

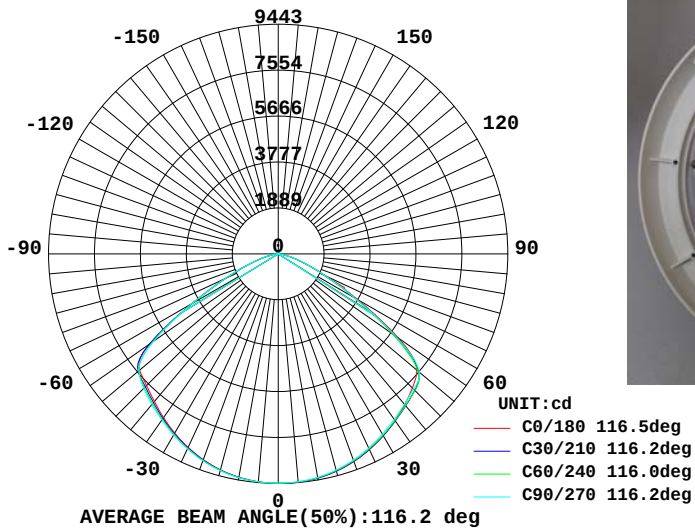
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Kolokol 150W 5000K 70Ra 120deg		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4914	DIMENSION: 300x300x113	SERIAL No.:

DATA OF LAMP		Imax(cd)	9443	S/MH(C0/180)	1.35
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.37
NOMINAL POWER(W)	150	TOTAL FLUX(lm)	27606.3	Voltage(V)	220.0
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	184.0	Current(A)	0.706
NOMINAL FLUX(lm)	27606.3	η up(%)	1.2	Power(W)	150.0
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.965
TEST VOLTAGE(V)	220.0	Effective Flux(lm)	27606.3	EEI	0.074

LUMINOUS INTENSITY DISTRIBUTION



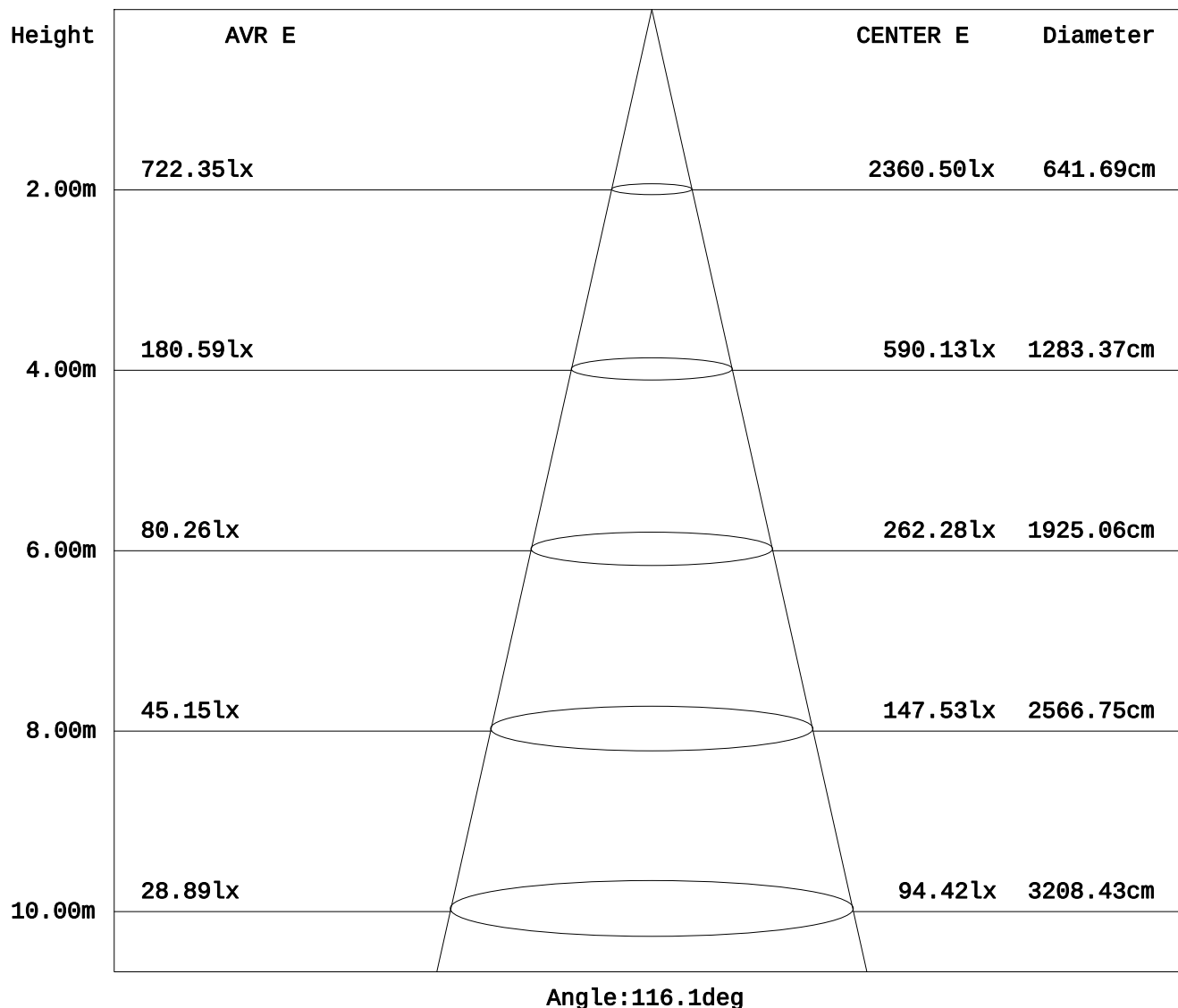
Temperature: 25.3°C
Operators:
Test Date: 11-23-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 10.000 m
Remarks: 73Ra 0.1% Flicker 56.1 Temp

AVERAGE AND CENTER E Figure

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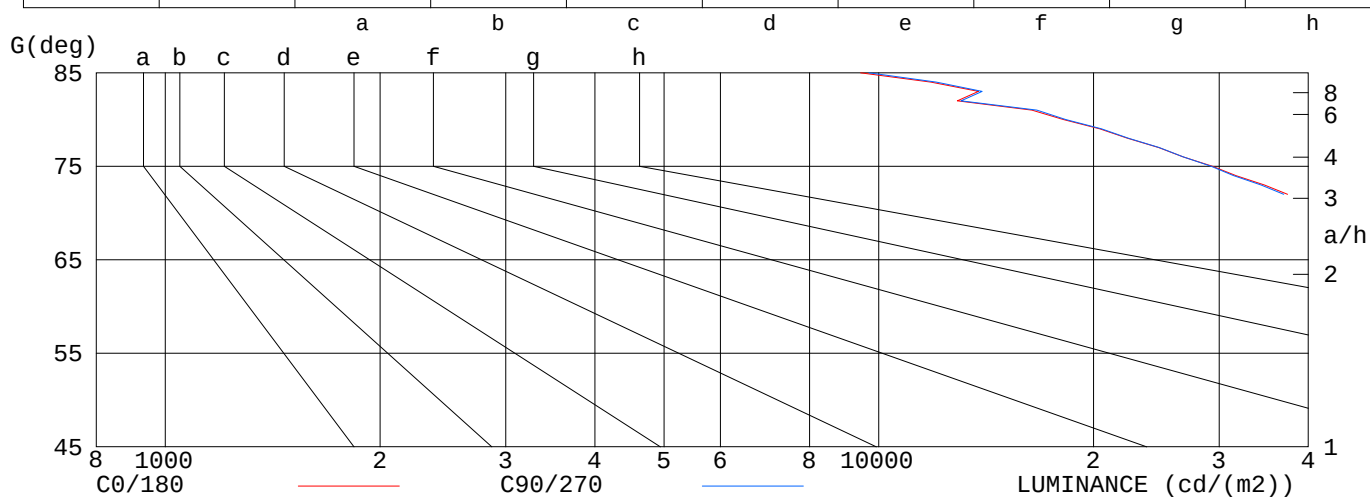
LUMINANCE LIMITATION CURVES

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SPECIFICATION:	CCT(K): 4914	DIMENSION: 300x300x113	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	9434	9689
80	18153	18294
75	29364	29240
70	43883	43220
65	63435	62547
60	91424	91469
55	124331	120788
50	128612	129457
45	120433	122949

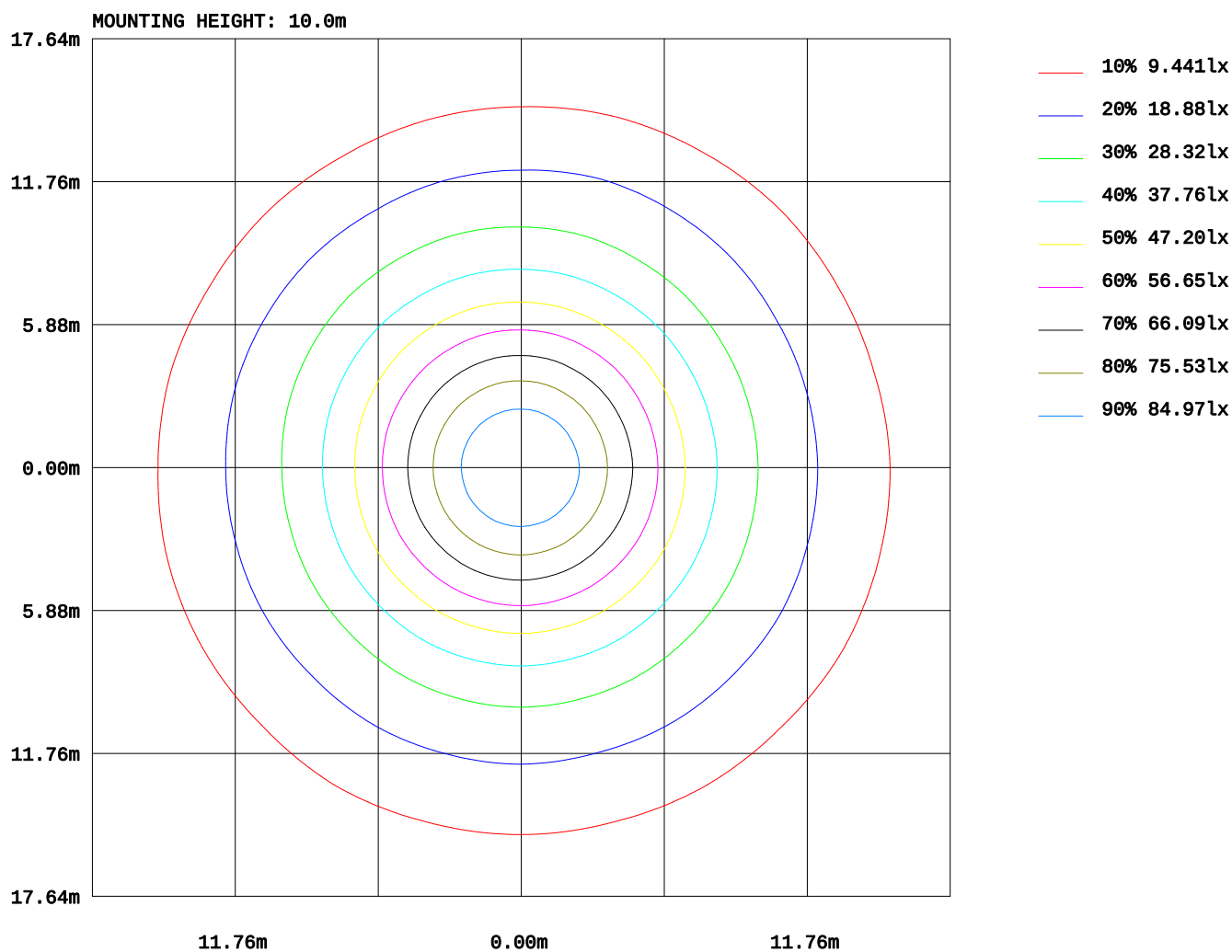
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ISOLUX DIAGRAM

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UGR Table

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NAME: Kolokol 150W 5000K 70Ra 120deg			TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4914	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	29.5	30.9	29.7	31.1	31.3	29.4	30.8	29.7	31.1	31.3
3H	29.8	31.1	30.1	31.3	31.6	29.7	31.1	30.0	31.3	31.6
4H	29.8	31.0	30.1	31.3	31.6	29.8	31.0	30.1	31.3	31.6
6H	29.7	30.9	30.1	31.2	31.5	29.7	30.9	30.1	31.2	31.5
8H	29.7	30.8	30.1	31.1	31.4	29.7	30.8	30.0	31.1	31.4
12H	29.7	30.7	30.0	31.0	31.4	29.6	30.7	30.0	31.0	31.3
4H 2H	29.7	30.9	30.0	31.2	31.5	29.6	30.9	30.0	31.1	31.4
3H	30.1	31.1	30.4	31.5	31.8	30.1	31.1	30.4	31.5	31.8
4H	30.1	31.1	30.5	31.4	31.8	30.1	31.1	30.5	31.4	31.8
6H	30.1	31.0	30.5	31.3	31.7	30.1	31.0	30.5	31.3	31.7
8H	30.1	30.9	30.5	31.3	31.7	30.1	30.9	30.5	31.3	31.7
12H	30.1	30.8	30.5	31.2	31.6	30.1	30.8	30.5	31.2	31.6
8H 4H	30.1	30.9	30.5	31.3	31.7	30.1	30.9	30.5	31.3	31.7
6H	30.1	30.8	30.6	31.2	31.6	30.1	30.8	30.6	31.2	31.6
8H	30.1	30.7	30.6	31.1	31.6	30.1	30.7	30.6	31.1	31.6
12H	30.1	30.5	30.5	31.0	31.5	30.1	30.5	30.5	31.0	31.5
12H 4H	30.0	30.8	30.5	31.2	31.6	30.0	30.8	30.5	31.2	31.6
6H	30.1	30.6	30.5	31.1	31.6	30.1	30.6	30.5	31.1	31.6
8H	30.1	30.5	30.6	31.0	31.5	30.1	30.5	30.5	31.0	31.5

Variations with the observer position at spacings:

S = 1.0H	+ 0.1 / - 0.3	+ 0.2 / - 0.4
1.5H	+ 0.9 / - 1.4	+ 0.8 / - 1.4
2.0H	+ 1.4 / - 1.9	+ 1.3 / - 1.7

CIE Pub.117 Corrected 27606 lm Total Lamp Luminous Flux.(8log(F/F0) = 11.5)

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 0.1% Flicker 56.1 Temp

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
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SPECIFICATION:	CCT(K): 4914	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	9442	9439	9438	9435	9433	9429	9427	9429	9427	9427	9425	9423	9442	9439	9438
5.0	9410	9406	9409	9408	9412	9407	9411	9414	9416	9418	9419	9418	9431	9431	9425
10.0	9328	9325	9332	9330	9340	9338	9347	9348	9357	9356	9364	9361	9370	9372	9364
15.0	9196	9192	9205	9204	9217	9216	9229	9233	9245	9245	9254	9251	9255	9261	9245
20.0	9008	9006	9023	9024	9041	9040	9060	9061	9076	9077	9090	9087	9092	9096	9081
25.0	8777	8776	8798	8800	8824	8823	8843	8846	8866	8867	8883	8879	8882	8888	8871
30.0	8516	8515	8546	8549	8577	8576	8605	8602	8626	8624	8644	8639	8638	8654	8633
35.0	8221	8224	8264	8271	8308	8309	8342	8337	8359	8344	8365	8359	8373	8400	8392
40.0	7922	7931	7983	7996	8042	8042	8082	8068	8080	8047	8067	8059	8091	8149	8158
45.0	7664	7669	7733	7737	7785	7779	7824	7801	7807	7757	7776	7764	7803	7906	7939
50.0	7440	7445	7512	7464	7466	7419	7489	7464	7483	7416	7442	7412	7444	7542	7546
55.0	6418	6422	6463	6282	6282	6186	6235	6252	6332	6202	6186	6143	6022	6013	5845
60.0	4114	4087	4111	4040	4120	4031	4116	4031	4118	3966	4031	3974	3786	3851	3631
65.0	2413	2272	2347	2317	2424	2344	2379	2262	2082	2287	2372	2271	2186	2091	2105
70.0	1351	1227	1302	1268	1356	1293	1330	1235	1275	1255	1333	1256	1204	1228	1169
75.0	684	614	672	632	689	639	681	618	655	623	681	620	582	632	577
80.0	284	226	283	225	281	221	286	223	282	227	286	231	214	270	208
85.0	74.0	29.6	76.0	28.9	73.0	28.7	76.0	31.9	80.0	33.8	79.0	36.7	29.4	72.0	25.0
90.0	19.5	8.70	19.4	8.60	19.4	8.60	19.5	8.70	19.5	8.80	19.6	8.90	9.30	19.5	9.09
95.0	20.1	12.6	19.9	12.5	19.9	12.5	19.9	12.6	20.1	12.8	20.4	13.0	13.6	20.5	13.4
100.0	23.5	18.1	23.1	18.0	23.1	18.0	23.2	18.1	23.5	18.4	23.7	18.5	19.4	24.2	19.2
105.0	28.5	24.6	28.2	24.4	28.0	24.5	28.2	24.6	28.4	24.7	28.7	25.0	26.4	29.6	26.1
110.0	34.7	32.0	34.4	31.7	34.2	31.7	34.5	32.0	34.5	32.1	34.7	32.1	33.8	36.0	33.5
115.0	41.7	39.5	41.2	39.3	41.1	39.5	41.5	39.5	41.2	39.5	41.2	39.5	41.7	43.0	41.2
120.0	48.2	46.7	47.7	46.2	47.6	46.7	48.2	46.7	47.6	46.2	47.6	46.5	49.0	49.5	48.1
125.0	54.9	53.5	53.6	52.6	53.7	53.7	54.9	53.5	53.5	52.3	53.5	53.3	55.8	56.0	54.5
130.0	61.0	60.1	59.3	58.8	59.6	60.3	61.1	60.1	59.2	58.7	59.5	60.0	62.4	62.3	61.1
135.0	67.0	66.1	65.5	65.3	66.0	66.5	67.0	66.0	65.5	65.3	65.9	66.2	68.4	68.1	67.9
140.0	72.7	72.2	71.6	71.6	72.2	73.0	72.7	72.0	71.5	71.5	72.0	72.8	74.2	74.2	74.0
145.0	79.0	78.7	77.6	78.3	78.3	79.9	78.6	78.3	77.5	78.0	78.1	79.9	80.8	80.8	80.4
150.0	85.5	85.1	84.0	84.7	84.7	86.6	85.0	84.5	83.9	84.6	84.6	86.5	86.7	87.3	86.4
155.0	91.1	90.9	90.0	90.6	90.9	92.5	90.8	90.3	89.8	90.4	90.5	92.4	91.9	93.0	91.7
160.0	95.8	95.2	94.5	95.0	95.5	96.8	95.5	94.5	94.0	94.4	94.9	96.4	96.1	97.0	95.5
165.0	99.4	97.8	97.5	97.5	98.5	99.2	99.1	97.1	97.0	97.0	97.8	99.0	99.4	99.8	98.0
170.0	102	100	100	99.6	101	101	102	99.5	99.4	99.5	100	101	102	102	100
175.0	105	102	102	101	102	102	104	101	101	101	102	102	104	103	102
180.0	105	103	103	102	102	102	105	102	102	102	103	103	105	103	102

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 0.1% Flicker 56.1 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	9435	9433	9429	9427	9429	9427	9427	9425	9423
5.0	9423	9417	9413	9404	9405	9398	9398	9391	9390
10.0	9362	9350	9343	9331	9330	9317	9315	9304	9305
15.0	9246	9226	9222	9201	9202	9179	9182	9162	9168
20.0	9080	9058	9051	9025	9020	8995	8994	8972	8976
25.0	8871	8849	8840	8808	8798	8766	8762	8737	8741
30.0	8643	8611	8609	8564	8555	8505	8504	8464	8476
35.0	8404	8372	8363	8314	8295	8237	8218	8173	8175
40.0	8183	8143	8131	8071	8047	7971	7940	7880	7879
45.0	8000	7952	7944	7872	7847	7746	7705	7618	7623
50.0	7587	7515	7579	7586	7650	7545	7489	7373	7387
55.0	5819	5713	5824	5857	6078	6110	6159	6100	6155
60.0	3706	3616	3704	3618	3744	3721	3986	3864	4031
65.0	2122	2147	2102	2114	2106	2143	2105	2253	2343
70.0	1242	1182	1258	1164	1236	1169	1263	1242	1312
75.0	641	581	637	573	635	576	648	606	663
80.0	268	213	264	209	265	213	273	219	274
85.0	64.4	23.8	65.9	22.6	62.0	23.6	68.6	25.2	66.7
90.0	19.4	9.20	19.4	9.09	19.3	9.00	19.4	9.09	19.4
95.0	20.5	13.4	20.4	13.3	20.4	13.3	20.4	13.2	20.4
100.0	24.2	19.2	24.2	19.2	24.1	19.1	24.1	19.0	24.0
105.0	29.4	26.1	29.4	26.1	29.4	26.0	29.3	25.9	29.3
110.0	35.9	33.5	35.9	33.7	35.9	33.3	35.7	33.2	35.7
115.0	42.7	41.1	42.8	41.7	42.8	41.1	42.6	41.0	42.7
120.0	49.2	48.1	49.7	49.2	49.7	48.1	49.2	48.1	49.5
125.0	55.1	54.5	56.1	56.1	56.1	54.5	55.0	54.5	56.0
130.0	61.1	61.0	62.5	62.8	62.5	61.2	61.1	61.0	62.3
135.0	67.4	67.5	68.3	68.9	68.5	68.0	67.2	67.5	68.0
140.0	73.4	73.6	74.0	74.6	74.5	74.1	73.4	73.7	73.9
145.0	79.5	79.9	79.9	80.8	81.0	80.5	79.5	80.0	79.7
150.0	85.5	85.7	85.6	86.5	87.3	86.5	85.6	86.0	85.7
155.0	90.9	90.9	90.9	91.5	93.0	91.9	91.2	91.2	91.1
160.0	95.0	94.5	95.0	95.5	97.2	95.9	95.3	95.0	95.2
165.0	97.5	97.1	97.6	98.6	99.8	98.4	98.0	97.5	98.0
170.0	99.8	99.5	99.9	102	102	100	100	99.8	100
175.0	102	101	102	104	103	102	102	102	102
180.0	102	102	103	104	103	102	103	102	103

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