

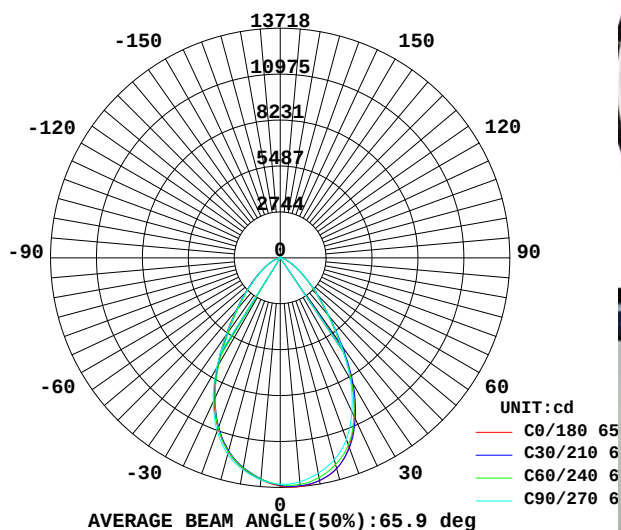
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Kolokol 100W lens 60deg. + Glass 30min		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5027	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	13718	S/MH(C0/180)	0.95
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.96
NOMINAL POWER(W)	102	TOTAL FLUX(lm)	17594.1	Voltage(V)	220.1
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	172.8	Current(A)	0.474
NOMINAL FLUX(lm)	17594.1	η up(%)	1.2	Power(W)	101.8
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.973
TEST VOLTAGE(V)	220.2	Effective Flux(lm)	17594.1	EEI	0.079

LUMINOUS INTENSITY DISTRIBUTION



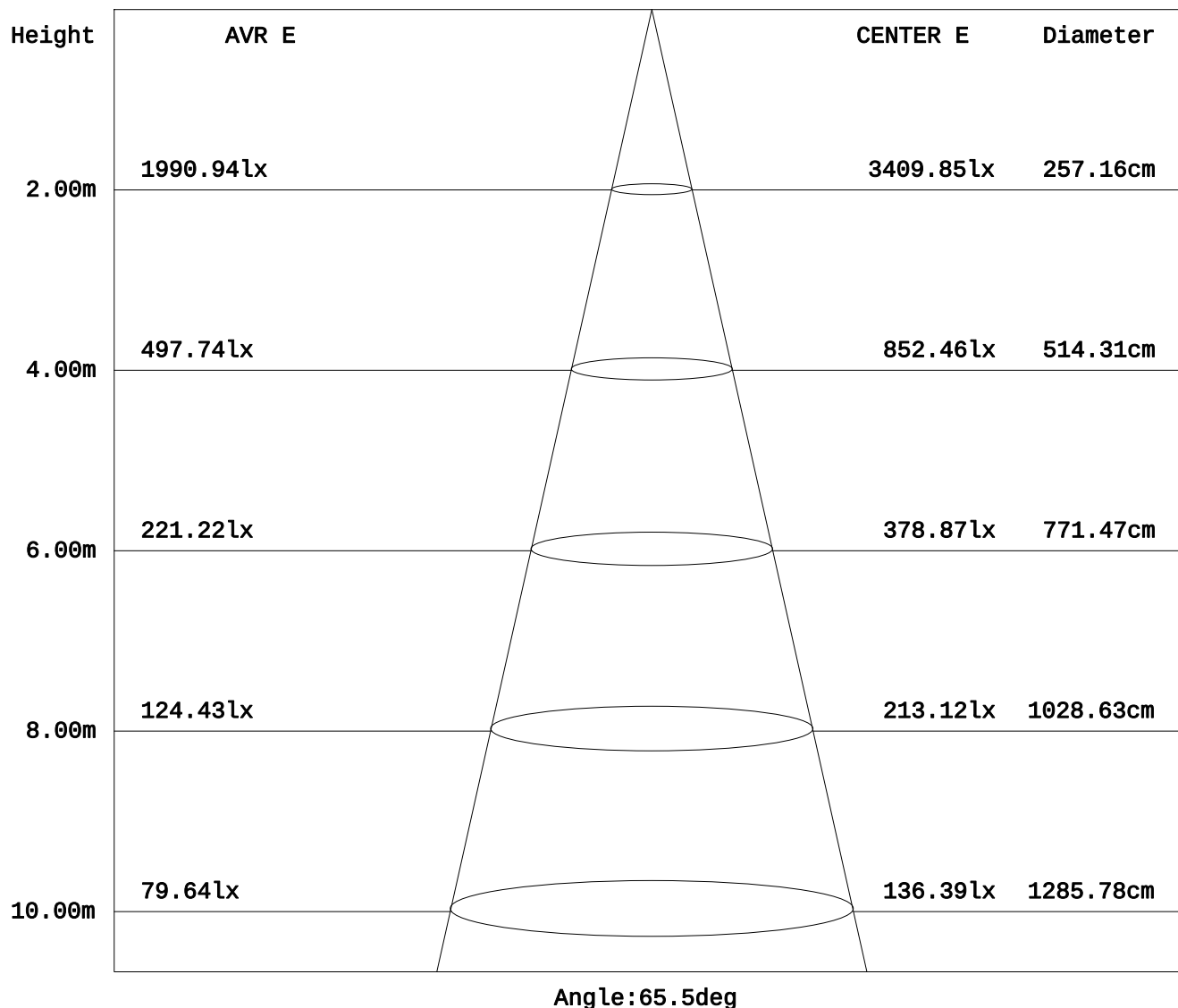
Test System: HOP00 HPG1800
 Temperature: 25.3°C
 Operators:
 Test Date: 11-29-2022

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks: 71Ra. 0.0% Flickering.

AVERAGE AND CENTER E Figure

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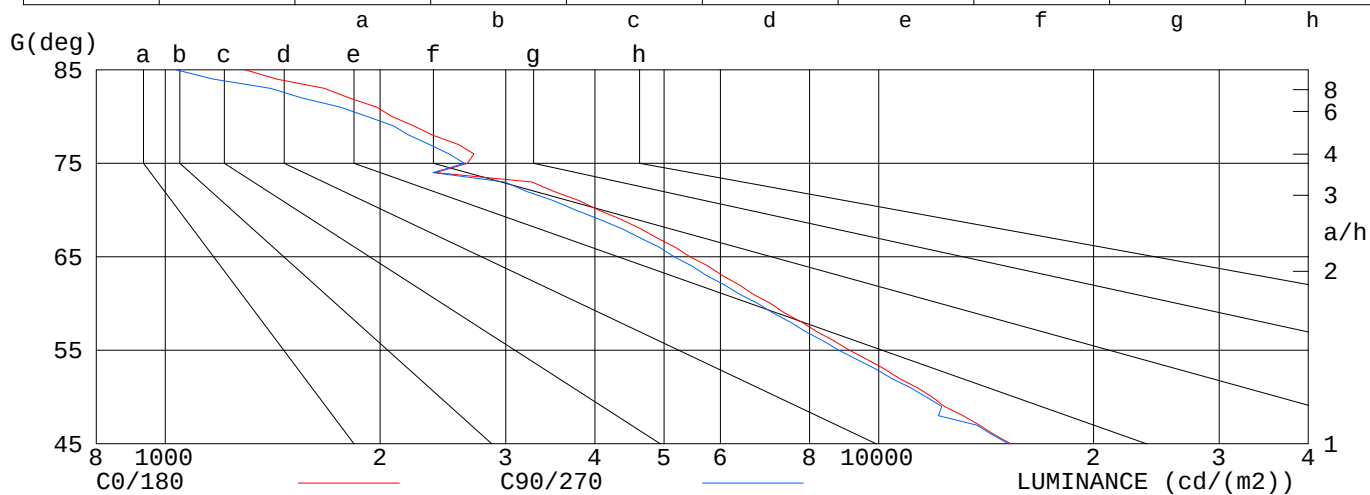
LUMINANCE LIMITATION CURVES

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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	1294	1035
80	2079	1919
75	2652	2626
70	4049	3757
65	5439	5167
60	7052	6770
55	9097	8790
50	11880	11651
45	15316	15220

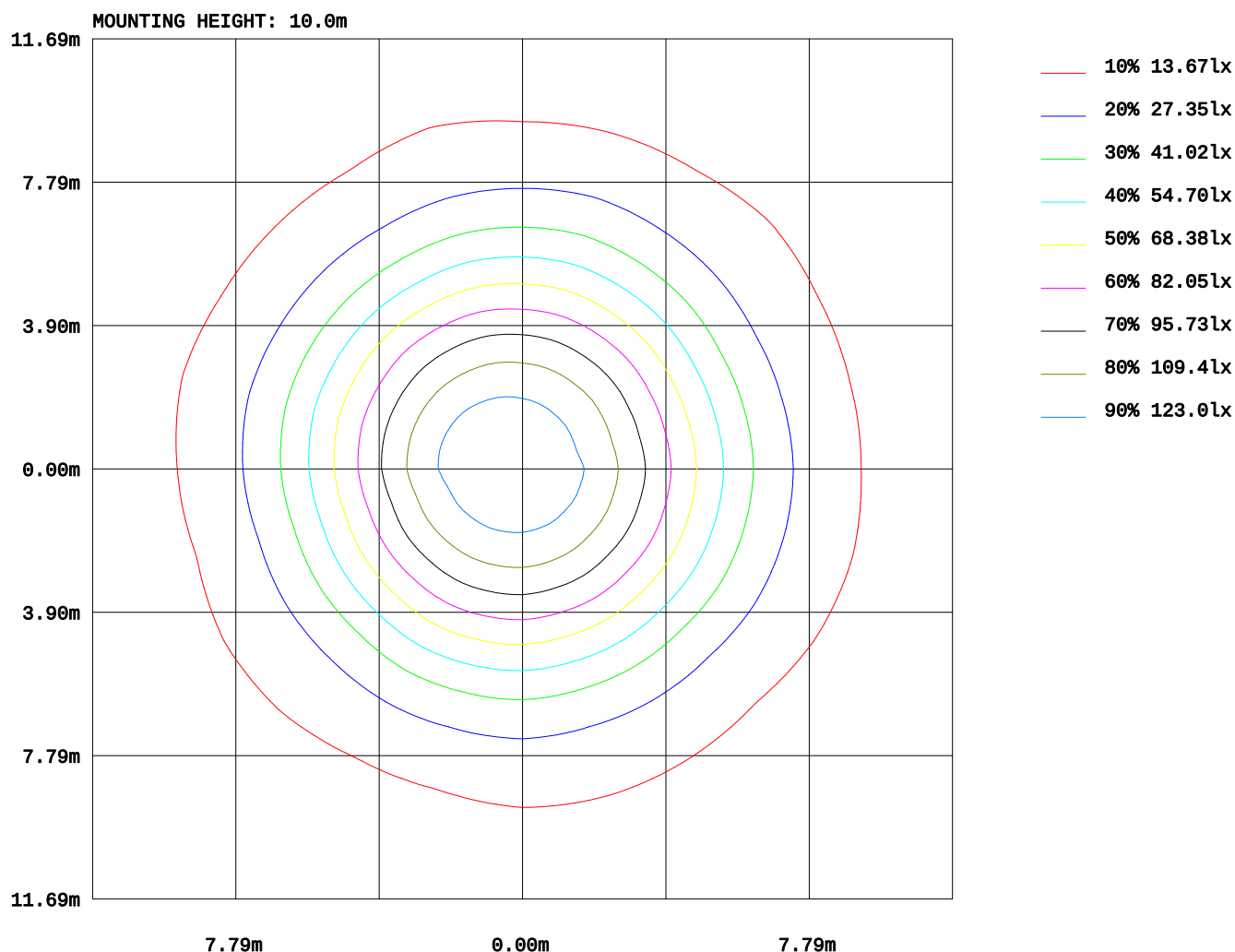
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ISOLUX DIAGRAM

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UGR Table

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SPECIFICATION:	CCT(K): 5027	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	18.8	19.9	19.0	20.1	20.3	18.6	19.7	18.8	19.9	20.1
3H	19.0	20.1	19.3	20.3	20.5	18.8	19.9	19.1	20.1	20.3
4H	19.0	20.0	19.3	20.3	20.5	18.8	19.8	19.1	20.1	20.3
6H	19.0	19.9	19.3	20.2	20.5	18.8	19.7	19.1	20.0	20.3
8H	19.0	19.9	19.3	20.1	20.4	18.7	19.6	19.1	19.9	20.2
12H	18.9	19.8	19.3	20.1	20.4	18.7	19.6	19.1	19.9	20.2
4H 2H	18.8	19.8	19.1	20.0	20.3	18.6	19.6	18.9	19.9	20.1
3H	19.2	20.0	19.5	20.3	20.6	19.0	19.8	19.3	20.1	20.4
4H	19.2	20.0	19.6	20.3	20.6	19.0	19.8	19.4	20.1	20.5
6H	19.2	19.9	19.6	20.2	20.6	19.0	19.7	19.4	20.0	20.4
8H	19.2	19.8	19.6	20.2	20.6	19.0	19.6	19.4	20.0	20.4
12H	19.1	19.7	19.6	20.1	20.5	18.9	19.5	19.4	19.9	20.3
8H 4H	19.1	19.8	19.6	20.1	20.5	19.0	19.6	19.4	20.0	20.4
6H	19.2	19.7	19.6	20.1	20.5	19.0	19.5	19.4	19.9	20.4
8H	19.1	19.6	19.6	20.0	20.5	19.0	19.4	19.4	19.9	20.3
12H	19.1	19.5	19.6	20.0	20.5	18.9	19.3	19.4	19.8	20.3
12H 4H	19.1	19.7	19.5	20.1	20.5	18.9	19.5	19.4	19.9	20.3
6H	19.1	19.6	19.6	20.0	20.5	18.9	19.4	19.4	19.8	20.3
8H	19.1	19.5	19.6	20.0	20.5	18.9	19.3	19.4	19.8	20.3

Variations with the observer position at spacings:

S = 1.0H	+ 1.1 / - 1.5	+ 1.1 / - 1.6
1.5H	+ 1.3 / - 1.1	+ 1.4 / - 1.0
2.0H	+ 2.6 / - 1.9	+ 2.3 / - 1.9

CIE Pub.117 Corrected 17594 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.0)

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SPECIFICATION:	CCT(K): 5027	DIMENSION:	SERIAL No.:

UNIT: μA10cd

γ (deg) \ C(deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	1364	1360	1359	1356	1356	1353	1352	1350	1349	1348	1346	1345	1364	1360	1359
5.0	1331	1326	1325	1324	1326	1328	1332	1334	1339	1343	1347	1350	1371	1369	1366
10.0	1277	1272	1271	1270	1274	1277	1284	1289	1299	1307	1319	1325	1352	1354	1351
15.0	1201	1193	1193	1192	1199	1204	1215	1221	1234	1244	1259	1270	1304	1309	1302
20.0	1084	1075	1075	1073	1082	1086	1101	1108	1123	1133	1152	1163	1203	1211	1209
25.0	936	926	923	915	924	929	947	954	969	972	990	1004	1049	1062	1062
30.0	758	748	742	730	738	744	762	767	782	781	798	810	849	875	869
35.0	567	564	554	536	538	546	564	562	569	568	581	591	630	656	650
40.0	410	416	405	381	389	399	407	389	393	413	421	411	445	467	452
45.0	293	301	293	261	281	291	291	264	278	306	312	294	310	335	317
50.0	206	203	206	179	197	198	203	180	195	208	217	189	215	217	221
55.0	141	135	140	123	135	132	136	121	132	138	147	128	145	154	149
60.0	95.3	90.8	93.9	83.3	90.8	88.6	91.5	81.9	89.0	91.6	97.9	87.2	95.3	103	97.9
65.0	62.1	58.2	60.9	54.2	59.3	56.7	59.0	52.6	58.0	58.2	62.9	56.1	61.2	67.1	63.4
70.0	37.4	33.9	36.6	32.1	36.2	32.7	34.7	31.2	35.1	33.5	37.0	32.5	35.8	40.2	38.0
75.0	18.5	15.9	18.7	15.7	18.7	15.1	18.3	14.3	18.5	15.9	18.4	15.2	16.6	17.6	18.1
80.0	9.76	7.07	9.94	7.05	9.17	6.30	9.01	6.52	9.66	7.01	9.17	6.25	7.17	10.0	7.77
85.0	3.05	1.17	3.17	1.28	2.74	0.90	2.44	0.83	2.67	1.15	2.70	0.95	1.34	3.06	1.95
90.0	1.27	0.54	1.28	0.54	1.27	0.55	1.26	0.55	1.26	0.54	1.27	0.53	0.53	1.29	0.51
95.0	1.23	0.67	1.23	0.67	1.23	0.68	1.22	0.67	1.23	0.67	1.23	0.65	0.66	1.22	0.63
100.0	1.27	0.85	1.28	0.85	1.28	0.87	1.28	0.86	1.28	0.86	1.27	0.83	0.84	1.26	0.80
105.0	1.40	1.09	1.41	1.10	1.42	1.12	1.43	1.11	1.42	1.10	1.40	1.06	1.08	1.38	1.03
110.0	1.65	1.43	1.66	1.45	1.66	1.46	1.68	1.46	1.66	1.42	1.63	1.38	1.41	1.59	1.33
115.0	2.00	1.88	2.01	1.91	2.01	1.91	2.04	1.91	1.99	1.84	1.94	1.80	1.85	1.92	1.74
120.0	2.48	2.45	2.51	2.49	2.51	2.48	2.53	2.47	2.46	2.36	2.38	2.31	2.40	2.35	2.27
125.0	3.11	3.14	3.13	3.19	3.14	3.17	3.15	3.14	3.04	3.01	2.95	2.94	3.05	2.92	2.89
130.0	3.82	3.92	3.84	3.98	3.85	3.96	3.85	3.89	3.71	3.73	3.59	3.66	3.80	3.59	3.63
135.0	4.62	4.74	4.62	4.79	4.63	4.78	4.63	4.68	4.45	4.50	4.34	4.43	4.62	4.33	4.42
140.0	5.45	5.59	5.43	5.62	5.45	5.64	5.44	5.50	5.23	5.31	5.11	5.24	5.44	5.13	5.22
145.0	6.25	6.42	6.20	6.42	6.24	6.49	6.23	6.31	5.99	6.11	5.88	6.07	6.29	5.97	6.06
150.0	7.04	7.18	6.96	7.18	7.03	7.28	7.01	7.06	6.76	6.90	6.67	6.88	7.11	6.79	6.89
155.0	7.77	7.92	7.69	7.92	7.80	8.08	7.73	7.80	7.51	7.68	7.47	7.70	7.88	7.63	7.70
160.0	8.48	8.64	8.39	8.65	8.53	8.84	8.44	8.52	8.23	8.43	8.23	8.50	8.71	8.45	8.50
165.0	9.24	9.33	9.10	9.32	9.23	9.53	9.21	9.21	8.94	9.12	8.98	9.24	9.50	9.21	9.21
170.0	9.98	9.96	9.77	9.94	9.85	10.1	9.94	9.84	9.62	9.75	9.63	9.87	10.2	9.87	9.86
175.0	10.5	10.4	10.2	10.3	10.2	10.4	10.4	10.2	10.1	10.2	10.1	10.2	10.7	10.3	10.3
180.0	10.8	10.5	10.4	10.4	10.4	10.4	10.6	10.4	10.3	10.3	10.3	10.4	10.9	10.5	10.5

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UNIT: μA10cd

γ (deg) \ C(deg)	225	240	255	270	285	300	315	330	345
0.0	1356	1356	1353	1352	1350	1349	1348	1346	1345
5.0	1364	1359	1352	1343	1336	1328	1322	1316	1313
10.0	1345	1333	1322	1307	1296	1284	1276	1266	1262
15.0	1295	1278	1267	1249	1238	1220	1211	1195	1189
20.0	1206	1190	1177	1156	1141	1118	1103	1082	1075
25.0	1060	1045	1035	1016	1002	976	956	932	925
30.0	870	851	853	836	829	797	780	750	750
35.0	643	630	638	634	633	604	584	558	558
40.0	445	439	457	449	452	436	434	412	406
45.0	312	309	340	315	315	312	329	305	290
50.0	213	215	236	221	213	218	218	217	200
55.0	145	146	158	150	144	147	156	149	136
60.0	98.2	96.8	107	99.5	97.8	97.1	105	98.5	93.4
65.0	65.0	63.4	69.4	64.5	64.6	63.2	68.9	64.0	61.9
70.0	40.1	38.0	42.0	38.1	39.6	38.2	42.4	38.4	37.8
75.0	17.9	18.0	17.6	17.9	17.7	18.1	23.2	18.3	17.6
80.0	11.3	7.39	10.8	7.99	11.0	8.78	12.8	8.67	10.3
85.0	4.03	1.82	3.20	1.69	3.63	2.22	4.72	2.04	3.15
90.0	1.31	0.51	1.31	0.50	1.30	0.50	1.35	0.52	1.28
95.0	1.21	0.62	1.21	0.61	1.20	0.62	1.23	0.63	1.20
100.0	1.24	0.78	1.24	0.78	1.23	0.78	1.26	0.80	1.25
105.0	1.35	1.01	1.35	1.01	1.33	1.01	1.37	1.04	1.37
110.0	1.56	1.31	1.55	1.31	1.54	1.31	1.58	1.35	1.61
115.0	1.87	1.72	1.86	1.72	1.87	1.74	1.89	1.78	1.96
120.0	2.30	2.24	2.28	2.26	2.31	2.28	2.33	2.33	2.43
125.0	2.86	2.87	2.84	2.89	2.89	2.92	2.92	2.99	3.04
130.0	3.53	3.60	3.52	3.64	3.57	3.67	3.61	3.75	3.77
135.0	4.26	4.39	4.25	4.45	4.31	4.48	4.37	4.58	4.54
140.0	5.05	5.20	5.05	5.28	5.12	5.29	5.17	5.41	5.37
145.0	5.84	6.03	5.87	6.11	5.95	6.11	5.97	6.23	6.17
150.0	6.61	6.83	6.66	6.92	6.75	6.92	6.74	7.02	6.93
155.0	7.41	7.59	7.42	7.66	7.54	7.70	7.51	7.74	7.66
160.0	8.17	8.34	8.16	8.44	8.32	8.45	8.23	8.43	8.34
165.0	8.90	9.05	8.87	9.21	9.05	9.12	8.91	9.09	8.99
170.0	9.58	9.73	9.55	9.96	9.71	9.75	9.54	9.71	9.62
175.0	10.1	10.2	10.1	10.5	10.2	10.2	10.0	10.1	10.1
180.0	10.4	10.4	10.4	10.7	10.4	10.3	10.3	10.3	10.3

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