

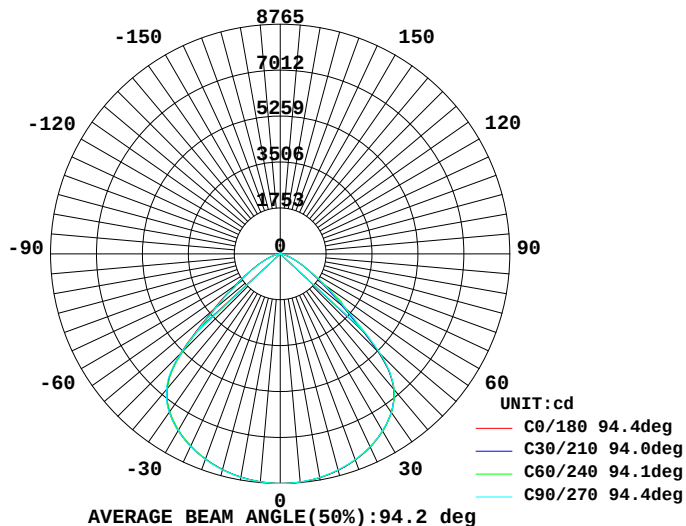
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Kolokol 100W 5000K 70Ra		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5056	DIMENSION: 264x264x120	SERIAL No.:

DATA OF LAMP		Imax(cd)	8767	S/MH(C0/180)	1.32
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.32
NOMINAL POWER(W)	102	TOTAL FLUX(lm)	18806.0	Voltage(V)	220.1
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	184.7	Current(A)	0.479
NOMINAL FLUX(lm)	18806.0	η up(%)	1.2	Power(W)	101.8
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.964
TEST VOLTAGE(V)	220.2	Effective Flux(lm)	18806.0	EEI	0.074

LUMINOUS INTENSITY DISTRIBUTION



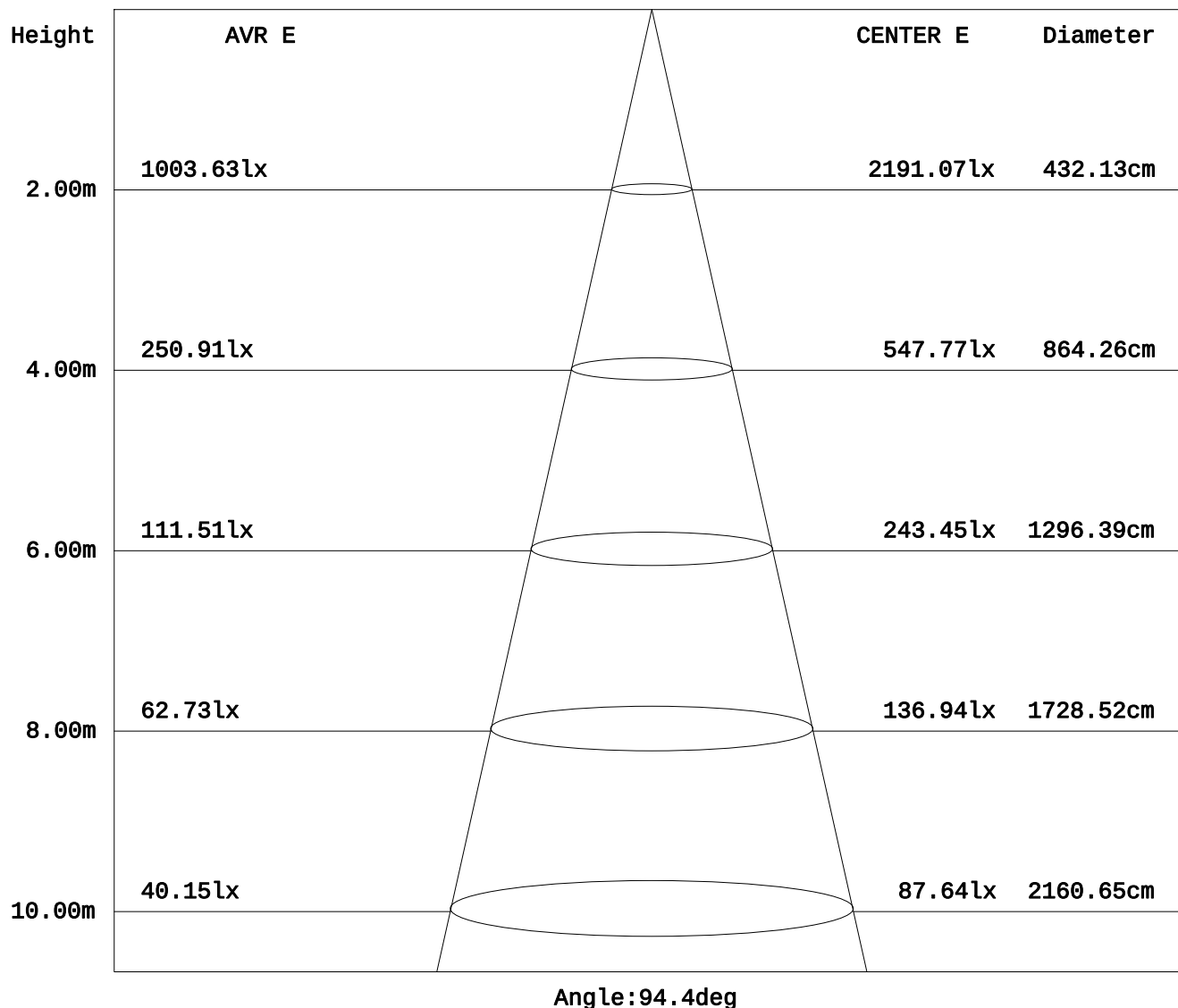
Temperature: 25.3°C
 Operators:
 Test Date: 11-24-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks: 73Ra 0.3% Flicker 53.9 Temp

AVERAGE AND CENTER E Figure

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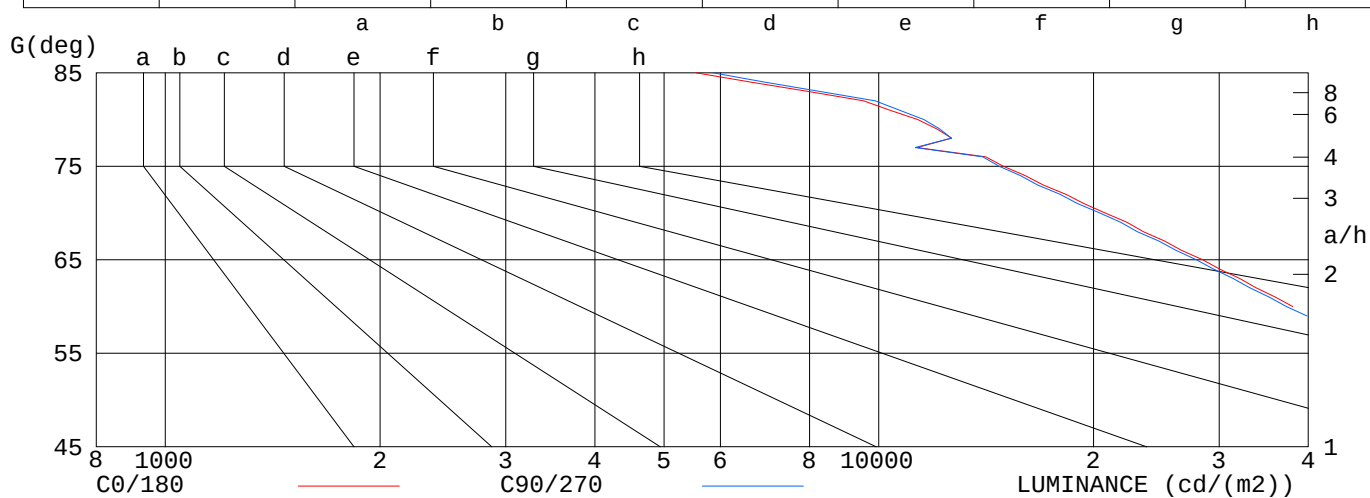
LUMINANCE LIMITATION CURVES

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NAME: Kolokol 100W 5000K 70Ra		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5056	DIMENSION: 264x264x120	SERIAL No.:

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	5548	5861
80	11345	11568
75	14957	14757
70	20770	20422
65	28450	27863
60	38037	37259
55	52599	51271
50	75788	72527
45	108923	108688

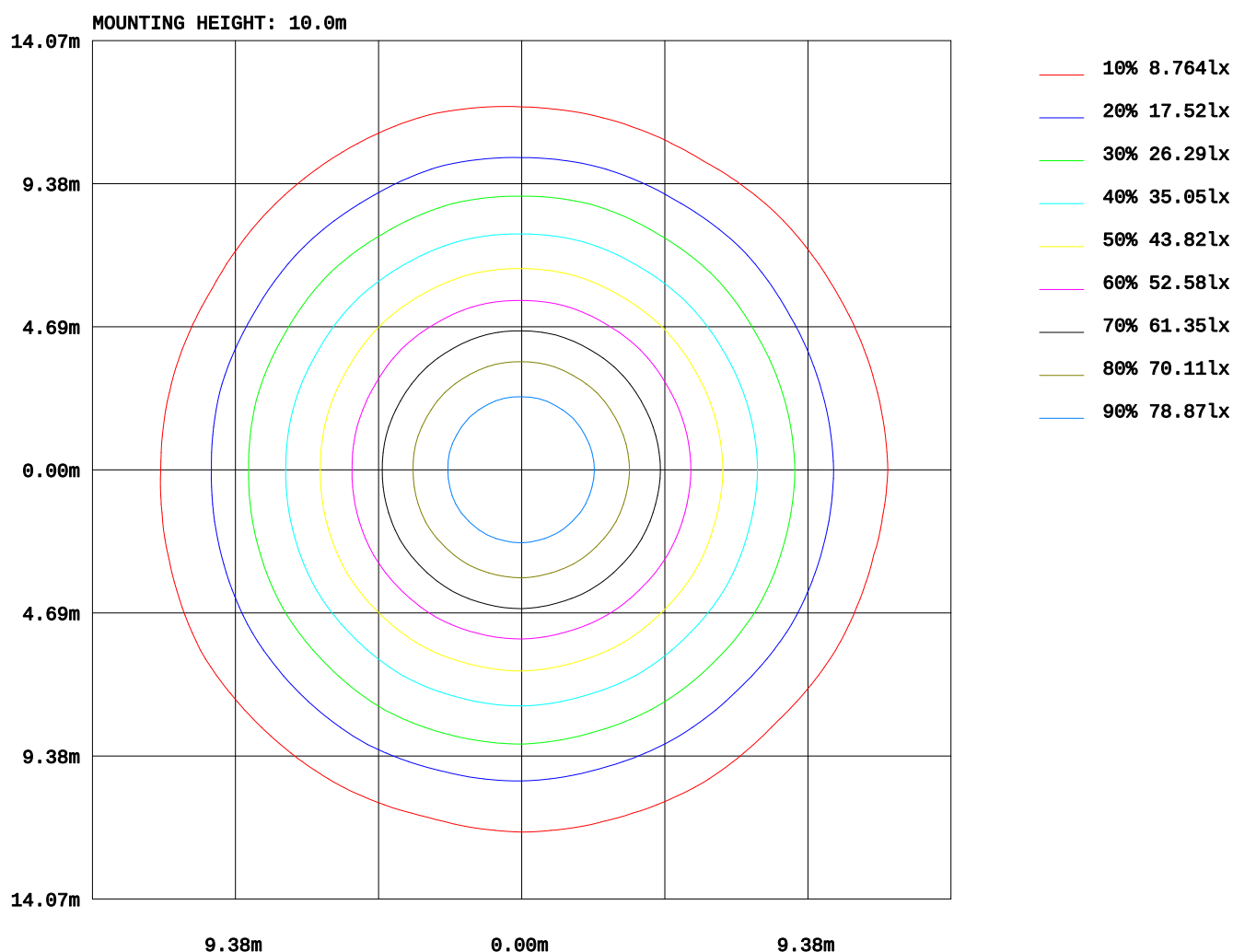
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ISOLUX DIAGRAM

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UGR Table

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Address:				
NAME: Kolokol 100W 5000K 70Ra			TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5056	DIMENSION: 264x264x120		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	26.2	27.5	26.5	27.7	27.9	26.1	27.4	26.4	27.6	27.8
3H	26.3	27.5	26.6	27.8	28.0	26.2	27.4	26.5	27.6	27.9
4H	26.3	27.4	26.7	27.7	28.0	26.2	27.3	26.5	27.6	27.8
6H	26.3	27.3	26.6	27.6	27.9	26.2	27.2	26.5	27.5	27.8
8H	26.3	27.2	26.6	27.5	27.8	26.1	27.1	26.5	27.4	27.7
12H	26.2	27.2	26.6	27.5	27.8	26.1	27.0	26.5	27.3	27.7
4H 2H	26.2	27.3	26.5	27.6	27.9	26.1	27.2	26.5	27.5	27.8
3H	26.4	27.4	26.8	27.7	28.0	26.3	27.3	26.7	27.6	27.9
4H	26.5	27.3	26.9	27.7	28.0	26.3	27.2	26.7	27.5	27.9
6H	26.5	27.2	26.9	27.6	28.0	26.3	27.1	26.7	27.4	27.8
8H	26.4	27.1	26.9	27.5	27.9	26.3	27.0	26.7	27.4	27.8
12H	26.4	27.0	26.8	27.4	27.8	26.3	26.9	26.7	27.3	27.7
8H 4H	26.4	27.1	26.8	27.5	27.9	26.3	27.0	26.7	27.4	27.8
6H	26.4	27.0	26.9	27.4	27.9	26.3	26.9	26.8	27.3	27.7
8H	26.4	26.9	26.9	27.3	27.8	26.3	26.8	26.8	27.2	27.7
12H	26.4	26.8	26.9	27.3	27.8	26.2	26.7	26.7	27.1	27.6
12H 4H	26.4	27.0	26.8	27.4	27.8	26.2	26.9	26.7	27.3	27.7
6H	26.4	26.9	26.9	27.3	27.8	26.3	26.8	26.7	27.2	27.7
8H	26.4	26.8	26.9	27.3	27.8	26.2	26.7	26.7	27.1	27.6

Variations with the observer position at spacings:

S = 1.0H	+ 1.5 / - 1.9	+ 1.6 / - 2.0
1.5H	+ 1.1 / - 1.5	+ 1.1 / - 1.6
2.0H	+ 3.3 / - 2.5	+ 3.4 / - 2.6

CIE Pub.117 Corrected 18806 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.2)

Temperature:25.3'C
Operators:
Test Date:11-24-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: 73Ra 0.3% Flicker 53.9 Temp

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:															
Address:															
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SPECIFICATION:				CCT(K): 5056				DIMENSION: 264x264x120				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	8764	8766	8762	8765	8763	8762	8762	8761	8760	8764	8763	8760	8764	8766	8762
5.0	8735	8730	8732	8728	8734	8729	8737	8735	8742	8743	8748	8744	8746	8750	8744
10.0	8655	8645	8650	8646	8653	8649	8662	8660	8672	8673	8684	8679	8678	8686	8675
15.0	8524	8511	8519	8510	8521	8515	8535	8533	8552	8552	8567	8557	8554	8563	8550
20.0	8345	8325	8337	8316	8334	8320	8354	8350	8381	8376	8397	8379	8372	8384	8368
25.0	8106	8085	8092	8070	8087	8073	8111	8113	8149	8146	8168	8147	8134	8147	8129
30.0	7795	7767	7779	7746	7765	7748	7793	7798	7847	7842	7869	7839	7816	7833	7810
35.0	7386	7335	7365	7311	7352	7318	7392	7382	7452	7430	7476	7423	7391	7410	7382
40.0	6731	6692	6731	6671	6708	6676	6772	6783	6868	6831	6863	6789	6749	6789	6749
45.0	5368	5322	5342	5185	5234	5205	5356	5417	5603	5569	5580	5422	5325	5394	5318
50.0	3395	3213	3241	3101	3228	3171	3249	3141	3325	3401	3504	3308	3184	3161	3084
55.0	2103	1960	2093	2104	2048	1904	2050	2113	2114	1994	2126	2172	1992	1924	1934
60.0	1326	1213	1324	1352	1291	1151	1298	1353	1337	1219	1349	1376	1243	1185	1223
65.0	838	730	844	789	804	694	821	792	846	736	839	803	753	732	756
70.0	495	433	497	456	471	412	487	459	501	438	490	462	438	450	440
75.0	270	227	271	229	258	216	266	234	276	229	269	234	219	259	221
80.0	137	100	139	95.7	134	96.5	140	102	144	102	140	100	93.1	134	94.1
85.0	33.7	14.7	34.2	15.6	34.0	15.6	35.6	16.5	36.5	16.5	36.8	17.2	16.3	35.0	15.2
90.0	14.7	5.70	14.7	5.80	14.5	5.70	14.7	5.70	14.7	5.60	14.7	5.70	5.90	14.4	5.70
95.0	14.0	7.30	14.0	7.50	14.0	7.50	14.0	7.40	13.9	7.30	14.0	7.50	7.70	14.0	7.50
100.0	14.9	9.90	14.9	10.0	15.0	10.1	15.0	9.90	14.9	9.90	15.0	10.1	10.5	15.0	10.1
105.0	17.4	13.7	17.2	13.7	17.6	14.0	17.5	13.7	17.2	13.7	17.4	13.9	14.5	17.7	14.1
110.0	21.1	18.7	21.1	18.7	21.2	19.1	21.4	18.7	21.1	18.7	21.1	18.7	19.6	21.7	19.2
115.0	26.1	24.4	26.0	24.5	26.1	24.7	26.3	24.4	26.0	24.2	26.0	24.2	25.6	26.9	25.0
120.0	31.9	30.7	31.7	30.7	31.9	31.0	32.1	30.7	31.6	30.5	31.6	30.5	32.2	32.7	31.6
125.0	37.9	37.5	37.5	37.2	37.7	37.7	38.1	37.4	37.5	37.2	37.5	37.2	39.0	38.9	38.2
130.0	44.1	43.7	43.7	43.3	43.7	44.0	44.2	43.7	43.5	43.2	43.3	43.5	45.5	45.0	44.4
135.0	50.0	49.7	49.2	48.8	49.3	50.0	50.3	49.7	49.0	48.7	49.0	49.5	51.5	51.0	50.3
140.0	55.2	55.2	54.4	54.5	54.7	55.8	55.6	55.2	54.2	54.4	54.2	55.1	57.2	56.3	56.0
145.0	60.2	60.2	59.7	60.1	60.2	61.1	60.6	60.2	59.6	59.7	59.7	60.6	62.0	61.5	61.4
150.0	65.0	65.3	64.8	65.5	65.5	66.9	65.5	65.4	64.6	65.2	65.0	66.2	67.0	66.9	66.5
155.0	70.0	70.5	69.8	71.0	70.8	72.5	70.7	70.8	69.8	70.7	70.4	72.0	72.2	72.2	72.0
160.0	75.8	76.0	75.0	76.3	76.4	78.0	76.5	76.2	75.1	76.3	76.0	77.7	77.7	77.7	77.1
165.0	81.3	80.6	79.9	80.8	81.0	82.5	81.9	80.9	80.0	80.8	80.9	82.4	82.7	82.3	81.5
170.0	85.3	84.0	83.6	83.9	84.3	85.2	85.9	84.0	83.8	84.0	84.4	85.2	86.5	85.2	84.5
175.0	88.2	86.1	86.0	86.0	86.4	86.7	88.4	86.2	86.1	86.2	86.5	87.0	88.7	87.0	86.2
180.0	89.3	87.1	87.0	86.7	87.0	87.0	89.2	87.3	87.1	87.0	87.3	87.4	89.4	87.5	86.9

Temperature:25.3'C
Operators:
Test Date:11-24-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: 73Ra 0.3% Flicker 53.9 Temp

LUMINOUS DISTRIBUTION INTENSITY DATA

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SPECIFICATION:	CCT(K): 5056	DIMENSION: 264x264x120	SERIAL No.:

UNIT: cd

C(deg) γ (deg)	225	240	255	270	285	300	315	330	345
0.0	8765	8763	8762	8762	8761	8760	8764	8763	8760
5.0	8748	8743	8742	8737	8737	8730	8733	8725	8727
10.0	8681	8672	8672	8662	8664	8650	8656	8644	8647
15.0	8559	8546	8550	8534	8536	8518	8524	8509	8515
20.0	8381	8366	8373	8352	8354	8327	8336	8317	8327
25.0	8151	8132	8143	8114	8117	8081	8091	8070	8087
30.0	7844	7823	7839	7803	7806	7756	7769	7744	7772
35.0	7430	7404	7427	7380	7386	7325	7341	7306	7345
40.0	6812	6777	6818	6759	6776	6693	6711	6643	6684
45.0	5431	5414	5529	5435	5444	5320	5372	5241	5281
50.0	3235	3337	3441	3261	3188	3062	3186	3199	3291
55.0	2166	2109	2069	2019	2126	1910	1902	1974	2164
60.0	1402	1290	1259	1254	1358	1194	1169	1229	1401
65.0	831	778	766	761	801	731	722	751	809
70.0	488	447	460	439	472	428	440	434	472
75.0	269	218	258	216	260	214	249	214	260
80.0	137	91.0	132	87.9	130	88.2	128	87.6	131
85.0	33.2	14.4	31.9	13.7	31.5	13.6	31.7	13.9	32.3
90.0	14.5	5.70	14.4	5.70	14.5	5.70	14.3	5.80	14.5
95.0	14.1	7.40	13.7	7.40	14.0	7.50	13.9	7.60	14.1
100.0	15.0	10.0	14.9	10.1	15.0	10.2	15.0	10.4	15.0
105.0	17.6	13.9	17.5	14.1	17.6	14.3	17.8	14.4	17.8
110.0	21.5	19.1	21.5	19.2	21.6	19.5	21.9	19.6	21.9
115.0	26.4	24.9	26.4	25.0	26.8	25.4	27.0	25.5	26.9
120.0	32.3	31.2	32.4	31.7	32.6	31.9	32.9	32.0	32.7
125.0	38.4	38.0	38.6	38.5	38.7	38.5	39.0	38.7	38.9
130.0	44.5	44.2	44.7	45.0	45.0	44.7	45.1	44.7	45.2
135.0	49.9	49.9	50.7	51.2	51.0	50.5	50.3	50.4	51.0
140.0	55.0	55.5	55.9	56.8	56.4	56.0	55.4	55.9	56.3
145.0	60.5	60.9	60.9	61.5	61.5	61.4	60.7	61.2	61.4
150.0	65.6	66.0	65.6	66.3	66.7	66.6	65.9	66.2	66.1
155.0	70.7	71.1	70.5	71.5	72.1	72.0	71.0	71.5	71.1
160.0	76.0	76.2	75.7	76.8	77.7	77.3	76.2	76.5	76.3
165.0	80.5	80.5	80.4	81.9	82.3	81.6	80.8	81.0	80.8
170.0	83.8	84.0	83.8	85.6	85.3	84.6	84.0	84.1	84.1
175.0	86.0	86.0	86.1	88.0	87.0	86.2	86.2	86.1	86.5
180.0	87.0	86.7	87.4	89.0	87.5	86.9	87.1	87.0	87.5

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