

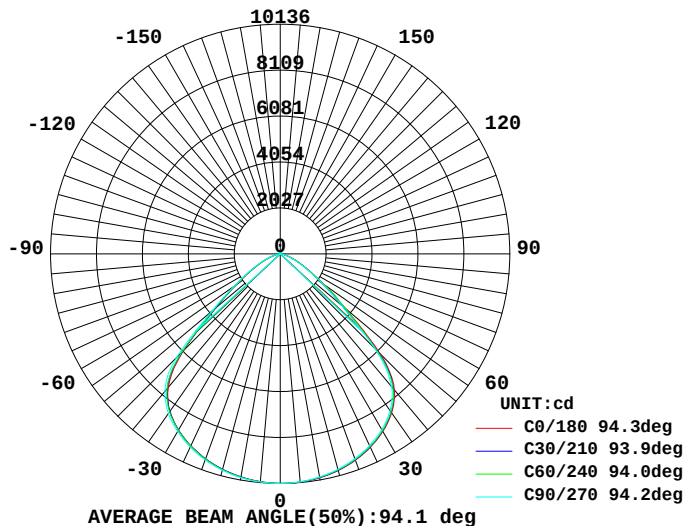
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Kolokol 120W 5000K 70Ra		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5079	DIMENSION: 264x264x120	SERIAL No.:

DATA OF LAMP		Imax(cd)	10136	S/MH(C0/180)	1.31
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.33
NOMINAL POWER(W)	120	TOTAL FLUX(lm)	21704.7	Voltage(V)	220.1
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	180.0	Current(A)	0.563
NOMINAL FLUX(lm)	21704.7	η up(%)	1.2	Power(W)	120.5
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.972
TEST VOLTAGE(V)	220.2	Effective Flux(lm)	21704.7	EEI	0.076

LUMINOUS INTENSITY DISTRIBUTION



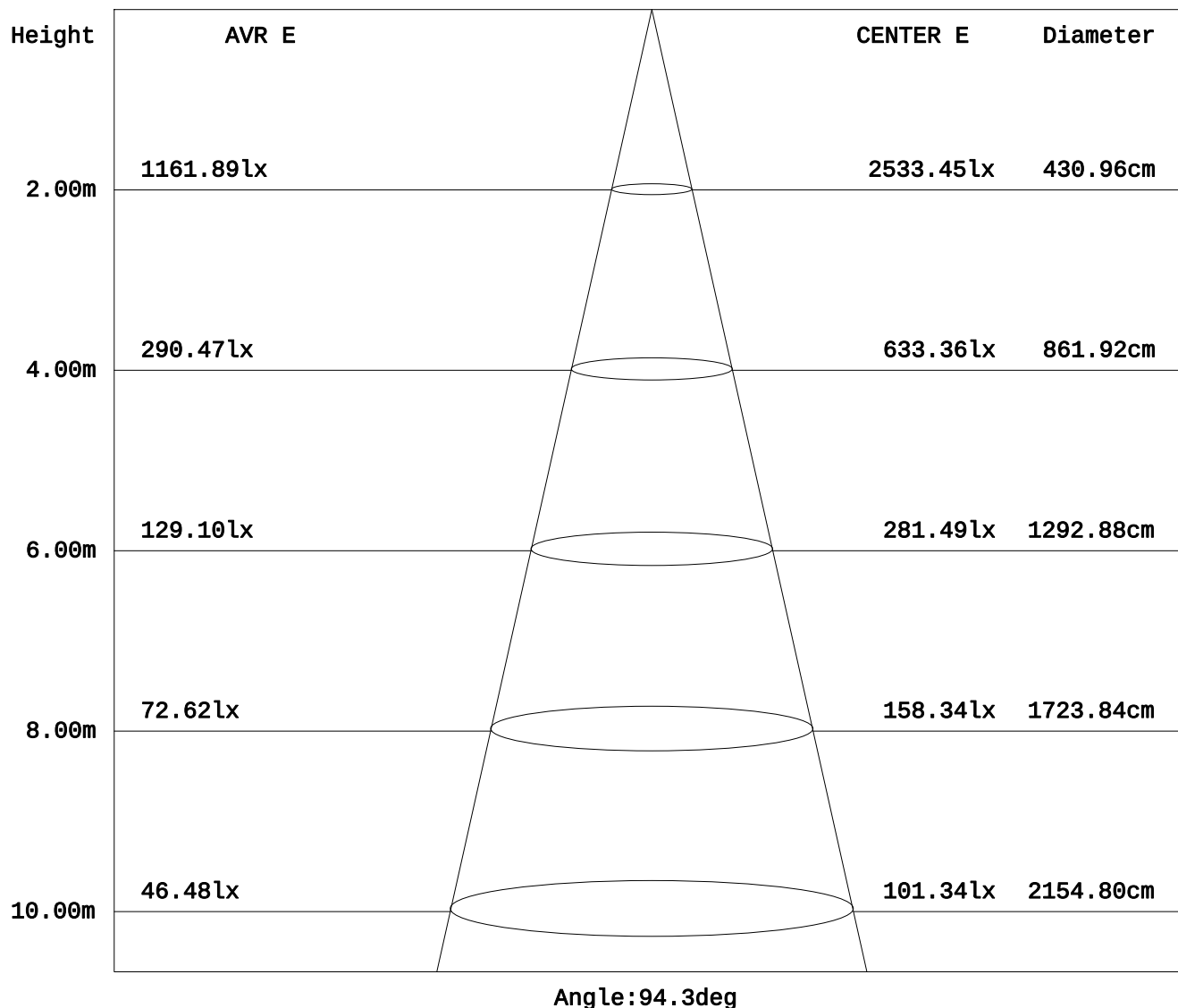
Temperature: 25.3°C
 Operators:
 Test Date: 11-24-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks: 73Ra 0.2% Flicker 59,6 Temp

AVERAGE AND CENTER E Figure

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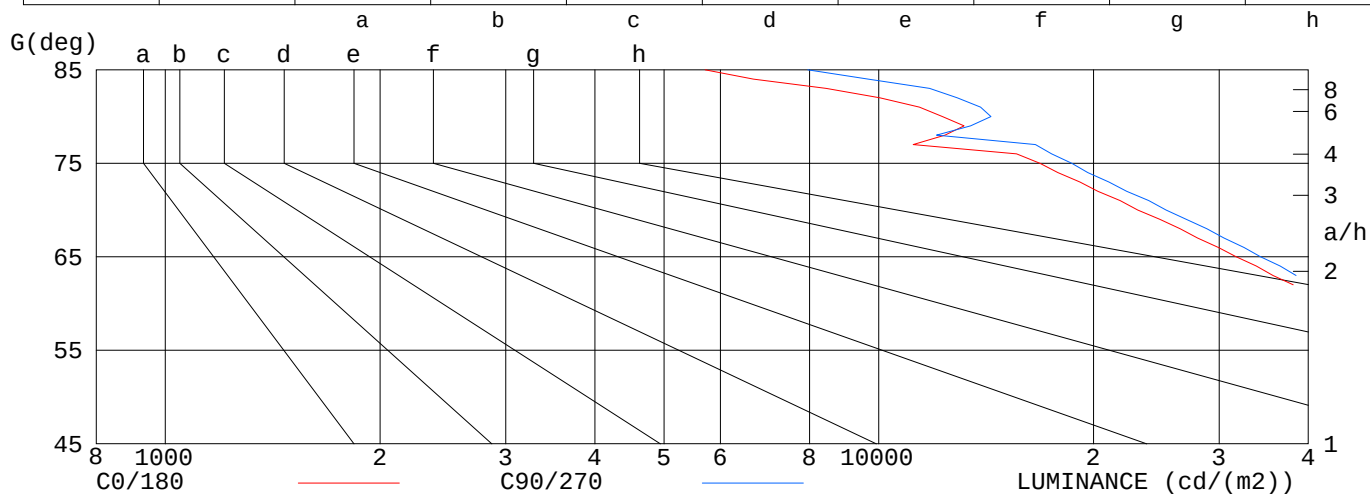
LUMINANCE LIMITATION CURVES

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SPECIFICATION:	CCT(K): 5079	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	5712	7951
80	12278	14361
75	16819	18649
70	23069	25280
65	31693	34286
60	42875	45914
55	58880	62160
50	84373	88001
45	122861	131617

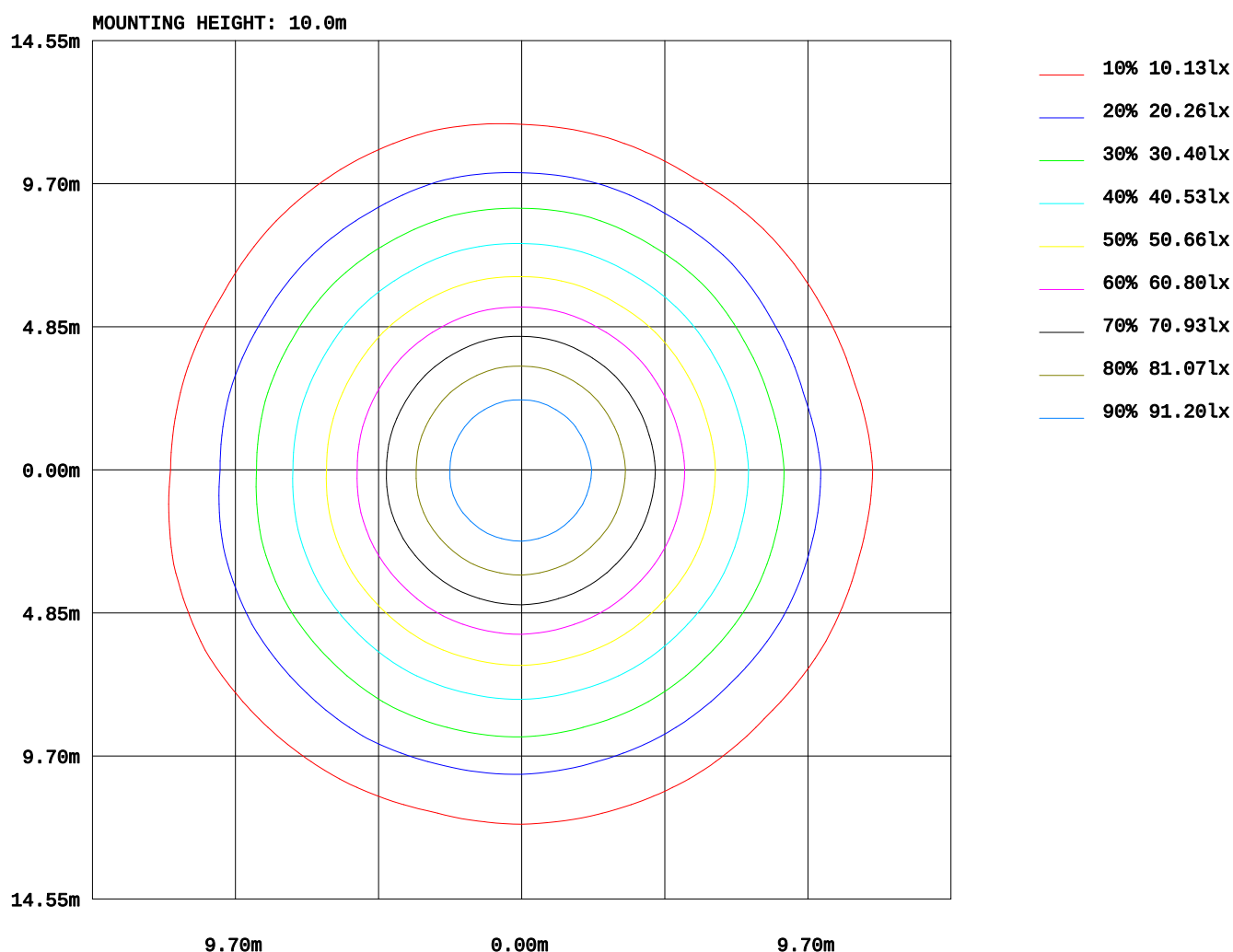
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ISOLUX DIAGRAM

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UGR Table

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NAME: Kolokol 120W 5000K 70Ra			TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5079	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	26.6	27.9	26.9	28.1	28.3	26.8	28.1	27.1	28.3	28.5
3H	26.7	27.9	27.0	28.1	28.4	26.9	28.1	27.2	28.3	28.6
4H	26.7	27.8	27.0	28.1	28.4	26.9	28.0	27.2	28.3	28.5
6H	26.7	27.7	27.0	28.0	28.3	26.9	27.9	27.2	28.2	28.5
8H	26.6	27.6	27.0	27.9	28.2	26.8	27.8	27.2	28.1	28.4
12H	26.6	27.5	26.9	27.8	28.2	26.8	27.7	27.2	28.1	28.4
4H 2H	26.6	27.7	27.0	28.0	28.3	26.8	27.9	27.1	28.2	28.4
3H	26.8	27.8	27.2	28.1	28.4	27.0	27.9	27.4	28.3	28.6
4H	26.9	27.7	27.3	28.1	28.4	27.0	27.9	27.4	28.2	28.6
6H	26.9	27.6	27.3	28.0	28.4	27.0	27.8	27.4	28.1	28.5
8H	26.8	27.5	27.2	27.9	28.3	27.0	27.7	27.4	28.1	28.5
12H	26.8	27.4	27.2	27.8	28.2	27.0	27.6	27.4	28.0	28.4
8H 4H	26.8	27.5	27.2	27.9	28.3	27.0	27.7	27.4	28.0	28.4
6H	26.8	27.4	27.3	27.8	28.3	27.0	27.6	27.4	28.0	28.4
8H	26.8	27.3	27.3	27.7	28.2	27.0	27.5	27.5	27.9	28.4
12H	26.8	27.2	27.3	27.7	28.2	27.0	27.4	27.4	27.8	28.3
12H 4H	26.8	27.4	27.2	27.8	28.2	26.9	27.6	27.4	28.0	28.4
6H	26.8	27.3	27.3	27.7	28.2	27.0	27.5	27.4	27.9	28.4
8H	26.8	27.2	27.3	27.7	28.2	26.9	27.4	27.4	27.8	28.3

Variations with the observer position at spacings:

S = 1.0H	+ 1.6 / - 1.9	+ 1.6 / - 1.8
1.5H	+ 1.0 / - 1.6	+ 1.2 / - 1.8
2.0H	+ 3.2 / - 2.5	+ 3.5 / - 2.7

CIE Pub.117 Corrected 21705 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.7)

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 0.2% Flicker 59,6 Temp

LUMINOUS DISTRIBUTION INTENSITY DATA

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Address:															
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SPECIFICATION:				CCT(K): 5079				DIMENSION: 264x264x120				SERIAL No.:			

UNIT: iA10cd

C(deg) γ (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013
5.0	1009	1009	1009	1009	1010	1010	1011	1011	1012	1012	1013	1013	1012	1012	1011
10.0	1000	999	1000	1000	1001	1001	1003	1003	1005	1005	1006	1006	1004	1004	1003
15.0	984	984	985	984	986	986	989	990	992	993	994	994	990	991	989
20.0	963	962	963	962	964	965	968	969	973	974	976	975	970	970	968
25.0	934	933	935	933	936	936	941	942	947	948	951	949	942	942	940
30.0	898	896	899	896	900	900	906	908	915	915	918	916	905	907	903
35.0	848	846	849	846	851	852	860	862	870	870	875	871	858	859	854
40.0	768	767	774	770	777	778	791	795	806	805	810	804	783	785	778
45.0	605	606	614	604	617	624	649	662	685	683	688	676	624	630	609
50.0	378	364	369	363	379	386	394	390	416	439	444	425	379	371	358
55.0	235	221	238	244	240	230	248	258	260	251	281	295	234	214	224
60.0	149	139	153	159	153	141	160	170	167	157	175	178	146	140	142
65.0	93.3	83.7	96.6	93.0	94.4	84.9	101	99.9	105	94.7	108	106	89.7	86.5	88.9
70.0	54.9	49.1	56.7	53.3	55.5	50.2	60.2	57.8	63.2	56.2	63.7	60.6	51.8	52.7	51.1
75.0	30.3	31.0	31.3	31.7	31.0	30.9	33.6	32.2	35.9	32.0	35.7	33.6	31.4	30.7	25.5
80.0	14.8	11.3	15.6	11.6	15.9	12.3	17.3	14.1	18.0	14.3	18.1	14.8	11.6	15.8	11.1
85.0	3.47	1.59	3.79	1.87	4.14	2.12	4.83	2.40	5.52	2.73	5.82	2.83	2.03	4.05	1.73
90.0	1.54	0.63	1.56	0.63	1.59	0.62	1.62	0.63	1.64	0.62	1.66	0.63	0.64	1.56	0.63
95.0	1.51	0.83	1.50	0.82	1.50	0.81	1.50	0.79	1.49	0.77	1.50	0.78	0.85	1.49	0.83
100.0	1.63	1.14	1.62	1.12	1.62	1.11	1.60	1.06	1.58	1.04	1.58	1.05	1.16	1.63	1.15
105.0	1.93	1.57	1.90	1.55	1.90	1.53	1.87	1.47	1.83	1.45	1.82	1.45	1.61	1.93	1.60
110.0	2.40	2.14	2.35	2.12	2.35	2.10	2.31	2.02	2.25	1.99	2.24	1.98	2.19	2.40	2.17
115.0	2.98	2.82	2.93	2.78	2.92	2.76	2.88	2.68	2.81	2.63	2.78	2.62	2.88	3.00	2.86
120.0	3.64	3.54	3.57	3.49	3.55	3.47	3.52	3.38	3.44	3.33	3.40	3.31	3.64	3.66	3.61
125.0	4.36	4.31	4.29	4.24	4.26	4.23	4.23	4.14	4.14	4.09	4.09	4.07	4.40	4.39	4.36
130.0	5.06	5.05	4.97	4.96	4.94	4.97	4.93	4.89	4.82	4.82	4.77	4.81	5.16	5.11	5.09
135.0	5.75	5.73	5.61	5.59	5.58	5.67	5.63	5.58	5.47	5.45	5.43	5.51	5.87	5.78	5.77
140.0	6.38	6.36	6.23	6.24	6.21	6.33	6.28	6.22	6.08	6.09	6.06	6.17	6.50	6.42	6.41
145.0	6.92	6.95	6.84	6.90	6.83	6.96	6.84	6.82	6.69	6.74	6.67	6.81	7.08	7.03	7.05
150.0	7.48	7.52	7.42	7.51	7.45	7.61	7.40	7.40	7.27	7.35	7.30	7.46	7.64	7.63	7.63
155.0	8.09	8.14	8.02	8.14	8.08	8.29	8.02	8.03	7.88	8.01	7.94	8.15	8.24	8.27	8.25
160.0	8.74	8.77	8.62	8.76	8.71	8.93	8.70	8.67	8.52	8.66	8.59	8.82	8.89	8.90	8.86
165.0	9.36	9.29	9.17	9.27	9.28	9.45	9.34	9.24	9.11	9.21	9.19	9.38	9.47	9.42	9.37
170.0	9.84	9.68	9.61	9.66	9.68	9.80	9.85	9.65	9.58	9.64	9.65	9.78	9.92	9.78	9.71
175.0	10.1	9.92	9.89	9.91	9.92	9.98	10.1	9.92	9.89	9.92	9.92	10.0	10.2	10.0	9.92
180.0	10.2	10.0	10.0	9.99	10.0	10.0	10.2	10.0	10.0	10.0	10.0	10.0	10.2	10.0	10.0

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 0.2% Flicker 59,6 Temp

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SPECIFICATION:	CCT(K): 5079	DIMENSION: 264x264x120	SERIAL No.:

UNIT: iA10cd

C(deg) γ (deg)	225	240	255	270	285	300	315	330	345
0.0	1013	1013	1013	1013	1013	1013	1013	1013	1013
5.0	1011	1011	1010	1010	1010	1009	1009	1008	1008
10.0	1003	1002	1002	1000	1000	998	998	997	997
15.0	990	987	987	984	984	981	982	979	981
20.0	969	966	966	962	962	959	959	956	957
25.0	941	938	938	934	933	928	928	925	927
30.0	906	901	902	896	895	888	889	885	889
35.0	858	853	853	845	844	836	836	831	835
40.0	782	775	775	764	764	752	751	739	743
45.0	621	604	615	588	586	561	570	543	549
50.0	372	378	376	353	343	324	330	337	349
55.0	249	234	214	219	217	200	199	206	215
60.0	161	142	139	136	145	125	124	129	144
65.0	95.3	86.7	84.9	83.4	86.1	76.4	76.4	79.1	83.4
70.0	55.1	49.5	50.0	46.7	49.8	44.1	45.5	44.0	47.7
75.0	30.7	23.9	28.2	22.5	27.4	21.5	25.6	20.9	26.0
80.0	15.4	9.98	14.0	8.75	12.9	8.30	12.5	7.84	12.0
85.0	3.58	1.44	3.12	1.17	2.94	1.03	2.73	0.97	2.76
90.0	1.55	0.64	1.51	0.65	1.52	0.67	1.50	0.68	1.52
95.0	1.51	0.84	1.49	0.87	1.51	0.89	1.51	0.91	1.52
100.0	1.63	1.16	1.64	1.19	1.66	1.23	1.69	1.26	1.70
105.0	1.93	1.62	1.95	1.67	1.99	1.73	2.04	1.76	2.05
110.0	2.40	2.19	2.44	2.27	2.49	2.33	2.55	2.37	2.56
115.0	2.99	2.88	3.04	2.97	3.10	3.04	3.18	3.08	3.19
120.0	3.65	3.63	3.72	3.75	3.79	3.80	3.86	3.85	3.88
125.0	4.37	4.38	4.45	4.51	4.53	4.55	4.60	4.60	4.62
130.0	5.08	5.12	5.17	5.27	5.25	5.27	5.28	5.31	5.33
135.0	5.69	5.77	5.84	5.99	5.92	5.95	5.87	5.95	6.00
140.0	6.31	6.40	6.45	6.60	6.56	6.57	6.48	6.57	6.61
145.0	6.94	7.03	7.04	7.16	7.15	7.18	7.09	7.19	7.19
150.0	7.52	7.60	7.57	7.70	7.74	7.77	7.67	7.76	7.74
155.0	8.12	8.20	8.15	8.30	8.39	8.39	8.27	8.37	8.32
160.0	8.73	8.79	8.75	8.91	9.01	8.99	8.87	8.94	8.90
165.0	9.24	9.29	9.26	9.46	9.51	9.47	9.36	9.40	9.38
170.0	9.64	9.67	9.65	9.89	9.86	9.78	9.71	9.74	9.74
175.0	9.91	9.91	9.92	10.1	10.0	9.96	9.95	9.95	9.99
180.0	10.0	9.99	10.0	10.2	10.0	10.0	10.0	10.0	10.0

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