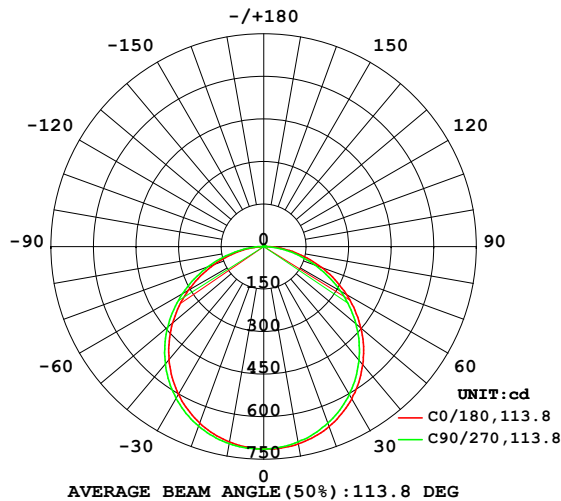


LUMINAIRE PHOTOMETRIC TEST REPORT

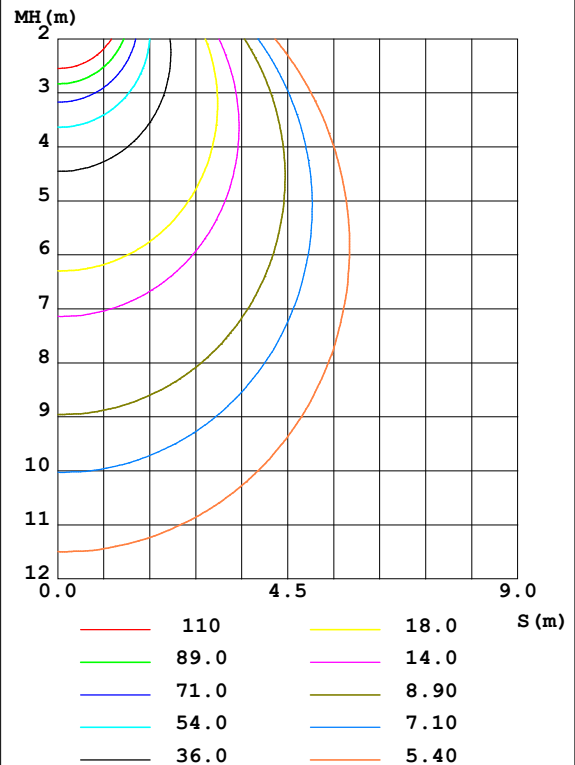
Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.17 lm/W
MODEL	ASD-JBS-12D24WH	I _{max} (cd)	714.6	S/MH (C0/180)	1.25	
NOMINAL POWER (W)	24	LOR (%)	100.0	S/MH (C90/270)	1.28	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2095.85	η UP,DN (C0-180)	0.4,49.1	
NOMINAL FLUX (lm)	2095.85	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.4,50.1	
LAMPS INSIDE	1	η up (%)	0.8	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	120	η down (%)	99.2	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

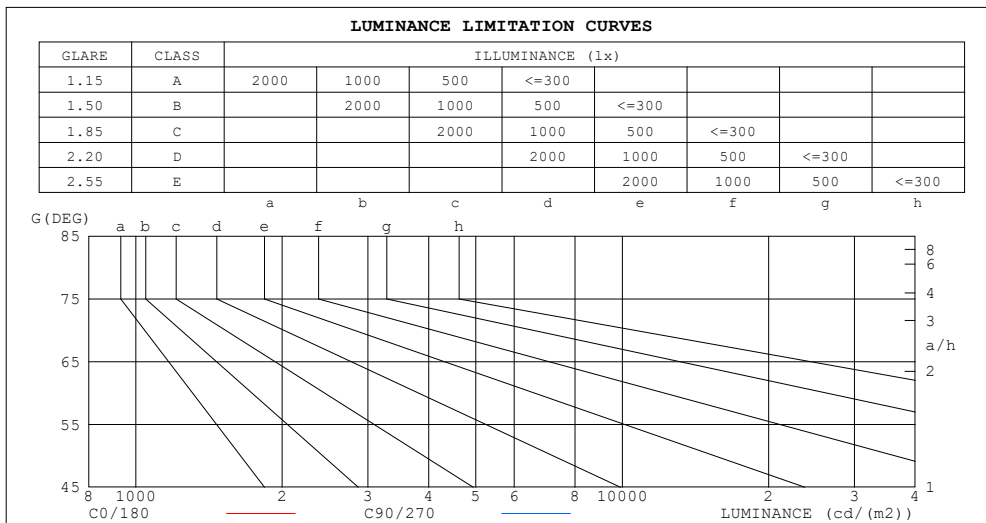
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	706.0	701.2	699.2	698.0	699.4	703.7	705.2	705.6	0- 10	67.59	67.59	3.22,3.22
20	675.1	665.4	662.3	660.1	661.5	670.7	673.3	674.9	10- 20	194.2	261.8	12.5,12.5
30	620.3	606.5	603.0	600.2	601.9	614.3	618.1	620.1	20- 30	295.9	557.7	26.6,26.6
40	543.6	527.2	523.0	518.9	520.0	535.5	540.1	542.7	30- 40	358.5	916.3	43.7,43.7
50	447.1	428.2	424.7	420.3	419.7	437.3	442.8	445.7	40- 50	373.3	1290	61.5,61.5
60	336.4	316.4	312.5	307.9	306.1	324.7	330.3	333.5	50- 60	338.0	1628	77.7,77.7
70	217.6	198.3	194.2	189.4	187.1	204.5	210.3	213.4	60- 70	258.5	1886	90,90
80	103.1	86.21	81.57	77.01	74.88	89.27	92.99	96.33	70- 80	151.3	2037	97.2,97.2
90	5.969	0.7963	0.9717	0.8564	1.048	1.617	3.198	2.758	80- 90	41.91	2079	99.2,99.2
100	0.7725	0.8968	0.9995	0.9834	1.217	1.228	1.471	1.460	90-100	1.162	2080	99.3,99.3
110	1.491	1.675	1.713	1.724	1.974	1.888	2.082	2.126	100-110	1.550	2082	99.3,99.3
120	2.329	2.540	2.546	2.556	2.823	2.682	2.780	2.818	110-120	2.224	2084	99.4,99.4
130	3.081	3.303	3.287	3.281	3.521	3.385	3.412	3.445	120-130	2.693	2087	99.6,99.6
140	3.670	3.833	3.811	3.800	4.001	3.909	3.866	3.904	130-140	2.796	2090	99.7,99.7
150	3.958	4.082	4.077	4.055	4.217	4.142	4.104	4.131	140-150	2.508	2092	99.8,99.8
160	4.184	4.271	4.238	4.303	4.261	4.212	4.174	4.196	150-160	1.920	2094	99.9,99.9
170	4.644	4.730	4.779	4.795	4.764	4.640	4.575	4.586	160-170	1.252	2095	100,100
180	5.158	5.217	5.120	5.109	5.153	5.217	5.109	5.093	170-180	0.4663	2096	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:8.898m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	73579	44733
80	74242	58716
75	76720	65852
70	79514	70982
65	82104	74993
60	84105	78124
55	85634	80611
50	86948	82589
45	88000	84101

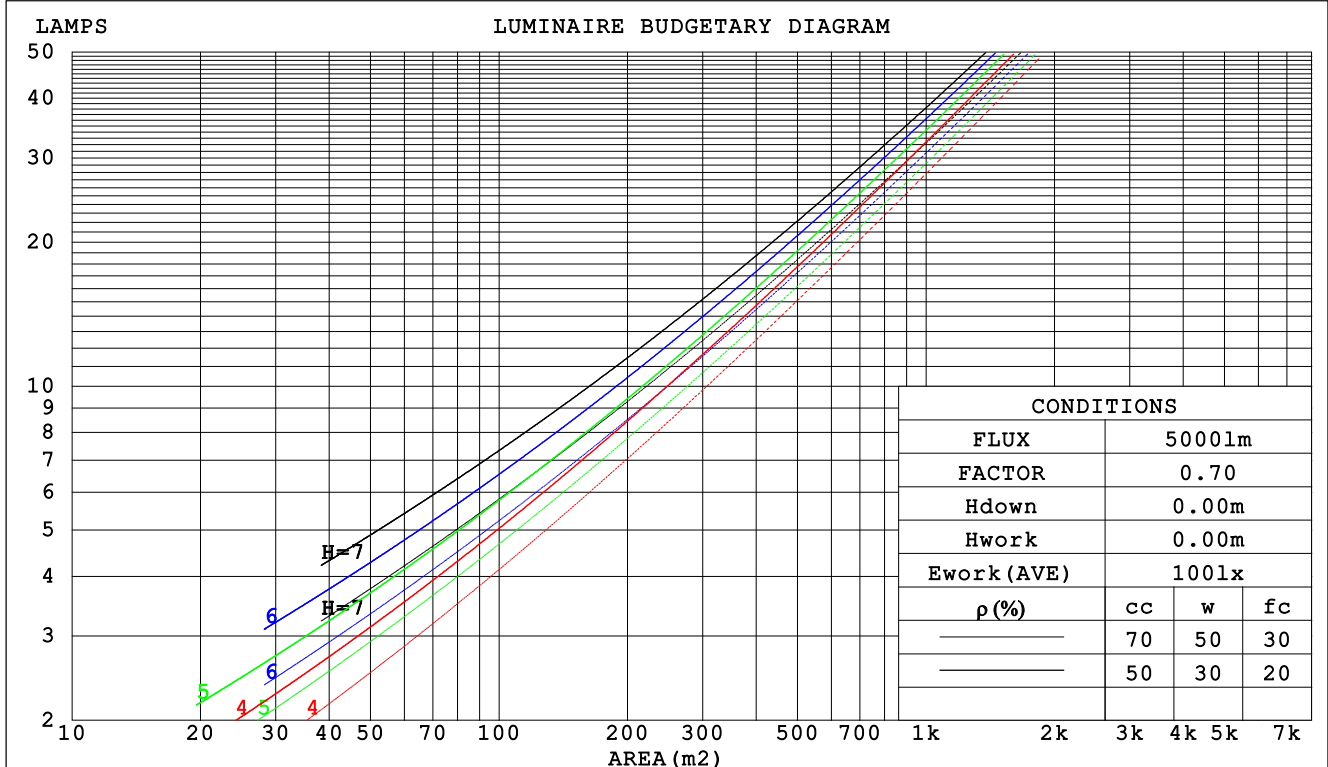
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm					
NAME: ASD-JBS-12D24WH			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting corp			SUR.:		Shielding Angle:0

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.313	.178	.056	.305	.174	.055	.292	.167	.053	.279	.161	.052	.267	.155	.050		
2.0	.294	.161	.049	.287	.158	.049	.275	.153	.048	.264	.148	.046	.254	.143	.045		
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040		
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033		
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030		
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.147	.074	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.187	.162	.140	.160	.139	.121	.109	.096	.083	.063	.055	.049	.020	.018	.016	
2.0	.179	.138	.104	.153	.119	.090	.105	.082	.063	.060	.048	.037	.019	.015	.012	
3.0	.171	.120	.080	.147	.104	.070	.101	.072	.049	.058	.042	.029	.019	.014	.009	
4.0	.163	.107	.064	.140	.093	.056	.096	.065	.039	.056	.038	.023	.018	.012	.008	
5.0	.156	.097	.053	.134	.084	.046	.092	.059	.033	.053	.034	.019	.017	.011	.006	
6.0	.149	.088	.045	.128	.077	.039	.088	.054	.028	.051	.032	.017	.017	.010	.005	
7.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
8.0	.135	.076	.035	.117	.066	.030	.081	.046	.022	.047	.027	.013	.015	.009	.004	
9.0	.129	.071	.031	.111	.062	.027	.077	.043	.019	.045	.026	.012	.015	.008	.004	
10.0	.124	.067	.029	.107	.058	.025	.074	.041	.018	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm										
NAME: ASD-JBS-12D24WH					TYPE:			WEIGHT:		
SPEC.:5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting corp					SUR.:			Shielding Angle:0		
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	25.8	27.3	26.0	27.5	27.7	25.4	27.0	25.7	27.2	27.4
3H	27.4	28.8	27.7	29.0	29.3	26.9	28.4	27.3	28.6	28.9
4H	28.1	29.4	28.4	29.7	29.9	27.5	28.9	27.9	29.1	29.4
6H	28.6	29.9	29.0	30.2	30.5	28.0	29.2	28.3	29.5	29.8
8H	28.8	30.0	29.2	30.3	30.6	28.1	29.3	28.5	29.6	29.9
12H	29.0	30.1	29.3	30.4	30.8	28.2	29.3	28.5	29.6	30.0
4H 2H	26.3	27.6	26.6	27.9	28.2	26.1	27.4	26.4	27.7	28.0
3H	28.1	29.3	28.5	29.6	29.9	27.8	28.9	28.1	29.2	29.6
4H	28.9	30.0	29.3	30.3	30.7	28.5	29.5	28.9	29.9	30.2
6H	29.6	30.6	30.0	30.9	31.3	29.0	30.0	29.4	30.3	30.7
8H	29.9	30.8	30.3	31.2	31.6	29.2	30.1	29.6	30.5	30.9
12H	30.1	30.9	30.6	31.3	31.7	29.3	30.1	29.7	30.5	30.9
8H 4H	29.2	30.1	29.6	30.5	30.9	28.8	29.7	29.2	30.0	30.4
6H	30.0	30.8	30.5	31.2	31.6	29.5	30.2	29.9	30.6	31.1
8H	30.4	31.1	30.9	31.5	32.0	29.7	30.4	30.2	30.8	31.3
12H	30.7	31.3	31.2	31.7	32.2	29.9	30.5	30.4	30.9	31.4
12H 4H	29.2	30.0	29.6	30.4	30.8	28.8	29.6	29.2	30.0	30.4
6H	30.1	30.7	30.6	31.2	31.6	29.5	30.2	30.0	30.6	31.1
8H	30.5	31.1	31.0	31.5	32.0	29.8	30.4	30.3	30.9	31.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				

CIE Pub.117, 2096 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.6)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

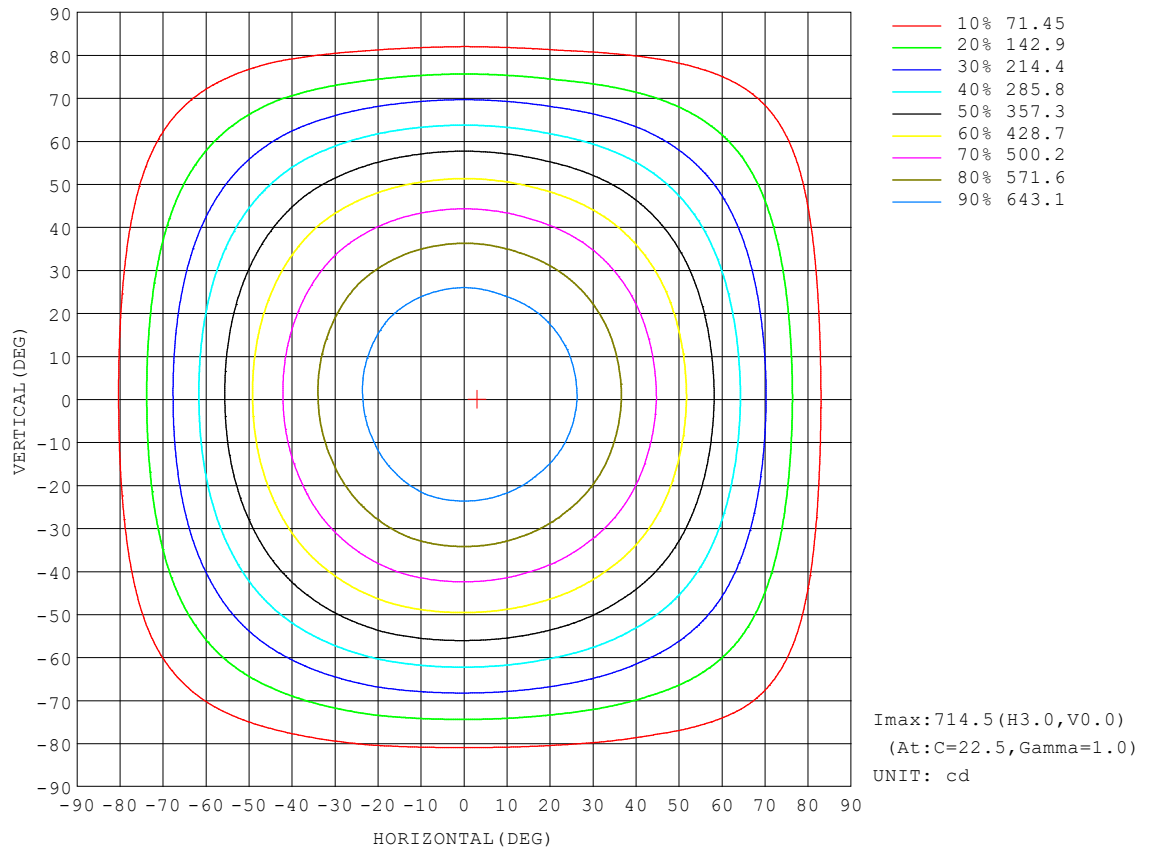
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	91	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

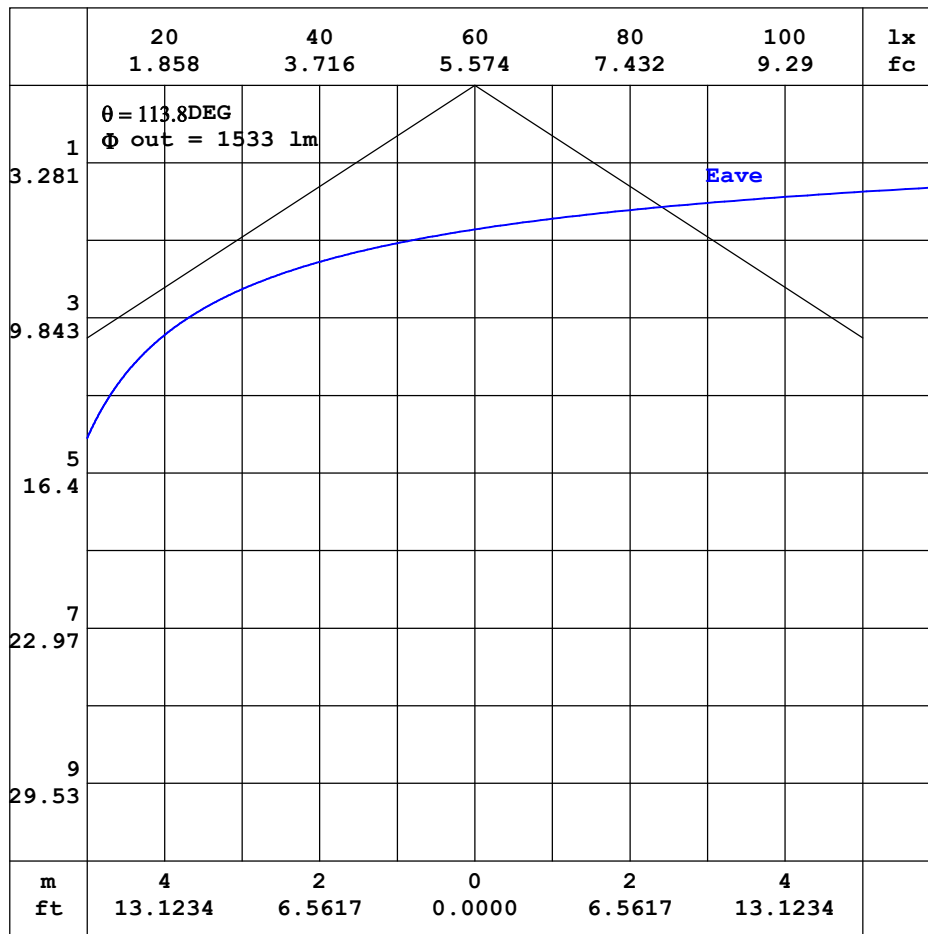


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0



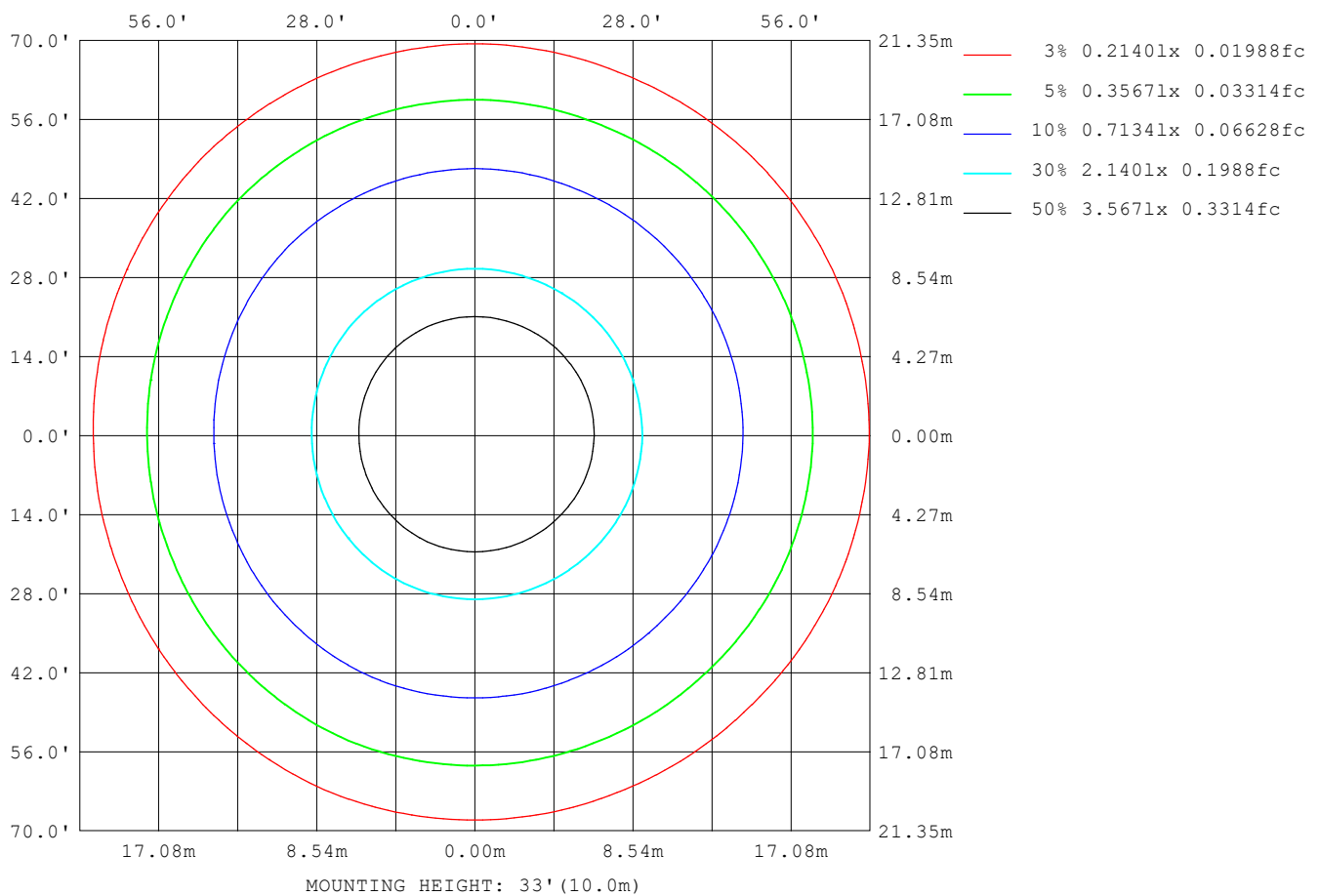
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2025-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 8.898m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

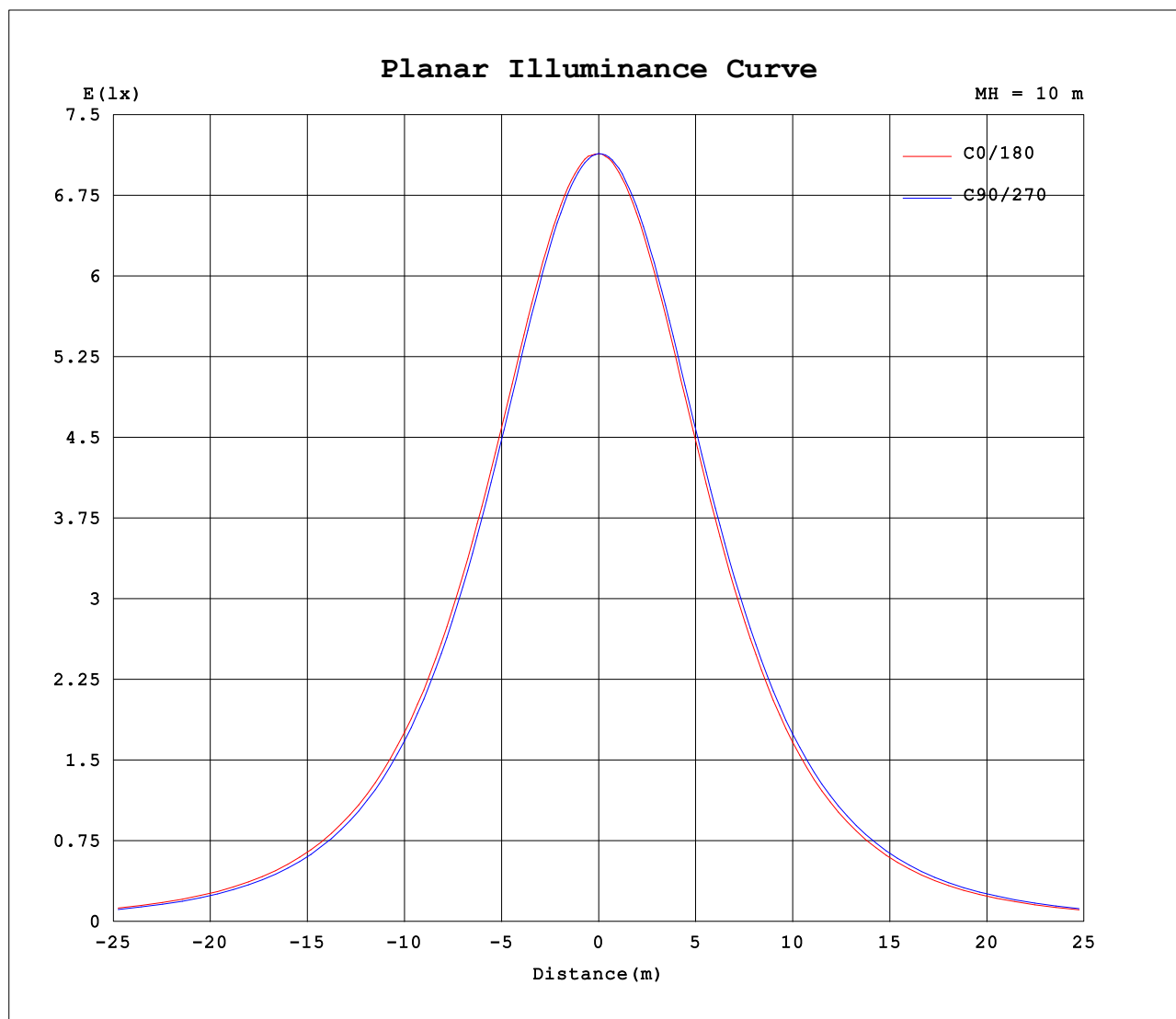
AvgL	cd/m2
L_0~180 (65) av	77523
L_0~180 (75) av	69610
L_0~180 (85) av	55240
L_90~270 (65) av	77517
L_90~270 (75) av	69194
L_90~270 (85) av	51365
L_45 (65) av	77263
L_45 (75) av	68973
L_45 (85) av	51344

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.898m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2025-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 8.898m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:0.1873A P:22.256W PF:0.9891 Freq:59.98Hz Lamp Flux:2095.85x1 lm		
NAME: ASD-JBS-12D24WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

Table--1

UNIT: cd

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	713	714	714	714	714	714	713	713	713	714	714	714	714	714	713	713			
5	713	712	710	710	709	709	709	708	710	711	712	712	712	712	712	713			
10	706	704	701	700	699	700	698	698	699	702	704	705	705	705	706	706			
15	693	690	686	685	684	684	682	682	683	687	690	692	692	692	693	694			
20	675	670	665	664	662	663	660	660	662	666	671	673	673	673	675	675			
25	650	646	639	636	635	636	633	632	635	639	645	647	649	647	650	651			
30	620	614	606	604	603	604	600	599	602	607	614	617	618	617	620	621			
35	585	578	570	566	566	566	562	560	563	569	578	580	582	580	584	586			
40	544	537	527	523	523	524	519	517	520	527	535	538	540	539	543	545			
45	498	490	480	476	476	476	471	469	472	479	488	492	493	492	496	498			
50	447	439	428	424	425	425	420	417	420	427	437	441	443	441	446	448			
55	393	385	374	370	370	371	365	362	364	372	383	386	388	386	391	394			
60	336	328	316	312	312	313	308	304	306	314	325	328	330	328	334	336			
65	278	269	257	253	254	255	249	245	247	254	265	268	271	268	274	277			
70	218	210	198	194	194	195	189	185	187	195	204	208	210	207	213	217			
75	159	151	141	136	136	137	132	128	129	136	145	147	150	147	154	157			
80	103	96.6	86.2	82.7	81.6	82.9	77.0	73.4	74.9	81.3	89.3	90.1	93.0	90.7	96.3	100			
85	51.3	45.4	36.2	32.2	31.2	31.4	26.5	23.8	25.7	30.7	36.4	37.8	40.4	38.6	44.1	48.0			
90	5.97	2.96	0.80	0.91	0.97	0.96	0.86	0.74	1.05	0.94	1.62	2.32	3.20	2.80	2.76	4.97			
95	0.53	0.58	0.61	0.75	0.82	0.86	0.76	0.74	0.97	0.83	1.03	1.27	1.40	1.44	1.34	1.09			
100	0.77	0.87	0.90	0.99	1.00	1.03	0.98	1.00	1.22	1.11	1.23	1.35	1.47	1.50	1.46	1.28			
105	1.11	1.22	1.26	1.34	1.32	1.34	1.33	1.35	1.57	1.46	1.56	1.66	1.73	1.77	1.76	1.58			
110	1.49	1.63	1.68	1.74	1.71	1.73	1.72	1.74	1.97	1.87	1.89	2.05	2.08	2.14	2.13	1.91			
115	1.90	2.07	2.10	2.15	2.13	2.13	2.14	2.16	2.40	2.30	2.29	2.40	2.47	2.52	2.48	2.31			
120	2.33	2.49	2.54	2.59	2.55	2.56	2.56	2.56	2.82	2.72	2.68	2.75	2.78	2.84	2.82	2.70			
125	2.72	2.89	2.96	2.99	2.96	2.95	2.94	2.94	3.20	3.10	3.06	3.10	3.12	3.18	3.15	3.08			
130	3.08	3.23	3.30	3.32	3.29	3.27	3.28	3.27	3.52	3.43	3.39	3.41	3.41	3.45	3.44	3.41			
135	3.40	3.54	3.61	3.61	3.58	3.56	3.57	3.56	3.79	3.72	3.67	3.69	3.66	3.70	3.70	3.70			
140	3.67	3.76	3.83	3.84	3.81	3.79	3.80	3.79	4.00	3.94	3.91	3.89	3.87	3.91	3.90	3.92			
145	3.85	3.92	3.99	4.01	3.98	3.96	3.96	3.94	4.14	4.09	4.06	4.05	4.01	4.06	4.04	4.07			
150	3.96	4.02	4.08	4.09	4.08	4.07	4.05	4.05	4.22	4.16	4.14	4.13	4.10	4.14	4.13	4.14			
155	4.05	4.11	4.17	4.17	4.13	4.14	4.14	4.14	4.22	4.18	4.16	4.14	4.13	4.15	4.15	4.17			
160	4.18	4.26	4.27	4.25	4.24	4.27	4.30	4.31	4.26	4.22	4.21	4.20	4.17	4.16	4.20	4.23			
165	4.43	4.44	4.44	4.48	4.51	4.55	4.58	4.59	4.46	4.41	4.36	4.35	4.33	4.34	4.33	4.38			
170	4.64	4.67	4.73	4.79	4.78	4.78	4.80	4.79	4.76	4.72	4.64	4.61	4.57	4.60	4.59	4.61			
175	4.98	5.00	5.03	5.06	5.08	5.05	5.03	5.05	5.06	5.05	4.99	4.92	4.86	4.89	4.86	4.87			
180	5.16	5.18	5.22	5.16	5.12	5.10	5.11	5.09	5.15	5.18	5.22	5.17	5.11	5.12	5.09	5.09			

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