

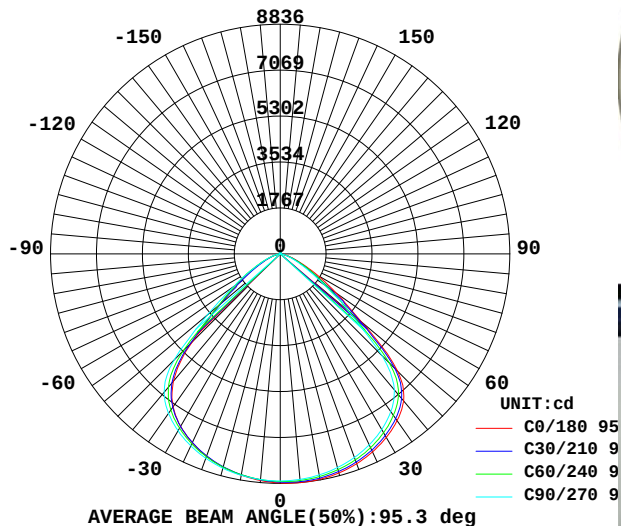
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Kolokol 100W 90deg. 30min		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5083	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	8836	S/MH(C0/180)	1.29
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.34
NOMINAL POWER(W)	102	TOTAL FLUX(lm)	19200.3	Voltage(V)	220.1
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	190.1	Current(A)	0.471
NOMINAL FLUX(lm)	19200.3	η up(%)	1.2	Power(W)	101.0
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.973
TEST VOLTAGE(V)	220.1	Effective Flux(lm)	19200.2	EEI	0.072

LUMINOUS INTENSITY DISTRIBUTION



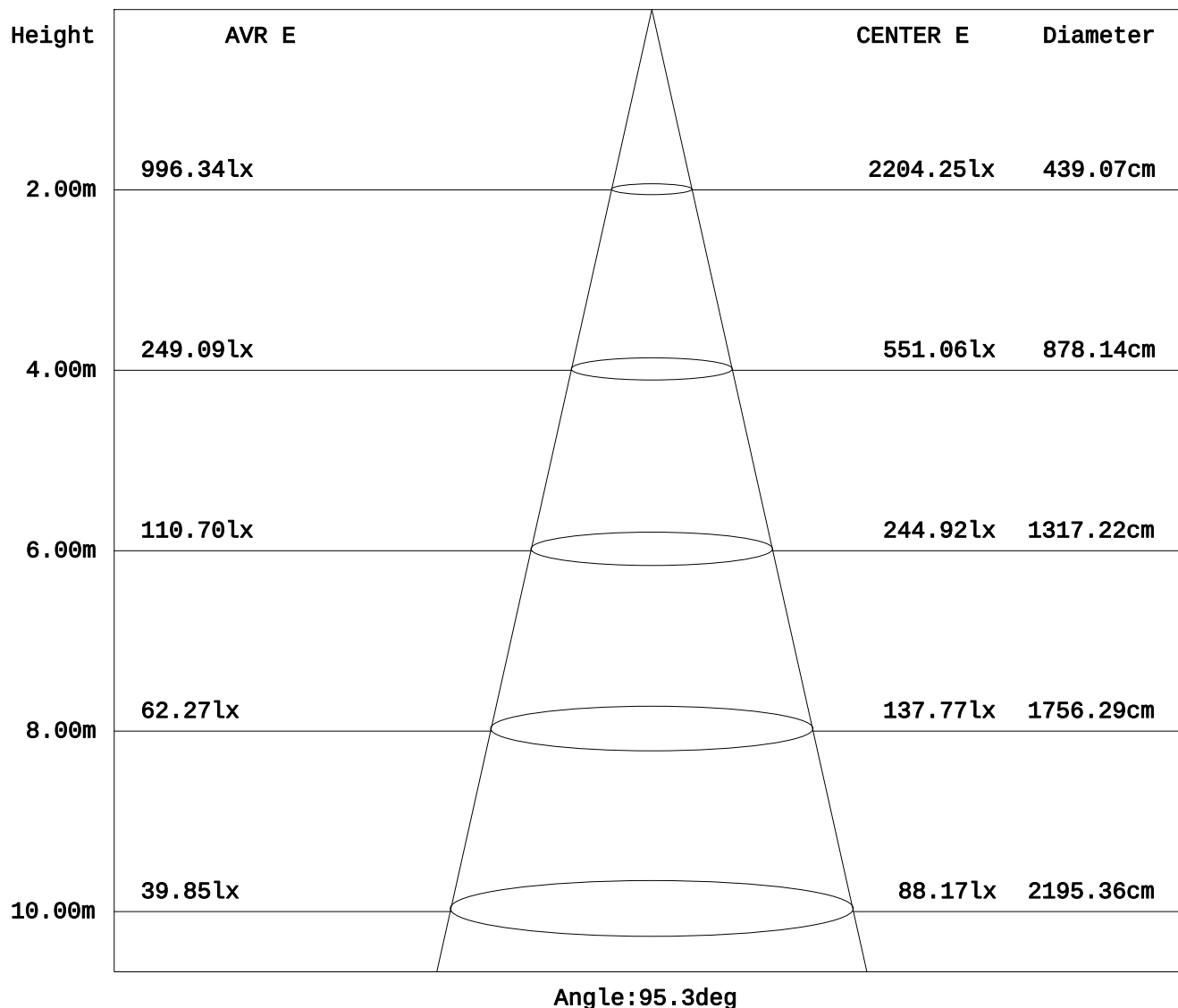
Test System: HOP00 HPG1800
 Temperature: 25.3°C
 Operators:
 Test Date: 11-29-2022

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks: 71Ra. 0.1% Flickering.

AVERAGE AND CENTER E Figure

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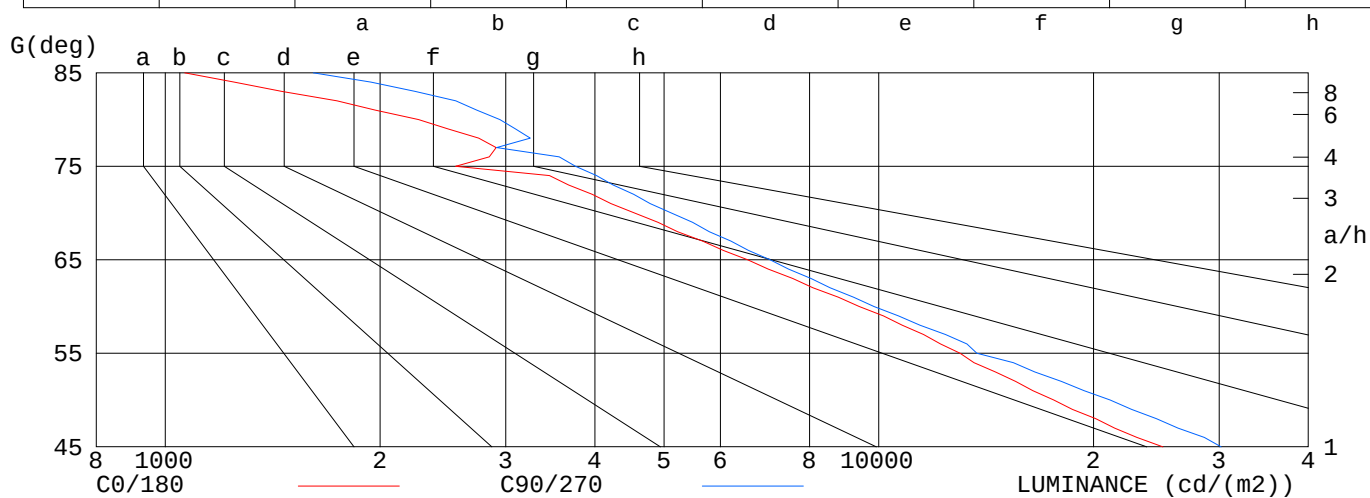
LUMINANCE LIMITATION CURVES

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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	1065	1612
80	2264	2943
75	2552	3758
70	4547	5122
65	6548	7040
60	9388	9845
55	13001	13721
50	17586	21096
45	25011	30193

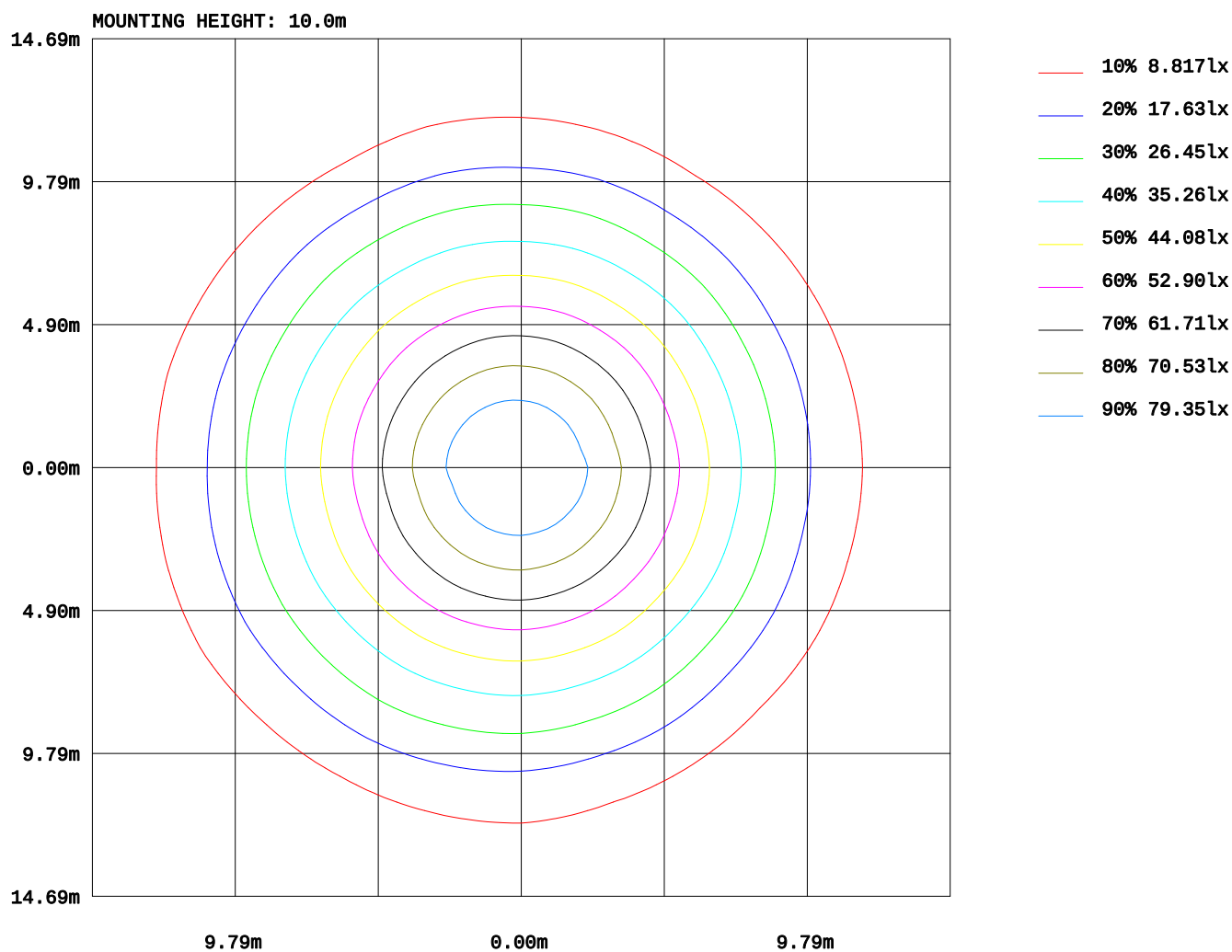
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ISOLUX DIAGRAM

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UGR Table

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SPECIFICATION:	CCT(K): 5083	DIMENSION:		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	21.0	22.2	21.2	22.5	22.7	21.5	22.8	21.8	23.0	23.2
3H	21.0	22.2	21.3	22.5	22.7	21.6	22.8	21.9	23.1	23.3
4H	21.0	22.1	21.3	22.4	22.6	21.6	22.7	21.9	23.0	23.3
6H	20.9	22.0	21.3	22.3	22.6	21.6	22.6	21.9	22.9	23.2
8H	20.9	21.9	21.3	22.2	22.5	21.5	22.5	21.9	22.8	23.1
12H	20.9	21.8	21.2	22.1	22.4	21.5	22.5	21.9	22.8	23.1
4H 2H	21.0	22.1	21.3	22.3	22.6	21.5	22.6	21.8	22.8	23.1
3H	21.1	22.1	21.5	22.4	22.7	21.7	22.6	22.0	22.9	23.3
4H	21.1	22.0	21.5	22.3	22.7	21.7	22.6	22.1	22.9	23.2
6H	21.1	21.8	21.5	22.2	22.6	21.7	22.4	22.1	22.8	23.2
8H	21.0	21.7	21.5	22.1	22.5	21.6	22.3	22.1	22.7	23.1
12H	21.0	21.6	21.4	22.0	22.5	21.6	22.2	22.0	22.6	23.1
8H 4H	21.0	21.7	21.5	22.1	22.5	21.6	22.3	22.0	22.7	23.1
6H	21.0	21.6	21.5	22.0	22.5	21.6	22.2	22.0	22.6	23.0
8H	21.0	21.5	21.5	21.9	22.4	21.6	22.1	22.0	22.5	23.0
12H	20.9	21.4	21.4	21.8	22.3	21.5	22.0	22.0	22.4	22.9
12H 4H	21.0	21.6	21.4	22.0	22.5	21.6	22.2	22.0	22.6	23.0
6H	21.0	21.5	21.4	21.9	22.4	21.5	22.0	22.0	22.5	23.0
8H	20.9	21.4	21.4	21.8	22.3	21.5	22.0	22.0	22.4	22.9

Variations with the observer position at spacings:

S = 1.0H	+ 1.7 / - 2.1	+ 1.6 / - 1.8
1.5H	+ 1.1 / - 1.9	+ 1.3 / - 1.6
2.0H	+ 3.2 / - 3.1	+ 3.6 / - 2.8

CIE Pub.117 Corrected 19200 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.3)

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LUMINOUS DISTRIBUTION INTENSITY DATA

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SPECIFICATION:	CCT(K): 5083	DIMENSION:	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	8817	8800	8784	8770	8759	8747	8739	8732	8723	8716	8710	8706	8817	8800	8784
5.0	8756	8735	8729	8716	8719	8714	8719	8719	8725	8724	8727	8726	8836	8819	8797
10.0	8648	8628	8629	8620	8632	8635	8653	8665	8681	8687	8699	8699	8807	8791	8760
15.0	8492	8472	8478	8471	8495	8505	8538	8556	8586	8600	8621	8621	8729	8711	8672
20.0	8287	8259	8276	8270	8310	8322	8374	8396	8443	8459	8493	8490	8593	8575	8529
25.0	8017	7991	8010	8015	8066	8089	8151	8187	8245	8270	8309	8310	8408	8390	8336
30.0	7665	7635	7670	7677	7746	7781	7864	7909	7987	8017	8066	8069	8160	8144	8078
35.0	7186	7141	7213	7226	7340	7379	7497	7546	7660	7687	7759	7753	7837	7821	7741
40.0	6399	6368	6485	6541	6698	6783	6952	7048	7201	7246	7329	7325	7389	7372	7271
45.0	4782	4743	4925	4996	5281	5444	5773	5990	6291	6396	6506	6450	6398	6394	6251
50.0	3057	2997	2992	2961	3117	3271	3667	3679	3826	4023	4357	4273	4091	4150	3946
55.0	2016	1856	1861	1874	2105	2111	2128	2247	2403	2362	2547	2588	2630	2536	2339
60.0	1269	1145	1143	1189	1378	1321	1331	1383	1593	1475	1507	1604	1689	1585	1406
65.0	748	686	705	728	829	802	805	832	965	915	906	986	979	981	835
70.0	421	390	414	420	475	458	474	481	562	542	525	570	555	580	479
75.0	179	182	175	207	169	215	263	235	294	255	247	318	316	297	217
80.0	106	51.3	90.1	79.7	92.4	65.0	138	81.1	122	114	108	102	125	125	87.0
85.0	25.0	10.1	26.4	13.9	30.0	12.9	38.0	13.6	35.9	26.1	43.5	20.2	24.9	39.7	23.5
90.0	13.7	6.50	13.6	6.10	13.7	6.00	13.7	5.90	14.1	5.50	14.2	5.70	5.70	14.2	5.60
95.0	13.9	8.40	13.6	8.00	13.5	7.80	13.5	7.40	13.3	7.10	13.0	7.10	7.40	13.3	7.10
100.0	15.6	11.5	15.2	10.9	14.9	10.5	14.7	10.0	14.3	9.50	14.0	9.40	9.70	14.2	9.60
105.0	18.7	15.9	18.4	15.2	17.8	14.5	17.4	13.9	16.6	13.0	16.3	12.8	13.4	16.5	13.2
110.0	23.2	21.2	22.7	20.4	21.9	19.6	21.4	18.7	20.4	17.8	19.7	17.4	18.2	20.2	18.0
115.0	28.6	27.2	28.0	26.1	27.0	25.4	26.3	24.2	25.0	23.1	24.4	22.7	23.8	24.9	23.5
120.0	34.5	33.5	33.7	32.6	32.7	31.7	32.0	30.3	30.5	29.1	29.6	28.6	30.1	30.5	29.6
125.0	40.5	39.8	39.5	38.8	38.4	37.9	37.7	36.5	36.0	35.2	35.2	34.7	36.5	36.1	36.0
130.0	46.5	45.7	45.0	44.2	44.1	44.1	43.7	42.3	41.6	40.7	40.7	40.7	42.8	42.0	41.8
135.0	52.2	51.3	50.1	49.9	49.5	49.9	49.3	48.1	46.7	46.2	46.0	46.5	48.8	47.9	47.5
140.0	57.2	56.8	55.5	55.6	54.7	55.5	54.5	53.5	52.0	52.0	51.4	52.2	54.5	53.2	53.2
145.0	62.3	62.0	60.7	61.0	60.2	61.0	59.3	58.7	57.4	57.5	56.6	57.7	59.6	58.7	58.7
150.0	67.6	67.5	66.0	66.6	65.9	67.1	64.7	64.2	62.6	63.0	62.3	63.7	65.1	64.6	64.4
155.0	73.2	73.4	71.5	72.5	71.6	73.5	70.3	70.0	68.1	69.0	68.0	70.0	71.0	70.4	70.3
160.0	78.5	78.5	77.0	77.9	77.4	78.8	76.0	75.5	73.9	74.6	74.0	76.0	76.9	76.0	75.9
165.0	83.4	82.7	81.5	82.0	81.9	83.3	81.4	80.4	79.0	79.6	79.4	81.0	82.4	81.1	80.5
170.0	86.6	85.2	84.5	84.7	84.8	85.6	85.2	83.8	82.8	83.2	83.2	84.4	86.5	84.5	84.0
175.0	88.9	86.9	86.5	86.5	86.5	86.9	88.0	85.7	85.3	85.5	85.5	86.1	89.0	86.6	86.0
180.0	89.7	87.5	87.0	86.7	86.9	86.9	88.8	86.7	86.4	86.4	86.5	86.7	90.0	87.5	87.0

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Test Set: 5.0deg/s C-Gamma (TYPE C)
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UNIT: cd

C(deg) γ (deg)	225	240	255	270	285	300	315	330	345
0.0	8770	8759	8747	8739	8732	8723	8716	8710	8706
5.0	8777	8755	8733	8713	8698	8678	8665	8649	8643
10.0	8735	8701	8675	8638	8619	8585	8570	8543	8540
15.0	8642	8596	8562	8515	8488	8444	8423	8391	8386
20.0	8495	8439	8399	8338	8303	8249	8224	8182	8177
25.0	8299	8230	8184	8110	8070	8000	7971	7921	7916
30.0	8038	7951	7899	7810	7765	7680	7642	7575	7571
35.0	7697	7588	7524	7413	7361	7253	7206	7111	7100
40.0	7228	7085	6993	6833	6766	6617	6550	6399	6364
45.0	6182	5939	5821	5563	5428	5176	5070	4885	4824
50.0	3714	3484	3552	3402	3211	2980	2931	3036	2994
55.0	2159	2239	2130	2047	2064	1930	1847	1742	1888
60.0	1485	1447	1359	1214	1292	1224	1159	1051	1168
65.0	926	866	815	712	788	720	708	631	702
70.0	549	494	478	414	452	406	418	362	401
75.0	300	224	257	205	172	165	179	159	176
80.0	144	66.5	116	86.4	83.2	57.4	106	50.5	77.7
85.0	46.7	15.6	27.2	11.4	26.1	12.1	28.2	11.1	22.0
90.0	14.1	5.80	13.7	5.80	13.5	6.10	13.5	6.30	13.6
95.0	13.4	7.40	13.3	7.70	13.4	8.00	13.6	8.29	13.7
100.0	14.3	9.90	14.5	10.4	14.8	10.9	15.2	11.5	15.6
105.0	16.6	13.7	17.2	14.5	17.9	15.2	18.5	16.1	19.1
110.0	20.4	18.6	21.1	19.7	22.1	20.7	23.0	21.6	23.7
115.0	25.2	24.2	26.1	25.7	27.2	26.6	28.4	27.7	29.1
120.0	30.7	30.3	31.7	32.2	33.1	33.0	34.2	34.2	35.2
125.0	36.3	36.5	37.5	38.6	39.0	39.2	40.0	40.5	41.1
130.0	42.0	42.3	43.3	44.8	44.8	45.0	45.4	46.0	46.9
135.0	47.2	48.0	49.0	50.5	50.4	50.5	50.5	51.4	52.3
140.0	52.6	53.6	54.0	55.8	55.5	56.0	55.8	57.0	57.3
145.0	58.0	58.8	59.1	60.6	60.7	61.2	61.0	62.0	62.3
150.0	63.3	64.2	64.2	65.9	66.3	66.9	66.2	67.5	67.4
155.0	68.8	69.8	69.5	71.5	72.1	72.6	71.8	72.8	72.6
160.0	74.2	75.1	75.0	77.2	77.7	77.9	76.9	77.8	77.7
165.0	79.2	80.0	79.7	82.2	82.2	81.9	81.1	81.6	81.6
170.0	83.0	83.6	83.3	85.7	85.0	84.5	84.0	84.4	84.4
175.0	85.5	85.7	85.6	87.9	86.5	85.9	85.7	85.9	86.0
180.0	86.9	86.7	87.0	88.7	86.9	86.4	86.5	86.4	86.6

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