

Таблица коэффициентов поглощения для горячего воздуха при  $T = 3500 \text{ K}$

Таблица из книги Авиловой И.В., Бибермана Л.М. и др. "Оптические свойства горячего воздуха"

М.: Из-во Наука. 1970, стр. 3

P, атм	250	500	750	1000	1250	1500	1750	2000	2250
0,001	34-10	85-11	38-11	22-11	14-11	54-08	69-07	64-07	54-12
0,01	19-08	47-09	21-09	12-09	76-10	16-06	21-05	20-05	26-10
0,03	12-07	31-08	14-08	78-09	50-09	82-06	10-04	98-05	17-09
0,1	94-07	23-07	10-07	59-08	38-08	44-05	56-04	52-04	12-08
0,3	57-06	14-06	63-07	36-07	23-07	18-04	23-03	22-03	73-08
1	38-05	96-06	42-06	24-06	15-06	79-04	10-02	93-03	48-07
3	20-04	51-05	23-05	13-05	82-06	27-03	34-02	32-02	25-06
10	13-03	32-04	14-04	79-05	50-05	10-02	13-01	12-01	16-05
30	60-03	15-03	66-04	37-04	24-04	32-02	43-01	37-01	73-05
100	23-02	70-03	31-03	18-03	11-03	11-01	14 00	13 00	34-04

2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
49-12	46-12	46-12	69-09	57-08	53-08	58-12	65-12	75-12	82-12
23-10	21-10	19-10	21-07	17-06	16-06	20-10	22-10	24-10	26-10
14-09	13-09	12-09	10-06	88-06	80-06	11-09	12-09	13-09	14-09
10-08	91-09	82-09	56-06	46-05	42-05	70-09	72-09	76-09	80-09
61-08	52-08	46-08	23-05	19-04	18-04	36-08	36-08	38-08	38-08
40-07	34-07	29-07	10-04	82-04	76-04	21-07	20-07	20-07	20-07
21-06	18-06	15-06	35-04	28-03	26-03	10-06	95-07	92-07	90-07
13-05	11-05	90-06	13-03	11-02	99-03	57-06	53-06	50-06	48-06
60-05	50-05	42-05	40-03	33-02	31-02	25-05	23-05	22-05	21-05
28-04	23-04	20-04	14-02	11-01	10-01	12-04	11-04	99-05	92-05

5000	5250	5500	5750	6000	6250	6500	6750	7000
89-12	10-11	12-11	13-11	16-11	17-11	17-11	24-11	32-11
28-10	31-10	34-10	37-10	44-10	49-10	50-10	62-10	81-10
15-09	16-09	17-09	18-09	22-09	24-09	25-09	30-09	39-09
84-09	92-09	97-09	10-08	12-08	13-08	14-08	16-06	21-08
40-08	43-08	44-08	46-08	54-08	59-08	60-08	71-08	93-08
20-07	21-07	22-07	22-07	26-07	28-07	28-07	34-07	44-07
90-07	91-07	92-07	93-07	10-06	11-06	11-06	14-06	18-06
46-06	46-06	46-06	45-06	49-06	51-06	51-06	66-06	87-06
20-05	19-05	19-05	18-05	19-05	20-05	20-05	28-05	36-05
87-05	84-05	82-05	80-05	82-05	83-05	82-05	13-04	18-04

7250	7500	7750	8000	8250	8500	8750	9000	9250
32-11	32-11	36-11	44-11	75-11	63-11	65-11	70-11	66-11
82-10	84-10	10-09	13-09	15-09	14-09	17-09	21-09	20-09
40-09	41-09	51-09	64-09	70-09	66-09	83-09	11-08	11-08
21-08	23-08	29-08	36-06	38-08	37-08	48-08	67-08	69-08
97-08	10-07	14-07	17-07	18-07	19-07	25-07	35-07	38-07
47-07	54-07	71-07	91-07	10-06	11-06	15-06	21-06	24-06
20-06	24-06	33-06	42-06	50-06	58-06	77-06	11-05	13-05
10-05	13-05	18-05	24-05	30-05	36-05	48-05	66-05	81-05
45-05	59-05	86-05	11-04	15-04	19-04	24-04	34-04	42-04
23-04	32-04	48-04	64-04	86-04	11-03	15-03	20-03	25-03

9500	9750	10000	10250	10500	10750	11000	11250	11500
10-10	14-10	15-10	12-10	10-10	88-11	96-11	23-10	25-10
25-09	27-09	39-09	36-09	30-09	28-09	32-09	59-09	56-09
12-08	13-08	20-08	19-08	17-08	16-08	19-08	31-08	30-08
78-08	83-08	13-07	13-07	12-07	12-07	14-07	21-07	21-07
44-07	48-07	70-07	74-07	76-07	83-07	95-07	13-06	14-06
28-06	32-06	45-06	50-06	56-06	64-06	72-06	96-06	10-05
15-05	18-05	25-05	29-05	33-05	39-05	44-05	56-05	64-05
10-04	12-04	16-04	19-04	22-04	27-04	30-04	38-04	44-04
52-04	64-04	84-04	10-03	12-03	15-03	16-03	20-03	24-03
31-03	39-03	51-03	62-03	75-03	91-03	10-02	13-02	15-02

11750	12000	12250	12500	12750	13000	13250	13500	13750
19-10	15-10	17-10	16-10	16-10	22-10	27-10	27-10	24-10
49-09	47-09	59-09	60-09	61-09	70-09	80-09	85-09	87-09
28-08	29-08	36-08	38-08	39-08	44-08	50-08	54-08	57-08
22-07	24-07	29-07	31-07	33-07	37-07	42-07	46-07	50-07
15-06	17-06	20-06	22-06	24-06	27-06	30-06	34-06	37-06
12-05	13-05	16-06	18-05	19-05	22-05	24-05	27-05	30-05
72-05	83-05	97-05	11-04	12-04	14-04	15-04	17-04	19-04
51-04	58-04	68-04	75-04	84-04	95-04	11-03	12-03	13-03
28-03	32-03	37-03	41-03	46-03	52-03	59-03	66-03	72-03
17-02	20-02	23-02	26-02	23-02	32-02	37-02	41-02	46-02

14000	14250	14500	14750	15000	15250	15500	15750	16000
24-10	24-10	26-10	30-10	33-10	36-10	37-10	39-10	41-10
91-09	97-09	10-08	11-08	12-08	13-08	14-08	15-08	16-08
61-08	65-08	71-08	77-08	83-08	90-08	97-08	10-07	11-07
54-07	58-07	63-07	68-07	74-07	80-07	86-07	90-07	98-07
41-06	44-06	47-06	51-06	55-06	59-06	64-06	67-06	73-06
33-05	36-05	39-05	42-05	45-05	48-05	52-05	54-05	59-05
21-04	22-04	24-04	26-04	28-04	30-04	33-04	34-04	37-04
15-03	16-03	17-03	18-03	20-03	21-03	23-03	24-03	26-03
81-03	87-03	95-03	10-02	11-02	12-02	13-02	13-02	14-02
51-02	55-02	59-02	64-02	68-02	74-02	80-02	81-02	89-02

16250	16500	16750	17000	17250	17500	17750	18000	18250
44-10	48-10	52-10	57-10	61-10	66-10	71-10	77-10	84-10
18-08	19-08	21-08	22-08	24-08	26-08	28-08	31-08	33-08
12-07	13-07	14-07	15-07	16-07	17-07	18-07	20-07	21-07
10-06	11-06	12-06	13-06	14-06	15-06	16-06	17-06	18-06
78-06	84-06	88-06	93-06	99-06	10-05	11-05	12-05	12-05
63-05	68-05	70-05	74-05	78-05	82-05	85-05	91-05	94-05
39-04	42-04	44-04	46-04	48-04	50-04	52-04	55-04	56-04
28-03	30-03	31-03	32-03	34-03	35-03	36-03	38-03	39-03
15-02	16-07	17-02	17-02	18-02	19-02	19-02	20-02	21-02
95-02	10-01	10-01	11-01	11-01	12-01	12-01	13-01	13-01



18500	18750	19000	19250	19500	19750	20000	20250	20500
91-10	98-10	11-09	12-09	13-09	14-09	15-09	16-09	18-09
36-08	39-08	42-08	46-08	49-08	54-08	58-08	63-08	69-08
23-07	25-07	27-07	29-07	31-07	34-07	36-07	40-07	43-07
19-06	20-06	21-06	23-06	24-06	26-06	28-06	30-06	32-06
13-05	14-05	14-05	15-05	16-05	17-05	18-05	19-05	20-05
97-05	10-04	10-04	11-04	11-04	12-04	12-04	13-04	14-04
58-04	60-04	62-04	64-04	66-04	68-04	70-04	72-04	74-04
40-03	41-03	42-03	43-03	44-03	45-03	46-03	47-03	48-03
21-02	22-02	22-02	23-02	23-02	24-02	24-02	24-02	25-02
13-01	14-01	14-01	14-01	14-01	14-01	15-01	15-01	15-01

20750	21000	21250	21500	21750	22000	22250	22500	22750
19-09	21-09	23-09	25-09	27-09	30-09	32-09	35-09	38-09
75-08	82-08	89-08	97-08	11-07	12-07	13-07	14-07	15-07
46-07	50-07	55-07	60-07	65-07	71-07	78-07	85-07	92-07
35-06	37-06	40-06	44-06	47-06	51-06	56-06	60-06	66-06
21-05	22-05	24-05	26-05	28-05	30-05	32-05	34-05	37-05
14-04	15-04	16-04	16-04	17-04	18-04	20-04	21-04	22-04
77-04	79-04	83-04	86-04	90-04	94-04	98-04	10-03	11-03
49-03	50-03	52-03	53-03	55-03	56-03	58-03	60-03	63-03
25-02	26-02	26-02	27-02	27-02	28-02	29-02	29-02	30-02
15-01	15-01	16-01	16-01	16-01	16-01	17-01	17-01	17-01

23000	23250	23500	23750	24000	24250	24500	24750	25000
42-09	46-09	50-09	55-09	60-09	65-09	71-09	78-09	84-09
16-07	18-07	20-07	22-07	24-07	26-07	28-07	32-07	34-07
10-06	11-06	12-06	13-06	14-06	16-06	17-06	23-06	21-06
72-06	78-06	86-06	94-06	10-05	11-05	12-05	14-05	14-05
40-05	44-05	47-05	52-05	56-05	61-05	65-05	75-05	78-05
24-04	26-04	27-04	30-04	32-04	34-04	36-04	42-04	42-04
11-03	12-03	13-03	14-03	14-03	15-03	16-03	18-03	19-03
65-03	68-03	71-03	74-03	78-03	82-03	85-03	93-03	95-03
31-02	32-02	33-02	34-05	35-02	36-02	38-02	40-02	11-02
18-01	18-01	18-01	19-01	19-01	20-01	20-01	21-01	22-01

25250	25500	25750	26000	26250	26500	26750	27000	27250
94-09	99-09	11-08	12-06	13-06	15-08	16-08	18-08	18-08
39-07	40-07	46-07	49-07	55-07	64-07	65-07	76-07	74-07
25-06	24-06	29-06	30-06	34-06	41-06	40-06	48-06	46-06
17-05	17-05	20-05	21-05	24-05	29-05	28-05	34-05	32-05
94-05	89-05	11-04	11-04	13-04	15-04	15-04	18-04	16-04
51-04	48-04	59-04	60-04	68-04	82-04	78-04	95-04	86-04
22-03	21-03	25-03	25-03	28-03	33-03	32-03	38-03	35-03
11-02	10-02	12-02	12-02	13-02	15-02	15-02	17-02	16-02
46-02	44-02	49-02	49-02	53-02	60-02	58-02	66-02	61-02
23-01	22-01	24-01	24-01	26-01	28-01	27-01	30-01	28-01

27500	27750	28000	28250	28500	28750	29000	29250	29500
21-08	23-08	25-08	28-08	28-08	31-08	35-08	40-08	45-08
88-07	10-06	11-06	12-06	11-06	13-06	15-06	18-06	21-06
55-06	65-06	68-06	81-06	70-06	62-06	99-06	12-05	14-05
39-05	46-05	48-05	59-05	48-05	57-05	70-05	84-05	10-04
21-04	25-04	25-04	31-04	25-04	30-04	37-04	45-04	56-04
11-03	13-03	13-03	16-03	13-03	15-03	19-03	23-03	29-03
43-03	51-03	52-03	64-03	51-03	60-03	75-03	90-03	11-02
19-02	22-02	23-02	27-02	22-02	26-02	32-02	38-02	46-02
72-02	82-02	83-02	99-02	81-02	94-02	11-01	13-01	16-01
32-01	36-01	36-01	41-01	35-01	39-01	45-01	52-01	62-01

29750	30000	30250	30500	30750	31000	31250	31500	31750
43-08	47-08	56-08	64-08	75-08	70-08	78-08	89-08	10-07
17-06	20-06	25-06	30-06	37-06	30-06	34-06	40-06	44-06
11-05	12-05	16-05	19-05	24-05	19-05	21-05	25-05	29-05
74-05	85-05	11-04	14-04	18-04	13-04	15-04	18-04	20-04
38-04	44-04	60-04	76-04	98-04	69-04	80-04	96-04	11-03
19-03	22-03	30-03	39-03	50-03	35-03	40-03	49-03	55-03
75-03	86-03	12-02	15-02	19-02	13-02	15-02	13-02	21-02
32-02	36-02	49-02	62-02	80-02	55-02	64-02	76-02	86-02
11-01	13-01	17-01	21-01	27-01	19-01	21-01	25-01	28-01
46-01	51-01	64-01	79-01	99-01	71-01	81-01	95-01	10 00

32000	32250	32500	32750	33000	33250	33500	33750	34000
11-07	12-07	14-07	15-07	16-07	18-07	22-07	23-07	27-07
54-06	54-06	62-06	72-06	72-06	85-06	96-06	99-06	12-05
35-05	35-05	40-05	48-05	46-05	56-05	61-05	63-06	80-05
26-04	25-04	26-04	35-04	33-04	41-04	43-04	45-04	57-04
14-03	13-03	15-03	16-03	17-03	22-03	23-03	24-03	30-03
71-03	68-03	77-03	95-03	88-03	11-02	12-02	12-02	15-02
27-02	26-02	29-02	36-02	34-02	42-02	44-02	45-02	58-02
11-01	10-01	12-01	15-01	14-01	17-01	18-01	18-01	23-01
36-01	35-01	39-01	48-01	44-01	56-01	57-01	59-01	76-01
13 00	13 00	14 00	17 00	16 00	20 00	20 00	21 00	27 00

34250	34500	34750	35000	35250	35500	35750	36000	36250
30-07	31-07	37-07	38-07	62-07	58-07	73-07	76-07	72-07
13-05	14-05	17-05	16-05	25-09	24-05	29-05	32-05	30-05
84-05	92-05	11-04	10-04	15-04	15-04	17-04	20-04	19-04
59-04	66-04	78-04	73-04	10-03	10-03	12-03	14-03	13-03
31-03	35-03	41-03	38-03	54-03	53-03	59-03	70-03	67-03
16-02	18-02	21-02	19-02	27-02	27-02	29-02	35-02	34-02
59-02	68-02	79-02	73-02	10-01	10-01	11-01	13-01	13-01
24-01	27-01	32-01	29-01	40-01	40-01	43-01	53-01	50-01
78-01	88-01	10 00	95-01	13 00	13 00	14 00	17 00	16 00
28 00	31 00	36 00	33 00	45 00	45 00	49 00	60 00	57 00



36500	36750	37000	37250	37500	37750	38000	38250	38500
82-07	84-07	19-06	14-06	20-06	18-08	18-06	22-06	19-06
35-05	37-05	67-05	57-05	75-05	68-05	71-05	64-05	76-05
22-04	24-04	36-04	34-04	43-04	40-04	43-04	50-04	47-04
15-03	17-03	24-03	22-03	26-03	26-03	29-03	33-03	32-03
78-03	89-03	11-02	11-02	14-02	13-02	15-02	16-02	16-02
39-02	45-02	55-02	56-02	67-02	63-02	72-02	61-02	60-02
15-01	17-01	20-01	21-01	25-01	23-01	27-01	30-01	30-01
59-01	68-01	79-01	83-01	98-01	92-01	11 00	12 00	12 00
19 00	22 00	25 00	26 00	31 00	30 00	34 00	36 00	38 00
66 00	76 00	88 00	92 00	11 01	10 01	12 01	13 01	13 01

38750	39000	39250	39500	39750	40000	40250	40500	40750
57-06	50-06	50-06	44-06	41-06	41-06	30-06	99-06	11-05
20-04	17-04	17-04	16-04	15-04	16-04	13-04	34-04	39-04
11-03	94-04	96-04	93-04	85-04	92-04	80-04	18-03	21-03
68-03	58-03	60-03	60-03	54-03	60-03	56-03	11-02	13-02
31-02	27-02	29-02	29-02	27-02	30-02	29-02	52-02	61-02
15-01	13-01	14-01	14-01	13-01	15-01	14-01	24-01	28-01
53-01	47-01	51-01	52-01	48-01	54-01	54-01	88-01	10 00
21 00	18 00	20 00	20 00	19 00	22 00	22 00	34 00	40 00
66 00	56 00	63 00	66 00	60 00	69 00	69 00	11 01	13 01
23 01	20 01	22 01	23 01	21 01	24 01	24 01	37 01	44 01

41000	41250	41500	41750	42000	42250	42500	42750	43000
10-05	76-06	62-06	60-06	54-06	11-06	28-05	19-05	14-05
35-04	28-04	24-04	23-04	22-04	41-04	93-04	67-04	50-04
19-03	16-03	14-03	14-03	14-03	23-03	49-03	37-03	28-03
12-02	10-02	96-03	91-03	93-03	15-02	28-02	22-02	18-02
55-02	49-02	46-02	46-02	48-02	73-02	13-01	10-01	68-02
28-01	23-01	24-01	22-01	24-01	35-01	59-01	50-01	42-01
94-01	86-01	63-01	64-01	69-01	13 00	21 00	18 00	15 00
37 00	34 00	35 00	33 00	36 00	51 00	81 00	70 00	61 00
12 01	11 01	11 01	10 01	11 01	16 01	28 01	22 01	19 01
40 01	37 01	38 01	36 01	39 01	58 01	88 01	77 01	67 01

43250	43500	43750	44000	44250	44500	44750	45000	45250
96-06	93-06	93-06	84-06	36-05	33-05	27-05	19-05	22-05
37-04	38-04	37-04	36-04	12-03	11-03	96-04	72-04	82-04
22-03	23-03	23-03	22-03	85-03	62-03	54-03	43-03	47-03
15-02	16-02	15-02	16-02	39-02	38-02	34-02	28-02	30-02
74-02	79-02	79-02	62-02	18-01	18-01	16-01	14-01	15-01
36-01	39-01	39-01	41-01	85-01	83-01	77-01	66-01	72-01
14 00	15 00	14 00	15 00	31 00	30 00	28 00	25 00	27 00
54 00	56 00	58 00	81 00	12 01	12 01	11 01	10 01	10 01
17 01	19 01	18 01	20 01	38 01	37 01	35 01	32 01	33 01
60 01	65 04	64 01	68 01	13 02	13 02	12 02	11 02	12 02

45500	45750	46000	46250	48500	46750	47000	47250	47500
18-05	18-05	15-05	15-05	38-05	59-05	53-05	38-05	34-05
72-04	71-04	65-04	66-04	14-03	20-03	19-03	14-03	13-03
43-03	43-03	40-03	42-03	80-03	11-02	10-02	62-03	78-03
29-02	29-02	28-02	29-02	80-02	67-02	85-02	53-02	52-02
14-01	14-01	14-01	15-01	25-01	32-01	31-01	26-01	26-01
72-01	72-01	73-01	78-01	12 00	15 00	15 00	13 00	13 00
27 00	27 00	27 00	29 00	43 00	54 00	54 00	47 00	47 00
10 01	10 01	11 01	12 01	17 01	21 01	21 01	18 01	19 01
34 01	34 01	35 01	37 01	54 01	67 01	67 01	58 01	60 01
12 02	12 02	12 02	13 02	19 02	23 02	23 02	20 02	21 02

47750	48000	48250	48500	48750	49000	49250	49500	49750
29-05	30-05	30-05	30-05	69-05	96-05	66-05	78-05	82-05
12-03	13-03	14-03	14-03	28-03	35-03	32-03	30-03	32-03
70-03	66-03	91-03	96-03	16-02	20-02	19-02	18-02	19-02
47-02	61-02	66-02	70-02	10-01	13-01	12-01	12-01	12-01
24-01	32-01	35-01	38-01	52-01	64-01	61-01	58-01	62-01
12 00	16 00	18 00	19 00	23 00	31 00	30 00	29 00	30 00
44 00	61 00	86 00	73 00	96 00	11 01	11 01	11 01	11 01
18 01	24 01	27 01	29 01	36 01	45 01	43 01	42 01	44 01
56 01	78 01	66 01	94 01	12 02	14 02	14 02	13 02	14 02
19 02	27 02	30 02	33 02	42 02	49 02	48 02	48 02	49 02

50000	50250	50500	50750	51000	51250	51500	51750	52000
81-05	53-05	98-05	12-04	68-05	89-05	16-04	13-04	10-04
26-03	24-03	39-03	47-03	37-03	38-03	59-03	52-03	43-03
16-02	16-02	23-02	28-02	23-02	24-02	35-02	31-02	27-02
11-01	12-01	16-01	18-01	16-01	16-01	23-01	21-01	19-01
57-01	62-01	80-01	92-01	82-01	86-01	11 00	10 00	97-01
28 00	31 00	39 00	45 00	41 00	43 00	55 00	52 00	48 00
11 01	12 01	15 01	17 01	15 01	16 01	20 01	19 01	18 01
42 01	47 01	56 01	68 01	62 01	64 01	80 01	77 01	73 01
14 02	15 02	19 02	21 02	20 02	20 02	26 02	24 02	23 02
47 02	53 02	64 02	73 02	68 02	71 02	88 02	85 02	81 02

52250	52500	52750	53000	53250	53500	53750	54000	54250
87-05	21-04	15-04	18-04	17-04	23-04	18-04	14-04	12-04
40-03	60-03	62-03	67-03	69-03	80-03	70-03	57-03	53-03
26-02	46-02	38-02	41-02	43-02	53-02	42-02	34-02	33-02
19-01	30-01	26-01	28-01	29-01	35-01	28-01	23-01	24-01
10 00	15 00	13 00	14 00	15 00	18 00	14 00	12 00	12 00
51 00	72 00	86 00	72 00	75 00	86 00	88 00	58 00	62 00
19 01	26 01	25 01	27 01	26 01	32 01	25 01	22 01	23 01
77 01	10 02	86 01	11 02	11 02	13 02	10 02	87 01	93 01
25 02	33 02	31 02	34 02	38 02	40 02	32 02	28 02	30 02
68 02	11 03	11 03	12 03	12 03	14 03	11 03	96 02	10 03



54500	54750	55000	55250	55500	55750	56000	56250	56500
95-05	26-04	34-04	19-04	20-04	37-04	23-04	16-04	11-04
48-03	10-02	12-02	73-03	74-03	13-02	93-03	64-03	50-03
31-02	81-02	70-02	43-02	42-02	89-02	48-02	39-02	32-02
29-01	39-01	45-01	28-01	27-01	41-01	30-01	26-01	23-01
12 00	19 00	22 00	14 00	13 00	19 00	19 00	13 00	13 00
63 00	94 00	10 01	70 00	63 00	90 00	72 00	66 00	61 00
24 01	35 01	38 01	28 01	23 01	33 01	26 01	24 01	23 01
96 01	14 02	13 02	10 02	92 01	13 02	10 02	97 01	92 01
31 02	44 02	48 02	33 02	29 02	40 02	33 02	31 02	30 02
11 03	15 03	17 03	11 03	10 03	14 03	11 03	11 03	10 03

56750	57000	57250	57500	57750	58000	58250	58500	58750
86-03	13-04	41-04	28-04	31-04	38-04	32-04	20-04	12-04
42-03	54-03	14-02	99-03	11-02	13-02	12-02	79-03	57-03
26-02	33-02	76-02	58-02	82-02	73-02	85-02	47-02	37-02
20-01	22-01	43-01	35-01	39-01	45-01	41-01	32-01	28-01
11 00	11 00	21 00	17 00	19 00	21 00	20 00	18 00	14 00
55 00	58 00	99 00	81 00	89 00	10 01	94 00	79 00	71 00
21 01	21 01	38 01	30 01	32 01	37 01	35 01	29 01	27 01
63 01	84 01	14 02	12 02	13 02	14 02	14 02	12 02	11 02
27 02	27 02	44 02	37 02	40 02	45 02	43 02	37 02	34 02
93 02	93 02	15 03	13 03	14 03	16 03	15 03	13 03	12 03

59000	59250	59500	59750	60000	60250	60500	60750	61000
89-05	70-05	29-04	24-04	33-04	30-04	28-04	20-04	14-04
47-03	42-03	11-02	96-05	12-02	12-02	10-02	88-03	89-03
32-02	30-02	64-02	58-02	73-02	89-02	84-02	55-02	48-02
24-01	23-01	42-01	39-01	47-01	45-01	43-01	39-01	35-01
13 00	13 00	21 00	20 00	23 00	23 00	22 00	20 00	19 00
68 00	68 00	10 01	98 00	11 01	11 01	11 01	10 01	98 00
28 01	26 01	38 01	36 01	42 01	41 01	40 01	38 01	36 01
10 02	10 02	15 02	14 02	17 02	16 02	18 02	15 02	14 02
33 02	34 02	48 02	46 02	53 02	52 02	51 02	49 02	47 02
12 03	12 03	16 03	16 03	18 03	18 03	18 03	17 03	18 03

61250	61500	61750	62000	62250	62500	62750	63000	63250
10-04	81-05	16-04	11-04	13-04	18-04	15-04	14-04	11-04
56-03	53-03	77-03	64-03	72-03	81-03	80-03	75-03	68-03
42-02	40-02	52-02	48-02	50-02	35-02	55-02	53-02	50-02
32-01	32-01	36-01	38-01	38-01	41-01	42-01	41-01	40-01
18 00	16 00	21 00	20 00	21 00	22 00	23 00	22 00	22 00
93 00	93 00	11 01	10 01	11 01	11 01	12 01	12 01	12 01
35 01	36 01	40 01	39 01	41 01	44 01	44 01	44 01	44 01
14 02	14 02	18 02	16 02	18 02	18 02	18 03	16 02	18 02
46 02	46 02	52 02	50 02	53 02	56 02	87 02	58 02	57 02
18 03	18 03	16 03	18 03	16 03	20 03	20 03	20 03	20 03

63500	63750	64000	64250	64500	64750	65000	65250	65500
87-05	76-05	73-05	77-05	93-05	99-05	96-05	85-05	79-05
83-03	81-03	80-03	82-03	88-03	71-03	71-03	86-03	87-03
48-02	47-02	47-02	49-02	82-02	54-02	54-02	53-02	53-02
39-01	39-01	39-01	40-01	42-01	44-01	44-01	44-01	44-01
22 00	22 00	22 00	23 00	24 00	24 00	25 00	25 00	25 00
11 01	12 01	12 01	12 01	12 01	13 01	13 01	13 01	13 01
44 01	44 01	45 01	46 01	48 01	49 01	50 01	50 01	51 01
18 02	18 02	18 02	19 02	20 02	20 02	20 02	20 02	21 02
57 02	58 02	59 02	61 02	63 02	64 02	66 02	98 02	67 02
20 03	20 03	20 03	21 03	22 03	22 03	23 03	23 03	23 03

65750	66000	66250	66500	66750	67000	67250	67500	67750
78-05	76-05	78-05	60-05	81-05	12-04	79-05	60-05	80-05
88-03	88-03	89-03	70-03	71-03	73-03	71-03	72-03	73-03
54-02	54-02	55-02	58-02	56-02	57-02	57-02	58-02	58-02
45-01	45-01	48-01	47-01	47-01	48-01	46-01	48-01	49-01
26 00	25 00	26 00	27 00	27 00	27 00	27 00	28 00	28 00
13 01	14 01	14 01	14 01	14 01	14 01	14 01	15 01	15 01
52 01	52 01	53 01	54 01	55 01	56 01	56 01	56 01	57 01
21 02	21 02	22 02	22 02	22 02	22 02	23 02	23 02	23 02
68 02	68 02	70 02	71 02	72 02	73 02	73 02	74 02	75 02
24 03	24 03	24 03	25 03	29 03	25 03	26 03	28 03	28 03

68000	68250	68500	68750	69000	69250	69500	69750	70000
81-05	81-05	81-05	82-05	82-05	82-05	64-05	64-05	88-05
73-03	74-03	74-03	74-03	74-03	75-03	75-03	75-03	77-03
59-02	56-02	59-02	80-02	60-02	60-02	60-02	60-02	62-02
49-01	50-01	50-01	50-01	50-01	50-01	51-01	51-01	52-01
28 00	28 00	28 00	29 00	29 00	29 00	29 00	29 00	30 00
18 01	15 01	15 01	15 01	15 01	15 01	15 01	15 01	16 01
57 01	58 01	58 01	56 01	59 01	59 01	59 01	56 01	60 01
23 02	23 02	24 02	24 02	24 02	24 02	24 02	24 02	24 02
75 02	76 02	76 02	76 02	77 02	77 02	77 02	77 02	79 02
28 03	26 03	26 03	27 03	27 03	27 03	27 03	27 03	27 03

70250	70500	70750	71000	71250	71500	71750	72000	72250
88-05	85-05	85-05	84-05	84-05	87-05	87-05	86-05	86-05
77-03	76-03	76-03	75-03	75-03	75-03	74-03	73-03	72-03
62-02	81-02	61-02	60-02	60-02	80-02	59-02	58-02	57-02
52-01	51-01	51-01	51-01	50-01	50-01	49-01	48-01	47-01
30 00	29 00	29 00	29 00	29 00	28 00	28 00	26 00	27 00
16 01	18 01	15 01	15 01	16 01	15 01	15 01	14 01	14 01
60 01	60 01	59 01	59 01	58 01	58 01	57 01	56 01	55 01
24 02	24 02	24 02	24 02	24 02	23 02	23 02	23 02	22 02
79 02	76 02	78 08	77 08	76 08	76 02	74 02	73 02	72 02
27 03	27 03	27 03	27 03	36 03	26 09	26 03	25 09	25 03



72500	72750	73000	73250	73500	73750	74000	74250	74500
84-05	82-05	81-05	91-05	88-05	88-05	84-05	84-05	83-05
70-03	89-03	87-03	89-03	66-03	66-03	62-03	61-03	59-03
56-02	54-02	53-02	53-02	52-02	50-02	48-02	47-02	46-02
46-01	45-01	44-01	44-01	42-01	41-01	40-01	38-01	37-01
26 00	26 00	25 00	25 00	24 00	23 00	28 00	22 00	21 00
14 01	14 01	13 01	13 01	13 01	12 01	12 01	11 01	11 01
54 01	52 01	51 01	50 01	49 01	47 01	45 01	44 01	42 01
22 02	21 02	21 02	20 02	20 02	19 02	18 02	18 02	17 02
70 02	68 02	67 02	68 02	63 02	61 02	59 02	57 02	55 02
24 03	24 03	23 03	23 03	22 03	21 03	21 03	20 03	19 03

74750	75000	75250	75500	75750	76000	76250	76500	76750
81-05	96-06	92-05	92-05	91-05	94-05	95-05	96-05	81-01
56-03	59-09	56-03	58-03	53-03	52-03	50-03	46-03	78 00
43-02	44-02	42-02	40-02	38-02	37-02	35-02	33-02	22 01
35-01	35-01	33-01	32-01	30-01	29-01	27-01	26-01	65 01
30 00	19 00	18 00	18 00	17 00	16 00	15 00	14 00	16 02
10 01	10 01	97 00	92 00	86 00	83 00	78 00	73 00	36 02
40 01	39 01	37 01	35 01	33 01	32 01	30 01	26 01	73 02
16 02	16 02	15 02	14 02	14 02	13 02	12 02	11 02	15 03
52 02	51 02	46 02	48 02	43 02	41 02	38 02	36 02	29 03
16 03	18 03	17 03	16 03	15 03	14 03	13 03	13 03	59 03

77000	77250	77500	77750	78000	78250	78500	78750	79000
91-05	89-05	11-04	11-04	12-04	12-04	14-04	12-04	13-04
43-03	40-03	47-03	46-03	44-03	43-03	42-03	38-03	42-03
29-02	28-02	30-02	26-02	27-02	28-02	24-02	23-02	25-02
22-01	21-01	28-01	20-01	19-01	17-01	16-01	14-01	17-01
12 00	11 00	11 00	10 00	97-01	89-01	81-01	73-01	87-01
63 00	58 00	58 00	53 00	49 00	44 00	40 00	36 00	43 00
24 01	22 01	22 01	20 01	18 01	16 01	15 01	13 01	16 01
97 01	88 01	87 01	60 01	73 01	68 01	59 01	52 01	84 01
31 02	28 02	26 02	26 02	29 02	21 02	19 02	17 02	20 02
11 03	99 02	97 02	89 02	81 02	73 03	66 02	56 02	71 02

79250	79500	79750	80000	80250	80500	80750	81000	81250
14-04	14-04	16-04	19-04	22-04	30-04	23-04	22-04	25-04
47-03	51-03	64-03	69-03	78-03	86-03	85-03	68-03	94-03
29-02	32-02	40-02	43-02	48-02	53-02	54-02	57-02	61-02
20-01	23-01	28-01	30-01	34-01	37-01	39-01	42-01	44-01
10 00	12 00	14 00	16 00	18 00	20 00	21 00	22 00	24 00
52 00	60 00	73 00	81 00	90 00	99 00	11 01	11 01	12 01
19 01	23 01	27 01	30 01	34 01	37 01	40 01	43 01	46 01
77 01	90 01	11 02	12 02	14 02	15 02	18 02	17 08	16 02
25 02	29 02	35 02	39 02	44 02	48 02	52 02	56 02	60 02
86 02	10 03	12 03	14 03	15 03	17 09	18 03	19 03	21 03

81500	81750	82000	82250	82500	82750	83000	83250	83500
24-04	28-04	32-04	36-04	43-04	44-04	34-04	15-01	39-04
97-03	10-02	11-02	12-02	13-02	14-02	13-02	49-01	14-02
64-02	67-02	73-02	77-02	83-02	86-02	86-02	91-01	92-02
47-01	50-01	54-01	56-01	60-01	63-01	64-01	22 00	89-01
25 00	27 00	29 00	30 00	32 00	34 00	34 00	62 00	37 00
13 01	14 01	15 01	15 01	16 01	17 01	18 01	23 01	19 01
49 01	52 01	56 01	59 01	62 01	65 01	67 01	79 01	73 01
20 02	21 02	22 02	24 02	25 02	26 02	27 02	30 02	29 02
63 02	67 02	72 02	76 02	60 02	64 02	87 02	93 02	94 02
22 03	25 03	25 03	26 03	26 03	29 03	30 03	31 03	33 03

83750	84000	84250	84500	84750	85000	85250	85500	85750
45-04	53-04	54-04	67-04	85-04	59-04	56-04	82-04	69-04
15-02	16-02	17-02	18-02	20-02	18-02	18-02	18-02	20-02
97-02	10-01	10-01	11-01	12-01	11-01	12-04	12-01	12-01
72-01	75-01	77-01	80-01	84-01	84-01	85-01	86-01	91-01
39 00	40 00	42 00	43 00	45 00	45 00	46 00	46 00	49 00
20 01	21 01	21 01	22 01	23 01	23 01	24 01	24 01	25 01
76 01	76 01	81 01	84 01	87 01	88 01	91 01	93 01	96 01
30 02	32 02	33 02	34 02	35 08	36 02	38 02	36 02	38 02
98 09	10 03	10 03	11 03	11 03	11 03	12 03	12 03	12 03
34 03	35 03	38 03	36 03	39 03	40 03	41 09	42 03	43 03

86000	86250	86500	86750	87000	87250	87500	87750	88000
88-04	10-03	11-03	34-03	17-03	85-04	10-03	12-03	14-03
22-02	23-02	24-02	47-02	31-02	23-02	25-02	27-02	29-02
13-01	14-01	14-01	21-01	16-01	14-01	15-01	14-01	16-01
94-01	96-01	10 00	12 00	11 00	10 00	11 00	11 00	11 00
51 00	52 00	53 00	59 00	57 00	56 00	57 00	59 00	80 00
26 01	27 01	27 01	29 01	29 01	29 01	29 01	30 01	31 01
98 01	10 02	10 02	11 02	11 02	11 02	11 02	11 02	12 02
40 02	41 02	42 02	43 02	44 02	44 02	45 02	46 02	47 02
13 03	13 03	13 03	14 03	14 03	14 03	14 03	15 03	15 03
44 03	46 03	48 03	48 03	49 03	49 03	50 03	51 03	52 03

88250	88500	88750	89000	89250	89500	89750	90000	90250
57-02	20-03	26-03	36-03	30-03	20-03	26-03	25-03	28-03
21-01	35-02	42-02	51-02	46-02	36-02	42-02	41-02	45-02
46-01	16-01	20-01	24-01	22-01	19-01	21-01	21-01	22-01
17 00	12 00	13 00	14 00	14 00	13 00	14 00	14 00	14 00
72 00	64 00	67 00	71 00	70 00	67 00	70 00	70 00	72 00
33 01	32 01	33 01	35 01	35 01	34 01	35 01	38 01	36 01
12 02	12 02	13 02	13 02	13 02	13 02	13 02	13 02	14 02
49 02	49 02	50 02	52 02	52 02	52 02	53 02	54 02	55 02
15 03	18 03	16 03	17 03	17 03	17 03	17 03	17 03	18 03
54 03	55 03	56 03	56 03	58 03	58 03	59 03	60 03	61 03



90500	90750	91000	91250	91500	91750	92000	92250	92500
33-03	43-03	61-03	61-03	65-03	56-03	75-03	47-03	51-03
50-02	61-02	79-02	99-02	83-02	76-02	94-02	68-02	70-02
24-01	27-01	33-01	39-01	34-01	32-01	36-01	29-01	31-01
15 00	16 00	18 00	20 00	18 00	16 00	20 00	17 00	18 00
74 00	76 00	85 00	92 00	88 00	88 00	92 00	84 00	88 00
37 01	39 01	41 01	44 01	42 01	42 01	44 01	41 01	42 01
14 02	14 02	15 02	18 02	18 02	16 02	18 02	15 02	16 02
56 02	56 02	60 02	63 02	62 02	62 02	64 02	61 02	65 02
18 03	18 03	19 03	20 03	20 03	20 03	20 03	20 03	20 03
62 03	64 03	67 03	70 03	88 03	68 03	71 03	88 03	70 03

92750	93000	93250	93500	93750	94000	94250	94500	94750
64-03	90-03	13-02	17-02	18-02	16-02	22-02	13-02	14-02
88-02	11-01	15-01	19-01	19-01	20-01	24-01	15-01	16-01
36-01	43-01	55-01	66-01	67-01	72-01	64-01	57-01	61-01
20 00	22 00	26 00	31 00	30 00	32 00	36 00	27 00	29 00
92 00	10 01	11 01	13 01	13 01	13 01	15 01	12 01	12 01
44 01	47 01	52 01	57 01	57 01	60 01	64 01	55 01	57 01
16 02	17 02	19 02	20 02	20 02	21 02	23 02	20 02	21 02
65 02	68 02	73 02	79 02	79 02	82 02	87 02	78 02	60 02
21 03	22 03	23 03	25 03	26 03	26 03	28 03	25 03	28 03
72 03	76 03	81 03	87 03	87 03	90 03	95 03	84 03	98 03

95000	95250	95500	95750	96000	96250	96500	96750	97000
17-02	18-02	23-02	33-02	38-02	45-02	57-02	45-02	48-02
20-01	19-01	26-01	36-01	42-01	46-01	60-01	48-01	49-01
73-01	70-01	92-01	12 00	14 00	16 00	19 00	18 00	16 00
33 00	32 00	40 00	50 00	56 40	83 00	75 00	83 00	64 00
14 01	14 01	16 01	19 01	21 01	23 01	27 01	23 01	24 01
62 01	61 01	70 01	80 01	87 01	95 01	11 02	95 01	97 01
22 02	22 02	24 02	28 02	30 02	32 02	36 02	32 02	33 02
85 02	85 02	94 02	10 03	11 03	12 03	13 03	12 03	12 03
27 03	27 03	30 03	33 03	36 03	38 03	42 03	38 03	39 03
94 03	93 03	10 04	11 04	12 04	13 04	14 04	13 04	13 04

97250	97500	97750	98000	98250	98500	98750	99000	99250
55-02	29-01	45-02	57-02	66-02	79-02	11-01	12-01	12-01
56-01	29 00	48-01	60-01	69-01	83-01	12 00	12 00	13 00
19 00	64 00	16 00	20 00	22 00	26 00	36 00	38 00	40 00
74 00	26 01	63 00	76 00	85 00	99 00	13 01	14 01	14 01
27 01	69 01	24 01	26 01	30 01	34 01	45 01	47 01	48 01
11 02	20 02	96 01	11 02	12 02	13 02	17 02	18 02	18 02
36 02	51 02	33 02	37 02	40 02	45 02	56 02	58 02	59 02
13 03	15 03	12 03	14 03	15 03	18 03	20 03	21 03	21 03
42 03	42 03	39 03	43 03	46 03	51 03	63 03	65 03	66 03
14 04	13 04	13 04	15 04	16 04	17 04	21 04	22 04	22 04

99500	97500	100000	100250	100500	100750	101000	101250	101500
16-01	11-01	13-01	16-01	12-01	15-01	17 00	25-01	26-01
16 00	11 00	13 00	18 00	12 00	16 00	16 01	24 00	28 00
51 00	35 00	42 00	51 00	39 00	50 00	48 01	74 00	82 00
18 01	13 01	15 01	18 01	14 01	18 01	14 02	26 01	28 01
80 01	44 01	51 01	80 01	47 01	58 01	35 02	84 01	92 01
22 02	16 02	19 02	22 02	18 02	22 02	90 02	30 02	33 02
72 02	54 02	62 02	71 02	58 02	70 02	21 03	96 02	10 03
28 03	20 03	22 03	25 03	21 03	25 03	55 03	34 03	37 03
60 03	61 03	69 03	79 03	85 03	78 03	14 04	10 04	11 04
27 04	21 04	23 04	27 04	22 04	26 04	39 04	36 04	39 04

101750	102000	102250	102500	102750	103000	103250	103500	103750
37-01	40-01	43-01	62-01	97-01	62-01	69-01	47-01	64-01
36 00	40 00	44 00	63 00	68 00	63 00	70 00	48 00	64 00
12 01	12 01	13 01	19 01	28 01	19 01	21 01	14 01	20 01
40 01	42 01	46 01	86 01	90 01	66 01	73 01	50 01	87 01
13 02	14 02	15 02	21 02	25 02	21 02	23 02	16 02	21 02
45 02	48 02	52 02	73 02	78 02	73 02	60 02	56 02	74 02
14 03	15 03	16 03	23 03	22 03	23 03	25 03	18 03	23 03
49 03	52 03	58 03	78 03	69 03	78 03	86 03	61 03	80 03
15 04	16 04	17 04	24 04	20 04	24 04	26 04	19 04	25 04
51 04	54 04	58 04	81 04	63 04	81 04	89 04	63 04	62 04

104000	104250	104500	104750	105000	105250	105500	5750	106000
32-01	22-01	24-01	26-01	29-01	54-01	30-01	31-01	32-01
32 00	22 00	24 00	26 00	28 00	54 00	30 00	32 00	33 00
99 00	66 00	75 00	81 00	87 00	16 01	94 00	98 00	10 01
34 01	24 01	26 01	28 01	30 01	52 01	33 01	34 01	35 01
11 02	76 01	85 01	91 01	96 01	15 02	10 02	11 02	11 02
39 02	28 02	31 02	33 02	34 02	47 02	36 02	36 02	40 02
12 03	91 02	98 02	10 03	11 03	14 03	12 03	12 03	12 03
43 03	32 03	34 03	36 03	38 03	44 03	42 03	43 03	44 03
13 04	96 03	11 04	11 04	12 04	13 04	13 04	13 04	14 04
45 04	33 04	36 04	36 04	40 04	42 04	43 04	44 04	46 04

106250	106500	106750	107000	107250	107500	107750	108000	108250
33-01	33-01	48-01	34-01	34-01	43-01	34-01	40-01	34-01
33 00	34 04	48 00	34 00	34 00	43 00	34 00	40 00	34 00
10 01	10 01	14 01	10 01	10 01	13 01	10 01	12 01	10 01
38 01	36 01	46 01	36 01	36 01	44 01	36 01	41 01	36 01
11 02	12 02	14 02	12 02	12 02	13 02	12 02	13 02	12 02
41 02	41 02	46 02	42 02	42 02	46 02	42 02	44 02	42 02
13 03	13 03	14 03	13 03	13 03	14 03	13 03	14 03	13 03
45 03	45 03	46 03	46 03	46 03	47 03	46 03	46 03	46 03
14 04	14 04	14 04	14 04	14 04	14 04	14 04	14 04	14 04
46 04	47 04	47 04	48 04	47 04	47 04	47 04	47 04	47 04







113000	113250	113500	113750	114000	114250	114500	114750	115000
34-01	34-01	34-01	13 00	34-01	34-01	34-01	34-01	34-01
34 00	34 00	34 00	13 01	34 00	34 00	34 00	34 00	34 00
10 01	10 01	10 01	37 01	10 01	10 01	10 01	10 01	10 01
36 01	36 01	36 01	11 02	36 01	36 01	36 01	36 01	36 01
12 02	12 02	12 02	30 02	12 02	12 02	12 02	12 02	12 02
42 02	42 02	42 02	84 02	42 02	42 02	42 02	42 02	42 02
13 03	13 03	13 03	21 03	13 03	13 03	13 03	13 03	13 03
46 03	46 03	46 03	63 03	46 03	46 03	46 03	46 03	46 03
14 04	14 04	14 04	17 04	14 04	14 04	14 04	14 04	14 04
47 04	47 04	47 04	53 04	47 04	47 04	47 04	47 04	47 04

























140000

34-01

34 00

10 01

36 01

12 02

42 02

13 03

46 03

14 04

47 04