

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm										
NAME: UB-AS-40K90C-24V					TYPE: LED Strip			WEIGHT:Kg		
SPEC.:14.4W					DIM.: 1000*10*2(MM)			SERIAL No.:001		
MFR.: Flexfire LEDs, Inc.					SUR.:1000*10(MM)			Shielding Angle:120		
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	25.4	26.9	25.7	27.1	27.4	25.1	26.7	25.4	26.9	27.1
3H	27.2	28.6	27.5	28.8	29.1	26.8	28.2	27.1	28.4	28.7
4H	28.0	29.3	28.3	29.6	29.9	27.4	28.8	27.7	29.0	29.3
6H	28.7	29.9	29.0	30.2	30.5	27.9	29.2	28.3	29.5	29.8
8H	29.0	30.2	29.3	30.5	30.8	28.1	29.3	28.4	29.6	29.9
12H	29.3	30.5	29.7	30.8	31.1	28.2	29.4	28.6	29.7	30.0
4H 2H	26.1	27.4	26.4	27.7	28.0	25.9	27.2	26.2	27.5	27.8
3H	28.0	29.2	28.4	29.5	29.9	27.7	28.9	28.1	29.2	29.5
4H	29.0	30.0	29.4	30.4	30.8	28.5	29.6	28.9	29.9	30.3
6H	29.8	30.8	30.3	31.2	31.6	29.2	30.1	29.6	30.5	30.9
8H	30.2	31.1	30.7	31.5	31.9	29.4	30.3	29.8	30.7	31.1
12H	30.6	31.5	31.1	31.9	32.3	29.6	30.4	30.0	30.8	31.2
8H 4H	29.3	30.2	29.8	30.6	31.0	28.9	29.8	29.4	30.2	30.6
6H	30.4	31.1	30.9	31.6	32.0	29.8	30.5	30.2	30.9	31.4
8H	30.9	31.6	31.4	32.0	32.5	30.1	30.8	30.6	31.3	31.7
12H	31.5	32.1	32.0	32.5	33.1	30.4	31.0	30.9	31.5	32.0
12H 4H	29.3	30.2	29.8	30.6	31.0	29.0	29.8	29.4	30.2	30.6
6H	30.5	31.2	31.0	31.6	32.1	29.9	30.6	30.4	31.0	31.5
8H	31.1	31.7	31.6	32.1	32.7	30.3	30.9	30.8	31.4	31.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 1591 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm		
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SPEC.:14.4W	DIM.: 1000*10*2(MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10(MM)	Shielding Angle:120

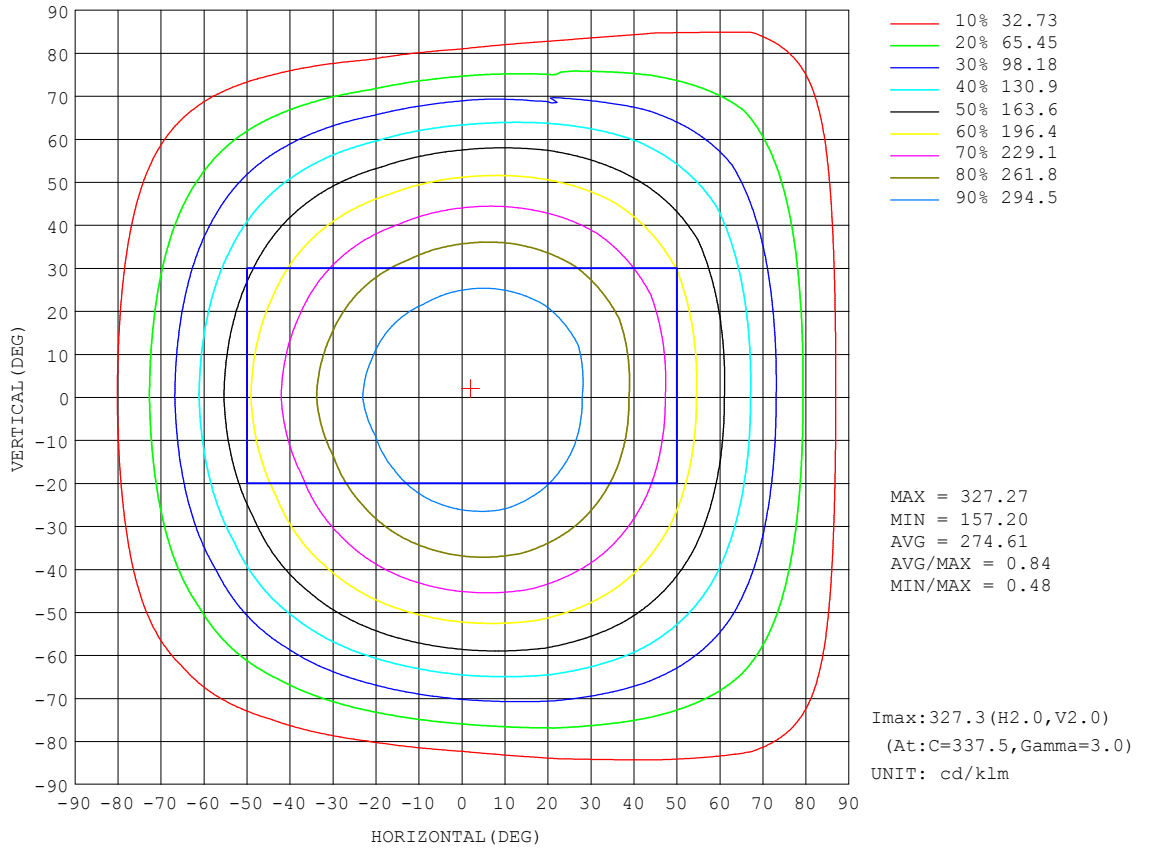
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	44	37	30
0.80	66	54	47	65	54	47	63	53	46	39
1.00	74	63	56	73	62	55	71	64	55	47
1.25	82	71	63	80	70	63	77	68	62	54
1.50	87	76	69	85	75	69	82	74	67	60
2.00	94	85	78	92	83	77	88	81	76	67
2.50	98	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	85	76
4.00	105	99	94	103	97	93	98	94	90	80
5.00	108	102	98	105	100	96	100	97	93	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHR NOM = 1.25			

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ISOCANDELA DIAGRAM

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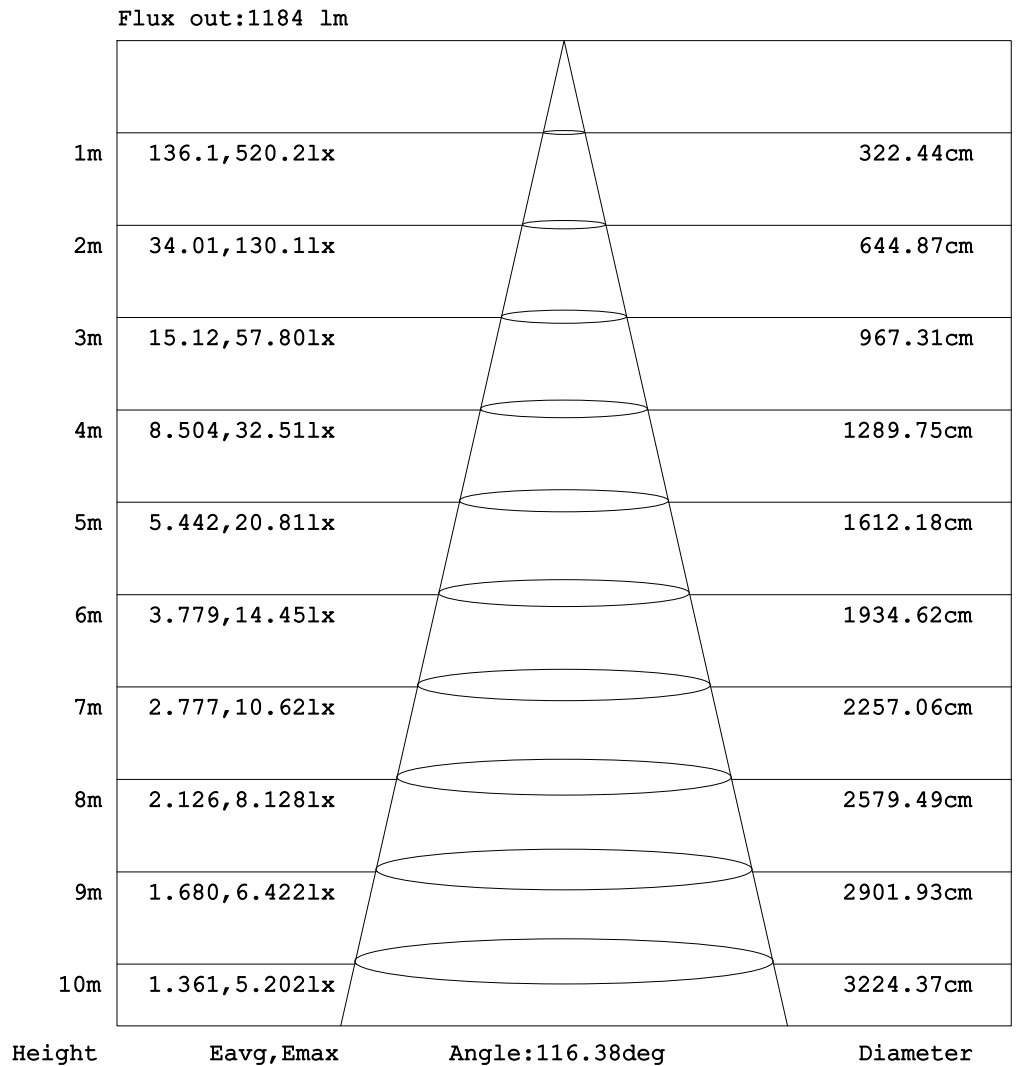


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AAI Figure

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SPEC.:14.4W	DIM.: 1000*10*2(MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10(MM)	Shielding Angle:120



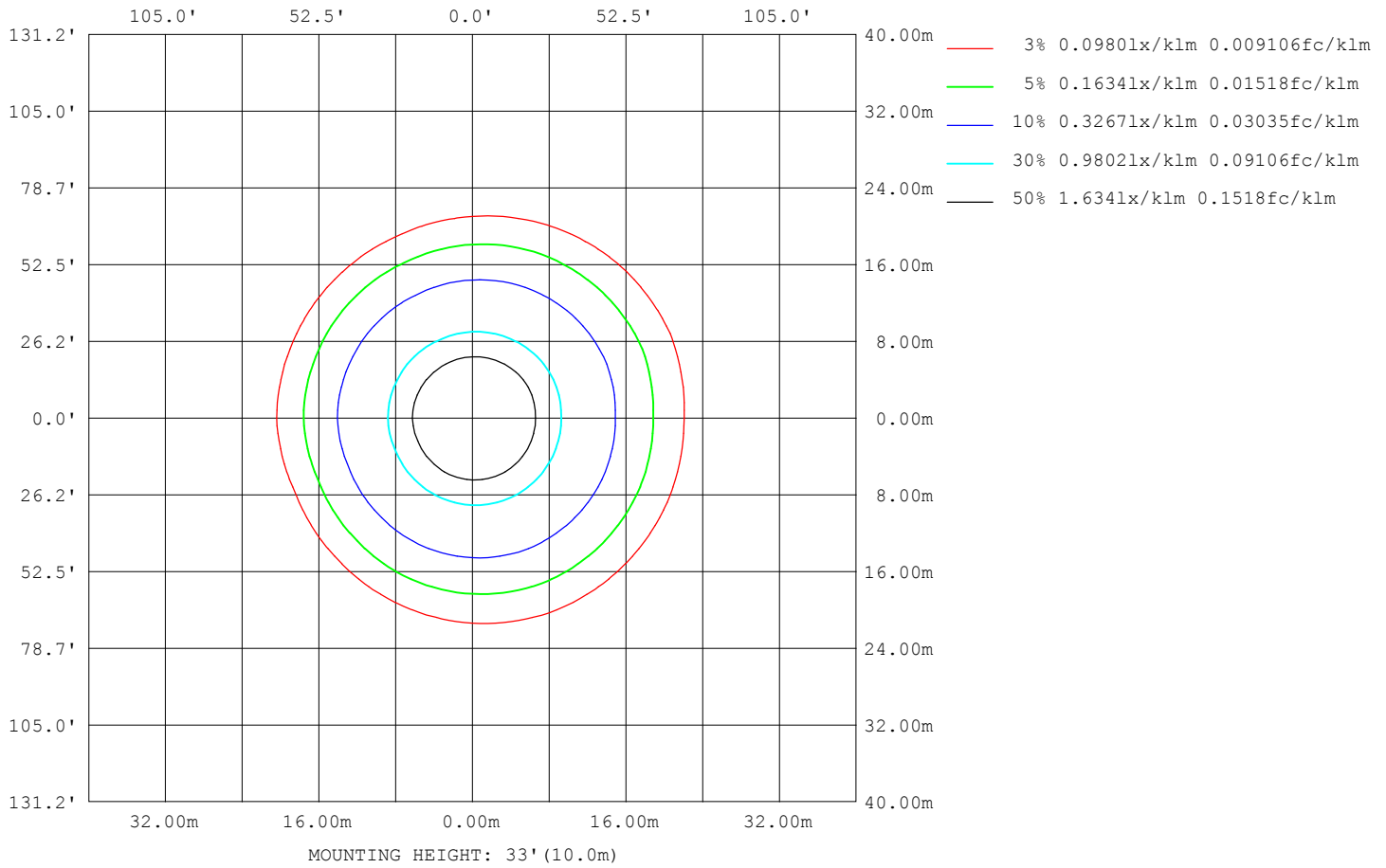
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120



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LED Avg.L Report

Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm		
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SPEC.:14.4W	DIM.: 1000*10*2 (MM)	SERIAL No.:001
MFR.: Flexfire LEDs, Inc.	SUR.:1000*10 (MM)	Shielding Angle:120

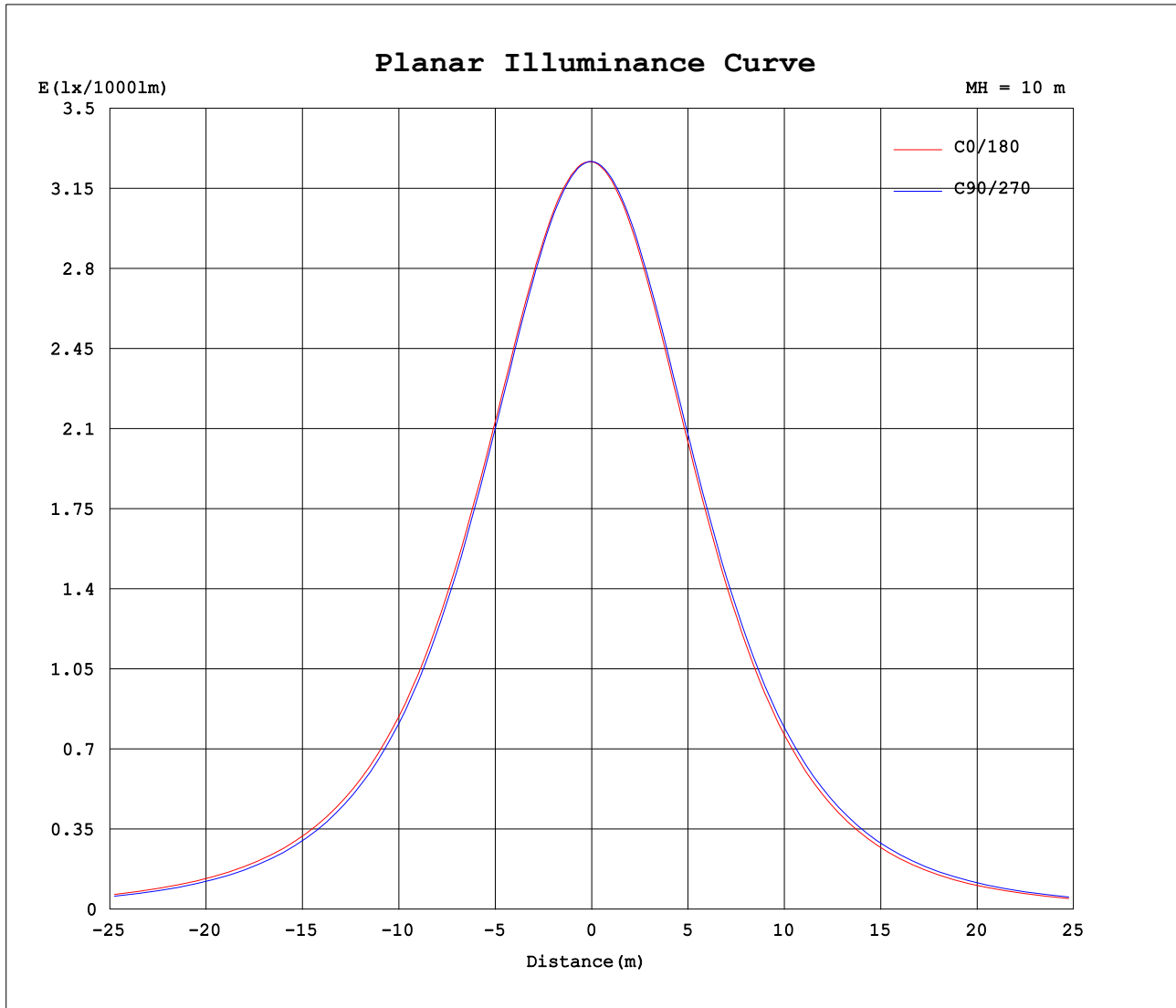
AvgL	cd/m2
L_0~180 (65) av	47222
L_0~180 (75) av	43600
L_0~180 (85) av	53957
L_90~270 (65) av	46892
L_90~270 (75) av	41266
L_90~270 (85) av	33805
L_45 (65) av	47162
L_45 (75) av	42696
L_45 (85) av	47603

Standard: GB/T 29293-2012

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

Planar Illuminance Curve



C Range: 0 - 360DEG
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 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm		
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MFR.: Flexfire LEDs, Inc.	SUR.:1000*10(MM)	Shielding Angle:120

Table--1

UNIT: cd/klm

C (DEG) \ γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327			
5	327	327	327	327	326	325	324	324	324	324	324	324	325	326	327	327			
10	324	324	324	324	322	321	319	318	320	319	319	320	321	323	324	325			
15	319	319	319	319	317	314	311	310	312	311	312	312	315	317	320	321			
20	311	312	312	311	308	305	301	300	302	301	302	303	306	309	312	314			
25	302	302	302	301	297	293	289	287	290	289	289	290	294	298	303	305			
30	289	290	290	289	284	279	274	271	275	273	274	276	280	286	291	293			
35	275	276	275	274	268	263	257	253	258	256	257	258	264	270	276	279			
40	258	259	258	257	250	244	237	233	238	236	237	239	246	253	260	263			
45	239	240	239	237	230	222	215	210	216	214	215	217	225	233	241	244			
50	217	219	218	215	207	199	190	186	192	190	191	193	202	211	219	223			
55	194	196	194	191	183	174	164	159	166	163	165	167	177	187	196	201			
60	169	171	169	165	156	146	136	131	138	136	137	140	150	161	169	177			
65	142	144	142	138	128	117	107	101	108	107	108	111	121	133	144	150			
70	115	116	114	110	99.7	88.7	78.6	73.2	79.9	78.2	78.7	81.3	91.5	97.1	116	123			
75	87.8	88.9	86.3	81.2	71.0	60.7	51.7	48.1	54.0	51.9	51.8	53.5	63.3	73.0	88.0	95.1			
80	62.3	63.0	59.4	54.3	44.0	35.7	29.9	28.6	33.3	31.4	29.7	29.5	37.2	48.9	61.0	68.4			
85	40.2	40.8	36.6	30.6	21.2	16.4	15.2	15.6	18.9	17.2	15.0	12.3	15.8	26.2	37.6	44.8			
90	22.3	22.7	19.0	13.2	2.58	5.72	6.54	7.43	9.62	8.49	6.47	3.89	0.46	9.01	19.6	25.7			
95	9.86	10.1	7.51	3.75	0.65	1.68	2.45	3.02	4.07	3.40	2.29	1.17	0.61	2.67	7.27	12.0			
100	3.37	3.49	2.24	1.08	0.84	0.99	1.28	1.36	1.36	1.24	1.06	0.85	0.78	0.94	2.41	3.23			
105	1.20	1.30	1.22	0.96	1.05	1.15	1.29	1.33	0.96	1.07	1.11	1.01	0.96	0.86	1.12	1.25			
110	1.10	1.20	1.14	1.15	1.25	1.35	1.43	1.47	1.13	1.22	1.22	1.21	1.15	1.03	1.00	1.00			
115	1.26	1.28	1.27	1.35	1.45	1.56	1.63	1.64	1.33	1.39	1.44	1.43	1.35	1.22	1.13	1.05			
120	1.45	1.46	1.44	1.55	1.65	1.77	1.83	1.84	1.53	1.59	1.65	1.64	1.55	1.41	1.32	1.25			
125	1.65	1.65	1.66	1.75	1.85	1.96	2.01	2.03	1.72	1.79	1.85	1.84	1.75	1.61	1.51	1.45			
130	1.84	1.85	1.87	1.93	2.03	2.14	2.19	2.21	1.90	1.96	2.03	2.02	1.93	1.79	1.70	1.64			
135	2.03	2.03	2.05	2.10	2.19	2.29	2.35	2.37	2.07	2.13	2.20	2.19	2.10	1.96	1.88	1.85			
140	2.21	2.21	2.22	2.28	2.35	2.44	2.49	2.52	2.24	2.28	2.37	2.34	2.26	2.13	2.06	2.03			
145	2.40	2.39	2.41	2.45	2.52	2.59	2.64	2.68	2.42	2.45	2.53	2.50	2.43	2.32	2.26	2.24			
150	2.58	2.57	2.57	2.61	2.65	2.72	2.77	2.82	2.59	2.61	2.68	2.64	2.58	2.49	2.44	2.44			
155	2.72	2.71	2.71	2.74	2.77	2.83	2.87	2.92	2.74	2.73	2.79	2.75	2.70	2.63	2.59	2.60			
160	2.84	2.83	2.83	2.84	2.85	2.91	2.95	3.00	2.86	2.82	2.89	2.85	2.80	2.72	2.72	2.75			
165	2.95	2.93	2.92	2.92	2.92	2.97	3.00	3.06	2.95	2.92	2.97	2.93	2.89	2.83	2.83	2.87			
170	3.02	3.00	2.99	2.98	2.97	3.00	3.03	3.10	3.02	2.99	3.02	2.99	2.97	2.91	2.92	2.96			
175	3.06	3.02	3.03	3.01	3.01	3.02	3.06	3.10	3.03	2.99	3.02	3.01	2.99	2.95	2.97	3.00			
180	3.06	3.01	3.03	3.01	3.00	2.99	3.01	3.05	3.05	3.00	3.03	3.00	2.99	2.99	2.99	3.05			

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