

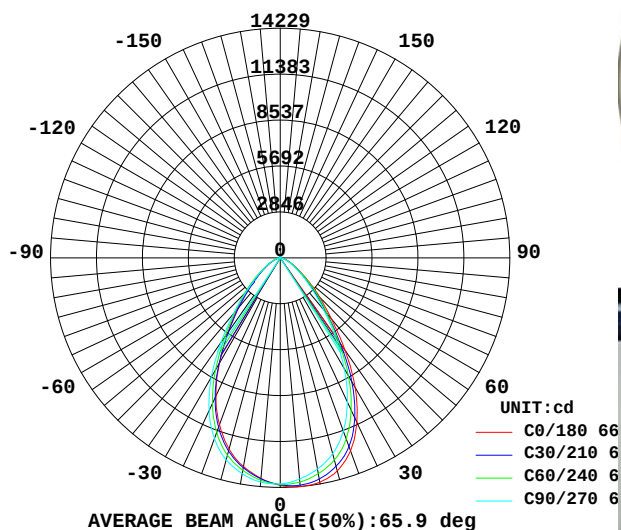
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Kolokol 100W 60deg. 30min		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4983	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	14229	S/MH(C0/180)	0.93
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.99
NOMINAL POWER(W)	102	TOTAL FLUX(lm)	18257.0	Voltage(V)	220.1
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	180.6	Current(A)	0.471
NOMINAL FLUX(lm)	18257.0	η up(%)	1.2	Power(W)	101.0
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.973
TEST VOLTAGE(V)	220.2	Effective Flux(lm)	18257.0	EEI	0.075

LUMINOUS INTENSITY DISTRIBUTION



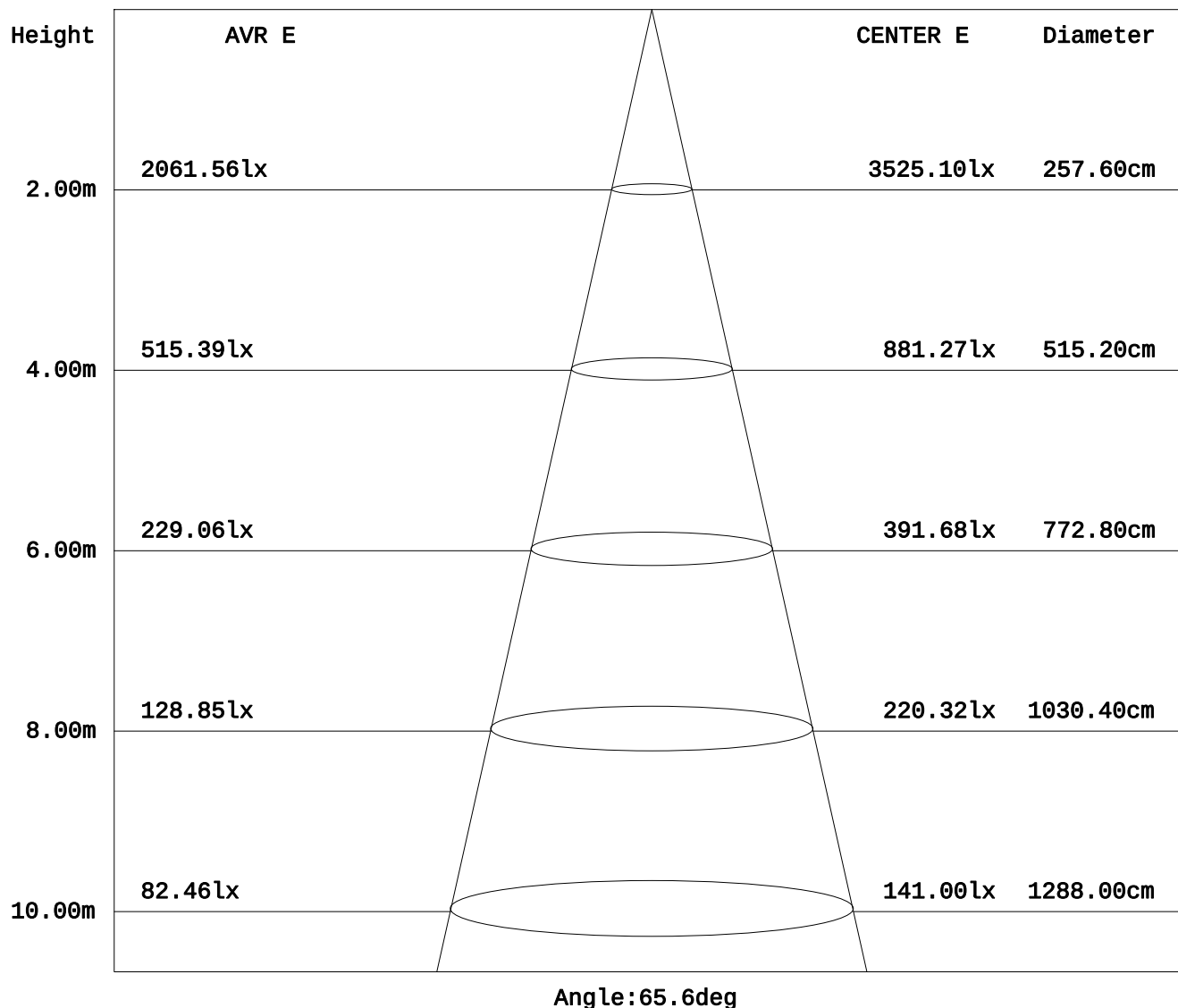
Test System: HOP00 HPG1800
 Temperature: 25.3°C
 Operators:
 Test Date: 11-29-2022

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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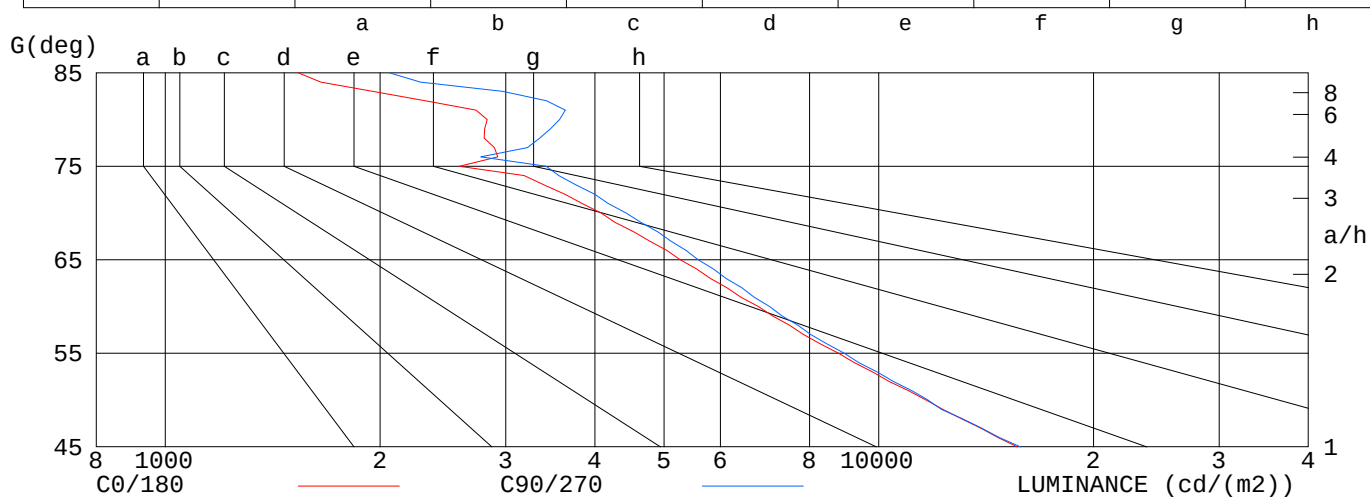
LUMINANCE LIMITATION CURVES

Report number:

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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	1536	2062
80	2826	3569
75	2583	3419
70	4082	4426
65	5269	5583
60	6780	7030
55	8784	8948
50	11647	11719
45	15630	15794

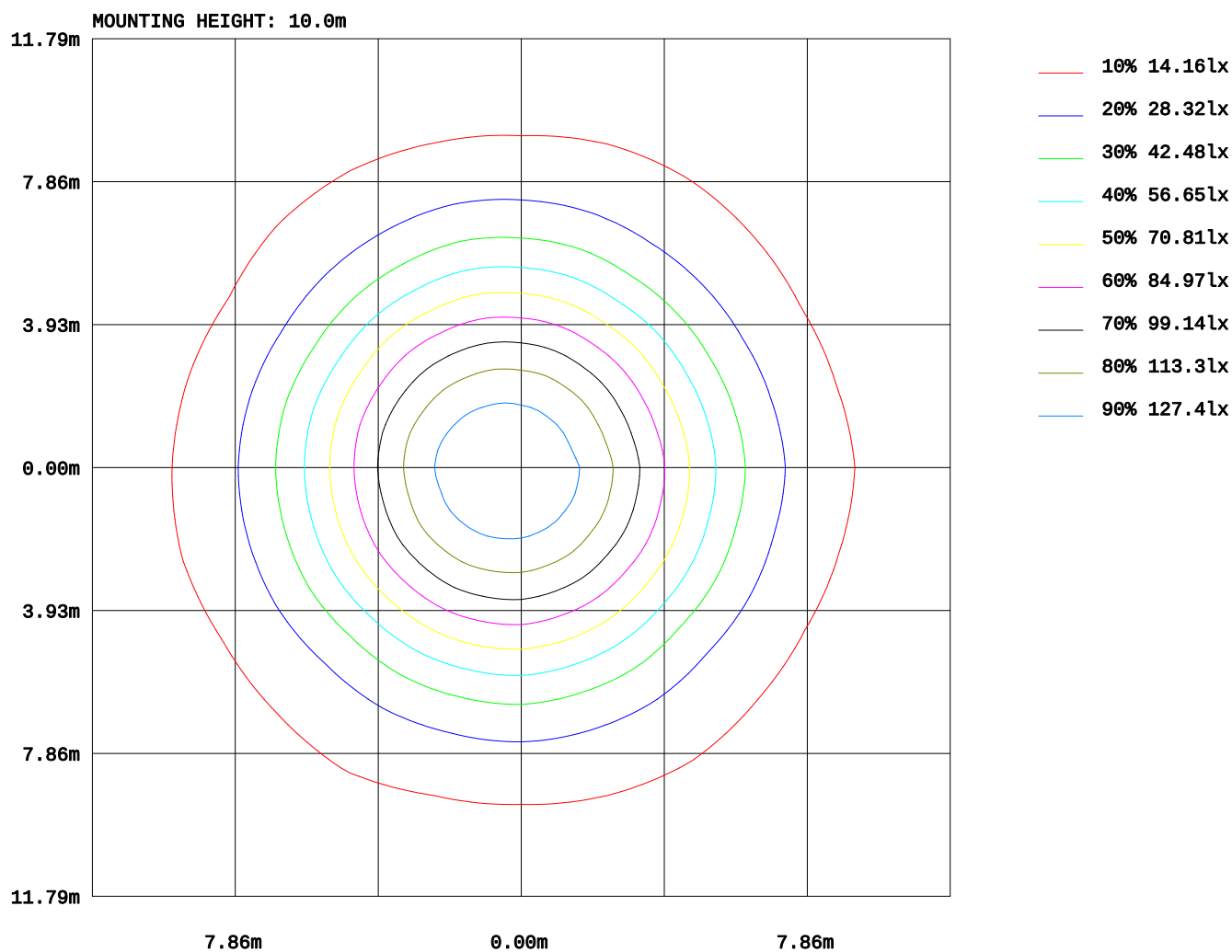
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ISOLUX DIAGRAM

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UGR Table

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SPECIFICATION:	CCT(K): 4983	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	18.5	19.7	18.8	19.9	20.1	19.1	20.2	19.3	20.4	20.6
3H	18.8	19.8	19.1	20.1	20.3	19.3	20.4	19.6	20.6	20.9
4H	18.8	19.8	19.1	20.1	20.3	19.4	20.4	19.7	20.6	20.9
6H	18.8	19.7	19.1	20.0	20.3	19.4	20.4	19.7	20.6	20.9
8H	18.8	19.7	19.1	20.0	20.3	19.4	20.3	19.8	20.6	20.9
12H	18.8	19.6	19.1	19.9	20.2	19.4	20.3	19.8	20.6	20.9
4H 2H	18.6	19.6	18.9	19.9	20.1	19.1	20.1	19.4	20.4	20.6
3H	19.0	19.9	19.3	20.2	20.5	19.5	20.4	19.9	20.7	21.0
4H	19.1	19.9	19.5	20.2	20.5	19.6	20.4	20.0	20.7	21.1
6H	19.1	19.8	19.5	20.2	20.5	19.7	20.4	20.1	20.7	21.1
8H	19.1	19.7	19.5	20.1	20.5	19.7	20.3	20.1	20.7	21.1
12H	19.1	19.7	19.5	20.1	20.5	19.7	20.3	20.1	20.7	21.1
8H 4H	19.1	19.7	19.5	20.1	20.5	19.6	20.2	20.0	20.6	21.0
6H	19.2	19.7	19.6	20.1	20.5	19.7	20.2	20.2	20.6	21.1
8H	19.2	19.6	19.6	20.1	20.5	19.8	20.2	20.2	20.7	21.1
12H	19.2	19.5	19.6	20.0	20.5	19.8	20.2	20.3	20.6	21.1
12H 4H	19.0	19.6	19.5	20.0	20.4	19.5	20.1	20.0	20.5	20.9
6H	19.1	19.6	19.6	20.0	20.5	19.7	20.1	20.1	20.6	21.0
8H	19.2	19.6	19.7	20.0	20.5	19.7	20.1	20.2	20.6	21.1

Variations with the observer position at spacings:

S = 1.0H	+ 1.1 / - 1.5	+ 1.0 / - 1.5
1.5H	+ 1.3 / - 1.3	+ 1.4 / - 1.0
2.0H	+ 2.3 / - 1.8	+ 2.2 / - 1.6

CIE Pub.117 Corrected 18257 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.1)

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UNIT: $\mu\text{A}/10\text{cd}$

γ (deg) \ C(deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	1410	1407	1407	1404	1404	1402	1401	1400	1398	1398	1396	1396	1410	1407	1407
5.0	1372	1371	1375	1377	1383	1388	1394	1400	1406	1409	1411	1411	1423	1420	1414
10.0	1313	1313	1320	1325	1336	1345	1358	1368	1382	1390	1398	1401	1412	1406	1392
15.0	1227	1227	1240	1247	1267	1277	1296	1307	1326	1338	1355	1355	1367	1359	1337
20.0	1101	1103	1117	1128	1150	1168	1191	1207	1231	1245	1261	1262	1273	1268	1246
25.0	942	941	953	965	993	1015	1042	1056	1074	1087	1109	1116	1124	1119	1094
30.0	754	743	760	766	805	823	857	864	883	888	915	919	928	924	888
35.0	565	553	557	561	597	617	640	643	658	660	686	695	704	686	653
40.0	418	399	399	407	435	442	448	448	480	468	486	494	494	476	447
45.0	299	291	273	291	318	315	302	318	358	343	330	355	346	335	308
50.0	202	197	186	204	219	218	204	222	249	240	217	245	236	219	208
55.0	136	132	129	138	148	144	139	150	168	162	151	164	156	159	141
60.0	91.6	88.2	88.3	92.9	99.3	96.5	95.0	101	112	108	103	109	103	107	94.6
65.0	60.2	57.3	59.4	61.1	66.1	62.5	63.7	65.9	74.0	70.1	69.0	69.5	67.9	70.1	63.4
70.0	37.7	34.7	38.0	37.8	42.1	38.3	40.9	40.8	47.6	44.3	44.7	42.8	42.4	44.3	39.7
75.0	18.0	18.2	17.8	20.6	23.4	20.5	23.9	22.1	27.3	24.4	25.6	23.3	22.8	25.7	20.8
80.0	13.2	9.39	12.5	11.5	14.2	12.0	16.7	13.1	16.4	14.3	14.5	11.6	12.1	13.5	11.1
85.0	3.62	2.67	5.77	3.96	6.71	3.80	4.86	4.26	8.27	5.87	7.65	3.71	3.38	6.35	4.88
90.0	1.32	0.58	1.34	0.57	1.39	0.57	1.37	0.56	1.55	0.54	1.60	0.55	0.54	1.50	0.54
95.0	1.27	0.70	1.27	0.69	1.29	0.68	1.27	0.67	1.31	0.65	1.28	0.64	0.66	1.27	0.65
100.0	1.33	0.89	1.31	0.88	1.32	0.86	1.30	0.84	1.32	0.82	1.28	0.80	0.83	1.29	0.82
105.0	1.47	1.15	1.45	1.13	1.45	1.09	1.42	1.07	1.42	1.03	1.38	1.02	1.06	1.39	1.05
110.0	1.73	1.50	1.69	1.46	1.67	1.43	1.64	1.39	1.62	1.33	1.58	1.32	1.37	1.60	1.36
115.0	2.10	1.98	2.06	1.92	2.01	1.88	1.98	1.80	1.91	1.73	1.87	1.72	1.79	1.93	1.78
120.0	2.63	2.59	2.57	2.49	2.49	2.43	2.45	2.32	2.34	2.23	2.30	2.21	2.33	2.36	2.32
125.0	3.29	3.31	3.22	3.20	3.11	3.11	3.04	2.96	2.89	2.86	2.84	2.83	2.97	2.94	2.98
130.0	4.03	4.13	3.96	4.00	3.81	3.89	3.73	3.71	3.53	3.58	3.48	3.55	3.73	3.62	3.74
135.0	4.87	4.97	4.77	4.83	4.60	4.71	4.50	4.50	4.28	4.36	4.22	4.32	4.56	4.38	4.56
140.0	5.73	5.83	5.59	5.68	5.43	5.57	5.33	5.34	5.08	5.19	5.00	5.16	5.40	5.21	5.40
145.0	6.55	6.67	6.38	6.52	6.25	6.45	6.14	6.19	5.88	6.03	5.79	6.02	6.28	6.07	6.25
150.0	7.35	7.45	7.16	7.31	7.09	7.30	6.95	7.00	6.69	6.84	6.62	6.86	7.13	6.91	7.11
155.0	8.10	8.20	7.91	8.09	7.90	8.14	7.74	7.79	7.49	7.68	7.46	7.74	7.94	7.77	7.92
160.0	8.80	8.94	8.62	8.84	8.66	8.95	8.49	8.55	8.25	8.46	8.28	8.61	8.80	8.60	8.74
165.0	9.60	9.64	9.36	9.54	9.40	9.69	9.30	9.30	9.03	9.24	9.10	9.42	9.66	9.40	9.49
170.0	10.3	10.2	10.0	10.1	10.0	10.3	10.1	10.0	9.78	9.96	9.84	10.1	10.4	10.1	10.1
175.0	10.9	10.7	10.5	10.6	10.5	10.7	10.7	10.5	10.3	10.5	10.4	10.6	10.9	10.5	10.6
180.0	11.1	10.8	10.7	10.7	10.7	10.8	11.0	10.7	10.7	10.7	10.7	10.8	11.1	10.8	10.8

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SPECIFICATION:	CCT(K): 4983	DIMENSION:	SERIAL No.:

UNIT: μA10cd

γ (deg) \ C(deg)	225	240	255	270	285	300	315	330	345
0.0	1404	1404	1402	1401	1400	1398	1398	1396	1396
5.0	1405	1395	1386	1376	1370	1362	1359	1354	1354
10.0	1377	1359	1345	1329	1319	1308	1303	1295	1295
15.0	1321	1297	1280	1256	1245	1224	1217	1203	1207
20.0	1226	1196	1172	1143	1123	1097	1087	1076	1080
25.0	1073	1041	1020	986	962	930	918	909	919
30.0	875	844	832	793	772	730	723	710	729
35.0	643	628	622	594	571	540	529	524	539
40.0	455	450	438	420	416	407	391	377	387
45.0	331	327	303	292	303	302	286	259	277
50.0	217	223	210	193	211	207	201	178	194
55.0	155	147	142	128	141	137	136	119	131
60.0	104	97.8	96.2	85.9	95.4	90.9	92.3	80.3	88.5
65.0	69.0	64.6	63.5	57.0	62.5	60.1	60.9	53.5	58.4
70.0	44.3	39.5	39.6	34.6	38.2	36.2	38.2	32.8	35.8
75.0	26.3	20.2	18.1	18.3	18.1	17.8	18.1	17.1	18.5
80.0	15.4	10.7	13.7	10.5	13.5	10.8	15.2	9.92	13.0
85.0	7.64	4.34	5.04	2.10	5.26	3.59	6.05	3.19	4.79
90.0	1.47	0.56	1.36	0.55	1.35	0.58	1.35	0.58	1.34
95.0	1.29	0.66	1.26	0.68	1.27	0.71	1.29	0.70	1.27
100.0	1.30	0.84	1.29	0.86	1.32	0.89	1.34	0.90	1.33
105.0	1.41	1.08	1.42	1.11	1.45	1.15	1.48	1.17	1.48
110.0	1.62	1.40	1.65	1.46	1.69	1.49	1.73	1.54	1.75
115.0	1.95	1.82	2.00	1.93	2.07	1.95	2.12	2.03	2.15
120.0	2.40	2.38	2.48	2.53	2.56	2.56	2.63	2.66	2.68
125.0	2.98	3.03	3.09	3.22	3.20	3.27	3.28	3.39	3.36
130.0	3.68	3.80	3.80	4.03	3.95	4.09	4.04	4.23	4.14
135.0	4.44	4.64	4.58	4.88	4.74	4.95	4.85	5.09	4.96
140.0	5.25	5.47	5.41	5.74	5.59	5.80	5.69	5.94	5.83
145.0	6.08	6.32	6.25	6.59	6.46	6.66	6.52	6.79	6.67
150.0	6.88	7.15	7.04	7.40	7.28	7.49	7.30	7.58	7.44
155.0	7.70	7.92	7.82	8.15	8.10	8.27	8.08	8.30	8.18
160.0	8.46	8.69	8.55	8.95	8.87	9.03	8.79	9.00	8.86
165.0	9.21	9.43	9.30	9.73	9.61	9.71	9.48	9.67	9.54
170.0	9.91	10.1	9.98	10.4	10.2	10.2	10.1	10.2	10.1
175.0	10.4	10.5	10.4	10.9	10.6	10.6	10.5	10.6	10.6
180.0	10.7	10.7	10.7	11.0	10.7	10.7	10.7	10.7	10.8

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