

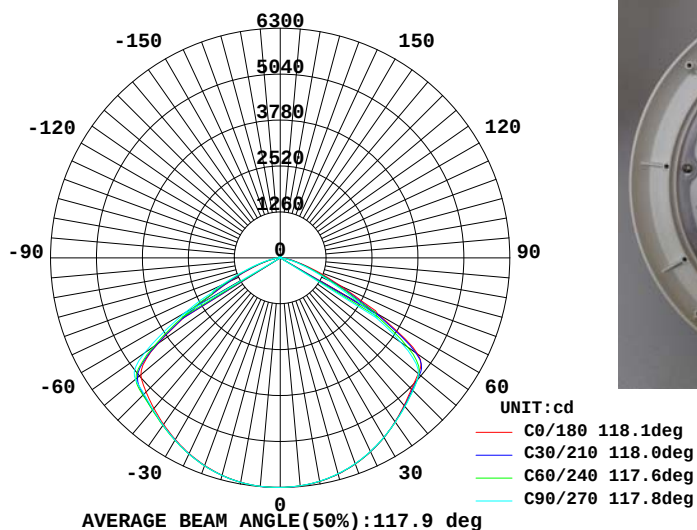
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Kolokol 100W 5000K 70Ra 120deg		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4889	DIMENSION: 300x300x113	SERIAL No.:

DATA OF LAMP		Imax(cd)	6301	S/MH(C0/180)	1.37
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.37
NOMINAL POWER(W)	100	TOTAL FLUX(lm)	18821.5	Voltage(V)	220.1
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	189.6	Current(A)	0.483
NOMINAL FLUX(lm)	18821.5	η up(%)	1.2	Power(W)	99.25
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.932
TEST VOLTAGE(V)	220.1	Effective Flux(lm)	18821.4	EEI	0.072

LUMINOUS INTENSITY DISTRIBUTION



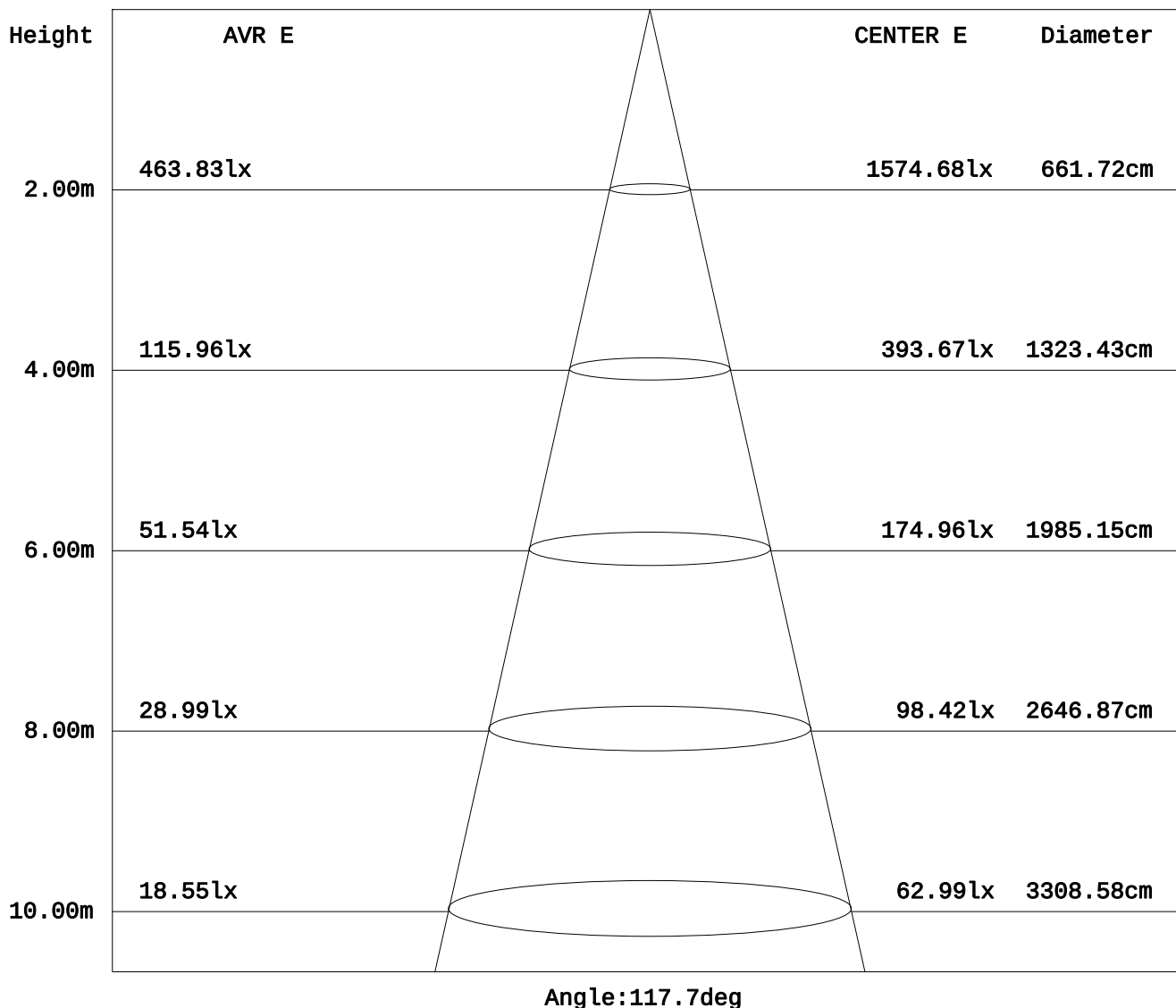
Temperature: 25.3°C
Operators:
Test Date: 11-23-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 10.000 m
Remarks: 73Ra 0.2% Flicker 46 Temp

AVERAGE AND CENTER E Figure

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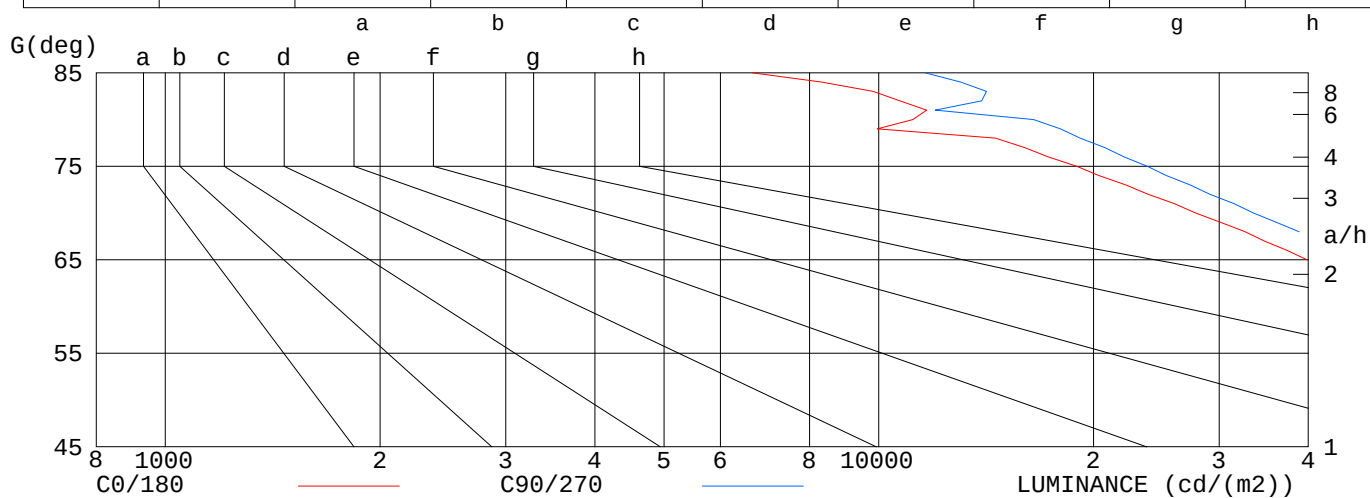
LUMINANCE LIMITATION CURVES

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NAME: Kolokol 100W 5000K 70Ra 120deg		TYPE:	WEIGHT:
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LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/m2		
G(deg)	C0/180	C90/270
85	6655	11614
80	11159	16476
75	18941	23796
70	27805	33507
65	39823	47156
60	58209	67604
55	78939	87963
50	86218	89637
45	81826	83043

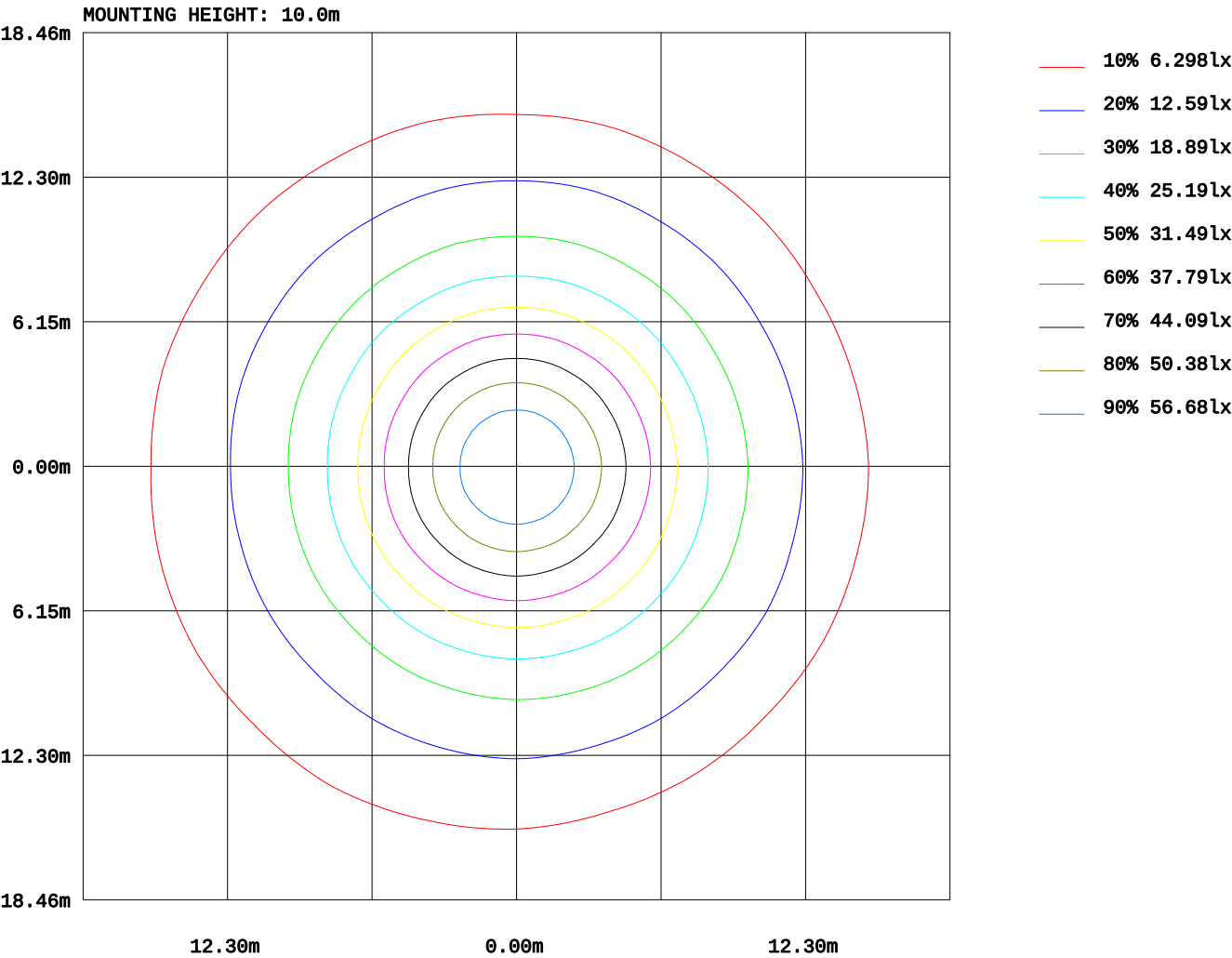
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ISOLUX DIAGRAM

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UGR Table

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NAME: Kolokol 100W 5000K 70Ra 120deg			TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4889	DIMENSION: 300x300x113		SERIAL No.:

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	27.8	29.3	28.1	29.5	29.7	28.2	29.7	28.5	29.9	30.1
3H	28.1	29.4	28.4	29.7	30.0	28.6	29.9	28.9	30.2	30.4
4H	28.1	29.4	28.5	29.7	29.9	28.7	29.9	29.0	30.2	30.5
6H	28.1	29.3	28.4	29.6	29.9	28.6	29.8	29.0	30.1	30.4
8H	28.0	29.2	28.4	29.5	29.8	28.6	29.7	29.0	30.0	30.4
12H	28.0	29.1	28.4	29.4	29.7	28.6	29.7	28.9	30.0	30.3
4H 2H	28.1	29.3	28.4	29.6	29.9	28.4	29.6	28.7	29.9	30.2
3H	28.4	29.5	28.8	29.8	30.2	28.9	30.0	29.2	30.3	30.6
4H	28.5	29.5	28.9	29.8	30.2	29.0	30.0	29.4	30.3	30.7
6H	28.5	29.4	28.9	29.7	30.1	29.0	29.9	29.4	30.2	30.6
8H	28.5	29.3	28.9	29.7	30.1	29.0	29.8	29.4	30.2	30.6
12H	28.4	29.2	28.9	29.6	30.0	29.0	29.7	29.4	30.1	30.5
8H 4H	28.5	29.3	28.9	29.7	30.1	28.9	29.7	29.4	30.1	30.5
6H	28.5	29.2	29.0	29.6	30.0	29.0	29.6	29.4	30.1	30.5
8H	28.5	29.1	29.0	29.5	30.0	29.0	29.6	29.5	30.0	30.5
12H	28.5	28.9	28.9	29.4	29.9	29.0	29.5	29.5	29.9	30.4
12H 4H	28.4	29.2	28.9	29.6	30.0	28.9	29.6	29.3	30.0	30.5
6H	28.5	29.0	28.9	29.5	30.0	29.0	29.5	29.4	30.0	30.5
8H	28.5	29.0	29.0	29.4	29.9	29.0	29.5	29.5	29.9	30.4

Variations with the observer position at spacings:

S = 1.0H	+ 0.3 / - 0.4	+ 0.1 / - 0.2
1.5H	+ 0.8 / - 1.4	+ 0.8 / - 1.3
2.0H	+ 1.4 / - 1.9	+ 1.4 / - 1.7

CIE Pub.117 Corrected 18822 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.2)

Temperature:25.3'C
Operators:
Test Date:11-23-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: 73Ra 0.2% Flicker 46 Temp

LUMINOUS DISTRIBUTION INTENSITY DATA

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Address:			
NAME: Kolokol 100W 5000K 70Ra 120deg		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4889	DIMENSION: 300x300x113	SERIAL No.:

UNIT: cd

C(deg) γ (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	6299	6298	6299	6300	6300	6300	6297	6299	6299	6300	6299	6301	6299	6298	6299
5.0	6292	6290	6295	6292	6294	6293	6292	6289	6291	6288	6290	6285	6281	6280	6278
10.0	6250	6246	6254	6251	6256	6253	6253	6249	6252	6245	6247	6240	6229	6231	6226
15.0	6174	6170	6180	6175	6181	6177	6181	6173	6178	6167	6170	6160	6142	6148	6137
20.0	6061	6056	6070	6062	6072	6065	6071	6062	6066	6051	6055	6044	6021	6027	6017
25.0	5921	5914	5931	5922	5935	5925	5933	5919	5923	5906	5910	5894	5869	5877	5866
30.0	5759	5754	5774	5766	5782	5769	5776	5757	5760	5737	5741	5723	5690	5707	5690
35.0	5577	5575	5606	5597	5616	5597	5603	5574	5577	5544	5546	5521	5493	5510	5500
40.0	5389	5399	5445	5436	5454	5427	5431	5393	5387	5340	5341	5310	5286	5311	5305
45.0	5207	5234	5309	5306	5327	5287	5285	5234	5220	5159	5154	5117	5091	5130	5122
50.0	4988	5008	5114	5113	5168	5141	5186	5127	5100	5011	5003	4959	4946	4997	4991
55.0	4075	4041	4120	4084	4225	4322	4541	4673	4760	4688	4710	4671	4608	4644	4536
60.0	2619	2582	2653	2641	2798	2990	3042	3079	3294	3296	3366	3310	3094	3180	3037
65.0	1515	1453	1549	1551	1678	1677	1794	1787	1950	1968	2059	2003	1852	1843	1699
70.0	856	797	886	868	963	951	1031	1024	1113	1100	1186	1130	1038	1017	929
75.0	441	406	466	445	510	491	554	543	602	581	648	592	528	541	473
80.0	174	152	168	170	171	194	258	223	287	244	305	242	214	249	187
85.0	52.2	20.6	57.0	28.0	73.7	42.8	91.0	55.1	109	69.4	117	64.4	48.5	84.5	38.2
90.0	18.2	8.29	18.1	8.00	18.6	7.70	19.5	7.60	20.9	7.70	21.2	7.60	7.90	18.9	7.70
95.0	19.1	11.7	18.7	11.2	18.6	10.8	18.4	10.4	18.2	10.1	18.4	10.1	10.9	18.5	10.9
100.0	21.4	15.8	21.1	15.2	20.7	14.7	20.4	14.2	20.1	13.9	20.1	13.9	15.0	20.7	15.0
105.0	24.6	20.2	24.2	19.6	23.9	19.2	23.4	18.6	23.0	18.1	23.0	18.2	19.7	24.0	19.7
110.0	28.7	25.0	28.2	24.6	27.7	24.0	27.2	23.5	26.8	23.0	26.6	23.1	24.7	28.0	24.7
115.0	33.0	30.0	32.5	29.4	32.0	29.0	31.7	28.4	31.0	27.9	30.8	28.0	30.0	32.5	29.9
120.0	37.0	34.4	36.2	33.7	35.9	33.5	35.7	33.0	35.0	32.5	34.9	32.7	34.9	36.7	34.5
125.0	40.9	38.5	39.7	37.5	39.5	37.9	39.7	37.2	38.7	36.5	38.6	37.0	39.2	40.7	38.6
130.0	44.4	42.2	43.2	41.5	43.0	41.9	43.3	41.2	42.2	40.4	42.2	41.2	43.2	44.5	42.5
135.0	47.5	45.7	46.7	45.1	46.5	45.5	46.7	44.8	45.6	44.2	45.7	44.9	46.9	47.9	46.5
140.0	50.7	49.2	49.9	48.6	50.0	49.2	49.9	48.2	49.0	47.9	49.3	48.5	50.1	51.2	49.9
145.0	54.0	52.7	53.2	52.2	53.2	53.1	53.2	51.7	52.2	51.5	52.7	52.4	53.6	54.5	53.2
150.0	57.0	55.8	56.4	55.6	56.5	56.6	56.5	55.1	55.5	55.0	56.0	56.3	56.8	58.0	56.5
155.0	59.2	58.2	58.7	58.2	59.3	59.5	59.2	58.0	58.6	58.0	59.1	59.2	59.2	60.9	59.2
160.0	60.9	59.7	60.3	59.8	61.1	61.1	61.2	59.8	60.5	60.0	61.1	61.1	61.2	62.8	61.0
165.0	62.5	61.0	61.6	61.0	62.4	62.3	63.0	61.2	61.9	61.2	62.5	62.5	63.0	63.8	62.0
170.0	64.2	62.4	62.9	62.3	63.5	63.3	64.6	62.5	63.2	62.6	63.7	63.5	64.5	64.4	63.0
175.0	65.5	63.5	64.0	63.5	64.3	63.9	65.8	63.7	64.3	63.7	64.6	64.2	65.5	64.9	63.7
180.0	66.0	64.2	64.5	64.0	64.6	64.2	66.0	64.3	64.7	64.2	64.8	64.5	66.0	64.8	64.0

Temperature:25.3'C
Operators:
Test Date:11-23-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: 73Ra 0.2% Flicker 46 Temp

LUMINOUS DISTRIBUTION INTENSITY DATA

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UNIT: cd

C(deg) γ (deg)	225	240	255	270	285	300	315	330	345
0.0	6300	6300	6300	6297	6299	6299	6300	6299	6301
5.0	6280	6279	6280	6277	6281	6280	6284	6283	6287
10.0	6230	6224	6230	6222	6229	6225	6233	6231	6238
15.0	6145	6135	6143	6131	6142	6135	6147	6142	6155
20.0	6026	6014	6022	6010	6021	6014	6026	6023	6038
25.0	5878	5863	5873	5858	5871	5863	5878	5873	5891
30.0	5709	5689	5704	5684	5703	5688	5711	5697	5725
35.0	5521	5505	5521	5504	5520	5502	5518	5505	5533
40.0	5335	5320	5343	5324	5339	5308	5319	5298	5332
45.0	5164	5144	5177	5149	5170	5118	5131	5096	5142
50.0	5023	4968	4988	4951	4968	4900	4907	4854	4898
55.0	4451	4264	4209	4035	4066	3948	3904	3796	3887
60.0	2966	3018	2754	2560	2578	2437	2470	2358	2471
65.0	1733	1622	1620	1471	1462	1359	1446	1385	1434
70.0	975	892	908	802	809	725	800	749	797
75.0	511	439	467	393	417	351	404	362	403
80.0	169	161	168	141	172	125	170	124	174
85.0	67.9	24.6	50.8	16.3	41.0	13.5	37.0	13.4	39.0
90.0	18.2	8.00	18.0	8.40	18.0	8.80	18.1	9.09	18.4
95.0	18.5	11.3	18.7	11.9	19.1	12.4	19.4	12.7	19.5
100.0	20.9	15.5	21.2	16.2	21.7	16.7	22.1	17.0	22.2
105.0	24.2	20.2	24.6	21.1	25.4	21.6	25.7	21.7	25.7
110.0	28.4	25.2	29.0	26.1	29.6	26.6	29.9	26.6	29.9
115.0	32.7	30.4	33.3	31.4	34.0	31.5	34.2	31.6	34.2
120.0	37.0	35.0	37.5	36.0	38.1	35.9	38.1	35.9	38.2
125.0	40.5	38.9	41.5	40.2	41.9	39.7	41.5	39.7	42.0
130.0	44.1	42.6	45.1	44.2	45.5	43.5	44.9	43.5	45.5
135.0	47.5	46.5	48.2	47.6	48.6	47.4	48.2	47.2	48.6
140.0	50.8	49.7	51.3	50.7	52.0	50.7	51.4	50.5	51.7
145.0	53.8	53.2	54.4	54.1	55.5	54.2	54.7	53.7	54.9
150.0	57.0	56.3	57.4	57.0	58.7	57.2	57.5	56.6	57.7
155.0	59.7	58.7	59.8	59.2	61.1	59.3	59.8	58.7	59.7
160.0	61.5	60.3	61.5	60.9	62.8	60.9	61.2	60.1	61.1
165.0	62.5	61.5	62.5	62.4	63.7	62.0	62.3	61.2	62.3
170.0	63.5	62.6	63.5	63.8	64.5	63.0	63.4	62.5	63.4
175.0	64.4	63.7	64.4	65.1	65.0	63.8	64.4	63.7	64.5
180.0	64.6	64.0	64.8	65.5	64.9	64.0	64.7	64.2	65.0

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