Equations and Diagrams

Summary: Open energy and entropy balance equations ($\Delta = \text{out - in}$)

General Equations of Balance	Balance Equations for Steady-Flow Processes	Balance Equations for Single-Stream Steady-Flow Processes			
$\frac{dm_{\rm cv}}{dt} + \Delta (\dot{m})_{\rm fs} = 0 \tag{2.25}$	$\Delta \left(\dot{m} \right)_{\rm fs} = 0 \tag{7.1}$	$\dot{m}_1 = \dot{m}_2 = \dot{m}$ (7.2)			
$\frac{d(mU)_{\text{cv}}}{dt} + \Delta \left[\left(H + \frac{1}{2} u^2 + zg \right) \dot{m} \right]_{\text{fs}} = \dot{Q} + \dot{W} $ (2.27)	$\Delta \left[\left(H + \frac{1}{2} u^2 + zg \right) \dot{m} \right]_{\text{fs}} = \dot{Q} + \dot{W} $ (2.29)	$\Delta H + \frac{\Delta u^2}{2} + g\Delta z = Q + W_s \tag{2.31}$			
$\frac{d(mS)_{cv}}{dt} + \Delta(S\dot{m})_{fs} - \sum_{j} \frac{\dot{Q}_{j}}{T_{\sigma, j}} = \dot{S}_{G} \ge 0$ (5.16)	$\Delta(S\dot{m})_{fs} - \sum_{j} \frac{\dot{Q}_{j}}{T_{\sigma,j}} = \dot{S}_{G} \ge 0 $ (5.17)	$\Delta S - \sum_{j} \frac{Q_j}{T_{\sigma,j}} = S_G \ge 0 \tag{5.18}$			

SVNAS Chemical Engineering Thermodynamics, 8th Edition, New York, 2018

TABLE 1
HFC-134a Saturation Properties—Temperature Table

TEMP.	PRESSURE	VOLUME m³/kg		DENSITY kg/m³			ENTHALPY kJ/kg		ENTF kJ/(k	TEMP.	
°C	kPa (abs)	LIQUID V _f	VAPOR Vg	LIQUID 1/v _f	VAPOR 1/v _g	LIQUID h _f	LATENT h _{fg}	VAPOR h _g	LIQUID Si	VAPOR s _g	°C
-100	0.57	0.0006	25.0000	1580.5	0.040	77.3	259.9	337.2	0.4448	1.9460	-100
<u>–99</u>	0.63	0.0006	22.7273	1577.8	0.044	78.4	259.4	337.8	0.4514	1.9407	<u>-99</u>
-98	0.70	0.0006	20.4082	1575.0	0.049	79.6	258.8	338.4	0.4581	1.9356	-98
–97	0.77	0.0006	18.5185	1572.3	0.054	80.7	258.2	339.0	0.4646	1.9306	– 97
-96	0.86	0.0006	16.9492	1569.5	0.059	81.9	257.7	339.6	0.4711	1.9257	-96
-9 5	0.95	0.0006	15.3846	1566.8	0.065	83.0	257.1	340.1	0.4776	1.9209	-9 5
-94	1.04	0.0006	13.8889	1564.1	0.072	84.2	256.6	340.7	0.4841	1.9161	-94
-93	1.15	0.0006	12.6582	1561.3	0.079	85.3	256.0	341.3	0.4905	1.9115	-93
-92 -91	1.27 1.40	0.0006 0.0006	11.6279 10.6383	1558.6 1555.8	0.086 0.094	86.5 87.6	255.4 254.9	341.9 342.5	0.4968 0.5032	1.9070 1.9025	-92 -91
-90 -89	1.53 1.68	0.0006 0.0006	9.7087 8.9286	1553.1 1550.4	0.103 0.112	88.8 89.9	254.3 253.8	343.1 343.7	0.5095 0.5158	1.8982 1.8939	–90 –89
			8.1967	1547.6	0.112	91.1					
-88 97	1.84	0.0006				92.3	253.2	344.3	0.5220	1.8898	-88 97
–87 –86	2.02 2.20	0.0006 0.0006	7.5188 6.8966	1544.9 1542.1	0.133 0.145	92.3	252.7 252.1	344.9 345.5	0.5282 0.5344	1.8857 1.8817	–87 –86
-85	2.41	0.0006	6.3291	1539.4	0.158	94.6	251.6	346.2	0.5406	1.8778	-85
-84	2.63	0.0007	5.8480	1536.7	0.171	95.7	251.0	346.8	0.5467	1.8739	-84
-83	2.86	0.0007	5.4054	1533.9	0.185	96.9	250.5	347.4	0.5528	1.8702	-83
- 82	3.11	0.0007	4.9751	1531.2	0.201	98.0	249.9	348.0	0.5589	1.8665	-82
-81	3.39	0.0007	4.6083	1528.5	0.217	99.2	249.4	348.6	0.5650	1.8629	-81
-80	3.68	0.0007	4.2553	1525.7	0.235	100.4	248.8	349.2	0.5710	1.8594	-80
-79	3.99	0.0007	3.9526	1523.0	0.253	101.5	248.3	349.8	0.5770	1.8559	-79
-78	4.33	0.0007	3.6630	1520.2	0.273	102.7	247.7	350.4	0.5830	1.8525	-78
-77	4.69	0.0007	3.3898	1517.5	0.295	103.9	247.2	351.1	0.5890	1.8492	-77
-76	5.07	0.0007	3.1546	1514.8	0.317	105.0	246.6	351.7	0.5949	1.846	-76
-75	5.48	0.0007	2.9326	1512.0	0.341	106.2	246.1	352.3	0.6009	1.8428	-75
-74	5.92	0.0007	2.7248	1509.3	0.367	107.4	245.5	352.9	0.6068	1.8397	–74
-73 -70	6.39	0.0007	2.5381	1506.5	0.394	108.6	245.0	353.5	0.6126	1.8366	-73 -70
–72 –71	6.89 7.42	0.0007 0.0007	2.3641 2.2075	1503.8 1501.0	0.423 0.453	109.7 110.9	244.4 243.9	354.2 354.8	0.6185 0.6243	1.8336 1.8307	–72 –71
-7 0	7.98	0.0007	2.0576	1498.3	0.486	112.1	243.3	355.4	0.6302	1.8279	- 70
-69	8.58	0.0007	1.9231	1495.5	0.520	113.3	242.8	356.0	0.6360	1.8251	-69
-68	9.22	0.0007	1.7986	1492.8	0.556	114.5	242.2	356.6	0.6417	1.8223	-68
-67	9.89	0.0007	1.6835	1490.0	0.594	115.6	241.6	357.3	0.6475	1.8196	-67
-66	10.61	0.0007	1.5773	1487.3	0.634	116.8	241.1	357.9	0.6532	1.817	-66
-65	11.37	0.0007	1.4771	1484.5	0.677	118.0	240.5	358.5	0.6590	1.8144	-65
-64	12.18	0.0007	1.3850	1481.8	0.722	119.2	239.9	359.2	0.6647	1.8119	-64
-63	13.03	0.0007	1.3004	1479.0	0.769	120.4	239.4	359.8	0.6704	1.8095	-63
-62	13.93	0.0007	1.2210	1476.3	0.819	121.6	238.8	360.4	0.6760	1.8071	-62
-61	14.88	0.0007	1.1481	1473.5	0.871	122.8	238.2	361.0	0.6817	1.8047	- 61
-60 F0	15.89	0.0007	1.0799	1470.7	0.926	124.0	237.7	361.7	0.6873	1.8024	-60 50
-59 -50	16.95	0.0007	1.0163	1468.0	0.984	125.2	237.1	362.3	0.6929	1.8001	-59 -50
–58 –57	18.07 19.25	0.0007 0.0007	0.9579 0.9025	1465.2 1462.4	1.044 1.108	126.4 127.6	236.5	362.9 363.6	0.6985 0.7041	1.7979 1.7958	–58 –57
-57 -56	20.49	0.0007	0.9025	1452.4	1.175	128.8	236.0 235.4	364.2	0.7041	1.7937	-57 -56
-55	21.80	0.0007	0.8032	1456.9	1.245	130.0	234.8	364.8	0.7152	1.7916	-55
-54	23.17	0.0007	0.7587	1454.1	1.318	131.2	234.2	365.4	0.7208	1.7896	-54
-53	24.62	0.0007	0.7168	1451.3	1.395	132.4	233.6	366.1	0.7263	1.7876	– 53
-52	26.14	0.0007	0.6775	1448.5	1.476	133.7	233.1	366.7	0.7318	1.7857	-52
- 51	27.73	0.0007	0.6410	1445.7	1.560	134.9	232.5	367.3	0.7373	1.7838	-51
-50	29.41	0.0007	0.6068	1442.9	1.648	136.1	231.9	368.0	0.7428	1.7819	-50
-4 9	31.16	0.0007	0.5747	1440.1	1.740	137.3	231.3	368.6	0.7482	1.7801	-4 9
-48	33.00	0.0007	0.5447	1437.3	1.836	138.5	230.7	369.2	0.7537	1.7783	-48
-47	34.93	0.0007	0.5165	1434.5	1.936	139.8	230.1	369.9	0.7591	1.7766	–47
-46	36.95	0.0007	0.4902	1431.6	2.040	141.0	229.5	370.5	0.7645	1.7749	-4 6
-45 44	39.06 41.27	0.0007	0.4653	1428.8	2.149	142.2	228.9	371.1	0.7699	1.7732	-45 44
-44 42	41.27	0.0007	0.4419	1426.0	2.263	143.5	228.3	371.8	0.7753	1.7716	-44 42
-43 -42	43.58 45.99	0.0007 0.0007	0.4198 0.3992	1423.2 1420.3	2.382 2.505	144.7 145.9	227.7 227.1	372.4 373.0	0.7806 0.7860	1.77 1.7685	-43 -42
-42 -41	48.51	0.0007	0.3992	1420.3	2.633	145.9	226.5	373.0 373.7	0.7800	1.767	-42 -41
	10.01	3.3001	0.0700			111.2		5.0.7	0.7010	1.707	

TABLE 2 (continued) HFC-134a Superheated Vapor—Constant Pressure Tables

 $V = Volume \ in \ m^3/kg \qquad H = Enthalpy \ in \ kJ/kg \qquad S = Entropy \ in \ kJ/(kg)(K) \qquad v_s = Velocity \ of \ Sound \ in \ m/sec \\ Cp = Heat \ Capacity \ at \ Constant \ Pressure \ in \ kJ/(kg)(^\circC) \qquad Cp/Cv = Heat \ Capacity \ Ratio \ (Dimensionless)$

TEMP							1	PRESSURE = 2000.00 kPa (abs)						TEMP
°C	V	Н	S	Сp	Cp/Cv	v _s		V	Н	S	Cp	Cp/Cv	V _S	.c
65.22 65.22	0.00098 0.00991	296.6 428.3	1.3113 1.7007	1.7353 1.4544	1.7594 1.5098	314.0 128.6	SATUQ SATVAP	0.00099 0.00931	300.4 428.8	1.3223 1.6991	1.7690 1.5055	1.7844 1.5484	302.2 127.2	67.47 67.47
70	0.01043	435.1	1.7205	1.3658	1.4297	133.3		0.00959	432.5	1.7101	1.4452	1.4943	129.9	70
75 80	0.01092 0.01137	441.7 448.1	1.7398 1.7580	1.3032 1.2587	1.3722 1.3301	137.7 141.5		0.01009 0.01055	439.5 446.1	1.7303 1.7493	1.3600 1.3019	1.4173 1.3638	134.7 138.9	75 80 85 90 95
85 90	0.01179 0.01219	454.3 460.4	1.7755 1.7923	1.2259 1.2011	1.2980 1.2725	145.0 148.3		0.01097 0.01137	452.5 458.8	1.7673 1.7845	1.2601 1.2291	1.3242 1.2936	142.7 146.2	85 90
95 100	0.01257 0.01294	466.4 472.2	1.8086 1.8244	1.1821 1.1674	1.2518 1.2346	151.3 154.1		0.01175 0.01211	464.8 470.8	1.8011 1.8173	1.2055 1.1874	1.2692 1.2493	149.3 152.3	95 100
105 110	0.01329 0.01364	478.0 483.8	1.8399 1.8550	1.1561 1.1475	1.2202	156.7 159.3		0.01246	476.7 482.6	1.8330 1.8483	1.1733 1.1625	1.2327 1.2186	155.1	105 110
115 120	0.01397	489.5 485.2	1.8698 1.8844	1.14/5 1.1409 1.1361	1.2078 1.1971	161.7 164.0		0.01279 0.01312	488.4	1.8633 1.8781	1.1542	1.2066 1.1961	157.7 160.2	115 120
125	0.01429 0.01461	500.9	1.8987	1.1327	1.1877 1.1795	166.2		0.01344 0.01374	494.1 499.8	1.8925	1.1479 1.1433	1.1869	162.6 164.9	125
130 135	0.01492 0.01523	506.5 512.2	1.9129 1.9268	1.1305 1.1293	1.1721 1.1656	168.3 170.4		0.01405 0.01434	505.5 511.2	1.9068 1.9208	1.1401 1.1380	1.1789 1.1717	167.1 169.2	130 135
140 145	0.01553 0.01582	517.8 523.5	1.9405 1.9541	1.1290 1.1293	1.1597 1.1543	172.4 174.3		0.01463 0.01492	516.9 522.6	1.9347 1.9483	1.1369 1.1366	1.1652 1.1594	171.3 173.3	140 145
150 155	0.01611 0.01640	529.1 534.8	1.9676 1.9808	1.1303 1.1319	1.1495 1.1450	176.2 178.0		0.01520 0.01547	528.3 534.0	1.9619 1.9752	1.1370 1.1380	1.1541 1.1493	175.2 177.1	150 155
160 165	0.01668 0.01696	540.5 546.1	1.9940 2.0070	1.1338 1.1362	1.1410 1.1372	179.8 181.5		0.01575 0.01602	539.7 545.4	1.9884 2.0015	1.1395 1.1415	1.1449 1.1409	178.9 180.7	160 165
170	0.01724	551.8	2.0199	1.1389	1.1337	183.2		0.01629	551.1	2.0145	1.1439	1.1372	182.4	170
175 180	0.01752 0.01779	557.5 563.2	2.0327 2.0454	1.1419 1.1452	1.1305 1.1275	184.8 186.5		0.01655 0.01681	556.8 562.6	2.0274 2.0401	1.1466 1.1496	1.1337 1.1305	184.1 185.7	175 180
185 190	0.01806 0.01832	569.0 574.7	2.0580 2.0705	1.1487 1.1524	1.1248 1.1221	188.1 189.6		0.01707 0.01733	568.3 574.1	2.0527 2.0653	1.1528 1.1563	1.1276 1.1248 1.1222	187.4 189.0	185 190
195 200	0.01859 0.01885	580.5 586.3	2.0829 2.0952	1.1563 1.1604	1.1197 1.1174	191.2 192.7		0.01758 0.01784	579.9 585.7	2.0777 2.0900	1.1599 1.1638	1.1222 1.1198	190.5 192.1	195 200
205 210	0.01911 0.01937	592.1 597.9	2.1074 2.1195	1.1645 1.1688	1.1152 1.1132	194.1 195.6		0.01809 0.01834	591.5 597.4	2.1023 2.1145	1.1678 1.1719	1.1175 1.1153	193.6 195.0	200 205 210
215 220	0.01963 0.01989	603.8 609.7	2.1316 2.1436	1.1732 1.1776	1.1113 1.1095	197.0 198.4		0.01858 0.01883	603.2 609.1	2.1265 2.1386	1.1761 1.1804	1.1133 1.1114	196.5 197.9	215 220
				l e									l	
TEMP		= 2200.00 ki			0.70				RE = 2400.00 k	· ` ´		0.0	I	ТЕМР
°C	V	Н	S	Cp	Cp/Cv	V _S	SATUO	٧	Н	s	Cp	Cp/Cv	V _S	°C
° C 71.72 71.72	V 0.00102 0.00825	H 307.8 429.3	\$ 1.3433 1.6956	1.8446 1.6230	1.8417 1.6389	279.5 124.2	SATUQ SATVAP			· ` ´	Cp 1.9351 1.7675	Cp/Cv 1.9120 1.7530	v _s 257.6 121.2	° C 75.69 75.69
°C 71.72 71.72 75 80	V 0.00102 0.00825 0.00860 0.00909	H 307.8 429.3 434.5 441.8	1.3433 1.6956 1.7105 1.7313	1.8446 1.6230 1.5190 1.4143	1.8417 1.6389 1.5466 1.4531	279.5 124.2 128.1 133.3		0.00104 0.00735 — 0.00782	H 314.9 429.5 — 436.7	\$ 1.3632 1.6917 — 1.7122	1.9351 1.7675 — 1.5873	1.9120 1.7530 — 1.5944	257.6 121.2 — 126.8	° C 75.69 75.69
°C 71.72 71.72 75 80 85 90	V 0.00102 0.00825 0.00860 0.00909 0.00963 0.00993	H 307.8 429.3 434.5 441.8 448.7	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449	279.5 124.2 128.1 133.3 137.7 141.7		V 0.00104 0.00735 - 0.00782 0.00829 0.00870	H 314.9 429.5 — 436.7 444.3 451.4	\$ 1.3632 1.6917 — 1.7122 1.7336	1.9351 1.7675 — 1.5873 1.4637 1.3841	1.9120 1.7530 — 1.5944 1.4851	257.6 121.2 — 126.8 132.3 136.9	° C 75.69 75.69
°C 71.72 71.72 75 80 85 90 96	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.00993 0.01031	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103	279.5 124.2 128.1 133.3 137.7 141.7 145.3		V 0.00104 0.00735 0.00782 0.00829 0.00870 0.00909	H 314.9 429.5 — 436.7 444.3 451.4 458.2	\$ 1.3632 1.6917 1.7122 1.7336 1.7533 1.7718	1.9351 1.7675 — 1.5873 1.4637 1.3841 1.3286	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630	257.6 121.2 — 126.8 132.3 136.9 141.0	75.69 75.69 75.89 75 80 85 90 95
71.72 71.72 75.80 85.90 95.100	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.00993 0.01031 0.01067 0.01100	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2831 1.2612	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7		V 0.00104 0.00735 — 0.00782 0.00829 0.00870 0.00909 0.00945 0.00978	H 314.9 429.5 — 436.7 444.3 451.4 458.2 464.7 471.1	\$ 1.3632 1.6917	1.9351 1.7675 — 1.5873 1.4637 1.3841 1.3286 1.2882 1.2579	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630 1.3250 1.2954	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2	75.69 75.69 75.89 75 80 85 90 95 100 105
71.72 71.72 71.72 75 80 85 90 96 100 105 110 115	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01031 0.01067 0.01100 0.01133 0.01164	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 486.9	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2831 1.2612 1.2429 1.2276	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3		V 0.00104 0.00735 	H 314.9 429.5 — 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4	\$ 1.3632 1.6917 	1.9351 1.7675 — 1.5873 1.4637 1.3841 1.3286 1.2882 1.2579 1.2346 1.2166	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630 1.3250 1.2954 1.2715 1.2519	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3	75.69 75.69 75.69 75 80 85 90 95 100 105 110 115
71.72 71.72 71.72 75 80 85 90 95 100 105 110 115 120	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01031 0.01067 0.01103 0.01164 0.01195 0.01224	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8806	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2831 1.2612 1.2429 1.2276 1.2145	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9		V 0.00104 0.00735	H 314.9 429.5 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 495.5	\$ 1.3632 1.6917 - 1.7122 1.7336 1.7533 1.7718 1.8064 1.8064 1.8227 1.8386 1.8541 1.8692	1,9351 1,7675 — 1,5873 1,4637 1,3841 1,3286 1,2882 1,2579 1,2346 1,2166 1,2026 1,1917	1.9120 1.7530 	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1	75.69 75.69 75.89 75 80 85 90 95 100 105 110 115 120
71.72 71.72 71.72 75 80 85 90 95 100 110 115 120 125 130 135	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01031 0.01103 0.01164 0.01195 0.01224 0.01223 0.01281	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7 503.5 509.3	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8658 1.8951 1.9094	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1606 1.1565	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2831 1.2612 1.2429 1.2276 1.2145 1.2032 1.1934 1.1847	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7		V 0.00104 0.00735	H 314.9 429.5 - 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 495.5 501.4 507.3	\$ 1.3632 1.6917 	1.9351 1.7675 — 1.5873 1.4637 1.3841 1.3286 1.2579 1.2346 1.2166 1.2026 1.1917 1.1832 1.1767	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630 1.3250 1.2954 1.2715 1.2519 1.2355 1.2215 1.2095 1.1990	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7	75.69 75.69 75.69 75.69 75 80 85 90 95 100 105 110 115 120 125 130 135
71.72 71.72 71.72 75 80 85 90 95 100 105 110 115 120 125 130	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01061 0.01103 0.01133 0.01164 0.01195 0.01224 0.01253	H 307.8 429.3 434.5 441.8 448.7 456.3 461.6 467.9 474.0 480.0 486.9 491.8 497.7 503.5	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8508 1.8668 1.8668 1.8951	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1606	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2612 1.2429 1.2276 1.2145 1.2032 1.1934	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7		V 0.00104 0.00735	H 314.9 429.5 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 495.5 501.4	\$ 1.3632 1.6917 - 1.7122 1.7336 1.7533 1.7718 1.7894 1.8064 1.8227 1.8386 1.8541 1.8692 1.8841	1,9351 1,7675 — 1,5873 1,4637 1,3841 1,3286 1,2882 1,2579 1,2346 1,2166 1,2026 1,1917 1,1832	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630 1.3250 1.2954 1.2715 1.2519 1.2355 1.2215 1.2095	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3	75.69 75.69 75.69 75 80 85 90 95 100 105 110 115 120 120
71.72 71.72 71.72 75 80 85 90 95 100 105 110 115 120 125 130 140 145	V 0.00102 0.00825 0.00860 0.00993 0.01031 0.01104 0.01195 0.01224 0.01233 0.01231 0.01336 0.01336 0.01336 0.01336	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8806 1.8951 1.9094 1.9235 1.9374 1.9510	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1537 1.1519	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2831 1.2612 1.2429 1.2276 1.2145 1.2032 1.1934 1.1847 1.1770 1.1701	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 171.2		0.00104 0.00735 	H 314.9 429.5 — 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 495.5 501.4 507.3 513.2 519.0 524.9	\$ 1.3632 1.6917 — 1.7122 1.7336 1.7533 1.7718 1.7894 1.8064 1.8227 1.8386 1.8541 1.8692 1.8841 1.8986 1.9129 1.9270 1.9408	1,9351 1,7675 — 1,5873 1,4637 1,3841 1,3286 1,2579 1,2346 1,2166 1,2026 1,1917 1,1832 1,1767 1,1767 1,1719 1,1684 1,1660	1.9120 1.7530 	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3	75.69 75.69 75.89 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145
71.72 71.72 71.72 75 80 85 90 105 110 115 120 125 130 145 145 155 160	V 0.00102 0.00825 0.00860 0.00993 0.01031 0.01067 0.01100 0.01133 0.01164 0.01195 0.01224 0.01281 0.01308 0.01335	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6 532.3 538.1	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8951 1.9094 1.9235 1.9374 1.9510 1.9646 1.9779	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1505 1.1537 1.1519 1.1510 1.1510 1.1510 1.1510	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2612 1.2276 1.2145 1.2032 1.1934 1.1847 1.1770 1.1770 1.1701 1.1639 1.1583 1.1532	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 171.2 173.3 175.2 177.1		V 0.00104 0.00735	H 314.9 429.5 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 501.4 507.3 513.2 519.0 524.9 530.7 536.5	\$ 1.3632 1.6917 — 1.7122 1.7336 1.7533 1.7718 1.7894 1.8064 1.8227 1.8386 1.8541 1.8986 1.9129 1.9270 1.9408 1.9545 1.9680	1,9351 1,7675 — 1,5873 1,4637 1,3841 1,3286 1,2882 1,2579 1,2346 1,2166 1,2166 1,1917 1,1832 1,1767 1,1719 1,1684 1,1660 1,1646 1,1641	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630 1.3250 1.2954 1.2715 1.2519 1.2355 1.2215 1.2095 1.1898 1.1817 1.1744 1.1679 1.1620	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3 173.4 175.4	75.69 75.69 75.69 75.69 75 80 85 90 105 110 115 120 120 135 140 145 155 160
71.72 71.72 71.72 75 80 85 90 95 100 115 120 125 130 140 145 150 166 160 165 170	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01031 0.01100 0.01133 0.01164 0.01195 0.01224 0.01224 0.01335 0.01335 0.01335 0.01335 0.01388 0.01345 0.01443 0.01439 0.01464	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6 532.3 538.1 543.9 549.6	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8658 1.8906 1.9937 1.9374 1.9510 1.9646 1.9779 1.9912 2.0042	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1565 1.1537 1.1510 1.1509 1.1515 1.1526 1.1526 1.1541	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2812 1.2276 1.2145 1.2032 1.1934 1.1847 1.1770 1.1701 1.1639 1.1583 1.1583 1.1582 1.1445 1.1443	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 171.2 173.3 175.2 177.1 179.0 180.8		V 0.00104 0.00735	H 314.9 429.5 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 501.4 507.3 513.2 519.0 524.9 530.7 536.5 542.3 548.1	\$ 1.3632 1.6917	1.9351 1.7675 — 1.5873 1.4637 1.3841 1.3286 1.2579 1.2346 1.2166 1.2026 1.1917 1.1832 1.1767 1.1719 1.1684 1.1640 1.1641 1.1642 1.1649	1.9120 1.7530 	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3 173.4 175.4 177.3	75.69 75.69 75.69 75.69 75 80 85 90 95 100 115 120 135 140 145 150 165 170
71.72 71.72 71.72 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 165 170 175 180	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01067 0.01100 0.01133 0.01164 0.01195 0.01224 0.01253 0.01281 0.01308 0.01335 0.01335 0.01335 0.01349 0.01449 0.01488 0.01513	H 307.8 429.3 434.5 441.8 448.7 456.3 461.6 467.9 474.0 480.0 486.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6 532.3 538.1 543.9 549.6 555.4 561.2	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8951 1.9094 1.9235 1.9374 1.9510 1.9646 1.9779 1.9912 2.0042 2.0172 2.0300	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2001 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1565 1.1535 1.1510 1.1510 1.1510 1.1510 1.1510 1.1511 1.1526 1.1531 1.1541 1.1561 1.1585	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2612 1.2276 1.2145 1.2032 1.1934 1.1847 1.1770 1.1770 1.1533 1.1533 1.1532 1.1443 1.1443 1.1443	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 177.2 173.3 175.2 177.1 179.0 180.8 182.6 184.3		V 0.00104 0.00735	H 314.9 429.5 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 495.5 501.4 507.3 513.2 519.0 524.9 530.7 536.5 542.3 548.1 554.0 559.8	\$ 1.3632 1.6917	1,9351 1,7675 — 1,5873 1,4637 1,3841 1,3286 1,2579 1,2346 1,2166 1,2026 1,1917 1,1832 1,1767 1,1719 1,1684 1,1640 1,1646 1,1641 1,1642 1,1649 1,1662 1,1679	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630 1.3250 1.2954 1.2715 1.2355 1.2215 1.2095 1.1990 1.1898 1.1817 1.1744 1.1679 1.1620 1.1567 1.1518 1.1473 1.1473	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3 173.4 175.4 177.3 179.2	75.69 75.69 75.89 75.89 75 80 85 90 95 100 105 110 125 130 135 140 145 155 160 165 170 175 180
71.72 71.72 71.72 75 80 85 90 95 100 110 115 120 125 130 140 145 150 166 170 175 180 190	V 0.00102 0.00825 0.00860 0.0099 0.00953 0.01031 0.01100 0.01133 0.01164 0.01195 0.01224 0.01223 0.01281 0.01308 0.01335 0.01362 0.01362 0.01443 0.01449 0.01464 0.01488 0.01513 0.01537 0.01561	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6 532.3 538.1 543.9 549.6 556.4 561.2 567.0 572.8	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8658 1.8966 1.9931 1.9094 1.9235 1.9374 1.9510 1.9646 1.9779 1.9912 2.0042 2.0172 2.0030 2.0428 2.0554	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1565 1.1537 1.1510 1.1509 1.1515 1.1526 1.1541 1.1561 1.1561 1.1561 1.1561 1.1561 1.1561 1.1561 1.1561 1.1561 1.1585 1.1612 1.1642	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2831 1.2612 1.2429 1.2276 1.2145 1.2032 1.1934 1.1847 1.1770 1.1770 1.1583 1.1532 1.1485 1.1443 1.1404 1.1367 1.1334 1.1302	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 171.2 173.3 175.2 177.1 179.0 180.8 182.6 184.3 186.0 187.6		V 0.00104 0.00735	H 314.9 429.5 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 501.4 507.3 513.2 519.0 524.9 530.7 536.5 542.3 548.1 554.0 559.8 565.7 571.5	\$ 1.3632 1.6917	1.9351 1.7675 — 1.5873 1.4637 1.3841 1.3286 1.2579 1.2346 1.2166 1.2026 1.177 1.1832 1.1767 1.1719 1.1684 1.1640 1.1641 1.1642 1.1649 1.1662 1.1679 1.1699 1.1723	1.9120 1.7530 	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3 173.4 175.4 177.3 179.2 181.1 182.9 184.6 186.3	75.69 75.69 75.69 75.69 75 80 85 90 95 100 115 120 125 130 140 145 150 165 170 175 180 190
71.72 71.72 71.72 75 80 85 90 105 110 115 120 125 130 135 140 145 155 160 165 170 175 180 185	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01031 0.01067 0.01100 0.01133 0.01164 0.01223 0.01224 0.01223 0.01235 0.01336 0.01336 0.01336 0.01336 0.01453 0.01459 0.01469 0.01488 0.01513 0.01537	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6 532.3 538.1 543.9 549.6 556.4 561.2 567.0	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8951 1.9094 1.9235 1.9374 1.9510 1.9646 1.9779 1.9912 2.0042 2.0172 2.0300 2.0428	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1505 1.1537 1.1519 1.1510 1.1515 1.1526 1.1541 1.1585 1.1581 1.1585 1.1581	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2612 1.2429 1.2276 1.2145 1.2032 1.1847 1.1770 1.1701 1.1639 1.1583 1.1532 1.1443 1.1404 1.1367 1.1334	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 171.2 173.3 175.2 177.1 179.0 180.8 182.6 184.3 186.0		V 0.00104 0.00735	H 314.9 429.5 - 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 501.4 507.3 513.2 519.0 524.9 530.7 536.5 542.3 548.1 554.0 559.8 565.7	\$ 1.3632 1.6917	1,9351 1,7675 — 1,5873 1,4637 1,3841 1,3286 1,2882 1,2579 1,2346 1,2166 1,2026 1,1917 1,1832 1,1767 1,1719 1,1684 1,1640 1,1641 1,1642 1,1649 1,1662 1,1679 1,1699	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630 1.3250 1.2954 1.2715 1.2519 1.2355 1.2215 1.2095 1.1990 1.1898 1.1817 1.1679 1.1620 1.1567 1.1518 1.1473 1.1432 1.1394	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3 175.4 177.3 179.2 181.1 182.9 184.6	75.69 75.69 75.69 75.69 75 80 85 90 105 110 115 120 125 130 135 140 145 155 160 165 170 175 180 185
71.72 71.72 71.72 75 80 85 90 95 100 115 120 125 130 140 145 150 165 170 175 180 185 190 195	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.00903 0.01031 0.01100 0.01133 0.01164 0.01196 0.01224 0.012281 0.01308 0.01335 0.01362 0.01362 0.01362 0.01368 0.01413 0.01439 0.01464 0.01488 0.01413 0.01459 0.01464 0.01488 0.01513 0.01557 0.01561 0.01585	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6 532.3 538.1 543.9 549.6 555.4 561.2 567.0 572.8 578.6	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8658 1.8951 1.9034 1.9235 1.9374 1.9510 1.9646 1.9779 1.9912 2.0042 2.0172 2.0042 2.0172 2.00300 2.0428 2.0654 2.0679	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1565 1.1537 1.1519 1.1510 1.1515 1.1526 1.1541 1.1561 1.1561 1.1561 1.1585 1.1541	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2831 1.2612 1.2276 1.2145 1.2032 1.1934 1.1847 1.1770 1.1770 1.1639 1.1583 1.1532 1.1485 1.1443 1.1404 1.1367 1.1302 1.1273	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 171.2 173.3 175.2 177.1 179.0 180.8 182.6 184.3 186.0 187.6 189.3		V 0.00104 0.00735	H 314.9 429.5 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 501.4 507.3 513.2 519.0 524.9 530.7 536.5 542.3 548.1 554.0 559.8 566.7 571.5 577.4	\$ 1.3632 1.6917	1.9351 1.7675	1.9120 1.7530 — 1.5944 1.4851 1.4137 1.3630 1.3250 1.2954 1.2715 1.2519 1.2355 1.2215 1.2095 1.1990 1.1898 1.1817 1.1744 1.1679 1.1620 1.1567 1.1518 1.1473 1.1473 1.1432 1.1394 1.1359 1.1327	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3 173.4 175.4 177.3 179.2 181.1 182.9 184.6 186.3 188.0	75.69 75.69 75.69 75.69 75.69 75.69 85 90 105 110 115 120 125 130 135 140 145 150 165 170 175 180 195
71.72 71.72 71.72 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 165 170 175 180 185 190 195	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01031 0.01067 0.01100 0.01133 0.01164 0.01195 0.01224 0.01281 0.01308 0.01335 0.01335 0.01431 0.01439 0.014464 0.01185 0.01537 0.01561 0.01585 0.01585 0.01608 0.01631	H 307.8 429.3 434.5 441.8 448.7 456.3 461.6 467.9 474.0 480.0 486.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6 532.3 538.1 543.9 549.6 555.4 561.2 567.0 572.8 578.6 584.5 590.3	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8951 1.9094 1.9235 1.9374 1.9510 1.9646 1.9779 1.9912 2.0042 2.0172 2.0300 2.0428 2.0554 2.0679 2.0803 2.0927	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1565 1.1537 1.1519 1.1510 1.1509 1.1515 1.1526 1.1541 1.1585 1.1642 1.1642 1.1674 1.1708	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2612 1.2429 1.2276 1.2145 1.1770 1.1770 1.1770 1.1583 1.1583 1.1583 1.1583 1.1485 1.14443 1.1404 1.1367 1.1302 1.1273 1.1273	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 177.2 173.3 175.2 177.1 179.0 180.8 182.6 184.3 186.0 187.6 189.3		V 0.00104 0.00735	H 314.9 429.5 - 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 501.4 507.3 513.2 519.0 524.9 530.7 536.5 542.3 548.1 556.0 559.8 565.7 571.5 577.4 583.3 589.2	\$ 1.3632 1.6917	1,9351 1,7675	1.9120 1.7530 	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3 173.4 175.4 177.3 179.2 181.1 182.9 184.6 186.3 188.0 189.6 191.2	75.69 75.69 75.89 75 80 85 90 95 100 105 110 125 130 135 140 145 155 160 165 170 175 180 185 190 205
71.72 71.72 71.72 75 80 85 90 95 100 115 120 125 130 145 140 145 150 165 170 175 180 185 190 195 200 205 210 215	V 0.00102 0.00825 0.00860 0.00909 0.00953 0.01031 0.01057 0.01100 0.01133 0.01164 0.01195 0.01224 0.01223 0.01281 0.01308 0.01335 0.01362 0.01363 0.01443 0.01439 0.01464 0.01488 0.01513 0.01585 0.01688 0.01637	H 307.8 429.3 434.5 441.8 448.7 455.3 461.6 467.9 474.0 480.0 485.9 491.8 497.7 503.5 509.3 515.1 520.8 526.6 532.3 538.1 543.9 549.6 556.4 561.2 567.0 572.8 578.6 584.5 590.3 596.2 602.1	\$ 1.3433 1.6956 1.7105 1.7313 1.7507 1.7690 1.7865 1.8033 1.8195 1.8354 1.8508 1.8658 1.8658 1.8951 1.9094 1.9235 1.9374 1.9510 1.9646 1.9779 1.9912 2.0042 2.0172 2.0042 2.0172 2.0030 2.0428 2.0554 2.0679 2.0803 2.0927 2.1049 2.1170	1.8446 1.6230 1.5190 1.4143 1.3450 1.2961 1.2601 1.2329 1.2121 1.1959 1.1834 1.1737 1.1662 1.1565 1.1537 1.1519 1.1510 1.1515 1.1526 1.1541 1.1561 1.1585 1.1541 1.1581 1.1581 1.1581 1.1581 1.1581 1.1674 1.1708 1.1708 1.1744 1.1708 1.1744 1.1708	1.8417 1.6389 1.5466 1.4531 1.3903 1.3449 1.3103 1.2831 1.2612 1.2276 1.2145 1.2032 1.1934 1.1847 1.1770 1.1770 1.1639 1.1532 1.1485 1.1443 1.1404 1.1302 1.1273 1.1246 1.1221 1.1197 1.1174	279.5 124.2 128.1 133.3 137.7 141.7 145.3 148.6 151.7 154.6 157.3 159.9 162.4 164.7 167.0 169.1 171.2 173.3 175.2 177.1 179.0 180.8 182.6 184.3 186.0 187.6 189.3 190.8		V 0.00104 0.00735	H 314.9 429.5 436.7 444.3 451.4 458.2 464.7 471.1 477.3 483.4 489.5 501.4 507.3 513.2 519.0 524.9 530.7 536.5 542.3 548.1 554.0 559.8 566.7 571.5 577.4 583.3 589.2 595.1 601.0	\$ 1.3632 1.6917	1.9351 1.7675	1.9120 1.7530 	257.6 121.2 — 126.8 132.3 136.9 141.0 144.8 148.2 151.3 154.3 157.1 159.7 162.3 164.7 167.0 169.2 171.3 173.4 175.4 177.3 179.2 181.1 182.9 184.6 186.3 188.0 189.6 191.2 192.8 194.4	75.69 75.69 75.69 75.69 75.69 75.69 75.69 75.69 75.69 100 105 110 115 120 125 130 135 140 145 150 165 170 175 180 195 200 205 201 215



