15 K), between Na <sub>2</sub> O(cr) and Na <sub>2</sub> O(f).	у, Н°(1405.2 К)-	000	\$		100		,	138 600	6037
Heat Capacity and Entropy The heat capacity is estimated by comparison with those for Na <sub>2</sub> SiO <sub>2</sub> (I) and SiO <sub>2</sub> (I), to that used for the enthalpy of formation.	for Na <sub>2</sub> SiO <sub>3</sub> (I) and SiO <sub>2</sub> (I). S°(I, 298.15 K) is calculated in a manner analogous	manner analogous		104.600 104.600 104.600	92.254 122.346 145.687	91.609 91.609 95.712 103.460	0.194 10.654 21.114 31.574	-372.780 -375.049 -372.321	-338.680 -327.373 -315.766 -304.721	58.969 42.751 32.988 26.528
Fusion Data Refer to the crystal table for details.			88888	104.600 104.600 104.600	180.882 194.849 207.169 218.190	120.834 129.232 137.221 144.776	42.034 52.494 62.954 73.414	-366.545 -363.572 -360.589 -357.635	-294.160 -284.022 -274.257 -264.824	21.950 18.545 15.917 13.833
Decomposition Data $T_{den}=2223~\rm K$ is the temperature at $\Delta_i G^*=0$ for the decomposition reaction Na <sub>2</sub> O(1)	omposition reaction $Na_2O(1) = 2 Na(g) + 1/2 O_2(g)$ .			104.600 104.600 104.600	228.159 237.261 245.633 253.385	151.911 158.649 165.023 171.061	83.874 94.334 104.794 115.254	-354.746 -545.481 -540.970 -536.474	-255.683 -241.922 -216.808 -192.041	12.141 10.531 8.711 7.165
			0	104.600 104.600 104.600 104.600 104.600	253.773 260.601 267.352 273.693 279.672 285.328 290.693	171.366 176.792 182.244 187.438 192.398 197.142 201.686	115.797 - 125.714 136.174 146.634 157.094 167.534 178.014 178.014	-51.992 -521.533 -527.523 -523.066 -518.622 -514.191 -509.772	- 167.596 - 143.448 - 119.580 - 95.974 - 72.614 - 49.488	
		***************************************	7500 7500 7500 7500 7500 7500 7500	04.600 104.600 104.600 104.600	295.796 300.662 305.312 309.764 314.034	206.047 210.238 214.271 218.158 221.908	188.474 198.934 209.394 219.854 230.314	-505.367 -500.976 -496.600 -492.240 -487.899	-26.582 -3.886 18.611 40.918 63.044	0.661 0.092 -0.423 -0.891 -1.317
			2800 2800 3000 3000	104.600 104.600 104.600 104.600	318.136 322.084 325.888 329.559 333.105	225.531 229.034 232.426 235.712 238.900	240 774 251 234 261 694 272.154 282.614	-483.576 -479.275 -474.998 -470.745 -466.522	84.996 106.783 128.410 149.885 171.214	-1.708 -2.066 -2.396 -2.700 -2.981
			PREVIOUS June 1962	une 1962				ļ	CURR	CURRENT June 1968

Na<sub>2</sub>O<sub>1</sub>(cr,l)

K crystal, gamma K crystal, beta K crystal, alpha K liquid

1023.2 1243.2 1405.2 1405.2

0 to 1023.2 to 1243.2 to above

Refer to the individual tables for details.

| C7         S - IG*-IF(T) IT         H*-H*(T,)         AH*           0         0         0         0         0           32.752         16.649         128.981         -11.239         -413.146           5 69.103         75.042         0         -411.982         -411.46           5 69.103         75.042         0         -411.982         -411.982           7 577         95.344         75.042         0.128         -417.852           87.705         175.043         0.128         -417.982         -423.455           87.705         173.04         73.86         -423.45         -418.075           87.705         175.73         115.335         60.018         -416.103           91.201         145.869         96.324         32.363         -416.103           91.201         145.89         10.229         418.073         -416.103           91.201         145.39         10.203         416.133         -416.103           90.202         117.349         116.737         63.971         -416.103           90.203         117.311         11.040         -60.391         -416.108           90.204         177.349         116.737         63.971   | C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0,         0         DEFINTE         -12.39         -413.146 <t< th=""><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))H         H<sup>+</sup>-H(T<sub>1</sub>) A<sub>1</sub>H<sup>+</sup>         A<sub>G</sub>*           3.7.72         16.649         182.881         −11.239         −413.146         −43.146           9.531         49.209         81.114         −6.381         −417.625         −391.841           9.543         75.042         75.042         0.         −417.835         −378.090           9.248         75.042         73.043         0.128         −417.835         −378.49           75.776         96.245         77.840         0.128         −417.835         −35.843           75.776         96.243         73.86         −423.415         −35.843           85.777         175.043         102.29         −413.435         −35.441           91.291         143.256         96.344         413.76         −1418.23         −35.441           91.291         141.235         60.018         −416.169         −29.341           92.248         175.375         116.737         62.119         −24.242           92.256         175.375         116.737         62.119         −24.242           92.256         175.36         116.737         62.219         −412.418         −26.226           95.256</th><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) A<sub>H</sub>         A<sub>G</sub>           3.7.72         16.649         188.81         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.832         -378.090           9.248         73.40         73.043         0.128         -417.832         -378.349           17.75         96.24         77.840         1.236         -417.832         -378.349           18.75         96.23         7.386         -423.45         -36.316           88.81         142.560         96.314         1.262         -32.341           99.128         113.853         116.737         56.018         -416.169         -28.240           99.128         115.379         116.379         -418.075         -32.341           98.128         116.279         41.176         -418.176         -24.240           99.25         116.379         60.18         -41.186         -24.240           95.24         115.35         60.018         -41.186         -32.241           95.25         117.548         110.229</th><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) Δ<sub>H</sub>         Δ<sub>G</sub>           3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737         6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249           <t< th=""><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) Δ<sub>H</sub>         Δ<sub>G</sub>           3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737         6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249           <t< th=""><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) A<sub>H</sub>         A<sub>G</sub>           3.7.72         16.649         188.81         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.832         -378.090           9.248         73.40         73.043         0.128         -417.832         -378.349           17.75         96.24         77.840         1.236         -417.832         -378.349           18.75         96.23         7.386         -423.45         -36.316           88.81         142.560         96.314         1.262         -32.341           99.128         113.853         116.737         56.018         -416.169         -28.240           99.128         115.379         116.379         -418.075         -32.341           98.128         116.279         41.176         -418.176         -24.240           99.25         116.379         60.18         -41.186         -24.240           95.24         115.35         60.018         -41.186         -32.241           95.25         117.548         110.229</th><th>C<sub>5</sub>         S - (G<sup>+</sup>H(T<sub>1</sub>))H         H<sup>+</sup>-H(T<sub>1</sub>) A<sub>H</sub>         A<sub>G</sub>           3.7.72         16.649         188.81         -11.239         -413.146         -43.146           3.7.72         16.649         18.811         -16.239         -411.625         -391.841           9.5.31         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         73.043         0.128         -417.832       
 -378.49           5.7.76         96.245         77.840         0.128         -417.832         -378.349           5.7.76         96.244         77.840         17.86         -427.312         -36.316           88.1.496         113.855         83.731         15.262         -427.312         -36.410           9.1.291         142.589         107.289         41.776         -418.879         -36.410           9.1.291         142.588         107.289         41.776         -418.879         -32.241           9.2.266         175.379         116.737         60.18         -416.169         -28.240           9.2.266         175.379         116.737         62.219         -412.418         -26.226           9.2.266         116.737</th><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) Δ<sub>H</sub>         Δ<sub>G</sub>           3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737         6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249           <t< th=""><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           9.2.51         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         7.5042         0.128         -417.832         -378.349           5.7.76         96.324         7.386         -427.312         -378.349           8.8.17         19.203         87.17         23.631         -35.241           8.8.18         19.226         96.324         41.376         -41.332         -36.340           9.1.28         11.345         116.737         242.335         -36.410         -32.241           9.2.66         116.737         6.219         -41.146         -23.241         -32.241           9.2.66         116.737         6.219         -41.248         -32.241         -32.241           9.2.66         116.737         6.219         -41.248         -22.214         -22.214           9.2.66         116.737         6.219</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -391.341           9.0.13         75.042         0.12.39         -417.625         -378.49           9.10.23         73.402         0.12.39         -417.625         -378.49           9.10.24         73.042         0.12.39         -417.825         -378.49           9.12.10         13.835         33.332         15.262         -363.34           9.12.24         73.86         -422.345         -36.341           9.12.25         96.324         37.355         -419.233         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -32.241           9.12.26         116.377         60.18         -410.238         -32.241           9.12.26         116.377         62.219         -410.238         -32.241           9.12.26         116.377         62.219         -410.238</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241   
       9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349          
57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - (G^+-H(T))/T         H*-H(T)         AtH         AG*         b           3.7.72         16.649         118.981         -112.39         -413.146         -43.146         IN           9.531         49.209         81.114         -6.381         -411.626         -913.841         IN           9.531         49.209         81.114         -6.381         -411.626         -319.841         IN           9.034         73.40         73.643         -417.892         -379.090         9.31.841         IN           8.776         96.34         73.643         1.223         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.34         13.56         -417.892         -378.392         -36.333         13.241         10.22.333         -372.140         9.32.243         13.56         -418.073         -243.244         9.32.242         13.56         -418.073         -249.244         9.32.242         13.56         -373.242         13.56         13.24.244         9.32.242         13.24.244</th></th></th></th></t<></th></t<></th></t<></th></t<> | C <sub>5</sub> S - (G <sup>+</sup> -H(T <sub>1</sub> ))H         H <sup>+</sup> -H(T <sub>1</sub> ) A <sub>1</sub> H <sup>+</sup> A <sub>G</sub> *           3.7.72         16.649         182.881         −11.239         −413.146         −43.146           9.531         49.209         81.114         −6.381         −417.625         −391.841           9.543         75.042         75.042         0.         −417.835         −378.090           9.248         75.042         73.043         0.128         −417.835         −378.49           75.776         96.245         77.840         0.128         −417.835         −35.843           75.776         96.243         73.86         −423.415         −35.843           85.777         175.043         102.29         −413.435         −35.441           91.291         143.256         96.344         413.76         −1418.23         −35.441           91.291         141.235         60.018         −416.169         −29.341           92.248         175.375         116.737         62.119         −24.242           92.256         175.375         116.737         62.119         −24.242           92.256         175.36         116.737         62.219         −412.418         −26.226           95.256   
   
   
  | C <sub>5</sub> S - (G <sup>+</sup> -H(T <sub>1</sub> ))/H         H <sup>+</sup> -H(T <sub>1</sub> ) A <sub>H</sub> A <sub>G</sub> 3.7.72         16.649         188.81         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.832         -378.090           9.248         73.40         73.043         0.128         -417.832         -378.349           17.75         96.24         77.840         1.236         -417.832         -378.349           18.75         96.23         7.386         -423.45         -36.316           88.81         142.560         96.314         1.262         -32.341           99.128         113.853         116.737         56.018         -416.169         -28.240           99.128         115.379         116.379         -418.075         -32.341           98.128         116.279         41.176         -418.176         -24.240           99.25         116.379         60.18         -41.186         -24.240           95.24         115.35         60.018         -41.186         -32.241           95.25         117.548         110.229  
   
   
   
  | C <sub>5</sub> S - (G <sup>+</sup> -H(T <sub>1</sub> ))/H         H <sup>+</sup> -H(T <sub>1</sub> ) Δ <sub>H</sub> Δ <sub>G</sub> 3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737         6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249 <t< th=""><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) Δ<sub>H</sub>         Δ<sub>G</sub>           3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737         6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249           <t< th=""><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) A<sub>H</sub>         A<sub>G</sub>           3.7.72         16.649         188.81         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.832         -378.090           9.248         73.40         73.043         0.128         -417.832         -378.349           17.75         96.24         77.840         1.236         -417.832         -378.349           18.75         96.23         7.386         -423.45         -36.316           88.81         142.560         96.314         1.262         -32.341           99.128         113.853         116.737         56.018         -416.169         -28.240           99.128         115.379         116.379         -418.075         -32.341           98.128         116.279         41.176         -418.176         -24.240           99.25         116.379         60.18         -41.186         -24.240           95.24         115.35         60.018         -41.186         -32.241           95.25         117.548         110.229</th><th>C<sub>5</sub>         S - (G<sup>+</sup>H(T<sub>1</sub>))H         H<sup>+</sup>-H(T<sub>1</sub>) A<sub>H</sub>         A<sub>G</sub>           3.7.72         16.649         188.81         -11.239         -413.146         -43.146           3.7.72         16.649         18.811         -16.239         -411.625         -391.841           9.5.31         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         73.043         0.128         -417.832         -378.49           5.7.76         96.245         77.840         0.128         -417.832         -378.349           5.7.76         96.244         77.840         17.86         -427.312         -36.316           88.1.496         113.855         83.731         15.262         -427.312         -36.410           9.1.291         142.589         107.289         41.776         -418.879         -36.410           9.1.291         142.588         107.289         41.776         -418.879         -32.241           9.2.266         175.379         116.737         60.18         -416.169         -28.240           9.2.266         175.379         116.737         62.219         -412.418         -26.226           9.2.266         116.737</th><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) Δ<sub>H</sub>         Δ<sub>G</sub>           3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737         6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249           <t< th=""><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           9.2.51         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         7.5042         0.128         -417.832         -378.349           5.7.76         96.324         7.386         -427.312         -378.349           8.8.17         19.203         87.17         23.631         -35.241           8.8.18         19.226         96.324         41.376         -41.332         -36.340           9.1.28         11.345         116.737         242.335         -36.410         -32.241           9.2.66         116.737         6.219         -41.146         -23.241         -32.241           9.2.66         116.737         6.219         -41.248         -32.241         -32.241           9.2.66         116.737         6.219         -41.248         -22.214         -22.214           9.2.66         116.737         6.219</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -391.341           9.0.13         75.042         0.12.39         -417.625         -378.49           9.10.23         73.402         0.12.39         -417.625         -378.49           9.10.24         73.042         0.12.39         -417.825         -378.49           9.12.10         13.835         33.332         15.262         -363.34           9.12.24         73.86         -422.345         -36.341           9.12.25         96.324         37.355         -419.233         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -32.241           9.12.26         116.377         60.18         -410.238         -32.241           9.12.26         116.377         62.219         -410.238         -32.241           9.12.26         116.377         62.219         -410.238</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039        
  9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267
        116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - (G^+-H(T))/T         H*-H(T)         AtH         AG*         b           3.7.72         16.649         118.981         -112.39         -413.146         -43.146         IN           9.531         49.209         81.114         -6.381         -411.626         -913.841         IN           9.531         49.209         81.114         -6.381         -411.626         -319.841         IN           9.034         73.40         73.643         -417.892         -379.090         9.31.841         IN           8.776         96.34         73.643         1.223         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.34         13.56         -417.892         -378.392         -36.333         13.241         10.22.333         -372.140         9.32.243         13.56         -418.073         -243.244         9.32.242         13.56         -418.073         -249.244         9.32.242         13.56         -373.242         13.56         13.24.244         9.32.242         13.24.244</th></th></th></th></t<></th></t<></th></t<>  
   
  | C <sub>5</sub> S - (G <sup>+</sup> -H(T <sub>1</sub> ))/H         H <sup>+</sup> -H(T <sub>1</sub> ) Δ <sub>H</sub> Δ <sub>G</sub> 3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737         6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249 <t< th=""><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) A<sub>H</sub>         A<sub>G</sub>           3.7.72         16.649         188.81         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.832         -378.090           9.248         73.40         73.043         0.128         -417.832         -378.349           17.75         96.24         77.840         1.236         -417.832         -378.349           18.75         96.23         7.386         -423.45         -36.316           88.81         142.560         96.314         1.262         -32.341           99.128         113.853         116.737         56.018         -416.169         -28.240           99.128         115.379         116.379         -418.075         -32.341           98.128         116.279         41.176         -418.176         -24.240           99.25         116.379         60.18         -41.186         -24.240           95.24         115.35         60.018         -41.186         -32.241           95.25         117.548         110.229</th><th>C<sub>5</sub>         S - (G<sup>+</sup>H(T<sub>1</sub>))H         H<sup>+</sup>-H(T<sub>1</sub>) A<sub>H</sub>         A<sub>G</sub>           3.7.72         16.649         188.81         -11.239         -413.146         -43.146           3.7.72         16.649         18.811         -16.239         -411.625         -391.841           9.5.31         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         73.043         0.128         -417.832         -378.49           5.7.76         96.245         77.840         0.128         -417.832         -378.349           5.7.76         96.244         77.840         17.86         -427.312         -36.316           88.1.496         113.855         83.731         15.262         -427.312         -36.410           9.1.291         142.589         107.289         41.776         -418.879         -36.410           9.1.291         142.588         107.289         41.776         -418.879         -32.241           9.2.266         175.379         116.737         60.18         -416.169         -28.240           9.2.266         175.379         116.737         62.219         -412.418         -26.226           9.2.266         116.737</th><th>C<sub>5</sub>         S - (G<sup>+</sup>-H(T<sub>1</sub>))/H         H<sup>+</sup>-H(T<sub>1</sub>) Δ<sub>H</sub>         Δ<sub>G</sub>           3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737         6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249           <t< th=""><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           9.2.51         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         7.5042         0.128         -417.832         -378.349           5.7.76         96.324         7.386         -427.312         -378.349           8.8.17         19.203         87.17         23.631         -35.241           8.8.18         19.226         96.324         41.376         -41.332         -36.340           9.1.28         11.345         116.737         242.335         -36.410         -32.241           9.2.66         116.737         6.219         -41.146         -23.241         -32.241           9.2.66         116.737         6.219         -41.248         -32.241         -32.241           9.2.66         116.737         6.219         -41.248         -22.214         -22.214           9.2.66         116.737         6.219</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -391.341           9.0.13         75.042         0.12.39         -417.625         -378.49           9.10.23         73.402         0.12.39         -417.625         -378.49           9.10.24         73.042         0.12.39         -417.825         -378.49           9.12.10         13.835         33.332         15.262         -363.34           9.12.24         73.86         -422.345         -36.341           9.12.25         96.324         37.355         -419.233         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -32.241           9.12.26         116.377         60.18         -410.238         -32.241           9.12.26         116.377         62.219         -410.238         -32.241           9.12.26         116.377         62.219         -410.238</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340          
9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20 
       81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - (G^+-H(T))/T         H*-H(T)         AtH         AG*         b           3.7.72         16.649         118.981         -112.39         -413.146         -43.146         IN           9.531         49.209         81.114         -6.381         -411.626         -913.841         IN           9.531         49.209         81.114         -6.381         -411.626         -319.841         IN           9.034         73.40         73.643         -417.892         -379.090         9.31.841         IN           8.776         96.34         73.643         1.223         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.34         13.56         -417.892         -378.392         -36.333         13.241         10.22.333         -372.140         9.32.243         13.56         -418.073         -243.244         9.32.242         13.56         -418.073         -249.244         9.32.242         13.56         -373.242         13.56         13.24.244         9.32.242         13.24.244</th></th></th></th></t<></th></t<>  
   | C <sub>5</sub> S - (G <sup>+</sup> -H(T <sub>1</sub> ))/H         H <sup>+</sup> -H(T <sub>1</sub> ) A <sub>H</sub> A <sub>G</sub> 3.7.72         16.649         188.81         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.832         -378.090           9.248         73.40         73.043         0.128         -417.832         -378.349           17.75         96.24         77.840         1.236         -417.832         -378.349           18.75
        96.23         7.386         -423.45         -36.316           88.81         142.560         96.314         1.262         -32.341           99.128         113.853         116.737         56.018         -416.169         -28.240           99.128         115.379         116.379         -418.075         -32.341           98.128         116.279         41.176         -418.176         -24.240           99.25         116.379         60.18         -41.186         -24.240           95.24         115.35         60.018         -41.186         -32.241           95.25         117.548         110.229   
   
   
  | C <sub>5</sub> S - (G <sup>+</sup> H(T <sub>1</sub> ))H         H <sup>+</sup> -H(T <sub>1</sub> ) A <sub>H</sub> A <sub>G</sub> 3.7.72         16.649         188.81         -11.239         -413.146         -43.146           3.7.72         16.649         18.811         -16.239         -411.625         -391.841           9.5.31         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         73.043         0.128         -417.832         -378.49           5.7.76         96.245         77.840         0.128         -417.832         -378.349           5.7.76         96.244         77.840         17.86         -427.312         -36.316           88.1.496         113.855         83.731         15.262         -427.312         -36.410           9.1.291         142.589         107.289         41.776         -418.879         -36.410           9.1.291         142.588         107.289         41.776         -418.879         -32.241           9.2.266         175.379         116.737         60.18         -416.169         -28.240           9.2.266         175.379         116.737         62.219         -412.418         -26.226           9.2.266         116.737  
   
   | C <sub>5</sub> S - (G <sup>+</sup> -H(T <sub>1</sub> ))/H         H <sup>+</sup> -H(T <sub>1</sub> ) Δ <sub>H</sub> Δ <sub>G</sub> 3.7.72         16.649         18.881         -11.239         -413.146         -43.146           9.531         49.209         81.114         -16.239         -411.625         -391.841           9.543         75.042         0.         -417.852         -379.090           9.245         75.042         0.128         -417.852         -378.49           7.776         96.243         73.043         0.128         -473.352         -36.34           8.851         142.560         96.324         37.356         -422.35         -36.410           8.851         142.560         96.324         37.356         -41.346         -32.341           9.1291         143.853         115.202         -41.346         -36.410           9.1291         143.853         116.737         -41.346         -32.341           9.226         175.488         116.737      
  6.018         -416.169         -32.241           9.226         175.260         116.737         6.018         -41.16         -43.248           9.226         175.261         116.737         6.2119         -41.248         -43.249 <t< th=""><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           9.2.51         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         7.5042         0.128         -417.832         -378.349           5.7.76         96.324         7.386         -427.312         -378.349           8.8.17         19.203         87.17         23.631         -35.241           8.8.18         19.226         96.324         41.376         -41.332         -36.340           9.1.28         11.345         116.737         242.335         -36.410         -32.241           9.2.66         116.737         6.219         -41.146         -23.241         -32.241           9.2.66         116.737         6.219         -41.248         -32.241         -32.241           9.2.66         116.737         6.219         -41.248         -22.214         -22.214           9.2.66         116.737         6.219</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -391.341           9.0.13         75.042         0.12.39         -417.625         -378.49           9.10.23         73.402         0.12.39         -417.625         -378.49           9.10.24         73.042         0.12.39         -417.825         -378.49           9.12.10         13.835         33.332         15.262         -363.34           9.12.24         73.86         -422.345         -36.341           9.12.25         96.324         37.355         -419.233         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -32.241           9.12.26         116.377         60.18         -410.238         -32.241           9.12.26         116.377         62.219         -410.238         -32.241           9.12.26         116.377         62.219         -410.238</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090          
9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - (G^+-H(T))/T         H*-H(T)         AtH         AG*         b           3.7.72         16.649         118.981         -112.39         -413.146         -43.146         IN           9.531         49.209         81.114         -6.381         -411.626         -913.841         IN           9.531         49.209         81.114         -6.381         -411.626         -319.841         IN           9.034         73.40         73.643         -417.892         -379.090         9.31.841         IN           8.776         96.34         73.643         1.223         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.34         13.56         -417.892         -378.392         -36.333         13.241         10.22.333         -372.140         9.32.243         13.56    
    -418.073         -243.244         9.32.242         13.56         -418.073         -249.244         9.32.242         13.56         -373.242         13.56         13.24.244         9.32.242         13.24.244</th></th></th></th></t<>   
  | C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         D           9.2.51         49.209         81.114         -6.381         -417.632         -379.090           9.2.45         75.042         7.5042         0.128         -417.832         -378.349           5.7.76         96.324         7.386         -427.312         -378.349           8.8.17         19.203         87.17         23.631         -35.241           8.8.18         19.226         96.324         41.376         -41.332         -36.340           9.1.28         11.345         116.737         242.335         -36.410         -32.241           9.2.66         116.737         6.219         -41.146         -23.241         -32.241           9.2.66         116.737         6.219         -41.248         -32.241         -32.241           9.2.66         116.737         6.219         -41.248         -22.214         -22.214           9.2.66         116.737         6.219   
   
  | C;         S - [G^+H(T_1)]IT         H^-H(T_1) $\Delta H^+$ $\Delta G^*$ 3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -391.341           9.0.13         75.042         0.12.39         -417.625         -378.49           9.10.23         73.402         0.12.39         -417.625         -378.49           9.10.24         73.042         0.12.39         -417.825         -378.49           9.12.10         13.835         33.332         15.262         -363.34           9.12.24         73.86         -422.345         -36.341           9.12.25         96.324         37.355         -419.233         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -36.410           9.12.26         16.548         109.229         30.607         -419.239         -32.241           9.12.26         116.377         60.18         -410.238         -32.241           9.12.26         116.377         62.219         -410.238         -32.241           9.12.26         116.377         62.219         -410.238  | C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219 </th <th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85        
-36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th><th>C;         S -
[G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th><th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - (G^+-H(T))/T         H*-H(T)         AtH         AG*         b           3.7.72         16.649         118.981         -112.39         -413.146         -43.146         IN           9.531         49.209         81.114         -6.381         -411.626         -913.841         IN           9.531         49.209         81.114         -6.381         -411.626         -319.841         IN           9.034         73.40         73.643         -417.892         -379.090         9.31.841         IN           8.776         96.34         73.643         1.223         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.34         13.56         -417.892         -378.392         -36.333         13.241         10.22.333         -372.140         9.32.243         13.56         -418.073         -243.244         9.32.242         13.56         -418.073         -249.244         9.32.242         13.56         -373.242         13.56         13.24.244         9.32.242         13.24.244</th></th></th> | C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219 </th <th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th> <th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th> <th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th> <th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th> <th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776        
96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th> <th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128</th> <th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th> <th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th> <th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th> <th>C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224      <trr>         97.268         116.377         6</trr></th> <th>C;         S - [G^+H(T_1)]IT         H^-H(T_1)         <math>\Delta H^+</math> <math>\Delta G^*</math>           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21</th> <th>C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219<!--</th--><th>C;         S - (G^+-H(T))/T         H*-H(T)         AtH         AG*         b           3.7.72         16.649         118.981         -112.39         -413.146         -43.146         IN           9.531         49.209         81.114         -6.381         -411.626         -913.841         IN           9.531         49.209         81.114         -6.381         -411.626         -319.841         IN           9.034         73.40         73.643         -417.892         -379.090         9.31.841         IN           8.776         96.34         73.643         1.223         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.34         13.56         -417.892         -378.392         -36.333         13.241         10.22.333         -372.140         9.32.243         13.56         -418.073         -243.244         9.32.242         13.56         -418.073         -249.244         9.32.242         13.56         -373.242         13.56         13.24.244     
   9.32.242         13.24.244</th></th> | C;         S - [G^+H(T_1)]IT         H^-H(T_1) $\Delta H^+$ $\Delta G^*$ 3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21   | C;         S - [G^+H(T_1)]IT         H^-H(T_1) $\Delta H^+$ $\Delta G^*$ 3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21   | C;         S - [G^+H(T_1)]IT         H^-H(T_1) $\Delta H^+$ $\Delta G^*$ 3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21   | C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128   
  | C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128  
  | C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.655         -391.341           9.624         75.042         0.         -417.852         -378.090           9.10.10         75.042         0.128         -417.852         -378.49           8.776         96.245         77.840         0.128         -417.852         -378.49           8.776         96.244         77.840         0.128         -417.352         -36.343           8.777         96.244         77.86         -427.312         -30.341           8.851         14.2560         96.234         37.355         -419.239         -36.410           9.128         115.373         115.375         60.18         -410.239         -32.424           9.128         115.373         115.375         60.18         -410.238         -30.341           9.256         116.377         62.219         -410.238         -30.241           9.128         116.377         62.219         -410.248         -20.224           9.128  
   | C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224 <trr>         97.268         116.377         6</trr>  | C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239        
-413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224 <trr>         97.268         116.377         6</trr>   | C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224 <trr>         97.268         116.377         6</trr>   | C;         S - [G^+H(T_1)]IT         H^+H(T_1)         AH*         AG*           0, 0         0         DNFINITE         -11239         -413146         -43348           95.51         46.20         81.114         -6.381         -417.625         -391.341           96.24         75.04         75.042         0.         -417.825         -378.090           96.24         75.04         75.042         0.128         -417.825         -378.349           85.776         96.34         73.80         -6.381         -417.825         -378.349           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         73.86         -423.455         -36.340           85.776         96.34         37.35         -419.235         -36.410           88.851         142.580         96.34         41.376         -419.235         -36.410           99.266         116.377         62.219         -419.235         -36.410           97.266         116.377         62.219         -410.238         -30.234           97.267         116.377         62.219         -410.248         -26.224 <trr>         97.268         116.377         6</trr>   | C;         S - [G^+H(T_1)]IT         H^-H(T_1) $\Delta H^+$ $\Delta G^*$ 3.7.72         16.649         128.981         -112.39         -413.146         -43.348           9.531         49.209         81.114         -6.381         -417.625         -39.341           9.0.13         75.042         0.         -417.625         -378.090           9.24.5         75.042         0.128         -417.625         -378.349           8.57.6         95.344         73.643         -13.85         -36.349           8.57.7         95.34         73.86         -42.345         -36.341           8.57.8         113.85         95.317         21.356         -32.341           8.57.9         113.85         115.335         60.18         -41.328         -36.410           8.85.1         124.589         95.34         41.376         -419.239         -36.410           9.12.8         116.348         109.229         30.607         -419.239         -32.241           9.12.8         116.377         62.119         -419.239         -32.241           9.12.8         116.377         62.219         -419.239         -32.241           9.12.8         116.377         62.21   | C;         S - [G^+H(T_1)]IT         H*-HITT         AH*         AG*           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           3.7.72         16.649         128.381         -112.39         -413.146         -413.146         1           9.2.51         49.209         81.114         -6.381         -417.622         -379.039           9.2.43         75.042         0.128         -417.825         -378.349           57.76         96.324         73.861         -422.345         -36.340           8.8.19         12.503         73.86         -422.345         -36.340           9.1.28         113.853         115.262         -43.345         -36.340           9.1.29         113.853         116.737         242.335         -36.410           9.1.28         116.737         26.018         -410.828         -36.410           9.1.28         116.737         62.119         -410.828         -36.340           9.1.28         116.737         62.119         -410.828         -36.210           9.1.28         116.737         62.219         -410.828         -36.210           9.1.28         116.737         62.219 </th <th>C;         S - (G^+-H(T))/T         H*-H(T)         AtH         AG*         b           3.7.72         16.649         118.981         -112.39         -413.146         -43.146         IN           9.531         49.209         81.114         -6.381         -411.626         -913.841         IN           9.531         49.209         81.114         -6.381         -411.626         -319.841         IN           9.034         73.40         73.643         -417.892         -379.090         9.31.841         IN           8.776         96.34         73.643         1.223         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892     
   -379.090         9.32.84         13.56         -417.892         -379.090         9.32.34         13.56         -417.892         -378.392         -36.333         13.241         10.22.333         -372.140         9.32.243         13.56         -418.073         -243.244         9.32.242         13.56         -418.073         -249.244         9.32.242         13.56         -373.242         13.56         13.24.244         9.32.242         13.24.244</th> | C;         S - (G^+-H(T))/T         H*-H(T)         AtH         AG*         b           3.7.72         16.649         118.981         -112.39         -413.146         -43.146         IN           9.531         49.209         81.114         -6.381         -411.626         -913.841         IN           9.531         49.209         81.114         -6.381         -411.626         -319.841         IN           9.034         73.40         73.643         -417.892         -379.090         9.31.841         IN           8.776         96.34         73.643         1.223         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.84         13.56         -417.892         -379.090         9.32.34         13.56         -417.892         -378.392         -36.333         13.241         10.22.333         -372.140         9.32.243         13.56         -418.073         -243.244         9.32.242         13.56         -418.073         -249.244         9.32.242         13.56         -373.242         13.56         13.24.244         9.32.242         13.24.244   |
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| 0.         0.         NFINITE         -12399         -413.146           22.732         16.649         128.981         -112399         -413.146           69.103         75.042         13.144         -6.381         -417.625           69.245         75.470         75.043         0.123         -417.825           18.776         96.204         77.804         0.123         -417.825           81.776         96.204         77.804         0.123         -417.825           81.776         112.103         89.717         23.631         -423.455           81.881         142.560         96.324         37.365         -421.353           91.281         195.229         41.376         -419.829           92.266         116.377         60.018         -411.879           92.246         177.549         116.377         60.018         -411.879           95.256         177.549         116.377         60.018         -411.879           96.23         177.549         116.179         60.018         -411.879           96.24         175.37         112.316         97.148         97.629           97.62         176.40         10.23         -511.448         97  | 0.         0.         INFINITE         -12.399         -413.146         -413.146         -413.146         -40.348         9.3551         16.649         18.281         -11.233         -416.111         -40.348         9.0551         9.0551         -40.348         9.0551         9.0551         -40.348         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         9.0504         -40.3465         -35.353         9.0504         9.0504         9.0504         9.0504         -30.303         9.0504   
   
   
  | 0.         0.         INFINITE         -12.399         -413.146         -413.146         -413.146         -40.4348         9.5551         16.649         18.281         -11.233         -416.111         -40.4348         9.0551         15.042         0.         -417.625         -378.434         -379.040           65.103         75.042         75.043         0.128         -417.852         -378.849         -378.849         -378.849         -378.849         -378.849         -36.343         -35.043         -35.343   
   
   
  | 0.         0.         NFINITE         -12.399         -413.146         -413.146         -413.146         -40.438         9.5551         -40.4348         9.5551         -40.4348         9.5551         -40.4348         9.008         9.1114         -40.4348         9.008         9.0138         -417.625         -378.436  
   
   
   
  | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -403.438         95.51         -66.59         18.8981         -11233         -416.111         -404.348         -93.144         -93.14         -404.348         -93.144         -93.14         -63.81         -417.655         -391.341         -30.343         -30.341         -30.3   
   
   
   
  | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -403.438         95.51         -66.59         18.8981         -11233         -416.111         -404.348         -93.144         -93.14         -404.348         -93.144         -93.14         -63.81         -417.655         -391.341         -30.343         -30.341         -30.3   
   
   
  | 0.         0.         NFINITE         -12.399         -413.146         -413.146         -413.146         -40.438         9.5551         -40.4348         9.5551         -40.4348         9.5551         -40.4348         9.008         9.1114         -40.4348         9.008         9.0138         -417.625         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436         -378.436    
    -378.436        
   
   
   | 0.         0.         NFINITE         -12.399         -413.146         -413.146         -413.146         -40.438         9.5551         -40.4348         9.5551         -40.4348         9.5551         -40.4348         9.5551         -40.4348         9.5051         -40.4348         9.5051         9.5052         -11.233         -416.111         -40.4348         9.9050         9.5171         -7054         0.128         -417.852         -378.849<  
   
  | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -403.438         95.51         -66.59         18.8981         -11233         -416.111         -404.348         -93.144         -93.14         -404.348         -93.144         -93.14         -63.81         -417.655         -391.341         -30.343         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341         -30.341     
   -30.341         -30.3   
   
   
   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -403.438         9551         -6649         188.981         -11233         -416.111         -404.348         9551         -603.03         -503.04         -78.93         -717.61         -391.341         -903.34         -903.43         -903.43         -903.43         -903.43         -903.43         -903.43         -903.43         -903.43         -903.43         -17.85         -178.89         -903.43         -903.43         -17.85         -178.80         -903.43         -17.85         -178.84         -17.85         -178.84         -17.85         -178.40         -17.85         -178.40         -17.85         -178.40         -17.85         -178.40         -17.85         -178.41         -178.84         -178.25         -178.24         -178.25         -178.24         -178.25         -178.24         -178.25         -178.21  
   
   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -403.348         -403.348         -60.13         -50.20         -11233         -416.111         -403.348         -70.348         -60.13         -70.348         -7   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -403.438         95.51         -66.59         18.8981         -11233         -416.111         -403.438         -93.934         -93.9   
   
  | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -403.438         95.51         -66.59         18.8981         -11233         -416.111         -403.438         -93.934         -93.9   
   
                               | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -403.348         -403.348         -60.13         -50.20         -11233         -416.111         -403.348         -70.348         -60.13         -70.348         -7   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -403.348         -403.348         -60.13         -50.20         -11233         -416.111         -403.348         -70.348         -60.13         -70.348         -7   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -403.348         -403.348         -60.13         -50.20         -11233         -416.111         -403.348         -70.348         -60.13         -70.348         -7   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -60.03         -60.03         -75.04         -6381         -416.111         -403.348         -93.084         -93   
   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -60.03         -60.03         -75.04         -6381         -416.111         -403.348         -93.084         -93  
   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -60.03         -60.03         -75.04         -6381         -416.111         -403.348         -93.084         -93  
  | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -60.03         -63.81         -417.626         -31.348         -60.134         -60.134         -60.134         -60.134         -60.134         -60.134         -60.134         -70.204         -  | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146        
-413.146         -413.146         -403.348         -60.03         -63.81         -417.626         -31.348         -60.134         -60.134         -60.134         -60.134         -60.134         -60.134         -60.134         -70.204         -   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -60.03         -63.81         -417.626         -31.348         -60.134         -60.134         -60.134         -60.134         -60.134         -60.134         -60.134         -70.204         -   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -60.03         -63.81         -417.626         -31.348         -60.134         -60.134         -60.134         -60.134         -60.134         -60.134         -60.134         -70.204         -   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -413.146         -403.348         -403.348         -403.348         -60.13         -50.20         -11233         -416.111         -403.348         -70.348         -60.13         -70.348         -7   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -403.438         95.51         -66.59         18.8981         -11233         -416.111         -403.438         -93.934         -93.9  
   | 0.         0.         INFINITE         -12399         -413.146         -413.146         -413.146         -413.146         -403.438         9551         -6649         188.981         -11233         -416.111         -404.348         9551         -603.03         -503.04         -78.93         -717.61         -391.341         -903.34         -903.43         -903.43         -903.43         -903.43         -903.43         -903.43         -903.43         -903.43         -903.43         -17.85         -178.89         -903.43         -903.43         -17.85         -178.80         -903.43         -17.85         -178.84         -17.85         -178.84         -17.85         -178.40         -17.85         -178.40         -17.85         -178.40         -17.85         -178.40         -17.85         -178.41         -178.84         -178.25         -178.24         -178.25         -178.24         -178.25         -178.24         -178.25         -178.21   |
| 92.53         49.20         81.114         -0.381         -417.62           92.43         75.40         81.114         -0.381         -417.62           92.43         75.40         13.6         -423.45           85.76         13.63         13.24         -423.45           88.81         142.56         96.24         13.26         -423.11           88.77         13.63         -423.45         142.56         -419.82           92.26         162.48         10.22         413.76         -419.82           92.26         177.39         115.35         60.67         -418.07           95.26         177.59         115.35         60.67         -418.07           95.26         177.59         115.35         60.67         -418.07           95.26         177.59         116.73         63.97         -418.07           95.26         177.59         116.73         63.97         -418.07           95.27         176.46         116.73         63.97         -418.07           95.28         177.41         87.58         60.03         -416.16           96.23         172.51         112.71         -23.14         87.14           98.14<  | 95.201         45.429         81.14         -6.581         -417.626         -391.841           96.213         75.02         0.13         -417.82         -379.090           96.243         75.04         0.12         -417.83         -378.00           87.77         96.344         778.40         773.86         -417.83         -375.34           85.779         129.103         89.717         23.631         -423.55         -36.34           88.81         142.860         96.324         43.246         -417.33         -36.410           88.17         12.526         162.89         41.376         -419.32         -36.410           91.291         162.548         192.259         50.607         -418.075         -32.240           94.918         175.373         116.737         62.219         -416.169         -28.210           97.229         116.737         62.219         -416.169         -28.210           97.230         116.737         62.219         -416.169         -28.210           97.231         116.737         62.219         -416.169         -28.210           97.232         116.737         62.219         -416.169         -28.210           97.232  
   
   
  | 95.201         49.209         81.114         -0.581         -417.626         -9318.41           96.210         75.042         0.         -417.825         -378.00           96.245         75.042         0.         -417.835         -378.00           87.776         96.324         73.86         -423.455         -36.363           85.706         129.103         89.717         23.631         -422.353         -33.641           88.851         142.560         96.324         37.355         -419.323         -36.410           99.126         165.488         109.229         35.601         -410.828         -32.141           99.1276         165.488         109.229         30.607         -418.075         -32.141           99.1276         115.377         66.219         -416.169         -28.240           95.264         175.49         116.737         63.977         -418.075         -28.240           95.265         179.266         116.737         63.977         -418.076         -28.240           97.629         186.205         127.111         81.240         -41.248         -42.233           97.627         186.205         113.301         10.278         -88.116 <th< td=""><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.103         75.042         0.18         -417.832         -178.00           96.245         75.043         0.138         -417.835         -178.00           87.776         96.344         77.849         -17.345         -73.436         -73.436         -73.436           88.709         199.103         89.717         23.631         -422.345         -35.340           99.256         154.589         102.289         41.376         -419.233         -30.410           99.126         165.488         100.229         30.607         -418.033         -32.142           99.26         165.489         107.289         41.376         -419.233         -30.214           95.26         175.49         116.737         62.219         -410.238         -30.243           97.62         186.205         116.377         63.977         -418.039         -26.224           97.62         175.40         116.377         63.977         -418.037         -249.215           98.14         198.103         129.516         97.188         TRANSITION           98.26         119.235         112.339         <t< td=""><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         &lt;</td><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         &lt;</td><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.103         75.042         0.18         -417.832         -178.00           96.245         75.043         0.138         -417.835         -178.00           87.776         96.344         77.849         -17.345         -73.436         -73.436         -73.436           88.709         199.103         89.717         23.631         -422.345         -35.340           99.256         154.589         102.289         41.376         -419.233         -30.410           99.126         165.488         100.229         30.607         -418.033         -32.142           99.26         165.489         107.289         41.376         -419.233         -30.214           95.26         175.49         116.737         62.219         -410.238         -30.243           97.62         186.205         116.377         63.977         -418.039         -26.224           97.62         175.40         116.377         63.977         -418.037         -249.215           98.14         198.103         129.516         97.188         TRANSITION           98.26         119.235         112.339         <t< td=""><td>95.201         49.209         81.114         -0.581         -417,626         -918,41           96.103         75.042         0.         -417,826         -318,40           96.245         75.043         0.138         -417,835         -378,00           87.776         96.344         73.84         -423,435         -36,343           88.776         193.103         89.717         23.631         -422,345         -36,343           88.776         192.103         89.717         23.631         -422,345         -36,340           99.128         165.458         102.259         92.34         41.376         -419,233         -38,410           99.128         165.478         107.259         50.601         -416,139         -32,141           99.226         175.49         116,377         62.219         -419,233         -38,204           95.264         175.49         -410,233         -32,424         93,244         17.404         -410,233         -32,424           97.629         186.205         116,377         62,219         -410,238         -32,424           97.629         187.626         116,377         63.977         -418,430         172,432           98.14         1</td><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977 
       -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         &lt;</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35        
-36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39        
-41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""></td<></td></th<></td></th<></td></th<></td></td<></td></t<></td></t<></td></th<> | 95.201         49.209         81.114         -6.581         -417.632         -191.84           96.103         75.042         0.18         -417.832         -178.00           96.245         75.043         0.138         -417.835         -178.00           87.776         96.344         77.849         -17.345         -73.436         -73.436         -73.436           88.709         199.103         89.717         23.631         -422.345         -35.340           99.256         154.589         102.289         41.376         -419.233         -30.410           99.126         165.488         100.229         30.607         -418.033         -32.142           99.26         165.489         107.289         41.376         -419.233         -30.214           95.26         175.49         116.737         62.219         -410.238         -30.243           97.62         186.205         116.377         63.977         -418.039         -26.224           97.62         175.40         116.377         63.977         -418.037         -249.215           98.14         198.103         129.516         97.188         TRANSITION           98.26         119.235         112.339 <t< td=""><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         &lt;</td><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         &lt;</td><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.103         75.042         0.18         -417.832         -178.00           96.245         75.043         0.138         -417.835         -178.00           87.776         96.344         77.849         -17.345         -73.436         -73.436         -73.436           88.709         199.103         89.717         23.631         -422.345         -35.340           99.256         154.589         102.289         41.376         -419.233         -30.410           99.126         165.488         100.229         30.607         -418.033         -32.142           99.26         165.489         107.289         41.376         -419.233         -30.214           95.26         175.49         116.737         62.219         -410.238         -30.243           97.62         186.205         116.377         63.977         -418.039         -26.224           97.62         175.40         116.377         63.977         -418.037         -249.215           98.14         198.103         129.516         97.188         TRANSITION           98.26         119.235         112.339         <t< td=""><td>95.201         49.209         81.114         -0.581         -417,626         -918,41           96.103         75.042         0.         -417,826         -318,40           96.245         75.043         0.138         -417,835         -378,00           87.776         96.344         73.84         -423,435         -36,343           88.776         193.103         89.717         23.631         -422,345         -36,343           88.776         192.103         89.717         23.631         -422,345         -36,340           99.128         165.458         102.259         92.34         41.376         -419,233         -38,410           99.128         165.478         107.259         50.601         -416,139         -32,141           99.226         175.49         116,377         62.219         -419,233         -38,204           95.264         175.49         -410,233         -32,424         93,244         17.404         -410,233         -32,424           97.629         186.205         116,377         62,219         -410,238         -32,424           97.629         187.626         116,377         63.977         -418,430         172,432           98.14         1</td><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         &lt;</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717        
23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29      
  177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""></td<></td></th<></td></th<></td></th<></td></td<></td></t<></td></t<>   
   
  | 95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         <   
   
   
   
  | 95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         <   
   
   
  | 95.201         49.209         81.114         -6.581         -417.632         -191.84           96.103         75.042         0.18         -417.832         -178.00           96.245         75.043         0.138         -417.835         -178.00           87.776         96.344         77.849         -17.345         -73.436         -73.436         -73.436           88.709         199.103         89.717         23.631         -422.345         -35.340           99.256         154.589         102.289         41.376         -419.233         -30.410           99.126         165.488   
     100.229         30.607         -418.033         -32.142           99.26         165.489         107.289         41.376         -419.233         -30.214           95.26         175.49         116.737         62.219         -410.238         -30.243           97.62         186.205         116.377         63.977         -418.039         -26.224           97.62         175.40         116.377         63.977         -418.037         -249.215           98.14         198.103         129.516         97.188         TRANSITION           98.26         119.235         112.339 <t< td=""><td>95.201         49.209         81.114         -0.581         -417,626         -918,41           96.103         75.042         0.         -417,826         -318,40           96.245         75.043         0.138         -417,835         -378,00           87.776         96.344         73.84         -423,435         -36,343           88.776         193.103         89.717         23.631         -422,345         -36,343           88.776         192.103         89.717         23.631         -422,345         -36,340           99.128         165.458         102.259         92.34         41.376         -419,233         -38,410           99.128         165.478         107.259         50.601         -416,139         -32,141           99.226         175.49         116,377         62.219         -419,233         -38,204           95.264         175.49         -410,233         -32,424         93,244         17.404         -410,233         -32,424           97.629         186.205         116,377         62,219         -410,238         -32,424           97.629         187.626         116,377         63.977         -418,430         172,432           98.14         1</td><td>95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737         63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         &lt;</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14        
-6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737        
62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""></td<></td></th<></td></th<></td></th<></td></td<></td></t<>  
  | 95.201         49.209         81.114         -0.581         -417,626         -918,41           96.103         75.042         0.         -417,826         -318,40           96.245         75.043         0.138         -417,835         -378,00           87.776         96.344         73.84         -423,435         -36,343           88.776         193.103         89.717         23.631         -422,345         -36,343           88.776         192.103         89.717         23.631         -422,345         -36,340           99.128         165.458         102.259         92.34         41.376         -419,233         -38,410           99.128         165.478         107.259         50.601         -416,139         -32,141           99.226         175.49         116,377         62.219         -419,233         -38,204           95.264         175.49         -410,233         -32,424         93,244         17.404         -410,233         -32,424           97.629         186.205         116,377         62,219         -410,238         -32,424           97.629         187.626         116,377         63.977         -418,430         172,432           98.14         1   
   
   | 95.201         49.209         81.114         -6.581         -417.632         -191.84           96.213         75.042         0.         -417.832         -378.090           96.245         75.043         0.138         -417.835         -378.090           85.776         96.324         77.840         -423.455         -365.364           85.709         199.103         89.717         23.631         -423.35         -36.410           85.709         192.103         89.717         23.631         -422.35         -36.410           99.126         165.488         102.289         41.376         -419.833         -30.411           99.126         165.488         102.289         41.376         -419.833         -30.410           95.264         175.49         116.737         62.119         -410.833         -30.214           95.265         179.266         116.737         62.219         -410.438         -30.214           97.629         179.266         116.737
        63.977         -413.488         -40.215           98.140         198.103         129.516         85.264         -40.348         -40.211           98.142         179.256         116.377         62.219         <  
   
   
  | 95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739 <td< td=""><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000         
 96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26  
      175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""></td<></td></th<></td></th<></td></th<></td></td<> | 95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23<   | 95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION  
   
   | 95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION  
   
  | 95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23<   | 95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23<   | 95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23<   | 95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40 <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344  
      73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""></td<></td></th<></td></th<></td></th<> | 95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40 <th< td=""><td>95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242      
    97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40         <th< td=""><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""></td<></td></th<></td></th<> | 95.201         45.429         81.14         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.626         -379.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -423.435         -36.336           85.706         129.103         89.717         23.631         -423.35         -36.410           88.851         142.560         96.324         32.36         -413.33         -32.141           94.918         175.49         116.737         62.219         -416.169         -29.240           95.265         175.49         116.737         62.219         -416.169         -29.242           95.265         175.49         116.737         62.219         -416.169         -29.220           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         175.40         116.737         63.977         -416.169         -29.242           97.629         176.231         417.418         1.26.118         1.26.118         1.24.118           97.629         176.231         173.31         173.40 <th< td=""><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103    
    89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240</td><td>95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23&lt;</td><td>95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION</td><td>95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739         <td< td=""></td<></td></th<> | 95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240   | 95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042        
0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240  | 95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240  | 95.201         45.429         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.0         -417.826         -379.090           96.245         75.043         0.138         -417.835         -378.00           85.706         96.344         73.841         -423.455         -36.346           88.709         129.103         89.717         23.631         -423.35         -36.410           88.81         142.560         96.324         32.36         -413.33         -32.141           94.91         175.79         116.737         60.18         -416.169         -29.204           95.26         165.737         62.219         -416.169         -29.204           95.26         175.49         116.737         62.219         -416.169         -29.224           95.26         175.49         116.737         63.977         -41.2418         -78.211           96.27         175.29         116.737         63.977         -41.2418         -42.231         -29.224           97.28         176.29         177.31         11.340         -60.318         -42.418         17.448         17.448           96.29         179.25         112.240  | 95.201         45.429         81.14         -6.581         -417.636         -591.341           96.213         75.042         0.13         -417.835         -73.000           96.245         75.043         0.138         -417.835         -73.000           85.776         96.324         77.840         17.385         -73.435         -73.03           85.776         15.043         17.382         -47.345         -73.631         -73.03           85.777         15.250         -42.345         -35.341         -35.041         -35.041           88.851         14.2560         96.324         41.376         -41.333         -32.141           94.918         17.549         116.737         62.219         -416.169         -29.224           95.264         17.540         116.737         62.219         -410.438         -32.424           95.255         179.266         116.737         63.977         -41.2418         -78.4214           97.629         188.204         113.34         112.34         112.34         112.34         112.34           98.14         198.103         129.245         113.29         -41.448         178.48110N           98.24         13.352         113.23<   | 95.201         49.209         81.144         -6.581         -417.626         -591.341           96.213         75.042         0.18         -417.826         -378.000           96.245         75.043         0.138         -417.835         -378.000           85.776         96.324         73.841         -15.262         -423.415         -35.841           85.709         129.103         89.717         23.631         -422.335         -35.410           88.871         145.89         162.89         413.76         -419.333         -35.411           99.126         165.438         102.29         30.601         -419.233         -35.411           99.127         15.373         60.18         -419.233         -35.411           95.264         175.49         115.337         60.18         -419.234         -32.424           95.265         179.266         116.737         62.219         -418.430         -289.241           97.629         186.203         117.341         -41.448         TRANSTITION           97.629         194.645         113.340         -41.2418         -267.236           98.10         195.351         112.39         -41.448         TRANSTITION   
  | 95.201         49.209         81.144         -6.581         -417.632         -319.44           96.213         75.042         0.         -417.832         -378.00           96.245         75.043         0.138         -417.835         -378.00           85.776         96.324         73.841         -423.455         -36.36           85.709         199.103         89.717         23.631         -423.35         -36.410           88.851         145.289         96.324         32.356         -413.33         -36.410           99.126         165.488         109.229         30.607         -418.03         -32.141           94.918         175.490         116.737         62.219         -419.239         -30.214           95.264         175.490         116.737         62.219         -419.239         -30.224           97.625         176.276         116.737         63.977         -419.239         -30.224           97.629         186.205         116.337         63.977         -413.488         170.046           98.140         198.103         129.246         112.39         -41.2418         -26.224           98.140         198.103         139.245         112.739 <td< td=""></td<>   |
| 69.243         75.470         75.043         0.128         -417.85           87.776         86.204         77.804         0.128         -417.85           87.776         113.232         173.26         -423.45           88.851         142.60         86.24         37.36         -423.45           91.26         142.60         96.24         37.36         -423.53           91.26         162.63         10.229         41.376         -419.82           92.26         175.39         116.375         60.018         -419.82           95.26         177.39         116.377         60.018         -416.169           95.26         177.29         116.377         60.018         -416.169           95.26         177.29         116.377         60.018         -416.169           95.27         176.67         116.177         63.977         -416.169           96.23         196.60         116.177         63.977         -416.169           98.18         112.91         112.118         81.040         -60.919           98.18         112.92         112.719         -58.116           98.80         119.459         112.719         -58.116  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         778.40         7.2186         -421.465         -356.343           88.787         125.60         85.374         27.631         -422.455         -356.340           88.878         142.560         96.234         27.26         -421.353         -336.410           91.281         143.560         102.869         41.376         -411.353         -336.410           92.266         165.478         102.229         60.018         -411.679         -292.244           95.264         175.773         115.335         60.219         -416.079         -292.424           95.264         175.773         115.375         60.219         -412.418         -282.215           95.265         176.771         81.040         -60.3917         -284.2116         -287.116           97.629         194.645         127.111         81.040         -60.3917         -284.2116           97.629         195.245         127.316         97.188         -281.147         -295.211           98.784         198.245         13.231         10.2786         -584.147         -295.211           98   
   
   
  | 69.245         75.470         75.043         0.123         -417.983         -378.89           81.776         96.294         77.830         1736         -345.365         -356.343           81.776         96.294         77.830         -421.456         -356.341         -356.841           88.81         142.560         96.214         27.851         -422.535         -336.410           91.291         164.569         102.869         41.376         -421.333         -336.410           91.201         164.579         102.869         41.376         -415.273         -306.31           95.264         175.373         115.335         60.018         -1416.169         -229.244           95.264         175.373         11.340         -416.169         -229.244           95.265         116.737         62.219         ————————————————————————————————————   
   
   
  | 69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -365.343           8.5.709         129.103         89.717         22.631         -422.455         -35.333           8.5.709         129.103         89.717         22.631         -422.553         -35.641           9.1.281         145.289         96.324         41.376         -418.273         -35.641           9.1.286         165.488         102.869         41.376         -418.273         -30.007           9.240         177.549         116.377         62.219         -418.075         -29.224           9.256         175.256         116.377         62.219         -418.418         -280.341           9.246         177.111         81.040         -603.913         -280.215           9.8.14         198.103         129.516         85.264         -412.418         -267.206           9.8.14         198.103         129.243         112.719         -581.116         -280.311           9.8.14         198.103         139.243         112.716         -527.206         -527.106           9.8.80         219.459 </td <td>69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -355.343           8.5.779         129.103         89.717         22.631         -422.455         -355.343           8.8.51         142.560         96.324         3.256         -431.33         -356.410           9.1.281         142.589         3.245         -419.823         -308.07           9.266         165.488         102.899         41.376         -419.823         -308.07           9.266         165.48         102.899         41.376         -419.823         -308.07           9.2408         17.273         60.018         -416.169         -280.244           9.2456         116.737         62.219         -415.418         -280.244           9.456.5         17.111         81.040         -603.913         -280.215           9.814         198.103         129.216         82.264         -412.418         -267.206           9.827         110.240         10.2718         -32.414         -192.118         -280.211           9.814         198.403         112.719         -281.106         -280.218</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -355.343           8.5.779         129.103         89.717         22.631         -422.455         -355.343           8.8.51         142.560         96.324         3.256         -431.33         -356.410           9.1.281         142.589         3.245         -419.823         -308.07           9.266         165.488         102.899         41.376         -419.823         -308.07           9.266         165.48         102.899         41.376         -419.823         -308.07           9.2408         17.273         60.018         -416.169         -280.244           9.2456         116.737         62.219         -415.418         -280.244           9.456.5         17.111         81.040         -603.913         -280.215           9.814         198.103         129.216         82.264         -412.418         -267.206           9.827         110.240         10.2718         -32.414         -192.118         -280.211           9.814         198.403         112.719         -281.106         -280.218</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -365.343           8.5.709         129.103         89.717         22.631         -422.455         -35.333           8.5.709         129.103         89.717         22.631         -422.553         -35.641           9.1.281         145.289         96.324         41.376         -418.273         -35.641           9.1.286         165.488         102.869         41.376         -418.273         -30.007           9.240         177.549         116.377         62.219         -418.075         -29.224           9.256         175.256         116.377         62.219         -418.418         -280.341           9.246         177.111         81.040         -603.913         -280.215           9.8.14         198.103         129.516         85.264         -412.418         -267.206           9.8.14         198.103         129.243         112.719         -581.116         -280.311           9.8.14         198.103         139.243         112.716         -527.206         -527.106           9.8.80         219.459<!--</td--><td>69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         778.40         7386         -427.456         -365.343           85.779         129.103         89.717         22.631         -422.455         -35.333           85.779         129.103         89.717         22.631         -422.553         -35.641           88.851         142.569         96.324         41.376         -418.233         -30.007           91.291         115.359         60.018         -419.823         -30.007           95.264         175.79         115.355         60.018         -416.169         -20.204           95.265         177.264         41.376         62.219         -418.417         -20.204           95.265         179.266         116.737         62.219         -412.418         -267.206           97.27         17.111         81.040         -603.913         -267.206           97.28         17.27         82.244         -882.116         -277.206           97.28         112.039         112.719         -287.116         -192.118           97.29         112.219         112.218         -287.116         -192.118     <td>69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -355.343           8.5.779         129.103         89.717         22.631         -422.455         -355.343           8.8.51         142.560         96.324         3.256         -431.33         -356.410           9.1.281         142.589         3.245         -419.823         -308.07           9.266         165.488         102.899         41.376         -419.823         -308.07           9.266         165.48         102.899         41.376         -419.823         -308.07           9.2408         17.273         60.018         -416.169         -280.244           9.2456         116.737         62.219         -415.418         -280.244           9.456.5         17.111         81.040         -603.913         -280.215           9.814         198.103         129.216         82.264         -412.418         -267.206           9.827         110.240         10.2718         -32.414         -192.118         -280.211           9.814         198.403         112.719         -281.106         -280.218</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.456         -356.336           85.779         129.103         89.717         22.631         -422.455         -356.336           85.779         129.103         89.717         22.631         -422.553         -356.410           88.851         142.580         96.324         41.376         -41.333         -306.07         -41.333         -306.07           94.918         175.279         116.537         60.018         -416.169         -280.244           95.266         177.266         116.337         62.219         -418.075         -292.204           95.266         177.266         116.337         62.219         -412.418         -280.241           97.629         177.111         81.040         -603.913         -280.211           98.140         198.103         112.340         -142.418         -280.211           98.786         119.459         13.931         112.719         -281.144         -127.138           98.787         110.4600         25.3773         13.92.43         113.239         -143.448         110.400</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580
        96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111     
   81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.456         -356.336           85.779         129.103         89.717         22.631         -422.455         -356.336           85.779         129.103         89.717         22.631         -422.553         -356.410           88.851         142.580         96.324         41.376         -41.333         -306.07         -41.333         -306.07           94.918         175.279         116.537         60.018         -416.169         -280.244           95.266         177.266         116.337         62.219         -418.075         -292.204           95.266         177.266         116.337         62.219         -412.418         -280.241           97.629         177.111         81.040         -603.913         -280.211           98.140         198.103         112.340         -142.418         -280.211           98.786         119.459         13.931         112.719         -281.144         -127.138           98.787         110.4600         25.3773         13.92.43         113.239         -143.448         110.400</td></td></td>   
   
  | 69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -355.343           8.5.779         129.103         89.717         22.631         -422.455         -355.343           8.8.51         142.560         96.324         3.256         -431.33         -356.410           9.1.281         142.589         3.245         -419.823         -308.07           9.266         165.488         102.899         41.376         -419.823         -308.07           9.266         165.48         102.899         41.376         -419.823         -308.07           9.2408         17.273         60.018         -416.169         -280.244           9.2456         116.737         62.219         -415.418         -280.244           9.456.5         17.111         81.040         -603.913         -280.215           9.814         198.103         129.216         82.264         -412.418         -267.206           9.827         110.240         10.2718         -32.414         -192.118         -280.211           9.814         198.403         112.719         -281.106         -280.218   
   
   
   
  | 69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -355.343           8.5.779         129.103         89.717         22.631         -422.455         -355.343           8.8.51         142.560         96.324         3.256         -431.33         -356.410           9.1.281         142.589         3.245         -419.823         -308.07           9.266         165.488         102.899         41.376         -419.823         -308.07           9.266         165.48         102.899         41.376         -419.823         -308.07           9.2408         17.273         60.018         -416.169         -280.244           9.2456         116.737         62.219         -415.418         -280.244           9.456.5         17.111         81.040         -603.913         -280.215           9.814         198.103         129.216         82.264         -412.418         -267.206           9.827         110.240         10.2718         -32.414         -192.118         -280.211           9.814         198.403         112.719         -281.106         -280.218   
   
   
  | 69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -365.343           8.5.709         129.103         89.717         22.631         -422.455         -35.333           8.5.709         129.103         89.717         22.631         -422.553         -35.641           9.1.281         145.289         96.324         41.376         -418.273         -35.641           9.1.286         165.488         102.869         41.376         -418.273         -30.007           9.240        
177.549         116.377         62.219         -418.075         -29.224           9.256         175.256         116.377         62.219         -418.418         -280.341           9.246         177.111         81.040         -603.913         -280.215           9.8.14         198.103         129.516         85.264         -412.418         -267.206           9.8.14         198.103         129.243         112.719         -581.116         -280.311           9.8.14         198.103         139.243         112.716         -527.206         -527.106           9.8.80         219.459 </td <td>69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         778.40         7386         -427.456         -365.343           85.779         129.103         89.717         22.631         -422.455         -35.333           85.779         129.103         89.717         22.631         -422.553         -35.641           88.851         142.569         96.324         41.376         -418.233         -30.007           91.291         115.359         60.018         -419.823         -30.007           95.264         175.79         115.355         60.018         -416.169         -20.204           95.265         177.264         41.376         62.219         -418.417         -20.204           95.265         179.266         116.737         62.219         -412.418         -267.206           97.27         17.111         81.040         -603.913         -267.206           97.28         17.27         82.244         -882.116         -277.206           97.28         112.039         112.719         -287.116         -192.118           97.29         112.219         112.218         -287.116         -192.118     <td>69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -355.343           8.5.779         129.103         89.717         22.631         -422.455         -355.343           8.8.51         142.560         96.324         3.256         -431.33         -356.410           9.1.281         142.589         3.245         -419.823         -308.07           9.266         165.488         102.899         41.376         -419.823         -308.07           9.266         165.48         102.899         41.376         -419.823         -308.07           9.2408         17.273         60.018         -416.169         -280.244           9.2456         116.737         62.219         -415.418         -280.244           9.456.5         17.111         81.040         -603.913         -280.215           9.814         198.103         129.216         82.264         -412.418         -267.206           9.827         110.240         10.2718         -32.414         -192.118         -280.211           9.814         198.403         112.719         -281.106         -280.218</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.456         -356.336           85.779         129.103         89.717         22.631         -422.455         -356.336           85.779         129.103         89.717         22.631         -422.553         -356.410           88.851         142.580         96.324         41.376         -41.333         -306.07         -41.333         -306.07           94.918         175.279         116.537         60.018         -416.169         -280.244           95.266         177.266         116.337         62.219         -418.075         -292.204           95.266         177.266         116.337         62.219         -412.418         -280.241           97.629         177.111         81.040         -603.913         -280.211           98.140         198.103         112.340         -142.418         -280.211           98.786         119.459         13.931         112.719         -281.144         -127.138           98.787         110.4600         25.3773         13.92.43         113.239         -143.448         110.400</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719        
-881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219        
-418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td><td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.456         -356.336           85.779         129.103         89.717         22.631         -422.455         -356.336           85.779         129.103         89.717         22.631         -422.553         -356.410           88.851         142.580         96.324         41.376         -41.333         -306.07         -41.333         -306.07           94.918         175.279         116.537         60.018         -416.169         -280.244           95.266         177.266         116.337         62.219         -418.075         -292.204           95.266         177.266         116.337         62.219         -412.418         -280.241           97.629         177.111         81.040         -603.913         -280.211           98.140         198.103         112.340         -142.418         -280.211           98.786         119.459         13.931         112.719         -281.144         -127.138           98.787         110.4600         25.3773         13.92.43         113.239         -143.448         110.400</td></td>   
  | 69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         778.40         7386         -427.456         -365.343           85.779         129.103         89.717         22.631         -422.455         -35.333           85.779         129.103         89.717         22.631         -422.553         -35.641           88.851         142.569         96.324         41.376         -418.233         -30.007           91.291         115.359         60.018         -419.823         -30.007           95.264         175.79         115.355         60.018         -416.169         -20.204           95.265         177.264         41.376         62.219         -418.417         -20.204           95.265         179.266         116.737         62.219         -412.418         -267.206           97.27         17.111         81.040         -603.913         -267.206           97.28         17.27         82.244         -882.116         -277.206           97.28         112.039         112.719         -287.116         -192.118           97.29         112.219         112.218         -287.116         -192.118 <td>69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -355.343           8.5.779         129.103         89.717         22.631         -422.455         -355.343           8.8.51         142.560         96.324         3.256         -431.33         -356.410           9.1.281         142.589         3.245         -419.823         -308.07           9.266         165.488         102.899         41.376         -419.823         -308.07           9.266         165.48         102.899         41.376         -419.823         -308.07           9.2408         17.273         60.018         -416.169         -280.244           9.2456         116.737         62.219         -415.418         -280.244           9.456.5         17.111         81.040         -603.913         -280.215           9.814         198.103         129.216         82.264         -412.418         -267.206           9.827         110.240         10.2718         -32.414         -192.118         -280.211           9.814         198.403         112.719         -281.106         -280.218</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.456         -356.336           85.779         129.103         89.717         22.631         -422.455         -356.336           85.779         129.103         89.717         22.631         -422.553         -356.410           88.851         142.580         96.324         41.376         -41.333         -306.07         -41.333         -306.07           94.918         175.279         116.537         60.018         -416.169         -280.244           95.266         177.266         116.337         62.219         -418.075         -292.204           95.266         177.266         116.337         62.219         -412.418         -280.241           97.629         177.111         81.040         -603.913         -280.211           98.140       
 198.103         112.340         -142.418         -280.211           98.786         119.459         13.931         112.719         -281.144         -127.138           98.787         110.4600         25.3773         13.92.43         113.239         -143.448         110.400</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781        
125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773</td> <td>69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.456         -356.336           85.779         129.103         89.717         22.631         -422.455         -356.336           85.779         129.103         89.717         22.631         -422.553         -356.410           88.851         142.580         96.324         41.376         -41.333         -306.07         -41.333         -306.07           94.918         175.279         116.537         60.018         -416.169         -280.244           95.266         177.266         116.337         62.219         -418.075         -292.204           95.266         177.266         116.337         62.219         -412.418         -280.241           97.629         177.111         81.040         -603.913         -280.211           98.140         198.103         112.340         -142.418         -280.211           98.786         119.459         13.931         112.719         -281.144         -127.138           98.787         110.4600         25.3773         13.92.43         113.239         -143.448         110.400</td> | 69.245         75.470         75.043         0.128         -417.983         -378.89           7.776         96.294         77.840         7.386         -427.456         -355.343           8.5.779         129.103         89.717         22.631         -422.455         -355.343           8.8.51         142.560         96.324         3.256         -431.33         -356.410           9.1.281         142.589         3.245         -419.823         -308.07           9.266         165.488         102.899         41.376         -419.823         -308.07           9.266         165.48         102.899         41.376         -419.823         -308.07           9.2408         17.273         60.018         -416.169         -280.244           9.2456         116.737         62.219         -415.418         -280.244           9.456.5         17.111         81.040         -603.913         -280.215           9.814         198.103         129.216
        82.264         -412.418         -267.206           9.827         110.240         10.2718         -32.414         -192.118         -280.211           9.814         198.403         112.719         -281.106         -280.218   
   
   
   | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.456         -356.336           85.779         129.103         89.717         22.631         -422.455         -356.336           85.779         129.103         89.717         22.631         -422.553         -356.410           88.851         142.580         96.324         41.376         -41.333         -306.07         -41.333         -306.07           94.918         175.279         116.537         60.018         -416.169         -280.244           95.266         177.266         116.337         62.219         -418.075         -292.204           95.266         177.266         116.337         62.219         -412.418         -280.241           97.629         177.111         81.040         -603.913         -280.211           98.140         198.103         112.340         -142.418         -280.211           98.786         119.459         13.931         112.719         -281.144         -127.138           98.787         110.4600         25.3773         13.92.43         113.239         -143.448         110.400   
   
   | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773   
   
  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773   
   
   | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285  
   | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285   
   | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         -43.33         -336.410         -336.410           91.281         142.89         96.324         -43.35         -336.410         -336.410           91.286         165.48         102.89         41.376         -41.333         -336.410           92.466         115.348         102.89         41.376         -418.33         -336.410           95.266         177.373         116.377         62.219         -416.169         -280.241           95.256         177.256         116.377         62.219         -412.418         -280.211           97.629         170.285         116.377         62.219         -412.418         -280.211           97.629         170.285         116.179         62.219         -16.169         -280.211           97.629         170.285         112.410         -280.211         -280.211           97.629         170.285   
  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294
        77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178   | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178   | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         88.717         22.631         -422.45         -356.363           85.789         15.269         96.324         -423.43         -356.410         -356.363           91.281         16.286         96.324         -43.35         -36.40         -356.363           92.266         16.548         102.89         41.376         -41.333         -38.40           95.266         116.737         60.219         -418.03         -38.00           95.266         177.311         11.340         -412.418         -280.241           95.276         177.311         81.040         -60.311         -280.211           97.629         176.269         11.340         -412.418         -280.211           97.629         176.271         81.040         -60.311         -280.211           97.629         177.111         81.040         -60.311         -280.211           97.629         178.31         112.340         -161.040         -280.211           97.629         178   | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7.386         -423.45         -356.363           85.779         129.103         89.717         22.631         -422.45         -356.363           85.781         125.69         96.324         3.256         -431.33         -336.410           91.281         142.89         96.324         41.345         -302.134         -302.144           95.266         165.488         102.89         41.376         -418.33         -302.104           95.266         175.266         116.737         62.219         -418.075         -294.224           95.266         177.266         116.134         -412.418         -280.241           97.629         177.111         81.040         -603.913         -294.224           97.629         170.256         116.134         -412.418         -280.241           97.629         170.256         116.134         117.111         114.046.106         -280.211           98.786         119.459         119.249         112.719         -281.144         -197.218           98.787         119.249         112.719         -881.14  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.45         -356.363           85.779         129.103         89.717         23.631         -423.45         -356.363           85.779         129.103         89.717         23.631         -422.553         -356.410           88.851         142.580         96.324         43.76         -431.33         -306.07         -413.33         -306.07           94.918         175.275         106.289         41.376         -418.03         -292.204           95.266         177.261         115.355         60.018         -416.169         -280.241           95.256         177.276         62.219         -412.418         -280.241           95.256         177.276         63.977         -412.418         -280.211           98.14         198.103         129.316         112.719         -281.144         -197.118           98.762         119.459         13.934         112.719         -584.14         -197.218           98.783         112.789         112.719         -584.14         -193.48           104.600         25.3773   
  | 69.245         75.470         75.043         0.128         -417.983         -378.89           87.776         96.294         77.880         7386         -423.456         -356.336           85.779         129.103         89.717         22.631         -422.455         -356.336           85.779         129.103         89.717         22.631         -422.553         -356.410           88.851         142.580         96.324         41.376         -41.333         -306.07         -41.333         -306.07           94.918         175.279         116.537         60.018         -416.169         -280.244           95.266         177.266         116.337         62.219         -418.075         -292.204           95.266         177.266         116.337         62.219         -412.418         -280.241           97.629         177.111         81.040         -603.913         -280.211           98.140         198.103         112.340         -142.418         -280.211           98.786         119.459         13.931         112.719         -281.144         -127.138           98.787         110.4600         25.3773         13.92.43         113.239         -143.448         110.400  |
| 8 1.36   | B. 196   1.3853   1.3550   1.2550   -424.3450   -350.3451     B. 1579   129.113   15.125   1.2550   -421.345   -350.3451     B. 1579   129.113   12.255   -421.345   -350.410     B. 15.413   102.259   102.259   -421.345   -322.44     B. 15.413   102.259   102.259   -411.243   -232.244     B. 15.413   115.345   102.259   -411.243   -232.244     B. 17.549   115.375   -60.113   -411.243   -230.244     B. 17.549   115.375   -62.219   -411.243   -252.245     B. 17.549   115.375   -60.113   -141.243   -267.215     B. 14.65   127.111   81.040   -603.913   -249.215     B. 14.65   127.111   81.040   -603.913   -249.215     B. 18.6  
   
   
  | Bit  
   
  | B. 17.   B   
   
   
   
  | Bit  
   
   
   
  | Bit  
   
   
   
  | B. 17.   B   
   
   
   | Bit   
   
  | Bit  
   
   
   | 13.855   13.855   15.250   -423.450   -350.845  
-350.845   -350  
   | B. 13.853   1.3.550   1.3.550   1.4.2450   1.3.543   1.3.550   1.3.543   1.3.550   1.3.543   1.3.550   1.3.5410  
1.3.5410   1.3.5   | B. 13.855   1.3.852   1.3.852   1.4.2450   1.3.853   1  
   | B. 13.855   1.3.852   1.3.852   1.4.2450   1.3.853  
1.3.853   1  
  | B. 13.853   1.3.550   1.3.550   1.4.2450   1.3.543   1.3.550   1.3.543   1.3.550   1.3.543   1.3.550   1.3.5410   1.3.5   | B. 13.853   1.3.550   1.3.550   1.4.2450   1.3.543   1.3.550   1.3.543   1.3.550   1.3.543   1.3.550   1.3.5410   1.3.5   | B. 13.853   1.3.550   1.3.550   1.4.2450   1.3.543   1.3.550   1.3.543   1.3.550   1.3.543   1.3.550   1.3.5410   1.3.5410  
1.3.5410   1.3.5   | B. 15.   1.5.  
   | B. 15.   1.5.   
   | B. 15.   1.5.   
  | 13.853   13.853   15.250   -423.450   -595.451   -595  | 13.853   13.853   15.250   -423.450   -595.451   -595   | 13.853   13.853   15.250   -423.450   -595.451   -595   | 13.853   13.853   15.250   -423.450   -595.451  
-595.451   -595   | B. 13.853   1.3.550   1.3.550   1.4.2450   1.3.543   1.3.550   1.3.543   1.3.550   1.3.543   1.3.550   1.3.5410   1.3.5   | B. 13.855   1.3.852   1.3.852   1.4.2450   1.3.853   1  | 13.855   13.855   15.250   -423.450   -350.845   -350   |
| 85.709 125.103 88.717 23.531 -423.535 91.201 154.589 102.869 41.376 -419.823 91.201 154.589 102.869 41.376 -419.823 92.204 175.49 116.737 66.219 -416.109 95.204 175.49 116.737 66.219 -416.109 95.204 175.49 116.737 62.219 -416.109 95.204 175.49 116.737 62.219 -416.109 95.204 175.49 116.737 62.219 -416.109 95.204 175.49 116.737 62.219 -416.109 95.204 175.49 116.737 62.219 -416.109 95.204 175.49 116.737 62.219 -416.109 95.204 175.49 116.737 113.40 -403.918 104.600 126.40 119.829 119.243 110.209 104.600 126.40 117.21 119.829 119.429 104.600 126.40 117.21 119.229 119.429 104.600 126.40 117.21 117.21 117.21 104.600 126.40 117.21 117.21 104.600 126.40 117.21 117.21 104.600 126.40 117.21 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 117.21 104.600 126.40 126.40 126.40 126.40 104.600 126.40 126.40 126.40 126.40 104.600 126.40 126.40 126.40 126.40 104.600 126.40 126.40 126.40 126.40 104.600 126.40 126.40 126.40 126.40 126.40 104.600 126.40 126.40 126.40 126.40 126.40 104.600 126.40 | 8.8.709   129, 103 89,717   213.631   -4225555   -433.6410   -336.  
   
   
  | 8.8.709   129, 103   89,717   23.631   -4225555   -4336,410   -439103   89,717   23.631   -432555   -4313.531   -3336,410   -3324,204   93.266   163.489   103.259   50.067   -418.073   -3294.204   93.266   175.373   115.335   60.018   -418.073   -2394.204   95.266   177.549   116.737   63.297   -418.073   -2394.204   95.266   177.549   116.737   63.297   -48.08100   -280.215   86.203   116.377   63.297   -48.08100   -280.215   86.203   13.246   177.111   81.040   -603.913   -267.215   85.264   -267.206   81.045   17.216   82.264   -267.206   83.041   -267.206   83.04   -267.206   83.040   -230.216   83.040   -230.216   83.040   -230.216   83.040   -230.216   83.040   -230.216   83.040   -230.216   83.040   -230.216   83.040   -230.216   83.040   -33.040  
   
   
  | 8.8.70   129, 103   89,717   23.631   -423.555   -433.410   99.2161   152.569   162.563   -419.825  
   
   
   
  | 8.8.70   129, 103   89,717   23.631   -423.555   -433.410   99.2161   142.569   64.214   31.363   -421.353   -333.410   99.2161   142.569   102.289   41.376   -419.823   -324.204   99.2266   175.479   115.335   60.018   -416.069   -2294.204   99.2266   175.479   116.377   63.219   -416.069   -2294.204   99.2266   177.549   116.377   63.219   -410.406   -2294.204   99.2265   179.266   171.351   171.340   -4112.418   -227.206   98.142   179.266   177.219   98.142   18.1040   -603.913   -267.206   98.142   207.695   139.216   99.288   129.216   99.288   139.216   97.188   -249.215   99.288   139.243   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.240   -203.206   -110.200   100.4600   275.624   110.279   -213.026   -110.200   100.4600   275.624   110.279   -213.026   -110.200   100.4600   275.624   110.279   -213.026   -223.213   -233.026   -233.225   -233.613   -233.225   -233.613   -233.225   -233.613   -233.225   -233.613   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   
   
   
   
  | 8.8.70   129, 103   89,717   23.631   -423.555   -433.410   99.2161   142.569   64.214   31.363   -421.353   -333.410   99.2161   142.569   102.289   41.376   -419.823   -324.204   99.2266   175.479   115.335   60.018   -416.069   -2294.204   99.2266   175.479   116.377   63.219   -416.069   -2294.204   99.2266   177.549   116.377   63.219   -410.406   -2294.204   99.2265   179.266   171.351   171.340   -4112.418   -227.206   98.142   179.266   177.219   98.142   18.1040   -603.913   -267.206   98.142   207.695   139.216   99.288   129.216   99.288   139.216   97.188   -249.215   99.288   139.243   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.240   -203.206   -110.200   100.4600   275.624   110.279   -213.026   -110.200   100.4600   275.624   110.279   -213.026   -110.200   100.4600   275.624   110.279   -213.026   -223.213   -233.026   -233.225   -233.613   -233.225   -233.613   -233.225   -233.613   -233.225   -233.613   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   
   
   
  | 8.8.70   129, 103   89,717   23.631   -423.555   -433.410   99.2161   152.569   162.563   -419.825
  -419.825    
   
   
   | 8.8.709   129, 103 89,717   23.631   -423.555   -433.6410   -336.4  
   
  | 8.8.70   129, 103   89,717   23.631   -423.555   -433.410   99.2161   142.569   64.214   31.363   -421.353   -333.410   99.2161   142.569   102.289   41.376   -419.823   -324.204   99.2266   175.479   115.335   60.018   -416.069   -2294.204   99.2266   175.479   116.377   63.219   -416.069   -2294.204   99.2266   177.549   116.377   63.219   -410.406   -2294.204   99.2265   179.266   171.351   171.340   -4112.418   -227.206   98.142   179.266   177.219   98.142   18.1040   -603.913   -267.206   98.142   207.695   139.216   99.288   129.216   99.288   139.216   97.188   -249.215   99.288   139.243   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.913   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218   99.243   110.278   -384.147   -192.218  
99.243   110.240   -203.206   -110.200   100.4600   275.624   110.279   -213.026   -110.200   100.4600   275.624   110.279   -213.026   -110.200   100.4600   275.624   110.279   -213.026   -223.213   -233.026   -233.225   -233.613   -233.225   -233.613   -233.225   -233.613   -233.225   -233.613   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   -233.82   -233.225   
   
   
   | 8.8.709   129, 103 89,717   213.631   -4225555   -423.6410   99.1291   142.569   96.2149   213.641   -419.823   -336.410   -320.244   91.291   153.438   102.289   00.269   -416.169   -229.244   95.264   175.373   115.335   60.018   -416.169   -229.244   95.264   175.373   116.737   62.219   -416.169   -229.244   95.264   175.373   116.737   62.219   -416.169   -229.244   95.264   175.373   171.340   -412.418   -267.206   97.629   194.645   121.351   13.340   -412.418   -267.206   97.629   194.645   127.111   81.040   -603.913   -249.215   95.860   129.245   139.245   112.719   -584.147   -192.218   95.860   219.459   139.243   112.719   -584.147   -192.218   95.860   219.459   139.243   112.719   -584.147   -192.218   95.860   23.373   140.805   -231.392   -167.596   104.600   275.932   160.835   -231.392   -167.596   104.600   275.932   104.805   193.743   -231.206   -119.880   104.600   275.932   104.805   193.743   -231.206   -119.880   104.600   205.744   179.117   -231.633   -242.240   -26.832   104.600   18.611   -26.832   104.600   205.744   104.600   205.745   194.645   224.333   -492.240   -26.832   104.600   106.600   106.600   106.600   106.600   205.745   106.835   223.613   -26.2433   -492.240   -26.832   104.600   205.243   -402.240   -20.243   -402.240   -20.243   -402.240   -20.243   -402.240   -20.243   -20.  
   
   | 8.570   129, 103   89,717   213.63   -4213.55   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.6 | 8.8.709   129, 103 89,717   213.631   -4213555   -421355   
   
  | 8.8.709   129, 103 89,717   213.631   -4213555   -421355   
   
                               | 8.570   129, 103   89,717   213.63   -4213.55   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.6 | 8.570   129, 103   89,717   213.63   -4213.55   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.6 | 8.570   129, 103   89,717   213.63   -4213.55   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.6 | 8.570   129, 103   89,717   213.63   -4213.55   -423.5410   99,128   123.64   -419.823   -336.410   -320.244   91.291   154.589   102.89   41.376   -419.823   -336.410   -320.244   91.291   155.478   102.89   60.018   -416.169   -229.244   95.264   175.479   116.737   62.219   -416.169   -229.244   95.264   175.773   116.737   62.219   -416.169   -229.244   95.264   175.773   116.737   62.219   -416.169   -229.244   95.265   116.737   62.219   -412.418   -229.2136   97.629   194.645   127.111   81.040   -60.39.13   -249.213   87.042   132.94   112.719   -584.14   -192.218   99.80   219.459   132.94   112.719   -584.14   -192.218   99.80   219.459   132.94   112.719   -584.14   -192.218   99.80   23.773   13.29   -167.89   104.600   266.601   44.700   170.833   -531.92   -167.89   104.600   256.233   192.24   112.29   -231.20   -193.24   100.83   -231.20   -167.89   104.600   256.601   44.700   170.833   -531.92   -167.89   104.600   256.233   170.173   -231.603   -193.24   100.83   -231.63   -167.89   104.600   256.601   44.700   170.833   -531.92   -167.89   104.600   256.233   170.173   -231.63  
   | 8.570   129, 103   89,717   213.63   -4213.55   -423.5410   99,128   123.64   -419.823   -336.410   -320.244   91.291   154.589   102.89   41.376   -419.823   -336.410   -320.244   91.291   155.478   102.89   60.018   -416.169   -229.244   95.264   175.479   116.737   62.219   -416.169   -229.244   95.264   175.773   116.737   62.219   -416.169   -229.244   95.264   175.773   116.737   62.219   -416.169   -229.244   95.265   116.737   62.219   -412.418   -229.2136   97.629   194.645   127.111   81.040   -60.39.13   -249.213   87.042   132.94   112.719   -584.14   -192.218   99.80   219.459   132.94   112.719   -584.14   -192.218   99.80   219.459   132.94   112.719   -584.14   -192.218   99.80   23.773   13.29   -167.89   104.600   266.601   44.700   170.833   -531.92   -167.89   104.600   256.233   192.24   112.29   -231.20   -193.24   100.83   -231.20   -167.89   104.600   256.601   44.700   170.833   -531.92   -167.89   104.600   256.233   170.173   -231.603   -193.24   100.83   -231.63   -167.89   104.600   256.601   44.700   170.833   -531.92   -167.89   104.600   256.233   170.173   -231.63   
   | 8.570   129, 103   89,717   213.63   -4213.55   -423.5410   99,128   123.64   -419.823   -336.410   -320.244   91.291   154.589   102.89   41.376   -419.823   -336.410   -320.244   91.291   155.478   102.89   60.018   -416.169   -229.244   95.264   175.479   116.737   62.219   -416.169   -229.244   95.264   175.773   116.737   62.219   -416.169   -229.244   95.264   175.773   116.737   62.219   -416.169   -229.244   95.265   116.737   62.219   -412.418   -229.2136   97.629   194.645   127.111   81.040   -60.39.13   -249.213   87.042   132.94   112.719   -584.14   -192.218   99.80   219.459   132.94   112.719   -584.14   -192.218   99.80   219.459   132.94   112.719   -584.14   -192.218   99.80   23.773   13.29   -167.89   104.600   266.601   44.700   170.833   -531.92   -167.89   104.600   256.233   192.24   112.29   -231.20   -193.24   100.83   -231.20   -167.89   104.600   256.601   44.700   170.833   -531.92   -167.89   104.600   256.233   170.173   -231.603   -193.24   100.83   -231.63   -167.89   104.600   256.601   44.700   170.833   -531.92   -167.89   104.600   256.233   170.173   -231.63  
-231.63      | 8.570   129, 103   89,717   213.63   -4213.55   -423.5410   99,129   154.589   102.89   91,291   154.589   102.89   91,292   154.589   102.89   91,292   -419.823   -328.410   -329.2424   91,292   155.473   102.294   -416.169   -229.2424   92,264   175.479   116.737   62,219   -416.169   -229.2424   92,264   175.479   116.737   62,219   -416.169   -229.2424   92,265   179.266   116.737   62,219   -416.169   -229.2424   97.629   194.645   121.131   113.40   -603.913   -249.213   88.14   198.103   129.246   127.111   81.040   -603.913   -249.213   89.80   219.469   133.031   102.786   -584.14   -192.218   99.80   219.469   133.031   102.786   -584.14   -192.218   99.80   219.459   138.945   112.719   -584.14   -192.218   99.80   219.459   139.243   113.299   -249.170   -249.218   99.80   224.73   210.093   -231.205   -110.205   104.600   266.601   46.700   170.833   -531.992   -167.396   110.4600   256.601   46.700   170.833   -531.992   -167.396   -110.400   226.513   -223.235 | 8.570   129, 103   89,717   213.63   -4213.55   -423.5410   99,129   154.589   102.89   91,291   154.589   102.89   91,292   154.589   102.89  
91,292   -419.823   -328.410   -329.2424   91,292   155.473   102.294   -416.169   -229.2424   92,264   175.479   116.737   62,219   -416.169   -229.2424   92,264   175.479   116.737   62,219   -416.169   -229.2424   92,265   179.266   116.737   62,219   -416.169   -229.2424   97.629   194.645   121.131   113.40   -603.913   -249.213   88.14   198.103   129.246   127.111   81.040   -603.913   -249.213   89.80   219.469   133.031   102.786   -584.14   -192.218   99.80   219.469   133.031   102.786   -584.14   -192.218   99.80   219.459   138.945   112.719   -584.14   -192.218   99.80   219.459   139.243   113.299   -249.170   -249.218   99.80   224.73   210.093   -231.205   -110.205   104.600   266.601   46.700   170.833   -531.992   -167.396   110.4600   256.601   46.700   170.833   -531.992   -167.396   -110.400   226.513   -223.235  | 8.570   129, 103   89,717   213.63   -4213.55   -423.5410   99,128   123.64   -419.823   -336.410   -321.42   -321.244   -321.264    | 8.570   129, 103   89,717   213.63   -4213.55   -423.5410   99,128   123.64   -419.823   -336.410   -321.42   -321.244   -321.264    | 8.570   129, 103   89,717   213.63   -4213.55   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.64   -4213.65   -4213.6 | 8.8.709   129, 103 89,717   213.631   -4213555   -421355 
 -421355   -421355   -421355   -421355   -421355   -421355   -421355   -421355   -421355   -421355  | 8.8.709   129, 103 89,717   213.631   -4225555   -423.6410   99.1291   142.569   96.2149   213.641   -419.823   -336.410   -320.244   91.291   153.438   102.289   00.269   -416.169   -229.244   95.264   175.373   115.335   60.018   -416.169   -229.244   95.264   175.373   116.737   62.219   -416.169   -229.244   95.264   175.373   116.737   62.219   -416.169   -229.244   95.264   175.373   171.340   -412.418   -267.206   97.629   194.645   121.351   13.340   -412.418   -267.206   97.629   194.645   127.111   81.040   -603.913   -249.215   95.860   129.245   139.245   112.719   -584.147   -192.218   95.860   219.459   139.243   112.719   -584.147   -192.218   95.860   219.459   139.243   112.719   -584.147   -192.218   95.860   23.373   140.805   -231.392   -167.596   104.600   275.932   160.835   -231.392   -167.596   104.600   275.932   104.805   193.743   -231.206   -119.880   104.600   275.932   104.805   193.743   -231.206   -119.880   104.600   205.744   179.117   -231.633   -242.240   -26.832   104.600   18.611   -26.832   104.600   205.744   104.600   205.745   194.645   224.333   -492.240   -26.832   104.600   106.600   106.600   106.600   106.600   205.745   106.835   223.613   -26.2433   -492.240   -26.832   104.600   205.243   -402.240   -20.243   -402.240   -20.243   -402.240   -20.243   -402.240   -20.243   -20. |
| 91.29  | 91.26   154.58   102.869   41.376   -419.823   -508.070   94.918   175.373   115.335   60.018   -416.06   -2294.344   95.264   175.373   115.335   60.018   -416.06   -2294.344   95.264   175.473   115.337   63.277   -418.077   -2294.344   95.265   179.266   116.377   63.277   -418.077   -260.341   -260.354   -260.354   -260.354   -260.354   -260.354   -260.354   -260.354   -260.354   -260.354   -260.354   -260.354   -260.354   -260.354   -260.315   -260.354   
   
   
  | 91.261 154.589 102.869 41.376 -419.823 -508.070  94.916 115.348 109.229 50.607 -418.075 -598.070  94.918 175.373 115.335 60.018 -416.169 -229.344  95.256 177.549 116.377 63.977 -418.076 -229.344  95.256 177.549 116.377 63.977 -418.076 -229.329   98.140 198.103 129.516 85.264 -603.913 -267.206  98.140 198.103 129.516 85.264 -603.913 -267.206  98.150 198.103 129.516 87.188 -267.206  99.913 119.829 139.243 112.239 -588.116 -220.358  99.913 110.829 139.243 113.239 -588.116 -220.358  99.913 110.850 139.243 113.239 -189.243 110.000  104.600 25.37.73 139.243 110.278 -588.116 -220.358  99.913 110.850 181.313 -577.32 -418.48  104.600 26.0640 146.700 110.833 -531.992 -167.596  104.600 26.063 14.073 12.02.33 -531.992 -167.596  104.600 26.063 11.323 -202.33 -531.992 -167.596  104.600 26.063 11.323 -202.33 -531.992 -167.596  104.600 26.063 17.324 27.223 -531.992 -167.596  104.600 26.063 17.324 27.263 -59.577 -49.488  104.600 36.064 18.572 -22.33 -69.577 -26.886  104.600 36.064 18.572 -22.33 -69.577 -26.886  104.600 36.064 18.572 -22.33 -49.22.90 40.918  104.600 32.2084 21.2316 26.53.3 -47.23 -47.286  104.600 32.2084 21.2316 26.53.3 -47.23 -47.288   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.53.3 -47.23 -47.888   104.600 32.2084 21.2316 26.33.3 -47.23 -47.888   104.600 32   
   
   
  | 91.261 154.589 102.869 41.376 -419.823 -508.070 94.916 175.373 115.353 60.018 -416.069 -2294.344 95.254 175.373 115.335 60.018 -416.069 -2294.344 95.255 179.266 116.377 62.219 — GAMMA <> BETA- 96.333 186.202 121.351 71.340 -603.913 -229.206 98.142 207.695 12.351 13.340 -603.913 -229.206 98.142 207.695 12.351 13.340 -603.913 -229.206 98.142 207.695 13.351 102.786 -588.116 -220.206 98.788 212.028 13.351 102.786 -588.116 -220.206 98.788 212.028 13.351 102.786 -588.116 -192.218 99.913 219.829 13.9243 113.239 — ALPHA <> LIQUID 104.600 25.3773 13.9243 113.239 — ALPHA <> LIQUID 104.600 25.3773 13.9243 113.239 — ALPHA <> LIQUID 104.600 25.352 14.032 181.313 -527.323 -143.48 104.600 27.562 167.321 272.323 -143.48 104.600 27.562 167.321 272.323 -143.48 104.600 27.562 167.321 272.323 -143.48 104.600 25.756 18.323 12.6035 -119.36 104.600 25.756 18.452 223.613 -503.77 104.600 25.756 18.452 223.613 -503.77 104.600 300.764 203.833 275.433 -685.600 18.611 10.4600 25.756 18.452 223.613 -503.77 104.600 300.764 203.833 275.433 -672.27 104.600 300.764 203.833 275.433 -672.27 104.600 325.888 216.305 244.935 106.773 106.77   
   
   
   
  | 91.261 154.589 102.869 41.376 -419.823 -508.070 94.918 175.373 115.353 60.018 -416.069 -2294.344 95.254 175.373 115.335 60.018 -416.069 -2294.344 95.254 175.269 116.377 62.219 — GAMMA <> BETA- 96.335 186.202 116.377 63.977 — TRANSITION 96.340 194.645 127.111 81.040 -603.913 -2.29.206 98.142 207.695 13.9516 85.244 — HTAANSITION 98.788 212.028 133.031 102.786 -588.116 -2.20.238 99.980 219.459 139.243 113.239 — ALPHA <> LIQUID 104.600 25.37.73 139.243 113.239 — ALPHA <> LIGUID 104.600 25.37.73 139.243 113.239 — ALPHA <> LIGUID 104.600 25.37.73 139.243 112.693 -531.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693 -131.862 -195.794 104.600 25.37.74 139.243 12.693 -24.473 -26.382 104.600 30.57.76 184.52 23.3613 -50.0376 -13.386 104.600 30.57.76 189.239 244.073 -60.2077 -26.388 104.600 30.57.76 189.239 244.073 -60.2077 -26.388 104.600 31.25.88 216.302 -47.240 40.318 104.600 32.25.88 216.302 -47.240 40.318 104.600 32.25.88 216.303 22.343 -47.298 106.739 104.600 32.25.88 216.303 27.2433 -67.273 106.739 104.600 32.25.88 212.316 25.2433 -67.273 106.739 104.600 32.25.88 212.316 25.233 -47.493 106.739 104.600 32.25.88 216.303 27.2473 17.293 -47.498 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.89 21.2316 25.203 -47.293 106.739 104.600 32.25.89 21.2316 25.203 -47.293 106.739 104.600 32.25.25 21.223 21  
   
   
   
   | 91.261 154.589 102.869 41.376 -419.823 -508.070 94.918 175.373 115.353 60.018 -416.069 -2294.344 95.254 175.373 115.335 60.018 -416.069 -2294.344 95.254 175.269 116.377 62.219 — GAMMA <> BETA- 96.335 186.202 116.377 63.977 — TRANSITION 96.340 194.645 127.111 81.040 -603.913 -2.29.206 98.142 207.695 13.9516 85.244 — HTAANSITION 98.788 212.028 133.031 102.786 -588.116 -2.20.238 99.980 219.459 139.243 113.239 — ALPHA <> LIQUID 104.600 25.37.73 139.243 113.239 — ALPHA <> LIGUID 104.600 25.37.73 139.243 113.239 — ALPHA <> LIGUID 104.600 25.37.73 139.243 112.693 -531.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693 -131.862 -195.794 104.600 25.37.74 139.243 12.693 -24.473 -26.382 104.600 30.57.76 184.52 23.3613 -50.0376 -13.386 104.600 30.57.76 189.239 244.073 -60.2077 -26.388 104.600 30.57.76 189.239 244.073 -60.2077 -26.388 104.600 31.25.88 216.302 -47.240 40.318 104.600 32.25.88 216.302 -47.240 40.318 104.600 32.25.88 216.303 22.343 -47.298 106.739 104.600 32.25.88 216.303 27.2433 -67.273 106.739 104.600 32.25.88 212.316 25.2433 -67.273 106.739 104.600 32.25.88 212.316 25.233 -47.493 106.739 104.600 32.25.88 216.303 27.2473 17.293 -47.498 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.88 216.303 -47.2403 40.318 104.600 32.25.89 21.2316 25.203 -47.293 106.739 104.600 32.25.89 21.2316 25.203 -47.293 106.739 104.600 32.25.25 21.223 21   
   
   
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-503.77 104.600 300.764 203.833 275.433 -685.600 18.611 10.4600 25.756 18.452 223.613 -503.77 104.600 300.764 203.833 275.433 -672.27 104.600 300.764 203.833 275.433 -672.27 104.600 325.888 216.305 244.935 106.773 106.77   
   
   
   | 91.261 154.589 102.869 41.376 -419.823 -508.070  94.916 115.348 109.289 40.376 -419.829 -508.070  94.918 175.373 115.335 60.018 -416.169 -2294.344  95.256 177.549 116.377 62.219 — GAMMA <> BETA-  96.333 186.203 121.351 71.340 -603.913 -267.206  98.142 207.695 12.351 81.040 -603.913 -267.206  98.142 207.695 12.351 81.040 -603.913 -267.206  98.142 207.695 12.351 10.278 -288.116 -207.206  98.142 207.695 13.9516 97.188 -267.206  99.303 12.9549 139.243 112.239 — ALPHA <> LIQUID  104.600 20.601 14.700 11.02.786 -588.116 -220.358  99.913 139.243 110.278 -584.147 -192.218  99.913 139.243 110.278 -584.147 -192.218  99.913 139.243 110.278 -584.147 -192.218  90.913 139.243 110.278 -584.147 -192.218  90.914 10.4600 20.502 11.40.20  10.95.50  104.600 20.503 17.403 12.40.33 -531.992 -119.580  104.600 20.503 17.341 212.693 -514.191 -72.614  104.600 20.503 17.314 212.693 -514.191 -72.614  104.600 20.503 17.314 212.693 -514.191 -72.614  104.600 20.503 17.314 212.693 -544.191 -72.614  104.600 20.503 17.314 212.693 -492.240 40.918  104.600 30.5764 18.452 22.433 -686.600 18.611  104.600 20.503 17.314 20.323 24.4073 -670.273 106.773  104.600 20.203 20.474 20.203 20.44  104.600 20.203 20.474 20.203 20.44  104.600 20.203 20.474 20.203 20.44  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20.474 20.203 20.204  104.600 20.203 20  
   
  | 91.261 154.589 102.869 41.376 -419.823 -508.070 94.918 175.373 115.353 60.018 -416.069 -2294.344 95.254 175.373 115.335 60.018 -416.069 -2294.344 95.254 175.269 116.377 62.219 — GAMMA <> BETA- 96.335 186.202 116.377 63.977 — TRANSITION 96.340 194.645 127.111 81.040 -603.913 -2.29.206 98.142 207.695 13.9516 85.244 — HTAANSITION 98.788 212.028 133.031 102.786 -588.116 -2.20.238 99.980 219.459 139.243 113.239 — ALPHA <> LIQUID 104.600 25.37.73 139.243 113.239 — ALPHA <> LIGUID 104.600 25.37.73 139.243 113.239 — ALPHA <> LIGUID 104.600 25.37.73 139.243 112.693 -531.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693.5 -131.992 -167.596 104.600 25.37.73 139.243 12.693 -131.862 -195.794 104.600 25.37.74 139.243 12.693 -24.473 -26.382 104.600 30.57.76 184.52 23.3613 -50.0376 -13.386 104.600 30.57.76 189.239 244.073 -60.2077 -26.388 104.600 30.57.76 189.239 244.073 -60.2077 -26.388 104.600 31.25.88 216.302 -47.240 40.318 104.600 32.25.88 216.302 -47.240 40.318 104.600 32.25.88 216.303 22.343 -47.298 106.739 104.600 32.25.88 216.303 27.2433 -67.273 106.739 104.600 32.25.88 212.316 25.2433 -67.273 106.739 104.600 32.25.88 212.316 25.233 -47.493 106.739 104.600
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  | 91.291 154.589 102.869 41.376 -419.829 -508.070 94.918 175.373 115.353 60.018 -416.069 -2294.344 95.254 175.373 115.335 60.018 -416.069 -2294.344 95.254 175.269 116.377 62.219 — GAMMA <> BETA. 96.435 186.205 12.1331 71.340 -4012.418 -267.206 98.142 207.695 12.5111 81.040 -603.913 -2.29.218 98.142 207.695 13.031 102.786 -588.116 -2.07.206 98.860 219.459 139.243 113.239 —584.147 -197.218 99.910 219.829 139.243 113.239 —584.147 -197.218 99.910 210.829 139.243 113.239 —584.147 -197.218 99.911 210.829 139.243 113.239 —4.04.14.418 90.912 210.829 139.243 113.239 —4.04.14.418 90.913 210.829 139.243 113.239 —4.07.14.348 90.913 210.829 139.243 113.239 —5.88.116 -2.07.338 90.913 210.829 139.243 113.239 —5.88.116 -2.07.338 90.913 210.829 139.243 113.239 —5.88.116 -2.07.348 104.600 20.63.32 16.03.21 173 -5.32.60 104.600 20.65.32 18.13.31 -5.27.232 -1.43.488 104.600 20.65.32 184.532 -5.33.60 104.600 20.65.32 184.532 -5.06.306 -2.38.60 104.600 30.65.2 189.720 -2.44.773 -5.00.97 104.600 31.25.83 212.316 22.24.317 -6.02.23 104.600 31.25.83 212.316 22.24.317 -6.02.23 104.600 31.25.83 22.24.773 -6.02.23 104.800 31.25.83 22.24.773 -6.02.23 104.800 31.25.83 22.24.773 -6.02.23 104.800 31.25.93 -6.02.23 104.800 31.25.83 22.24.773 -6.02.23 104.800 31.25.93   
   
  | 91.26   154.58   102.869   41.376   -419.272   -308.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.256   175.473   115.335   60.018   -416.06   -2294.324   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -416.06   -2204.324   95.256   177.549   116.737   62.219   -410.018   -2504.224   95.252   177.111   81.040   -603.913   -249.215   98.14   -192.218   95.264   -102.088   133.031   102.786   -584.147   -192.218   95.800   219.459   138.945   112.719   -584.147   -192.218   95.800   25.3773   139.243   112.719   -584.147   -192.218   95.800   146.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   170.117   222.115   -503.056   -193.948   110.0450   256.051   170.117   222.115   -503.056   -183.81   170.117   222.115   -503.056   -183.81   170.117   222.115   -492.240   18.050   18.011   -405.050   10.04.00   232.084   232.084   232.084   232.084   232.083   -407.249 | 91.26   154.58   102.869   41.376   -419.872   -398.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.256   175.473   115.335   60.018   -416.06   -2294.324   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -410.018   -2594.204   95.252   177.111   81.040   -603.913   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -220.218   95.264   -220.218   95.264   -220.218   95.264   112.719   -584.147   -192.218   95.264   -220.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.219   -163.264   110.4600   256.601   46.700   170.833   -531.927   -163.488   10.4600   256.243   170.117   -223.163   -263.224   -263.2  
   
   | 91.26   154.58   102.869   41.376   -419.872   -398.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.256   175.473   115.335   60.018   -416.06   -2294.324   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -410.018   -2594.204   95.252   177.111   81.040   -603.913   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -220.218   95.264   -220.218   95.264   -220.218   95.264   112.719   -584.147   -192.218   95.264   -220.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.219   -163.264   110.4600   256.601   46.700   170.833   -531.927   -163.488   10.4600   256.243   170.117   -223.163   -263.224   -263.2  
  | 91.26   154.58   102.869   41.376   -419.272   -308.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.256   175.473   115.335   60.018   -416.06   -2294.324   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -416.06   -2204.324   95.256   177.549   116.737   62.219   -410.018   -2504.224   95.252   177.111   81.040   -603.913   -249.215   98.14  
-192.218   95.264   -102.088   133.031   102.786   -584.147   -192.218   95.800   219.459   138.945   112.719   -584.147   -192.218   95.800   25.3773   139.243   112.719   -584.147   -192.218   95.800   146.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   170.117   222.115   -503.056   -193.948   110.0450   256.051   170.117   222.115   -503.056   -183.81   170.117   222.115   -503.056   -183.81   170.117   222.115   -492.240   18.050   18.011   -405.050   10.04.00   232.084   232.084   232.084   232.084   232.083   -407.249 | 91.26   154.58   102.869   41.376   -419.272   -308.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.256   175.473   115.335   60.018   -416.06   -2294.324   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -416.06   -2204.324   95.256   177.549   116.737   62.219   -410.018   -2504.224   95.252   177.111   81.040   -603.913   -249.215   98.14   -192.218   95.264   -102.088   133.031   102.786   -584.147   -192.218   95.800   219.459   138.945   112.719   -584.147   -192.218   95.800   25.3773   139.243   112.719   -584.147   -192.218   95.800   146.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   170.117   222.115   -503.056   -193.948   110.0450   256.051   170.117   222.115   -503.056   -183.81   170.117   222.115   -503.056   -183.81   170.117   222.115   -492.240   18.050   18.011   -405.050   10.04.00   232.084   232.084   232.084   232.084   232.083   -407.249 | 91.26   154.58   102.869   41.376   -419.272   -308.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.256   175.473   115.335   60.018   -416.06   -2294.324   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -416.06   -2204.324   95.256   177.549   116.737   62.219   -410.018   -2504.224   95.252   177.111   81.040   -603.913   -249.215   98.14   -192.218   95.264   -102.088   133.031   102.786   -584.147   -192.218   95.800   219.459   138.945   112.719   -584.147   -192.218   95.800   25.3773   139.243   112.719   -584.147   -192.218   95.800   146.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   170.117   222.115   -503.056   -193.948   110.0450   256.051   170.117   222.115   -503.056   -183.81   170.117   222.115   -503.056   -183.81   170.117   222.115   -492.240   18.050   18.011   -405.050   10.04.00   232.084   232.084   232.084   232.084   232.083   -407.249 | 91.26   154.58   102.869   41.376   -419.273   -538.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.264   175.473   115.335   60.018   -416.06   -2294.324   95.264   175.473   115.335   60.018   -416.06   -2204.324   95.264   175.473   115.335   60.018   -416.06   -2204.324   95.264   175.473   115.335   60.018   -410.478   -260.313   -249.215   98.14   -260.3913   -249.215   98.14   -260.3913   -249.215   98.14   -260.3913   -249.215   98.78   -220.208   133.031   102.786   -584.147   -192.218   99.913   219.243   113.293   -584.147   -192.218   99.913   219.243   113.293   -249.118   -220.338   99.913   219.243   113.293   -249.118   -240.328   112.795   -249.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.914   104.600   266.601   46.700   170.853   -531.992   -167.596   110.4600   256.601   46.700   170.853   -251.205   -119.206   110.4600   200.693   170.117   222.113   -250.367   -26.852   110.4600   200.693   170.117   222.113   -260.204   -20.507   -20   
   | 91.26   154.58   102.869   41.376   -419.273   -538.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.264   175.473   115.335   60.018   -416.06   -2294.324   95.264   175.473   115.335   60.018   -416.06   -2204.324   95.264   175.473   115.335   60.018   -416.06   -2204.324   95.264   175.473   115.335   60.018   -410.478   -260.313   -249.215   98.14   -260.3913   -249.215   98.14   -260.3913   -249.215   98.14   -260.3913   -249.215   98.78   -220.208   133.031   102.786   -584.147   -192.218   99.913   219.243   113.293   -584.147   -192.218   99.913   219.243   113.293   -249.118   -220.338   99.913   219.243   113.293   -249.118   -240.328   112.795   -249.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.914   104.600   266.601   46.700   170.853   -531.992   -167.596   110.4600   256.601   46.700   170.853   -251.205   -119.206   110.4600   200.693   170.117   222.113   -250.367   -26.852   110.4600   200.693   170.117   222.113   -260.204   -20.507   -20  
   | 91.26   154.58   102.869   41.376   -419.273   -538.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.264   175.473   115.335   60.018   -416.06   -2294.324   95.264   175.473   115.335   60.018   -416.06   -2204.324   95.264   175.473   115.335   60.018   -416.06   -2204.324   95.264   175.473   115.335   60.018   -410.478   -260.313   -249.215   98.14   -260.3913   -249.215   98.14   -260.3913   -249.215   98.14   -260.3913   -249.215   98.78   -220.208   133.031   102.786   -584.147   -192.218   99.913   219.243   113.293   -584.147   -192.218   99.913   219.243   113.293   -249.118   -220.338   99.913   219.243   113.293   -249.118   -240.328   112.795   -249.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.913   219.243   113.293   -241.47   -192.218   99.914   104.600   266.601   46.700   170.853   -531.992   -167.596   110.4600   256.601   46.700   170.853   -251.205   -119.206   110.4600   200.693   170.117   222.113   -250.367   -26.852   110.4600   200.693   170.117   222.113   -260.204   -20.507  
-20.507   -20.507   -20.507   -20.507   -20.507   -20   | 91.26   154.58   102.869   41.376   -419.272   -508.070   94.918   175.473   115.335   60.018   -416.06   -2294.204   95.264   175.473   115.335   60.018   -416.06   -2294.204   95.264   175.473   115.335   60.018   -416.06   -2204.204   95.264   175.473   115.335   60.018   -416.06   -2204.204   95.264   175.473   115.335   60.018   -410.018   -260.341   713.40   -603.913   -249.215   88.14   198.013   129.216   97.188   -410.018   -260.318   -260.215   89.18   -260.205   129.245   130.213   102.786   -588.116   -220.338   99.80   219.459   138.945   112.719   -584.147   -192.218   99.80   219.459   138.945   112.719   -584.147   -192.218   99.80   219.459   139.243   112.719   -584.147   -192.218   99.80   23.773   130.243   112.719   -584.147   -192.218   99.80   23.773   23.775   -163.564   104.600   260.601   46.700   170.853   -531.992   -163.564   104.600   250.605   163.21   272.213   -531.605   -119.280   104.600   250.605   18.731   272.213   -531.605   -193.48   104.600   250.605   18.731   272.213   -503.367   -26.825   104.600   250.605   18.731   222.133   -26.2240   -26.825   104.600   250.605   18.731   -20.2343   -20.2340   20.605   18.731   -20.2343   -20.2340   | 91.26   154.58   102.869   41.376   -419.272   -508.070   94.918   175.473   115.335   60.018   -416.06   -2294.204   95.264   175.473   115.335   60.018   -416.06   -2294.204   95.264   175.473   115.335   60.018   -416.06   -2204.204   95.264   175.473   115.335   60.018   -416.06   -2204.204   95.264   175.473   115.335   60.018   -410.018   -260.341   713.40   -603.913   -249.215   88.14   198.013   129.216   97.188   -410.018   -260.318   -260.215   89.18   -260.205   129.245   130.213   102.786   -588.116   -220.338   99.80   219.459   138.945   112.719   -584.147   -192.218  
99.80   219.459   138.945   112.719   -584.147   -192.218   99.80   219.459   139.243   112.719   -584.147   -192.218   99.80   23.773   130.243   112.719   -584.147   -192.218   99.80   23.773   23.775   -163.564   104.600   260.601   46.700   170.853   -531.992   -163.564   104.600   250.605   163.21   272.213   -531.605   -119.280   104.600   250.605   18.731   272.213   -531.605   -193.48   104.600   250.605   18.731   272.213   -503.367   -26.825   104.600   250.605   18.731   222.133   -26.2240   -26.825   104.600   250.605   18.731   -20.2343   -20.2340   20.605   18.731   -20.2343   -20.2340    | 91.26   154.58   102.869   41.376   -419.272   -508.070   94.918   175.473   115.335   60.018   -416.06   -2294.204   95.264   175.473   115.335   60.018   -416.06   -2294.204   95.264   175.473   115.335   60.018   -416.06   -2204.204   95.264   175.473   115.335   60.018   -416.06   -2204.204   95.264   175.473   115.335   60.018   -410.018   -260.341   713.40   -603.913   -249.215   88.14   198.013   129.216   97.188   -410.018   -260.318   -260.215   89.18   -260.205   129.245   130.213   102.786   -588.116   -220.338   99.80   219.459   138.945   112.719   -584.147   -192.218   99.80   219.459   138.945   112.719   -584.147   -192.218   99.80   219.459   139.243   112.719   -584.147   -192.218   99.80   23.773   130.243   112.719   -584.147   -192.218   99.80   23.773   23.775   -163.564   104.600   260.601   46.700   170.853   -531.992   -163.564   104.600   250.605   163.21   272.213   -531.605   -119.280   104.600   250.605   18.731   272.213   -531.605   -193.48   104.600   250.605   18.731   272.213   -503.367   -26.825   104.600   250.605   18.731   222.133   -26.2240   -26.825   104.600   250.605   18.731   -20.2343   -20.2340   20.605   18.731   -20.2343   -20.2340    | 91.26   154.58   102.869   41.376   -419.272   -508.070   94.918   175.473   115.335   60.018   -416.06   -2294.204   95.264   175.473   115.335   60.018   -416.06   -2294.204   95.264   175.473   115.335   60.018   -416.06   -2204.204   95.264   175.473   115.335   60.018   -416.06   -2204.204   95.264   175.473   115.335   60.018   -410.018   -260.341   713.40   -603.913   -249.215   88.14   198.013   129.216   97.188   -410.018   -260.318   -260.215   89.18   -260.205   129.245   130.213   102.786   -588.116   -220.338   99.80   219.459   138.945   112.719   -584.147   -192.218   99.80   219.459   138.945   112.719   -584.147   -192.218   99.80   219.459   139.243   112.719   -584.147   -192.218   99.80   23.773   130.243   112.719   -584.147   -192.218   99.80   23.773   23.775   -163.564   104.600   260.601   46.700   170.853   -531.992   -163.564   104.600   250.605   163.21   272.213   -531.605   -119.280   104.600   250.605   18.731   272.213   -531.605   -193.48   104.600   250.605   18.731   272.213   -503.367   -26.825   104.600   250.605   18.731   222.133   -26.2240   -26.825   104.600   250.605   18.731   -20.2343   -20.2340   20.605   18.731   -20.2343   -20.2340    | 91.26   154.58   102.869   41.376   -419.272   -308.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.256   175.473   115.335   60.018   -416.06   -2294.324   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -416.06   -2204.324   95.256   177.549   116.737   62.219   -410.018   -2504.224   95.252   177.111   81.040   -603.913   -249.215   98.14   -192.218   95.264   -102.088   133.031   102.786   -584.147   -192.218   95.800   219.459   138.945   112.719   -584.147   -192.218   95.800   25.3773   139.243   112.719   -584.147   -192.218   95.800   146.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.992   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   46.700   170.853   -531.059   -167.596   110.0450   256.051   170.117   222.115   -503.056   -193.948   110.0450   256.051   170.117   222.115   -503.056   -183.81   170.117   222.115   -503.056   -183.81   170.117   222.115   -492.240   18.050   18.011   -405.050   10.04.00   232.084   232.084   232.084   232.084   232.083   -407.249 | 91.26   154.58   102.869   41.376   -419.872   -398.070   94.918   175.473   115.335   60.018   -416.06   -2294.324   95.256   175.473   115.335   60.018   -416.06   -2294.324   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -416.06   -2205.341   95.256   177.549   116.737   62.219   -410.018   -2594.204   95.252   177.111   81.040   -603.913   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -249.215   95.264   -220.218   95.264   -220.218   95.264   -220.218   95.264   112.719   -584.147   -192.218   95.264   -220.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -584.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.147   -192.218   95.264   112.719   -264.219   -163.264   110.4600   256.601   46.700   170.833   -531.927   -163.488   10.4600   256.243   170.117   -223.163   -263.224   -263.2   
  | 91.291 154.589 102.869 41.376 -419.829 -508.070 94.918 175.373 115.353 60.018 -416.069 -2294.344 95.254 175.373 115.335 60.018 -416.069 -2294.344 95.254 175.269 116.377 62.219 — GAMMA <> BETA. 96.435 186.205 12.1331 71.340 -4012.418 -267.206 98.142 207.695 12.5111 81.040 -603.913 -2.29.218 98.142 207.695 13.031 102.786 -588.116 -2.07.206 98.860 219.459 139.243 113.239 —584.147 -197.218 99.910 219.829 139.243 113.239 —584.147 -197.218 99.910 210.829 139.243 113.239 —584.147 -197.218 99.911 210.829 139.243 113.239 —4.04.14.418 90.912 210.829 139.243 113.239 —4.04.14.418 90.913 210.829 139.243 113.239 —4.07.14.348 90.913 210.829 139.243 113.239 —5.88.116 -2.07.338 90.913 210.829 139.243 113.239 —5.88.116 -2.07.338 90.913 210.829 139.243 113.239 —5.88.116 -2.07.348 104.600 20.63.32 16.03.21 173 -5.32.60 104.600 20.65.32 18.13.31 -5.27.232 -1.43.488 104.600 20.65.32 184.532 -5.33.60 104.600 20.65.32 184.532 -5.06.306 -2.38.60 104.600 30.65.2 189.720 -2.44.773 -5.00.97 104.600 31.25.83 212.316 22.24.317 -6.02.23 104.600 31.25.83 212.316 22.24.317 -6.02.23 104.600 31.25.83 22.24.773 -6.02.23 104.800 31.25.83 22.24.773 -6.02.23 104.800 31.25.83 22.24.773 -6.02.23 104.800 31.25.93 -6.02.23 104.800 31.25.83 22.24.773 -6.02.23 104.800 31.25.93   |
| 94313 (15.73) (15.23) (15.24)  | 94.918   175.73   10.2425   50.001   -4.16.109   -2.94.249   55.264   175.73   115.335   50.001   -4.16.109   -2.94.249   55.264   175.73   115.335   50.001   -4.16.109   -2.90.541   56.345   175.73   115.335   50.001   -2.90.241   74.80.81100   56.345   175.273   173.40   -4.12.41   -5.07.200   57.622   19.4645   177.111   81.040   -6.03.913   -2.97.215   58.140   -5.07.200   58.140   -2.97.215   58.244   -2.97.215   59.243   175.73   13.243   112.73   -5.84.140   -1.97.218   59.913   170.243   113.23   -2.20.358   59.913   170.243   113.23   -2.20.358   59.913   10.2460   13.243   113.23   -2.20.358   59.913   10.2460   13.243   10.2460   10.2560   110.400   10.2460   13.402   10.2460   11.2460   
   
   
  | 94318 115.373 10.2425 50.003 -416.09 -220.341   95.264 175.73 115.335 50.003 -416.09 -220.341   95.264 175.73 115.335 50.003 -416.16 -220.341   95.265 175.65 116.377 6.3219 — GAMIAA <> BETA.   95.35 186.205 115.31   95.36 194.645 127.111 81.040 -603.913 -269.215   95.48 12.028 13.931 102.76 -588.116 -220.358   95.80 219.829 139.243 113.239 — ALPHA <> ALPHA (19.100   95.377 13.243 113.239 — ALPHA <> ALPHA (19.100   95.377 13.3243 113.239 — 119.238   95.913 13.9243 113.239 — ALPHA <> ALPHA (19.100   95.377 13.3243 113.239 — ALPHA <> ALPHA (19.20   95.377 13.3243 113.239 — ALPHA (> ALPHA (19.20   95.377 13.3243 113.33   95.377 13.377 13.377 10.00.773  
   
  | 94518
115.373 10.2425 60.018 -1416.16 -1294.244 95.254 175.73 115.335 60.018 -416.16 -1295.341 95.254 175.75 115.335 60.018 -416.16 -1295.341 95.255 179.266 116.377 65.251 — GAMAA <> BETA. 95.35 186.205 111.531 71.340 -603.913 -249.215 98.140 198.103 129.516 85.264 — ETA. C> ALPH.A. 98.140 198.103 129.516 85.264 — ETA. C> ALPH.A. 98.152 115.269 13.9031 102.786 -588.116 -220.358 99.913 139.243 113.239 — ALPH.A. C> LIQUID 104.600 25.37.73 139.243 113.239 — 584.147 -172.218 99.913 139.243 113.239 — 584.147 -172.218 90.913 130.240 110.2786 -588.116 -220.358 90.913 130.240 110.2786 -588.116 -220.358 90.913 110.4500 26.352 113.30 — 57.352 -143.48 91.4600 275.352 16.323 113.239 — ALPH.A. C> LIQUID 104.600 275.627 110.323 113.239 — 57.3506 -119.580 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.323 -131.323 104.600 25.352 11.323 20.323 -131.323 104.600 25.352 11.323 20.323 -131.323 104.600 25.352 11.323 20.323 -131.323 104.600 25.352 11.323 20.323 -131.323 104.600 25.352 11.323 20.323 20.323  
   
   
   
  | 94518 115.373 10.2425 60.018 -1416.169 -1294.244 95.254 175.739 115.335 60.018 -416.169 -220.341 95.254 175.759 116.377 63.271 TRANSITION 63.371 17.340 -613.913 -267.210 97.629 194.645 127.111 81.040 -603.913 -267.210 98.140 198.103 129.246 81.040 -603.913 -267.210 98.788 212.028 13.031 102.786 -88.116 -220.318 99.913 219.649 139.243 113.239 -588.116 -220.318 99.913 198.249 113.239 -588.116 -179.218 99.913 198.249 113.239 -588.116 -179.218 99.913 195.243 113.239 -588.116 -179.218 99.913 195.243 113.239 -167.509 104.600 265.043 116.323 -131.923 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 255.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -670.276 18.11 104.600 305.796 184.52 23.6413 -670.276 18.67 104.600 312.88 212.316 226.379 -472.240 40.318 104.600 312.88 216.305 26.3793 -472.39 104.600 312.88 216.305 270.475 106.739 104.600 312.88 216.305 -470.745 106.789   
   
   
   
  | 94518 115.373 10.2425 60.018 -1416.169 -1294.244 95.254 175.739 115.335 60.018 -416.169 -220.341 95.254 175.759 116.377 63.271 TRANSITION 63.371 17.340 -613.913 -267.210 97.629 194.645 127.111 81.040 -603.913 -267.210 98.140 198.103 129.246 81.040 -603.913 -267.210 98.788 212.028 13.031 102.786 -88.116 -220.318 99.913 219.649 139.243 113.239 -588.116 -220.318 99.913 198.249 113.239 -588.116 -179.218 99.913 198.249 113.239 -588.116 -179.218 99.913 195.243 113.239 -588.116 -179.218 99.913 195.243 113.239 -167.509 104.600 265.043 116.323 -131.923 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 255.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -670.276 18.11 104.600 305.796 184.52 23.6413 -670.276 18.67 104.600 312.88 212.316 226.379 -472.240 40.318 104.600 312.88 216.305 26.3793 -472.39 104.600 312.88 216.305 270.475 106.739 104.600 312.88 216.305 -470.745 106.789   
   
   
  | 94518 115.373 10.2425 60.018 -1416.16 -1294.244 95.254 175.73 115.335 60.018 -416.16 -1295.341 95.254 175.75 115.335 60.018 -416.16 -1295.341 95.255 179.266 116.377 65.251 — GAMAA <> BETA. 95.35 186.205 111.531 71.340 -603.913 -249.215 98.140 198.103 129.516 85.264 — ETA. C> ALPH.A. 98.140 198.103 129.516 85.264 — ETA. C> ALPH.A. 98.152 115.269 13.9031 102.786 -588.116 -220.358 99.913 139.243 113.239 — ALPH.A. C> LIQUID 104.600 25.37.73 139.243 113.239 — 584.147 -172.218 99.913 139.243 113.239 — 584.147 -172.218 90.913 130.240 110.2786 -588.116 -220.358 90.913 130.240 110.2786 -588.116 -220.358 90.913 110.4500 26.352 113.30 — 57.352 -143.48 91.4600 275.352 16.323 113.239 — ALPH.A. C> LIQUID 104.600 275.627 110.323 113.239 — 57.3506 -119.580 104.600 25.352 11.323 20.323
-131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.923 -131.923 104.600 25.352 11.323 20.323 -131.323 -131.323 104.600 25.352 11.323 20.323 -131.323 104.600 25.352 11.323 20.323 -131.323 104.600 25.352 11.323 20.323 -131.323 104.600 25.352 11.323 20.323 -131.323 104.600 25.352 11.323 20.323 20.323  
   
   
   | 94518 115.373 10.2425 60.018 -416.05 -2.94248 15.575 17.349 16.1737 6.2519 -416.05 -2.90241 95.256 175.759 115.335 60.018 -416.05 -2.90241 95.256 17.256 116.377 6.3219 -6.03.913 -2.90.215 97.622 19.4645 12.7111 81.040 -6.03.913 -2.90.215 97.622 19.4645 127.111 81.040 -6.03.913 -2.90.215 97.622 19.2516 85.264 -6.03.913 -2.90.215 97.622 19.2516 85.264 -6.03.913 -2.90.215 97.188 99.913 13.9243 113.239 -5.88.116 -2.20.238 99.913 13.9243 113.239 -5.88.116 -2.20.238 99.913 13.9243 113.239 -5.88.116 -2.20.238 97.622 19.2523 19.2433 113.239 -5.81.972 -1.97.218 97.912 10.04500 25.37.773 13.2433 110.073 -5.88.116 -2.20.238 110.04500 25.3524 113.239 -5.31.972 -1.07.359 110.04500 25.3523 16.323 113.239 -5.31.972 -1.07.359 110.04500 25.3523 16.323 113.239 -5.31.972 -1.07.359 110.04500 25.3523 16.323 20.233 20.3392 -1.07.359 110.04500 25.3523  
   
  | 94518 115.373 10.2425 60.018 -1416.169 -1294.244 95.254 175.739 115.335 60.018 -416.169 -220.341 95.254 175.759 116.377 63.271 TRANSITION 63.371 17.340 -613.913 -267.210 97.629 194.645 127.111 81.040 -603.913 -267.210 98.140 198.103 129.246 81.040 -603.913 -267.210 98.788 212.028 13.031 102.786 -88.116 -220.318 99.913 219.649 139.243 113.239 -588.116 -220.318 99.913 198.249 113.239 -588.116 -179.218 99.913 198.249 113.239 -588.116 -179.218 99.913 195.243 113.239 -588.116 -179.218 99.913 195.243 113.239 -167.509 104.600 265.043 116.323 -131.923 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 275.6732 163.213 -537.523 -143.48 104.600 255.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -505.977 -26.88 104.600 305.796 184.52 23.6413 -670.276 18.11 104.600 305.796 184.52 23.6413 -670.276 18.67 104.600 312.88 212.316 226.379 -472.240 40.318 104.600 312.88 216.305 26.3793 -472.39 104.600 312.88 216.305 270.475 106.739 104.600 312.88 216.305 -470.745 106.789                       
   
   
   
   | 94.318   17.573   10.2425   0.0019   -4.164.09   -2.264.344   95.254   17.549   116.337   6.2119   -4.164.09   -2.26.344   95.254   17.549   116.337   6.2119   -4.164.09   -2.26.344   95.253   19.266   116.337   13.40   -4.12.418   -5.67.306   97.629   19.4645   17.1111   81.040   -6.03.913   -2.97.215   98.14   198.103   129.516   82.524   -4.12.418   -2.67.216   98.78   212.008   13.031   102.786   -584.147   -192.218   99.93   219.459   138.945   112.719   -584.147   -192.218   99.94   21.542   13.9243   112.719   -584.147   -192.218   99.95   25.373   19.243   112.39   -167.596   104.600   25.573   15.6035   -131.399   -167.596   104.600   27.693   160.885   191.773   -533.06   -119.580   104.600   27.693   160.885   191.773   -533.06   -119.580   104.600   20.5776   167.213   202.233   -134.48   104.600   20.5776   184.532   233.613   -50.5377   -9.488   104.600   20.5776   184.522   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   223.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -472.240   40.918   104.600   20.5786   20.535   224.533   -472.240   40.918   104.600   20.5786   21.2316   226.533   -472.940   104.600   23.588   21.2316   226.533   -472.49   104.600   23.588   21.2316   226.333   -472.49   104.600   23.588   21.2316   226.333   -472.49   104.600   23.588   21.2316   23.683   -470.745   19.885   104.600   23.588   21.2316   23.683   -470.745   19.885  
   
   | 94.318   175.73   102.225   00.001   -1416.019   -220.341   05.226   175.73   115.335   00.001   -1616.09   -220.341   05.226   175.73   115.335   00.018   -416.16   -220.341   05.226   175.73   115.33   05.277   T1.340   -60.3913   -267.215   05.235   05.235   05.245   12.205   05.256   05.256   05.256   05.256   05.256   05.256   05.238   05.256   05.256   05.238   05.256   05.251   05.238   05.256   05.251   05.256   05.251   05 | 94.318   17.573   10.2425   0.0019   -4.164.09   -2.264.344   95.254   17.549   16.737   6.219   -4.164.09   -2.26.344   95.255   179.266   16.737   6.219   -4.164.09   -2.26.344   95.253   19.4645   11.131   11.340   -60.3913   -2.67.116   98.14   198.103   129.516   82.524   -4.12.418   -2.67.216   98.78   212.008   13.031   10.786   -5.84.147   -1.92.218   99.80   219.459   138.945   112.719   -5.84.147   -1.92.218   99.81   219.263   139.243   112.719   -5.84.147   -1.92.218   99.80   25.3773   19.243   112.739   -5.84.147   -1.92.218   99.80   26.601   44.700   170.853   -5.84.147   -1.92.218   90.4600   25.60.73   16.0396   -1.61.596   -1.61.596   104.600   27.5673   16.0380   191.773   -5.23.066   -1.19.580   104.600   27.5673   16.0380   191.773   -5.23.066   -1.19.580   104.600   20.60.81   179.117   222.3153   -5.69.773   -4.84.88   104.600   20.60.82   18.730   22.23.13   -5.69.773   -4.94.88   104.600   20.60.82   18.730   22.23.13   -5.69.773   -4.94.88   104.600   30.60.82   18.730   22.433   -4.65.600   18.511   104.600   30.60.82   18.730   22.433   -4.63.26   -1.93.81   104.600   30.50.82   19.46.65   22.433   -4.67.899   63.044   104.600   318.136   20.8.170   22.533   -4.47.998   12.8410   104.600   23.528   22.336   22.333   -4.47.998   12.8410   104.600   20.528   22.336   22.3336   -4.47.998   12.8410   104.600   20.528   21.236   22.2333   -4.47.998   12.8410   104.600   318.136   20.8.170   22.5337   -4.97.240   104.600   32.539   22.0347   23.233   -4.47.998   12.8410   104.600   23.528   22.336   -4.47.998   22.4019   104.600   23.528   22.336   23.6833   -4.47.998   23.843   104.600   23.528   22.336   23.6833   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.07.47.998   23.843   104.600   23   
   
  | 94.318   17.573   10.2425   0.0019   -4.164.09   -2.264.344   95.254   17.549   16.737   6.219   -4.164.09   -2.26.344   95.255   179.266   16.737   6.219   -4.164.09   -2.26.344   95.253   19.4645   11.131   11.340   -60.3913   -2.67.116   98.14   198.103   129.516   82.524   -4.12.418   -2.67.216   98.78   212.008   13.031   10.786   -5.84.147   -1.92.218   99.80   219.459   138.945   112.719   -5.84.147   -1.92.218   99.81   219.263   139.243   112.719   -5.84.147   -1.92.218   99.80   25.3773   19.243   112.739   -5.84.147   -1.92.218   99.80   26.601   44.700   170.853   -5.84.147   -1.92.218   90.4600   25.60.73   16.0396   -1.61.596   -1.61.596   104.600   27.5673   16.0380   191.773   -5.23.066   -1.19.580   104.600   27.5673   16.0380   191.773   -5.23.066   -1.19.580   104.600   20.60.81   179.117   222.3153   -5.69.773   -4.84.88   104.600   20.60.82   18.730   22.23.13   -5.69.773   -4.94.88   104.600   20.60.82   18.730   22.23.13   -5.69.773   -4.94.88   104.600   30.60.82   18.730   22.433   -4.65.600   18.511   104.600   30.60.82   18.730   22.433   -4.63.26   -1.93.81   104.600   30.50.82   19.46.65   22.433   -4.67.899   63.044   104.600   318.136   20.8.170   22.533   -4.47.998   12.8410   104.600   23.528   22.336   22.333   -4.47.998   12.8410   104.600   20.528   22.336   22.3336   -4.47.998   12.8410   104.600   20.528   21.236   22.2333   -4.47.998   12.8410   104.600   318.136   20.8.170   22.5337   -4.97.240   104.600   32.539   22.0347   23.233   -4.47.998   12.8410   104.600   23.528   22.336   -4.47.998   22.4019   104.600   23.528   22.336   23.6833   -4.47.998   23.843   104.600   23.528   22.336   23.6833   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.47.998   23.843   104.600   23.528   23.633   -4.07.47.998   23.843   104.600   23   
   | 94.318   175.73   102.225   00.001   -1416.019   -220.341   05.226   175.73   115.335   00.001   -1616.09   -220.341   05.226   175.73   115.335  
00.018   -416.16   -220.341   05.226   175.73   115.33   05.277   T1.340   -60.3913   -267.215   05.235   05.235   05.245   12.205   05.256   05.256   05.256   05.256   05.256   05.256   05.238   05.256   05.256   05.238   05.256   05.251   05.238   05.256   05.251   05.256   05.251   05 | 94.318   175.73   102.225   00.001   -1416.019   -220.341   05.226   175.73   115.335   00.001   -1616.09   -220.341   05.226   175.73   115.335   00.018   -416.16   -220.341   05.226   175.73   115.33   05.277   T1.340   -60.3913   -249.215   05.239   05 | 94.318   175.73   102.225   00.001   -1416.019   -220.341   05.226   175.73   115.335   00.001   -1616.09   -220.341   05.226   175.73   115.335   00.018   -416.16   -220.341   05.226   175.73   115.33   05.277   T1.340   -60.3913   -249.215   05.239   05 | 94.318   17.573   10.2425   0.0019   -4.16.05   -2.26.341   95.254   17.549   16.737   6.2.219   -4.6.69   -2.26.341   95.255   17.549   16.737   6.2.219   -4.6.69   -2.26.341   95.255   19.266   16.737   6.2.219   -4.0.2018   97.629   19.4645   121.311   13.40   -603.913   -2.9.2136   98.14   198.103   129.516   82.564   -4.12.418   -2.6.2136   98.78   212.098   13.031   10.786   -5.84.147   -1.92.218   99.80   219.459   138.945   112.719   -5.84.147   -1.92.218   99.81   219.263   13.031   10.786   -5.84.147   -1.92.218   99.80   25.3773   19.243   113.299   -1.61.596   104.600   26.6.601   44.700   170.853   -5.81.197   -1.92.218   104.600   26.6.601   44.700   170.853   -5.31.992   -1.61.596   104.600   27.5673   16.0386   191.773   -5.23.066   -1.19.208   104.600   27.5673   16.321   27.233   -5.33.06   -1.93.48   104.600   29.5776   18.4572   23.5113   -5.93.56   -2.6.582   104.600   20.5776   18.4572   22.3.613   -5.03.56   -2.6.582   104.600   20.5776   18.4572   22.3.613   -5.03.76   -2.6.882   104.600   20.5776   18.4572   22.3.613   -6.02.240   -2.0.882   104.600   20.5776   18.4572   22.3.613   -6.02.240   -2.0.882   104.600   20.5776   19.4666   22.4.33   -47.2.90   40.918   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   40.918   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.89   21.2.316   23.2.333   -47.2.90   104.6   
   | 94.318   17.573   10.2425   0.0019   -4.16.05   -2.26.341   95.254   17.549   16.737   6.2.219   -4.6.69   -2.26.341   95.255   17.549   16.737   6.2.219   -4.6.69   -2.26.341   95.255   19.266   16.737   6.2.219   -4.0.2018   97.629   19.4645   121.311   13.40   -603.913   -2.9.2136   98.14   198.103   129.516   82.564   -4.12.418   -2.6.2136   98.78   212.098   13.031   10.786   -5.84.147   -1.92.218   99.80   219.459   138.945   112.719   -5.84.147   -1.92.218   99.81   219.263   13.031   10.786   -5.84.147   -1.92.218   99.80   25.3773   19.243   113.299   -1.61.596   104.600   26.6.601   44.700   170.853   -5.81.197   -1.92.218   104.600   26.6.601   44.700   170.853   -5.31.992   -1.61.596   104.600   27.5673   16.0386   191.773   -5.23.066   -1.19.208   104.600   27.5673   16.321   27.233   -5.33.06   -1.93.48   104.600   29.5776   18.4572   23.5113   -5.93.56   -2.6.582   104.600   20.5776   18.4572   22.3.613   -5.03.56   -2.6.582   104.600   20.5776   18.4572   22.3.613   -5.03.76   -2.6.882   104.600   20.5776   18.4572   22.3.613   -6.02.240   -2.0.882   104.600   20.5776   18.4572   22.3.613   -6.02.240   -2.0.882   104.600   20.5776   19.4666   22.4.33   -47.2.90   40.918   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   40.918   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.89   21.2.316   23.2.333   -47.2.90   104.6  
   | 94.318   17.573   10.2425   0.0019   -4.16.05   -2.26.341   95.254   17.549   16.737   6.2.219   -4.6.69   -2.26.341   95.255   17.549   16.737   6.2.219   -4.6.69   -2.26.341   95.255   19.266   16.737   6.2.219   -4.0.2018   97.629   19.4645   121.311   13.40   -603.913   -2.9.2136   98.14   198.103   129.516   82.564   -4.12.418   -2.6.2136   98.78   212.098   13.031   10.786   -5.84.147   -1.92.218   99.80   219.459   138.945   112.719   -5.84.147   -1.92.218   99.81   219.263   13.031   10.786   -5.84.147   -1.92.218   99.80   25.3773   19.243   113.299   -1.61.596   104.600   26.6.601   44.700   170.853   -5.81.197   -1.92.218   104.600   26.6.601   44.700   170.853   -5.31.992   -1.61.596   104.600   27.5673   16.0386   191.773   -5.23.066   -1.19.208   104.600   27.5673   16.321   27.233   -5.33.06   -1.93.48   104.600   29.5776   18.4572   23.5113   -5.93.56   -2.6.582   104.600   20.5776   18.4572   22.3.613   -5.03.56   -2.6.582   104.600   20.5776   18.4572   22.3.613   -5.03.76   -2.6.882   104.600   20.5776   18.4572   22.3.613   -6.02.240   -2.0.882   104.600   20.5776   18.4572   22.3.613   -6.02.240   -2.0.882   104.600   20.5776   19.4666   22.4.33   -47.2.90   40.918   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   40.918   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   23.2.80   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90  
104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.88   21.2.316   23.2.833   -47.2.90   104.600   23.2.89   21.2.316   23.2.333   -47.2.90   104.6   | 94.318   17.573   10.2425   0.0019   -4.16.05   -2.26.341   95.254   17.549   16.737   6.2.219   -4.05.0541   95.255   17.549   16.737   6.2.219   -4.05.0541   95.255   19.266   16.737   6.2.219   -4.05.0513   -2.9.215   97.629   19.4645   121.311   13.40   -6.03.913   -2.9.213   98.14   198.103   12.9.516   82.264   -4.02.013   -2.9.213   98.78   21.2098   13.0.31   10.786   -5.81.16   -2.0.238   99.913   219.829   13.9.243   112.719   -5.84.14   -192.218   99.913   219.829   139.243   112.719   -5.84.14   -192.218   99.913   219.829   139.243   112.719   -5.84.14   -192.218   99.914   21.9829   139.243   112.719   -5.84.14   -192.218   99.915   21.9829   139.243   112.719   -5.84.14   -192.218   99.916   26.601   46.700   170.853   -5.31.992   -167.596   104.600   25.572   15.002   19.173   -5.31.592   -167.596   104.600   27.593   16.032   19.173   -5.31.692   -193.48   104.600   29.572   15.312   27.213   -5.93.56   -193.88   104.600   29.572   16.312   27.213   -5.93.56   -193.88   104.600   29.576   18.452   22.433   -4.95.80   104.600   30.512   194.665   224.533   -4.92.240   40.918   104.600   318.136   20.853   27.5433   -4.47.98   12.846   104.600   31.516   20.523   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   23.5913   -4.49.88   104.600   23.588   23.6913   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   23.693   23.693   104.600   23.588   23.693   23.693   23.588   23.593   23.693   23.693   23.500   23.500   23.693   23.693   23.500   23.500   23.693   23.693   | 94.318   17.573   10.2425   0.0019   -4.16.05   -2.26.341   95.254   17.549   16.737   6.2.219   -4.05.0541   95.255   17.549   16.737   6.2.219   -4.05.0541   95.255   19.266   16.737   6.2.219   -4.05.0513   -2.9.215   97.629   19.4645   121.311   13.40   -6.03.913   -2.9.213   98.14   198.103   12.9.516   82.264  
-4.02.013   -2.9.213   98.78   21.2098   13.0.31   10.786   -5.81.16   -2.0.238   99.913   219.829   13.9.243   112.719   -5.84.14   -192.218   99.913   219.829   139.243   112.719   -5.84.14   -192.218   99.913   219.829   139.243   112.719   -5.84.14   -192.218   99.914   21.9829   139.243   112.719   -5.84.14   -192.218   99.915   21.9829   139.243   112.719   -5.84.14   -192.218   99.916   26.601   46.700   170.853   -5.31.992   -167.596   104.600   25.572   15.002   19.173   -5.31.592   -167.596   104.600   27.593   16.032   19.173   -5.31.692   -193.48   104.600   29.572   15.312   27.213   -5.93.56   -193.88   104.600   29.572   16.312   27.213   -5.93.56   -193.88   104.600   29.576   18.452   22.433   -4.95.80   104.600   30.512   194.665   224.533   -4.92.240   40.918   104.600   318.136   20.853   27.5433   -4.47.98   12.846   104.600   31.516   20.523   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   23.5913   -4.49.88   104.600   23.588   23.6913   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   23.693   23.693   104.600   23.588   23.693   23.693   23.588   23.593   23.693   23.693   23.500   23.500   23.693   23.693   23.500   23.500   23.693   23.693    | 94.318   17.573   10.2425   0.0019   -4.16.05   -2.26.341   95.254   17.549   16.737   6.2.219   -4.05.0541   95.255   17.549   16.737   6.2.219   -4.05.0541   95.255   19.266   16.737   6.2.219   -4.05.0513   -2.9.215   97.629   19.4645   121.311   13.40   -6.03.913   -2.9.213   98.14   198.103   12.9.516   82.264   -4.02.013   -2.9.213   98.78   21.2098   13.0.31   10.786   -5.81.16   -2.0.238   99.913   219.829   13.9.243   112.719   -5.84.14   -192.218   99.913   219.829   139.243   112.719   -5.84.14   -192.218   99.913   219.829   139.243   112.719   -5.84.14   -192.218   99.914   21.9829   139.243   112.719   -5.84.14   -192.218   99.915   21.9829   139.243   112.719   -5.84.14   -192.218   99.916   26.601   46.700   170.853   -5.31.992   -167.596   104.600   25.572   15.002   19.173   -5.31.592   -167.596   104.600   27.593   16.032   19.173   -5.31.692   -193.48   104.600   29.572   15.312   27.213   -5.93.56   -193.88   104.600   29.572   16.312   27.213   -5.93.56   -193.88   104.600   29.576   18.452   22.433   -4.95.80   104.600   30.512   194.665   224.533   -4.92.240   40.918   104.600   318.136   20.853   27.5433   -4.47.98   12.846   104.600   31.516   20.523   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   23.5913   -4.49.88   104.600   23.588   23.6913   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   23.693   23.693   104.600   23.588   23.693   23.693   23.588   23.593   23.693   23.693   23.500   23.500   23.693   23.693   23.500   23.500   23.693   23.693    | 94.318   17.573   10.2425   0.0019   -4.16.05   -2.26.341   95.254   17.549   16.737   6.2.219   -4.05.0541   95.255   17.549   16.737   6.2.219   -4.05.0541   95.255   19.266   16.737   6.2.219   -4.05.0513   -2.9.215   97.629   19.4645   121.311   13.40   -6.03.913   -2.9.213   98.14   198.103   12.9.516   82.264   -4.02.013   -2.9.213   98.78   21.2098   13.0.31   10.786   -5.81.16   -2.0.238   99.913   219.829   13.9.243   112.719   -5.84.14   -192.218   99.913   219.829   139.243   112.719   -5.84.14   -192.218   99.913   219.829   139.243   112.719   -5.84.14   -192.218   99.914   21.9829   139.243   112.719   -5.84.14   -192.218   99.915   21.9829   139.243   112.719   -5.84.14   -192.218   99.916   26.601   46.700   170.853   -5.31.992   -167.596   104.600   25.572   15.002   19.173   -5.31.592   -167.596   104.600   27.593   16.032   19.173   -5.31.692   -193.48   104.600   29.572   15.312   27.213   -5.93.56   -193.88   104.600   29.572   16.312   27.213   -5.93.56   -193.88   104.600   29.576   18.452   22.433   -4.95.80   104.600   30.512   194.665   224.533   -4.92.240   40.918   104.600   318.136   20.853   27.5433   -4.47.98   12.846   104.600   31.516   20.523   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   21.5016   23.5913   -4.49.88   104.600   23.588   23.5913   -4.49.88   104.600   23.588   23.6913   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   -4.49.88   104.600   23.588   23.693   23.693   23.693   104.600   23.588   23.693   23.693   23.588   23.593   23.693   23.693   23.500   23.500   23.693   23.693   23.500   23.500   23.693   23.693    | 94.318   175.73   102.225   00.001   -1416.019   -220.341   05.226   175.73   115.335   00.001   -1616.09   -220.341   05.226   175.73   115.335   00.018   -416.16   -220.341   05.226   175.73   115.33   05.277   T1.340   -60.3913   -249.215   05.239   05 | 94.318   17.573   10.2425   0.0019   -4.164.09   -2.264.344   95.254   17.549   116.337   6.219   -4.164.09   -2.26.344   95.255   179.266   116.337   6.219   -4.164.09   -2.26.344   95.253   19.4645   111.311   11.340   -603.913   -2.67.216   98.14   198.103   129.516   82.524   -4.12.418   -2.67.216   98.78   212.008   13.031   102.786   -5.84.147   -1.92.218   99.31   219.829   139.243   112.719   -5.84.147   -1.92.218   99.31   219.829   139.243   112.719   -5.84.147   -1.92.218   99.32   25.3773   140.00   170.853   -5.84.147   -1.92.218   90.4600   26.601   44.700   170.853   -5.31.992   -1.67.596   104.600   27.5673   160.886   191.773   -5.23.066   -1.19.580   104.600   27.5673   160.886   191.773   -5.23.066   -1.19.580   104.600   20.55778   184.532   23.043   -5.05.773   -4.848   104.600   20.5779   184.552   23.043   -5.05.776   -2.58.22   104.600   20.5779   184.552   23.433   -5.05.776   -2.58.22   104.600   20.5779   184.552   23.433   -4.67.899   63.044   104.600   318.136   20.8.170   22.533   -4.47.899   63.044   104.600   32.538   21.5316   22.54.33   -4.47.899   63.044   104.600   32.538   21.5316   22.5433   -4.47.899   63.044   104.600   23.588   21.5316   23.68.33   -4.47.899   12.8416   104.600   23.588   23.04.47   24.59.27   -4.49.88   
   | 94.318   17.573   10.2425   0.0019   -4.164.09   -2.264.344   95.254   17.549   116.337   6.2119   -4.164.09   -2.26.344   95.254   17.549   116.337   6.2119   -4.164.09   -2.26.344   95.253   19.266   116.337   13.40   -4.12.418   -5.67.306   97.629   19.4645   17.1111   81.040   -6.03.913   -2.97.215   98.14   198.103   129.516   82.524   -4.12.418   -2.67.216   98.78   212.008   13.031   102.786   -584.147   -192.218   99.93   219.459   138.945   112.719   -584.147   -192.218   99.94   21.542   13.9243   112.719   -584.147   -192.218   99.95   25.373   19.243   112.39   -167.596   104.600   25.573   15.6035   -131.399   -167.596   104.600   27.693   160.885   191.773   -533.06   -119.580   104.600   27.693   160.885   191.773   -533.06   -119.580   104.600   20.5776   167.213   202.233   -134.48   104.600   20.5776   184.532   233.613   -50.5377   -9.488   104.600   20.5776   184.522   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   223.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -50.236   -1.19.580   104.600   20.5776   184.532   233.613   -472.240   40.918   104.600   20.5786   20.535   224.533   -472.240   40.918   104.600   20.5786   21.2316   226.533   -472.940   104.600   23.588   21.2316   226.533   -472.49   104.600   23.588   21.2316   226.333   -472.49   104.600   23.588   21.2316   226.333   -472.49   104.600   23.588   21.2316   23.683   -470.745   19.885   104.600   23.588   21.2316   23.683   -470.745   19.885   |
| 95.264 177.549 116,737 62.219 —— GAN 95.254 175.26 116,737 63.219 —— GAN 95.252 119.26 116,737 63.219 —— GAN 95.252 119.251 113.40 —— 412.418 97.629 119.240 119.210 129.516 97.188 —— 85.749 —— 98.749 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 119.249 129.249 119.249 119.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.249 119.249 129.24 | 95.264   177.549   116.737   63.219   
   
   
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                               | 95.264   177.549   116.737   63.219  | 95.264   177.549   116.737   63.219  | 95.264   177.549   116.737   63.219  | 95.264   177.549   116.737   63.219  
   | 95.264   177.549   116.737   63.219   
   | 95.264   177.549   116.737   63.219   
  | 95.264   177.549   116.737   63.219   CAMMA <> BETA.   95.255   179.266   116.337   63.977   TRANSITION   95.353   194.6645   121.351   81.040   -603.913   -267.215   98.140   198.103   129.516   82.264   -124.218   -267.215   98.142   211.003   139.316   82.264   -124.218   -267.215   98.788   212.003   139.31   102.786   -588.116   -220.338   99.913   219.845   138.945   112.719   -584.147   -192.218   99.913   219.845   139.243   113.219   -241.147   -192.218   99.914   219.845   139.243   113.219   -241.147   -192.218   90.600   46.700   170.853   -531.992   -167.596   104.600   256.261   46.700   170.853   -531.992   -167.596   104.600   256.321   127.31   -252.326   -119.380   104.600   256.323   173.34   122.2153   -531.652   -193.48   104.600   256.323   173.34   222.1153   -503.367   -26.822   104.600   256.324   173.34   222.1153   -503.367   -26.822   104.600   256.324   193.723   -46.600   18.611   104.600   305.12   194.645   224.333   -46.600   18.611   104.600   318.136   20.3837   -43.286   -3.886   104.600   318.136   20.3837   -43.286   -3.886   104.600   318.136   20.3837   -47.998   12.840   104.600   325.284   21.2.316   226.337   -47.927   104.600   325.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212   | 95.264   177.549   116.737   63.219   CAMMA <> BETA.   95.255   179.266   116.337   63.977   TRANSITION   95.353   194.6645   121.351   81.040  
-603.913   -267.215   98.140   198.103   129.516   82.264   -124.218   -267.215   98.142   211.003   139.316   82.264   -124.218   -267.215   98.788   212.003   139.31   102.786   -588.116   -220.338   99.913   219.845   138.945   112.719   -584.147   -192.218   99.913   219.845   139.243   113.219   -241.147   -192.218   99.914   219.845   139.243   113.219   -241.147   -192.218   90.600   46.700   170.853   -531.992   -167.596   104.600   256.261   46.700   170.853   -531.992   -167.596   104.600   256.321   127.31   -252.326   -119.380   104.600   256.323   173.34   122.2153   -531.652   -193.48   104.600   256.323   173.34   222.1153   -503.367   -26.822   104.600   256.324   173.34   222.1153   -503.367   -26.822   104.600   256.324   193.723   -46.600   18.611   104.600   305.12   194.645   224.333   -46.600   18.611   104.600   318.136   20.3837   -43.286   -3.886   104.600   318.136   20.3837   -43.286   -3.886   104.600   318.136   20.3837   -47.998   12.840   104.600   325.284   21.2.316   226.337   -47.927   104.600   325.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212    | 95.264   177.549   116.737   63.219   CAMMA <> BETA.   95.255   179.266   116.337   63.977   TRANSITION   95.353   194.6645   121.351   81.040   -603.913   -267.215   98.140   198.103   129.516   82.264   -124.218   -267.215   98.142   211.003   139.316   82.264   -124.218   -267.215   98.788   212.003   139.31   102.786   -588.116   -220.338   99.913   219.845   138.945   112.719   -584.147   -192.218   99.913   219.845   139.243   113.219   -241.147   -192.218   99.914   219.845   139.243   113.219   -241.147   -192.218   90.600   46.700   170.853   -531.992   -167.596   104.600   256.261   46.700   170.853   -531.992   -167.596   104.600   256.321   127.31   -252.326   -119.380   104.600   256.323   173.34   122.2153   -531.652   -193.48   104.600   256.323   173.34   222.1153   -503.367   -26.822   104.600   256.324   173.34   222.1153   -503.367   -26.822   104.600   256.324   193.723   -46.600   18.611   104.600   305.12   194.645   224.333   -46.600   18.611   104.600   318.136   20.3837   -43.286   -3.886   104.600   318.136   20.3837   -43.286   -3.886   104.600   318.136   20.3837   -47.998   12.840   104.600   325.284   21.2.316   226.337   -47.927   104.600   325.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   216.305   20.6833   -47.928   104.600   232.888   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212.840   212.840   232.884   212    | 95.264   177.549   116.737   63.219   CAMMA <> BETA.   95.255   179.266   116.337   63.977   TRANSITION   95.353   194.6645   121.351   81.040   -603.913   -267.215   98.140   198.103   129.516   82.264   -126.215   98.142   211.003   139.316   82.264   -126.215   98.788   212.003   139.316   102.786   -588.116   -203.38   99.913   219.845   138.945   113.719   -584.147   -192.218   99.913   219.845   139.243   113.719   -584.147   -192.218   99.914   219.845   139.243   113.719   -584.147   -192.218   90.600   25.372   146.00   170.853   -531.992   -167.596   104.600   25.372   146.00   170.853   -531.992   -167.596   104.600   25.372   15.342   120.213   -531.606   -119.380   104.600   25.372   173.34   120.213   -531.606   -119.380   104.600   25.372   173.34   222.1153   -503.377   -49.488   104.600   25.376   184.52   224.533   -486.600   18.611   104.600   305.12   194.646   224.533   -482.240   40.918   104.600   318.136   20.3837   275.433   -479.278   104.600   318.136   20.3837   -479.289   104.600   318.136   20.3837   -479.289   104.600   318.136   20.3837   -479.289   104.600   318.136   20.3837   -479.289   104.600   318.136   20.3837   -479.289   104.600   318.136   20.3837   -479.289   104.600   318.136   20.3837   -479.289   10    | 95.264   177.549   116.737   63.219  | 95.264   177.549   116.737   63.219   
   | 95.264   177.549   116.737   63.219  |
| 96.353 186.205 11.351 71.340 -412.418 81.049 194.665 127.111 81.040 -603.913 88.142 207.695 127.111 81.040 -603.913 129.142 12.095 12.055 12.0 | 96.353 186.205 121.351 71.340 -412.418 -267.206 78.219 195.029 194.645 177.111 81.040 -603.913 -249.215 88.140 198.103 198.103 129.516 81.264 77.188 212.029 139.215 195.105 1  
   
   
  | 96.353 186.205 121.351 71.340 -412.418 -267.206 78.149 198.103 198.103 198.104 198.103 198.24 113.719 -584.14 -192.218 99.913 219.829 199.243 113.239 -584.14 -192.218 99.913 219.829 199.243 113.239 -584.14 -192.218 99.913 198.29 199.243 113.239 -584.14 -192.218 198.20 1   
   
   
  | 96.335         186.205         121.351         71.340         -412.418         -267.206           98.140         198.103         129.516         85.264         129.315         129.315           98.142         207.695         129.516         85.264         ETA <>ALPHA           98.18         210.208         139.31         102.78         -588.116         -220.318           99.91         219.459         139.243         112.719         -584.14         -192.218           99.91         219.459         139.243         113.239         -41PHA <>LIQUID           104.600         267.31         146.700         170.835         -131.92         -167.348           104.600         267.325         160.936         -131.73         -53.479         -192.318           104.600         267.325         160.936         -131.39         -143.48         -101.035           104.600         275.37         160.936         191.73         -251.62         -9574           104.600         275.47         167.321         -271.62         -9574         -102.38           104.600         275.47         167.31         -271.62         -9574         -104.48           104.600         275.47         <   
   
   
   
  | 96.353 186.205 121.351 71.340 -412.418 -267.206 98.142 198.103 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -260.216 99.803 219.459 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -167.392 -167.392 104.600 250.535 150.323 112.533 -531.992 -167.386 104.600 29.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5136 20.5136 25.44.073 -6.90.273 10.67.39 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318   
   
   
   
  | 96.353 186.205 121.351 71.340 -412.418 -267.206 98.142 198.103 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -260.216 99.803 219.459 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -167.392 -167.392 104.600 250.535 150.323 112.533 -531.992 -167.386 104.600 29.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5136 20.5136 25.44.073 -6.90.273 10.67.39 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318 104.600 312.084 212.316 22.63.31 -492.240 40.318   
   
   
  | 96.335         186.205         121.351         71.340         -412.418         -267.206           98.140         198.103         129.516         85.264         129.315         129.315           98.142         207.695         129.516         85.264         ETA <>ALPHA           98.18         210.208         139.31         102.78         -588.116         -220.318           99.91         219.459         139.243         112.719         -584.14         -192.218           99.91         219.459         139.243         113.239         -41PHA <>LIQUID           104.600         267.31        
146.700         170.835         -131.92         -167.348           104.600         267.325         160.936         -131.73         -53.479         -192.318           104.600         267.325         160.936         -131.39         -143.48         -101.035           104.600         275.37         160.936         191.73         -251.62         -9574           104.600         275.47         167.321         -271.62         -9574         -102.38           104.600         275.47         167.31         -271.62         -9574         -104.48           104.600         275.47         <   
   
   
   | 96.335         186.205         121.351         71.340         -412.418         -267.206           98.140         198.103         129.516         85.264         129.315         -249.315           98.142         207.695         129.516         85.264         ETA <>ALPHA         -249.315           98.142         207.695         139.31         102.816         87.188         -288.116         -220.318           99.80         219.459         139.243         112.719         -584.14         -192.318           99.91         219.829         113.239         -584.14         -192.318           99.91         219.829         113.239         -584.14         -192.318           104.600         267.31         146.700         170.83         -511.928           104.600         267.32         146.30         173.34         -119.380           104.600         275.63         146.70         170.83         -13.48           104.600         275.63         167.31         -27.23         -143.48           104.600         275.63         167.31         -27.23         -143.48           104.600         275.73         181.31         -27.23         -143.48           104.600   
   
  | 96.353 186.205 121.351 71.340 -412.418 -267.206 98.142 195.103 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -260.216 99.803 219.459 139.243 112.719 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -167.392 -167.392 104.600 250.535 150.323 112.533 -531.992 -167.386 104.600 29.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397 -26.886 104.600 30.5796 184.532 233.613 -500.397
-26.886 104.600 312.084 20.3833 22.44.073 -492.249 40.318 104.600 312.084 212.316 22.5333 -472.249 40.318 104.600 312.084 212.316 22.5333 -472.39 63.044 104.600 32.2588 216.316 22.5333 -472.39 63.044 104.600 32.2588 216.316 22.5333 -472.39 63.044 104.600 32.2588 216.316 22.6333 -472.39 63.044 104.600 32.2588 216.316 22.6333 -472.39 63.044 104.600 32.2588 216.308 317.259 -472.39 63.044 104.600 32.2588 216.308 317.259 -472.39 106.733  
   
   
   | 96.353 186.205 121.351 71.340 -412.418 -267.206 98.142 207.695 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 99.80 219.459 139.243 112.719 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.913 219.829 139.243 113.239 -584.147 -192.218 99.914 219.829 139.243 113.239 -584.147 -192.218 99.915 219.829 139.243 113.239 -584.147 -192.218 99.916 265.325 154.032 181.313 -527.523 -143.48 104.600 256.929 179.117 223.213 -520.569 104.600 29.5796 184.552 233.613 -50.5977 -69.48 104.600 39.5796 184.552 233.613 -50.5977 -69.48 104.600 30.5796 184.552 233.613 -50.5977 -69.48 104.600 30.5796 184.552 233.613 -50.5977 -69.48 104.600 31.218 25.2453 -68.600 18.611 -10.4600 31.2468 224.233 -67.2236 10.4600 31.2468 224.233 -67.2236 10.4600 31.2468 224.233 -67.2236 10.46.83   
   
   | 96.353 186.205 121.351 71.340 -412.418 -267.206 88.149 194.645 127.111 81.040 -603.913 -249.315 88.149 198.103 19.505 129.516 85.264 EFTA <> ALPHA - 99.805 129.516 87.188 - 881.16 -220.318 89.805 129.805 139.243 112.719 -584.147 -192.318 99.913 219.829 139.243 113.219 -584.147 -192.318 99.913 219.829 139.243 113.219 -584.147 -192.318 99.913 219.829 139.243 113.239 -584.147 -192.318 99.913 219.829 139.243 113.239 -584.147 -192.318 99.913 219.829 139.243 113.239 -584.147 -192.318 99.913 219.829 113.239 -167.596 110.4600 267.323 15.4032 181.313 -527.523 -143.448 10.4600 285.328 175.317 -272.336 19.829 175.317 -95.240 10.4600 285.328 175.317 -272.336 10.4600 285.732 175.317 -59.865 10.4600 285.749 175.317 -59.865 10.4600 285.749 175.317 -49.488 10.4600 385.749 175.317 -49.488 10.4600 385.749 275.31 275.32 -437.240 40.918 10.4600 325.884 212.316 285.337 -437.240 40.918 10.4600 325.884 212.316 285.337 -472.240 40.918 10.4600 325.888 216.305 30.883 -70.74.38 10.4600 325.888 216.305 30.883 -70.74.38 19.888 30.744 39.885 210.4400 325.328 216.305 30.883 -70.74.38 19.888 30.74.49 19.888 30.74.4   | 96.353 186.205 121.351 71.340 -412.418 -267.206 98.142 207.695 129.103 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 99.80 219.459 139.243 112.719 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -167.369 104.600 267.325 154.032 181.313 -527.323 -143.488 104.600 285.328 179.117 -223.269 104.600 285.328 179.117 -223.269 104.600 285.789 179.117 -223.2163 -586.209 104.600 385.789 179.117 -223.213 -586.209 104.600 385.789 184.532 -584.73 -686.600 18.611 -10.4600 385.749 104.600 385.789 184.532 -64.939 -462.240 40.318 104.600 325.789 123.613 285.313 -479.275 10.6783 10.4600 325.888 104.600 325.889 123.310 285.313 -479.275 10.6783 10.4600 325.898 123.410 285.313 -707.498 123.410  
   
  | 96.353 186.205 121.351 71.340 -412.418 -267.206 98.142 207.695 129.103 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 98.142 207.695 129.516 85.264 -60.3913 -249.215 99.80 219.459 139.243 112.719 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -584.147 -192.218 99.91 219.829 139.243 113.239 -167.369 104.600 267.325 154.032 181.313 -527.323 -143.488 104.600 285.328 179.117 -223.269 104.600 285.328 179.117 -223.269 104.600 285.789 179.117 -223.2163 -586.209 104.600 385.789 179.117 -223.213 -586.209 104.600 385.789 184.532 -584.73 -686.600 18.611 -10.4600 385.749 104.600 385.789 184.532 -64.939 -462.240 40.318 104.600 325.789 123.613 285.313 -479.275 10.6783 10.4600 325.888 104.600 325.889 123.310 285.313 -479.275 10.6783 10.4600 325.898 123.410 285.313 -707.498 123.410  
   
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| 104.600   253.773   139.243   160.956   160.   | 104-600 253.773 193.243 160.936 TRANSITION 104-600 260.601 146.700 170.833 -531.992 -161.536 104-600 273.693 160.886 191.773 -523.056 -119.586 104-600 273.643 160.886 191.773 -523.056 -119.580 104-600 285.328 1773.84 212.693 -518.622 -19.5374 104-600 285.328 1773.84 212.693 -518.622 -95.574 104-600 285.778 1773.84 212.693 -518.622 -95.574 104-600 285.778 184.522 233.613 -509.772 -49.483 104-600 380.662 189.720 244.073 -509.773 -50.937 104-600 380.764 189.350 244.073 -50.937 104-600 381.35 264.993 492.240 40.918 104-600 318.135 208.370 264.993 -492.240 40.918 104-600 318.136 208.371 -479.273 106.738 -479.278 104-600 312.084 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278 104-600 325.888 212.316 208.373 -479.278  
   
   
  | 104-600 253.773 193.243 160.956 TRANSITION 104-600 260.601 146.700 170.833 -531.992 -1615.96 104-600 265.351 164.032 181.313 -2527.523 -1615.96 104-600 275.673 160.886 191.773 -523.056 -119.580 104-600 285.328 173.341 272.233 -518.672 -95.974 104-600 285.328 173.344 272.693 -514.191 -77.614 104-600 285.796 173.117 223.513 -509.777 -49.483 104-600 380.662 189.720 244.073 -509.777 -65.82 104-600 380.662 189.720 244.073 -509.776 -3.886 104-600 380.662 189.720 244.073 -509.776 -3.886 104-600 380.764 199.330 244.073 -492.240 40.918 104-600 318.136 280.170 285.931 -487.899 61.044 -100.4600 322.084 212.316 296.373 -487.899 61.044 -100.4600 322.084 212.316 296.373 -487.899 61.044 -100.4600 322.084 212.316 296.373 -487.899 10.473 112.316 296.373 -47.938 112.419 -100.788 112.410 -100.4600 322.888 21.2316 296.373 -47.938 112.410 -100.4600 322.888 21.2316 317.233 -47.498 112.410 -100.4600 32.2518 21.2316 296.373 -47.498 112.410 -100.4600 32.2518 21.2316 296.373 -47.498 112.410 -100.4600 32.2518 21.2316 296.373 -47.498 112.410 -100.4600 32.2518 21.2316 296.373 -47.498 112.410 -100.4600 32.2518 21.2316 296.373 -47.498 112.410 -100.4600 32.2518 24.998 112.410 -100.4600 32.2518 24.998 112.410 -100.4600 32.2518 24.998 112.410 -100.4600 32.2518 24.998 112.410 -100.4600 32.2518 24.998 112.410 -100.4600 32.2518 24.998 112.410 -100.4600 32.2518 24.998 112.410 -100.4600 32.2518 24.998 112.410 -100.4600 32.2518 24.998 24.9   
   
   
  | 194,600         253.773         193.434         166,936         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,523         154,032         181,313         -237,532         -143,438           104,600         275,673         160,886         191,773         -523,506         -19,538           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,798         184,532         234,413         -77,614         -77,614           104,600         380,578         184,532         244,073         -60,577         -5,488           104,600         380,712         184,646         254,433         -49,688         18,611         -1,866           104,600         390,714         193,390         244,073         -600,776         -1,866         18,611           104,600         390,714         193,390         244,073         -400,790         18,611         -1,866           104,600         313,104         200,377         -487,389         63,044 </td <td>194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240<!--</td--><td>194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240<!--</td--><td>194,600         253.773         193.434         166,936         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,523         154,032         181,313         -237,532         -143,438           104,600         275,673         160,886         191,773         -523,506         -19,538           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,798         184,532         234,413         -77,614         -77,614           104,600         380,578         184,532         244,073         -60,577         -5,488           104,600         380,712         184,646         254,433         -49,688         18,611         -1,866           104,600         390,714         193,390         244,073         -600,776         -1,866         18,611           104,600         390,714         193,390         244,073         -400,790         18,611         -1,866           104,600         313,104         200,377         -487,389         63,044<!--</td--><td>1945.00         253.773         1924.34         160.956         TRANSITION           1046.00         260.601         146.700         170.833         -531.992         -167.596           1046.00         275.325         154.032         181.313         -237.532         -143.483           1046.00         275.673         160.886         191.773         -523.056         -195.38           1046.00         285.338         173.341         217.2693         -118.622         -95.974           1046.00         285.338         173.341         217.693         -314.191         -77.641           1046.00         285.798         184.532         233.643         -80.9771         -49.488           1046.00         380.652         184.532         244.073         -800.776         -13.866           1046.00         380.764         193.406         244.073         -496.600         18.611         -18.61           1046.00         380.776         184.646         254.333         -496.600         40.918         -18.61           1046.00         380.776         180.353         275.433         -487.899         65.044         -18.616           1046.00         313.24         212.316         296.373         -474</td><td>194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240<!--</td--><td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646
254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191
-72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 25,453 -46,500 104-600 385-328 14,034 20,835 275,433 -46,292 104-600 318,136 208-37 -47,928 186,119 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,729 -47,738 104-600 325-888 12,320 -47,729 19,885 -47,730</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,310
172,310 172,31</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831  
-47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td></td></td></td></td> | 194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240 </td <td>194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240<!--</td--><td>194,600         253.773         193.434         166,936         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,523         154,032         181,313         -237,532         -143,438           104,600         275,673         160,886         191,773         -523,506         -19,538           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,798         184,532         234,413         -77,614         -77,614           104,600         380,578         184,532         244,073         -60,577         -5,488           104,600         380,712         184,646         254,433         -49,688         18,611         -1,866           104,600         390,714         193,390         244,073         -600,776         -1,866         18,611           104,600         390,714         193,390         244,073         -400,790         18,611         -1,866           104,600         313,104         200,377         -487,389         63,044<!--</td--><td>1945.00         253.773         1924.34         160.956         TRANSITION           1046.00         260.601         146.700         170.833         -531.992         -167.596           1046.00         275.325         154.032         181.313         -237.532         -143.483           1046.00         275.673         160.886         191.773         -523.056         -195.38           1046.00         285.338         173.341         217.2693         -118.622         -95.974           1046.00         285.338         173.341         217.693         -314.191         -77.641           1046.00         285.798         184.532         233.643         -80.9771         -49.488           1046.00         380.652         184.532         244.073         -800.776         -13.866           1046.00         380.764         193.406         244.073         -496.600         18.611         -18.61           1046.00         380.776         184.646         254.333         -496.600         40.918         -18.61           1046.00         380.776         180.353         275.433         -487.899         65.044         -18.616           1046.00         313.24         212.316         296.373         -474</td><td>194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240<!--</td--><td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305
-474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500
18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 25,453 -46,500 104-600 385-328 14,034 20,835 275,433 -46,292 104-600 318,136 208-37 -47,928 186,119 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,729 -47,738 104-600 325-888 12,320 -47,729 19,885 -47,730</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,310
172,310 172,31</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838   -47.838
  -47.838  </td></td></td></td> | 194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240 </td <td>194,600         253.773         193.434         166,936         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,523         154,032         181,313         -237,532         -143,438           104,600         275,673         160,886         191,773         -523,506         -19,538           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,798         184,532         234,413         -77,614         -77,614           104,600         380,578         184,532         244,073         -60,577         -5,488           104,600         380,712         184,646         254,433         -49,688         18,611         -1,866           104,600         390,714         193,390         244,073         -600,776         -1,866         18,611           104,600         390,714         193,390         244,073         -400,790         18,611         -1,866           104,600         313,104         200,377         -487,389         63,044<!--</td--><td>1945.00         253.773         1924.34         160.956         TRANSITION           1046.00         260.601         146.700         170.833         -531.992         -167.596           1046.00         275.325         154.032         181.313         -237.532         -143.483           1046.00         275.673         160.886         191.773         -523.056         -195.38           1046.00         285.338         173.341         217.2693         -118.622         -95.974           1046.00         285.338         173.341         217.693         -314.191         -77.641           1046.00         285.798         184.532         233.643         -80.9771         -49.488           1046.00         380.652         184.532         244.073         -800.776         -13.866           1046.00         380.764         193.406         244.073         -496.600         18.611         -18.61           1046.00         380.776         184.646         254.333         -496.600         40.918         -18.61           1046.00         380.776         180.353         275.433         -487.899         65.044         -18.616           1046.00         313.24         212.316         296.373         -474</td><td>194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240<!--</td--><td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600  
285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098
-470.498 18.4098 -470.498 18.4098 -470.498 18.4098 -470.498 18.4098</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 25,453 -46,500 104-600 385-328 14,034 20,835 275,433 -46,292 104-600 318,136 208-37 -47,928 186,119 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,729 -47,738 104-600 325-888 12,320 -47,729 19,885 -47,730</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310 172,310
172,310 172,31</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td></td></td> | 194,600         253.773         193.434         166,936         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,523         154,032         181,313         -237,532         -143,438           104,600         275,673         160,886         191,773         -523,506         -19,538           104,600         285,338         173,384         217,693         -514,191         -77,614           104,600         285,338         173,384         217,693         -514,191  
      -77,614           104,600         285,798         184,532         234,413         -77,614         -77,614           104,600         380,578         184,532         244,073         -60,577         -5,488           104,600         380,712         184,646         254,433         -49,688         18,611         -1,866           104,600         390,714         193,390         244,073         -600,776         -1,866         18,611           104,600         390,714         193,390         244,073         -400,790         18,611         -1,866           104,600         313,104         200,377         -487,389         63,044 </td <td>1945.00         253.773         1924.34         160.956         TRANSITION           1046.00         260.601         146.700         170.833         -531.992         -167.596           1046.00         275.325         154.032         181.313         -237.532         -143.483           1046.00         275.673         160.886         191.773         -523.056         -195.38           1046.00         285.338         173.341         217.2693         -118.622         -95.974           1046.00         285.338         173.341         217.693         -314.191         -77.641           1046.00         285.798         184.532         233.643         -80.9771         -49.488           1046.00         380.652         184.532         244.073         -800.776         -13.866           1046.00         380.764         193.406         244.073         -496.600         18.611         -18.61           1046.00         380.776         184.646         254.333         -496.600         40.918         -18.61           1046.00         380.776         180.353         275.433         -487.899         65.044         -18.616           1046.00         313.24         212.316         296.373         -474</td> <td>194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712         194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240<!--</td--><td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888
  225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533
-496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 25,453 -46,500 104-600 385-328 14,034 20,835 275,433 -46,292 104-600 318,136 208-37 -47,928 186,119 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,729 -47,738 104-600 325-888 12,320 -47,729 19,885 -47,730</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td><td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,310
172,310 172,31</td><td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td><td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td><td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td></td> | 1945.00         253.773         1924.34         160.956         TRANSITION           1046.00         260.601         146.700         170.833         -531.992         -167.596           1046.00         275.325         154.032         181.313         -237.532         -143.483           1046.00         275.673         160.886         191.773         -523.056         -195.38           1046.00         285.338         173.341         217.2693         -118.622         -95.974           1046.00         285.338         173.341         217.693         -314.191         -77.641           1046.00         285.798         184.532         233.643         -80.9771         -49.488           1046.00         380.652         184.532         244.073         -800.776         -13.866           1046.00         380.764         193.406         244.073         -496.600         18.611         -18.61           1046.00         380.776         184.646         254.333         -496.600         40.918         -18.61           1046.00         380.776         180.353         275.433         -487.899         65.044         -18.616           1046.00         313.24         212.316         296.373         -474   
   
   | 194,600         253.773         19243         166,956         TRANSITION           104,600         260,601         146,700         170,833         -531,992         -161,536           104,600         273,459         160,886         191,773         -523,536         -161,536           104,600         275,673         160,886         191,773         -523,506         -19,539           104,600         285,538         173,384         217,673         -518,622         -95,974           104,600         285,578         173,184         217,693         -514,191         -77,614           104,600         285,778         184,522         234,013         -509,771         -78,488           104,600         380,578         184,522         244,073         -600,977         -3,882           104,600         380,512         194,646         254,433         -49,488         18,611         -1,886           104,600         380,712      
  194,646         254,433         -49,500         18,611         -1,886           104,600         380,716         199,330         244,073         -600,976         40,918         -1,886           104,600         380,716         199,330         264,933         -492,240 </td <td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td> <td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td> <td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td> <td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td> <td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498
18.4098 -470.498 18.4098</td> <td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td> <td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td> <td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td> <td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td> <td>104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410
-166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.</td> <td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 25,453 -46,500 104-600 385-328 14,034 20,835 275,433 -46,292 104-600 318,136 208-37 -47,928 186,119 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,729 -47,738 104-600 325-888 12,320 -47,729 19,885 -47,730</td> <td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td> <td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td> <td>104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31</td> <td>104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098</td> <td>  104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601  
146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2</td> <td>  104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  </td> | 104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838  
   
  | 104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098  | 104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2  
   
   | 104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2  
   
  | 104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098  | 104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098  | 104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098  | 104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.  
  | 104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.888
225.888 225.888 225.  | 104-600 253.773 193-243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.567 163.281 181.313 -572.326 -167.596 104-600 273-693 160.886 191.773 -523.066 -1193.48 104-600 285.328 173.384 212.693 -151.8622 -165.54 104-600 285.328 173.384 212.693 -151.8622 -155.74 104-600 285.328 173.384 212.693 -514.191 -72.614 104-600 285.328 173.384 213.613 -505.377 -46.488 104-600 285.312 194.646 254.533 -505.377 -46.882 104-600 385.312 194.646 254.533 -496.600 18.611 -164.600 385.312 194.646 254.533 -496.200 40.918 -164.600 318.136 208.170 285.913 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.370 -483.756 84.996 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 213.316 208.373 -474.998 138.410 -166.600 325.889 225.142.31 -483.774 325.888 213.316 208.373 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.314 -166.783 -474.998 138.410 -166.600 325.888 225.888 225.888 225.888 225.888 225.888 225.888 225.888 225.888 225.888 225.888 225.888 225.888
225.888 225.   | 104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 25,453 -46,500 104-600 385-328 14,034 20,835 275,433 -46,292 104-600 318,136 208-37 -47,928 186,119 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,316 20,833 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,498 104-600 325-888 12,320 -47,729 -47,738 104-600 325-888 12,320 -47,729 19,885 -47,730  | 104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833
-531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31 | 104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31 | 104-600 253.773 193-243 160,936 TRANSITION 104-600 260,601 146,700 170,833 -531,992 -167.56 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 273-693 160,886 191,773 -523,066 -119,348 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 20,233 -518,622 -165,549 104-600 285-328 173-31 22,31,53 -509,772 -49,488 104-600 285-328 173-31,513 -509,772 -46,488 104-600 285-328 173-32,313 -509,377 -46,488 104-600 385-328 189,720 24,473 -509,367 -3,886 104-600 385-328 184-64 254,533 -496,500 104-600 385-328 14,034 20,835 275,433 -487,299 104,698 104-600 318,136 208,170 285,913 -483,776 84,996 -106,600 104-600 325-888 173-306,390 163,733 -47,998 104-600 325-888 173-306,390 172,390 172,31 | 104-600 253.773 193.243 160.936 TRANSITION 104-600 260.661 146.700 170.833 -531.992 -167.596 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 273.693 160.886 191.773 -523.066 -1193.69 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -5114.191 -72.614 104-600 285.328 173.84 212.693 -509.773 -49.488 104-600 285.374 173.84 213.613 -509.773 -49.488 104-600 385.312 194-646 254.333 -509.374 -49.488 104-600 385.312 194-646 254.333 -496.600 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.646 254.333 -496.500 18.611 -10.4600 385.312 194.634 276 285.313 -495.200 18.611 -10.4600 385.328 215.305 26.333 -474.998 18.498 -10.4600 325.888 215.305 20.6233 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -10.4600 325.888 215.305 -474.998 18.498 -474.998 18.4098 -10.4600 325.888 215.305 -474.998 18.4098 -474.998 18.4098 -474.998 18.4098 -470.498 18.4098  | 104.600   253.773   192.43   160.936   TRANSTITION     104.600   265.601   146.700   170.833   -5311.992   -1615.396     104.600   267.332   154.032   181.313   -2377.323   -143.488     104.600   285.323   173.384   217.653   -5313.66     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   173.384   217.653   -518.622   -95.974     104.600   285.732   184.532   233.613   -500.776   -45.488     104.600   385.312   194.646   254.533   -450.660     104.600   385.312   194.646   254.533   -450.260     104.600   385.312   236.317   -457.890     104.600   315.316   295.320   -472.330     104.600   325.884   212.316   226.373   -479.275     104.600   325.884   212.316   226.373   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -279.275   -479.275     104.600   325.888   225.147   -479.275   -479.275     104.600   225.889   225.147   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.285   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.885   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.289   225.147   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275     104.600   225.275  
-479.275   -479.275   -479.275   -479.275     104.600   225.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.275   -479.2  | 104.600   253.773   193.243   160.956   TRANSITION     104.600   260.601   146.700   170.833   -531.992   -161.596     104.600   273.52   163.886   191.73   -523.526   -193.892     104.600   285.328   173.384   212.693   -531.962   -193.892     104.600   285.328   173.384   212.693   -518.622   -95.974     104.600   285.738   173.384   212.693   -518.622   -95.974     104.600   285.738   184.532   -24.4773   -50.977   -49.488     104.600   395.736   184.525   -24.4773   -50.977   -26.828     104.600   395.716   199.250   24.4073   -950.770   -3.886     104.600   395.716   199.250   24.4073   -950.290   -492.890     104.600   315.816   29.320   -492.240   -492.890     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   216.302   -47.931   -47.931   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.931     104.600   315.888   220.147   317.293   -47.438   -47.831   -47.831     104.600   315.888   220.147   317.293   -47.438   -47.838      |
| 104.600         267.352         154.032         181.313         -275.23           104.600         273.633         164.032         181.313         -573.523           104.600         285.328         167.321         202.233         -518.622           104.600         285.328         179.117         223.153         -599.772           104.600         280.693         179.117         223.153         -599.772           104.600         300.662         184.322         23.4613         -509.772           104.600         300.662         189.720         244.073         -500.976           104.600         305.312         194.646         254.533         -496.600           104.600         314.034         203.833         275.433         -496.600           104.600         318.136         208.170         285.913         -483.576           104.600         318.136         208.170         285.913         -483.576           104.600         325.888         716.306         376.833         -479.275   | 104.600   257.332   143.032   153.13   257.233   140.539   140.650   277.532   140.650   277.532   140.650   277.532   140.650   277.532   140.650   277.532   140.650   277.532   140.650   277.532   177.342   277.233   277.2  
   
   
  | 104.600   257.332   143.032   113.13   257.533   140.539   140.650   277.532   143.032   140.650   277.533   143.032   143.0   
   
   
  | 104.600   267.332   143.032   181.313   2737.533   140.539   140.650   273.543   140.886   191.73   -513.066   -191.539   140.660   273.543   160.886   191.73   -513.066   -191.539   140.660   285.338   173.344   211.693   -514.191   -72.614   140.660   290.5796   173.117   273.233   -518.622   -95.974   140.660   290.5796   184.532   -490.887   -490.887   140.660   290.764   199.390   244.073   -490.690   18.611   -490.690   140.   
   
   
   
  | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.532   143.032   181.313   2737.533   140.4500   273.633   160.886   191.733   -513.066   -191.5300   104.600   285.333   173.344   211.693   -5114.191   -72.614   104.600   290.5796   173.117   273.233   -5114.191   -72.614   104.600   290.5796   184.532   233.613   -500.977   -50.832   104.600   290.764   199.330   244.073   -490.480   18.611   -72.614   104.600   390.764   199.330   244.073   -490.240   40.918   -490.480   104.600   314.191   235.533   245.234   40.918   -490.480   104.600   322.04   -20.077   285.913   -483.75   84.996   104.600   322.04   -20.077   285.913   -483.75   84.996   104.600   322.04   212.316   296.373   -474.998   244   
   
   
   
  | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.532   143.032   181.313   2737.533   140.4500   273.633   160.886   191.733   -513.066   -191.5300   104.600   285.333   173.344   211.693   -5114.191   -72.614   104.600   290.5796   173.117   273.233   -5114.191   -72.614   104.600   290.5796   184.532   233.613   -500.977   -50.832   104.600   290.764   199.330   244.073   -490.480   18.611   -72.614   104.600   390.764   199.330   244.073   -490.240   40.918   -490.480   104.600   314.191   235.533   245.234   40.918   -490.480   104.600   322.04   -20.077   285.913   -483.75   84.996   104.600   322.04   -20.077   285.913   -483.75   84.996   104.600   322.04   212.316   296.373   -474.998   244   
   
   
  | 104.600   267.332   143.032   181.313   2737.533   140.539   140.650   273.543   140.886   191.73   -513.066   -191.539   140.660   273.543   160.886   191.73   -513.066   -191.539   140.660   285.338   173.344   211.693   -514.191   -72.614   140.660   290.5796   173.117   273.233   -518.622   -95.974   140.660   290.5796   184.532   -490.887   -490.887   140.660   290.764   199.390   244.073   -490.897   -490.887   140.660   130.976   199.390   244.073   -490.897   -490.897   -490.897   -490.897   -490.897   -490.897   -490.897   -490.897   -490.897   -490.897   -490.897   -490.897  
-490.897      
   
   
  | 104.600   267.332   143.032   181.313   2737.533   140.539   140.650   273.532   143.032   143   
   
   | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.532   143.032   181.313   2737.533   140.4500   273.633   160.886   191.733   -513.066   -191.5300   104.600   285.333   173.344   211.693   -5114.191   -72.614   104.600   290.5796   173.117   273.233   -5114.191   -72.614   104.600   290.5796   184.532   233.613   -500.977   -50.832   104.600   290.764   199.330   244.073   -490.480   18.611   -72.614   104.600   390.764   199.330   244.073   -490.240   40.918   -490.480   104.600   314.191   235.533   245.234   40.918   -490.480   104.600   322.04   -20.077   285.913   -483.75   84.996   104.600   322.04   -20.077   285.913   -483.75   84.996   104.600   322.04   212.316   296.373   -474.998   244.998  
244.998   244  
   
   
  | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.5673   160.866   191.313   273.7533   140.4500   273.6673   160.866   191.713   -233.066   191.5300   191.6500   285.333   173.334   211.693   -5114.191   -72.614   191.6600   290.5796   173.117   221.233   -5114.191   -72.614   191.6600   290.5796   184.532   233.613   -500.977   -495.483   194.600   390.572   184.572   244.073   -500.976   -50.876   194.600   194.646   254.433   -492.240   40.918   -492.400   194.640   194.640   244.073   -492.240   40.918   -492.400   194.640   194.640   245.833   -492.240   40.918   -492.400   194.640   194.640   225.833   243.276   244.933   -492.240   40.918   -492.400   194.640   225.833   243.276   244.938   243.276   244.938  
   
  | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.532   143.032   181.313   2737.533   140.4500   273.543   160.886   191.733   -53.306   -195.306   191.5306    | 104.600   267.332   145.032   181.313   2737.533   140.4500   273.543   160.886   191.733   -523.066   -191.530   160.650   273.543   160.886   191.733   -523.066   -191.530   160.650   285.333   173.334   212.693   -518.622   -95.574   164.600   290.5796   173.117   272.333   -538.622   -95.574   -95.576   164.600   290.5796   184.532   233.613   -590.577   -26.582   164.600   290.576   184.532   246.600   246.645   246.542   246.600   266.644   266.644   266.600   266.644   266  
   
   | 104.600   267.332   145.032   181.313   2737.533   140.4500   273.543   160.886   191.733   -523.066   -191.530   160.650   273.543   160.886   191.733   -523.066   -191.530   160.650   285.333   173.334   212.693   -518.622   -95.574   164.600   290.5796   173.117   272.333   -538.622   -95.574   -95.576   164.600   290.5796   184.532   233.613   -590.577   -26.582   164.600   290.576   184.532   246.600   246.645   246.542   246.600   266.644   266.644   266.600   266.644   266  
   
                                    | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.532   143.032   181.313   2737.533   140.4500   273.543   160.886   191.733   -53.306   -195.306   191.5306    | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.532   143.032   181.313   2737.533   140.4500   273.543   160.886   191.733   -53.306   -195.306   191.5306    | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.532   143.032   181.313   2737.533   140.4500   273.543   160.886   191.733   -53.306   -195.306   191.5306    | 104.600   267.332   140.32   151.31   151.32  
  | 104.600   267.332   140.32   151.31   151.32   
  | 104.600   267.332   140.32   151.31   151.32  
151.32     | 104.600   267.332   143.03   153.03   153.05   150.595   160.586   191.773   153.056   119.586   140.600   277.573   163.056  | 104.600   267.332   143.03   153.03   153.05   150.595   160.586   191.773   153.056   119.586   140.600   277.573   163.056   163.056  
163.056   | 104.600   267.332   143.03   153.03   153.05   150.595   160.586   191.773   153.056   119.586   140.600   277.573   163.056   | 104.600   267.332   143.03   153.03   153.05   150.595   160.586   191.773   153.056   119.586   140.600   277.573   163.056   | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.532   143.032   181.313   2737.533   140.4500   273.543   160.886   191.733   -53.306   -195.306   191.5306    | 104.600   267.332   145.032   181.313   2737.533   140.4500   273.543   160.886   191.733   -523.066   -191.530   160.650   273.543   160.886   191.733   -523.066   -191.530   160.650   285.333   173.334   212.693   -518.622   -95.574   164.600   290.5796   173.117   272.333   -538.622   -95.574   -95.576   164.600   290.5796   184.532   233.613   -590.577   -26.582   164.600   290.576   184.532   246.600   246.645   246.542   246.600   266.644   266.644   266.600   266.644   266.644  
266.644   266.644   266.644   266.644   266.644   266.644   266.644   266.644   266.644   266.644   266  | 104.600   267.332   143.032   181.313   2737.533   140.4500   273.5673   160.866   191.313   273.7533   140.4500   273.6673   160.866   191.713   -233.066   191.5300   191.6500   285.333   173.334   211.693   -5114.191   -72.614   191.6600   290.5796   173.117   221.233   -5114.191   -72.614   191.6600   290.5796   184.532   233.613   -500.977   -495.483   194.600   390.572   184.572   244.073   -500.976   -50.876   194.600   194.646   254.433   -492.240   40.918   -492.400   194.640   194.640   244.073   -492.240   40.918   -492.400   194.640   194.640   245.833   -492.240   40.918   -492.400   194.640   194.640   225.833   243.276   244.933   -492.240   40.918   -492.400   194.640   225.833   243.276   244.938   243.276   244.938      |
| 104,600   273,603   101,773   -523,506   104,600   285,328   163,281   202,233   -518,622   104,600   285,328   173,384   212,633   -514,191   104,600   280,693   179,117   223,153   -509,772   104,600   300,662   189,720   244,073   -500,976   104,600   305,741   104,646   245,333   -496,600   104,600   318,136   208,170   285,913   -483,576   104,600   318,136   208,170   285,913   -483,576   104,600   325,848   208,170   285,913   -483,576   104,600   325,848   208,170   285,913   -483,576   246,600   285,913   -483,576   246,600   285,913   -483,576   246,600   285,913   -483,576   246,600   285,913   -483,576   246,600   285,913   -483,576   246,600   285,913   -483,576   246,600   285,913   -483,576   246,600   285,913   -483,576   246,600   285,913   -483,576   246,600   246,6   | 104,600   273,663   160,886   191,773   -573,306   -119,580   104,600   273,671   167,321   202,223   -518,622   -119,580   104,600   279,572   173,344   212,693   -514,191   -72,574   104,600   279,576   179,117   223,113   -509,772   -49,488   104,600   290,596   189,720   244,073   -509,577   -26,882   104,600   300,576   186,720   244,073   -500,576   -3,886   104,600   300,776   199,350   264,993   -492,240   40,981   104,600   318,136   206,778   275,453   -487,899   63,044   -104,600   318,136   206,778   206,778   275,453   -487,899   63,044   -104,600   322,084   212,316   296,373   -479,278   106,789   104,600   322,084   211,316   296,373   -479,278   106,789   -104,600   275,888   216,305   300,478   206,373   -479,278   106,789   -104,600   275,888   216,305   300,478   206,373   -479,278   106,789   -104,600   275,888   216,305   300,478   206,373   -479,278   212,410   -479,278   21  
   
   
  | 104.600   2773-633   160.886   191.773   -573.366   -1195.80   104.600   285.328   173.34   2702.233   -518.622   -1195.80   104.600   285.328   173.344   2702.233   -518.622   -75.514   104.600   285.328   173.344   2712.693   -518.622   -72.514   104.600   280.5762   184.572   244.073   -505.857   -72.514   104.600   300.562   187.720   244.073   -505.877   -26.882   104.600   300.764   1993.390   264.993   -492.240   40.918   104.600   312.816   285.373   -487.289   40.918   -492.240   40.918   104.600   312.816   285.373   -487.879   40.918   104.600   322.084   212.316   296.373   -479.275   106.783   106.600   232.882   216.305   30.044   -47.992   30.044   -47.   
   
   
  | 104,600   273,643   163,184   191,773   -573,356   -119,580   104,600   285,338   173,344   270,233   -518,622   -19,580   104,600   285,338   173,344   270,233   -518,622   -75,614   104,600   280,578   173,117   223,133   -509,777   -64,488   104,600   290,576   184,522   244,073   -509,777   -64,488   104,600   290,774   194,646   244,073   -490,576   186,11   -186,640   290,774   193,350   244,073   -492,340   40,918   -104,600   318,134   203,833   245,234   467,234   467,244   104,600   312,846   212,346   285,373   -487,289   43,996   104,600   322,848   216,318   285,313   -479,278   106,778   -19,400   225,593   247,998   247,998   247,998   212,440   -19,400   225,593   247,998   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,598   2   
   
   
   
  | 104.600   2773-673   160.886   191.773   -7513.066   -1195.80   104.600   285.378   175.341   2702.733   -518.622   -1195.80   104.600   285.378   175.344   2702.733   -518.622   -75.614   104.600   250.5778   175.344   2712.693   -715.414   104.600   250.5778   -715.413   -715.414   104.600   250.5778   -715.413   -509.777   -64.488   104.600   300.572   189.732   -74.073   -700.576   -13.886   104.600   300.774   193.350   244.773   -486.600   18.611   -716.400   104.600   300.774   109.379   -487.240   40.918   -40.488   -40.   
   
   
   
  | 104.600   2773-673   160.886   191.773   -7513.066   -1195.80   104.600   285.378   175.341   2702.733   -518.622   -1195.80   104.600   285.378   175.344   2702.733   -518.622   -75.614   104.600   250.5778   175.344   2712.693   -715.414   104.600   250.5778   -715.413   -715.414   104.600   250.5778   -715.413   -509.777   -64.488   104.600   300.572   189.732   -74.073   -700.576   -13.886   104.600   300.774   193.350   244.773   -486.600   18.611   -716.400   104.600   300.774   109.379   -487.240   40.918   -40.488   -40.   
   
   
  | 104,600   273,643   163,184   191,773   -573,356   -119,580   104,600   285,338   173,344   270,233   -518,622   -19,580   104,600   285,338   173,344   270,233   -518,622   -75,614   104,600   280,578   173,117   223,133   -509,777   -64,488   104,600   290,576   184,522   244,073   -509,777   -64,488   104,600   290,774   194,646   244,073   -490,576   186,11   -186,640   290,774   193,350   244,073   -492,340   40,918   -104,600   318,134   203,833   245,234   467,234   467,244   104,600   312,846   212,346   285,373   -487,289   43,996   104,600   322,848   216,318   285,313  
-479,278   106,778   -19,400   225,593   247,998   247,998   247,998   212,440   -19,400   225,593   247,998   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   225,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,998   212,440   -19,400   22,593   247,598   247,   
   
   
   | 104,600   273,663   160,886   191,773   -573,506   -119,580   104,600   285,318   173,344   210,233   -518,622   -119,580   104,600   285,318   173,344   2112,693   -1314,191   -72,614   104,600   285,328   173,134   2112,693   -134,191   -72,614   104,600   280,570   184,522   -33,613   -509,777   -69,488   104,600   300,576   189,720   244,073   -500,576   -18,62   104,600   316,312   194,646   244,073   -49,248   40,616   20,9276   193,320   -487,240   40,918   -104,600   314,134   203,837   245,437   -487,899   63,044   -104,600   312,316   285,313   -487,289   104,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   106,783   -487,289   
   
  | 104.600   2773-673   160.886   191.773   -7513.066   -1195.80   104.600   285.378   175.341   2702.733   -518.622   -1195.80   104.600   285.378   175.344   2702.733   -518.622   -75.614   104.600   250.5778   175.344   2712.693   -715.414   104.600   250.5778   -715.413   -715.414   104.600   250.5778   -715.413   -509.777   -64.488   104.600   300.572   189.732   -74.073   -700.576   -13.886   104.600   300.774   193.350   244.773   -486.600   18.611   -716.400   104.600   300.774   109.379   -487.240   40.918   -40.488  
-40.488   -40.   
   
   
   | 104,600   273,667   160,886   191,773   -523,306   -119580   104,600   279,671   167,321   223,33   -518,622   -195,974   104,600   290,693   179,117   223,153   -509,772   -95,974   104,600   290,693   179,117   223,153   -509,772   -49,488   104,600   295,764   184,522   233,613   -509,777   -49,488   104,600   305,317   194,646   254,533   -496,600   18,611   -104,600   305,317   194,646   254,593   -496,200   18,611   -104,600   318,136   208,170   285,913   -487,899   40,918   -104,600   312,888   216,305   216,30  
   
   | 104,600   273,667   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -19,5974   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -500,376   -3,886   104,600   305,312   194,646   254,333   -496,600   18,611   -10,600   200,376   19,839   254,073   -496,200   18,611   -10,600   21,838   208,170   285,913   -487,899   63,044   104,600   322,888   21,5305   26,333   -474,988   128,410   104,600   322,888   223,017   317,293   -470,745   19,885   -400,745   -400,7   | 104,600   273,667   160,886   191,773   -523,306   -119580   104,600   279,671   167,321   223,33   -518,622   -195,974   104,600   280,693   179,117   223,153   -509,772   -95,974   104,600   290,693   179,117   223,153   -509,772   -49,488   104,600   295,706   184,522   233,613   -509,377   -49,488   104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   205,707   206,707  
   
  | 104,600   273,667   160,886   191,773   -523,306   -119580   104,600   279,671   167,321   223,33   -518,622   -195,974   104,600   280,693   179,117   223,153   -509,772   -95,974   104,600   290,693   179,117   223,153   -509,772   -49,488   104,600   295,706   184,522   233,613   -509,377   -49,488   104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   205,707   206,707  
   
                                     | 104,600   273,667   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -19,5974   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -500,376   -3,886   104,600   305,312   194,646   254,333   -496,600   18,611   -10,600   200,376   19,839   254,073   -496,200   18,611   -10,600   21,838   208,170   285,913   -487,899   63,044   104,600   322,888   21,5305   26,333   -474,988   128,410   104,600   322,888   223,017   317,293   -470,745   19,885   -400,745   -400,7   | 104,600   273,667   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -19,5974   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -500,376   -3,886   104,600   305,312   194,646   254,333   -496,600   18,611   -10,600   200,376   19,839   254,073   -496,200   18,611   -10,600   21,838   208,170   285,913   -487,899   63,044   104,600   322,888   21,5305   26,333   -474,988   128,410   104,600   322,888   223,017   317,293   -470,745   19,885   -400,745   -400,7   | 104,600   273,667   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -19,5974   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -500,376   -3,886   104,600   305,312   194,646   254,333   -496,600   18,611   -10,600   200,376   19,839   254,073   -496,200   18,611   -10,600   21,838   208,170   285,913   -487,899   63,044   104,600   322,888   21,5305   26,333   -474,988   128,410   104,600   322,888   223,017   317,293   -470,745   19,885   -400,745   -400,7   | 104,600   273,667   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,627   -119,580   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   187,201   244,073   -508,367   -26,582   104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   200,744   193,390   254,033   -48,296   -49,248   104,600   213,833   206,313   -48,296   -49,248   104,600   222,888   215,305   206,313   -44,292   106,783   -44,996   -40,918   
   | 104,600   273,667   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,627   -119,580   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   187,201   244,073   -508,367   -26,582   104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   200,744   193,390   254,033   -48,296   -49,248   104,600   213,833   206,313   -48,296   -49,248   104,600   222,888   215,305   206,313   -44,292   106,783   -44,996   -40,918                                      
   | 104,600   273,667   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,627   -119,580   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   187,201   244,073   -508,367   -26,582   104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   200,744   193,390   254,033   -48,296   -49,248   104,600   213,833   206,313   -48,296   -49,248   104,600   222,888   215,305   206,313   -44,292   106,783   -44,996   -40,918  
-40,918     | 104,600   273,663   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -119,580   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -506,397   -506,587   104,600   305,312   194,646   254,333   -496,500   18,611   -104,600   318,136   208,170   285,913   -483,576   49,994   104,600   318,136   208,170   285,913   -483,576   44,996   104,600   323,888   213,316   208,33   -474,998   128,410   104,600   323,888   223,0147   317,293   -470,745   199,885   -470,745   190,885   -470,745   | 104,600   273,663   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -119,580   104,600  
280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -506,397   -506,587   104,600   305,312   194,646   254,333   -496,500   18,611   -104,600   318,136   208,170   285,913   -483,576   49,994   104,600   318,136   208,170   285,913   -483,576   44,996   104,600   323,888   213,316   208,33   -474,998   128,410   104,600   323,888   223,0147   317,293   -470,745   199,885   -470,745   190,885   -470,745    | 104,600   273,663   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -119,580   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -506,397   -506,587   104,600   305,312   194,646   254,333   -496,500   18,611   -104,600   318,136   208,170   285,913   -483,576   49,994   104,600   318,136   208,170   285,913   -483,576   44,996   104,600   323,888   213,316   208,33   -474,998   128,410   104,600   323,888   223,0147   317,293   -470,745   199,885   -470,745   190,885   -470,745    | 104,600   273,663   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -119,580   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -506,397   -506,587   104,600   305,312   194,646   254,333   -496,500   18,611   -104,600   318,136   208,170   285,913   -483,576   49,994   104,600   318,136   208,170   285,913   -483,576   44,996   104,600   323,888   213,316   208,33   -474,998   128,410   104,600   323,888   223,0147   317,293   -470,745   199,885   -470,745   190,885   -470,745    | 104,600   273,667   160,886   191,773   -523,306   -119,580   104,600   279,671   167,321   223,33   -518,622   -19,5974   104,600   280,693   179,117   223,153   -59,771   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   290,693   179,117   223,153   -509,777   -49,488   104,600   305,312   194,646   254,333   -500,376   -3,886   104,600   305,312   194,646   254,333   -496,600   18,611   -10,600   200,376   19,839   254,073   -496,200   18,611   -10,600   21,838   208,170   285,913   -487,899   63,044   104,600   322,888   21,5305   26,333   -474,988   128,410   104,600   322,888   223,017   317,293   -470,745   19,885   -400,745   -400,7   | 104,600   273,667   160,886   191,773   -523,306   -119580   104,600   279,671   167,321   223,33   -518,622   -195,974   104,600   280,693   179,117   223,153   -509,772   -95,974   104,600   290,693   179,117   223,153   -509,772   -49,488   104,600   295,706   184,522   233,613   -509,377   -49,488   104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   205,707   206,707  
206,707   206,707   206,707   206,707   206,707   206,707   206,707   206,707   206,707   206,707   206,707   | 104,600   273,667   160,886   191,773   -523,306   -119580   104,600   279,671   167,321   223,33   -518,622   -195,974   104,600   290,693   179,117   223,153   -509,772   -95,974   104,600   290,693   179,117   223,153   -509,772   -49,488   104,600   295,764   184,522   233,613   -509,777   -49,488   104,600   305,317   194,646   254,533   -496,600   18,611   -104,600   305,317   194,646   254,593   -496,200   18,611   -104,600   318,136   208,170   285,913   -487,899   40,918   -104,600   312,888   216,305   216,30   |
| 104,600 285,328 173,384 212,623 -518,522<br>104,600 285,328 173,384 212,633 -514,191<br>104,600 200,663 179,117 223,153 -509,772<br>104,600 300,662 189,720 244,073 -500,976<br>104,600 305,744 199,330 244,533 -496,600<br>104,600 318,136 208,170 285,913 -483,89<br>104,600 318,136 208,170 285,913 -483,576<br>104,600 325,684 212,316 285,913 -483,576<br>104,600 325,888 716,306   | 104.600 250.693 179.117 222.1513 -59.974 -72.514 1014.600 250.693 179.117 223.153 -59.9777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -45.488 104.600 250.693 119.117 223.153 -509.777 -45.488 104.600 250.693 119.4477 -509.778 104.600 250.778 24.4773 -500.976 -3.886 104.600 250.878 275.453 -487.289 63.048 -104.600 272.888 216.305 275.453 -479.278 105.789 104.600 272.888 216.305 275.479 37.774 105.609 -104.600 272.888 216.305 275.479 277.479 105.609 -104.600 272.888 216.305 275.479 277.479 105.609 -104.600 272.888 216.305 275.479 277.479 105.609 -104.600 272.888 216.305 275.479 277.479 105.609 -104.600 272.888 216.305 275.479 277.479 105.609 -104.600 272.888 216.305 275.479 277.479 105.609 -104.600 272.888 216.305 277.4798 105.779 -277.4798 105.77  
   
   
  | 104.600 250.533 173.344 212.693 -514.191 -72.514 104.600 250.593 179.117 223.153 -509.772 -69.574 104.600 250.593 179.117 223.153 -509.772 -69.488 104.600 250.593 179.117 223.153 -509.772 -69.488 104.600 250.593 179.145 223.153 -509.776 -3.886 104.600 205.712 194.646 254.4073 -500.976 -3.886 104.600 205.742 199.350 254.593 -4922.40 40.918 104.600 313.140 205.753 -69.593 -4972.40 40.918 104.600 312.846 206.773 -477.473 106.773 106.600 225.88 216.305 206.773 -477.973 106.773 104.600 225.88 216.305 30.644 -47.998 216.305 30.6   
   
   
  | 104.600 225.838 175.11 202.23 -118.622 -159.71 104.600 290.693 179.117 223.153 -599.772 -49.488 104.600 290.693 179.117 223.153 -599.772 -49.488 104.600 295.762 185.720 244.073 -509.772 -40.488 104.600 305.312 194.646 254.533 -496.600 18.511 -104.600 305.312 194.646 254.533 -496.600 18.511 -104.600 305.312 194.646 254.533 -487.899 63.044 104.600 318.136 208.170 285.513 -487.899 63.044 104.600 325.888 216.305 306.833 -479.775 106.789 -104.600 325.888 216.305 317.293 -479.798 138.819 -104.600 325.589 220.147 317.293 -479.798 198.819 -104.600 325.589 220.147 317.293 -470.745 195.885 -106.600 325.599 20.147 317.293 -470.745 195.885 -106.600 325.599 320.833 -470.745 195.885 -106.600 325.599 320.833 -470.745 195.885 -106.600 325.599 320.833 -470.745 195.885 -106.600 325.599 320.833 -470.745 195.885 -106.600 325.599 320.833 -470.745 195.885 -106.500 325.599 320.833 -470.745 195.875 -106.500 325.599 320.833 -470.745 195.875 -106.500 325.599 320.833 -470.745 195.875 -470.745 195.875 -470.745 195.875 -470.745 195.875 -470.745 195.875 -470.745 195.875 -470.745 195.745 195.875 -470.745 195.875 -470.745 195.875 -470.745 195.875 -470.745 195.875 -470.745 195.7   
   
   
   
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  | 104.600 225.838 175.11 202.23 -118.622 -159.71 104.600 290.693 179.117 223.153 -599.772 -49.488 104.600 290.693 179.117 223.153 -599.772 -49.488 104.600 295.762 185.720 244.073 -509.772 -40.488 104.600 305.312 194.646 254.533 -496.600 18.511 -104.600 305.312 194.646 254.533 -496.600 18.511 -104.600 305.312 194.646 254.533 -487.899 63.044 104.600 318.136 208.170 285.513 -487.899 63.044 104.600 325.888 216.305 306.833 -479.775 106.789 -104.600 325.888 216.305 317.293 -479.798 138.819 -104.600 325.589 220.147 317.293 -479.798 198.819 -104.600 325.589 220.147 317.293 -470.745 195.885
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   | 104.600 293.38 179.117 223.153 -5914.191 -75.574 104.600 290.693 179.117 223.153 -591772 -49.488 104.600 290.693 179.117 223.153 -599777 -49.488 104.600 295.764 185.720 244.073 -509.777 -49.488 104.600 305.312 194.646 254.533 -496.600 18.511 -104.600 305.312 194.646 254.533 -496.600 18.511 -104.600 305.312 194.646 254.533 -496.890 64.918 -104.600 318.136 208.170 285.5913 -487.899 63.044 104.600 325.888 216.305 306.833 -479.275 106.789 -104.600 325.888 216.305 306.833 -479.775 196.789 -104.600 325.888 216.305 306.833 -479.775 196.789 -104.600 325.888 216.305 306.833 -479.775 196.789 -104.600 329.559 220.147 317.293 -470.745 195.885  
   
   
   
  | 104.600 293.38 179.117 223.153 -5914.191 -75.574 104.600 290.693 179.117 223.153 -599.772 -49.488 104.600 290.693 179.117 223.153 -599.777 -49.488 104.600 295.796 184.522 233.613 -500.376 -3.886 104.600 305.312 194.646 254.593 -496.600 18.611 -104.600 305.312 194.646 254.593 -496.200 18.611 -104.600 305.312 194.646 254.593 -496.200 18.611 -104.600 318.136 208.170 285.5913 -487.899 61.04.600 325.888 216.305 306.833 -479.988 128.410 104.600 325.888 216.305 306.833 -479.988 128.410 104.600 325.888 216.305 370.347 149.888 -479.988 -479.8888 -479.888 -479.888 -479.888 -479.888 -479.888 -479.888 -479.8888   
   
  | 104.600 293.38 179.117 223.153 -5914.191 -75.514<br>104.600 290.693 179.117 223.153 -599.777 -49.488<br>104.600 295.692 179.117 223.153 -599.777 -49.488<br>104.600 295.692 189.720 244.073 -509.597 -3.886<br>104.600 305.312 194.646 254.333 -496.600 18.611 -<br>104.600 305.312 194.646 254.333 -496.600 48.011 -<br>104.600 318.136 208.170 285.913 -487.899 63.044<br>104.600 322.588 220.177 317.293 -474.998 128.410<br>104.600 325.888 220.177 317.293 -470.745 149.885 -   | 104.600 253.38 179.117 223.153 -5914.191 -75.574 104.600 295.633 179.117 223.153 -59777 -49.488 104.600 295.633 179.117 223.153 -59777 -49.488 104.600 295.764 187370 244.773 -505.377 -55.582 104.600 305.312 194.645 244.773 -500.576 -3.886 104.600 305.312 194.645 244.773 -496.600 18.611 -104.600 305.312 194.645 244.773 -496.600 18.611 -104.600 318.136 208.170 285.913 -487.899 63.044 104.600 322.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 329.559 220.147 317.299 -470.748 149.888   
   
   | 104.600 253.38 179.117 223.153 -5914.191 -75.574 104.600 295.633 179.117 223.153 -59777 -49.488 104.600 295.633 179.117 223.153 -59777 -49.488 104.600 295.764 187370 244.773 -505.377 -55.582 104.600 305.312 194.645 244.773 -500.576 -3.886 104.600 305.312 194.645 244.773 -496.600 18.611 -104.600 305.312 194.645 244.773 -496.600 18.611 -104.600 318.136 208.170 285.913 -487.899 63.044 104.600 322.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 329.559 220.147 317.299 -470.748 149.888   
   
                                      | 104.600 293.38 179.117 223.153 -5914.191 -75.514<br>104.600 290.693 179.117 223.153 -599.777 -49.488<br>104.600 295.692 179.117 223.153 -599.777 -49.488<br>104.600 295.692 189.720 244.073 -509.597 -3.886<br>104.600 305.312 194.646 254.333 -496.600 18.611 -<br>104.600 305.312 194.646 254.333 -496.600 48.011 -<br>104.600 318.136 208.170 285.913 -487.899 63.044<br>104.600 322.588 220.177 317.293 -474.998 128.410<br>104.600 325.888 220.177 317.293 -470.745 149.885 -   | 104.600 293.38 179.117 223.153 -5914.191 -75.514<br>104.600 290.693 179.117 223.153 -599.777 -49.488<br>104.600 295.692 179.117 223.153 -599.777 -49.488<br>104.600 295.692 189.720 244.073 -509.597 -3.886<br>104.600 305.312 194.646 254.333 -496.600 18.611 -<br>104.600 305.312 194.646 254.333 -496.600 48.011 -<br>104.600 318.136 208.170 285.913 -487.899 63.044<br>104.600 322.588 220.177 317.293 -474.998 128.410<br>104.600 325.888 220.177 317.293 -470.745 149.885 -   | 104.600 293.38 179.117 223.153 -5914.191 -75.514<br>104.600 290.693 179.117 223.153 -599.777 -49.488<br>104.600 295.692 179.117 223.153 -599.777 -49.488<br>104.600 295.692 189.720 244.073 -509.597 -3.886<br>104.600 305.312 194.646 254.333 -496.600 18.611 -<br>104.600 305.312 194.646 254.333 -496.600 48.011 -<br>104.600 318.136 208.170 285.913 -487.899 63.044<br>104.600 322.588 220.177 317.293 -474.998 128.410<br>104.600 325.888 220.177 317.293 -470.745 149.885 -   | 104.600 293.38 179.117 223.153 -5914.191 -72.5914 104.600 290.693 179.117 223.153 -599.777 -49.488 104.600 290.693 179.117 223.153 -599.777 -49.488 104.600 295.796 184.522 233.6613 -509.377 -49.488 104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 318.136 208.170 285.913 -483.776 84.996 -104.600 322.848 212.316 208.170 285.913 -483.776 84.996 -104.600 322.888 212.316 208.33 -474.998 128.410 104.600 322.888 223.01.47 317.293 -470.745 149.885 -104.600 323.888 223.01.47 317.293 -470.745 149.885 -104.600 323.31.89  
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  | 104.600 293.38 179.117 223.153 -5914.191 -72.5914 104.600 290.693 179.117 223.153 -599.777 -49.488 104.600 290.693 179.117 223.153 -599.777 -49.488 104.600 295.796 184.522 233.6613 -509.377 -49.488 104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 318.136 208.170 285.913 -483.776 84.996 -104.600 322.848 212.316 208.170 285.913 -483.776 84.996 -104.600 322.888 212.316 208.33 -474.998 128.410 104.600 322.888 223.01.47 317.293 -470.745 149.885 -104.600 323.888 223.01.47 317.293 -470.745 149.885 -104.600 323.31.89   
   | 104.600 250.693 179.117 223.153 -59.144.191 -72.5914 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 259.794 194.545 244.793 -500.596 -3.886 104.600 305.312 194.646 254.333 -596.600 18.611 -104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 318.136 208.170 285.913 -481.576 84.996 -104.600 312.888 21.3316 208.170 285.913 -481.576 84.996 -104.600 322.888 21.3316 208.33 -474.998 128.410 104.600 322.888 21.3316 208.33 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 323.3488 21.331.89  | 104.600 250.693 179.117 223.153 -59.144.191 -72.5914 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153
-509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 259.794 194.545 244.793 -500.596 -3.886 104.600 305.312 194.646 254.333 -596.600 18.611 -104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 318.136 208.170 285.913 -481.576 84.996 -104.600 312.888 21.3316 208.170 285.913 -481.576 84.996 -104.600 322.888 21.3316 208.33 -474.998 128.410 104.600 322.888 21.3316 208.33 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 323.3488 21.331.89   | 104.600 250.693 179.117 223.153 -59.144.191 -72.5914 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 259.794 194.545 244.793 -500.596 -3.886 104.600 305.312 194.646 254.333 -596.600 18.611 -104.600 305.312 194.646 254.333 -496.600 18.611 -104.600 318.136 208.170 285.913 -481.576 84.996 -104.600 312.888 21.3316 208.170 285.913 -481.576 84.996 -104.600 322.888 21.3316 208.33 -474.998 128.410 104.600 322.888 21.3316 208.33 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 322.888 21.3316 306.833 -474.998 128.410 104.600 323.3488 21.331.89   | 104.600 250.693 179.117 223.153 -59.144.191 -72.5914 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 250.693 179.117 223.153 -509.777 -49.488 104.600 305.312 194.646 254.333 -496.600 18.611 -49.600 259.74 195.393 244.773 -496.600 18.611 -49.600 259.74 140.74 259.73 -496.724 40.918 -496.600 318.136 208.170 285.913 -487.899 63.044 104.600 322.888 212.316 208.773 -497.273 106.783 -496.600 322.888 212.316 208.373 -474.998 128.419 104.600 322.888 212.316 306.833 -474.998 128.419 104.600 322.888 22.301.47 317.293 -470.745 129.885 -496.600 322.888 22.301.47 317.293 -470.745 129.885 -496.600 323.31.888 22.301.47 317.293 -470.745 129.885 -496.600 323.31.888 22.301.47 317.293 -470.745 129.885 -496.600 323.31.888 22.301.47 317.293 -470.745 129.885 -496.600 323.31.888 22.301.47 317.293 -470.745 129.885 -496.600 323.31.888 22.301.47 317.293 -470.745 129.885 -496.600 323.31.888 32.301.47 317.293 -470.745 129.885 -470.745 12 | 104.600 293.38 179.117 223.153 -5914.191 -75.514<br>104.600 290.693 179.117 223.153 -599.777 -49.488<br>104.600 295.692 179.117 223.153 -599.777 -49.488<br>104.600 295.692 189.720 244.073 -509.597 -3.886<br>104.600 305.312 194.646 254.333 -496.600 18.611 -<br>104.600 305.312 194.646 254.333 -496.600 48.011 -<br>104.600 318.136 208.170 285.913 -487.899 63.044<br>104.600 322.588 220.177 317.293 -474.998 128.410<br>104.600 325.888 220.177 317.293 -470.745 149.885 -   | 104.600 253.38 179.117 223.153 -5914.191 -75.574 104.600 295.633 179.117 223.153 -59777 -49.488 104.600 295.633 179.117 223.153 -59777 -49.488 104.600 295.764 187370 244.773 -505.377 -55.582 104.600 305.312 194.645 244.773 -500.576 -3.886 104.600 305.312 194.645 244.773 -496.600 18.611 -104.600 305.312 194.645 244.773 -496.600 18.611 -104.600 318.136 208.170 285.913 -487.899 63.044 104.600 322.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 325.888 216.308 306.833 -474.998 128.410 104.600 329.559 220.147 317.299 -470.748 149.888  
  | 104.600 293.38 179.117 223.153 -5914.191 -75.574 104.600 290.693 179.117 223.153 -599.772 -49.488 104.600 290.693 179.117 223.153 -599.777 -49.488 104.600 295.796 184.522 233.613 -500.376 -3.886 104.600 305.312 194.646 254.593 -496.600 18.611 -104.600 305.312 194.646 254.593 -496.200 18.611 -104.600 305.312 194.646 254.593 -496.200 18.611 -104.600 318.136 208.170 285.5913 -487.899 61.04.600 325.888 216.305 306.833 -479.988 128.410 104.600 325.888 216.305 306.833 -479.988 128.410 104.600 325.888 216.305 370.347 149.888 -479.988 -479.8888 -479.888 -479.888 -479.888 -479.888 -479.888 -479.888 -479.8888 |
| 104,600         250,653         179,117         223.153         -509,772           104,600         295,776         184,522         233,613         -505,677           104,600         300,662         184,546         234,533         -496,600           104,600         305,312         194,646         254,533         -496,600           104,600         314,034         203,833         275,433         -492,40           104,600         318,136         208,170         285,913         -483,576           104,600         325,838         216,131         285,913         -483,576           104,600         325,888         716,305         346,833         -479,275   | 104,600   290,693   179,117   223,153   -599,772   -49,488   104,600   295,776   184,522   233,613   -599,377   -49,488   104,600   295,776   184,522   234,073   -506,5367   -3,866   104,600   305,712   194,646   224,073   -506,600   18,611   -104,600   314,034   203,833   275,433   -492,240   40,918   104,600   318,16   208,170   285,933   -479,278   63,044   -104,600   322,084   211,2316   296,373   -479,278   106,738   104,600   322,084   211,2316   296,373   -479,278   106,738   204,600   275,888   216,235   306,733   -479,278   218,410   -479,78   218,4  
   
   
  | 104,600         290,693         179,117         223,133         -509,772         -49,488           104,600         295,796         184,532         233,613         -509,772         -65,832           104,600         305,312         194,646         244,573         -500,976         -1386           104,600         305,312         194,646         254,533         -495,240         18,611         -104,600           104,600         305,312         194,646         275,433         -487,240         40,918         -104,600           104,600         318,135         208,170         275,433         -487,599         63,044         -104,600           104,600         322,084         212,316         296,373         -479,275         106,783         -104,600           104,600         325,589         212,316         296,373         -474,998         106,783         -104,600           104,600         325,589         220,147         317,293         -474,998         132,410         -104,600  
   
   
  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -500,377         -65,532           104,600         305,312         194,646         254,533         -490,507         -3,386           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,312         194,646         254,533         -492,240         40,918         -           104,600         318,136         208,170         285,513         -487,899         63,044         -           104,600         318,136         208,170         285,513         -483,576         84,996         -           104,600         325,288         216,305         306,333         -447,998         106,733         -           104,600         329,539         220,147         317,293         -47,498         138,410         -   
   
   
   
  | 104,600         290,693         179,117         223,153         -599,772         -49,488           104,600         295,796         184,532         233,613         -500,376         -56,582           104,600         305,312         194,646         254,533         -490,076         -3,886           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,314         193,530         264,993         -492,240         40,918         -           104,600         318,136         208,170         285,591         -487,899         63,044         -           104,600         322,588         216,305         306,833         -479,275         106,789         -           104,600         329,559         220,147         317,293         -479,975         106,783         -  
   
   
   
  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -500,376         -56,582           104,600         305,312         194,646         254,533         -490,076         -3,386           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,312         194,646         254,533         -492,240         40,918         -           104,600         318,136         208,170         285,591         -487,899         63,044         -           104,600         322,588         216,305         306,331         -479,275         106,789         -           104,600         329,559         220,147         317,293         -479,975         106,783         -  
   
   
  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -500,377         -65,532           104,600         305,312         194,646         254,533         -490,507         -3,386           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,312         194,646         254,533         -492,240         40,918         -           104,600         318,136         208,170         285,513         -487,899        
63,044         -           104,600         318,136         208,170         285,513         -483,576         84,996         -           104,600         325,288         216,305         306,333         -447,998         106,733         -           104,600         329,539         220,147         317,293         -47,498         138,410         -  
   
   
  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -509,377         -65,832           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,312         194,646         254,533         -492,240         18,611         -           104,600         305,312         194,646         254,533         -492,240         40,918         -           104,600         305,312         194,646         275,433         -487,899         64,0918         -           104,600         318,136         208,170         285,913         -487,879         63,044         -           104,600         325,888         216,236         306,833         -447,998         106,739         -           104,600         325,888         216,236         377,339         -474,998         173,410         -   
   
   | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -500,376         -56,582           104,600         305,312         194,646         254,533         -490,076         -3,386           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,312         194,646         254,533         -492,240         40,918         -           104,600         318,136         208,170         285,591         -487,899         63,044         -           104,600         322,588         216,305         306,331         -479,275         106,789         -           104,600         329,559         220,147         317,293         -479,975         106,783         -   
   
   
   
  | 104,600         290,693         179,117         223,133         -509,772         -49,488           104,600         295,796         184,532         233,613         -508,357         -66,582           104,600         305,312         187,730         244,773         -500,976         -3.86           104,600         305,312         194,646         254,533         -496,600         18.811         -           104,600         305,312         193,592         264,593         -492,240         40.918         -           104,600         318,136         208,170         285,913         -487,899         63,044         10.466           104,600         322,588         216,336         306,833         -479,273         106,733         -           104,600         322,588         216,305         306,833         -479,998         128,410         -           104,600         322,588         220,147         317,229         -470,735         198,88         -  
   
  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -508,357         -56,582           104,600         305,312         194,646         254,333         -500,976         -3.86           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,200         40.918         -           104,600         318,136         208,170         285,913         -487,899         63.048         -           104,600         322,588         216,316         296,373         -479,275         184,996         -           104,600         322,588         216,317         317,293         -470,345         149,885         -           104,600         322,588         220,147         317,229         -470,745         149,885         -  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -509,377         -66,582           104,600         305,312         194,646         254,533         -500,976         -3.86           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,312         194,646         254,533         -496,200         40,918         -           104,600         318,136         208,170         285,913         -487,899         63,048         -           104,600         322,588         216,316         208,170         285,313         -479,215         106,783         -           104,600         322,588         216,316         376,313         -474,998         128,419         -           104,600         325,588         220,147         317,293         -470,745         147,885         -   
   
   | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -509,377         -66,582           104,600         305,312         194,646         254,533         -500,976         -3.86           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,312         194,646         254,533         -496,200         40,918         -           104,600         318,136         208,170         285,913         -487,899         63,048         -           104,600         322,588         216,316         208,170         285,313         -479,215         106,783         -           104,600         322,588         216,316         376,313         -474,998         128,419         -           104,600         325,588         220,147         317,293         -470,745         147,885         -   
   
                                | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -508,357         -56,582           104,600         305,312         194,646         254,333         -500,976         -3.86           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,200         40.918         -           104,600         318,136         208,170         285,913         -487,899         63.048         -           104,600         322,588         216,316         296,373         -479,275         184,996         -           104,600         322,588         216,317         317,293         -470,345         149,885         -           104,600         322,588         220,147         317,229         -470,745         149,885         -  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -508,357         -56,582           104,600         305,312         194,646         254,333         -500,976         -3.86           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,200         40.918         -           104,600         318,136         208,170         285,913         -487,899         63.048         -           104,600         322,588         216,316         296,373         -479,275         184,996         -           104,600         322,588         216,317         317,293         -470,345         149,885         -           104,600         322,588         220,147         317,229         -470,745         149,885         -  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -508,357         -56,582           104,600         305,312         194,646         254,333         -500,976         -3.86           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,200         40.918         -           104,600         318,136         208,170         285,913         -487,899         63.048         -           104,600         322,588         216,316         296,373         -479,275         184,996         -           104,600         322,588         216,317         317,293         -470,345         149,885         -           104,600         322,588         220,147         317,229         -470,745         149,885         -  | 104,600   290,693   179,117   223,153   -599,772   -49,488   104,600   295,796   184,522   233,613   -509,377   -49,488   104,600   295,796   184,522   234,513   -500,376   -3,886   104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   314,034   208,170   285,913   -487,899   64,996   -104,600   322,588   216,305   306,833   -474,998   194,885   -104,600   325,888   220,147   317,293   -470,745   199,885   -104,600   325,888   220,147   317,293   -470,745   149,885   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,600   329,348   326,347   -470,745   199,885   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,948   324,948  
  | 104,600   290,693   179,117   223,153   -599,772   -49,488   104,600   295,796   184,522   233,613   -509,377   -49,488   104,600   295,796   184,522   234,513   -500,376   -3,886   104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   305,312   194,646   254,333   -496,600   18,611   -104,600   314,034   208,170   285,913   -487,899   64,996   -104,600   322,588   216,305   306,833   -474,998   194,885   -104,600   325,888   220,147   317,293   -470,745   199,885   -104,600   325,888   220,147   317,293   -470,745   149,885   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,600   329,348   326,347   -470,745   199,885   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,600   329,348   324,946   -104,948   324,948   
  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -509,377         -66,582           104,600         295,776         188,720         -38,61         -38,66         -38,600           104,600         305,312         194,646         254,533         -496,600         18,611         -38,60           104,600         305,714         193,390         264,933         -492,240         40,918         -9,018           104,600         318,136         208,170         285,913         -487,899         63,044         10,460           104,600         322,588         415,316         296,373         -479,275         186,136         -13,416           104,600         322,588         216,316         371,239         -474,998         138,419         -13,418           104,600         322,588         220,147         317,293         -470,438         149,885            104,600         322,588         220,147         317,293         -470,438         189,885  
   | 104,600   290,693   179,117   223,153   -599,772   -49,488   104,600   295,796   184,522   233,613   -509,377   -49,488   104,600   295,796   184,522   234,513   -500,376   -3.8.6   104,600   305,312   194,646   254,333   -496,600   18.611   -104,600   305,312   194,646   234,333   -496,600   18.611   -104,600   314,034   208,170   285,913   -481,576   44,996   -104,600   322,888   41,326   41,928   44,996   -104,600   323,888   41,326   306,833   -414,998   128,410   -104,600   323,888   230,147   317,293   -407,458   -407,858   -407,458   -  | 104,600   290,693   179,117   223,153   -599,772   -49,488   104,600   295,796   184,522   233,613   -509,377   -49,488   104,600   295,796  
184,522   234,513   -500,376   -3.8.6   104,600   305,312   194,646   254,333   -496,600   18.611   -104,600   305,312   194,646   234,333   -496,600   18.611   -104,600   314,034   208,170   285,913   -481,576   44,996   -104,600   322,888   41,326   41,928   44,996   -104,600   323,888   41,326   306,833   -414,998   128,410   -104,600   323,888   230,147   317,293   -407,458   -407,858   -407,458   -   | 104,600   290,693   179,117   223,153   -599,772   -49,488   104,600   295,796   184,522   233,613   -509,377   -49,488   104,600   295,796   184,522   234,513   -500,376   -3.8.6   104,600   305,312   194,646   254,333   -496,600   18.611   -104,600   305,312   194,646   234,333   -496,600   18.611   -104,600   314,034   208,170   285,913   -481,576   44,996   -104,600   322,888   41,326   41,928   44,996   -104,600   323,888   41,326   306,833   -414,998   128,410   -104,600   323,888   230,147   317,293   -407,458   -407,858   -407,458   -   | 104,600   290,693   179,117   223,153   -599,772   -49,488   104,600   295,796   184,522   233,613   -509,377   -49,488   104,600   295,796   184,522   234,513   -500,376   -3.8.6   104,600   305,312   194,646   254,333   -496,600   18.611   -104,600   305,312   194,646   234,333   -496,600   18.611   -104,600   314,034   208,170   285,913   -481,576   44,996   -104,600   322,888   41,326   41,928   44,996   -104,600   323,888   41,326   306,833   -414,998   128,410   -104,600   323,888   230,147   317,293   -407,458   -407,858   -407,458   -   | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -508,357         -56,582           104,600         305,312         194,646         254,333         -500,976         -3.86           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,600         18.611         -           104,600         305,312         194,646         254,333         -496,200         40.918         -           104,600         318,136         208,170         285,913         -487,899         63.048         -           104,600         322,588         216,316         296,373         -479,275         184,996         -           104,600         322,588         216,317         317,293         -470,345         149,885         -           104,600         322,588         220,147         317,229         -470,745         149,885         -  | 104,600         290,693         179,117         223,133         -599,772         -49,488           104,600         295,796         184,532         233,613         -509,377         -66,582           104,600         305,312         194,646         254,533         -500,976         -3.86           104,600         305,312         194,646         254,533         -496,600         18,611         -           104,600         305,312         194,646         254,533         -496,200         40,918         -           104,600         318,136         208,170         285,913         -487,899         63,048         -           104,600         322,588         216,316         208,170         285,313         -479,215         106,783         -           104,600         322,588         216,316         376,313         -474,998         128,419         -           104,600         325,588         220,147         317,293         -470,745         147,885         -  
  | 104,600         290,693         179,117         223,133         -509,772         -49,488           104,600         295,796         184,532         233,613         -508,357         -66,582           104,600         305,312         187,730         244,773         -500,976         -3.86           104,600         305,312         194,646         254,533         -496,600         18.811         -           104,600         305,312         193,592         264,593         -492,240         40.918         -           104,600         318,136         208,170         285,913         -487,899         63,044         10.466           104,600         322,588         216,336         306,833         -479,273         106,733         -           104,600         322,588         216,305         306,833         -479,998         128,410         -           104,600         322,588         220,147         317,229         -470,735         198,88         -  |
| 104.600   295.776   184.532   233.643   -505.367   104.600   295.776   189.720   244.073   -500.976   104.600   305.314   194.646   254.533   -486.600   104.600   314.034   203.835   254.933   -487.899   104.600   318.136   208.170   285.913   -487.899   104.600   318.136   208.170   285.913   -483.776   104.600   312.044   213.316   208.773   208.773   208.073   208.773   208.073   208.773   208.073   208.773   208.073   208.773   208.073   208.773   208.073    | 104,600   295,796   184,532   233,613   -5,90,367   -2,6,582   104,600   305,312   194,646   244,533   -5,90,376   -3,886   104,600   305,312   194,646   224,533   -492,240   40,918   104,600   314,034   203,833   275,433   -497,240   40,918   104,600   312,084   212,316   296,373   -433,576   84,996   104,600   312,084   212,316   296,373   -479,273   106,733   104,600   325,888   216,340   317,340   244,998   213,410   246,600   225,888   216,340   244,998   244,499  
   
   
  | 104,600         295,796         184,532         233,613         -505,367         -7.65,82           104,600         305,312         194,646         244,533         -50,976         -3.886           104,600         305,316         194,646         224,533         -492,240         40,918           104,600         397,764         193,350         264,593         -492,240         40,918           104,600         318,136         203,853         275,435         -487,899         63,044           104,600         322,084         212,316         285,913         -493,576         49,966           104,600         322,084         212,316         296,373         -479,275         106,783           104,600         325,888         216,336         37,239         -474,598         128,410           104,600         325,859         20,147         317,223         -474,598         128,410  
   
   
  | 104.600   295.786   184.532   233.613   -265.822   -265.822   -265.822   -265.822   -265.822   -265.822   -266.822   -2   
   
   
   
  | 104,600         295,796         184,532         233,613         -5,003,67         -7.6,582           104,600         305,312         189,730         244,073         -500,976         -3,886           104,600         305,312         194,646         224,533         -492,240         40,918           104,600         390,746         193,30         254,533         -487,899         63,044           104,600         318,136         208,170         285,913         -487,899         63,044           104,600         322,588         212,316         296,373         -479,275         106,783           104,600         322,588         216,303         306,833         -479,278         128,410           104,600         322,539         220,147         317,293         -479,275         196,885   
   
   
   
  | 104,600         295,796         184,532         233,613         -5,003,67         -7.6,582           104,600         305,312         189,730         244,073         -500,976         -3,886           104,600         305,312         194,646         224,533         -492,240         40,918           104,600         390,746         193,30         254,533         -487,899         63,044           104,600         318,136         208,170         285,913         -487,899         63,044           104,600         322,588         212,316         296,373         -479,275         106,783           104,600         322,588         216,303         306,833         -479,278         128,410           104,600         322,539         220,147         317,293         -479,275         196,885   
   
   
  | 104.600   295.786   184.532   233.613   -265.822   -265.822   -265.822   -265.822   -265.822   -265.822   -266.822  
-266.822   -2   
   
   
   | 104.600   295.786   184.532   233.613   -205.537   -26.532   104.600   205.786   184.532   224.073   -500.976   -3.885   104.600   305.312   194.646   224.533   -486.600   18.611   104.600   305.312   326.453   -487.240   40.918   104.600   318.136   208.170   285.913   -487.899   63.044   104.600   322.684   212.316   286.373   -479.275   106.783   104.600   325.888   216.316   306.833   -479.275   106.783   104.600   325.882   201.47   317.293   -479.275   106.783   104.600   325.892   200.147   317.293   -470.745   149.885   104.600   325.892   317.293   -470.745   149.885   317.293   -470.745   317.294   317.293   -470.745   317.293   -470.745   317.294   317  
   
  | 104,600         295,796         184,532         233,613         -5,003,67         -7.6,582           104,600         305,312         189,730         244,073         -500,976         -3,886           104,600         305,312         194,646         224,533         -492,240         40,918           104,600         390,746         193,30         254,533         -487,899         63,044           104,600         318,136         208,170         285,913         -487,899         63,044           104,600         322,588         212,316         296,373         -479,275         106,783           104,600         322,588         216,303         306,833         -479,278         128,410           104,600         322,539         220,147         317,293         -479,275         196,885   
   
   
   
   | 104,600         295,796         184,532         233,613         -5,003,67         -7.6,582           104,600         305,312         189,720         244,073         -500,976         -3.886           104,600         305,312         194,646         254,533         -492,240         40,918           104,600         395,744         194,330         254,6493         -492,240         40,918           104,600         318,136         208,170         285,913         -487,899         63,044           104,600         312,688         212,316         285,373         -479,275         106,733           104,600         325,888         216,306         306,833         -474,998         128,410           104,600         325,888         220,147         317,293         -470,998         128,410  
   
   | 104,600   295,796   184,532   233,613   -5,053,67   -2,6,582   104,600   205,622   187,720   244,073   -5,003,67   -3,685   104,600   305,312   194,646   254,533   -496,600   186,111   104,600   305,316   103,350   264,593   -492,240   40,918   104,600   318,136   208,170   285,913   -487,275   487,879   49,044   104,600   322,888   216,305   306,833   -479,275   105,735   104,600   232,588   216,305   206,833   -470,275   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   230,647   237,239   -470,775   149,885   230,647   237,239   230,647   237,239   230,647   237,230   230,647   237,237   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,   | 104,600   295,796   184,532   233,613   -5,053,57   -2,6,582   104,600   205,622   187,720   244,073   -5,00,976   -3,886   104,600   305,312   194,646   254,533   -496,600   18,611   104,600   314,034   203,832   246,933   -492,240   40,918   104,600   318,136   285,713   -497,275   285,949   104,600   325,888   216,305   306,833   -479,275   106,733   104,600   325,888   216,305   306,833   -470,275   128,410   104,600   329,589   220,147   317,293   -470,745   14,8885   104,600   329,589   220,147   317,293   -470,745   14,8885   104,600   329,589   320,44   323,410   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   3   
   
  | 104,600   295,796   184,532   233,613   -5,053,57   -2,6,582   104,600   205,622   187,720   244,073   -5,00,976   -3,886   104,600   305,312   194,646   254,533   -496,600   18,611   104,600   314,034   203,832   246,933   -492,240   40,918   104,600   318,136   285,713   -497,275   285,949   104,600   325,888   216,305   306,833   -479,275   106,733   104,600   325,888   216,305   306,833   -470,275   128,410   104,600   329,589   220,147   317,293   -470,745   14,8885   104,600   329,589   220,147   317,293   -470,745   14,8885   104,600   329,589   320,44   323,410   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   3   
   
                                   | 104,600   295,796   184,532   233,613   -5,053,67   -2,6,582   104,600   205,622   187,720   244,073   -5,003,67   -3,685   104,600   305,312   194,646   254,533   -496,600   186,111   104,600   305,316   103,350   264,593   -492,240   40,918   104,600   318,136   208,170   285,913   -487,275   487,879   49,044   104,600   322,888   216,305   306,833   -479,275   105,735   104,600   232,588   216,305   206,833   -470,275   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   230,647   237,239   -470,775   149,885   230,647   237,239   230,647   237,239   230,647   237,230   230,647   237,237   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,   | 104,600   295,796   184,532   233,613   -5,053,67   -2,6,582   104,600   205,622   187,720   244,073   -5,003,67   -3,685   104,600   305,312   194,646   254,533   -496,600   186,111   104,600   305,316   103,350   264,593   -492,240   40,918   104,600   318,136   208,170   285,913   -487,275   487,879   49,044   104,600   322,888   216,305   306,833   -479,275   105,735   104,600   232,588   216,305   206,833   -470,275   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   230,647   237,239   -470,775   149,885   230,647   237,239   230,647   237,239   230,647   237,230   230,647   237,237   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,   | 104,600   295,796   184,532   233,613   -5,053,67   -2,6,582   104,600   205,622   187,720   244,073   -5,003,67   -3,685   104,600   305,312   194,646   254,533   -496,600   186,111   104,600   305,316   103,350   264,593   -492,240   40,918   104,600   318,136   208,170   285,913   -487,275   487,879   49,044   104,600   322,888   216,305   306,833   -479,275   105,735   104,600   232,588   216,305   206,833   -470,275   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   230,647   237,239   -470,775   149,885   230,647   237,239   230,647   237,239   230,647   237,230   230,647   237,237   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,   | 104,600   295,796   184,532   233,613   -5,053,67   -2,6,582   104,600   205,622   187,720   244,073   -5,003,67   -2,6,582   104,600   305,312   194,646   254,533   -496,600   186,111   104,600   305,745   194,545   244,533   -492,240   40,918   104,600   318,136   208,170   285,913   -487,275   44,996   104,600   325,288   215,305   306,833   -479,275   105,735   104,600   325,288   216,305   306,833   -470,275   149,385   104,600   325,288   216,305   306,833   -470,275   149,385   104,600   329,340   329,340   320,440   320,   
   | 104,600   295,796   184,532   233,613   -5,053,67   -2,6,582   104,600   205,622   187,720   244,073   -5,003,67   -2,6,582   104,600   305,312   194,646   254,533   -496,600   186,111   104,600   305,745   194,545   244,533   -492,240   40,918   104,600   318,136   208,170   285,913   -487,275   44,996   104,600   325,288   215,305   306,833   -479,275   105,735   104,600   325,288   216,305   306,833   -470,275   149,385   104,600   325,288   216,305   306,833   -470,275   149,385   104,600   329,340   329,340   320,440   320,  
   | 104,600   295,796   184,532   233,613   -5,053,67   -2,6,582   104,600   205,622   187,720   244,073   -5,003,67   -2,6,582   104,600   305,312   194,646   254,533   -496,600   186,111   104,600   305,745   194,545   244,533   -492,240   40,918   104,600   318,136   208,170   285,913   -487,275   44,996   104,600   325,288   215,305   306,833   -479,275   105,735   104,600   325,288   216,305   306,833   -470,275   149,385   104,600   325,288   216,305   306,833   -470,275   149,385   104,600   329,340   329,340   320,440  
320,440   320,   | 104,600   295,796   184,532   233,613   -26,532   -26,532   | 104,600   295,796   184,532   233,613   -26,532   -26,532   
  | 104,600   295,796   184,532   233,613   -26,532   -26,532  | 104,600   295,796   184,532   233,613   -26,532   -26,532  | 104,600   295,796   184,532   233,613   -5,053,67   -2,6,582   104,600   205,622   187,720   244,073   -5,003,67   -3,685   104,600   305,312   194,646   254,533   -496,600   186,111   104,600   305,316   103,350   264,593   -492,240   40,918   104,600   318,136   208,170   285,913   -487,275   487,879   49,044   104,600   322,888   216,305   306,833   -479,275   105,735   104,600   232,588   216,305   206,833   -470,275   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   220,147   217,223   -470,775   149,885   104,600   232,588   230,647   237,239   -470,775   149,885   230,647   237,239   230,647   237,239   230,647   237,230   230,647   237,237   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,647   237,230   230,   | 104,600   295,796   184,532   233,613   -5,053,57   -2,6,582   104,600   205,622   187,720   244,073   -5,00,976   -3,886   104,600   305,312   194,646   254,533   -496,600   18,611   104,600   314,034   203,832   246,933   -492,240   40,918   104,600   318,136   285,713   -497,275   285,949   104,600   325,888   216,305   306,833   -479,275   106,733   104,600   325,888   216,305   306,833   -470,275   128,410   104,600   329,589   220,147   317,293   -470,745   14,8885   104,600   329,589   220,147   317,293   -470,745   14,8885   104,600   329,589   320,44   323,410   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589   320,44   323,589  
323,589   323,589   323,589   323,589   323,589   323,589   323,589   323,589   323,589   323,589   3  | 104,600         295,796         184,532         233,613         -5,003,67         -7.6,582           104,600         305,312         189,720         244,073         -500,976         -3.886           104,600         305,312         194,646         254,533         -492,240         40,918           104,600         395,744         194,330         254,6493         -492,240         40,918           104,600         318,136         208,170         285,913         -487,899         63,044           104,600         312,688         212,316         285,373         -479,275         106,733           104,600         325,888         216,306         306,833         -474,998         128,410           104,600         325,888         220,147         317,293         -470,998         128,410   |
| 104.600   305.312   194.646   254.513   -496.600   104.600   305.312   194.646   254.933   -496.600   104.600   314.034   203.833   275.433   -487.899   104.600   318.136   208.170   285.913   -483.576   104.600   325.204   211.316   208.573   208.373   249.600   325.878   216.340   208.373   274.600   208.600   208.373   274.600   208.600      | 104,600   305,312   194,646   254,533   -496,600   18,611   104,600   393,764   199,350   264,993   -492,240   40,918   104,600   318,136   208,170   285,913   -487,899   63,044   104,600   312,084   212,316   296,373   -479,275   106,783   104,600   325,088   216,305   306,383   -474,498   218,410   104,600   325,888   216,305   317,303   2474,998   218,410   206,600   212,800   2  
   
   
  | 104.600   305.312   194.646   254.533   -496.600   18.611   104.600   309.764   199.350   254.593   -492.240   40.918   104.600   318.136   208.170   285.913   -487.899   63.044   104.600   312.084   212.316   208.373   -479.275   106.783   104.600   339.539   220.147   317.293   -479.275   106.783   104.600   339.539   220.147   317.293   -470.745   149.885   
   
   
  | 104,600   305,312   194,646   254,533   -496,600   18,611   104,600   309,764   199,350   264,959   -492,240   40,918   104,600   318,136   208,170   285,913   -481,576   463,044   104,600   312,818   216,316   206,373   -479,275   106,783   104,600   322,588   216,376   317,293   -479,275   198,885   104,600   329,539   220,147   317,293   -470,745   149,885  
   
   
   
  | 104,600 305,312 194,646 254,533 -496,600 18,611     104,600 390,716   199,350 264,993 -422,240 40,918     104,600 318,136 208,170 285,913 -481,376 84,996     104,600 322,88 21,2316 296,373 -479,275 106,783     104,600 325,88 21,2316 296,833 -479,275 106,783     104,600 329,589 220,147 317,293 -470,745 149,885   
   
   
   
  | 104,600 305,312 194,646 254,533 -496,600 18,611     104,600 390,716   199,350 264,993 -422,240 40,918     104,600 318,136 208,170 285,913 -481,376 84,996     104,600 322,88 21,2316 296,373 -479,275 106,783     104,600 325,88 21,2316 296,833 -479,275 106,783     104,600 329,589 220,147 317,293 -470,745 149,885   
   
   
  | 104,600   305,312   194,646   254,533   -496,600   18,611   104,600   309,764   199,350   264,959   -492,240   40,918   104,600   318,136   208,170   285,913   -481,576   463,044   104,600   312,818   216,316   206,373   -479,275   106,783   104,600   322,588   216,376   317,293   -479,275   198,885   104,600   329,539   220,147   317,293   -470,745   149,885  
   
   
   
   | 104.600 305.312 194.646 25.4533 -496.600 18.611     104.600 309.764 199.350 26.4593 -422.240 40.918     104.600 318.136 208.170 285.913 -487.899 63.044     104.600 322.084 212.316 208.373 -479.275 105.783     104.600 325.888 216.336 306.833 -479.275 105.783     104.600 325.888 216.376 317.293 -470.745 19.885   
   
  | 104,600 305,312 194,646 254,533 -496,600 18,611     104,600 390,716   199,350 264,993 -422,240 40,918     104,600 318,136 208,170 285,913 -481,376 84,996     104,600 322,88 21,2316 296,373 -479,275 106,783     104,600 325,88 21,2316 296,833 -479,275 106,783     104,600 329,589 220,147 317,293 -470,745 149,885   
   
   
   
   | 104,600   305,312   194,646   254,533   -496,600   18,611   104,600   309,764   199,350   254,933   -492,240   40,918   104,600   318,136   208,170   285,913   -487,279   63,044   104,600   312,588   216,306   306,833   -479,275   106,783   104,600   325,888   216,306   306,833   -470,275   106,783   104,600   329,589   220,147   317,293   -470,978   128,410  
   
   | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   309.764   199.350   264.993   -492.240   40.918   104.600   318.136   208.170   285.913   -487.259   63.044   104.600   312.288   212.316   226.373   -479.275   316.733   106.400   329.588   215.305   306.833   -479.275   215.305   216.305   21   | 104.600   305.312   194.646   254.533   -496.600   18.611   104.600   309.764   199.350   264.993   -492.240   40.918   104.600   318.136   208.170   285.913   -487.259   63.044   104.600   312.588   216.305   236.373   -479.275   105.783   104.600   329.588   216.305   306.833   -479.275   105.783   104.600   329.589   220.147   317.293   -470.745   149.885   
   
  | 104.600   305.312   194.646   254.533   -496.600   18.611   104.600   309.764   199.350   264.993   -492.240   40.918   104.600   318.136   208.170   285.913   -487.259   63.044   104.600   312.588   216.305   236.373   -479.275   105.783   104.600   329.588   216.305   306.833   -479.275   105.783   104.600   329.589   220.147   317.293   -470.745   149.885   
   
                               | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   309.764   199.350   264.993   -492.240   40.918   104.600   318.136   208.170   285.913   -487.259   63.044   104.600   312.288   212.316   226.373   -479.275   316.733   106.400   329.588   215.305   306.833   -479.275   215.305   216.305   21   | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   309.764   199.350   264.993   -492.240   40.918   104.600   318.136   208.170   285.913   -487.259   63.044   104.600   312.288   212.316   226.373   -479.275   316.733   106.400   329.588   215.305   306.833   -479.275   215.305   216.305   21   | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   309.764   199.350   264.993   -492.240   40.918   104.600   318.136   208.170   285.913   -487.259   63.044   104.600   312.288   212.316   226.373   -479.275   105.783   106.400   225.888   215.305   306.833   -479.275   215.305   216.305   206.833   -479.275   216.305   2   | 104,600   305,312   194,646   254,533   -495,600   18,611   104,600   305,744   199,350   264,993   -492,240   40,918   104,600   318,136   208,170   285,913   -487,279   63,044   104,600   312,584   212,316   226,373   -479,275   104,783   104,600   325,288   215,305   306,833   -479,275   105,783   104,600   325,288   215,305   306,833   -470,275   149,885   104,600   329,345   320,475   317,293   -470,745   149,885  
   | 104,600   305,312   194,646   254,533   -495,600   18,611   104,600   305,744   199,350   264,993   -492,240   40,918   104,600   318,136   208,170   285,913   -487,279   63,044   104,600   312,584   212,316   226,373   -479,275   104,783   104,600   325,288   215,305   306,833   -479,275   105,783   104,600   325,288   215,305   306,833   -470,275   149,885   104,600   329,345   320,475   317,293   -470,745   149,885   
   | 104,600   305,312   194,646   254,533   -495,600   18,611   104,600   305,744   199,350   264,993   -492,240   40,918   104,600   318,136   208,170   285,913   -487,279   63,044   104,600   312,584   212,316   226,373   -479,275   104,783   104,600   325,288   215,305   306,833   -479,275   105,783   104,600   325,288   215,305   306,833   -470,275   149,885   104,600   329,345   320,475   317,293   -470,745   149,885   
  | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   305.744   199.350   264.993   -492.240   40.918   104.600   314.034   203.853   275.453   -487.289   63.044   104.600   318.136   208.170   285.913   -487.276   84.996   104.600   322.588   213.246   208.833   -479.275   206.783   204.600   275.288   206.783   206  | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   305.744   199.350   264.993   -492.240   40.918   104.600   314.034  
203.853   275.453   -487.289   63.044   104.600   318.136   208.170   285.913   -487.276   84.996   104.600   322.588   213.246   208.833   -479.275   206.783   204.600   275.288   206.783   206   | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   305.744   199.350   264.993   -492.240   40.918   104.600   314.034   203.853   275.453   -487.289   63.044   104.600   318.136   208.170   285.913   -487.276   84.996   104.600   322.588   213.246   208.833   -479.275   206.783   204.600   275.288   206.783   206   | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   305.744   199.350   264.993   -492.240   40.918   104.600   314.034   203.853   275.453   -487.289   63.044   104.600   318.136   208.170   285.913   -487.276   84.996   104.600   322.588   213.246   208.833   -479.275   206.783   204.600   275.288   206.783   206   | 104.600   305.312   194.646   224.533   -496.600   18.611   104.600   309.764   199.350   264.993   -492.240   40.918   104.600   318.136   208.170   285.913   -487.259   63.044   104.600   312.288   212.316   226.373   -479.275   105.783   106.400   225.888   215.305   306.833   -479.275   215.305   216.305   206.833   -479.275   216.305   2   | 104.600   305.312   194.646   254.533   -496.600   18.611   104.600   309.764   199.350   264.993   -492.240   40.918   104.600   318.136   208.170   285.913   -487.259   63.044   104.600   312.588   216.305   236.373   -479.275   105.783   104.600   329.588   216.305   306.833   -479.275   105.783   104.600   329.589   220.147   317.293   -470.745   149.885   
  | 104,600   305,312   194,646   254,533   -496,600   18,611   104,600   309,764   199,350   254,933   -492,240   40,918   104,600   318,136   208,170   285,913   -487,279   63,044   104,600   312,588   216,306   306,833   -479,275   106,783   104,600   325,888   216,306   306,833   -470,275   106,783   104,600   329,589   220,147   317,293   -470,978   128,410   |
| 104,600 134,014 203,835 264,593 492,240<br>104,600 134,014 203,835 275,433 487,899<br>104,600 131,8136 208,170 285,913 483,576<br>104,600 132,204 211,213 295,473 479,275<br>104,600 137,878 716,405 106,411 474,000   | 104,600 369,764 199,330 264,993 -422240 40,918<br>104,600 314,034 203,853 275,453 -487,899 63,044<br>104,600 322,084 212,316 296,373 -433,576 84,96<br>104,600 322,084 212,316 296,373 -479,275 106,783<br>104,600 325,888 216,305 306,833 -474,998 128,410<br>104,600 375,887 216,305 306,833 -474,998 128,410   
   
   
  | 104,600 303,164 199,350 264,993 -492240 40,918<br>104,600 318,136 208,170 285,913 -487,899 63,044<br>104,600 322,084 212,316 265,373 -479,275 106,783<br>104,600 323,888 216,335 306,833 -479,275 106,783<br>104,600 329,539 220,147 317,293 -470,745 149,885  
   
   
  | 104,600 318,136 208,170 264,593 -4292,40 40,918 104,600 318,136 208,170 285,913 -478,899 63,044 104,600 318,136 208,170 285,913 -479,275 106,739 104,600 325,088 216,316 206,373 -479,275 106,783 104,600 325,888 216,303 306,833 -474,998 128,410 104,600 325,889 216,373 317,293 -470,745 149,885  
   
   
   
  | 104,600 303,64 199350 264,993 429240 40,918 104,600 318,136 208,170 285,913 467,929 63,044 104,600 322,828 216,316 206,373 470,275 106,783 104,600 322,88 216,303 306,833 474,998 128,410 104,600 329,539 220,147 317,293 470,745 149,885  
   
   
   
  | 104,600 303,64 199350 264,993 429240 40,918 104,600 318,136 208,170 285,913 467,929 63,044 104,600 322,828 216,316 206,373 470,275 106,783 104,600 322,88 216,303 306,833 474,998 128,410 104,600 329,539 220,147 317,293 470,745 149,885  
   
   
  | 104,600 318,136 208,170 264,593 -4292,40 40,918 104,600 318,136 208,170 285,913 -478,899 63,044 104,600 318,136 208,170 285,913 -479,275 106,739 104,600 325,088 216,316 206,373 -479,275 106,783 104,600 325,888 216,303 306,833 -474,998 128,410 104,600 325,889 216,373 317,293 -470,745 149,885  
   
   
   
   | 104,600 303,64 1993,50 264,593 -422240 40,918<br>104,600 318,136 208,170 285,913 -487,899 63,044<br>104,600 322,084 212,316 206,373 -479,275 106,783<br>104,600 322,084 212,316 206,373 -479,275 106,783<br>104,600 325,888 216,330 306,833 -470,478 128,410<br>104,600 325,889 210,147 317,293 -470,745 149,885  
   
  | 104,600 303,64 199350 264,993 429240 40,918 104,600 318,136 208,170 285,913 467,929 63,044 104,600 322,828 216,316 206,373 470,275 106,783 104,600 322,88 216,303 306,833 474,998 128,410 104,600 329,539 220,147 317,293 470,745 149,885  
   
   
   
   | 104,600 318,136 208,170 285,931 -4922,40 40,918 104,600 318,136 208,170 285,913 -487,899 63,044 104,600 312,528 218,136 208,170 285,913 -487,879 63,044 104,600 322,88 216,306 306,833 -479,275 106,733 104,600 329,538 216,306 306,833 -479,275 106,733 104,600 329,539 220,147 317,293 -470,745 149,885   
   
   | 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -429,276 84,996 104,600 322,88 216,306 306,83 -479,275 106,733 104,600 325,88 216,305 306,833 -470,275 118,410 104,600 329,58 220,147 317,229 -470,745 149,885   | 104,600 318,136 208,170 285,931 4292,240 40,918 104,600 318,136 208,170 285,913 478,99 63,044 104,600 312,528 218,136 208,170 285,913 478,97 63,044 104,600 32,528 216,305 306,833 479,275 106,733 104,600 325,88 216,305 306,833 470,475 112,810 104,600 329,529 220,147 317,293 470,745 149,885  
   
  | 104,600 318,136 208,170 285,931 4292,240 40,918 104,600 318,136 208,170 285,913 478,99 63,044 104,600 312,528 218,136 208,170 285,913 478,97 63,044 104,600 32,528 216,305 306,833 479,275 106,733 104,600 325,88 216,305 306,833 470,475 112,810 104,600 329,529 220,147 317,293 470,745 149,885  
   
                               | 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -429,276 84,996 104,600 322,88 216,306 306,83 -479,275 106,733 104,600 325,88 216,305 306,833 -470,275 118,410 104,600 329,58 220,147 317,229 -470,745 149,885   | 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -429,276 84,996 104,600 322,88 216,306 306,83 -479,275 106,733 104,600 325,88 216,305 306,833 -470,275 118,410 104,600 329,58 220,147 317,229 -470,745 149,885   | 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -429,276 84,996 104,600 322,88 216,306 306,83 -479,275 106,733 104,600 325,88 216,305 306,833 -470,275 118,410 104,600 329,58 220,147 317,229 -470,745 149,885   | 104,600 318,136 208,170 285,913 -4272,40 40,918 104,600 318,136 208,170 285,913 -4272,75 40,918 104,600 318,136 208,170 285,913 -4272,75 84,996 104,600 322,88 216,305 306,833 -479,275 106,733 104,600 325,88 216,305 306,833 -470,275 106,735 104,600 329,58 220,147 317,229 -470,745 149,885  
   | 104,600 318,136 208,170 285,913 -4272,40 40,918 104,600 318,136 208,170 285,913 -4272,75 40,918 104,600 318,136 208,170 285,913 -4272,75 84,996 104,600 322,88 216,305 306,833 -479,275 106,733 104,600 325,88 216,305 306,833 -470,275 106,735 104,600 329,58 220,147 317,229 -470,745 149,885   
   | 104,600 318,136 208,170 285,913 -4272,40 40,918 104,600 318,136 208,170 285,913 -4272,75 40,918 104,600 318,136 208,170 285,913 -4272,75 84,996 104,600 322,88 216,305 306,833 -479,275 106,733 104,600 325,88 216,305 306,833 -470,275 106,735 104,600 329,58 220,147 317,229 -470,745 149,885   
  | 104,600 318,136 208,170 285,913 -4272,40 40,918 104,600 318,136 208,170 285,913 -4272,75 84,996 104,600 325,88 216,306 306,813 -4772,75 104,600 325,88 216,306 306,813 -4772,75 106,773 104,600 325,88 216,305 306,813 -474,998 128,410 104,600 329,589 220,147 317,229 -470,745 119,885  | 104,600 318,136 208,170 285,913 -4272,40 40,918 104,600 318,136 208,170 285,913 -4272,75 84,996 104,600 325,88 216,306 306,813 -4772,75 104,600
325,88 216,306 306,813 -4772,75 106,773 104,600 325,88 216,305 306,813 -474,998 128,410 104,600 329,589 220,147 317,229 -470,745 119,885   | 104,600 318,136 208,170 285,913 -4272,40 40,918 104,600 318,136 208,170 285,913 -4272,75 84,996 104,600 325,88 216,306 306,813 -4772,75 104,600 325,88 216,306 306,813 -4772,75 106,773 104,600 325,88 216,305 306,813 -474,998 128,410 104,600 329,589 220,147 317,229 -470,745 119,885   | 104,600 318,136 208,170 285,913 -4272,40 40,918 104,600 318,136 208,170 285,913 -4272,75 84,996 104,600 325,88 216,306 306,813 -4772,75 104,600 325,88 216,306 306,813 -4772,75 106,773 104,600 325,88 216,305 306,813 -474,998 128,410 104,600 329,589 220,147 317,229 -470,745 119,885   | 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -4292,40 40,918 104,600 318,136 208,170 285,913 -429,276 84,996 104,600 322,88 216,306 306,83 -479,275 106,733 104,600 325,88 216,305 306,833 -470,275 118,410 104,600 329,58 220,147 317,229 -470,745 149,885   | 104,600 318,136 208,170 285,931 4292,240 40,918 104,600 318,136 208,170 285,913 478,99 63,044 104,600 312,528 218,136 208,170 285,913 478,97 63,044 104,600 32,528 216,305 306,833 479,275 106,733 104,600 325,88 216,305 306,833 470,475 112,810 104,600 329,529 220,147 317,293 470,745 149,885  
  | 104,600 318,136 208,170 285,931 -4922,40 40,918 104,600 318,136 208,170 285,913 -487,899 63,044 104,600 312,528 218,136 208,170 285,913 -487,879 63,044 104,600 322,88 216,306 306,833 -479,275 106,733 104,600 329,538 216,306 306,833 -479,275 106,733 104,600 329,539 220,147 317,293 -470,745 149,885  |
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  | 194,600         318.136         208.170         285.913         -483.576         84.996           104,600         322.884         212.316         226.373         -479.275         106.783           104,600         325.888         216.305         306.833         -474.998         128.410           104,600         329.539         220.147         317.293         -470.745         149.885   
   
   
   
  | 194,600         318.136         208.170         285.913         -483.576         84.996           104,600         322.084         212.316         226.373         -479.275         106.783           104,600         322.588         216.305         306.833         -474.998         128.410           104,600         329.559         220.147         317.293         -470.345         149.885   
   
   
   
  | 194,600         318.136         208.170         285.913         -483.576         84.996           104,600         322.084         212.316         226.373         -479.275         106.783           104,600         322.588         216.305         306.833         -474.998         128.410           104,600         329.559         220.147         317.293         -470.345         149.885   
   
   
  | 194,600         318.136         208.170         285.913         -483.576         84.996           104,600         322.884         212.316         226.373         -479.275         106.783           104,600         325.888         216.305         306.833         -474.998         128.410           104,600         329.539         220.147         317.293         -470.745         149.885   
   
   
   
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  | 194,600         318.136         208.170         285.913         -483.576         84.996           104,600         322.084         212.316         226.373         -479.275         106.783           104,600         322.588         216.305         306.833         -474.998         128.410           104,600         329.559         220.147         317.293         -470.345         149.885   
   
   
   
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   | 104,600         318,136         208,170         285,913         -483,576         84,996           104,600         322,588         216,336         -479,275         106,783           104,600         329,588         220,147         317,293         -470,278         128,410           104,600         329,559         220,147         317,229         -470,745         149,885  
   | 104,600         318,136         208,170         285,913         -483,576         84,996           104,600         322,588         216,336         -479,275         106,783           104,600         329,588         220,147         317,293         -470,278         128,410           104,600         329,559         220,147         317,229         -470,745         149,885  
  | 104,600   318,136   208,170   285,913   -483,576   84,996   104,600   322,584   212,316   206,373   -479,275   106,783   106,400   232,588   236,305   306,833   -474,998   128,410   104,600   329,559   230,47   317,239   -470,745   195,855   104,600   239,331,105   230,331,105     | 104,600   318,136   208,170   285,913   -483,576   84,996   104,600   322,584   212,316   206,373   -479,275   106,783   106,400   232,588  
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   | 104.600         318.136         208.170         285.913         -483.576         84.996           104.600         322.084         212.316         226.373         -479.275         106.783           104.600         329.588         216.305         306.833         -474.998         128.410           104.600         329.559         220.147         317.293         -470.745         149.885   |
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   | 1011 775 CON- CE1175 +COC77 CO1175 CONTROL   |
|  | \$17111 77C00t- CC1117C +CO1CT CO11CC CO11C1  
   
   
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  | ALC: 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17   |
|  | \$17111 77C001 CC1117C CC1177 CD11CCC CC11171   
   
   
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|  | *17111 77C00+_ CC1117C +CCTT CD11CCC cont.c.  
   
   
  | *17111 77C00+_ CC1117C +CCTT CD11CCC cont.c.   
   
   
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  | ALC: 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17   |
|  | \$17111 77C00t- CC117C +C0177 CD11CC CC1111   
   
   
  | \$17111 77C00t- CC117C +C0177 CD11CC CC1111  
   
   
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   | \$17111 77C00t- CC117C tcc177 CD11CC ccc111   
   
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                               | \$17111 77C00t- CC117C tcc177 CD11CC ccc111  | \$17111 77C00t- CC117C tcc177 CD11CC ccc111  | \$17111 77C00t- CC117C tcc177 CD11CC ccc111  | \$17111 77C00t- CC117C tcc177 CD11CC ccc111  
   | \$17111 77C00t- CC117C tcc177 CD11CC ccc111   
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  | \$17111 77C00t- CC117C tcc177 CD11CC ccc111   | \$17111 77C00t- CC117C tcc177 CD11CC ccc111  
   | \$17111 77C00t- CC117C tcc177 CD11CC ccc111  | \$17111 77C00t- CC117C tcc177 CD11CC ccc111  | \$17111 77C00t- CC1117C +CO1CT CO11CC CO11C1   | \$17:1/1 77C00t- CC1:17C +C0:C77 CD1:CCC cont.c.   
  | ALC: 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17   |
|  | \$17111 77C00t- CC117C tcc177 CD11CC ccc111   
   
   
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   | \$17111 77C00t- CC117C +C0177 CD11CC CC1111  | \$17111 77C00t- CC117C +C0177 CD11CC CC1111  
   
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  | ALC: 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17   |
|  | \$17111 77C00t- CC117C tcc177 CD11CC ccc111   
   
   
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  | ALC: 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17   |
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  | ALC: 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17   |
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1/2/2 - 1/2/   | 7/1/1 //COM- CE1:17C +CO:C77 CO1:CCC con:Lot  | 7/1/1 //COM- CE1:17C +CO:C77 CO1:CCC con:Lot  
  | 7/1/1 //COM- CE1:17C +CO:C77 CO1:CCC con:Lot   | 7/1/1 //COM- CE1:17C +CO:C77 CO1:CCC con:Lot   | 104:000 333:103 223.04 327.733 -466.577 171.714  | 104:000 333:103 223:834 327.753 -466:577 171:714  
   | 104:000 333:103 223:834 327.753 -466:577 171:714   |

CURRENT June 1968

Sodium Peroxide (Na<sub>2</sub>O<sub>2</sub>)

PREVIOUS. June 1963

,	Δ <sub>m</sub> H° = Unknown	7 = 048 K
Δ <sub>tr</sub> H° = 5.732 kJ·mol <sup>-1</sup>   T/K C; S' -[G	Δ <sub>tr</sub> H° = 5.732 kJ·mol <sup>-1</sup>	. = 785 ± 1 K
- I·K-¹mol-¹	$\Delta_{\rm p}H^{\circ}(298.15~{\rm K}) = -513.21 \pm 5.0~{\rm kJ \cdot mol^{-1}}$	$^{\circ}(298.15 \text{ K}) = 94.80 \pm 1.3 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$
Enthalpy Reference Temperature	$\Delta_{\rho}H^{\circ}(0 \text{ K}) = -507.34 \pm 5.0 \text{ kJ} \cdot \text{mol}^{-1}$ Enthalpy Reference Temperature	

CRYSTAL (a-B)

Sodium Oxide (Na<sub>2</sub>O<sub>2</sub>)

The eminalty change of the reaction Na<sub>2</sub>O<sub>2</sub>(cr) + H<sub>2</sub>O(1) = 2 NaOH(aq, 1200 H<sub>2</sub>O) + 1/2 O<sub>2</sub>(g) was measured at 18.5°C by Roth and K He employed a sample with composition 96.81% Na<sub>2</sub>O<sub>2</sub> and 3.4% Na<sub>2</sub>O by weight. Using  $\Delta_{aa}$ H°(Na<sub>2</sub>O<sub>3</sub>, cr) = -56.02 kcal·mol<sup>-1</sup>, derived the value  $\Delta_{aa}$ H°(Na<sub>2</sub>O<sub>3</sub>, cr) = -34.85 kcal·mol<sup>-1</sup>. This value was later corrected to be -35.75 kcal·mol<sup>-1</sup> by Roth.<sup>2</sup> From thes we calculate the entralpy of formation (298.15 K) of Na<sub>2</sub>O<sub>2</sub>(ct) as -121.0 kcal·mol<sup>-1</sup>. Forcrand obtained Δ<sub>ta</sub>H\* = -36.65 kcal·mo the same reaction, quoted by Roth and Kaule, 1 yielding  $\Delta H^{\circ}$ (Na,Q), cr. 298.15 K) = -120.0 kcal·mol<sup>-1</sup>. The auxiliary data  $\Delta_H^{\circ}$ (Na,Q28.15 K) = 112.458 kcal·mol<sup>-1</sup> is derived based on  $\Delta_H^{\circ}$ (NaC 298.15 K) = 112.458 kcal·mol<sup>-1</sup> is derived based on  $\Delta_H^{\circ}$ (NaC 298.15 K) = -101.90 kcal·mol<sup>-1</sup> from JANAF Table and  $\Delta_{\infty}H^{\circ}$ (aq,  $\infty$ ) = -10.637 kcal·mol<sup>-1</sup> and  $\Delta_{\infty}H^{\circ}$ (aq, 1200 H<sub>2</sub>O = aq,  $\infty$ ) = -**Enthalpy of Formation** kcal-mol-1 from Parker.

Gilles and Margrave<sup>3</sup> determined the enthalpy change of the reaction Na<sub>2</sub>O<sub>3</sub>(cr) + H<sub>2</sub>O(l) = 2 NaOH(aq, 3800 H<sub>2</sub>O) + 1/2 O<sub>2</sub>(g), u purer sample (Na<sub>2</sub>O<sub>3</sub>, 99.2%; Na<sub>2</sub>O, 0.8%). Based on the reported value  $\Delta_4H^3(298.15 \text{ K}) = -34.0 \pm 0.3 \text{ kcal·mol}^{-1}$  and  $\Delta_5H^3(NaOH:aq, 3800 H<sub>2</sub>O, 298.15 \text{ K}) = -112.487 \text{ kcal·mol}^{-1}$ , we calculate  $\Delta_5H^3(298.15 \text{ K}) = -122.66 \pm 1.2 \text{ kcal·mol}^{-1}$  for Na<sub>2</sub>C Leffler and Wiederhorn<sup>6</sup> studied the oxygen pressure melt composition for the liquid sodium oxygen system between 780 and 980 °C. results, together with the thermodynamic data for Na<sub>2</sub>O<sub>2</sub>, were used to calculate the enthalpies and Gibbs energies of formation compositions between NaO<sub>10</sub> and NaO<sub>2</sub>. However, there are no numerical results reported. Therefore these data are not used for eval

The enthalpy of formation at 298.15 K is adopted as -122.66 ± 1.2 kcal-mol-1.

# Heat Capacity and Entropy

The low temperature heat capacities, 52.31 296.22 K, were measured by Todd.<sup>7</sup> His sample contains (percent) 94 Na<sub>2</sub>O<sub>2</sub>(cr), 3.6 Na and 2.4 Na<sub>2</sub>CO<sub>3</sub>. Corrections in the reported results have been made for Na<sub>2</sub>CO<sub>3</sub> content, but not for Na<sub>2</sub>O content which was estims be small. The C<sub>2</sub> values below 52.31 K are calculated using the equation C<sub>3</sub> = D(252/7) + 3E(399/7) reported by Todd. S'(298.1). derived from the adopted C, based on S'(50 K) = 1.012 cal·K-1-mol-1

made for the contributions from impurities (Na<sub>2</sub>CO<sub>3</sub>, 1.5 and Na<sub>2</sub>O, 0.2%). A discontinuity was observed in the enthalpies between 7 793 K, indicating some kind of transition (see Transition Data). The C, for Na<sub>2</sub>O<sub>2</sub>(α) at temperatures 298-769.5 K are derived fre entratpy measurements, 375.4–769.5 K, and joined smoothly with the low temperature data at 298.15 K, and extrapolated to 785 K(T<sub>w</sub> C, for Na<sub>2</sub>O<sub>2</sub>(β) is derived from the entralpy data, 794–869.2 K, as constant, 27.15 cal·K<sup>-1</sup>·mol<sup>-1</sup>, and extrapolated to 2500 K. The high temperature enthalpies, 375.4-869.2 K, were determined by Chandrasekharaiah et al., \* using drop calorimetry. Correction

Vedeneev and Skuratov? measured the high temperature specific heat of Na<sub>2</sub>O<sub>2</sub>(cr) in the temperature interval 292-373 K using ad calorimetry. The reported average value, 21.46 cal-K-1 mol-1, is in fair agreement with the adopted ones.

### Transition Data

.... was reported by Tallman and Margrave, 10 who measured the X-ray power diffraction pattern by a Geiger counter diffractome found that at about 510°C the pattern changes entirely and a new set of peaks indicates a new phase. Separate thermal analysis measuren confirm the transition temperature ( $\alpha \rightarrow \beta$ ) is 512  $\pm$  1°C or 785  $\pm$  1 K, which is adopted here. Foppl<sup>11</sup> found a thermal anomaly at in both heating and cooling curves. Δ<sub>17</sub>H° is derived from the adopted enthalpy and C°, data on Na<sub>2</sub>O<sub>2</sub>(α) and Na<sub>2</sub>O<sub>2</sub>(β)

### **Fusion Data**

T<sub>es</sub> is obtained from Bunzel and Kohlmeyer. <sup>12</sup> T<sub>iss</sub> = 733 and 783 K were reported by Blumenthal<sup>13</sup> and Rode and Gol'der, <sup>14</sup> respec which are not adopted.

### References

<sup>1</sup>W. A. Roth and H. L. Kaule, Z. Anorg. Chem. 253, 352 (1947). <sup>2</sup>W. A. Roth, Z. Anorg. Chem. 255, 324 (1948)

<sup>3</sup>U. S. Nat. Bur. Stand. Tech. Note 270-1, (1965).

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V. Vedeneev and S. M. Skuratov, Zh. Fiz. Khim. 25, 837 (1951).
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 Y. Rode and G. A. Gol'der, Izv. Akad. Nauk SSSR, Otd. Khim. Nauk 3, 299 (1956).

-lom-	Enthalpy Re	ference Te	mperature .	Enthalpy Reference Temperature = T, = 298.15 K	K	Standard Stal	Standard State Pressure = p = 0.1 MPa	0.1 MPa	
-mol-1	i	ŀ	_=				;	3	
l-mol-	¥.	ប	ر د د	-[G*-H*(T,)]/T	H"-H"(T,)	ρΉ	2	Ng Ar	
nwom	0	Ö		NFINITE	-15.707	-507.339	-507.339	INFINITE	
	<u>8</u> 8	40.689	20.882	102.600	-14.263	-511.480	-470.583	122,904	
Kaule,	298.15	89.266		94.801	ರ	-513.209	-449.627	78.773	
Roth	908	89.408	95.354	94.803	0.165	-513.203	-449.233	78.218	
se data	8	127.72	122.268	98.416	9.541	-518.042	-427.560	55.834	
ol-i for	3 8	107.00	164.003	113.687	20.24	-515.707	- 387 706	33 318	
H,0,1,	38	112.332	181.108	122.127	41.287	-513.908	-360.668	26.913	
OH, α,	785.000		194.149	129.230	20.961	ALPHA	HA <> BETA		
-0.0/9	000 cg/		103.505	057.671	50.054		ATO 055 -		
	38	13.5%	216.981	139.473	757.69	-503.773	-318,303	18.474	
using a	1000	113.5%	228.949	147.833	81.117	-501.650	-297.810	15.556	
To Co	1100	113.596	239.776	155.707	92.476	-499.616	-277.525	13.179	
7.50	220	1328	249.660	163.130	103,830	077169-	-216130	8.684	
of male	8	113.5%	267.173	176.775	126.555	-684.018	-179.997	6.716	_
OI INCII	0051	113.5%	275.008	183.065	137.914	-680.457	-144.121	5.019	
ntation.	0091	113.5%	282.340	189.043	149.274	-676.922	-108.480	3,542	
	925	13.5%	289.226	194.736	160.634	-6/3.412	- 77.050	8001	
	88	13.58	301.861	200.168	183.353	-666.465	-2.825	0.078	
7	2002	113.5%	307.688	210.332	194712	-663.028	32.014	-0.836	
a <sub>2</sub> O(ct)	2100	113 596	313,230	215.101	206.072	-659.616	66.682	-1.659	_
nated to	2200	113.596	318.515	219.682	217.431	-656.229	101.189	-2.403	
15 K) is	2300	113.596	323.564	224.090	228.791	-652.869	135.542	-3.078	
	2400	355	373.036	232,432	251.510	-646233	203.817	-4259	
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Na<sub>2</sub>O<sub>3</sub>Si<sub>4</sub>(cr)

Standard State Pressure = p = 0.1 MPa

255.383 187.350 146.420 257.070

-1561.442 -1567.208 -1566.925

NFINITE

-1551.203 -1528.150 -1498.083

-1551,203 -1556,736 -1560,031

 $H^{\bullet}-H^{\bullet}(T_r)$ 

 $-[G^{\bullet}-H^{\circ}(T_{*})]T$ 

J-K-1mol-1

-1467.330

-1561.427

113.847 113.849 118.459 127.635

111.880

0. 25.568 73.542 113.847 114,540 119.146 99.683 85.105 73.785 64.747

-1563.937 -1561.578 -1558.788 -1555.650

138.390 149.583 160.732 171.625 182.174

147.114 153.946 159.749 164.841 169.423

285.801

-1466.746 -1434.679 -1401.538 -1368.581 -1338.853 -1303.425 -1271.319 -1271.319

-1565.766

0. 0207 12264 25.615 39.922 54.985 70.677 86.911

204.926

0 200 200 200 300 400 500 600 700 800 900 1100 1130 1300

112.395 127.779 138.716

57.368 51.020 45.196

40.220

-1077.989

-1730,507 -1724,308 -1717.869

174.582 193.224

220.641

345,343 340.278

> 184.736 188.100 191.347

88

370.441

-- CRYSTAL <--> LIQUID ---

-1172.091 -1124.817

-1742.114

120.783 138.343 156.283 167.587

192,346 202,140 211,566 217,233

302.149 317.425 331.783

173.628 177.540 181.230 183.407

-1208.096

-1552231

22.871 23.871 23.870 20.800

-935.624 -939.617 -891.492 -843.772

-1754.069 -1746.650 -1738.971

237.824 245.972 253.854 261.485 268.880

404.182

-1731.037

276.056 283.026 289.804 296.401 302.829

424.543 434.209 443.571 452.653 461.476

25,22,25 25,25 25,

212.187 231.564 251.219 271.125 291.328 311.822 332.601 353.663 375.003

18.643 16.691 14.916 13.298 11.817

-749.517 -702.968 -656.798 -611.000 -565.567

CURRENT: September 1967

M<sub>r</sub> = 122.06324 Sodium Silicate (Na<sub>2</sub>SiO<sub>3</sub>)

Enthalpy Reference Temperature = T, = 298.15 K  $\Delta_{\rm f} H^{\circ}(0 \, {\rm K}) = -1551.20 \pm 4.2 \, {\rm kJ \cdot mol^{-1}}$   $\Delta_{\rm f} H^{\circ}(298 \, 15 \, {\rm K}) = -1561 \, 43 \pm 4.2 \, {\rm kJ \cdot mol^{-1}}$  $S^{\circ}(298.15 \text{ K}) = 113.847 \pm 1.3 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ 

HC(aq), H<sub>2</sub>SO<sub>4</sub>(aq), and N<sub>2</sub>O<sub>5</sub>(cr). The corresponding enthalpy changes,  $\Delta H^{\circ}(298.15 \text{ K})$ , for the reaction N<sub>2</sub>O<sub>5</sub>(cr) + SiO<sub>2</sub>(quartz) = N<sub>2</sub>SiO<sub>3</sub>(cr) are derived as -55.20 and -56.38 kcal·mol<sup>-1</sup>. Adopting the weighted average  $\Delta_1 H^{\circ}(298.15 \text{ K}) = -55.59$  kcal·mol<sup>-1</sup> with Δft H° = 51.798 kJ·mol-1 originally -87.66) and -88.74 kcal-mol-1 (sulfate scheme, originally -89.19), using recent A.H. (298.15 K) values for NaCl(cr), Na<sub>3</sub>SO<sub>4</sub>(cr), The enthalpies of solution of NaCl(cr), Na<sub>2</sub>SO<sub>4</sub>(cr), SiO<sub>2</sub>(quartz), Na<sub>2</sub>SiO<sub>3</sub>(cr), HCl(aq) and H<sub>2</sub>SO<sub>4</sub>(aq) in 20% hydrofluoric acıd at 74.7°C were incasured by Kracek. The author derived two values of  $\Delta_{ab}$  H° of Na<sub>2</sub>O(cr) from those of NaCl(cr), Na<sub>2</sub>SO<sub>4</sub>(cr), HCl(aq) and H<sub>2</sub>SO<sub>4</sub>(aq) presumably employing auxiliary data from. We recalculate  $\Delta_{th}$  H° of Na<sub>2</sub>O(cr) in the calorimetric solution as -87.50 (chloride scheme, Δμ"(Na<sub>2</sub>O, cr, 298.15 K) = -99.9 kcal·mol<sup>-1</sup> and Δμ"(SiO<sub>2</sub>, quartz, 298.15 K) = -217.7 kcal·mol<sup>-1</sup>, we obtain Δμ"(298.15 K) = -373.19 kcal·mol<sup>-1</sup> for Na<sub>2</sub>SiO<sub>2</sub>(cr). This Δ<sub>t</sub>H°(Na<sub>2</sub>SiO<sub>3</sub>, cr, 298 15 K) value is independent of future changes in Δ<sub>t</sub>H°(298.15 K) of Na<sub>2</sub>O(cr) but the values of Δ<sub>t</sub>a H² and Δ<sub>t</sub>H² are not independent. The adopted value of Δ<sub>t</sub>H²(Na<sub>2</sub>, cr, 298.15 K) is the average of -100.1 and -99.7 kcal·mol<sup>-1</sup> reported by Roth and Kaule<sup>3</sup> and Matsui and Oka, respectively. Enthalpy of Formation  $\Gamma_{trr} = 1362 \pm 0.5 \,\mathrm{K}$ 

-67.96 and -89.9 kcal-mol<sup>-1</sup>, respectively Using these results, we calculate the enthalpy change of the reaction Na<sub>2</sub>O(cr) + SiO<sub>2</sub>(quartz) = Na<sub>2</sub>SiO<sub>3</sub>(cr) as -53.79 kcal·mol<sup>-1</sup> and A<sub>4</sub>H<sup>2</sup>(Na<sub>2</sub>SiO<sub>3</sub>, cr, 298 15 K) = -371.39 kcal mol<sup>-1</sup>.

By use of high temperature reaction calorimetry, Kroger and Janetzko<sup>6</sup> have determined the enthalpy change of the reaction Roth and Troitzsch<sup>3</sup> have measured the enthalpies of solution of SiO<sub>2</sub>(quartz), Na<sub>2</sub>SiO<sub>3</sub>(cr) and Na<sub>2</sub>O(cr) in 10.3% HF at 22°C to be -32.85,

Na,C<sub>3</sub>(cr) + Na,Si<sub>2</sub>O<sub>3</sub>(g, 1) = 2 Na<sub>2</sub>SiO<sub>3</sub>(cr) + CO<sub>2</sub>(g) as 17.99 kcal-mol<sup>-1</sup>. Based on Δ<sub>1</sub>H'(298.15 K) = -270,26, -382.92 and -94.05 The enthalpies of solution of Na<sub>2</sub>CO<sub>3</sub>(cr), SiO<sub>2</sub>(quartz) and Na<sub>2</sub>SiO<sub>3</sub>(cr) in 39% HF at 26.5°C were measured to be -244.1, -564.5 and -673.6 cal·g<sup>-1</sup> by Hummel and Schwiete.<sup>7</sup> From these results we calculate the enthalpy change to be 22.43 kcal·mol<sup>-1</sup> for the reaction kcal·mol-1 for Na2SiO3(cr).

Many other older calorimetric measurements have been made in order to derive the enthalpies of formation for Na,SiO<sub>2</sub>(cr), but most of these are of questionable accuracy and in some cases the products of the reaction are uncertain. For further details, refer to the review by Na<sub>2</sub>CO<sub>3</sub>(cr) + SiO<sub>2</sub>(quartz) = Na<sub>2</sub>SiO<sub>3</sub>(cr) + CO<sub>2</sub>(g), yielding Δη<sup>4</sup> (Na<sub>2</sub>SiO<sub>3</sub>, cr, 298.15 K) = -371.48 kcal·mol<sup>-1</sup>.

# Heat Capacity and Entropy

The low temperature heat capacities, 53.6-294.5 K, were measured by Kelley, and high temperature enthalpies, 360.5-1747 K were determined by Naylor. <sup>10</sup> The high temperature heat capacities are derived from the measured enthalpy data and joined smoothly with the low temperature C<sub>p</sub> values. The entropy at 298.15 K is calculated using the adopted low temperature heat capacities, based on 5°(50 K) = 1.195 cal K-1-mol-

### Fusion Data

Refer to the liquid table for details.

<sup>1</sup>F. C. Kracek, Ann. Rept. Director of the Geophysical Laboratory, No. 1215, 69 (1953).
<sup>2</sup>U. S. Nat. Bur. Stand. Circ. 500, (1952).

<sup>3</sup>W. A. Roth and H. L. Kaule, Z. Anorg. Chem. 253, 352 (1947); ibid. 255, 324 (1948).

<sup>6</sup>D. C. Kroger and W. Janetzko, Z. Anorg. Allg. Chem. 284, 83 (1956).
<sup>7</sup>C. Hummel and H. E. Schwiete, Glastech. Ber. 32, 327 (1959).
<sup>4</sup>N. W. McCready, J. Phys. Colloid. Chem. 52, 1277 (1948).
<sup>7</sup>K. K. Kelley, J. Amer. Chem. Soc. 61, 471 (1939).
<sup>10</sup>B. F. Naylor, J. Amer. Chem. Soc. 67, 466 (1945). <sup>4</sup>M. Matsui and S. Oka, J. Soc. Chem. Ind. (Japan) 32, 79 (1929).
<sup>5</sup>W. A. Roth and H. Troitzsch, Z. Anorg. Chem. 260, 337 (1949).

Sodium Silicate (Na<sub>2</sub>SiO<sub>3</sub>)

PREVIOUS: June 1965

J. Phys. Chem. Ref. Data, Monograph 9

CURRENT: September 1967

Na<sub>2</sub>O<sub>3</sub>Si<sub>1</sub>(I)

LIQUID

Sodium Silicate (Na<sub>2</sub>SiO<sub>3</sub>)

M<sub>r</sub> = 122.06324 Sodium Silicate (Na<sub>2</sub>SiO<sub>3</sub>)

 $\Delta_{\rm r}H^{\circ}(298.15 \text{ K}) = [-1510.875] \text{ kJ·mol}^{-1}$   $\Delta_{\rm tus}H^{\circ} = 51.798 \text{ kJ·mol}^{-1}$ 

 $S^{\circ}(298.15 \text{ K}) = [150.496] \text{ J·K}^{-1} \cdot \text{mol}^{-1}$   $T_{tat} = 1362 \pm 0.5 \text{ K}$ 

The heat capacity above 900 K is derived as constant from the high temperature enthalpy data, 1414-1747 K, measured by Naylor. A glass transition temperature is assumed at 900 K, i.e., the heat capacities below 900 K are taken to be those for Na<sub>2</sub>SiO<sub>3</sub>(cr). Heat Capacity and Entropy

H°(298.15 K), between the crystal and liquid.

**Enthalpy of Formation** 

# \$%1, 298.15 K) is calculated in a manner analogous to that used for the enthalpy of formation. The low temperature heat capacities, 63.74-162.48 K, have been measured by Tarasov and Savitskaya, however, these are not adequate to be used to evaluate \$\mathbb{C}(298.15 K)\$

The adopted Tim = 1362 K, determined by Kracek, is in good agreement with the value 1261 K reported by Jaeger and later confirmed by Morey and Bowen.5 **Fusion Data** 

Other reported T<sub>ras</sub> values are 1280, 1291, and 1329 K by Kultascheff, Wallace<sup>7</sup> and van Klooster, respectively. These values are all lower than the adopted T<sub>ha</sub> value, probably because the sample compositions were not the exact composition of metasilicate.

The value of  $\Delta_{lm}H^2$  is evaluated from the adopted heat capacities for Na<sub>2</sub>SiO<sub>3</sub>(cr) and Na<sub>2</sub>SiO<sub>3</sub>(t), and the enthalpy data reported by Na<sub>2</sub>Vior, assuming the final state of the calorimetric sample to be Na<sub>2</sub>SiO<sub>3</sub>(cr). From the phase diagrams of Na<sub>2</sub>SiO<sub>3</sub> with other compounds, Kelley<sup>3</sup> derived the values of  $\Delta_{tur}H^{\circ}$  of 9.8-10.5 kcal·mol<sup>-1</sup>

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G. W. Morey and N. L. Bowen, J. Phys. Chem. 28, 1167 (1924).

Y. V. Kultascheff, Z. Anorg. Chem. 55, 186 (1903).

R. C. Wallace, Z. Anorg. Chem. 63, 1 (1909).

H. S. van Klooster, Z. Anorg. Chem. 69, 135 (1910).

K. K. Kelley, U. S. Bur. Mines Bull. 393, (1936).

Standard State Pressure = p = 0.1 MPa 250.128 248.496 182.663 143.053 116.659 97.825 83.719 72.766 56.891 50.750 45.101 40.274 36.104 32.467 32.467 29.254 20.379 21.391 19.283 11.372 15.633 14.043 64.024 --- CRYSTAL <--> LIQUID --log K GLASS <--> LIQUID TRANSITION -1198.055 -1165.888 -1122.451 -1427.188 -1398.786 -1369.330 -1340.018 -1310.955 -1282.192 -1253.751 1079.431 -994.504 -952.091 -907.454 -863.110 -819.040 -775.230 -731.665 -645.223 -645.223 -1225.699 -1427.704 -1515.214 -1513.385 -1511.025 -1508.235 -1500.086 -1689.797 -1684.338 -1510.890 -1516.655 -1516.373 -1678.966 -1673.677 -1713.518 -1708.238 -1702.994 -1697.785 -1692.613 -1687.478 -1682.381 -1677.322 -1672.303 -1504.081 -1668.470 -1510.875 klimof.  $\Delta_i H^{\bullet}$  $H^{\bullet}-H^{\bullet}(T_i)$ 0. 0.207 12.264 25.615 39.922 54.985 70.677 86.912 86.912 104.644 122.375 140.107 157.839 168.833 175.571 193.303 211.034 228.766 246.498 264.29 281.962 281.963 317.425 335.157 370.621 Enthalpy Reference Temperature = T, = 298.15 K  $S^{\bullet} - [G^{\bullet} - H^{\bullet}(T_{\bullet})]T$ 150.496 150.498 155.108 164.284 164.284 185.233 186.232 197.381 208.274 208.274 218.882 229.175 239.098 248.632 254,349 257.780 274.969 283.047 298.269 305.452 312.373 319.049 335.495 331.725 J-K-'mol-' 340.425 355.854 370.047 378.308 150.496 181.189 185.767 215.514 241.575 264.782 285.727 304.843 304.843 304.843 383.188 395.421 406.865 417.615 427.750 437.337 446.433 164.842 177.318 147.114 153.946 159.749 164.842 177.318 177.318 177.318 177.318 177.318 177.318 177.318 77.318 77.318 77.318 77.318 ΔH°(Na<sub>2</sub>SiO<sub>3</sub>, 1, 298.15 K) is calculated from ΔH°(Na<sub>2</sub>SiO<sub>3</sub>, cr, 298.15 K) by adding Δ<sub>14</sub>H° and the difference in enthalpy, H°(1362 K)–

Sodium Silicate (Na<sub>2</sub>SiO<sub>3</sub>)

Na<sub>2</sub>O<sub>3</sub>SI<sub>1</sub>(cr,l)

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= p = 0.1 MFa	log Kr	INFINITE 798.224 391.259	257.070	187,383	119.146	85.105	64.74	57.368 51.020 45.196	OD O	40.274	32.467	26.33 23.729	21.391	19.283 17.372 15.633	12.585	
re rressure = p	$ abla^{Q} $	-1551.203 -1528.150 -1498.083	-1467.330	-1466.746 -1434.679 -1401.558	-1368.581	-1303.425	-1239.544	-1208.096 -1172.091 -1124.817	TAL <> LIQUID TRANSITION	-1079.431 -1036 792	-994.504	-907.454 -863.110	-819.040	-775.230 -731.665 -688.334	-645.223 -602.322	
Mandard State Pressure	1	-1551.203 -1556.736 -1560.031	-1561.427	-1561.442 -1567.208 -1566.935	-1565.766	-1561.578	-1555.650	-1552.231 -1742.114 -1736.446	S.	-1678.966 -1673.677	-1668.470	-1708.238	-1697.785	-1692.613 -1687.478 -1682.381	-1 <i>677.322</i> -1 <i>672.3</i> 03	
	H*-H*(T,)	-18.913 -17.143 -9.982	oʻ	0.207 12.264 35.55	39.922	70.67	103.628	120.783 138.343 156.283	167.587 219.385	226.123 243.855	261.587	314.782	332.514	350.246 367.978 385.709	403.441 421.173	
Lantiapy reference remperature = 1, = 275.15 F.	-{G*-H*(T,)]/T	INFINITE 196.995 123.451	113.847	113.849	138.390	160.732	182.174	192.346 202.140 211.566	217.233	221.671 232.851	243,374	262.722	280.176	288.300 296.070 303.515	310.661	
J-K-'mol-'	S -{G	0. 25.568 73.542	113.847	114.540	204.926	249.078	285.801	302.149 317.425 331.783	340.278	383 188 395.421	406.865	427.750	446.433	455.084 463.333 471.215	478.762 486.000	
cierence 16	ប	0. 48.308 89.743	111.880	112.395	147.114	159.749	169.423	173.628 177.540 181.230		177.318	177.318	177.318	177.318	177318	177.318	
cantialpy R	7.K	°88	298.15	888	88	388	88	288	1362.000	140 1500	1600	<u>88</u>	2000	7,700	2500 2500	

CRYSTAL-LIQUID

Refer to the individual tables for details.

0 to 1362 K crystal above 1362 K liquid

Sodium Silicate (Na<sub>2</sub>SiO<sub>3</sub>)

J. Phys. Chem. Ref. Data, Monograph 9

CURRENT. June 1978

# Sodium St

Sodium Sulfate, defta (Na <sub>2</sub> SO <sub>4</sub> )	CRYSTAL(6)	
$S^{\circ}(298.15 \text{ K}) = [163.212] \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ $T_{\text{tr}}(1 \to \delta) = [986] \text{ K}$		4

Na204S1(cr)

Standard State Pressure =  $p^* = 0.1$  MPa

Enthalpy Reference Temperature = T, = 298.15 K

 $\Delta_t H^{\circ}(298.15 \text{ K}) = [-1379.294] \text{ kJ·mol}^{-1}$  $\Delta_{\rm tr} H^{\circ}(I \to \delta) = [0.502] \text{ kJ·mol}^{-1}$   $\Delta_{\rm tr} H^{\circ}(\delta \to I) = [21.338] \text{ kJ·mol}^{-1}$ 

J.K -'mol -'

M<sub>t</sub> = 142.03714 Sodium Sulfate, Delta (Na<sub>2</sub>SO<sub>4</sub>)

kJ·mol-1

 $H^{\bullet}-H^{\bullet}(T_{\epsilon})$   $\Delta_{\epsilon}H^{\bullet}$ 

S -[G--H(T,)]T

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TK

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221.690 220.200 160.132 123.960 99.854 82.652 99.870 99.709 14.682 14.682 14.682 14.8837 25.054

-1146,990 -1107.631 -1068,569 -1028,786 -984,557

-1383.905 -1382.180 -1379.714 -1429.489 -1423.838

0. 0.288 16.269 32.714 49.611 67.097 104.333 124.539 145.970 1

169.477 181.355 194.889 208.664 2222.184 235.287 247.951 272.090 272.0000 272.000 272.

277.574 304.516 328.4516 351.212 372.490 392.907 412.592 431.600 449.977

155.896 163.050 166.251 171.816 178.113 195.979 208.112 220.811 232.086 242.881 251.283

848 85888 58848

-940.945 -834.384 -776.504

-1417,113 -1602,887 -1592,358 -1580,856 -1568,503

-1265.387 -1264.680 -1226.248 -1186.573

-1379.261 -1385.063 -1384.866

### Enthalpy of Formation

 $T_{hat}(\delta \to 1) = [1170] \text{ K}$ 

The enthalpy of formation adopted in this tabulation is obtained from  $\Delta_t H^0(298.15 \, K)$  for Na<sub>2</sub>SO<sub>4</sub>(cr, I) by adding  $\Delta_u H^0(1 \to \delta)$  and the difference between H\*(986 K) H\*(298.15 K) for Na2SO4(cr, I) and Na2SO4(cr, 8).2

Heat Capacity and Entropy

Heat capacities in the range 900-1010 K were measured by Shmidt and Sokolov¹ in an adiabatic calorimeter. We have graphically extrapolated these data down to 298.15 K, paralleling the C₂ data of Na<sub>2</sub>SO<sub>4</sub>(α, I), and extended the data smoothly to 1500 K. Our calculated enthalpies are biased by some 300 cal.K⁻¹ mol⁻¹ above the experimental results (for the I phase) of Denielou et al.³ and Coughlin.⁴ See the discussion in the Na2SO4(cr. I) table.

### **Transition Data**

do not agree with measured enthalpies above 980 K. The evidence for the existence of the  $\delta$  phase is not conclusive. We have deleted the  $\delta$  phase from our combined phase table for Na<sub>2</sub>SO<sub>4</sub>. The heat of transition  $\Delta_{\alpha\beta}H'(1 \to \delta, 986 \text{ K}) = 120 \text{ cal} \cdot \text{mol}^{-1}$  is obtained by graphical integration of the area between the measured  $C_{\alpha}^{*}$  curve from and the adopted  $C_{\alpha}^{*}$  curve for Na<sub>2</sub>SO<sub>4</sub>(cr, I). The temperature of the transition is assumed to be 986 K. The existence of Na<sub>2</sub>SO<sub>4</sub>(cr, 8) is based on the work of Shmidt and Sokolov¹ who found an anomolous region in the heat capacity curve Kirkina have observed an orthorhombic modification of Na,SO, at 993 K by X-ray diffraction. As noted above, our calculated enthalpies of Na<sub>2</sub>SO<sub>4</sub>(ct, I) between 963-993 K. Popov and Ginzburg\* also observed a sharp change in the heat capacity above 837.6 K. Simanov and

### **Fusion Data**

Based on our selected  $C_p^o$  values for Na<sub>2</sub>SO<sub>4</sub>( $\alpha$ ,  $\delta$ ) and Na<sub>2</sub>SO<sub>4</sub>(l), we derive  $\Delta_{la_0}H^2(\delta \to l) = 5.10 \pm 0.10$  kcal·mol<sup>-1</sup> using the experimental puid enthalpies from Denielou et al.<sup>3</sup> and Coughlin.<sup>4</sup>  $T_{la_0}(\delta \to l) = 1170$  K is the calculated temperature at which  $\Delta_1G^o = 0$  for  $Na_2SO_4(cr, \delta) \rightarrow Na_2SO_4(l)$ 

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JANAF Thermochemical Tables: Na2SO4(cr, I), Na2SO4(I), 6-30-78.

Denielou, V. Fournier, J. P. Petitet, and C. Tequi, C. R. Acad. Sci., Paris, Ser. C269, 1577 (1969).
 P. Coughlin, J. Amer. Chem. Soc. 77, 868 (1955).

<sup>3</sup>M. M. Popov and D. M. Ginzburg, J. Gen. Chem. USSR 26, 1107 (1956).
<sup>5</sup>Y. P. Simanov and D. R. Kirkina, Russ. J. Inorg. Chem. 2, 364 (1957).

Sodium Sulfate, Delta (Na2SO4)

PREVIOUS: December 1966

Na<sub>2</sub>O<sub>4</sub>S<sub>1</sub>(cr)

CURRENT: June 1978

M<sub>r</sub> = 142.03714 Sodium Sulfate, I (Na<sub>2</sub>SO<sub>4</sub>)

 $\Delta_{uv}H^{o}(III \rightarrow I) = 6.887 \pm 0.084 \text{ kJ} \cdot \text{mol}^{-1}$   $\Delta_{uv}H^{o}(IV \rightarrow I) = 10.908 \pm 0.084 \text{ kJ} \cdot \text{mol}^{-1}$  $\Delta_e H^{\circ}(298.15 \text{ K}) = [-1380.899 \pm 0.8] \text{ kJ mol}^{-1}$  $S^{\circ}(298.15 \text{ K}) = [160.132 \pm 4.2] \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ 

The enthalpy of formation adopted in this tabulation is obtained from  $\Delta_t H^0(Na_5SO_4$ , cr. III, 298 15 K) by adding  $\Delta_u H^0(III \rightarrow I_1$ , 509 K) = 1646 cal·K<sup>-1</sup>·mol<sup>-1 12</sup> and the difference between  $H^0(509 \text{ K}) H^0(298 \text{ 15 K})$  for  $Na_2SO_4(\text{cr. III})$  and  $Na_2SO_4(\text{cr. II})$ .  $\Delta_{\text{fm}}H^{\circ}(1 \rightarrow 1) = 23.849 \pm 0.42 \text{ kJ·mol}^{-1}$ The enthalpy of formation  $T_{\rm tr}(III \to I) = 509 \pm 1 \text{ K}$   $T_{\rm tr}(IV \to I) = 514 \pm 1 \text{ K}$   $T_{\rm tr}(I \to I) = 1157 \pm 1 \text{ K}$ **Enthalpy of Formation** 

# Heat capacities of Na<sub>3</sub>SO<sub>4</sub>(et, I) have been measured by Shmidt and Sokolov<sup>2</sup> in an adiabatic calorimeter over the temperature range 538.65–1021.75 K. The direct heating measurements of Popov and Galchenko<sup>4</sup> using a heat flow calorimeter are in substantial agreement. Enthalpy measurements by drop calorimetry have been carried out by Coughlin,<sup>5</sup> 515–1143 K, Popov and Ginzburg,<sup>6</sup> 1173–1290 K, May,<sup>7</sup> (520–1157 K), and by Denielou et. al.,<sup>8</sup> 516–1154 K. Heat Capacity and Entropy

our derived  $G_p^p$  values are lower than the calorimetric  $G_p^{aa}$  results below 800 K but show the proper slope Derived  $G_p^a$  values from Denielou et al. are in agreement with the calorimetric results above 930 K. All of the experiments seem to show a change in the slope of the Ca curve The data of May are not in agreement with the other enthalpy results. The enthalpy data of references 6.4 are in general agreement but near 900 K. We adopt C, from 530-880 K from and extrapolate smoothly to 1500 K. C, values below 530 K are obtained by graphical extrapolation. The entropy, \$\,^{202.15 K}\), is calculated in a manner analogous to that of the heat of formation.

### **Transition Data**

low temperature modifications (III, IV, V) are converted to the high temperature form between  $500-530 \text{ K}^2 \Delta_{ur}H^o(IV \to I$ , 514 K) = 2607 cal·mol<sup>-1</sup>, <sup>1</sup>  $\Delta_{ur}H^o(V \to I$ ,  $512 \text{ K}) = 2663 \text{ cal·mol}^{-1}$ , <sup>1</sup> and  $\Delta_{ur}H^o(III \to I$ ,  $509 \text{ K}) = 1646 \text{ cal·mol}^{-1}$ , <sup>1</sup>  $\Delta_{ur}H^o(V \to I$ ,  $512 \text{ K}) = 2663 \text{ cal·mol}^{-1}$ , <sup>1</sup> and  $\Delta_{ur}H^o(III \to I$ ,  $509 \text{ K}) = 1646 \text{ cal·mol}^{-1}$ , <sup>1</sup>  $\Delta_{ur}H^o(IV \to I$ ,  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>2</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·mol}^{-1}$ , <sup>3</sup>  $\Delta_{ur}H^o(IV \to I) = 1646 \text{ cal·m$ Na<sub>2</sub>SO<sub>4</sub>(σt, I) is the hexagonal modification (space group D<sup>14</sup><sub>2</sub> or C3ml)<sup>9</sup> n<sup>9</sup> of anhydrous sodium sulfate stable from 514–1157 K. All the

attributed the anomaly to a transition to another phase of Na<sub>2</sub>SO<sub>4</sub> which they referred to as the 8 phase. There is not sufficient evidence to warrant our inclusion of the 8 phase.

### Fusion Data

The enthalpy of melting of Na2SO4(cr, I)  $\rightarrow$  Na2SO4 (I) has been derived from drop calorimetry data by Denielou et. al.,  $^4$  5.58  $\pm$  0.13 kcal-mol<sup>-1</sup>, Coughlin,  $^5$  5.67  $\pm$  0.1 kcal-mol<sup>-1</sup>, Popov and Ginzburg,  $^6$  5.77  $\pm$  0.2 kcal-mol<sup>-1</sup>, and May,  $^7$  5.8  $\pm$  0.2 kcal-mol<sup>-1</sup>. No mention was made of the  $^5$  phase. Based on our selected  $^6$ , values for Na<sub>2</sub>SO<sub>4</sub>(cr, I) and Na<sub>2</sub>SO<sub>4</sub>(I), we derive  $^4$ 0.4  $^6$ 1  $^6$ 1  $^6$  5.00  $\pm$  0.10 kcal-mol<sup>-1</sup>, using the enthalpy data of Coughlin. There is good agreement on the melting temperature which we take as  $^7$ 1.0  $^6$ 1  $^6$ 1  $^6$ 1 K.

### References

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<sup>4</sup>M. M. Popov and G. L. Galchenko, J. Gen. Chem. USSR 21, 2489 (1951).
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	Enthalpy R	eference Te	imperature	Enthalpy Reference Temperature = Tr = 29&15 K	<b>52</b>	Standard St.	Standard State Pressure = $p^* = 0.1 \text{ MPa}$	$p^* = 0.1 \text{ MPa}$	
	ΤK	ដូ	)- & %	-[G*-H'(T,)]/T	НН	1	Φ'C•	log K <sub>r</sub>	
	0 8 8 0 0 0 0								
	298 15	159.620	160.132	160.132	Ö	-1380.899	-1266.074	221.811	
	300	159.724	161.120	160.135	0.295	-1380,859	-1265.361	220,319	_
	\$ <b>8</b>	170.017	245.088	178.571	33.258	-1386.419	-1226.666	123.983	
	514 000		249.793	180.447	35.644	1 1 1	- I <> \/		-
	9	175.331	276.549	192,345	50.522	-1384.599	-1147.069	198.66	
	88	181.042	303.999	206.375	68.337	-1382.545	-1107.634	82.653	
	8	193.845	351015	243.452	105 807	-13/9835	-1008.539	897.788	_
	000	200,309	371.773	246.259	125.515	-1424.467	-984.470	51.423	
_	1100	206.731	391.167	258.560	145.867	-1418.821	-940.739	44.672	
	1157,000	210.367	401.702	265.354	157.755	>1	> LIQUID		
_	1200	213.133	409.428	270.379	166.860	-1606.234	-892.663	38.857	
_	<u> </u>	219.447	426.739	281.746 292 696	188.490	-1597.830	-833.536	33.492	_
	1200	231.584	458.997	303.261	233.604	-1579.391	-717.276	24.978	
									-
_									-

Sodium Sulfate, I (Na2SO4)

PREVIOUS: December 1966

CURRENT: June 1978

CRYSTAL(III)

M<sub>r</sub> = 142.03714 Sodium Sulfate, III (Na<sub>2</sub>SO<sub>4</sub>)

Va2O4S1(cr)

 $\Delta_t H^0(0 \text{ K}) = -1373.71 \pm 0.63 \text{ kJ}$   $\Delta_t H^0(298.15 \text{ K}) = -1384.85 \pm 0.63 \text{ kJ}$   $\Delta_t H^0(III \rightarrow I) = 6.887 \pm 0.084 \text{ kJ}$ 

# $T_{\rm th}(III \rightarrow I) = 509 \pm 1 \, \rm K$

 $S^{(298.15 \text{ K})} = 154.908 \pm 0.4 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ 

process Na<sub>2</sub>SO<sub>4</sub>(cr, III) → Na<sub>2</sub>SO<sub>4</sub>(aq. 1088 H<sub>2</sub>O. Using ΔC<sub>7</sub> as determined by Conglin to extrapolate the heat of solution to 298 K<sub>4</sub>H<sup>4</sup>(Na<sub>5</sub>SO<sub>4</sub>, cr, III, 298.15 K) = −1037 ± 20 cal·K<sup>-1</sup>·mol<sup>-1</sup>. Extrapolating to infinite dilution using the data of Lange and Streeck Wallace and Robinson<sup>3</sup> gives Δ<sub>4</sub>H<sup>4</sup>(Na<sub>5</sub>SO<sub>4</sub>, cr, III, 298.15 K) = −1282 ± 20 cal·K<sup>-1</sup>·mol<sup>-1</sup>. Using the same auxiliary data as at Δ<sub>4</sub>H<sup>4</sup>(Na<sub>5</sub>SO<sub>4</sub>, cr, III, 298.15 K) = −136.2 ± 20 cal·K<sup>-1</sup>·mol<sup>-1</sup>. Using the same auxiliary data as at Giaque<sup>4</sup> leads to Δ<sub>4</sub>H<sup>4</sup>(N → III, 298.15 K) = −16.15 kcal·mol<sup>-1</sup>. The enthalpy of solution data of Coughlin<sup>3</sup> as corrected by Brodale Giaque<sup>4</sup> leads to Δ<sub>4</sub>H<sup>4</sup>(Na<sub>5</sub>SO<sub>4</sub>, cr, III, 298.15 K) = −330.986 ± 0.2 kcal·mol<sup>-1</sup>. We adopt an intermediate value Δ<sub>4</sub>H<sup>4</sup>(Na<sub>5</sub>SO<sub>4</sub>, cr, 129.15 K) = −330.986 ± 0.2 kcal·mol<sup>-1</sup>. We adopt an intermediate value Δ<sub>4</sub>H<sup>4</sup>(Na<sub>5</sub>SO<sub>4</sub>, cr, 129.15 K) = −330.986 ± 0.2 kcal·mol<sup>-1</sup>. We adopt an intermediate value Δ<sub>4</sub>H<sup>4</sup>(Na<sub>5</sub>SO<sub>4</sub>, cr, 120.15 kcal·mol<sup>-1</sup> for this tabulation. for the process Na<sub>2</sub>SO<sub>4</sub>(er, III) → Na<sub>2</sub>SO<sub>4</sub>(aq, <sup>∞</sup>). When this result is combined with the enthalpies of formation of the infinitely dilut from CODATA,2 we obtain AtH\*(Na<sub>2</sub>SO<sub>4</sub>, aq. ∞, 298.15 K) = -332.266 ± 0.13 kcal·mol⁻land AH\*(Na<sub>2</sub>SO<sub>4</sub>, cr, III, 298.15 K) = -33 ± 0.15 kcal·mol<sup>-1</sup>. Coughlin³ also measured the enthalpy of solution,  $\Delta_{hh} H^0(Na_3SO_6, cr, III_303 K) = -1363 ± 4 cal·K<sup>-1</sup>·mol<sup>-1</sup> i$ Brodale and Giauque determined the enthalpy of solution at infinite dilution  $\Delta_{ab}H^{*}(Na_{5}SO_{4}, c_{7}, III, 298.15 K) = -1273 \pm 4 cal·K^{-1}$ Enthalpy of Formation

# Heat Capacity and Entropy

C, measurements of Shmidt and Sokolov. We combine the three sets of experimental data! 1.9 by graphical smoothing and by fitting data with orthogonal polynomials over selected overlapping temperature intervals.  $C_s^o$  is smoothly extrapolated to 1000 K.  $S^o(298.15)$  derived from our combined smooth fit based on  $S^o(14 \text{ K}) = 0.100$  cal·K<sup>-1</sup>·mol<sup>-1</sup> and  $H^o(14 \text{ K}) + H^o(0 \text{ K}) = 1.051$  cal·K<sup>-1</sup>·mol<sup>-1</sup> derived Heat capacities of Na<sub>5</sub>SO<sub>4</sub>(cr, III) have been measured by Brodale and Giauque¹ over the ragne 13.16-297.71 K and by Shmidt and So<sup>4</sup> capacity of Na<sub>2</sub>SO<sub>4</sub>(cr, III) but their results are intermediate between Na<sub>2</sub>SO<sub>4</sub>(cr, V) and Na<sub>2</sub>SO<sub>4</sub>(cr, III) indicating that their sample may been converted to as much as two-thirds of the V modification. Coughlin3 measured enthalpties of NasSO<sub>4</sub>(er, III) from 370.2-514.9 drop calorimetry, but his data appear high by 2% at 450 K. Enthalpy measurements of Denielou et al.? are in very good agreement wi in an adiabatic calorimeter over the temperature range 319.03-520.56 K. Paukov and Lavrent'eva also measured the low temperatur a Debye T3-law extrapolation.

at  $515 \pm 1$  K,  $\Delta_{co}H^{*}(III \rightarrow I) = 1650 \pm 90$  cal-mol<sup>-1</sup>; and by  $May^{11}$  at  $520 \pm 5$  K,  $\Delta_{co}H^{*}(III \rightarrow I) = 1150$  cal-mol<sup>-1</sup>. We adopt the trans temperature from the analysis of Brodale and Giauque. This is consistent with our analysis which yields  $\Delta_{co}H^{*}(III) = 100$  and  $\Delta_{co}H^{*}$ the absence of moisture, the high-temperature hexagonal form Na<sub>2</sub>SO<sub>4</sub>(er, I). Na<sub>2</sub>SO<sub>4</sub>(er, III) is metastable with respect to the two The second-order transformation from Na<sub>2</sub>SO<sub>4</sub>(cr, III) to Na<sub>2</sub>SO<sub>4</sub>(cr, I) in which both phases are metastable, has been observed by Si Na<sub>s</sub>SO<sub>ε</sub>(cr, III) is the meltable low-temperature orthorhombic modification of anhydrous sodium sulfate which is obtained on cooli low-temperature orthorhombic forms Na<sub>2</sub>SO<sub>4</sub>(cr, V) and Na<sub>2</sub>SO<sub>4</sub>(cr, IV). The space group of Na<sub>2</sub>SO<sub>4</sub>(cr, III) has been given as Cr heat of solution measurements on the separate crystalline forms by Coughlin, Brodale and Giauque<sup>1</sup> and Pickering,  $^{12}\Delta_{H}^{2}$ (V – 298.15 K) = 716 ± 8 cal mol  $^{12}$ ,  $^{13}$  699 ± 10 cal·mol  $^{-1}$  709 ± 10 cal·mol  $^{-1}$  13 and  $\Delta_{H}^{2}$ (V  $\rightarrow$  III, 294 K) = 708 ± 20 cal·mol  $^{-1}$  13. the hear of transition value from and the difference between H°(517 K)-H°(298.15 K) for Na<sub>2</sub>SO<sub>4</sub>(cr, III) and Na<sub>2</sub>SO<sub>4</sub>(cr, V),\* we and Sokolov³ at 521.5 K, ΔωH°(III → I) = 1642 ± 20 cal·mol⁻¹; by Coughlin³ at 514 K, ΔωH°(III → I) = 1680 cal·mol⁻¹, by Deniclou  $\Delta_{u}H^{0}(V \to III, 517 K) = 1041 \pm 20$  cal·mol<sup>-1</sup>. The heat of transition from metastable Na<sub>2</sub>SO<sub>4</sub>(cr, IV) to metastable Na<sub>2</sub>SO<sub>4</sub>(cr, discussed on the table for Na<sub>2</sub>SO<sub>4</sub>(cr, IV). Our analysis yields  $\Delta_{u}H^{0}(IV \to III, 519 K) = 988 \pm 20$  cal·mol<sup>-1</sup>.

### References

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<sup>2</sup>ICSU-CODATA Task Group on Key Values for Thermodynamics, CODATA Bulletin No. 28, (April 1978).

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<sup>4</sup>W. E. Wallace and A. L. Robinson, J. Amer. Chem. Soc. 63, 958 (1941).
<sup>5</sup>MANAF Thermochemical Tables: Na<sub>2</sub>SO<sub>4</sub>(cr, V), Na<sub>2</sub>SO<sub>4</sub>(cr, IV), Na<sub>2</sub>SO<sub>4</sub>(cr, IV), Na<sub>2</sub>SO<sub>4</sub>(cr, IV), Na<sub>2</sub>SO<sub>4</sub>(cr, IV)

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<sup>18</sup>K. S. Pitzer and L. V. Coulter, J. Amer. Chem. Soc. **60**, 1310 (1938).

Z.		(1) 40														
p*= 0.1 M	log K <sub>f</sub>	INFINITE 702008 341,232	222231	220.73S 160.377	99.765 25.769 72.507	69.628 59.618 51.427										
Standard State Pressure = p = 0.1 MPa	δ.Ο.Α	-1373.708 -1343.950 -1306.534	-1268.471	-1267.748	-1180,938 -1145,967 -1105,681	-1066.386 -1027.217 -984.542										
Standard Sta	Λ.H. (	-1373.708 -1379.841 -1383.300	-1384.854	-1384.870 -1392.687	-1392.103 -1394.508	-1376.164 -1418.266 -1403.389										
×	$H^{\bullet}-H^{\bullet}(T_i)$	-23.527 -20.481 -11.565	ď	0.239	48.973 70.329	94,376 121,116 150,548										
Enthalpy Reference Temperature = $T_r = 298.15 \text{ K}$	-[G*-H'(T,)]T	152.668 165.992	154.908	154.911	183.916 197.935	212.505 227.366 242.376										
emperature	() () ()	0. 47.861 108.169	154.908	195.709	265.539 298.405	330.475 361.939 392.924										
eference 7	ಚ	0. 68.216 105.621	129.168	129.570	200.091	253.935 280.859 307.779										
Enthalpy R	7.K	°008	298.15	868	3 8 8	0000										
l-non-l	-mol-	-Tom·	ite ions	30.993 for the	K gives	above, ale and /),° we	H H H	kolov' re heat	y have 9 K by ith the	ing the 5 K) is d from	 ling, in o other	Shmidt et al.	II → I.	Vsing.	obtain III) is	

Sodium Sulfate, III (Na<sub>2</sub>SO<sub>4</sub>)

PREVIOUS: December 1966

Va2O4S1(cr)

Standard State Pressure =  $p^* = 0.1 \text{ MPa}$ 

Enthalpy Reference Temperature = T, = 298.15 K

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 $H^{\bullet}-H^{\bullet}(T_{\bullet})$ 

S -{G-H'(T,)}T

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Σ¥

124.014

-1187,082 IV <---> I

0. 0237 13.943 22.600 29.158 31.396 45.577 63.394 82.246 102.191

165.842 167.491

210.462 224.159 228.572

298.15 300 400 458.000 500 514.000 700 700 1000

-1269.028 -1228.904 -1269.759

> -1387*57*7 -1395*6*54 -1396.687

150.157 150.159 155.407 161.117

128.143 128.495 145.101

153.331 158,908 160.712

-1387.559

VI <--> V ----

-1145.190 -1103.508 -1062.190 -1020.251 -973.962

-1396.104 -1394.148 -1390.999 -1439.895 -1433.438

178.113 190.967 203.879 216.620 229.091

254242 281.530 306.686 330.166 352.295

171,322 182,933 194,046 204,828 215,371

CURRENT June 1978

 $S^{\circ}(298.15 \text{ K}) = \{150.157 \pm 0.41 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ 

[\_(V → [V) = 458 ± 1 K 7...(IV → I) = 514 ± 1 K

Mr = 142.03714 Sodium Sulfate, IV (Na2SO4)

∆<sub>t</sub>H<sup>o</sup>(0 K) = [-1380.09] kJ·mol<sup>-1</sup>  $\Delta_t H^{\circ}(298.15 \text{ K}) = -1387.559 \pm 0.63 \text{ kJ} \cdot \text{mol}^{-1}$  $\Delta_{\rm cr}H^{\circ}(V \to IV) = 0.255 \pm 0.063 \text{ kJ} \cdot \text{mol}^{-1}$  $\Delta_{\rm tr}H^{\circ}({\rm IV} \to {\rm I}) = 10.908 \pm 0.084 \,{\rm kJ \cdot mol^{-1}}$ 

heat of solution experiments. We prefer to give complete weight to these results using the same calorimeter.  $\Delta_{ab}H^{\circ}(Na_3SO_a, cr, V, 298.15 \, K) = -574 \, cal\cdot K^{-1} \, mol^{-1}$  which leads to  $\Delta_{ab}H^{\circ}(V \to IV, 298.15 \, K) = 61 \pm 15 \, cal\cdot K^{-1} \, mol^{-1}$ . When this is combined with auxiliary Brodale and Giauque determined the enthalpy of solution at infinite dilution  $\Delta_{ab}H^o(Na_2SO_4, cr, IV, 298.15 K) = 635 \pm 1 kcal·mol^-1 for$ CODATA,2 we obtain AH"(Na2SO4, aq, 00, 298.15 K) = 332.266 ± 0.13 kcal-mol-land AH"(Na2SO4, cr, IV, 298.15 K) = -331.631 ± 0.15 keal-mol-1. Brodale and Giauque' have also determined the difference in Δ<sub>t</sub>H°(298.15 K) between Na<sub>3</sub>SO<sub>4</sub>(στ, IV) and Na<sub>3</sub>SO<sub>4</sub>(στ, V) by direct the process Na<sub>2</sub>SO<sub>4</sub>(cr, IV) → Na<sub>2</sub>SO<sub>4</sub>(aq, ∞). When this result is combined with the enthalpies of formation of the infinitely dilute ions from data for Na<sub>2</sub>SO<sub>4</sub>(cr, V), we obtain Δ<sub>H</sub>\*(Na<sub>5</sub>SO<sub>4</sub>, cr, IV, 298.15 K) = -331.635 ± 0.15 kcal·mol -1. This value of Δ<sub>H</sub>\*(298.15 K) is adopted in this tabulation

### Heat Capacity and Entropy

The heat capacity of Na<sub>2</sub>SO<sub>3</sub>(cr, IV) has been taken equal to the heat capacity of the V form from 298-514 K.<sup>1</sup> The heat of transition (V → IV) adopted here leads to a calculated entropy of transition of 0.133 cal·K<sup>-1</sup>·mol<sup>-1</sup> and S'(Na<sub>2</sub>SO<sub>3</sub>, cr, IV, 458 K) = 50.304 cal·K<sup>-1</sup>·mol<sup>-1</sup>. Brodale and Giauque' state that the small difference in entropy (between IV and V) means that on the average the heat capacity of Na<sub>2</sub>SO<sub>4</sub>(cr, IV) should exceed the heat capacity of Na<sub>2</sub>SO<sub>4</sub>(cr, V) by only about 0.3% over the range 298–514 K. We calculate S'(Na<sub>2</sub>SO<sub>4</sub> cr, IV, 298.15 K) = 35.887 cal·K<sup>-1</sup>·mol<sup>-1</sup>.

### Transition Data

temperatures. The presence of moisture enhances the achievement of equilibrium. A recent Raman and DSC study has failed to observe the IV modification. The  $(V \to IV)$  transition at 458 K has been discussed previously (see <sup>3</sup> and above),  $\Delta_i H^2(V \to IV, 298.15 \text{ K}) = 61 \pm 15$  cal-mol<sup>-1</sup>. Since  $\Delta C_p^* = 0^{1.3} \Delta_{pp} H^2(V \to IV, 458 \text{ K}) = 61 \pm 15$  cal-mol<sup>-1</sup>. The temperature of 458 K for the transition is taken from Kracek\* and Brodale and Giauque. Na<sub>2</sub>SO<sub>4</sub>(ct, IV) is the orthorhombic modification of anhydrous sodium sulfate stable from 458 514 K. ' <sup>4</sup> This form can persist down to low

measured although Shmidt and Sokolov<sup>2</sup> obtained  $\Delta_{\rm eff}^{\mu}$ (516 K) = 2584 ± 15 cal·mol<sup>-1</sup> for a sample of ground Na<sub>2</sub>SO<sub>4</sub> which could have been Na<sub>2</sub>SO<sub>4</sub>(cr, IV) (see <sup>1</sup>). We adopt the value of the heat of transition  $\Delta_{\rm eff}^{\mu}$ (IV  $\rightarrow$  1, 514 K) = 2607 ± 20 cal·mol<sup>-1</sup>. This is obtained by summation of  $\Delta_{\rm eff}^{\mu}$ (IV  $\rightarrow$  III)<sup>1,3</sup> and  $\Delta_{\rm eff}^{\mu}$ (III  $\rightarrow$  II)<sup>1,3</sup> all reduced to 514 K. Other measurements include that of Kreidl and Simon<sup>6</sup> who found  $\Delta_{\rm eff}^{\mu}$ (IV  $\rightarrow$  1, 511 K) = 2300 cal·mol<sup>-1</sup> and Popov and Galchenko<sup>6</sup> who found  $\Delta_{\rm eff}^{\mu}$ (518 K) = 2586 ± 64 cal·mol<sup>-1</sup> on first heating. The transition from Na<sub>2</sub>SO<sub>4</sub>(cr, IV) to Na<sub>2</sub>SO<sub>4</sub>(cr, I) has been found to occur at 514 K.<sup>14</sup> The heat of the transition has not been directly Later heating apparently converted some sample over to the III modification. Brodale and Giauque¹ give △"H"(IV → I, 514 K) = 2611 cal·mol"-

separate crystalline forms. Brodale and Giauque' obtained  $\Delta_{ab}H^{*}(Na_{s}SO_{a}, cr, IV, 298.15 \text{ K}) = -635 \pm 1 \text{ cal·mol}^{-1}$  and  $\Delta_{ab}H^{*}(Na_{s}SO_{a}, cr, IV, 298.15 \text{ K}) = -1273 \pm 4 \text{ cal·mol}^{-1}$  from which  $\Delta_{ab}H^{*}(IV \to III, 298.15 \text{ K}) = 638 \pm 10 \text{ cal·mol}^{-1}$ . Combining this result with the difference and Sokolov<sup>3</sup> have measured the heats of transformation of Na<sub>2</sub>SO<sub>4</sub>(thenardite)  $\rightarrow$  Na<sub>2</sub>SO<sub>4</sub>cr, I) and Na<sub>2</sub>SO<sub>4</sub>(cr, III)  $\rightarrow$  Na<sub>2</sub>SO<sub>4</sub>(cr, I) calorimetrically from which we obtain  $\Delta_u H^3$  (thenardite  $\rightarrow$  III, 516 K) = 954  $\pm$  20 cal·mol<sup>-1</sup>. Brodale and Giauque<sup>1</sup> have speculated that the The heat of transition from metastable Na<sub>2</sub>SO<sub>4</sub>(cr, IV) to metastable Na<sub>2</sub>SO<sub>4</sub>(cr, III) is obtained from heat of solution measurements on the between H°(519 K)-H°(298.15 K) for Na<sub>2</sub>SO<sub>4</sub>(cr, IV) and Na<sub>2</sub>SO<sub>4</sub>(cr, III) we obtain ∆<sub>cr</sub>H°(IV → III, 519 K) = 988 ± 20 cal·mol<sup>-1</sup>. Shmidt 'ground thenardite" of Shmidt and Sokolov's was actually the IV modification of Na,SO,

<sup>1</sup>G. E. Bordale and W. F. Giauque, J. Phys. Chem. 76, 737 (1972).

ICSU CODATA Task Group on Key Values for Thermodynamics, CODATA Bulletin No. 28, (April 1978).

<sup>1</sup>ANAF Thermochemical Tables. Na<sub>2</sub>SO<sub>4</sub>(cr, V), Na<sub>2</sub>SO<sub>4</sub>(cr, III), Na<sub>2</sub>SO<sub>4</sub>(cr, I), 6-30-78. <sup>1</sup>F. C. Kracek, J. Phys. Chem. 33, 1281 (1929); F. C. Kracek and R. E. Gibson, J. Phys. Chem. 33, 1304 (1929); 34, 188 (1930).

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Sodium Sulfate, IV (Na<sub>2</sub>SO<sub>4</sub>)

**PREVIOUS:** 

Enthalpy of Formation

CURRENT: June 1978

# Sodium Sulfate, V (Na<sub>2</sub>SO<sub>4</sub>)

W<sub>r</sub> = 142.03714 Sodium Sulfate, V (Na<sub>2</sub>SO<sub>4</sub>) CRYSTAL(V)

Na<sub>2</sub>O<sub>4</sub>S<sub>1</sub>(cr)

Standard State Pressure = p = 0.1 MPa

C ino

 $H^{\bullet}-H^{\bullet}(T_{\epsilon})$   $\Delta_{\epsilon}H^{\bullet}$ 

S -{G-H'(T,))T

ť

ž

J.K-'mol-1\_

NEINTE 703.259 341.725 222.472 220.973 160.483

-1376.361 -1346.347 -1308.422

-1376.361 -1382.711 -1386.221 -1387.816 -1395.911 -1396.944

-1269.117 -1228.937 -1269.849

-1387.834

149.597 154.845 160.555 165,280 177.551 190.404 203.316 216.057 228.529

128.495 145.101 158.908

153331

28.000 28.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000

128.143

209.905 223.596 150.388

ö

149.595

0. 43.120 103.010 149.595

0. 66.542 105.667

0 100 200 298.15

V <--> V -1187.058

log K,

99.691 82.335 69.341 59.199 50.859 124.011

-1145.110 -1103.372 -1061.997 -1020.002 -973.656

-1396.362 -1394.406 -1391.257 -1440.154 -1433.696

253.678 280.966 306.122 329.602 351.731

171,322 182,933 194,046 204,828 215,371

0237 13.943 22.602 29.158 45.676 63.393 82.245 102.190

 $\Delta_t H^0(0 \text{ K}) = -1376.361 \pm 0.63 \text{ kJ·mol}^{-1}$   $\Delta_t H^0(298.15 \text{ K}) = -1387.816 \pm 0.63 \text{ kJ·mol}^{-1}$ 

Enthalpy Reference Temperature = T, = 298.15 K  $\Delta_{us}H^{\circ}(V \to IV) = 0.255 \pm 0.063 \text{ kJ·mol}^{-1}$ 

# $S^{(298.15 \text{ K})} = 149.595 \pm 0.4 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$

""(V → IV) = 458 ± 1 K

Shibata et. al.' measured the emf of the cell: Na(amalgam, 0.2077%)Na<sub>3</sub>SO<sub>4</sub>(sat. soln), Hg<sub>2</sub>SO<sub>4</sub>(Hg at 305–310 K. Extrapolating their results to 298 K, correcting the observed voltage for the formation of the Na amalgam, and converting to absolute volts, we have E<sub>cut</sub> = 3.33404 volts for the reaction at 298 K, 2 Na(cr) + Hg<sub>2</sub>SO<sub>4</sub>(cr) = 2 Hg(I) + Na<sub>2</sub>SO<sub>4</sub>(cr. V). From this voltage we calculate AG<sup>2</sup>(298.15 K) = -153.77 kcal·mol<sup>-1</sup>. Taking AG<sup>2</sup>(Hg<sub>2</sub>SO<sub>4</sub>, cr. 298.15 K) = -149.66 kcal·mol<sup>-1</sup> and reference entropies from, we calculate AG<sup>2</sup>(Na<sub>2</sub>SO<sub>4</sub>, cr. V, 298.15 K) = -303.43 kcal·mol<sup>-1</sup> and Aff<sup>4</sup>(Na<sub>3</sub>SO<sub>4</sub>, cr. V, 298.15 K) = -311.60 ± 0.2 kcal·mol<sup>-1</sup>. The enthalpy of solution at infinite dilution, Δa<sup>2</sup>H<sup>2</sup>(Na<sub>3</sub>SO<sub>4</sub>, cr. V, 298.15 K) = -570 ± 10 cal·K<sup>-1</sup>·mol<sup>-1</sup> adopted in this tabulation is based on our reanalysis of the enthalpy of solution measurements of Gardner et al., Brodale and Giauque, Prizzer and Coulter, Coughlin<sup>7</sup> **Enthalpy of Formation** 

we obtain  $\Delta H^{2}(Na_{3}SO_{4}, aq, \infty, 298.15 \text{ K}) = -332.266 \pm 0.13 \text{ kcal·mol}^{-1} \text{ and } \Delta_{1}H^{2}(Na_{3}SO_{4}, cq, V, 298.15 \text{ K}) = -331.696 \pm 0.15$  $^{3}$  –564 ± 10 cal·K<sup>-1</sup> mol<sup>-1</sup>, 2,  $^{6}$  –565 ± 30 cal·K<sup>-1</sup> mol<sup>-1</sup>, 5,  $^{7}$  and –567 ± 12 cal·K<sup>-1</sup> mol<sup>-1</sup>, 9. We adopt  $\Delta_{H}^{0}$  (Na<sub>2</sub>SO<sub>4</sub>, ct, V, 298.15 K) = -331.696 ± 0.5 kcal·mol<sup>-1</sup> from the heat of solution results for consistency with the other as corrected in, and Readnour and Cobble. When this result is combined with heats of formation of the infinitely dilute ions from CODATA, kcal-mol-1. The experimental  $\Delta_{ab}H^{\circ}$  values and the number of determinations are  $-582\pm5$  cal·K<sup>-1</sup>·mol<sup>-1</sup>, 6, 4-574 cal·K<sup>-1</sup>·mol<sup>-1</sup>,

modifications of Na2SO4(cr).

## Heat Capacity and Entropy

Denielou et. al. 12 These measured enthalpies are higher than our calculated enthalpies by 68, 98, and 28, respectively at 400 K. The C.\* measurements of Popov and Galchenko<sup>13</sup> from 373-468 K appear to be biased, being too low at 373 K and too high at 468 K. S°(298.15 K) is derived from our combined smooth fit based on S°(14 K) = 0.059 cal·K<sup>-1</sup> mol<sup>-1</sup> and H°(14 K)-H°(0 K) = 0.620 cal·mol<sup>-1</sup> derived from in an adiabatic calorimeter over the temperature range 324.62-503.06 K. Shmidt<sup>10</sup> later carried out additional measurements which he the experimental data<sup>6,9,10</sup> by fitting the data with orthogonal polynomials over selected overlapping temperature intervals. The data have Heat capacities of Na<sub>2</sub>SO<sub>4</sub>(cr, V) have been measured by Pitzer and Coulter over the range 13.74-313.44 K and by Shmidt and Sokolov<sup>9</sup> combined with the earlier measurements of Shmidt and Sokolov? and reported C., values extending from 298.5-503.1 K. We have smoothed been smoothly extrapolated to 1000 K. We have given no weight to the calorimetry enthalpy differences measured by Coughlin, May," and <sup>3</sup> Iaw extrapolation.

### Fransition Data

Na<sub>2</sub>SO<sub>4</sub>(ct, V) is the stable low temperature modification of anhydrous sodium sulfate which is obtained by crystallization from aqueous solution above 305.65 K under ordinary pressure. The mineral is known as thenardite and exists in the form of orthorhombic crystals (space group Fddd). 15

studies by Shniidt and Sokolov<sup>3</sup> as well as the X-ray work of Sinanov and Kirkina<sup>15</sup> suggested another form, stable at high temperatures which is labeled as 8. Brodale and Giauque<sup>3</sup> have recently reviewed the relationships among the various crystalline forms of Na<sub>2</sub>SO<sub>4</sub>(cr). Their analysis shows that Na<sub>2</sub>SO<sub>4</sub>(cr, W) is the stable form from 0 to 458 K; Na<sub>2</sub>SO<sub>4</sub>(cr, IV) rather than Na<sub>2</sub>SO<sub>4</sub>(cr, II) is the stable form from 0 to 458 K; Na<sub>2</sub>SO<sub>4</sub>(cr, III) is metastable at all temperatures from 0 to 517 K. Na<sub>2</sub>SO<sub>4</sub>(cr, II) is a meta stable phase intermediate between forms III and I. The phase transitions are sluggish and subject to hysteresis. Forms Polymorphism studies by Kracek<sup>14</sup> indicated five distinct modifications of anhydrous sodium sulfate, i.e., V, IV, III, II, L Calorimetric V, IV and III can all persist far beyond their stable regions.

The heat of transition  $\Delta_{u,H}^{o}(V \to IV, 458 \text{ K}) = 61 \pm 15 \text{ cal-mol}^{-1}$  is discussed on the table for Na<sub>2</sub>SO<sub>4</sub>(cr, IV). The temperature of the transition is taken from the work of Kracek<sup>14</sup> and Brodale and Giauque.<sup>3</sup> The heat of transition from metastable Na<sub>2</sub>SO<sub>4</sub>(cr, V) to metastable Na<sub>2</sub>SO<sub>4</sub>(cr, III)  $\Delta_{u,H}^{o}(V \to III, 517 \text{ K}) = 1041 \pm 20 \text{ cal-mol}^{-1}$  has been discussed on the table for Na<sub>2</sub>SO<sub>4</sub>(cr, III).<sup>3</sup> This compares to  $\Delta_{co}H^{\circ}(V \to III, 521 \text{ K}) = 1030 \pm 25 \text{ cal mol}^{-1} \text{ from Shmidt and Sokolov}^{3}$  and  $\Delta_{co}H^{\circ}(V \to III, 514 \text{ K}) = 1040 \pm 20 \text{ cal-mol}^{-1} \text{ from.}^{3}$  The heat of transition from metastable Na<sub>2</sub>SO<sub>4</sub>(cr, V) to metastable Na<sub>2</sub>SO<sub>4</sub>(cr, I) at 512 ± 1 K is obtained by summation of  $\Delta_{co}H^{\circ}(V \to III) = 1021$ cal·mol<sup>-1</sup> and  $\Delta_{m}H^{\circ}(III \rightarrow I) = 1642$  cal·mol<sup>-1</sup> to yield  $\Delta_{m}H^{\circ}(V \rightarrow I, 512 \text{ K}) = 2663 \pm 25 \text{ cal·mol}^{-1}$ , in good agreement with the value measured by Shmidt and Sokolov, AnH'(V → I, 521 K) = 2673 ± 5 cal-mol-1. Brodale and Giauque 5 give AnH'(V → I, 512 K) =  $2681 \pm 20 \text{ cal·mol}^{-1}$ .

### **References**

<sup>1</sup>F. L. E. Shibata, S. Oda, and Furukawa, J. Sci. Hiroshima Univ. (Japan) 3A, 227 (1933).
<sup>2</sup>ICSU CODATA Task Group on Key Values for Thermodynamics, CODATA Bulletin No. 28, (April 1978).

JANAF Thermochemical Tables: Na(ref st), 6-30-62; O<sub>2</sub>(ref st), 3-31-77, S(ref st), 9-30-77; Na<sub>2</sub>SO<sub>4</sub>(cr, IV), Na<sub>2</sub>SO<sub>4</sub>(cr, III), N

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Pitzer and L. V. Coulter, J. Amer. Chem. Soc. 60, 1310 (1938).

Continued on page 1673

Sodium Sulfate, V (Na<sub>2</sub>SO<sub>4</sub>)

PREVIOUS: December 1966

J. Phys. Chem. Ref. Data, Monograph 9

Na<sub>2</sub>O<sub>4</sub>S<sub>1</sub>(I)

M<sub>r</sub> = 142.03714 Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>)

CURRENT: June 1978

# Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>)

LIQUID

S°(298.15 K) = [181.172] J·K<sup>-1</sup>·mol<sup>-1</sup> T<sub>las</sub>(1 → 1) = 1157 ± 1 K 7cm = 2500 K

Enthalpy of Formation

Heat Capacity and Entropy

The enthalpies for Na<sub>3</sub>SO<sub>4</sub>(I) have been measured by drop calorimetry in the temperature range 1164.7–1826.2 K by Coughlin', 1173.3–1502.6 K by Denielou,2 1157–1500 K by May<sup>3</sup> and 1173.4–1290.2 K by Popov and Ginzburg,4 The more recent studies<sup>1,2</sup> are in very good agreement. The study of May<sup>3</sup> appears biased, being 1% low at 1200 K and 2% high at 1500 K. We have adopted heat capacities derived from the enthalpy data of Coughlin' over the range 1157–1800 K. The data have been extended to 800 K and 3000 K. Below an assumed glass transition temperature of 800 K, the heat capacities are taken to be identical to those of the I phase. The entropy at 298.15 K is calculated ΔH°(I, 298.15 K) is calculated from ΔH°(Na<sub>3</sub>SO<sub>4</sub>, cr, I, 298.15 K) by adding Δ<sub>In</sub>H° and the difference in enthalpy, H°(1157 K)-H°(298.15 K), between Na<sub>3</sub>SO<sub>4</sub>(cr, I) and Na<sub>3</sub>SO<sub>4</sub>(I).<sup>2</sup> in a manner analogous to that used for the enthalpy of formation.

### Fusion Data

The enthalpy of melting of Na<sub>2</sub>SO<sub>4</sub>(cr, I)  $\rightarrow$  Na<sub>2</sub>SO<sub>4</sub>(I) has been discussed in the Na<sub>2</sub>SO<sub>4</sub>(cr, I) table.<sup>3</sup> Kelley<sup>6</sup> had previously reported  $\Delta_{ha}H^{o}(1157 \, \text{K}) = 5.83$  kcal·mol<sup>-1</sup> from data on binary systems. We prefer the results from direct calonimetric measurements.

vapor, significant decomposition can occur according to Na<sub>3</sub>SO<sub>4</sub>(I) + H<sub>2</sub>O(g) = 2 NaOH(g) + SO<sub>2</sub>(g) + I/2 O<sub>2</sub>(g). <sup>10</sup> Molecular vaporization data are discussed in the Na<sub>3</sub>SO<sub>4</sub>(g) table. <sup>2</sup>  $T_{\infty}$  = 2500 K is the calculated temperature at which the Gibbs energy difference is zero for the dat 148 are in good agreement with dissociation pressures and the heat of reaction calculated from the JANAF Thermochemical Tables. Decomposition to the oxides of sodium produces lower decomposition pressures than decomposition to the metal. In the presence of water Vaporization data on Na<sub>2</sub>SO<sub>4</sub>(I) is discordant due primarily to the extent to which the vapor is dissociated. Na<sub>2</sub>SO<sub>4</sub>(I) can decompose according to various mechanisms, the most significant of which is the reaction Na<sub>2</sub>SO<sub>4</sub>(1) = 2 Na(g) + SO<sub>2</sub>(g) + O<sub>2</sub>(g). Recent experimental reaction Na<sub>2</sub>SO<sub>4</sub>(I) = 2 Na(g) + SO<sub>2</sub>(g) + O<sub>2</sub>(g). Vaporization and Decomposition Data

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<sup>3</sup>M. N. May, TAPPI 35, 511 (1952).

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JANAF Thermochemical Tables: Na<sub>2</sub>SO<sub>4</sub>(cr, I), Na<sub>2</sub>SO<sub>4</sub>(cr, 8), Na<sub>2</sub>SO<sub>4</sub>(g), 6-30-78.

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Δ <sub>1</sub> H°(298.15 K) = [-1356.385] kJ·mol <sup>-1</sup>	Enthalpy R	elerence To	emperature	Enthalpy Reference Temperature = T, = 298.15 K	٠	Standard Sta	Standard State Pressure = $p^{\circ}$ = 0.1 MPa	, - 0.1 MPa
$\Delta_{\text{fra}}H \cdot (1 \to 1) = 238.49 \pm 0.42 \text{ KJ-mol}$	7.1	ដូ	)- S -(G	S -[G-H'(T,)]/T	H*-H*(T.)	Tom-D.	QQ	log K,
the difference in embalny H'11157 KL	°88							· 1
	298.15	159.620	181.172	181.172	ó	-1356.385	-1247.832	218.615
	300	159 724	182.160	181.175	0.295	-1356.345	-1247.159	217.150
CELL 1-11-10 - 4 7 C 2001 F 8311	<del>8</del> 8	164.758	228.794 266.128	187.500	16.518 33.258	-1361.905	-1210.568	158.084
e 1104./-1820.2 K by Cougnim, 11/3.3-	88	175.331	297.589	213.385	50.522	-1360.085	-1135.179	98.826
is nivic recent studies are in very good that have adopted heat capacities derived from	8 8	181.042	325.038	227.415	68.337	-1358.031	-1097,848	81.922
0 K and 3000 K. Below an assumed glass	800.000	187.276	349.614	241.179	86 748	GLA	GLASS <> LIQUID	
ase. The entropy at 298.15 K is calculated	900.000	550.761	349.014	741 113	80.748		IKANSIIION	
	88	197,033 197,033	372.822 393.581	254.542 267.426	106.451 126.155	-1404.461 -1399.313	-1023.207 -981.123	59.385 51.249
	0011	197.033	412,360	279.762	145.858	-1394.316	-939.547	44.615
Drable 5 Wallaws had menicurali managed	1157 000	197.033	422.314	286.541	157.089	->1	> LIQUID	1
i) date. Netter that previously reported	1200	197.033	429,504	291.537	165.561	-1583.018	-893.538	38.895
t calonmetric measurements.	1300	197.033	445.275	302.764	185.265	-1576.541	-836.345	33.605
	1400	197 033	459.877	313 471	204 968	-1570.140	-779.647	29.089
	300	197.033	4/3.4/1	323 690	224.671	-1563.809	-723.405	25.191
is dissociated. Na <sub>2</sub> SO <sub>4</sub> (1) can decompose	89	197 033	486.187	333.453	244.374	-1557.546	-667.583	21 794
(g) + SO <sub>2</sub> (g) + O <sub>2</sub> (g). Recent experimental	38	550.751	498.132	342.192	264078	-1551.347	-612.150	18.809
om the JANAF Thermochemical Tables	26	197.033	520.047	360319	103.684	1530 134	- 507.082	13.811
tion to the metal. In the presence of water	2000	197.033	530,154	368.560	323 188	-1533.117	-447.939	11.699
H(g) + 1/2 O.(g) 10 Molecular vanorization	2100	197,033	539.767	376.486	342.891	-1527.159	-393.827	9.796
to Gibbs enemy difference is zero for the	2200	197.033	548.933	384.118	362.594	-1521.259	-339.997	8 073
are Group energy unreferred to zero rot ure	2300	197.033	557.692	391 475	382.298	-1515.418	-286.435	6.505
	2400	197.033	566.077	398.577	402.001	-1509.635	-233.125	5.074
	2500	197.033	574 120	405.439	421.704	-1503.912	- 180.055	3.762
	2600	197.033	581.848	412.076	441 407	-1498.246	-127.213	2.556
	2700	197.033	589.284	418.503	461.111	-1492.640	-74587	1.443
(0)01	2800	197.033	596 450	424.731	480.814	-1487.093	-22.168	0.414
(1909).	2300	197,033	603.364	430.772	500517	-1481.607	30.053	-0.541
	3	660.161	010.044	450.057	177'076	-14/0.163	42.U8/	-1.429

Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>)

PREVIOUS December 1966

(Na,SO2)
Sulfate
Sodium

M <sub>r</sub> = 142.03714 Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )	Sodium S	ulfate (N	la <sub>2</sub> SO <sub>4</sub> )				Na	Na <sub>2</sub> O <sub>4</sub> S <sub>1</sub> (cr,I)
	Enthalpy Re	eference Te	mperature	Enthalpy Reference Temperature = $T_r = 298.15 \text{ K}$ $1.8^{-1}\text{mod}^{-1}$		Standard State Pressure		p* = 0.1 MPa
	7.K	ಟ	S -[G	-[G*-H*(T,)]/T	H*H*(T,)	ı	<b>₽</b> C•	log K,
	-88	0. 66.542 105.663	43.120	147.007 247.007	-23.217 -20.389	-1376.361 -1382.711	-1376.361 -1346.347	103.259
	298.15	128.143	149.595	149.595	0	-1387.816	-1269.849	222.42
	88	128.495 145.101	150,388	149.597 154.845	0237 13.943	-1387.834	-1269.117 -1228.937	220.973 160.483
	458.000	153,331	209.905	160.555	22.602		V <> IV TRANSITION	
	8	158.908	224.159	165.328	29.415	-1396.687	-1187.082	124.014
	514,000	160.712	228.572 249.793	166.990	31.653		IV <> I	
	88		276.549	180.817	57.439		-1147.069	99.861
	888	187.276	328.577	211.494	93.666	-1379.835	-1068.539	69.768 59.707
	00 5	200.309	371.773	239,342	132.431	-1424.467	-984.470	51.423
	1157,000		401.702	259.376	164.671	<b>-</b>	VP	
	1200		429.504	265.344	196.992		-893,538	
	88	197.033 197.033	445275	278.586 291.021	236.399	-1576.541 -1570.140	-779.647	29.089
	0051	197.033	473.471	302.736	256.102	-1563.809	-723.405	25.191
	382	197,033	498.132	324.303	295.509	-1551.347	-612.150	18.809
	00 00 00	197,033	509.394 520.047	334.276 343.776	315.212	-1545.210	-557.081 -502.351	16.166
	2000	197.033	530.154	352.844	354.619	-1533.117	-447.939	11.699
	2100	197,033	539.767	361.518	394.025	-1527.159	-339.997	8.0736 8.073
	88	197.033	557.692	377.809	413.729	-1515.418	-286.435	25.5
	250	197,033	574.120	392.866	453.135	-1503.912	-180.055	3.762
	280	197,033	581.848	399.987	472.839	-1498.246	-127.213	2.556
	280	197,033	596.450	413,505	512245	-1487.093	-22.168	0.414
	300	197,033 197,033	603.364 610.044	419.934 426.160	531.948 551.652	-1481.607 -1476.185	30.053 82.087	-0.541
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	PREVIOUS:						CURR	CURRENT: June 1978

Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>)

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Refer to the individual tables for details.

Na<sub>2</sub>O<sub>4</sub>S<sub>1</sub>(g)

Standard State Pressure =  $p^* = 0.1 \text{ MPs}$ 

K-mol-

170.721 169.605 143.875 124.485 109.323 97.171

-974.094 -964.041 -953.279 -941.817 -930.140

-1033.675 -1035.199 -1044.097

346.856 348.176 351.201 355.226 359.845

347.509 364.451 380.092 394.591 408.078 346.854

-974.461

-1033.615

346.854

0. 58.797 85.280 96.480 105.619 105.940 113.834 120.370 130.203

-1020.106 -1024.770 -1029.920 -1031.953

0. 259.777 308.790 329.057

-9.423

78.905 65.831 56.010 48.301 41.872

-832.215

-1107.749 -1107.178 -1298.469 -1296.473 -1294.484

-771.044 -735.618 -688.628 -641.792 -595.099

428.911 437.420 445.553 453.332

520211 533.367 545.549 556.885 567.483

150.641 151.741 152.614 153.319 153.895

420.005

432.449 453.929 473.068 490.289 505.918

136,924 141,606 144,949 147,397 149,234

-548.538 -502.099 -455.776 -409.558 -363.439

-1290.557 -1288.629 -1286.731 -1284.865

460.781 467.921 474.774 481.359 487.695 493.798 499.683 505.366 510.858

577.431 586.802 595.658 604.052 612.029

154.769 155.106 155.392 155.638 154371

619.628 626.883 633.822 640.473 646.858

155.851 156.036 156.198 156.340 156.467

3.6614 21.768 21

-1274.513 -1272.947 -1271.431 -1269.968 -1268.560

652.997 658.908 664.608 670.111 675.429

156.579 156.679 156.769 156.849 156.922

138.938 184.273 229.573 274.837 320.066 365.265 410.435 455.583 590.708 545.811

221.316 25.303 231.14 240.404 240.404 240.404 257.37 261.37 261.46 261.4

704.070 708.379 712.574 716.661 720.645

157.241 157.280 157.316 157.349 157.380

-1261,377 -1260,416 -1259,533 -1258,729

-1257.383

-1267.208 -1265.915 -1264.681 -1263.512 -1263.512

680,576 685,561 690,394 695,085 699,641

156.988 157.049 157.103 157.153 157.153

-317.413 -271.472 -225.613 -179.830 -134.116 -88.467

-1283.036 -1281.245 -1279.496 -1277.789 -1277.189

110227 145.348 145.348 1157.227 1157.227 1157.227 1157.278 127.578 127.578 111.078 111

CURRENT: June 1978 (1 bar)

-9.268 -9.571 -9.862 -10.141

656.733 672.486 688.242 703.999 719.757

599.883 602.957 605.972 608.932 611.837

742.651 746.039 749.356 752.605

590.899 635.972 681.034 726.079 771.121

577.998 593.741 609.485 625.232 640.982

724531 728,325 732,030 735,650

157.488 157.435 157.435 157.435 157.534 157.545 157.545 157.545 157.545 157.545 157.545 157.545

-10.666 -10.914 -11.382 -11,817

1041.384

-1258231 -1259203 -1260343

614.691 617.494 620.248 622.955 625.618

157.608 157.621 157.635 157.647 157.659

758.910 761.970 764.973 767.919 770.812 -1261.658 -1263.155 -1264.839 -1266.717 -1268.480

814.337 830.105 845.873 861.643 877.413

157.670 157.680 157.690 157.700 157.700

(Na <sub>2</sub> SO <sub>4</sub> )	
Sulfate	
Sodium	

IDEAL GAS

ΔH'(0 K) = -1020.106 ± 25.1 kJ·mol-' Enthalpy Reference Temperature = T, = 298.15 K	J·K-¹mol-¹	$TK C_r^* S^* - [G^* - H^*(T_r)] H^* - H^*(T_r)$
$\Delta_{H}^{2}(0 \text{ K}) = [346.854 \pm 16.7] \text{ J·K}^{-1} \cdot \text{mol}^{-1}$	Art (298.15 K) = -1033,615 ± 25.1 kJ·mol <sup>-1</sup>	

M<sub>r</sub> = 142.03714 Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>)

16.7] J·K <sup>-1</sup> ·mol <sup>-1</sup>	<del>-</del>		Δ <sub>t</sub> H°(298.1	Δη' (298.15 K) = -1020.106 ± 25.1 KJ·m Δηθ' (298.15 K) = -1033.615 ± 25.1 KJ·m
	Vibrational Frequ	Vibrational Frequencies, Symmetries and Degeneracies $\nu$ , cm <sup>-1</sup> $\nu$ , cm <sup>-1</sup>	and Degeneracies	
	A <sub>1</sub> %1 (1) (510](1) [160](1) [391](1)	B <sub>1</sub> [460] (1) B <sub>2</sub> 1131 (1) 640 (1) [81](2)	E 1101 (2) 610 (2) [333](2)	
Ground State Quan Point Group: [D <sub>2d</sub> ] Bond Distances: S-	Ground State Quantum Weight: [1] Point Group: [D <sub>2d</sub> ] Bond Distances: S-O = [1.48] Å N	Ground State Quantum Weight: [1] Point Group: [D <sub>2d</sub> ] Bond Distances: S-O = [1.48] Å Na-O = [2.21] Å	••	σ = [4]
Bond Angle: Product of th	s. O-S-O = [109].	Bond Angles: O-S-O = [109.47]* O-Na-O = [66.205]* Product of the Moments of Inertiz: $I_AI_BC = [7.9153 \times 10^{-11}]$ g³-cm <sup>8</sup>	6.205f 3 × 10 <sup>-113</sup> J g³·cm <sup>6</sup>	

### Enthalpy of Formation

The adopted value of the enthalpy of formation,  $\Delta_f H^{\circ}(Na_5SO_4, g, 298.15 \text{ K}) = -247.04 \pm 6.0 \text{ kcal·mol}^{-1}$ , is based on JANAF analyses of study of Cubicciotti and Keneshal or in the presence of air (O<sub>2</sub>) as in the study of Fryxell et al. We have "corrected" some of the original data by subtracting the calculated dissociation pressures <sup>15</sup> from the total pressure to give molecular vaporization pressures. These "corrected data sets" are explicitly noted. Mass spectrometric experiments <sup>2,3,2,4,4,4</sup> can lead to direct molecular vaporization data provided the Na,SO4 ion is directly measured. Results from the Knudsen effusion experiments 14 are in reasonable agreement with the most reliable transpiration experiments. The calculated 3rd law A,H'(298.15 K) may have an uncertainty of 4 kcal-mol<sup>-1</sup> since the JANAF free energy functions are partially based on the estimated molecular constants of Na,SO4(g). Vapor pressures from 4 and 5 are in general agreement. Our adopted heat of formation is based on a weighted average of the 2nd or 3rd law results from 1.4 3 th the vaporization data given below. Early studies of the vaporization of sodium sulfate failed to take dissociation into account. The many of the effusion and transpiration results in the literature are in error. The dissociation is retarded in the presence of SOs, Os mixtures as in the

Source	Method	Reaction*	7/K	Points	83° cal·K <sup>-1</sup> ·mol <sup>-1</sup>	Δ <sub>r</sub> H°(298.15 F 2nd law	14H°(298.15 K), kcal·mol-1	Δ,H°(298.15 K)
2	Tenenismine (At)			Ì			100	KCZI-MOI
-	(V) unanpuration	∢	1400-1624	<b>∞</b>	9.24 ± 2.8	00 36 + 42	26 21 4 20	, , , , , , ,
	Transpiration (SO, + O.)	<	1305-1663	2	C . + 03 V	7.5	10.51 = 2.0	-741.86 ± 6
4	Tenenimies (ci.)			71	4.09 ± 1.2	84.26 ± 1.8	7.06 ± 1.1	-747 11 + A
•	i i anspiration (all)	∢	1283-1477	20	0 23 + 1 1	70 41 4 1 5	00.00	
•	Transpiration (air)	٧	1730 1777	1 :		C1 = 1C0/	48.20 ± 0.5	$-245.97 \pm 4$
=	T	¢	1751-1611	<u>e</u>	3.70 ± 1.1	83.18 ± 1.5	78.05 + 0.6	-746 12 + 3
:	remspiration (SO <sub>2</sub> + O <sub>2</sub> )	<	1289-1412	×	71+095	0.000	0.0	5 - 71.047
8	Transmiration (N.)	•		,	+:	81.39 ± 1.8	73.81 ± 0.6	-250.36 + 6
	Chi international	<	1301-1426	4	173+25	08 72 + 2 5	00 + 30 36	
•	Knudsen mass snec	٧	1180 1270	•		70.10	0.2 ± cu.c	$-249.12 \pm 6$
•	Anda	•	2001	7		$75.76 \pm 4.0$		- 340 41 + 1
	Anudsen mass spec	<	196-1340	9	00 + 00			4 1 14.047
=	Vandan	: :		•	1.09 ± 0.9	/8.36 ± 0.9	78.76 ± 0.4	-245 41 + 2
:	Minuscii mass spec	A.B	1069-1281	٠	İ	100 + 001	;	7 - 11:01-7
=	Knudeen mass smee			٠,		14.93 ± 2.5	1	$-249.24 \pm 4$
	Tode comit manning	₹	145-1545			77.41 + 40		
						7		$-246.76 \pm 4$

A) Na<sub>2</sub>SO<sub>4</sub>(I) = Na<sub>2</sub>SO<sub>4</sub>(g) B) Na<sub>2</sub>SO<sub>4</sub>(cr) = Na<sub>2</sub>SO<sub>4</sub>(g) data corrected for dissociation.

# Heat Capacity and Entropy

The adopted structure (D22 symmetry) is based on the similar symmetry assigned to Cs<sub>2</sub>SO<sub>4</sub>(g) and to K<sub>2</sub>SO<sub>4</sub>(g) in the high temperature electron diffraction studies of Ugarov et al. and Spiridonov and Lutoshkin. This symmetry is supported by the IR and Raman study of Atkins and Gingerich\* on Na<sub>2</sub>SO<sub>4</sub> and K<sub>2</sub>SO<sub>4</sub>. The molecule can be pictured as having a central sulfur atom surrounded at the comers of a tetrahedron by four oxygen atoms with bridging sodium atoms between two pairs of oxygens. The internuclear distance of 1 48 Å for S-O is taken from data on other sulphates. While Na-O = 2.21 Å is an estimate from. The principal moments of inertia are I<sub>A</sub> = 15.518 × 10<sup>-39</sup> and

taken from Gurvich et al. <sup>10</sup> The four fundamentals involving the metal atoms are based on the Raman single-crystal study of Montero<sup>11</sup> and comparisons involving K<sub>2</sub>SO<sub>4</sub>, C<sub>3</sub>SO<sub>4</sub>, D<sub>4</sub> LiO<sub>2</sub> and NaO<sub>2</sub>, <sup>11</sup> Uncertainties in the estimates of the gas phase frequencies may contribute an uncertainty of 4 cai-K<sup>-1</sup>-mol<sup>-1</sup> to S°(298.15 K). Atkins and Gingerich have observed the infrared and Raman spectra of Na<sub>2</sub>SO<sub>4</sub> and K<sub>2</sub>SO<sub>4</sub> isolated in oxygen and nitrogen matrices at 12 K. Five of the eleven fundamental frequencies were observed in this work. The two other sulphate-ion group fundamentals are estimates

# Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>)

PREVIOUS June 1978 (1 atm)

# Continued on page 1673

5 (298.1

CURRENT: June 1967

PREVIOUS:

.mol-1 Enthalov Reference Te
AH"(0 K) = -1534 79 + 84 kl·mol-1 Enthalpy Reference Te

Va2O4W1(cr)

in Oxide (Na<sub>2</sub>WO<sub>4</sub>)

 $\Delta_f H'(298.15 \text{ K}) = -1554.73 \pm 6.4 \text{ M}^{-1100}$   $\Delta_f H'(298.15 \text{ K}) = -1544.73 \pm 8.4 \text{ KJ} \cdot \text{mol}^{-1}$ \Langle H° = 4.113 kJ·mol<sup>-1</sup> Δ<sub>tr2</sub>H° = 30.849 kJ·mol<sup>-1</sup> Δ<sub>fu</sub>H° = 23.799 kJ·mol<sup>-1</sup> S°(298.15 K) = 160.331 ± 2.1 J·K<sup>-1</sup>·mol<sup>-1</sup> T<sub>m1</sub> = 862.0 K T<sub>m2</sub> = 860.8 K frs = 968.7 K

The adopted enthalpy of formation, ΔH\*(Na,WO4, cr, 298.15 K) = -369.2 kcal·mol<sup>-1</sup>, is calculated from ΔH\*(303.15 K) = 19.44 ± 0.08  $kcal - mol^{-1}$  for the reaction of  $H_2WO_4(cr) + 2 NaCl(cr) = Na_3WO_4(cr) + 2 HCl(aq, 12.731 H<sub>2</sub>O), using the JANAF value of <math>\Delta_H^a$ "(H<sub>2</sub>WO<sub>4</sub>, cr, 298.15 K) = -270.5 kcal-mol<sup>-1</sup> and  $\Delta_H^a$ "(NaCl, cr, 298.15 K) = -98.26 kcal-mol<sup>-1</sup>, and auxiliary data for HCl(aq).<sup>11</sup> The value of Δμθ(303.15 K) was determined by solution calorimetry by Koehler et al.<sup>1</sup> Enthalpy of Formation

Sherfey and Brenner<sup>2</sup> measured by electrochemical calorimetry the enthalpy of reaction  $\Delta_i H^2(298.15 \, \text{K}) = -7 \pm 1.5 \, \text{kcal·mol}^{-1} \text{for W(cr)} + 2 \, \text{NaOH(aq, 55.55 H<sub>2</sub>O)} + 2 \, H<sub>2</sub>O(1) = \text{Na<sub>2</sub>WO<sub>4</sub>(aq, <math>\infty$ ) + 3 H<sub>2</sub>(g). This value, combined with the heat of solution, <sup>1.3</sup>  $\Delta_{aa}H^{\alpha} = 1.7 \pm 0.1 \, \text{kcal·mol}^{-1} \text{ for Na<sub>2</sub>WO<sub>4</sub>(cr)} = \text{Na<sub>2</sub>WO<sub>4</sub>(aq, <math>\infty$ ), gives  $\Delta_i H^{\alpha}(298.15 \, \text{K}) \, (\text{Na<sub>2</sub>WO<sub>4</sub>, cr)} = -368.4 \, \text{kcal·mol}^{-1}$ , which is in good agreement with the value adopted.

The previously accepted value, <sup>13</sup>  $\Delta_t H^0(Na_2WO_t, cr, 298.15 \, K) = -379 \pm 0.5 \, kcal·mol<sup>-1</sup>, was based on the unreliable <math>\Delta_t H^0(H_2WO_t, cr, 298.15 \, K) = -280.2 \pm 0.4 \, kcal·mol<sup>-1</sup>. (See JANAF H<sub>2</sub>WO<sub>t</sub>, cr, table of March 31, 1967.) The other quoted value, <sup>4</sup> <math>\Delta_t H^0(Na_2WO_t, cr, 298.15 \, K) = -395 \, kcal·mol<sup>-1</sup>, was obtained from Mixter's measurement of the heat of reaction of tungsten powder with excess Na<sub>2</sub>O<sub>2</sub>. This$ value was probably in error because the complex tungstate and peroxytungstates were formed in the reaction.

## Heat Capacity and Entropy

Low temperature heat capacities (52-299.87 K) were measured calorimetrically by King and Weller. The heat capacities above 300 K are estimated by extrapolation of the low temperature heat capacity curve to  $C_p^*(860 \text{ K}) = 49.0 \text{ cal. K}^{-1} \text{ mol}^{-1}$ . The latter is obtained from an

estimate of C, equal to 7 cal·K<sup>-1</sup> g-atom at the first transition temperature.

The entropy, S°(298.15 K) = 38.32 ± 0.5 cal·K<sup>-1</sup> mol<sup>-1</sup>, is calculated from low temperature heat capacity data of King and Weller, based on an extrapolation of  $S^{\circ}(51 \text{ K}) = 2.77 \pm 0.5 \text{ cal·K}^{-1} \cdot \text{mol}^{-1}$ 

### Fransition Data

Transition temperatures and heats were obtained from differential heating and cooling curves both at atmospheric and higher pressures by

Goranson and Kracek, Existence of three phases is confirmed by the earlier birefringence studies of Boeke.

Riccardi and Sinistri<sup>10</sup> found only one transition at 864 K with A<sub>2</sub>-H\* = 8.23 kcal·mol<sup>-1</sup> by differential thermal analysis. This heat is

# apparently the sum of the two adopted heats of transition.

The adopted melting data were measured by the differential heating and cooling curve method by Goranson and Kracek. Riccardi and Sinistri tound the melting point at 971 K with Δ<sub>tas</sub>H° = 7.52 kcal·mol<sup>-1</sup> by differential thermal analysis.

### Fusion Data

References

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Standard State Pressure =  $p^* = 0.1$  MPa 94.933 80.564 69.513 60.834 53.763 47.687 42.108 37.356 250.493 248.824 181.536 141.079 NFINITE 786.143 383.284 log Kr 1 <--> 11 TRANSITION II <- -> III\_ TRANSITION\_ -1311.086 -1272.209 -1233.871 -1132.192 -1095.535 -1047.968 -1001.228 -955.325 -1429.073 -1390.158 -1350.438 -1197.704 -1534.786 -1505.022 -1467.547 -1429.786 -1544.732 -1549.553 -1548.233 -1545.854 -1542.521 -1538.287 -1485.393 -1671.275 -1660.975 -1649.746 -1637.590 -1498.203 -1534.786 -1541.060 -1544.082 -1544.733Li-mol- $\Delta_{cH}$  $H^{\bullet}-H^{\bullet}(T_t)$ -25.286 -22.419 -12.700 0259 15.087 31.242 141.606 163.026 48.529 66.877 86.248 98.524 129.372 129.618 133.731 185.463 208.923 233.417 258.946 285.505 o Femperature = T, = 298.15 K S -{G--H'(T,)}T INFINITE 267.673 172.462 190.355 203.961 217.541 225.682 225.682 225.891 225.891 232.631 265.304 280.211 294.362 307.866 320.811 160331 160,334 340.137 376.260 381.032 389.971 412.530 0. 43.482 108.962 160.331 161.197 203.750 239.748 271.237 299.500 325.351 433.907 454.314 473.913 492.828 511.147 69.860 117.244 140.122 155.335 167.360 178,238 188.698 205.101 205.226 205.224 209.200 219.242 229.492 239.743 250.120 260.454 270.705 139.775 ಟ 258.15 298.15 400 1000 11100 11300 ¥

81.811 73.025 65.524 59.050 53.407 48.420 43.858 39.792 36.147

-1635.911 -1575.859 -1511.349 -1477.414 -1384.022

-2587.389 -2677.658 -2667.257 -2656.916 -2646.633

554.115 571.871 588.612 604.447

292.880 292.880 292.880 292.880

-> LIQUID

-1977.854 -1930.674

-2454.208

263.107 278.337 285.393 293.251 307.750 321.788 335.351

444.375

469.859 493.302 \$15.007 535.213

292.880 292.880 292.880 292.880

146.869 147 497 153,354 182.642 96.408 211930

139.828

255.578 255.578 260.037

402.170

242.313 242.316

109.903 416.461

243.275 292.880 292.880 292.880 292.880

-2444821 -2629223

-1879 459 -1817.413 -1756.184 -1695.704

2597.620

Na<sub>2</sub>O<sub>5</sub>Si<sub>2</sub>(cr)

H.-H.L.

S -{G\*-H'(T,)}T

ž

404515 296.925 232.269 189.195 158.463 135.449 117.580

-2323.258 -2273.781 -2223.335 -2173.208 -2123.575 -2074.470

-2472.541

-2469 179 -2465 186 -2460.809

199.168 215.438 231.715 247.645

295.572 329.925 360.855 388.869

-2470.090 -2475.916 -2474.938

0291 97571 36762 57.843 I <--> II TRANSTHON II <--> III TRANSTHON

407.184

-2324.163

-2470.066

164.055 164 058 170 560 183.653

164.055 165.027 214.007 257.178

0. 66.906 124.081 156.984 157.494 183.401 203.246 217.576 227.840 235.162

Standard State Pressure =  $p^{\circ}$  = 0.1 MPa

Enthalpy Reference Temperature = T, = 298.15 K

.K-'mol-1

CURRENT: September 1967

 $\Delta_{\rm r}H^{\circ}(298.15 \text{ K}) = -2470.07 \pm 4.2 \text{ kJ} \cdot \text{mol}^{-1}$   $\Delta_{\rm ro}H^{\circ} = 0.418 \text{ kJ} \cdot \text{mol}^{-1}$  $\Delta_i H^0(0 \text{ K}) = -2455.46 \pm 4.2 \text{ kJ} \cdot \text{mol}^{-1}$  $S^{\circ}(298.15 \text{ K}) = 164.055 \pm 4.2 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$   $I_{\text{tr}}(B \to A\beta) = 951 \text{ K}$  $_{\rm rs}(A\beta \rightarrow A\alpha) = 980 \, {\rm K}$ The = 1147 K

CRYSTAL(B-Aβ-Aα)

Sodium Silicate (Na<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>)

 $\Delta_{ra}H^{\circ} = 0.628 \text{ kJ·mol}^{-1}$  $\Delta_{tas}H^{\circ} = 35.564 \text{ kJ·mol}^{-1}$ 

presumably employing auxiliary data from <sup>2</sup> We recalculate  $\Delta_{\rm eff} H^2$  of N2QCr) in the calorimetric solution as 87.30 (chlorine scheme, originally -89.19), using recent  $\Delta_{\rm eff} H^2$ (298.15 K) values<sup>[6,17]</sup> for NaCl(cr), HCl(aq), HSO(day), NasSO<sub>4</sub>(cr), and Na<sub>2</sub>O(cr). The corresponding enthalpy changes,  $\Delta_{\rm eff} H^2$ (298.15 K), for the reaction Na<sub>2</sub>O(cr) +2 SO<sub>4</sub>(cr) are derived as -54.65 and -55.98 kcal·mol<sup>-1</sup>. Adopting the weighted average  $\Delta_{\rm eff} H^2$ (298.15 K) = -55.06 kcal·mol<sup>-1</sup> with  $\Delta_{\rm eff} H^2$ (298.15 K) = -530.4 kcal·mol<sup>-1</sup>, we obtain  $\Delta_{\rm eff} H^2$ (298.15 K) = -590.36 kcal·mol<sup>-1</sup>, for Na<sub>2</sub>S<sub>1</sub>O<sub>3</sub>(cr). This  $\Delta_{\rm eff} H^2$ (Na<sub>3</sub>S<sub>1</sub>O<sub>3</sub>, cr) and  $\Delta_{\rm eff} H^2$ (Na<sub>3</sub>S<sub>1</sub>O<sub>3</sub>) for Na<sub>2</sub>O(cr), but the values of  $\Delta_{\rm eff} H^2$  are not independent. were measured by Kracek. The author derived two values of  $\Delta_{ab}H^o$  of Na<sub>2</sub>O(cr) from those of NaCl(cr), Na<sub>2</sub>SO<sub>4</sub>(cr), HCl(aq) and H<sub>2</sub>SO<sub>4</sub>(aq), The enthalpies of solution of NaCl(cr), Na<sub>2</sub>SO<sub>4</sub>(cr) SiO<sub>2</sub>(quartz), Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>(cr), HCl(aq) and H<sub>2</sub>SO<sub>4</sub>(aq), in 20% hydrofluoric acid at 74,7°C Enthalpy of Formation

Stevens et al. measured the enthalpies of solution of Na,Si,O<sub>3</sub>(cr), Na,O(cr) and SiO<sub>3</sub>(quantz) in HF(aq) at 25°C. Based on the reported results, the enthalpy change for the reaction Na<sub>2</sub>O(cr) + 2 SiO<sub>2</sub>(quartz) = Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>(cr) is calculated as -53 25 ± 0.32 kcal·mol<sup>-1</sup>, yielding

Hummel determined the enthalpies of solution of Na,Si,Os(cr), SiOs(quartz) and Na,CO3(cr) in 39% HF at 26.5°C. From the data reported we derive the enthalpy change to be 20.88 kcal·mol<sup>-1</sup> for the reaction Na<sub>2</sub>CO<sub>3</sub>(cr) + 2 SiO<sub>2</sub>(quartz) = Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>(cr) + CO<sub>2</sub>(g). Employing  $A_4H^9$ (298.15 K) = -270.26, -217.7 and -94.05 kcal·mol<sup>-1</sup> for Na<sub>2</sub>CO<sub>3</sub>(cr), SiO<sub>2</sub>(quartz) and CO<sub>2</sub>(g), respectively, we obtain  $A_4H^9$ (298.15 K) = -590.78 kcal·mol<sup>-1</sup> for Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>(cr) which is in good agreement with the adopted one. Δ<sub>t</sub>H°(Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>, cr, 298.15 K) = -588.55 kcal·mol<sup>-1</sup>

# Heat Capacity and Entropy

 $C_0^*$  of 70 cal  $K^{-1}$ -mol<sup>-1</sup> is derived from the enthalpies above 980 K; this value is extrapolated to 2000 K. The value of  $S^*(298.15 \text{ K})$  is calculated from the adopted low temperature heat capacities based on  $S^*(50 \text{ K}) = 2.945 \text{ cal } K^{-1} \text{mol}^{-1}$ . The entropy extrapolation derives from by Naylor. The derived high temperature heat capacities are joined smoothly with the low temperature ones at 298.15 K. An approximate The low temperature heat capacities, 54.3-294.7 K, have been measured by Kelley3 and the high temperature enthalpies, 376.8-1100.2 K, the Debye-Einstein extrapolation of Kelley<sup>3</sup> which yields a C<sup>o</sup>curve with an extra inflection in the region from 15 to 50 K. A more normal extrapolation would lead to a value of \$\(^{50}\) which is lower by 0.5 cal·K<sup>-1</sup>·mol<sup>-1</sup>

phase below 951 K is known as phase B, previously called  $\beta$ -Na<sub>5</sub>Si<sub>2</sub>O<sub>5</sub>. The  $\Delta_{\rm br}H^*$  values are derived from the enthalpy data of Naylor<sup>8</sup> using the adopted  $G_{\rm s}^*$  values. Three more rapid transitions have been reported at 822, 846 and 866 K<sup>110</sup> in E, previously called  $\gamma$ -Na<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>. Willgallis There are six slowly inverting polymorphous phases, <sup>1-2</sup> namely A, B, C, D, E and F, of which only the first two phases are stable. Two rapid transitions have been reported at 951 and 980 K. <sup>1, 10</sup> Phase A, which has two subphases, Aα and Aβ, is stable above 951 K. The stable and Range to have examined these transitions.

 $T_{ka}$  is obtained from Morey. 1 The selected value of  $\Delta_{lu}H^{\circ}$  is based on the following  $\Delta_{lu}H^{\circ}$  values derived from four different kinds of Fusion Data

measurements.

	Δ <sub>fra</sub> H°, kcal·mol <sup>-</sup> ·*	* lom-	
Source	298.15 K	1147 K	Method**
22	(151)	8.46	-
-	525	(6.20)	п
2	8.81	(9.76)	H
z	8.83	(9.78)	ш
2	(7.50)	8.45	2
<b>~</b>	8.09	(9.04)	ш

\* The numbers in parentheses are derived from the measured ones at the other listed temperatures. \*\*! = phase diagram, II = solution calorimetry, III = high temperature reaction calorimetry; and

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Sodium Silicate (Na<sub>2</sub>Sl<sub>2</sub>O<sub>5</sub>)

PREVIOUS, June 1965

dynamic-differential calorimetric method.

CURRENT September 1967

(Na <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> )	
Silicate	
Sodium	

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 $\Delta_r H^{\circ}(298.15 \text{ K}) = [-2438.485] \text{ kJ} \cdot \text{mol}^{-1}$ Δ<sub>0...</sub>H° = 35.564 kJ·mol<sup>-1</sup> S°(298.15 K) = [188.705] J·K<sup>-1</sup>·mol<sup>-1</sup> Fres = 1147 K

Enthalpy of Formation

between the crystal and liquid.

Sodium Silicate (Na<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>)

 $\Delta H^{*}(l, 298.15 \text{ K})$  is calculated from  $\Delta_l H^{*}(cr, 298.15 \text{ K})$  by adding  $\Delta_{lw} H^{*}$  and the difference in enthalpy,  $H^{*}(1147 \text{ K})-H^{*}(298.15 \text{ K})$ 

were measured by Kracek. Following the same procedure as described in the Na,Si,O<sub>3</sub>(cr) table, we derive the enthalpy changes, A.H°(298.15 K), for the reaction Na<sub>2</sub>O(cr) + 2 SiO<sub>2</sub>(quartz) = Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>(g, I) as -49.40 and -50.64 kcal·mol<sup>-1</sup> using the heats of solution of The enthalpies of solution of NaCl(cr), Na,SO<sub>4</sub>(cr), HCl(aq), H,SO<sub>4</sub>(aq), SiO<sub>2</sub>(quartz) and Na,Si<sub>2</sub>O<sub>5</sub>(g, 1) in 20% hydrofluoric acid at 74,7°C

Na<sub>2</sub>O(cr) as -87.50 (chloride scheme) and -83.74 kcal·mol<sup>-1</sup> (sulfate scheme), respectively. Adopting the weighted average A<sub>4</sub>H<sup>\*</sup>(298.15 K) = -49.81 kcal·mol<sup>-1</sup> with A<sub>4</sub>H<sup>\*</sup>(Na<sub>2</sub>O, cr, 298.15 K) = -99.9 kcal·mol<sup>-1</sup> and A<sub>4</sub>H<sup>\*</sup>(SiO<sub>2</sub>, quartz, 298.15 K) = -217.7 kcal·mol<sup>-1</sup>, we obtain A<sub>4</sub>H<sup>\*</sup>(298.15 K) = -585.113 kcal·mol<sup>-1</sup> for Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>G, l).

Using high temperature reaction calorimetry, Kroger<sup>2</sup> determined the enthalpy changes as 25.28 ± 0.22 and -18.58 ± 0.36 kcal·mol<sup>-1</sup> for reactions Na<sub>2</sub>CO<sub>3</sub>(cr) + 2 SiO<sub>4</sub>(quartz) = Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>G, l) + CO<sub>4</sub>G<sub>3</sub> and 2 NaOH(cr) + 2 SiO<sub>4</sub>(quartz) = Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>G, l) + CO<sub>4</sub>G<sub>3</sub> and 2 NaOH(cr) + 2 SiO<sub>4</sub>(quartz) = Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>G, l) + CO<sub>4</sub>G<sub>3</sub> and 2 NaOH(cr) + 2 SiO<sub>4</sub>(quartz) + 1.298.15 K) to be -586.32 and -589.46 kcal·mol<sup>-1</sup>, using A<sub>4</sub>H<sup>\*</sup>(298.15 K) = -270.26, -217.70, -94.05, -101.90 and -68.32 kcal·mol<sup>-1</sup> for Na<sub>2</sub>CO<sub>3</sub>(cr), SiO<sub>4</sub>(quartz, CO<sub>4</sub>G), NaOH(cr) and H<sub>2</sub>O(1), respectively. These two A<sub>4</sub>H<sup>\*</sup>(Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>, l, 298.15 K) values, as well as the value -585.113 kcal·mol<sup>-1</sup> based on Kracek's data, are not adopted, because incorporating these  $\Delta H^2(g_1, 1, 298.15 \, \text{K})$  values with the value of  $\Delta H^2(G_1, 298.15 \, \text{K})$ , gives values of the enthalpy of melting at 298.15 K which are too low in comparison with the other values (see the Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>, cr, table).

Hummel measured the enthalpies of solution of Na<sub>2</sub>CO<sub>3</sub>(cr), SiO<sub>2</sub>(quartz) and Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>(g. 1) in 39% hydrofluoric acid at 26.5°C, as -244.1, -564.5 and -673.7 cal·g<sup>-1</sup>, respectively. Based on these results, we derive the enthalpy change for the reaction Na<sub>2</sub>CO<sub>3</sub>(cr) + 2 SiO<sub>2</sub>(quartz) = Na<sub>3</sub>Si<sub>2</sub>O<sub>3</sub>(g. 1) + CO<sub>2</sub>(g) to be 29.01 kcal·mol<sup>-1</sup>, yielding  $\Delta_1H^0$ (Na<sub>2</sub>Si<sub>2</sub>O<sub>3</sub>, g. 1, 298.15 K) = -382.6 kcal·mol<sup>-1</sup> which is in good agreement with the adopted value.

# Heat Capacity and Entropy

on the liquid enthalpy data, we evaluate the heat capacity of Na<sub>3</sub>Si<sub>2</sub>O<sub>3</sub>(1) to be 62.43 cal·K<sup>-1</sup>·mol<sup>-1</sup>. The C<sup>o</sup> values below 1147 K are derived from the enthalpies measured at 445.5-1120.7 K by Naylor. Below 600 K,  $C_p^2$  is identical with that of the crystal. The adopted curve rises rapidly to a maximum in the glass transition region, 650-950 K, then smoothly approaches the value of the real liquid near  $T_{tm}$ . The heat Using drop calorimetry, Naylor\* has measured the enthalpies of Na,Si,O<sub>5</sub>(g, l), 445.5-1120.7 K, and Na,Si,O<sub>5</sub>(l), 1173.2-1744 K. Based

capacity of Na,Si,O<sub>5</sub>(I) is assumed to be constant in the temperature range 1147 to 2500 K. S°(1, 298.15 K) is calculated in a manner similar to that used for the enthalpy of formation.

### Fusion Data

Refer to the crystal table for details.

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 C. Kroger and W. Janetzko, Z. Anorg. Allg. Chem. 284, 84 (1956).
 C. Hummel and H. E. Schwiete, Glastech. Ber. 32, 327 (1959).
 B. F. Naylor, J. Amer. Chem. Soc. 67, 466 (1945).

Na<sub>2</sub>O<sub>5</sub>Sl<sub>2</sub>(cr,l)

CURRENT: September 1967

PREVIOUS.

Sodium Silicate (Na <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> )
M <sub>r</sub> = 182.14754
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Sodium Silicate (Na<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>)

10 951 K crystal, B 10 980 K crystal, Aβ 10 1147 K crystal, Aα 1147 K liquid	the individual tables for details.
951 980 above	Refer to the

C, N. BOL         CFT-F(T,) T         H*-HYT,           66,906         42,038         T754 T6 T6 T6         -12,736           115,6384         16,037         16,403         0.         17,432         -13,835           115,6384         16,037         16,403         0.         0.         0.           117,632         16,037         16,403         0.         0.         0.           117,632         16,037         16,038         0.         0.         0.           117,64         17,107         17,103         -13,895         17,178         -13,895           117,56         25,171         18,653         36,742         -13,895         17,178           24,213         29,517         18,1863         36,742         17,178         17,379           24,213         38,884         24,143         80,141         10,312         24,213           24,213         40,203         24,143         11,48         11,48         11,48           24,213         40,203         26,037         14,48         11,48         11,48           24,214         40,203         26,037         14,48         11,48         11,48           26,120         41,431         <	C;         F, IRO         H*-H*(Tr)         A.H**         A.G**           6,506         42.03         77.4(T·)         H*-H*(Tr)         A.H**         A.G**           6,506         42.03         77.4(T·)         -2453.49         -2453.49         -2451.83           155.984         16.055         177.45         -13.75         -2467.943         -2371.81           155.984         16.055         177.45         -13.89         -2467.943         -2371.81           20.346         21.718         181.63         0.0         -2470.006         -2371.81           20.346         21.717         181.63         3.645.9         -247.916         -2371.81           217.75         225.77         181.63         3.645.1         -247.916         -2271.31           217.75         225.78         193.43         -247.241         -217.32           243.13         225.78         193.43         -247.241         -217.32           243.13         225.78         193.49         -164.81         -217.32           243.21         247.21         10.31         -246.18         -217.32           243.21         247.21         10.31         -246.18         -217.32           243.21 <th>CG         N. TRING         L. H. Tring         L. H. Tring           CG         N. TRING         L. H. Tring         L. H. Tring           C6,806         40.08         Tring         L. H. Tring         L. H. Tring           124.081         107.50         Tring         L. 240.33         L. 240.33         L. 2418.59         L. 2418.59           154.084         160.085         160.085         160.085         160.089         L. 240.080         L. 2418.59           157.494         165.007         160.088         17.39         L. 240.090         L. 213.185           183.401         180.083         17.39         L. 240.308         L. 241.338         L. 213.185           217.576         225.77         180.188         0.291         L. 240.308         L. 241.338         L. 213.238           217.576         225.77         180.188         0.17.39         L. 240.338         L. 213.238           217.576         225.77         180.188         0.17.39         L. 240.338         L. 213.238           22.180         22.28         22.24.338         1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</th> <th>CG         N. TIMO         L. T. TIMO           CG         N. TIMO         L. T. TIMO         A.G*           CG         O         O. TIMO         A.H*         A.G*           C6,806         42038         177,472         2.485,439         2.245,549           15,4081         107.976         177,422         2.245,238         -2.248,549         1.2408           157,404         165.027         164.038         0.291         -2.470,000         -2.213,183           217,576         220,777         183.633         16.70         -2.471,343         -2.213,183           217,576         220,777         18.363         16.70         -2.471,343         -2.213,183           217,576         220,777         18.363         3.672         -2.473,343         -2.213,183           217,576         220,777         18.363         3.672         -2.473,343         -2.213,233           217,576         220,777         18.364         -2.443,334         -2.113,233           221,127         220,278         19.443         -2.443,334         -2.113,233           221,127         220,278         19.443         -2.444,21         -11.240           221,277         221,278         19.443</th> <th>CG         S         Tennol         Latenol           CG         S         -[CI-H(T)] T         H"-H(T)         Auf"         AG"           66,806         40.08         179,416         -13.78         -246,238         -248,54.9           12,081         107.96         177,422         -246,238         -248,54.9         -248,54.9           15,048         16,058         10.91         -240.066         -231,185         -248,18.9         -231,18.9           15,146         17,429         17,439         -247,066         -231,18.9         -231,18.9           20,146         27,731         183,633         17,37         -246,238         -231,13.8           21,156         27,57         19,188         80,141         -246,318         -221,13.8           23,115         27,57         19,188         80,141         -246,318         -271,213           23,115         27,57         19,188         80,141         -246,318         -271,213           23,115         27,23         13,143         -271,241         -271,241           23,117         27,23         11,17,203         -271,241         -271,241           23,117         27,23         11,17,203         -271,241         <th< th=""><th>CG S - CG - HT-TT, AH - HT-TT, AH - AG -</th><th>τÆ</th><th></th><th>emperature</th><th>Entitating Reference Temperature = 1, = 298,15 K</th><th>4</th><th>Standard Str</th><th>Standard State Pressure = p = 0.1 MPs</th><th> 0.1 MPa</th></th<></th>	CG         N. TRING         L. H. Tring         L. H. Tring           CG         N. TRING         L. H. Tring         L. H. Tring           C6,806         40.08         Tring         L. H. Tring         L. H. Tring           124.081         107.50         Tring         L. 240.33         L. 240.33         L. 2418.59         L. 2418.59           154.084         160.085         160.085         160.085         160.089         L. 240.080         L. 2418.59           157.494         165.007         160.088         17.39         L. 240.090         L. 213.185           183.401         180.083         17.39         L. 240.308         L. 241.338         L. 213.185           217.576         225.77         180.188         0.291         L. 240.308         L. 241.338         L. 213.238           217.576         225.77         180.188         0.17.39         L. 240.338         L. 213.238           217.576         225.77         180.188         0.17.39         L. 240.338         L. 213.238           22.180         22.28         22.24.338         1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	CG         N. TIMO         L. T. TIMO           CG         N. TIMO         L. T. TIMO         A.G*           CG         O         O. TIMO         A.H*         A.G*           C6,806         42038         177,472         2.485,439         2.245,549           15,4081         107.976         177,422         2.245,238         -2.248,549         1.2408           157,404         165.027         164.038         0.291         -2.470,000         -2.213,183           217,576         220,777         183.633         16.70         -2.471,343         -2.213,183           217,576         220,777         18.363         16.70         -2.471,343         -2.213,183           217,576         220,777         18.363         3.672         -2.473,343         -2.213,183           217,576         220,777         18.363         3.672         -2.473,343         -2.213,233           217,576         220,777         18.364         -2.443,334         -2.113,233           221,127         220,278         19.443         -2.443,334         -2.113,233           221,127         220,278         19.443         -2.444,21         -11.240           221,277         221,278         19.443	CG         S         Tennol         Latenol           CG         S         -[CI-H(T)] T         H"-H(T)         Auf"         AG"           66,806         40.08         179,416         -13.78         -246,238         -248,54.9           12,081         107.96         177,422         -246,238         -248,54.9         -248,54.9           15,048         16,058         10.91         -240.066         -231,185         -248,18.9         -231,18.9           15,146         17,429         17,439         -247,066         -231,18.9         -231,18.9           20,146         27,731         183,633         17,37         -246,238         -231,13.8           21,156         27,57         19,188         80,141         -246,318         -221,13.8           23,115         27,57         19,188         80,141         -246,318         -271,213           23,115         27,57         19,188         80,141         -246,318         -271,213           23,115         27,23         13,143         -271,241         -271,241           23,117         27,23         11,17,203         -271,241         -271,241           23,117         27,23         11,17,203         -271,241 <th< th=""><th>CG S - CG - HT-TT, AH - HT-TT, AH - AG -</th><th>τÆ</th><th></th><th>emperature</th><th>Entitating Reference Temperature = 1, = 298,15 K</th><th>4</th><th>Standard Str</th><th>Standard State Pressure = p = 0.1 MPs</th><th> 0.1 MPa</th></th<>	CG S - CG - HT-TT, AH - HT-TT, AH - AG -	τÆ		emperature	Entitating Reference Temperature = 1, = 298,15 K	4	Standard Str	Standard State Pressure = p = 0.1 MPs	0.1 MPa
6,906 4,2038 179,416 - 26,430 - 2455,459 - 2455,459 15,248,537 15,248,537 15,248,537 15,248,537 15,248,537 15,248,537 15,248,537 15,248,537 15,248,248 15,248,247 15,248,248 15,248,247 15,248,247 15,248,247 15,248,247 15,248,247 15,	0.         0.         DFINITE         -26,430         -2455,459         -2455,459         -2455,459         -2455,459         -2455,459         -2455,459         -2455,459         -2418,587         124081         110776         1174,22         -17136         -2470,294         -2471,851         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,587         -2418,537	0.         0.         DEFINITE         -26.430         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.241         -2416.857         -2455.241         -2416.857         -2455.241         -2416.857         -2455.241         -2416.857         -2455.241         -2476.949         -2475.441         -2475.441         -2475.441         -2475.241	6, 9, 0, DATINITE	66,906 42.03 173.41 - 26.430 - 2455.459 - 2455.459 1 15.634 146.055 177.45 - 13.89 - 2467.238 - 2415.851 15.634 146.055 177.45 - 13.89 - 2467.238 - 2415.851 15.634 146.055 146.058 17.39 - 2467.238 - 2415.138 17.30 17	0.         0.         DATINITE         -26.430         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.459         -2455.238         -2465.238         -2418.51         15.56         -245.238         -2418.53         -2448.73         -		ប	=	H'(T,)]T	H*-H*(T,)	٦	₽.Q.	log Kr
15.404   10.705   17.742   -1.375   -2.46.1233   -2.418.587   15.408   16.403   0.   -2.407.943   -2.418.587   15.408   16.403   0.   -2.407.943   -2.418.587   15.404   16.403   16.403   0.   -2.407.943   -2.471.831   15.404   16.403   16.403   0.   -2.40.090   -2.471.232   15.404   16.403   16.403   36.702   -2.470.990   -2.471.333   -2.471.348   -2.4	15.494   16.0076   17.742   -13.755   -246.1233   -2418.587   15.694   16.0076   17.402   -13.795   -246.1233   -2471.851   15.694   16.4025   16.4025   0   -2470.000   -2371.235   15.402   16.4025   16.4025   16.4025   0   -2470.000   -2371.235   15.402   16.402   17.379   -2475.916   -2771.235   -2771	15,404   10,005   17,046   -13,715   -246,1233   -2418,557   15,403   15,403   16,403   11,407   11,409   11,	15,404   1,005   1,0	15,000,   1,000,	15,404   10,006   1	0	ó	Ö	INFINITE	-26.430	-2455.459	-2455 450	INFINITE
15.054   164.03   164.03   0   -240.054   -1211.23     15.054   164.03   164.03   0   -240.054   -1211.23     15.104   164.03   164.03   0   -240.050   -2213.23     15.104   164.03   164.03   3.67.2   -247.030   -2213.23     20.124   23.025   21.13   3.67.2   -247.03   -217.23     22.184   23.025   21.143   3.67.4   -245.17   -217.23     24.31   4.02.17   245.18   -245.17   -245.18   -207.280     24.31   4.02.10   255.78   193.40   -246.030   -207.280     24.31   4.02.10   255.78   193.40   -246.030   -207.280     24.31   4.02.10   255.78   193.40   -246.030   -207.280     24.31   4.02.10   255.78   193.40   -246.030   -207.280     24.31   4.02.10   255.78   193.40   -246.030   -207.280     24.31   24.31   182.62   -244.81   -190.054     25.28   44.37   278.37   182.62   -244.81   -190.054     25.28   44.37   24.38   24.38   -26.287.81   -193.28     26.20   49.34   29.48   24.38   -246.18   -193.28     26.20   53.72   311.60   23.41   -258.0.48   -164.437     26.20   53.72   311.60   23.41   -258.0.48   -164.23     26.20   53.72   31.10   40.24   -26.28   -164.23     26.20   63.43   31.11   40.24   -26.28   -26.28   -164.23     26.20   63.42   31.12   40.24   -26.28   -26.28   -164.23     26.20   63.42   31.12   40.24   -26.28   -26.28   -164.23     26.20   63.42   31.12   40.24   -26.28   -26.28   -164.23     26.20   63.42   31.12   40.24   -26.28   -26.28   -164.23     26.20   63.42   31.12   40.24   -26.28   -164.23     26.20   63.42   41.46   53.28   -26.23   -164.23     26.20   63.42   41.46   53.24   -26.23   -164.23     26.20   63.42   41.46   53.24   -26.23   -164.23     26.20   63.42   41.46   53.24   -26.23   -164.23     26.20   63.42   41.46   53.24   -26.23   -164.23     26.20   63.42   41.46   53.24   -26.23   -164.23     26.20   63.42   41.46   53.24   -26.23   -164.23     26.20   63.42   41.46   53.24   -26.23   -164.23     26.20   63.42   41.46   53.24   -26.23   -16.23     26.20   63.42   41.46   53.24   -26.23   -16.23     26.20   63.42   41.46   53.24   -26.23   -16.23     26.20   63.42   4	15.494   164.035   164.035   02470.056 -2334.163   153.494   164.035   164.035   164.035   164.036   17379 -2475.916 -2273.218   183.401   185.603   164.038   173.79 -2475.916 -2273.218   183.401   184.007   185.603   36.702   -2470.090   -2373.218   183.401   184.603   36.702   -2470.090   -2373.218   183.401   247.118   235.72   193.418   247.244   -2173.205   237.134   237.22   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.243   237.244   237.243	15.494   164.035   164.035   02470.056 -2334.163     15.494   164.035   164.035   02470.056 -2332.183     15.494   164.035   164.035   02470.056 -2332.183     15.494   164.037   181.633   36.702   -2470.296 -2332.33     217.346   257.71   181.633   36.702   -2470.296 -2332.33     217.340   23.925   211.343   80.144   -2469.375 -2173.255     23.132   36.202   24.645   17.102   -2469.187   -2469.375     24.213   36.202   24.645   17.102   -2469.187   -2469.375     24.213   36.202   26.0037   16.489   -2469.375   -2469.375     24.213   36.202   26.0037   16.489   -2469.375   -2469.375     24.213   36.202   26.0037   16.489   -2469.375   -2469.375     25.228   44.375   25.339   25.343   19.409   -2469.375     26.207   35.304   24.482   -2469.375   -190.674     26.207   35.304   24.482   -2469.375   -190.674     26.207   35.304   24.482   -2469.375   -190.674     26.207   35.403   35.403   32.478   -2569.334   -1810.65     26.207   35.403   35.403   32.478   -2569.334   -1810.65     26.207   35.404   34.603   34.482   -2659.334   -1810.65     26.207   36.207   36.208   37.478   -2569.334   -166.206     26.207   36.204   34.603   34.603   32.478   -2566.374   -167.206     26.207   36.204   34.603   36.205   -266.375   -190.674     26.207   36.204   34.603   36.205   -266.375   -190.674     26.207   36.204   34.603   36.206   -190.206   -190.206     26.207   36.204   34.603   36.205   -266.375   -190.206     26.207   36.204   34.603   36.205   -266.375   -190.206     26.207   36.204   36.205   -266.375   -190.206   -190.206     26.207   36.204   36.205   -266.375   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206   -190.206   -190.206     26.207   36.206	15.7494   164.035   164.035   02470.050   -2371.035   15.7494   164.035   164.035   02470.050   -2371.035   15.7494   164.035	15.749   164.035   164.0	15.749   164.035   164.0	88	66,906	42.058	279.416	-23.736	-2463.238	-2418.587	1263.340
133.49 165.07 164.03 0.29 1.2470.09 1.212.23 183.40 1213.40 1214.07 170.56 17.37 1.2470.09 1.212.23 183.40 1213.40 17.37 1.2470.34 1.217.20 183.40 120.54 1.217.20 17.37 1.246.18 17.34 1.217.20 17.37 1.246.18 17.34 1.217.20 17.31	137.49   163.07   164.08   0.29   -2475.916   -2273.318   163.07   164.08   0.29   -2475.916   -2273.318   163.07   170.560   17379   -2475.916   -2273.318   173.75   173.78   -2475.916   -2273.318   -2273.318   -2273.318   -2273.318   -2273.318   -2273.31   -2273.318   -2273.31   -2	157.494   165.027   164.038   0.291   -2470.090   -2213.138   163.027   164.038   0.291   -2470.090   -2213.138   163.027   164.038   0.291   -2470.090   -2213.138   123.138   2213.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.138   2217.139   -2465.189   -2123.233   2217.138   2217.139   -2465.189   -2123.233   2217.139   -2465.189   -2123.233   2217.139   -2465.189   -2123.233   2217.139   -2465.189   -2123.233   221.231   221.238   221.238   221.238   221.239	157.494   165.007   165.008   17379	157.44   165.07   164.08   0.29   -270.09   -2273.38   188.40   165.07   164.08   0.29   -270.39   -2273.38   188.40   165.07   164.08   0.29   -270.39   -2273.38   188.40   -270.28   -271.39   183.40   183.40   -270.28   -271.39   -271.39   -271.39   183.40   -271.39   -27	157.44   165.07   164.08   0.29   -270.09   -2273.38   188.40   164.07   170.56   173.79   -2773.38   -2273.38   -2273.38   -2273.39   -2273.	2 5	156.984	164055	164.055	0 0	-2407.943	-2374 163	407 184
13.40	13.40   114.007   170.560   17379   2475.916   -2273.738   -2273	13.40   114.007   175.56   17379   245.516   -2273.78   17375   1737	103.40 114.007 117.550 11.379 -247.516 -227.3781 217.376 227.384 227.3	13.540   114.007   175.56   17379   17379   17379   17373	10.25	2	157.494	165.027	164.058		-2470.090	-2371.258	404.515
2115.76 2955.77 1991.08 578.43 -2472.441 -2172.08 235.162 235.162 235.173 1991.08 578.43 -2469.179 -2125.275 235.162 236.855 231.715 103.312 -2465.186 -7024.470 242.313 402.170 235.578 139.409 -2465.869 -2025.890 242.316 402.610 235.578 139.409 -2465.869 -2025.890 242.316 402.610 235.578 139.409 -2465.890 -2025.890 242.316 402.610 235.578 139.409 -2465.890 -2025.890 10.544 20.000 145.890 -2464.821 -190.0674 292.880 410.544 260.037 145.890 -2444.821 -1930.674 292.880 445.645 263.107 153.34 -2444.821 -1930.674 292.880 456.629 285.393 196.408 -2444.821 -1930.674 292.880 456.629 285.393 196.408 -2444.821 -1930.674 292.880 456.629 285.393 196.408 -2444.821 -1930.674 292.880 456.629 285.393 245.816 -2555.280 -1881.004 261.207 537.721 341.603 324.178 -2556.173 -1647.437 261.207 537.721 341.603 324.178 -2556.173 -1647.437 261.207 537.721 341.603 324.178 -2556.173 -1464.239 261.207 653.48 339.837 428.61 -2559.248 -2555.409 -2555.207 -1555.87 261.207 653.48 339.837 428.61 -2555.209 -2555.209 -1462.239 261.207 653.48 339.837 428.61 -2555.209 -2555.209 -1462.239 261.207 653.48 339.837 428.61 -2555.209 -2555.209 -1462.239 261.207 653.48 339.837 428.61 -2555.209 -2555.209 -1462.239 261.207 653.48 339.837 428.61 -2555.209 -2555.209 -1163.209 261.207 653.48 347.431 -2556.207 653.48 347.431 -2556.203 -1167.736 261.207 653.48 347.431 -2566.123 -1167.736 261.207 653.48 347.51 533.44 -2560.203 -1167.736 261.207 653.48 347.51 533.44 -2560.203 -1167.736 261.207 653.48 347.51 533.44 -2560.203 -1167.736 261.207 653.48 347.51 533.44 -2560.203 -1167.736 261.207 653.48 347.51 533.44 -2560.203 -1167.736 261.207 653.48 347.51 533.44 -2560.203 -1167.736 261.207 650.499 262.203 -2560.203 -1167.736 261.207 650.203 -1167.736 261.207 650.403 -1266.203 -1167.736 261.207 650.403 -1266.203 -1167.736 261.207 650.403 -1266.203 -1167.736 261.207 650.403 -1266.203 -1167.736 261.207 650.403 -1266.203 -1167.736 261.207 650.403 -1266.203 -1167.736 261.207 650.403 -1266.203 -1167.736 261.207 650.203 -1167.736 261.207 650.403 -1266.203 -1266.203 -1167.736	2115.76 2955.77 199.108 57.84 -2472.44 -2172.08 255.77 199.108 57.84 -2469.179 -2125.275 255.178 40 2929.23 131.548 60.141 -2469.179 -2125.275 255.102 240.325 217.102 -2465.186 -7024.40 -7024.40 -2025.890 242.316 402.610 235.578 139.409 -1465.890 -1025.890 402.610 235.578 139.409 -1465.890 -1025.890 14.640 25.57.78 139.409 -1465.890 -1025.890 14.641 25.340 14.641 263.107 14.680 -1465.800 -1465	2115.76 295.57. 199.108 578.43 -2472.441 -2173.208 205.55. 217.115 103.12 -2465.186 -7024.470 243.13 205.85. 217.115 103.12 -2465.186 -7024.470 243.13 205.85. 217.115 103.12 -2465.186 -7024.470 243.13 402.170 255.578 193.499 TRANSITION 225.880 40.544.2 200.037 14.6899 TRANSITION 225.880 410.544 200.037 14.6899 TRANSITION 225.880 410.544 200.037 14.6899 TRANSITION 225.880 416.441 25.2 200.037 14.6899 TRANSITION 225.880 44.375 278.337 182.642 -2444.211 193.05.7 205.20	211576 295577 199.108 57.84 -2472.44 -2172.08 225.162 235.162 235.173 199.108 57.84 -2469.179 -2125.275 235.162 235.162 235.173 199.108 57.84 -2465.186 -7024.40 24.213 40.2170 255.578 139.83 -2465.186 -7024.40 -7025.89 24.2136 40.260 255.778 139.83 -2465.186 -7024.40 -7025.89 24.2136 40.260 255.778 139.83 -146.89 -1025.89 11.40 -1025.	2115.76 295.57. 199.108 57.84 -2472.44 -2172.08 255.17. 255.17	225.162 295.572 199.168 578.43 -2472.441 -2173.208 205.55	22	183.401	214.007	170.560		-2475.916	-2273.781	296.925
217 840         375 92         215 438         80.141         -2465.176         -2125.575           243.116         360.355         21.715         103.17         -2465.186         -2074.470           243.13         402.17         255.78         139.409         1         1         -2465.889         -2023.890           243.215         402.17         139.409         1         1         -> II         - <t< td=""><td>217.840         129.92         215.438         80.141         -2465.179         -212.575           240.315         388.89         247.645         103.12         -2465.186         -2074.470           240.315         388.89         247.645         17.102         -2465.899         -2074.470           242.31         402.170         255.578         139.409         -14&gt; II         -RANSTITON           243.275         402.603         146.899         -7074.470         -7074.470           229.2880         410.544         260.037         147.897         -144.421         -193.6674           292.880         446.41         253.107         133.34         -244.421         -193.6674           201.70         487.635         285.393         196.408         -197.834         -244.421         -193.6674           201.70         487.635         285.393         196.408         -197.834         -193.6674           201.70         487.635         285.393         196.408         -193.6374         -183.847           201.207         487.531         287.831         -181.804         -1183.847         -183.847           201.207         487.718         278.44821         -193.6674         -1763.294      <t< td=""><td>217 840         3129 22         215,448         80,141         -2465,179         -2712,575           243.116         240,325         211,718         103,112         -2465,186         -2774,470           243.13         402,170         255,578         139,409         -14,600         -2074,470           243.13         402,170         255,578         139,409         -14,600         -2074,470           243.17         402,600         260.007         14,869         -14,400         -14,400           222.880         410,544         260.007         14,437         -14,400         -14,400           222.880         44,515         778.337         18,564         -14,400         -197,384           222.880         44,515         78,337         18,564         -190,674         -190,674           261.207         44,375         78,337         18,564         -190,674         -190,674           261.207         44,375         78,339         24,418         -110,01D         -164,437           261.207         45,478         25,420         31,141         -21,936         -164,437         -181,437           261.207         45,481         -24,481         -164,437         -164,437         -164,437<td>217.840 175.922 215.438 80.141 - 2465.189 - 2707.470 245.185 245.186 245.187 25.289 24.289 22.280 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 22.289 24.289 2</td><td>217 840         3129 22         211,513         80,141         -2465,179         -2712,573           243.11         240.315         388.899         247,647         120,312         -2465,186         -2074,470           243.13         402,170         255.578         139.409         16&gt; II        &gt; II           243.13         402,170         255.578         139.409         16&gt; II        &gt; II           243.17         402,030         260.037         14.589        </td><td>217.840 175.922 215.438 80.141 - 2465.189 - 2707.470 245.185 2</td><td>2</td><td>217.576</td><td>295 577</td><td>199.168</td><td></td><td>-2472 541</td><td>-2171308</td><td>180 105</td></td></t<></td></t<>	217.840         129.92         215.438         80.141         -2465.179         -212.575           240.315         388.89         247.645         103.12         -2465.186         -2074.470           240.315         388.89         247.645         17.102         -2465.899         -2074.470           242.31         402.170         255.578         139.409         -14> II         -RANSTITON           243.275         402.603         146.899         -7074.470         -7074.470           229.2880         410.544         260.037         147.897         -144.421         -193.6674           292.880         446.41         253.107         133.34         -244.421         -193.6674           201.70         487.635         285.393         196.408         -197.834         -244.421         -193.6674           201.70         487.635         285.393         196.408         -197.834         -193.6674           201.70         487.635         285.393         196.408         -193.6374         -183.847           201.207         487.531         287.831         -181.804         -1183.847         -183.847           201.207         487.718         278.44821         -193.6674         -1763.294 <t< td=""><td>217 840         3129 22         215,448         80,141         -2465,179         -2712,575           243.116         240,325         211,718         103,112         -2465,186         -2774,470           243.13         402,170         255,578         139,409         -14,600         -2074,470           243.13         402,170         255,578         139,409         -14,600         -2074,470           243.17         402,600         260.007         14,869         -14,400         -14,400           222.880         410,544         260.007         14,437         -14,400         -14,400           222.880         44,515         778.337         18,564         -14,400         -197,384           222.880         44,515         78,337         18,564         -190,674         -190,674           261.207         44,375         78,337         18,564         -190,674         -190,674           261.207         44,375         78,339         24,418         -110,01D         -164,437           261.207         45,478         25,420         31,141         -21,936         -164,437         -181,437           261.207         45,481         -24,481         -164,437         -164,437         -164,437<td>217.840 175.922 215.438 80.141 - 2465.189 - 2707.470 245.185 245.186 245.187 25.289 24.289 22.280 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 22.289 24.289 2</td><td>217 840         3129 22         211,513         80,141         -2465,179         -2712,573           243.11         240.315         388.899         247,647         120,312         -2465,186         -2074,470           243.13         402,170         255.578         139.409         16&gt; II        &gt; II           243.13         402,170         255.578         139.409         16&gt; II        &gt; II           243.17         402,030         260.037         14.589        </td><td>217.840 175.922 215.438 80.141 - 2465.189 - 2707.470 245.185 2</td><td>2</td><td>217.576</td><td>295 577</td><td>199.168</td><td></td><td>-2472 541</td><td>-2171308</td><td>180 105</td></td></t<>	217 840         3129 22         215,448         80,141         -2465,179         -2712,575           243.116         240,325         211,718         103,112         -2465,186         -2774,470           243.13         402,170         255,578         139,409         -14,600         -2074,470           243.13         402,170         255,578         139,409         -14,600         -2074,470           243.17         402,600         260.007         14,869         -14,400         -14,400           222.880         410,544         260.007         14,437         -14,400         -14,400           222.880         44,515         778.337         18,564         -14,400         -197,384           222.880         44,515         78,337         18,564         -190,674         -190,674           261.207         44,375         78,337         18,564         -190,674         -190,674           261.207         44,375         78,339         24,418         -110,01D         -164,437           261.207         45,478         25,420         31,141         -21,936         -164,437         -181,437           261.207         45,481         -24,481         -164,437         -164,437         -164,437 <td>217.840 175.922 215.438 80.141 - 2465.189 - 2707.470 245.185 245.186 245.187 25.289 24.289 22.280 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 22.289 24.289 2</td> <td>217 840         3129 22         211,513         80,141         -2465,179         -2712,573           243.11         240.315         388.899         247,647         120,312         -2465,186         -2074,470           243.13         402,170         255.578         139.409         16&gt; II        &gt; II           243.13         402,170         255.578         139.409         16&gt; II        &gt; II           243.17         402,030         260.037         14.589        </td> <td>217.840 175.922 215.438 80.141 - 2465.189 - 2707.470 245.185 2</td> <td>2</td> <td>217.576</td> <td>295 577</td> <td>199.168</td> <td></td> <td>-2472 541</td> <td>-2171308</td> <td>180 105</td>	217.840 175.922 215.438 80.141 - 2465.189 - 2707.470 245.185 245.186 245.187 25.289 24.289 22.280 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 24.289 22.289 24.289 2	217 840         3129 22         211,513         80,141         -2465,179         -2712,573           243.11         240.315         388.899         247,647         120,312         -2465,186         -2074,470           243.13         402,170         255.578         139.409         16> II        > II           243.13         402,170         255.578         139.409         16> II        > II           243.17         402,030         260.037         14.589	217.840 175.922 215.438 80.141 - 2465.189 - 2707.470 245.185 2	2	217.576	295 577	199.168		-2472 541	-2171308	180 105
23,162         360,855         221,715         100,312         -246,5186         -2024,890         -202,890 <t< td=""><td>243.162 360.855 221.715 101.312 -2465.186 -2074.70 242.315 402.170 255.78 139.409 -7025.890 242.316 402.160 255.578 139.409 -7025.890 242.316 402.160 255.578 139.409 -7025.890 242.880 410.544 260.037 14.6869 -107.834 222.880 410.544 260.037 14.6869 -107.834 222.880 444.375 278.337 182.642 -2444.821 -1930.674 222.880 445.629 285.339 196.408 -1977.834 261.207 499.434 294.588 245.816 -2295.338 -1881.064 261.207 539.700 326.802 285.339 116.408 261.207 537.721 341.603 324.178 -1273.236 -1755.024 261.207 577.721 341.603 374.178 -1273.236 -1755.024 261.207 632.866 405.475 424.781 -2573.236 -1155.287 261.207 632.866 405.475 425.861 -2563.260 -1586.337 261.207 652.86 405.475 424.781 -2573.236 -1402.267 261.207 652.86 405.475 424.781 -2563.260 -1366.260 261.207 652.861 416.6699 480.202 -2564.173 -1402.267 261.207 652.861 416.6699 480.202 -2564.130 -1157.736 261.207 669.373 477.571 533.143 -2610.2267 261.207 669.373 477.571 533.143 -2610.2267 261.207 669.373 477.571 533.143 -2610.2267 261.207 669.373 477.571 533.143 -2610.2273 -1157.736 261.207 691.152 456.599 585.385 -2603.410 -1097.356</td><td>23.162 360.855 211.715 101.312 -2465.186 -2074.70 242.315 402.170 25.578 19.409 -2025.890 242.316 402.610 255.578 19.409   TRANSITION</td><td>23.162 360.855 221.715 101.312 -2465.186 -2024.70 242.313 402.170 25.578 19.9490</td><td>23.162 360.855 211.715 100.312 -2465.186 -2074.70 242.315 402.170 25.578 19.409 -7025.890 242.316 402.610 255.578 19.409 -7025.890 242.318 402.40 255.78 19.409 -7025.890 252.880 416.461 260.007 14.869 -16.40.71 252.880 444.375 285.397 147.477 -16.44.821 -19.06.74 252.880 444.375 285.393 19.6408 -1977.834 261.207 499.44 294.88 24.816 -259.538 -1977.834 261.207 597.71 341.600 324.718 -1881.064 261.207 597.71 341.600 32.80 67 -2580.448 -1163.204 261.207 657.71 341.600 32.81 77.81 -1881.847 261.207 657.81 477.297 473.80 -156.837 261.207 657.81 477.297 473.80 -156.837 261.207 657.81 477.297 473.80 -156.837 261.207 669.48 477.297 597.023 -256.173 -164.737 261.207 669.48 477.297 597.023 -1159.366 261.207 669.48 477.297 597.023 -256.173 -164.239 261.207 669.48 477.297 597.023 -256.173 -164.239 261.207 669.48 477.297 597.023 -256.103 -119.736 261.207 669.48 477.297 597.023 -128.401 261.207 669.48 477.297 597.023 -256.103 -119.736 261.207 669.48 -166.699 585.385 -266.173 -119.736 261.207 669.48 -176.509 585.385 -128.401 261.207 669.48 -176.509 585.385 -128.401 261.207 669.48 -176.509 -156.507 261.207 669.48 -176.509 -156.507 261.207 669.48 -176.509 -156.507 261.207 669.48 -176.509 261.207 669.48 -176.509 261.207 669.48 -176.509 261.207 660.48 -176.509 261.207 669.48 -176.509 261</td><td>23.162 360.855 221.715 100.312 -2465.186 -2024.70 242.315 402.170 25.578 19.409 TRANSITION 19.205 10.3409 TRANSITION 19.205 80.0037 14.869 TRANSITION 14.054 10.344 260.037 14.869 TRANSITION 16.747 TRANSITION 16.747 TRANSITION 16.747 TRANSITION 16.747 TRANSITION 16.747 16.747 16.747 TRANSITION 16.205 10.340 TRANSITION 1</td><td>2</td><td>227.840</td><td>329.925</td><td>215.438</td><td></td><td>-2469.179</td><td>-2123.575</td><td>158.463</td></t<>	243.162 360.855 221.715 101.312 -2465.186 -2074.70 242.315 402.170 255.78 139.409 -7025.890 242.316 402.160 255.578 139.409 -7025.890 242.316 402.160 255.578 139.409 -7025.890 242.880 410.544 260.037 14.6869 -107.834 222.880 410.544 260.037 14.6869 -107.834 222.880 444.375 278.337 182.642 -2444.821 -1930.674 222.880 445.629 285.339 196.408 -1977.834 261.207 499.434 294.588 245.816 -2295.338 -1881.064 261.207 539.700 326.802 285.339 116.408 261.207 537.721 341.603 324.178 -1273.236 -1755.024 261.207 577.721 341.603 374.178 -1273.236 -1755.024 261.207 632.866 405.475 424.781 -2573.236 -1155.287 261.207 632.866 405.475 425.861 -2563.260 -1586.337 261.207 652.86 405.475 424.781 -2573.236 -1402.267 261.207 652.86 405.475 424.781 -2563.260 -1366.260 261.207 652.861 416.6699 480.202 -2564.173 -1402.267 261.207 652.861 416.6699 480.202 -2564.130 -1157.736 261.207 669.373 477.571 533.143 -2610.2267 261.207 669.373 477.571 533.143 -2610.2267 261.207 669.373 477.571 533.143 -2610.2267 261.207 669.373 477.571 533.143 -2610.2273 -1157.736 261.207 691.152 456.599 585.385 -2603.410 -1097.356	23.162 360.855 211.715 101.312 -2465.186 -2074.70 242.315 402.170 25.578 19.409 -2025.890 242.316 402.610 255.578 19.409   TRANSITION	23.162 360.855 221.715 101.312 -2465.186 -2024.70 242.313 402.170 25.578 19.9490	23.162 360.855 211.715 100.312 -2465.186 -2074.70 242.315 402.170 25.578 19.409 -7025.890 242.316 402.610 255.578 19.409 -7025.890 242.318 402.40 255.78 19.409 -7025.890 252.880 416.461 260.007 14.869 -16.40.71 252.880 444.375 285.397 147.477 -16.44.821 -19.06.74 252.880 444.375 285.393 19.6408 -1977.834 261.207 499.44 294.88 24.816 -259.538 -1977.834 261.207 597.71 341.600 324.718 -1881.064 261.207 597.71 341.600 32.80 67 -2580.448 -1163.204 261.207 657.71 341.600 32.81 77.81 -1881.847 261.207 657.81 477.297 473.80 -156.837 261.207 657.81 477.297 473.80 -156.837 261.207 657.81 477.297 473.80 -156.837 261.207 669.48 477.297 597.023 -256.173 -164.737 261.207 669.48 477.297 597.023 -1159.366 261.207 669.48 477.297 597.023 -256.173 -164.239 261.207 669.48 477.297 597.023 -256.173 -164.239 261.207 669.48 477.297 597.023 -256.103 -119.736 261.207 669.48 477.297 597.023 -128.401 261.207 669.48 477.297 597.023 -256.103 -119.736 261.207 669.48 -166.699 585.385 -266.173 -119.736 261.207 669.48 -176.509 585.385 -128.401 261.207 669.48 -176.509 585.385 -128.401 261.207 669.48 -176.509 -156.507 261.207 669.48 -176.509 -156.507 261.207 669.48 -176.509 -156.507 261.207 669.48 -176.509 261.207 669.48 -176.509 261.207 669.48 -176.509 261.207 660.48 -176.509 261.207 669.48 -176.509 261	23.162 360.855 221.715 100.312 -2465.186 -2024.70 242.315 402.170 25.578 19.409 TRANSITION 19.205 10.3409 TRANSITION 19.205 80.0037 14.869 TRANSITION 14.054 10.344 260.037 14.869 TRANSITION 16.747 TRANSITION 16.747 TRANSITION 16.747 TRANSITION 16.747 TRANSITION 16.747 16.747 16.747 TRANSITION 16.205 10.340 TRANSITION 1	2	227.840	329.925	215.438		-2469.179	-2123.575	158.463
242.313 402.170 255.578 139.409 TRANSITION 242.316 402.610 255.578 139.409 TRANSITION 222.880 416.461 263.107 153.354 -2454.208 -1977.854 222.880 446.4373 278.337 152.42 -2454.208 -1977.854 222.880 446.4373 278.337 152.42 -2454.208 -1977.854 222.880 446.4373 278.337 152.42 -2444.21 -19.06.74 222.880 446.4373 278.337 152.42 -2444.21 -19.06.74 222.890 487.633 285.393 231.972 261.207 499.44 294.288 24.5816 -2295.338 -1881.664 261.207 539.700 326.827 276.816 -2295.338 -1763.204 261.207 539.700 326.827 376.810 -2580.448 -1763.204 261.207 539.700 336.843 336.248 -1763.204 261.207 560.445 393.857 402.46 -2866.173 -1647.437 261.207 663.448 393.857 402.40 -2265.207 -1462.207 261.207 663.48 393.857 402.40 -2263.207 -1462.207 261.207 663.745 402.40 -2263.207 -1462.207 261.207 663.745 402.40 -2263.207 -1462.207 261.207 663.745 47.437 253.208 -1264.203 261.207 663.745 47.437 253.208 -1264.203 261.207 663.745 47.436 532.208 -1264.203 261.207 663.745 47.436 532.208 -1177.336 261.207 663.745 47.436 532.208 -1177.336 261.207 663.745 47.436 532.208 -1177.336 261.207 663.745 47.436 532.208 -1177.336	242.316 402.107 255.578 139.409 TRANISTRON 139.282 40.107 255.578 139.409 TRANISTRON 152.282 800 410.544 200.037 14.889 TRANISTRON 152.280 410.544 200.037 14.889 TRANISTRON 152.280 410.545 200.037 14.889 TRANISTRON 153.34 -2.454.208 -1.977.854 200.207 201.207 20	242.31 402.170 255.578 139.409 TRANSTRON 222.880 416.461 265.307 14.869 TRANSTRON 222.880 416.441 263.307 14.879 TRANSTRON 222.880 446.735 285.393 182.642 -244.821 -193.6674 222.880 446.735 285.393 182.642 -244.821 -193.6674 222.880 446.735 285.393 182.642 -244.821 -193.6674 222.880 446.735 285.393 213.972 -255.338 -1977.834 261.207 499.44 294.88 24.838 24.838 -1881.664 261.207 530.40 111.160 271.936 -1753.294 -1163.204 261.207 530.40 111.60 271.936 -256.473 -164.437 261.207 530.40 111.60 271.936 -1580.438 -1163.204 261.207 530.41 188.927 271.936 -1580.348 -1163.204 261.207 652.346 393.837 402.40 -256.32.60 -1580.347 261.207 652.346 393.837 402.40 -256.32.00 -1464.239 261.207 652.346 477.297 507.023 -2263.1031 -1340.650 261.207 650.435 477.297 507.023 -2263.1031 -1340.650 261.207 650.435 477.297 507.023 -2263.1031 -1340.650 261.207 650.435 477.297 507.023 -2263.1031 -1340.650 261.207 650.435 477.297 507.023 -2263.1031 -1340.650 261.207 650.435 456.999 585.385 -2663.731 -11677.336 261.207 650.435 477.637 595.264 -2563.203 -1286.401 261.207 650.435 477.297 507.023 -2263.1031 -11977.336 261.207 650.435 477.297 507.023 -2263.1031 -11973.356 261.207 650.435 477.297 507.023 -2263.1031 -11977.336	242.31 402.170 255.578 139.409 TRANSITION 252.880 416.461 265.0037 147.879 TRANSITION 252.880 416.441 260.037 147.879 TRANSITION 252.880 416.441 260.037 147.879 TRANSITION 252.880 416.441 263.107 153.354 -2454.208 -1977.834 252.880 444.373 278.337 152.462 2444.821 -1950.674 252.880 445.753 285.393 156.409 TRANSITION 261.207 455.629 245.88 24.890 211.160 211.978 21.977 261.207 553.7721 341.600 21.978 21.97	242.31 402.170 255.578 139.409 TRANSTRON 222.880 416.461 265.107 153.354 -2454.208 -1977.834 222.880 444.375 278.337 162.40 -1977.834 222.880 444.375 278.337 182.62 -2444.21 -1930.674 222.880 444.375 278.337 182.62 -2444.21 -1930.674 222.880 444.375 278.337 182.62 -2444.21 -1930.674 222.880 444.375 278.337 182.62 -244.21 -1930.674 222.880 444.375 278.337 182.62 -244.22 -1930.674 261.207 499.44 294.88 244.88 -1930.89 -1930.89 261.207 530.740 111.160 238.69 261.207 537.71 341.609 238.69 261.207 657.81 48.99 261.207 657.81 477.297 597.023 -2265.173 -1647.37 261.207 657.81 477.297 597.023 -2263.20 -1464.239 261.207 657.81 477.297 597.023 -2263.20 -1464.239 261.207 657.81 477.297 597.023 -2263.20 -1462.239 261.207 659.313 477.297 597.023 -2263.20 -1286.401 261.207 659.313 477.297 597.023 -2263.20 -1286.4239 261.207 659.313 477.297 597.023 -2263.20 -1286.4239 261.207 659.313 477.297 597.023 -2263.20 -1286.203 261.207 659.313 477.297 597.023 -2263.20 -1286.203 261.207 659.313 477.297 597.023 -2263.20 -1286.203 261.207 659.313 477.297 597.023 -2263.203 -1137.36 261.207 659.313 477.297 597.023 -2263.203 -1137.36 261.207 659.313 477.297 597.023 -2263.203 -1137.36 261.207 691.152 456.999 585.385 -2660.223 -1137.36	242.31 402.170 255.578 139.409 TRANSITION 132.82 80 40.540 255.578 139.409 TRANSITION 147.87 140.541 250.037 14.869 TRANSITION 147.87 140.541 250.037 14.869 TRANSITION 147.87 140.541 250.037 14.869 TRANSITION 147.87 147.831 147.833 147.842 147.842 147.833 147.842 147.833 147.842 147.833 147.842 147.842 147.842 147.833 147.842 147.84	22	235.162	360.855	231.715		-2465.186	-2074.470	135.449
243.16 402.610 255.778 1199.828 TRANSITION 252.820 410.544 260.037 146.869 TRANSITION 252.830 416.461 263.107 153.354 -2454.208 -1977.854 1 252.830 46.5529 285.393 195.408 -1977.854 1 261.207 495.44 294.88 25.81.97 TRANSITION 261.207 495.44 294.88 25.81.97 TRANSITION 261.207 530.40 111.160 271.956 -1970.784 1 261.207 530.40 116.60 271.956 -1570.204 261.207 530.40 116.60 271.956 -1570.204 261.207 530.40 116.60 271.956 -1570.204 261.207 530.40 116.60 271.956 -1570.204 261.207 530.40 116.60 271.956 -1570.204 261.207 530.40 116.60 271.956 -1570.204 261.207 530.41 14.609 271.956 -1570.206 261.207 645.510 416.609 480.907 -1647.207 261.207 645.510 416.609 480.907 -1670.306 261.207 655.761 477.53 530.304 -1130.206 261.207 655.761 477.53 530.304 -1130.306 261.207 655.761 477.53 530.304 -1130.306 261.207 655.761 477.53 530.204 -1137.736 261.207 657.761 477.537 530.204 -1137.736 261.207 657.761 477.537 530.204 -1137.736 261.207 657.761 -1077.336	243.16 402.610 255.578 199.828 TRANSITION 224.275 409.903 260.037 144.859	243.16 402.610 255.778 1199.828 TRANSTITION 224.275 409.903 260.037 144.859 TRANSTITION 222.880 416.461 263.107 153.334 -244.4208 -1977.824 1 222.880 444.375 278.337 182.642 -244.421 -1990.674 222.880 444.375 278.337 182.642 -244.421 -1990.674 222.880 446.520 285.393 196.408 TRANSTITION 226.207 496.434 294.588 219.77 184.609 219.7854 1 261.207 539.700 235.8393 196.408 116 LIQUID 261.207 539.700 235.809 236.809 236.809 188.1064 261.207 537.711 341.660 344.818 -2458.138 -1881.064 261.207 537.571 341.660 344.818 -2458.139 -1763.204 261.207 537.571 341.660 344.818 -2658.173 -1647.209 261.207 632.866 405.475 447.81 -2658.066 -1467.209 261.207 637.61 416.699 393.877 428.661 -2658.206 -1467.209 261.207 637.61 446.699 593.264 -2661.201 -1130.659 261.207 691.152 456.999 585.385 -2663.410 -1097.356	243.16 402.610 255.778 1199.828 TRANSTITION 224.275 409.003 260.037 144.869 TRANSTITION 222.880 416.461 263.107 153.334 -244.4208 -1977.834 1 222.880 44.475 278.337 182.642 -244.4218 -1970.674 222.880 44.475 278.337 182.642 -244.4218 -1970.674 222.880 44.477 278.337 182.642 -244.4218 -1970.674 221.280 46.652 285.393 219.77 261.207 499.44 294.88 24.848 219.77 261.207 593.700 126.802 298 637 -2596.473 -1821.847 261.207 593.700 126.802 298 637 -2596.473 -1821.847 261.207 593.700 126.802 298 637 -2596.473 -1647.437 261.207 645.810 447.453 535.43 -2659.569 -1899.344 261.207 645.810 447.453 539.264 -1647.259 261.207 645.810 447.453 539.264 -1647.239 261.207 653.713 447.453 539.264 -2659.569 -1899.346 261.207 654.510 447.453 539.264 -2601.037.356 261.207 691.152 456.899 585.385 -2603.410 -1097.356	24.316 402.610 255.578 1199.828 TRANSITION 224.375 409.903 260.037 144.859 TRANSITION 222.880 410.544 260.037 144.89 TRANSITION 222.880 444.375 278.337 182.62 -2444.821 -199.0674 222.880 444.375 278.337 182.62 -2444.821 -199.0674 223.880 456.529 285.393 196.408 TRANSITION 261.207 499.434 294.588 245.816 -259.338 -180.1009 261.207 539.700 336.802 238.637 111.60 238.6403 111.60 238.6403 111.60 238.6413 -195.05.244 261.207 539.700 336.802 238.637 -175.234 261.207 537.713 341.603 334.478 -275.324 -176.324 261.207 537.571 341.603 334.478 -2556.473 -1647.274 261.207 645.88 93.887 44.781 -2638.086 -1467.257 261.207 645.89 393.87 44.781 -2638.086 -1467.257 261.207 657.761 477.297 480.902 -2564.133 -129.366 261.207 657.761 477.297 480.902 -2564.133 -129.366 261.207 669.483 477.297 480.902 -2564.131 -129.366 261.207 691.152 456.599 585.383 -2603.410 -1097.336	243.16 402.610 255.778 1199.828 TRANSTITION 224.275 409.903 260.037 144.859 TRANSTITION 222.890 416.461 263.107 153.334 -244.4208 -1977.834 1 222.890 444.375 278.337 182.642 -2444.821 -199.0674 222.890 444.375 278.337 182.642 -2444.821 -199.0674 222.890 444.375 278.337 182.642 -2444.821 -199.0674 221.290 495.434 294.888 245.816 -2.595.338 -1881.064 261.207 539.700 315.663 245.816 -2.595.338 -1881.064 261.207 539.700 315.663 245.816 -2.595.338 -1881.064 261.207 539.700 315.663 246.816 -2.595.338 -1881.064 261.207 539.700 315.663 310.208 -2.566.173 -1647.437 261.207 645.510 416.609 393.837 428.641 -2659.609 -1559.334 261.207 645.510 416.609 393.837 428.641 -2659.269 261.207 650.318 477.297 597.023 -1647.239 261.207 650.318 477.297 597.023 -2601.010 -1097.356 261.207 690.415 456.899 585.385 -2601.410 -1097.356	8	242.313	402.170	255.578		10000	1<>	
243, 275         409,03         260,037         146,889         II <> III           222, 880         416,544         260,037         147,497         TRANSITION           292, 880         444,375         278,337         182,642         -197,844         197,844           292, 880         444,375         278,337         182,642         -144,821         -197,0674           202, 880         445,575         283,393         196,408         III <> LIQUID           261,207         487,635         283,393         196,408         III <> LIQUID           261,207         520,427         311,600         221,937         182,100           261,207         537,721         341,603         324,178         -183,184           261,207         557,731         341,603         324,178         -183,184           261,207         557,731         341,603         324,178         -176,234           261,207         557,731         341,603         324,178         -176,337           261,207         557,731         341,603         324,178         -176,337           261,207         563,403         317,313         -164,239           261,207         564,488         33,343         -186,337	243 275 409.903 260.037 146.869	243 275 409.903 260.017 146.869	243.275 409.903 260.037 146.869	243 275 409.03 260.037 146.869	243 275 409.003 260.017 146.869	8	242,316	402.610	255.578	139.828		TRANSITION	
292.880         416.461         263.107         153.354         -1454.208         -1977.854         1           292.880         444.375         278.337         182.642         -2444821         -1900.674           292.880         456.652         285.393         196.408         III          -1900.674           261.207         497.635         285.393         196.408         III         > LIQUID           261.207         520.42         311.160         271.338         -1881.064           261.207         537.721         341.603         324.178         -2595.338         -1881.064           261.207         537.721         341.603         324.178         -2596.438         -175.324           261.207         577.721         341.603         324.178         -259.438         -1753.84           261.207         577.721         341.603         324.178         -259.438         -1763.83           261.207         577.721         341.603         324.178         -259.509         -1893.34           261.207         605.348         338.77         402.40         -1667.329         -1667.437           261.207         613.866         405.478         -259.509         -1464.239           2	292.880         416.461         263.107         153.354         -1454.208         -1977.854         1           292.880         444.375         278.337         182.642         -2444.821         -1900.674           292.880         456.629         285.393         196.408         -1190.674         -1900.674           261.207         498.434         294.588         245.816         -2595.338         -1881.064           261.207         520.342         311.160         271.935         -2787.813         -1881.064           261.207         537.701         326.802         288.037         -2580.448         -1753.204           261.207         537.721         341.603         334.178         -2559.448         -1753.204           261.207         537.721         341.603         334.178         -2559.649         -1763.204           261.207         561.207         544.731         -265.956         -1563.334           261.207         561.207         543.835         -164.421           261.207         561.408         493.857         443.81         -265.306         -1563.37           261.207         561.408         445.781         -263.806         -1464.219         -1464.219           261.207 </td <td>22.880 416.461 263.107 153.334 -1454.208 -1977.834 1 22.880 44.375 278.337 182.642 -244.4821 -1990.674 22.880 45.652 285.393 196.408</td> <td>22.880 416.461 263.107 153.334 -144.4208 -1977.834 1 22.880 444.375 278.337 182.642 -2444.821 -1930.674 22.880 46.562 285.393 196.408</td> <td>22.880 416.461 263.107 153.334 -1454.208 -1977.834 1 22.880 44.375 278.337 182.642 -2444.821 -1990.674 22.880 45.652 285.393 196.408</td> <td>22.880 416.461 263.107 153.334 -1454.208 -1977.834 1 22.880 444.375 278.337 182.642 -2444.821 -1930.674 22.880 456.52 285.393 196.408</td> <td>88</td> <td>243 .775 292 .880</td> <td>409.903</td> <td>260.037 260.037</td> <td>146.869</td> <td></td> <td>11 &lt;&gt; 111</td> <td></td>	22.880 416.461 263.107 153.334 -1454.208 -1977.834 1 22.880 44.375 278.337 182.642 -244.4821 -1990.674 22.880 45.652 285.393 196.408	22.880 416.461 263.107 153.334 -144.4208 -1977.834 1 22.880 444.375 278.337 182.642 -2444.821 -1930.674 22.880 46.562 285.393 196.408	22.880 416.461 263.107 153.334 -1454.208 -1977.834 1 22.880 44.375 278.337 182.642 -2444.821 -1990.674 22.880 45.652 285.393 196.408	22.880 416.461 263.107 153.334 -1454.208 -1977.834 1 22.880 444.375 278.337 182.642 -2444.821 -1930.674 22.880 456.52 285.393 196.408	88	243 .775 292 .880	409.903	260.037 260.037	146.869		11 <> 111	
292.880         444.375         278.337         182.642         -2444821         -1930.674           292.880         456.529         283.393         196.408         III          LIQUID           261.207         497.635         285.393         196.408         III          III          LIQUID           261.207         520.347         311.160         221.937         188.108         -188.108           261.207         537.721         341.663         324.118         -1831.847         -1831.847           261.207         557.721         341.663         324.178         -1831.847         -1831.847           261.207         577.721         341.663         324.178         -156.324         -176.324           261.207         577.721         341.633         376.418         -158.334         -166.347           261.207         60.345         381.712         402.40         -158.334         -158.334           261.207         60.346         381.712         402.40         -158.334         -158.337           261.207         61.286         405.478         424.781         -268.206         -146.229           261.207         63.866         -258.206         -146.229         -130.366	292.880         444.375         278.337         182.642         -2444821         -1930.674           282.880         456.529         285.393         196.408         III          LIQUID           261.207         495.434         219.408         III          LIQUID           261.207         520.42         311.160         271.338         -1881.064           261.207         520.42         311.160         271.355         -2587.813         -1831.847           261.207         537.721         341.603         324.178         -153.847         -173.340           261.207         537.721         341.603         324.178         -153.347         -173.236           261.207         577.345         388.937         -156.173         -164.437           261.207         577.34         38.171         402.540         -158.9334           261.207         619.468         393.857         402.540         -156.337           261.207         645.510         403.5475         424.731         -164.239           261.207         645.510         416.609         409.00         -164.239           261.207         669.318         437.311         -263.203         -1146.239           261.207	22.289	22.289	22.289	22.289	8	292.880	416.461	263.107	153,354	-2454.208	-1977.854	103.312
20.288	20.2880 456.629 285.393 195.408 III <>LIQUID	20.2.89	20.2880 456.629 285.393 195.408 III c>LIQUID 20.1207 497.635 285.393 214177 III C->>LIQUID 20.1207 50.342 211.160 271.935 1181.064 20.1207 513.771 31.160 271.935 1181.064 20.1207 517.771 341.603 324.178 -1871.324 20.1207 517.771 341.603 324.178 -176.234 20.1207 514.79 315.643 330.298 -2556.173 -1671.437 20.1207 605.348 318.772 402.340 -1671.239 20.1207 605.348 318.772 402.340 -1671.239 20.1207 605.348 31.772 402.340 -1671.239 20.1207 605.348 31.772 51.203 -256.1703 -1464.239 20.1207 605.348 347.277 51.203 -260.203 -1167.239 20.1207 605.378 477.277 507.23 -260.203 -1177.369 20.1207 605.378 477.277 572.277 572.329 20.1207 605.378 477.277 572.277 572.329 20.1207 605.378 477.277 572.277 572.329 20.1207 605.378 477.277 572.277 572.329 20.1207 605.378 477.277 572.277 572.329 20.1207 605.378 477.277 572.277 572.329 20.1207 600.489 477.277	20.2860 456.629 285.393 195.408 III c>LIQUID 20.207 457.635 285.393 214177 III C->>LIQUID 20.207 457.635 285.393 214177 III C->>LIQUID 20.207 520.342 311.160 271.935 -2587.813 -1831.847 20.207 530.700 315.630 324.178 -2580.448 -1765.294 20.207 577.71 341.603 324.178 -2580.448 -1765.294 20.207 577.72 345.643 32.8543 -2685.173 -1687.394 20.207 605.345 318.712 402.340 -2685.179 -1687.394 20.207 605.346 318.712 402.340 -2685.170 -1464.299 20.207 605.346 318.712 402.340 -2683.266 -1402.267 20.207 605.346 318.712 402.340 -2681.203 -1164.299 20.207 605.348 318.712 456.599 350.243 -2610.203 -1164.299 20.207 605.349 477.379 570.203 -2631.031 -130.660 20.207 605.349 477.463 559.264 -2610.223 -1177.736 20.207 601.152 456.599 585.385 -2601.410 -1097.356	20.286	8	292.880	444.375	278.337	182.642	-2444,821	-1930.674	91.680
261.207 520.42 24.58 245.81 -2559.33 -1381.064 261.207 520.42 311.160 271.355 -27587.813 -1881.064 261.207 520.42 311.160 271.355 -27587.813 -1881.064 261.207 557.721 341.603 324.178 -2550.448 -1763.204 261.207 574.75 355.643 370.238 -2566.173 -1647.477 261.207 605.345 318.772 402.340 -2655.776 -1555.387 261.207 613.868 393.857 428.661 -2565.8276 -1589.334 261.207 645.610 416.699 480.902 -2651.031 -1340.527 261.207 657.761 477.297 550.203 -1642.292 261.207 657.761 477.297 550.203 -1279.366 261.207 659.738 447.463 559.264 -260.223 -1157.736 261.207 659.738 447.463 559.264 -260.223 -1157.736 261.207 659.738 456.599 585.385 -260.3410 -1097.336	261.207 499.444 294.588 244.816 -2595.338 -1881.004- 261.207 520.342 311.160 271355 -25878.131 -1881.004- 261.207 537.721 341.603 324.178 -2580.448 -1753.244  261.207 577.721 341.603 324.178 -2573.236 -1763.032  261.207 574.759 355.643 320.288 -2566.173 -1667.473  261.207 605.345 318.712 402.540 -2655.250 -1589.334  261.207 645.510 416.609 480.902 -2631.031 -1340.650  261.207 645.510 416.609 480.902 -2631.031 -1340.650  261.207 669.373 477.377 557.263 -1263.037 -1277.366  261.207 680.489 447.463 559.264 -2610.223 -1187.736  261.207 680.489 447.463 559.264 -2610.223 -1187.736	261.207	261.207 499.444 294.588 244.816 -2595.338 -1881.004 261.207 520.427 311.160 271.355 -1258.7413 -1881.004 261.207 530.702 326.803 324.178 -1253.844 -1753.204 261.207 577.71 341.603 324.178 -2559.434 -1753.204 261.207 577.71 341.603 324.178 -2556.173 -1657.324 261.207 655.345 318.712 402.540 -2562.376 -1562.587 261.207 655.560 416.609 480.902 -2651.376 -1464.239 261.207 655.560 416.609 480.902 -2631.031 -1464.239 261.207 655.560 416.609 480.902 -2631.031 -1464.239 261.207 655.560 416.609 480.902 -2631.031 -1464.239 261.207 650.349 477.571 533.143 -2817.038 -1187.736 261.207 691.152 456.599 585.385 -2603.410 -1097.356	261.207	261.207	88	292.880	456.629	285.393	196.408		VP	-
261207         520342         311.160         271.395         -2587.813         -1881.337           261207         539.700         356.802         238.607         -2580.448         -176.3204           261207         577.721         314.603         324.178         -176.3204         -176.3204           261207         577.721         314.603         324.178         -156.204         -176.3204           261207         577.721         31.028         -256.173         -164.437         -164.437           261207         563.445         318.712         402.540         -256.517         -164.239           261207         619.468         393.837         428.661         -264.202         -146.239           261207         645.610         46.609         480.902         -263.206         -1402.267           261207         667.616         477.577         507.33.66         -246.239         -130.659           261207         667.345         477.571         573.143         -261.031         -130.559           261207         667.152         456.899         480.902         -264.035         -1177.366           261207         667.152         456.899         585.385         -2603.410         -1097.356	261207         510342         311.160         271336         -2587.813         -1821.327           261207         539.700         386.802         2286.9448         -1763.204           261207         577.721         346.603         234.178         -1573.204           261207         574.779         345.643         350.208         -256.173         -1647.477           261207         577.721         386.972         376.419         -1676.302         -1676.302           261207         503.445         388.712         402.40         -265.176         -1586.334           261207         603.448         318.712         402.40         -265.276         -1256.337           261207         613.286         403.475         447.781         -265.206         -1464.239           261.207         645.610         416.609         480.902         -261.031         -1404.539           261.207         655.610         416.609         480.902         -261.031         -1370.536           261.207         655.610         471.571         577.737         570.24035         -1177.36           261.207         660.489         447.463         559.264         -2601.223         -1127.736           261.207	261207 550342 311.160 271.335 -2587.813 -1821.847 261207 575.7721 316.002 2206.443 -1763.204 261207 575.7721 315.643 324.178 -2573.236 -1763.204 261207 575.7721 315.643 324.178 -2556.173 -1647.477 261207 565.345 318.712 402.540 -2652.776 -1589.334 261207 665.345 318.712 402.540 -2652.776 -1589.334 261207 665.266 416.669 480.902 -2631.031 -1464.239 261207 665.761 477.277 507.23 -2654.035 -1464.239 261207 665.373 477.81 -2638.086 -1402.267 261207 665.373 477.81 -2638.086 -1402.267 261207 669.373 477.81 -2638.086 -1402.267 261207 669.373 477.81 -2638.086 -1177.365 261207 669.373 477.81 -2610.223 -1177.365 261207 691.152 456.899 585.383 -2603.410 -1097.356	261207 520342 311.160 271335 -2387431 -1821347 261207 535700 356802 258 657 -2586448 -1763.204 261207 574773 335.643 334.178 -2556473 -1763.204 261207 574773 335.643 334.178 -2556473 -1647.437 261207 663.445 317.17 402.540 -2652.376 -1256.387 261207 663.445 334.877 402.540 -2652.376 -1256.387 261207 663.445 334.877 402.540 -2652.376 -126.239 261207 665.510 416.609 480.902 -2631.031 -1340.650 261207 665.373 477.571 507.373 -2670.387 261207 669.373 477.571 507.373 -2670.387 261207 669.373 477.571 507.374 -2610.223 -1157.736 261207 691.152 456.999 585.385 -2603.410 -1097.356	261207 550342 311.160 271335 -2587.813 -1821387 261207 5757721 316.002 2206.483 -1763.204 261207 574772 315.643 236.07 -2586.413 -1763.204 261207 574772 315.643 314.002 -2566.173 -1647.47 261207 605.345 318.712 402.540 -2652.776 -1585.314 261207 605.345 318.712 402.540 -2652.776 -1585.314 261207 605.345 318.712 402.540 -2652.776 -1265.327 261207 655.610 416.609 480.902 -2651.031 -1464.239 261207 655.716 477.571 577.31 -2652.036 -1472.267 261207 650.435 447.463 559.264 -2610.223 -1177.36 261207 650.435 447.463 559.264 -2610.223 -1177.36 261207 650.435 447.463 559.264 -2610.223 -1177.36 261207 691.152 456.999 585.385 -2603.410 -1097.356	261207 520342 311.160 271335 -2387433 -1831347 261207 539.700 356.802 238 637 -256.448 -1763.204 261207 577.721 341.603 238.677 -256.473 -1763.204 261207 657.441 385.942 376.419 -256.6173 -1647.47 261207 663.445 317.72 402.40 -265.170 -1647.47 261207 663.445 317.72 402.40 -265.270 -1467.29 261207 663.445 317.72 402.40 -265.270 -1467.29 261207 669.373 475.71 573.72 570.204.035 -1467.29 261207 669.373 477.571 570.204.035 -1279.366 261207 669.373 477.571 573.343 -2617.038 -1187.36 261207 660.435 447.463 559.264 -2617.209 -1187.36 261207 660.435 447.463 559.264 -2617.209 -1187.36 261207 661.152 456.999 585.385 -2603.410 -1097.356	2	261 207	400 414	294 588		-2505 118	- 1891 064	10010
261,207 539,700 335,802 228 657 -2580,448 -1763,204 261,207 574,771 341,603 234,178 -2573,245 -1763,204 261,207 574,579 355,643 350,228 -256,173 -1647,477 261,207 590,415 368,592 376,419 -2658,509 -1589,334 261,207 619,468 333,857 478,661 -265,207 -164,239 402,540 -2652,370 -1589,334 261,207 619,468 333,857 478,661 -2653,207 -164,229 261,207 657,610 471,577 571,010 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571,01 471,571 571 571,571 571 571,571 571 571 571 571 571 571 571 571 571	261,207 539,700 335,802 228 657 -2580,448 -1763,204 261,207 557,721 341,603 324,118 -2573,256 -1705,002 261,207 590,415 368,992 336,643 -2561,73 -1647,437 261,207 605,345 318,112 402,540 -2652,376 -1589,334 261,207 619,468 338,871 402,540 -2653,376 -1464,239 261,207 619,468 393,887 478,661 -2645,202 -1464,239 261,207 645,610 416,609 480,902 -2631,031 -1340,650 261,207 667,761 416,609 480,902 -2631,031 -1340,650 261,207 669,741 471,297 507,023 -2634,035 -1279,346 261,207 680,489 447,463 559,264 -2610,223 -1151,736 261,207 691,152 456,999 585,385 -260,3410 -1097,356	261,207 539,700 335,802 228 657 -2580,448 -1763,204 281,207 537,721 341,603 234,187 -2573,236 -1705,204 281,207 574,579 335,643 350,228 -2565,173 -1647,437 261,207 650,345 311,712 402,340 -2652,376 -1589,334 261,207 650,346 331,817 402,340 -2652,376 -1589,334 261,207 651,646,393 450,952 -261,037 619,468 331,817 402,340 -2652,376 -164,239 261,207 657,761 477,297 507,023 -2624,003 -1679,366 261,207 661,152 456,999 583,385 -2603,410 -1097,356 261,207 661,152 456,999 583,385 -2603,410 -1097,356	261,207 539,700 336,802 228 657 -2580,448 -1763,204 261,207 574,710 341,603 234,118 -2573,236 -1705,202 261,207 574,710 335,643 350,228 -256,173 -164,747 261,207 580,415 368,972 376,419 -2559,569 -1589,334 261,207 603,448 393,837 478,661 -265,207 -164,239 261,207 603,468 393,837 478,661 -265,207 -164,239 261,207 603,419 475,71 573,419 -261,007 -1077,356 261,207 691,152 456,999 585,385 -2603,410 -1097,356 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261,207 539,700 335,802 228 657 -2580,448 -1763,204 281,207 537,721 341,603 324,118 -2573,236 -1705,204 281,207 574,579 335,643 330,228 -2566,173 -1647,437 261,207 653,445 318,1712 402,540 -2652,376 -1589,334 261,207 653,445 318,1712 402,540 -2652,376 -1589,334 261,207 654,566 405,475 402,540 -2652,376 -1464,239 261,207 657,761 477,297 577,023 -261,031 -1340,550 261,207 661,152 456,959 585,385 -2603,410 -1097,356 261,207 691,152 456,959 585,385 -2603,410 -1097,356	261,207 539,700 336,802 228 657 -2580,448 -1763,204 261,207 571,721 341,603 234,178 -2573,236 -1705,204 261,207 574,579 335,643 330,228 -2566,173 -1647,437 261,207 650,345 311,712 402,549 -2655,107 -1589,334 261,207 650,345 319,857 478,661 -2653,207 -1589,334 261,207 650,346 402,407 402,549 -2652,370 -1564,239 261,207 653,610 471,571 571,771 571 571,771 571,771 571,771 571 571,771 571,771 571,771 571 57	38	261.207	520.342	311.160		-2587.813	-1821.847	73.203
261.207 574.579 355.643 350.288 -2566.173 -1647.437 261.207 590.415 368.592 376.419 -2656.173 -1647.437 261.207 603.445 318.712 402.540 -2652.376 -1589.334 261.207 619.468 313.827 478.640 -2652.376 -1642.39 261.207 645.610 475.279 480.927 -2651.031 -1402.267 261.207 645.610 477.279 507.023 -2651.031 -1402.267 261.207 667.716 477.279 507.023 -2674.035 -1779.366 261.207 669.315 477.517 533.143 -2611.208 -1177.366 261.207 669.315 477.463 589.264 -2601.237 -1177.366 261.207 669.315 477.463 589.385 -2603.410 -1097.336	261.207 574.579 355.643 350.289 -2566.173 -1647.472 261.207 590.415 368.992 376.419 -2659.659 261.207 605.445 3181.12 402.540 -2657.376 -1589.334 261.207 619.468 393.857 478.661 -2645.207 -1464.239 261.207 645.610 416.609 480.902 -2631.031 -1340.650 261.207 657.761 471.297 507.023 -2624.035 -1279.366 261.207 669.489 577.761 573.143 -2631.031 -1340.650 261.207 669.489 575.264 -2610.223 -1279.366 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261.207 574.579 355.643 350.289 -2566.173 -1647.477 261.207 550.415 385.943 350.289 -2566.173 -1647.477 261.207 550.415 385.943 350.289 -2566.173 -1647.477 261.207 6619.468 393.857 478.661 -2645.202 -1464.299 261.207 6619.468 405.475 47.81 -2563.202 -1467.299 261.207 657.761 477.297 577.023 -2631.031 -1340.650 261.207 663.73 477.297 577.023 -2624.035 -1279.366 261.207 6691.152 456.999 585.385 -2603.410 -1097.356	261.207 574.579 355.643 350.288 -2566.173 -1647.477 261.207 590.415 368.592 376.419 -2652.376 -1589.344 201.207 603.445 317.102 -2652.376 -1647.377 261.207 603.445 317.102 -2652.376 -1647.239 261.207 603.445 317.102 402.540 -2652.376 -1647.239 261.207 603.646 403.475 403.481 -2563.080 -164.239 261.207 667.103 407.241 -267.003 -267.1031 -1340.650 261.207 669.313 471.571 5733.143 -267.093 -1177.365 261.207 669.313 471.571 5733.143 -267.093 -1177.376 261.207 669.1152 456.599 585.385 -2603.410 -1097.336	261.207 574.579 355.643 350.289 -2566.173 -1647.472 261.207 580.415 368.929 376.419 -2659.649 -1589.314 261.207 603.445 319.1871 402.540 -2652.107 -1589.314 261.207 603.465 405.475 44.781 -2563.866 -1647.257 261.207 653.560 405.475 44.781 -2563.866 -1407.257 261.207 653.701 417.207 507.023 -2621.031 -1340.650 261.207 669.489 585.385 -2603.410 -1097.356 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261.207 574.579 355.643 350.288 -2566.173 -1647.472 261.207 580.415 368.929 376.419 -2655.173 -1647.472 261.207 603.445 313.1712 -265.173 -1647.291 261.207 603.445 313.1712 -265.202 -1642.291 261.207 603.445 313.1712 -1642.291 261.207 603.415 403.451 -2653.002 -1642.291 261.207 603.716 477.297 507.023 -2654.013 -179.366 261.207 603.489 447.463 539.244 -2610.293 -1179.366 261.207 601.152 456.999 585.385 -2603.410 -1097.336	22	261.207	539.700	326.802		-2580.448	-1763.204	65.786
261,207 590,415 368,992 376,419 2659,659 -1893,344 261,207 605,345 318,1712 402,540 -2659,376 -1893,344 261,207 619,468 318,871 402,40 -265,2376 -146,239 261,207 645,610 416,659 480,902 -2631,031 -1340,650 261,207 669,373 47,511 533,143 -2651,032 -1279,366 261,207 669,373 47,463 559,264 -2601,223 -1157,736 261,207 660,489 447,463 559,264 -2601,223 -1157,736 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261,207         590,415         368,992         376,419         2659,669         -189,334           261,207         603,445         318,712         402,40         -2659,469         -189,334           261,207         619,468         318,571         428,661         -264,202         -146,239           261,207         632,866         405,473         454,781         -2638,086         -140,267           261,207         657,761         471,297         800,002         -261,031         -130,659           261,207         657,761         471,277         870,033         -2624,035         -1130,659           261,207         659,373         477,277         870,033         -264,035         -118,401           261,207         650,376         477,463         559,264         -261,022         -1178,401           261,207         680,489         447,463         559,264         -2610,223         -1157,736           261,207         681,152         456,999         385,385         -2603,410         -1097,356	261,207     580,415     388,992     376,419     -2659,669     -1893,334       261,207     603,445     318,171     402,329     -1893,334       261,207     604,648     318,471     402,402     -264,202     -146,229       261,207     645,610     416,699     480,902     -263,206     -140,250       261,207     645,610     416,699     480,902     -263,403     -172,536       261,207     669,433     477,471     570,033     -173,466       261,207     691,152     456,999     585,385     -2603,410     -197,136       261,207     691,152     456,999     585,385     -2603,410     -1097,136	261,207 590,415 368,997 376,419 2659,459 -1589,334 261,207 605,445 318,712 402,450 -1589,459 -1589,459 261,207 619,468 318,571 40,250 -2651,207 -146,4239 261,207 651,860 405,475 43,4781 -2658,206 -1402,207 261,207 657,761 47,279 570,032 -2631,031 -1340,650 261,207 669,439 47,451 57,731 57,314 -261,207 691,152 456,999 585,385 -2603,410 -1097,356 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261,207     580,415     388,992     376,419     -2659,669     -1893,334       261,207     605,345     318,712     407,207     -185,314     -165,237     -165,237     -165,237       261,207     645,610     416,609     480,902     -263,206     -140,237       261,207     645,610     416,609     480,902     -263,403     -177,507       261,207     667,761     477,297     -263,403     -177,96       261,207     669,453     477,457     579,240     -177,96       261,207     691,152     456,999     585,385     -260,371     -1157,736       261,207     691,152     456,999     585,385     -260,371     -1197,356	261,207 590,415 368,992 376,419 2559,569 -1589,334 261,207 605,445 318,1712 402,540 -1589,334 261,207 612,687 404,475 451,207 612,687 404,475 451,207 645,610 416,609 480,902 -2631,031 -1340,650 261,207 663,716 477,297 507,032 -2634,035 -1279,366 261,207 663,716 477,297 507,032 -2634,035 -1279,366 261,207 669,115 457,597 507,032 -260,3410 -1097,356 261,207 691,152 456,999 585,385 -2603,410 -1097,356	2 5	261 207	574 570	355 643		-2566 173	- 1647 437	53.763
261,207 605,345 381,712 402.540 -256,23.76 -1526,887 261,207 619,468 393,857 478.661 -2645,202 -1464,239 261,207 619,468 405,475 45,4781 -2638,086 -1402,207 261,207 645,610 416,609 480,902 -261,031 -140,650 261,207 663,73 475,71 533,143 -261,708 -1177,36 261,207 660,489 447,463 559,264 -2610,223 -1157,736 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261,207 605,345 381,712 402.540 -256,2136 -1526,887 261,207 619,468 391,887 438,661 -2645,202 -1464,239 261,207 645,610 416,609 480,002 -251,031 -1340,650 261,207 645,610 416,609 480,002 -251,031 -1340,650 261,207 657,761 477,297 507,023 -254,035 -1279,346 261,207 669,373 477,297 533,149 -2617,098 -1278,346 261,207 691,152 456,999 585,385 -260,3410 -1097,356	261.207 605.345 381.712 402.540 -256.23.706 -155.587 261.207 619.468 391.857 261.207 645.610 416.609 445.002 -2561.031 -1340.559 261.207 655.610 416.609 445.002 -2561.031 -1340.559 261.207 665.7161 477.297 507.023 -2564.035 -1279.366 261.207 669.152 456.999 585.385 -2603.410 -1097.356 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261,207 605,345 381,712 402,240 -256,2376 -1652,887 261,207 619,468 391,887 438,661 -265,200 -165,209 261,207 645,610 416,659 480,000 -261,031 -263,806 -1402,267 261,207 645,610 416,659 480,000 2-261,031 -1279,566 261,207 669,313 471,297 570,003 -262,4035 -1279,566 261,207 669,313 471,297 570,003 -261,003 -1127,736 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,152 456,999 385,385 -2603,410 -1097,356 261,207 691,2	261.207 605.345 381.712 402.540 -256.23.706 -155.587 261.207 619.468 393.857 261.207 65.266 405.475 45.4781 -2653.036 -1462.239 261.207 65.510 416.659 445.027 -2561.031 -1340.659 261.207 669.373 477.237 507.023 -2624.035 -1279.366 261.207 669.373 477.277 507.023 -2674.035 -1279.366 261.207 691.452 456.999 585.385 -2603.410 -1097.336	261,207 605,345 381,712 402,540 -256,2376 -1652,879 261,207 619,468 391,877 428,661 -264,5207 -146,4299 261,207 645,610 41,669 440,007 -2631,031 -1340,659 261,207 669,7761 477,297 507,023 -2624,035 -1279,366 261,207 669,373 477,277 577,273 133,143 -261,037 -1279,366 261,207 669,152 456,999 585,385 -2603,410 -1097,356 261,207 691,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456,999 585,385 -2603,410 261,152 456	2	261.207	590.415	368.992	376.419	-2659.609		48.834
261,207 619,488 593,587 478.65 1-263,202 1-146,203 261,207 645,610 416,609 480,902 1-2631,031 1-340,650 261,207 657,781 477.517 507,037 1-2634,035 1-379,366 261,207 669,373 47,571 533,143 1-261,708 1-1218,401 261,207 669,373 47,463 559,264 1-261,027 1-131,36 261,207 661,152 456,999 585,385 1-2603,410 1-1097,356	261,207 619,488 593.557 478.651 -265.8208 -1464.239 261,207 645.610 416.609 480.902 -2631.031 -140.250 261,207 663.716 477.517 507.23 -2654.035 -1379.366 261,207 663.73 477.57 507.23 -2654.035 -1279.366 261,207 660,489 447.463 559.264 -2610.223 -1157.736 261,207 691,152 456.999 585.385 -2603.410 -1097.356	261,207 619,488 593.55 478.61 -263.82.08 -1464.239 261,207 645.610 416.609 480.902 -2631.031 -140.650 261,207 663.73 47.571 571.23 -263.433 -1177.346 261,207 660,489 447.463 559.264 -2610.223 -1157.736 261,207 691,152 456.999 585.385 -2603.410 -1097.356	261,207 615,488 535.55 478.61 -265.82.08 -1464.239 261,207 645.610 416.609 480.902 -2651.031 -1340.650 261,207 663-73 475.71 577.73 -2654.035 -1279.366 261,207 663-73 475.71 577.73 -2671.038 -1279.366 261,207 660,489 447.463 559.264 -2610.223 -1157.736 261,207 691,152 456.999 585.385 -2603.410 -1097.356	261,207 619,488 593,587 478,61 -263,820 261,207 645,610 416,609 480,902 -2631,031 -1340,550 261,207 663,73 47,571 533,143 -261,708 -1177,36 261,207 660,489 447,463 559,264 -2610,223 -1187,736 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261,207 615,486 515.57 47.81 -265.82.08 -1464.299 21.207 645.610 416.609 480.902 -2651.031 -1340.650 261.207 665.716 47.517 507.207 -2651.031 -1340.650 261.207 665.716 47.577 507.21 -265.4035 -1279.366 261.207 665.716 47.577 507.214 -2617.058 -1279.366 261.207 660.459 447.463 559.264 -2610.223 -1157.736 261.207 691.152 456.999 585.385 -2603.410 -1097.356	0	261.207	605.345	381.712	402.540	-2652.376		44,300
261.207 645.610 416.609 480.902 -2631.031 -1340.650 261.207 667.31 477.571 507.032 -2624.035 -1279.366 261.207 669.373 477.571 533.143 -2617.098 -1218.401 261.207 669.373 477.571 533.143 -2617.098 -1218.401 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261,207 645,610 416,609 480,902 -2631,031 -1340,650 261,207 657,761 477,297 507,023 -2634,035 -1279,365 261,207 669,373 477,571 533,143 -261,709 -1218,401 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261.207 645.610 416.609 480.902 -2631.031 -1340.650 261.207 667.761 477.571 507.03 -2624.035 -1279.366 261.207 680.489 447.463 559.264 -2610.223 -1127.736 261.207 691.152 456.999 585.385 -2603.410 -1097.336	261.207 645.610 416.609 480.902 -2631.031 -1340.650 261.207 657.761 477.571 507.03 -2654.035 -1279.365 261.207 669.373 447.463 559.264 -2617.058 -1218.40 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261.207 645.610 416.609 480.902 -2631.031 -1340.650 261.207 657.761 477.571 507.03 -2654.035 -1279.365 261.207 660.439 447.571 533.149 -2617.038 -1218.401 261.207 660.489 447.463 559.264 -2610.223 -1157.736 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261.207 645.610 416.609 480.902 -2631.031 -1340.650 261.207 667.761 477.571 507.03 -2624.035 -1279.366 261.207 669.373 447.463 559.264 -2617.038 -1218.401 261.207 691.152 456.999 585.385 -2603.410 -1097.356	2 2	261.207	619.468	393.857 405.475	454.781	-2638.086		36.255
261,207 657.761 477.297 507.023 -2.624.035 -1.279.366 261,207 669.313 437.571 533,143 -2.617.298 -1.1218.401 261,207 650,489 447,463 559.264 -2.610.223 -1157.736 261,207 691,152 456,999 585.385 -2.603.410 -1.097.356	261.207 657.761 477.297 507.023 -2624.035 -1279.366 261.207 669.373 457.571 533.43 -2617.038 -1218.401 261.207 6691.152 456.999 585.385 -2603.410 -1097.356	261,207 657,761 427,297 507,023 -2624,035 -1279,366 261,207 660,489 447,463 539,264 -2610,227 261,207 691,152 456,999 585,385 -2603,410 -1097,356	26,207 657.76 477.27 507.023 - 1279.366 26,207 669.313 47.511 2 - 2610.223 - 1187.316 26,207 691.132 456.999 585.385 - 2603.410 - 1097.336 26,207 691.132 456.999 585.385 - 2603.410 - 1097.336	261,207 657,761 427,297 507,023 -2624,035 -1279,366 261,207 660,489 471,463 539,264 -2610,229 -1187,36 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261,207 657,761 427,297 557,023 - 1279,366 261,207 659,315 437,521 513,143 - 2617,298 261,207 691,152 456,999 585,385 - 2603,410 - 1097,356 261,207 691,152 456,999 585,385 - 2603,410 - 1097,356	2	261.207	645.610	416.609		-2631.031		33.347
261,207 669,373 471,571 533,143 -2617,058 -1,218,401 261,207 680,489 447,463 559,264 -2610,223 -1157,736 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261,207 669-373 437-371 533.143 -2617.098 -1218,401 261,207 680,439 447,463 559,264 -2610,223 -1157,736 261,207 691,152 456,999 585,385 -2603,410 -1097,336	261.207 669.373 473.511 533.143 -2610.208 261.207 6691.152 456.999 585.385 -2603.410 -1097.356 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261,207 669,373 437,451 533,143 -2617,038 -1218,401 261,207 6691,152 456,999 585,385 -2603,410 -1097,356 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261,207 669,373 471,451 533,143 -2610,208 -118,401 261,207 660,152 456,999 585,385 -2603,410 -1097,356 261,207 691,152 456,999 585,385 -2603,410 -1097,356	261.207 669.33 437.511 533.143 -2610.208 261.207 6691.152 456.999 585.385 -2603.410 -1097.356	2	261.207	657.761	427.297		-2624.035	-1279,366	30.376
261.207 680,489 447.463 559.264 -2610.223 -1157.736 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261.207 680,489 447.463 559.264 -2610.223 -1157.736 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261.207 680,489 447.463 559.264 -2610.223 -1157.736 261.207 691.152 456.999 585.385 -2603.410 -1097.356	261.207 680.489 447.463 559.264 - 2610.223 - 1157.736 261.207 691.152 456.999 585.385 - 2603.410 - 1097.356	261.207 680.489 447.463 559.264 - 2610.223 - 1157.736 261.207 691.152 456.999 585.385 - 2603.410 - 1097.356	261.207 680,489 447.463 559.264 - 2610.223 - 1157.736 261.207 691.152 456.999 585.385 - 2603.410 - 1097.356	2	261.207	669.373	437.571		-2617.098	-1218.401	17.671
OCC1601 - 0150003 - 00C005 - 160005 - 771100 - 107103	OCC.1901 - UPAGOOA - COC.400 - 701.190 - 104.100	OCCION DISCORP GOCCOS ACCION ACCIONAL	OCCION DISCORD GOCGO ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION ACTIO	OCCION COCCOS ACCION ACCION ACCIONAL	OCCION COCCOS ACCION ACCION ACCIONAL	2 2	261.207	680.489	447.463		-2610.223	-1157.736	25 197
						2	707.102	691.152	456.999		-2603.410	-1097.356	22.928

CURRENT: March 1978

Standard State Pressure =  $p^* = 0.1$  MPa

k l·mol-

Enthalpy Reference Temperature = T, = 29&15 K

J.K-'mol-'

log Kr

Ş Q

 $\Delta_r H$ 

 $H^{\bullet}-H^{\bullet}(T_{\bullet})$ 

 $S^{\bullet} - [G^{\bullet} - H^{\bullet}(T_{\bullet})]T$ 

ť

7,8

200 100 200 200 28.15

110.458

300 400 500 500 600 1000 1100 1200 1276,000 1300 1445,000 1500 1500 1500 1500 1600 170

9.972 8.262

-248.179 -221.426

-601.115

C, LAMBDA MAXIMUM TRANSITION

98.962 98.962 103 718

156.162

233.718 237.411 258,392

211 921 211.939

-292.653

-425.884 -614.002

-- CRYSTAL <--> LIQUID

-195.256

-584.076

125.559

166.498 177.691

253.390

133.888 133.888

6.799 5.536 4.435 3.469 2.616

-169.572 -144.343 -119.542 -95.144 -71.126

-576.793 -569.524 -562.270 -555.029 -547.802

146.312 159.700 173.089 186.478

267.033 275.150 282.802 290.041 296.909

62.116 61.720 45.722 35.946 29.405 24.723 21.210 118.415 15.925 13.897

-337.761 -31.319 -324.838 -317.282

-376.166 -376.619 -376.704 -429.655 -428.077

8.512 17.017 25.668 34.466 43.411 52.491 61.700 71.581 84.771

155.522 169.081 181.023 191.717 201.418

88.701 90 165 91 337 92.843

-354.552 -354.480 -350.129 -344.086

-366.093 -373.575 -375.200

-366.100

CRYSTAL

Sodium Sulfide (Na<sub>2</sub>S)

0-°H\*\*  $\Delta_t H^{\circ}(0 \text{ K}) = \text{Unknown}$ Λ<sub>tor</sub>H° = [19.246 ± 4.2] kJ·mol<sup>-1</sup>  $\Delta_{e}H^{\circ}(298.15 \text{ K}) = -366.10 \pm 12.6 \text{ kJ} \cdot \text{mol}^{-1}$  $S^{\circ}(298.15 \text{ K}) = 96.232 \pm 16.7 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$  $f_{rs} = [1276 \pm 20 \text{ K}] \text{ (lambda transition)}$ Ths = 1445 ± 10 K

**Enthalpy of Formation** 

We adopt the average value,  $\Delta_t H^0(298.15 \text{ K}) = -87.5 \text{ kcal-mol}^{-1}$ , derived from the experimental results summarized below.

Source	Reaction	Δ <sub>t</sub> H°(298.15 K), kcal·mol <sup>-1</sup>
- "	Δ <sub>sta</sub> H° Na <sub>2</sub> S(cr) and Na(cr), Δ <sub>a</sub> H° NaOH(aq) + H <sub>2</sub> S(aq)	-88.2
	Na (in NH1) + S(cr) = Na-S(cr)	-87.0
•	H,SO <sub>4</sub> (aq, 1100 H,O) + Na <sub>2</sub> S(cr) = Na <sub>2</sub> SO <sub>4</sub> (soln.) + H <sub>2</sub> S(g)	-85.1*
* The author's value	* The author's value of $-84.35 \pm 0.9 \text{ kcal·mol}^{-1}$ is corrected for newer values for $\Delta_i H^0$ (298 15 K) of Na <sub>2</sub> SO <sub>4</sub> (c, V) and H.S(p) 3.11	Δ <sub>t</sub> H°(298 15 K) of Na <sub>2</sub> SO <sub>4</sub> (c, V)
and 1120 6).		

The adopted value is reasonably consistent with  $-86.6 \pm 1$  kcal-mol<sup>-1</sup> calculated from the 2nd law analysis of Uusitalo's equilibrium data<sup>10</sup> described in the following section

## Heat Capacity and Entropy

The heat capacity is based on the drop calorimetry of May<sup>6</sup> (400-1500 K). The pre-melt S-shaped enthalpy curve is reinterpreted as incorporating a lambda transition in view of the enthalpy measurements on K2S by Dworkin and Bredig and the occurrence of lambda transitions in other materials having the fluorite or anti flourite type of structure. The adopted heat capacity shows the maximum of the lambda transition at 50.65 cal·K<sup>-1</sup>-mol<sup>-T</sup> and 1276 K. The heat capacity then falls to a constant value of 32 cal·K<sup>-1</sup>-mol<sup>-1</sup> at 1420 K. This interpretation along with the adopted melting point, heat of melting, and liquid heat capacity (22 cal·K<sup>-1</sup>-mol<sup>-1</sup>, leads to an enthalpy of the

May, (648-656 K) and Uusitalo,<sup>10</sup> (462-763 K) have measured equilibrium pressures for the reaction Na<sub>2</sub>SO<sub>4</sub>(cr) + 2 CO<sub>4</sub>(g) and have derived S°(Na<sub>2</sub>S, cr, 298.15 K) = 18.6 and 18.5 cal·K<sup>-1</sup>·mol<sup>-1</sup>. These derivations are open to question because of the uncertainty of the crystalline form of Na<sub>2</sub>SO<sub>4</sub> used in the reaction (forward direction) or resulting from the reaction (reverse direction). Five crystalline forms of Na<sub>2</sub>SO<sub>4</sub> have been identified. <sup>11</sup> 2 S'(298.15 K) for form V, stable at room temperature, has erroneously been used to derive S'(Na,S, cr, 298.15 K) rather than S'(298.15 K) for form I which is the form stable at the equilibrium measurement temperature. Furthermore, Unstialo to used charcoal which probably deviates from graphite, the standard reference state. Our 2nd law treatment of Uusitalo's data10 with auxiliary data for Na,SO.(cr. I) and Clgraphite)," which is still questionable, leads to S'(Na,S. cr. liquid consistent with May's measurement.

May, 6 (648-656 K) and Uusitalo, 10 (462-763 K) have measured

298.15 K) = 23.2 cal·K<sup>-1</sup>·mol<sup>-1</sup>. The agreement of this derivation with the estimate below is almost surely fortuitous. Kubaschewski et. al.<sup>13</sup> have estimated the entropy as 23.5 ± 2.5 cal·K<sup>-1</sup>·mol<sup>-1</sup>. Voronin s<sup>14</sup> estimate is 21.6 cal·K<sup>-1</sup>mol<sup>-1</sup>. The summation of Kelley's additive entropy constants<sup>15</sup> gives 23.0 cal·K<sup>-1</sup>·mol<sup>-1</sup>. We adopt S°(Na<sub>2</sub>S, cr, 298.15 K) = 23.0 ± 4 cal·K<sup>-1</sup>·mol<sup>-1</sup>.

### Fusion Data

Tegman<sup>16</sup> indicated that many of the early measurements of the melting point of Na<sub>5</sub>S were made on impure brown material. Several measurements on white or light pink material are in reasonable agreement: in °C, 1200,<sup>17</sup> 1180 ± 10,<sup>18</sup> 1180, <sup>19</sup> 1160 ± 5,<sup>20,21</sup> 1175 ± 10,<sup>22</sup> and 1168 ± 10.2 We adopt a melting point of 1445 ± 10 K (1172 ± 10°C). This is consistent with May's enthalpy measurements.

In an examination of May's enthalpy data, Wagman<sup>24</sup> has used an entropy of fusion of 3.21 cal-K<sup>-1</sup> mol<sup>-1</sup>—the entropy of fusion of K<sub>2</sub>S is 3.16 cal·K<sup>-1</sup>·mol<sup>-1</sup> —which leads to an entalipy of fusion of 4.8 kcal·mol<sup>-1</sup> at the adopted melting point of 1445 K. From the Na<sub>2</sub>S-S phase diagram work of Rosen and Tegman,<sup>23</sup> Wagman<sup>24</sup> calculates an average enthalpy of fusion of 5.7 kcal·mol<sup>-1</sup> and recommends Δ<sub>10s</sub>H° = 5 ± 1 kcal·mol-1. We adopt Δ<sub>10a</sub>H° = 4.8 kcal·mol-1 to remain consistent with our incorporation of a lambda transition in the evaluation of May's enthalpy measurements.

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Continued on page 1673

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Na<sub>2</sub>S<sub>1</sub>(I)

Sodium Sulfide (Na<sub>2</sub>S)

000											CLIVI							
Na <sub>2</sub> S <sub>1</sub> (I)	- 0.1 MPa	log K <sub>r</sub>	56.371	41.858 33.183 27.376			13.535 11.805 9.879 8.238	UID GIV	5.592 4.512 3.557	1.947	1.262 0.644 -0.430	-1.329 -1.725 -2.091	-2430 -2744				·	CURRENT: March 1978
	Standard State Pressure = $p^* = 0.1 \text{ MPa}$ kJ·mol <sup>-1</sup>	•₽'€	-321.761	-320.539 -317.638 -314.455	-311.156 -307.817 -303.404 S <> LIQU	TRANSITION -294.144	-285.039 -271.189 -245.872 -220.797	AL <> LIQUID -195.945	-171.301 -146.849 -122.579	-98.480 -74.541	-50.753 -27.110 -3.604 19.772	66.157 89.176 112.087	157.600					CURREN
		, A.H.	-323.940	-331,415 -333,040 -334,006	-334.459 -334.544 -387.495 GLASS		-384.416 -576.519 -573.374 -570.245	CRYSTAL -567,131	-564.031 -560.947 -557.877	-554.820 -551.777	- 548.747 - 545.729 - 542.725 - 539.735	-533,800 -530,858 -527,934	- 525.032 - 522.153					
	4	H*-H*(T,)	0.	8.512 17.017 25.668	34.466 43.411 52.491 58.923	58.923	70.888 80.093 89.298 98.503	102.645	116.912 126.117 135.322	144 <i>527</i> 153.732	172.141 172.141 181.346 190.551	208.960 218.165 227.370	236.575 245.780					
	Enthalpy Reference Temperature = 7, = 298.15 K	~[G*~#'(T,)]/T	127.656	130.925 137.143 144.166	151.268 158.184 164.818 169.278	169.278	177.155 182.864 188.285 193.438	195.675	203.019 207.483 211.752	215.841 219.763	223.531 227.156 230.647 234.015	240.409 243.451 246.397	249.253 252.024					
Na <sub>2</sub> S)	emperature	رو ه	127.656	152.205 171.177 186.947	200,506 212,447 223,141 230,023	230.023	241.599 249.608 256.976 263.798	266.710	276.089 281.669 286.930	291.907 296.629	301.120 305.402 309.494 313.411	320.779 324.253 327.600	333,951 333,951					0961
Sodium Sulfide (Na <sub>2</sub> S)	Reference T	ů		84.308 85.772 87.236			22.048 22.048 20.048 20.048				92.048 92.048 92.048							PREVIOUS: December 1960
Sodium	Enthalpy	**	888 <u>8</u> 8	\$ 8 8 8 8	700 800 900 970.010	0.079	5258 8888	1445,000	0021 1700 1800	200 200 200	2520 2520 2520 250 250 250 250 250 250 2	2600 2700 2800	88	·				PREVIOU
$M_{\rm r} = 78.03954$	$\Delta_t H^{\circ}(298.15 \text{ K}) = [-323.940] \text{ kJ·mol}^{-1}$ $\Delta_{tos} H^{\circ} = [19.246 \pm 4.2] \text{ kJ·mol}^{-1}$	$H^{\circ}$ and the difference in enthalby. $H^{\circ}(1445\mathrm{K})$		is assumen to oc constant acove the assumen glas y of formation.	ubstances," Supplement, Springer Verlag, Berlii													
רומחום	¹-mol <sup>-</sup> ¹	calculated from ∆ <sub>f</sub> H°(Na <sub>2</sub> S, cr, 298.15 K) by adding ∆ <sub>l∞</sub>	H°(298.15 K), between the crystal and liquid.  Heat Capacity and Entropy The hear convenience of Trail V - 1 mol 1 is from the actions of Dairs and 1 mol 1 is from the actions of the second of the s	The real experts of 24 car. While is some accountable to the crystal. The entropy at 298.15 K is calculated in a manner similar to that used for the crystal.  The entropy at 298.15 K is calculated in a manner similar to that used for the enthalpy of formation.	Reference I. Barin, D. Knacke, and O. Kubaschewski, "Thermochemical Properties of Inorganic Substances," Supplement, Springer Verlag, Berlin,													
Sodium Suilide (Na <sub>2</sub> S)	S°(298.15 K) = [127.656] J K <sup>-1</sup> ·mol <sup>-1</sup> T <sub>lm</sub> = 1445 ± 10 K	Enthalpy of Formation $\Delta_H^{*}(Na_2S, 1, 298.15 \text{ K})$ is $\epsilon$	H*(298.15 K), between the crys Heat Capacity and Entropy The hear constitute 22 col V	transition at 970 K. Below the The entropy at 298.15 K is c	Reference  1. Barín, D. Knacke, and O. K.	(1977).												

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Na <sub>2</sub> S)
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Disodium

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M<sub>r</sub> = 78.03954 Sodium Sulfide (Na<sub>2</sub>S)

Na<sub>2</sub>S<sub>1</sub>(cr,I)

K crystal K liquid	
<b>4 X X</b>	:
145 145 145 145 145	
2 2	
1276 Ibove	

<sup>\*</sup>There is a lambda transition at 1276 K.

	T THE PARTY TO	emperature = I.K ='mol='	Enthalpy Reference Temperature = T, = 298.15 K 1.K -!mol-1	4	Standard Sta k I.mol <sup>-1</sup>	Standard State Pressure = $p^* = 0.1 \text{ MPa}$ k I.mol <sup>-1</sup>	. = 0.1 MF2
7/K	ប	S -[G	-[G*-H*(T,)]/T	$H^{\bullet}-H^{\bullet}(T_{r})$	Δ.Η.	$\Phi_G$	log K,
-88							
32 E	8	26.00	66.30	d	WI 335	639.636	Š
C1.067	10070	777.90	96 234	0.153	-366.003	-354.480	61.73
88	84.308 85.772	120.780	99.501 105.719	8.512 17.017	-373.575	-350.129	45.722 35.946
8	87.236	155.522	112.742	25.668	-376.166	-337.761	29.405
88	88.701	169.081	119.844	34.466	-376.619	-331,319	24.723
885	91.337	191.717	133.394	52.491	-429.655	-317.282	18.415
8	110.458	210.823	145.749	71.581	-425.884	-292.653	13.897
1200		222.269	129.161	84.771	-614.002	-Z/3.864	12008
1276.000	211.939	233.718	156.162	, 28.362 8.362	<u>ح</u> ا	C, LAMBLA MAAIMUM TRANSITION	- WOR
98	187.652	237.411	157.629	103.718	-601.115	-248.179	9.972
1445.000		253.390	166.498	125.559	(N)	TAL <> LIQUID	One
1500		270.710	170.498	0.8.4.5 0.8.68	121 295-	- 195 945	6871
8	92 048	776 089	176.668	150 073	-564.031	102 121 -	\$ 59
<u> </u>	92.048	281.669	182.682	168.278	-560.947	-146.849	4512
88	92.048	286.931	188,329	177.482	-557.877	-122.579	3.557
88	92.048 92.048	296.629	198.683	195.892	-551.777	-74.541	1.947
2100	92.048	301.120	203.455	205.097	-548.747	-50.753	1.262
2200	22.048	305.402	207.992	214,302	-545.729	-27.110	0.00 4.00 4.00 4.00 4.00
2400	92.048	313.411	216.448	232.711	-539.735	19.772	-0.430
2500	92.048	317.169	220.402	241.916	-536.760	43.024	680-
2002	92.048	320.779	224.194	260 326	-530.858	80.176	-1.72
2800	92.048	327.600	231,339	269.530	-527 934	112.087	-2091
2300	92.0 <del>4</del> 8	330.830	237.715	287.940	-522.153	157,600	-2430
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Refer to the individual tables for details.

Sodium Sulfide, Beta (Na<sub>2</sub>S<sub>2</sub>)

 $M_{\rm c} = 110.09954$ 

∆<sub>m</sub>H° = Unkn  $\Delta_{tus}H^{\circ} = [18.91 \pm 1.7] \text{ kJ·m}$  $\Delta_t H^{\circ}(298.15 \text{ K}) = -397.1 \pm 8 \text{ kJ} \cdot \text{m}$ ΔpH°(0 K) - Unkr  $S^{\circ}(298.15 \text{ K}) = 150.6 \pm 24 \text{ J·K}^{-1} \cdot \text{mol}^{-1}$ r. = 423 - 523 K Tha = 753 ± 5 K

Sodium Sulfide, Beta (B-Na<sub>2</sub>S<sub>2</sub>)

to form Na<sub>2</sub>S<sub>2</sub>(cr) in liquid ammonia. Letoffe et al.2 derived A<sub>2</sub>H°(Na<sub>2</sub>S<sub>2</sub>, cr, 298.15 K) = -92.7 kcal·mol<sup>-1</sup> from the enthalpy of reaction NasSi(cr) and HsSO4(1100 HrO) to form NasSO4(acid solution), HsS(g), and S(cr). With newer values for the enthalpies of formation H<sub>2</sub>SO<sub>4</sub>(1100 H<sub>2</sub>O), 3 Na<sub>2</sub>SO<sub>4</sub>(cr), 4 and H<sub>2</sub>S(g),4 the value of Letoffe et al. corrects to -93.6 kcal mol<sup>-1</sup>. We adopt the average of Δ<sub>t</sub>H\*(Na Kraus and Ridderhof' determined Δ<sub>t</sub>H\*(Na<sub>2</sub>S<sub>2</sub>, cr, 298.15 K) = -96.2 kcal-mol<sup>-1</sup> from the enthalpy of reaction of Na(in NH<sub>3</sub>) and S cr, 298.15 K) = -94.9 ± 2 kcal·mol<sup>-1</sup> Enthalpy of Formation

# Heat Capacity and Entropy

The heat capacities are those estimated by Barin et al. 3

Na<sub>2</sub>S(I) + 1/2 S<sub>4</sub>G<sub>3</sub> = Na<sub>2</sub>S<sub>4</sub>(I); AS = -9.00 cal·K<sup>-1</sup>·mol<sup>-1</sup> and Na<sub>2</sub>S<sub>4</sub>(r) = Na<sub>2</sub>S<sub>2</sub>(I); AS = 4.43 cal·K<sup>-1</sup>·mol<sup>-1</sup>. It had been assumed the values are independent of temperature, but for our calculation of S'(Na<sub>2</sub>S<sub>2</sub>, cr. 298.15 K) we have used a temperature of 900 K, near with other measurements from the literature to form an extensive data set covering a composition range of Na<sub>2</sub>S<sub>1,3</sub>-Na<sub>2</sub>S<sub>40</sub> and a tempera of the derivation is not clear. Tegman has measured the vapor pressure of sulfur over sodium polysulfide melts which he has supplement range of 523-1273 K. His analysis of this data set via computer modeling gave, among other things, the entropy changes for the reactive mid-point of the experimental range. With auxiliary data for Na<sub>3</sub>S(I) and S<sub>7</sub>(g)\* and S°(900 K)-S°(298.15 K) for Na<sub>2</sub>S<sub>7</sub>(cr) from a prelimin Mills gives \$'(298.15 K) = 21.4 ± 5 cal·K-1 mol-1 derived from the dissociation pressure measurements of Teder and Tiberg; the table, we derive S'(Na<sub>2</sub>S<sub>2</sub>, cr, 298.15 K) = 42.1 cal·K<sup>-1</sup>·mol<sup>-1</sup>

A graphical comparison of the standard entropies of K,S(cr), S,K,S<sub>3</sub>(cr), W,K,S<sub>3</sub>(cr), and Na<sub>2</sub>S(cr)<sup>3</sup> indicates that 21.4 cal·K<sup>-1</sup> mol-probably too low and 42.1 cal·K<sup>-1</sup> mol<sup>-1</sup> is probably too high for S'(Na<sub>2</sub>S<sub>2</sub>, cr, 298.15 K). We adopt S'(Na<sub>2</sub>S<sub>2</sub>, cr, 298.15 K) = 36 cal-K '-mol-

Transition and Fusion Data

The existence of two forms of Na<sub>3</sub>S<sub>2</sub> is well established,<sup>2-13</sup> but the  $\alpha$ - $\beta$  transition is sluggish. Some indicate the transition is irreversible while others find it reversible.<sup>13</sup> On heating the  $\alpha$ -form, it changes to the  $\beta$ -form in the 150-250° range. <sup>12,13</sup> (423-523 K). The melting point of the  $\beta$ -form has been determined as 473.9, <sup>14</sup> ~490, <sup>9</sup> 482  $\pm$  2, <sup>13</sup> 478  $\pm$  5, <sup>16</sup> 475, <sup>17</sup> 475, <sup>13</sup> and 484°C. <sup>18</sup> We ad

480 ± 5°C (753 ± 5 K).

The adopted  $\Delta_{los}H^{\circ} = 4.52$  kcal·mol<sup>-1</sup> is taken from the tabulation of Barin et al., <sup>5</sup> referenced to private communications from Mills, is not known if this is a measured or an estimated value. Tegman derived a  $\Delta_{los}H^{\circ} = 4.62$  kcal·mol<sup>-1</sup> from liquid-vapor and solid-liq equilibria data via complex computer modeling. This indirectly calculated figure apparently corresponds to an average temperature approximately 1000 K so that \$\Delta\_{ha}H^0(753 K) ~4.8 kcal-mol^-1; this value tends to confirm the adopted value and is used in estimating uncertainty of ±0.4 kcal·mol<sup>-1</sup>.

<sup>1</sup>C. A. Kraus and J. A. Ridderhof, J. Amer. Chem. Soc. 56, 79 (1934).

<sup>1</sup>J. M. Letoffe, J. Thourey, G. Perachon, and J. Bousquet, Bull. Soc. Chim. Fr. 1976, 424 (1976).

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M. Letoffe, Doctorate Thesis, Universite Claude Bernard-Lyon I. (1975).

	Enthalos D	T. C.		Englander Defender T				
nol-lou		T AND THE P	J.K.'mol.'.	1, = 298.15	4	Standard State	Standard State Pressure = $p^* = 0.1 \text{ MPa}$ $k \text{ I-mol}^{-1}$	. = 0.1 MPa
nown	7/K	ដ	S* -[G	-[G*-H*(T,)]T	$H^{\bullet}-H^{\bullet}(T_i)$	Δ,Η*	<b>₽</b> C•	log Kr
IO:	°888							
(t)	298.15	98.625	150.624	150.624	ó	-397.062	-107 173	mc 89
o Ec	8	98.726	151,234	150.626	0.183	-397.067	-392.142	68.278
la <sub>2</sub> S <sub>2</sub> ,	\$ <b>8</b>	109.872	204.272	154.263	21.042	-407.354	-389.839	\$0.908 40.229
	88	115,445	224.796	170.949	32.308	-412.640	-379.752	33.060
	753.000		251.950	184.720	50.624	BETA	-3/4.190 <> 1.0011D	
ļ	88	126.591	259.534	188.894	56.512	-413.275	-368.593	
il Pa	1000	137.737	288.979	206.035	82.945	-518,625	-343.578	20.946
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Sodium Sulfide, Beta (Na<sub>2</sub>S<sub>2</sub>)

PREVIOUS

CURRENT: December 1983

$M_r = 110.09954$ Sodium Sulfide (Na <sub>2</sub> S <sub>2</sub> )	Sodium S	) apılını	Na <sub>2</sub> S <sub>2</sub> )					Na <sub>2</sub> S <sub>2</sub> (I)
$\Delta_t H^{\circ}(298.15 \text{ K}) = [-380.114] \text{ kJ·mol}^{-1}$	Enthalpy R	leference T	emperature	Enthalpy Reference Temperature = T, = 298.15 K J.KImol-1		Standard State Pressure = p° = 0.1 MPa kJ·mol <sup>-1</sup>	e Pressure = p	° 0.1 MPa
	ΤÆ	೮	S[G.	$S^* - [G^* - H^*(T_i)]T$	$H^{\circ}-H^{\circ}(T_t)$	$\Delta_{\rm r}H^{ullet}$	$\Phi'G$	log Kr
ce in enthalpy, H°(753 K)-H°(298.15 K),	2500 o							
ned to be constant above an assumed glass	298.15 300 400	98.625 98.726 104.299	172.365	172.365 172.367 176.305	0 0 183 10.334	-380.114 -380.119 -390.405	-381 707 -381 717 -381 587	66.873 66.463 49.830
	800.000		226.012	183.928	21.042	GLAS	GLASS <> LIQUID TRANSITION	
	85		248.745 267.965	192.894	33.511 45.979	-394.489 -394.619	-375.971	32.731
-	753.000 800 900	124.683 124.683 124.683	277.065 284.614 299.299	207.228 211.555 220.504	52.587 58.447 70.916	BETA -394.391 -500.211	BETA <> LIQUID -394.391 -369.773 -500.211 -364.559	TD 24.144 21.158
s, Supplement, Springer-Verlag, Berlin,	1200	124.683 124.683 124.683	312.436 324.320 335.168 345.148	229.052 237.181 244.901 252.234	83.384 95.852 108.321 120.789	-497.229 -494.321 -685.047 -680.541	-349.647 -335.030 -315.794 -285.206	18.264 15.909 13.746 11.460
	985	124.683	362.991	265.840	145.726	-671.622	-225.040	7.837
	Š						Hisagi C	9
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Sodium Sulfide (Na<sub>2</sub>S<sub>2</sub>)

 $S^{\circ}(298.15 \text{ K}) = [172.365] \text{ J·K}^{-1} \cdot \text{mol}^{-1}$   $T_{\text{tas}} = 753 \pm 5 \text{ K}$ 

Enthalpy of Formation  $\Delta_H^2(Na_5S, 1, 298 15 \, K)$  is calculated from that of the crystal by adding  $\Delta_{los}H^o$  and the difference in enthalpy,  $H^o(753 \, K) - H^o(166)$  between the crystal and liquid.

Heat Capacity and Entropy

The heat capacity of 29.8 cal·K<sup>-1</sup>·mol<sup>-1</sup> is from the estimated value of Barin *et al*. <sup>1</sup> and is assumed to be constant above an assurantion at 500 K. Below the glass transition, the heat capacity is that of the crystal.

The entropy is calculated in a manner analogous to that used for the enthalpy of formation.

**Fusion Data** 

Refer to the B-crystal table for details.

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Na<sub>2</sub>S<sub>2</sub>(cr,1)

Refer to the individual tables for details.

298 to 753 K crystal, beta above 753 K liquid

- 0.1 MPa	log K,		68.707 68.278 50.908	33.060	1	24.144 21.158 18.264	15.909 13.746 11.460 9.513 7.837	
te Pressure = p*	₽.0		-392.173 -392.142 -389.839	-379.752 -379.752 -374.196	BETA <> LIQUID TRANSITION	-364.559 -364.559 -349.647	-335.030 -315.794 -285.206 -254.963 -225.040	
Standard State Pressure	1		-397.062 -397.067 -407.354	~410.704 -412.640 -413.415	BETA	-394.391 -500.211 -497.229	-494.321 -685.047 -680.541 -676.066 -671.622	
×	$H^{\bullet}-H^{\bullet}(T_i)$		0. 0.183 10.334	32,308 44,131	50.624	75.395 87.864 100.332	112,800 125,269 137,737 150,205 162,674	
Enthalpy Reference Temperature = T, = 298.15 K	-[G*-H*(T,)]T		150.624 150.626 154.565	170.949 179.966	184.720	190,370 201,673 212,104	221.774 230.178 239.197 247.099 254.542	
emperature	S -[G		150.624	224.796 224.796 243.011	251.950 277.065	284.614 299.299 312.436	324,320 335,168 345,148 354,388 362,991	
eference T	ະ		98.625 98.726 104.299	115.445 115.445 121.018		124.683 124.683 124.683	124.683 124.683 124.683 124.683	
Enthalpy Re	7.K	0 5 8 5 5 0 5 0 5 5 5 5 5 5 5 5 5 5 5 5	298.15 300 400	888	753.000	888	1200 1300 1400 1500	

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