

**Lookup Table ( $\gamma = 5/3$ )**

M	$\mu$ (deg.)	$\nu$ (deg.)
2.00	30.00	21.79
2.01	29.84	22.00
2.02	29.67	22.21
2.03	29.51	22.42
2.04	29.35	22.63
2.05	29.20	22.84
2.06	29.04	23.05
2.07	28.89	23.25
2.08	28.74	23.46
2.09	28.59	23.67
2.10	28.44	23.87
2.11	28.29	24.07
2.12	28.14	24.28
2.13	28.00	24.48
2.14	27.86	24.68
2.15	27.72	24.88
2.16	27.58	25.08
2.17	27.44	25.28
2.18	27.30	25.47
2.19	27.17	25.67
2.20	27.04	25.87

**Method of Characteristics Table ( $\gamma = 5/3$ ,  $M_{des} = 2.4$ )**

Point	$R^+$	$R^-$	$\theta$	$\nu$	M	$\mu$	$\theta + \mu$	$\theta - \mu$	$x$	$y$
a	0.00	1.60	0.80	0.80	1.08	68.32	69.12	-67.52	0.00	1.00
b	0.00	10.93	5.47	5.47	1.30	50.11	55.57	-44.64	0.00	1.00
c	0.00	20.27	10.13	10.13	1.50	41.93	52.07	-31.80	0.00	1.00
d	0.00	29.60	14.80	14.80	1.69	36.28	51.08	-21.47	0.00	1.00
1	1.60	1.60	0.00	1.60	1.12	62.91	62.91	-62.91	0.46	0.00
2	1.60	10.94	4.67	6.27	1.34	48.41	53.08	-43.74	0.68	0.34
3	1.61	20.28	9.33	10.94	1.53	40.82	50.15	-31.49	0.80	0.50
4	1.60	29.60	14.00	15.60	1.72	35.46	49.46	-21.46	0.92	0.64
5	1.60	29.60	14.00	15.60	1.72	35.46	49.46	-21.46	1.57	1.40
6	10.94	10.94	0.00	10.94	1.53	40.82	40.82	-40.82	1.05	0.00
7	10.94	20.27	4.67	15.60	1.72	35.46	40.12	-30.79	1.30	0.21
8	10.93	29.59	9.33	20.26	1.93	31.22	40.55	-21.89	1.52	0.40
9	10.93	29.59	9.33	20.26	1.93	31.22	40.56	-21.89	3.05	1.71
10	20.26	20.26	0.00	20.26	1.93	31.22	31.22	-31.22	1.64	0.00
11	20.27	29.60	4.66	24.93	2.15	27.68	32.35	-23.02	1.98	0.21
12	20.26	29.60	4.67	24.93	2.15	27.69	32.35	-23.02	4.66	1.91
13	29.60	29.60	0.00	29.60	2.40	24.62	24.62	-24.62	2.45	0.00
14	29.60	29.60	-0.00	29.60	2.40	24.62	24.62	-24.62	6.81	1.99