

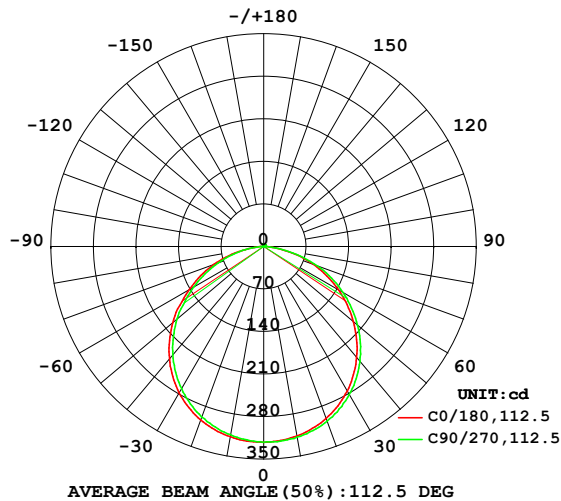
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

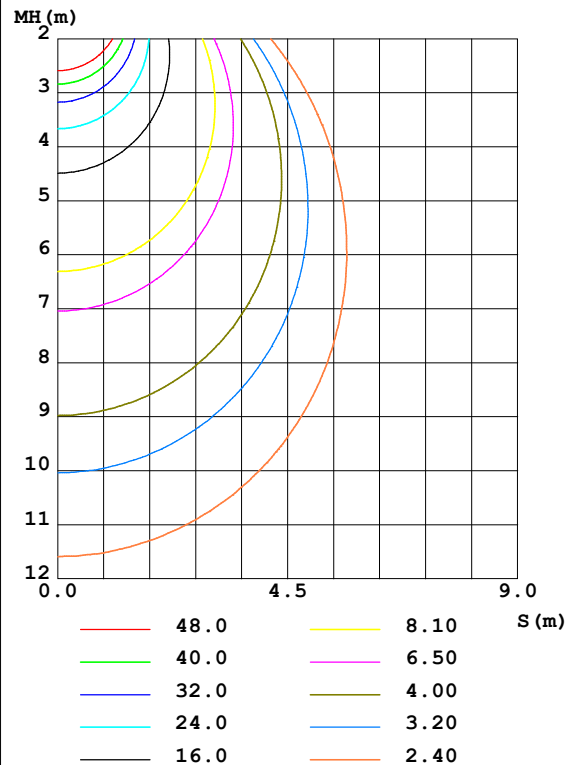
Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.48 lm/W			
MODEL	ASD-JFR-4D12AC-WH	I _{max} (cd)	323.1	S/MH (C0/180)	1.28
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	940.28	η UP, DN (C0-180)	0.9, 50.5
NOMINAL FLUX (lm)	940.285	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 47.8
LAMPS INSIDE	1	η up (%)	1.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.0	η down (%)	98.3	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: 2024-06-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	316.8	318.1	318.5	319.7	317.8	316.7	314.6	315.8	0- 10	30.53	30.53	3.25,3.25
20	301.1	304.2	305.9	307.0	303.7	301.3	298.6	298.7	10- 20	87.90	118.4	12.6,12.6
30	274.9	279.6	281.9	283.1	278.5	274.5	270.3	271.1	20- 30	134.1	252.5	26.9,26.9
40	238.2	243.6	246.8	247.6	241.5	237.1	232.9	233.0	30- 40	162.4	414.9	44.1,44.1
50	192.7	198.8	201.6	202.3	195.4	190.7	186.3	186.6	40- 50	168.2	583.2	62,62
60	141.7	146.9	150.7	150.6	141.2	136.5	132.8	133.0	50- 60	150.6	733.7	78,78
70	87.49	93.07	94.48	95.75	87.41	83.31	80.22	80.78	60- 70	113.7	847.4	90.1,90.1
80	31.01	38.04	31.93	39.55	31.20	32.73	30.82	30.82	70- 80	63.53	910.9	96.9,96.9
90	1.920	2.177	1.933	2.250	1.182	1.278	1.446	1.228	80- 90	13.61	924.5	98.3,98.3
100	2.123	2.094	2.080	2.076	1.516	1.548	1.563	1.551	90-100	1.868	926.4	98.5,98.5
110	2.372	2.338	2.327	2.311	1.891	1.918	1.943	1.930	100-110	2.085	928.5	98.7,98.7
120	2.602	2.565	2.548	2.536	2.275	2.291	2.330	2.317	110-120	2.262	930.7	99,99
130	2.790	2.764	2.747	2.733	2.630	2.644	2.677	2.663	120-130	2.300	933.0	99.2,99.2
140	3.039	3.011	2.991	2.974	2.997	3.015	3.033	3.025	130-140	2.207	935.2	99.5,99.5
150	3.339	3.306	3.279	3.272	3.356	3.370	3.391	3.373	140-150	1.989	937.2	99.7,99.7
160	3.638	3.592	3.587	3.573	3.692	3.696	3.694	3.669	150-160	1.611	938.8	99.8,99.8
170	3.899	3.850	3.853	3.828	3.963	3.923	3.932	3.907	160-170	1.065	939.9	100,100
180	4.056	4.010	4.024	4.000	4.061	4.021	4.027	4.002	170-180	0.3767	940.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

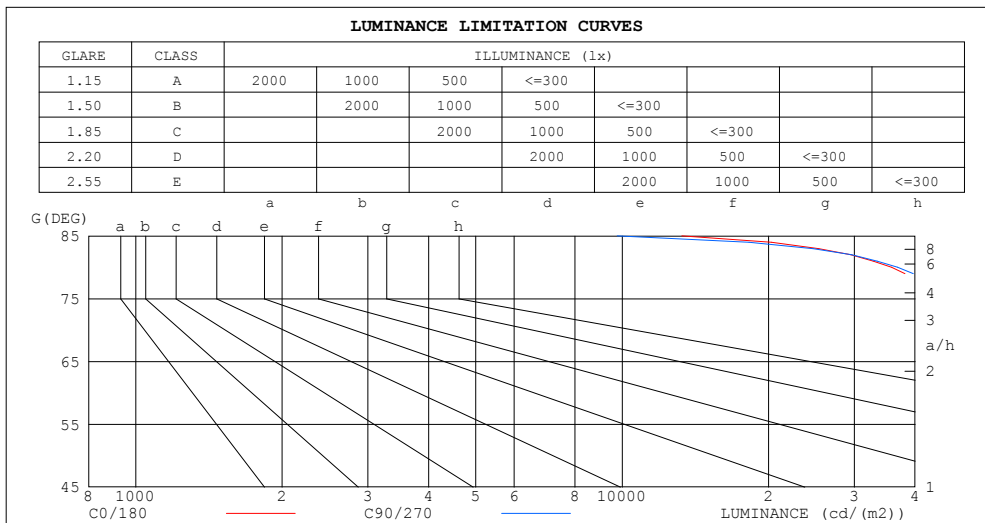
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13258	9767
80	35759	36829
75	45542	48247
70	51221	55331
65	54453	58535
60	56762	60359
55	58619	61649
50	60040	62821
45	61304	63788

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-03

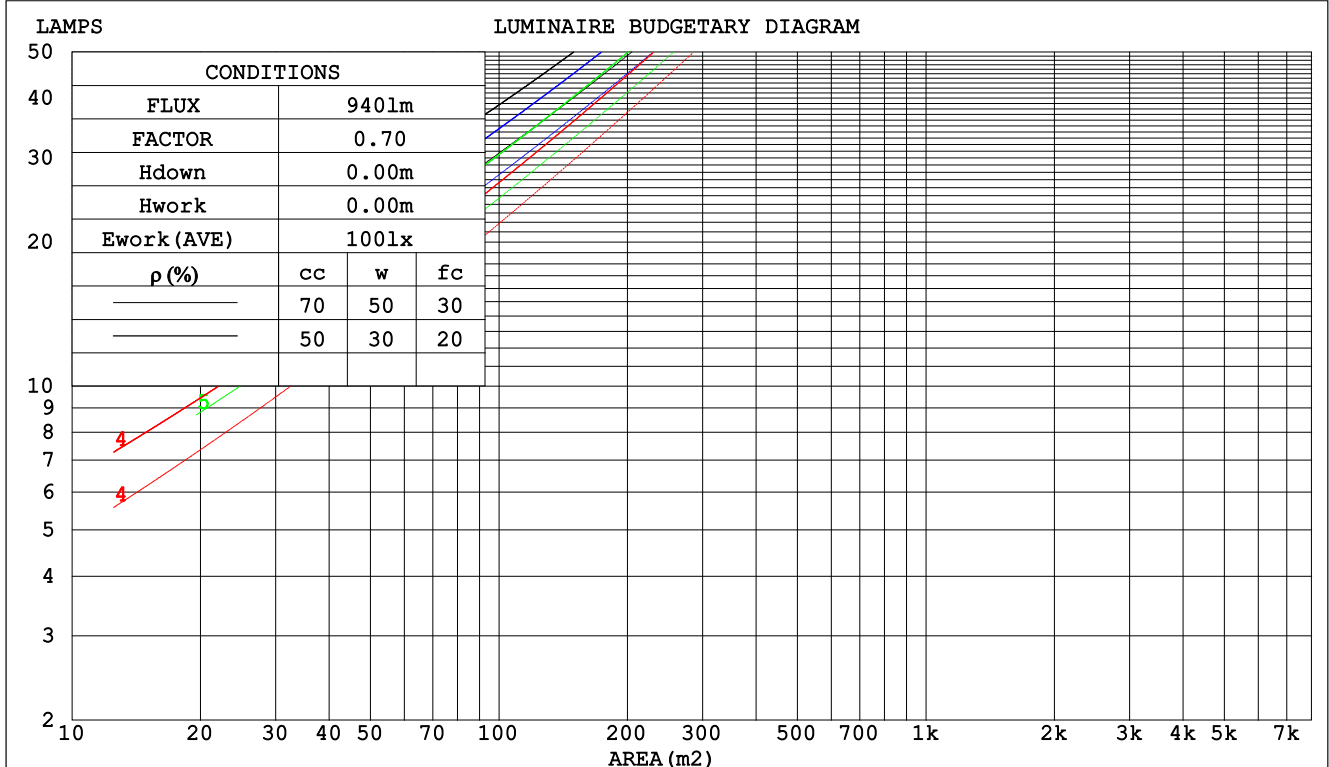
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:

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						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.04	.00	.96	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.84	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.65	.78	.70	.64	.74	.68	.63	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.45	.39	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.38	.33	.28	.26
10.0	.39	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm					
NAME: ASD-JFR-4D12AC-WH			TYPE:		WEIGHT:
SPEC.:2700K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:0.082		Shielding Angle:

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	.304	.173	.055	.297	.169	.054	.282	.162	.052	.269	.155	.050	.257	.149	.048		
2.0	.288	.158	.048	.282	.155	.048	.269	.150	.046	.257	.144	.045	.247	.140	.044		
3.0	.268	.142	.043	.262	.140	.042	.250	.136	.041	.240	.132	.040	.231	.128	.040		
4.0	.247	.129	.038	.242	.127	.037	.232	.123	.037	.223	.120	.036	.214	.116	.035		
5.0	.229	.117	.034	.224	.115	.034	.215	.112	.033	.207	.109	.033	.199	.107	.032		
6.0	.212	.107	.030	.208	.105	.030	.200	.103	.030	.193	.100	.029	.186	.098	.029		
7.0	.198	.098	.028	.194	.097	.028	.187	.095	.027	.180	.092	.027	.174	.090	.027		
8.0	.185	.090	.025	.182	.089	.025	.175	.088	.025	.169	.086	.025	.164	.084	.024		
9.0	.173	.084	.023	.170	.083	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.075	.021	.146	.073	.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	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.193	.169	.148	.165	.145	.127	.113	.100	.088	.065	.058	.051	.021	.019	.017	
2.0	.185	.145	.111	.158	.125	.096	.108	.086	.067	.063	.050	.039	.020	.016	.013	
3.0	.177	.127	.088	.152	.110	.076	.104	.076	.053	.060	.045	.031	.019	.014	.010	
4.0	.169	.114	.072	.145	.099	.062	.100	.069	.044	.058	.040	.026	.019	.013	.009	
5.0	.162	.104	.061	.139	.090	.053	.096	.063	.037	.056	.037	.022	.018	.012	.007	
6.0	.155	.095	.052	.133	.083	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
7.0	.148	.088	.047	.128	.077	.041	.088	.054	.029	.051	.032	.017	.017	.010	.006	
8.0	.142	.083	.042	.122	.072	.037	.084	.050	.026	.049	.030	.015	.016	.010	.005	
9.0	.136	.078	.039	.117	.067	.034	.081	.047	.024	.047	.028	.014	.015	.009	.005	
10.0	.130	.073	.036	.112	.064	.031	.078	.045	.022	.045	.027	.013	.015	.009	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm											
NAME: ASD-JFR-4D12AC-WH					TYPE:			WEIGHT:			
SPEC.:2700K					DIM.:			SERIAL No.:			
MFR.: ASD Lighting Corp					SUR.:0.082			Shielding Angle:			
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		27.2	28.7	27.5	29.0	29.2	27.5	28.9	27.7	29.2	29.4
	3H	28.7	30.1	29.0	30.4	30.6	29.0	30.4	29.3	30.7	30.9
	4H	29.3	30.6	29.6	30.9	31.2	29.6	30.9	29.9	31.2	31.5
	6H	29.6	30.9	30.0	31.2	31.5	29.9	31.1	30.3	31.4	31.8
	8H	29.7	30.9	30.1	31.2	31.5	30.0	31.2	30.3	31.5	31.8
	12H	29.7	30.8	30.0	31.1	31.5	29.9	31.1	30.3	31.4	31.8
4H	2H	27.9	29.2	28.2	29.5	29.8	28.0	29.4	28.4	29.6	29.9
	3H	29.6	30.7	29.9	31.0	31.4	29.8	30.9	30.2	31.3	31.6
	4H	30.2	31.3	30.6	31.6	32.0	30.5	31.5	30.9	31.9	32.3
	6H	30.7	31.6	31.1	32.0	32.4	30.9	31.9	31.4	32.2	32.6
	8H	30.8	31.7	31.2	32.1	32.5	31.0	31.9	31.5	32.3	32.7
	12H	30.8	31.6	31.3	32.0	32.5	31.0	31.8	31.5	32.2	32.7
8H	4H	30.5	31.4	31.0	31.8	32.2	30.7	31.6	31.2	32.0	32.4
	6H	31.1	31.8	31.6	32.3	32.7	31.3	32.0	31.8	32.5	32.9
	8H	31.3	31.9	31.8	32.4	32.9	31.5	32.1	32.0	32.6	33.1
	12H	31.4	31.9	31.9	32.4	32.9	31.5	32.1	32.0	32.5	33.1
12H	4H	30.5	31.3	31.0	31.7	32.2	30.7	31.5	31.2	32.0	32.4
	6H	31.2	31.8	31.7	32.3	32.8	31.4	32.0	31.9	32.5	32.9
	8H	31.4	31.9	31.9	32.4	32.9	31.6	32.1	32.1	32.6	33.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 940.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.2)
Area: 0.005 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:

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	46	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	72	65	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	92	86	82	73
3.00	102	95	90	100	93	88	95	90	86	77
4.00	106	100	96	103	98	94	99	95	91	82
5.00	108	104	100	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

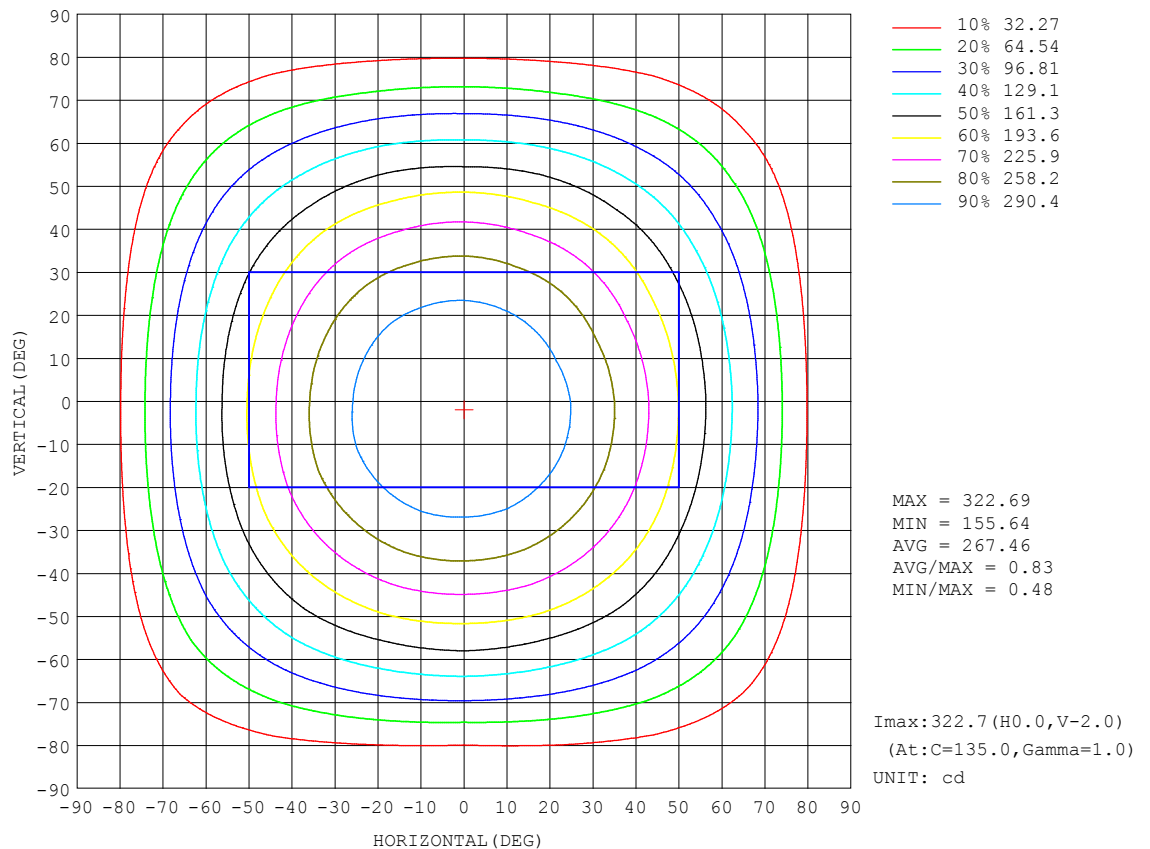
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 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:



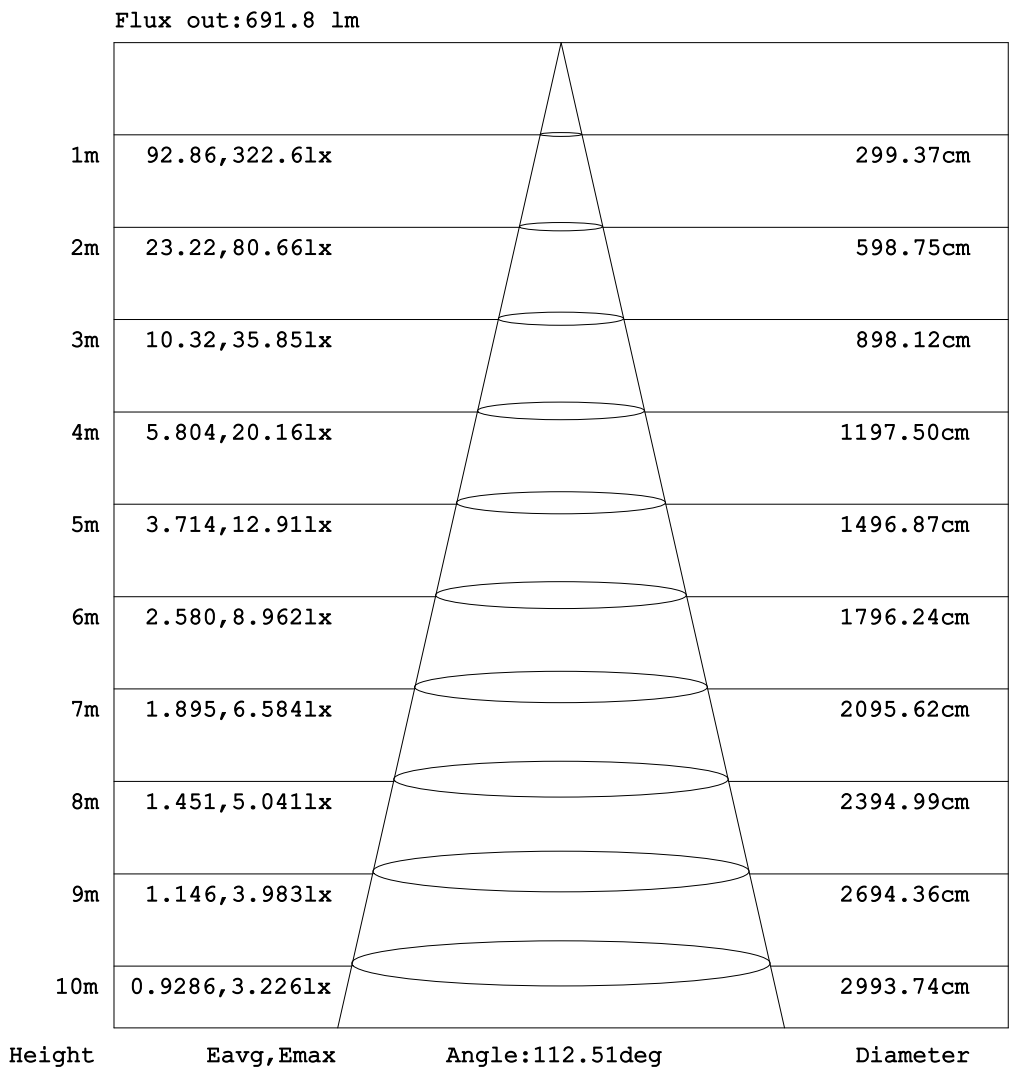
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:



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

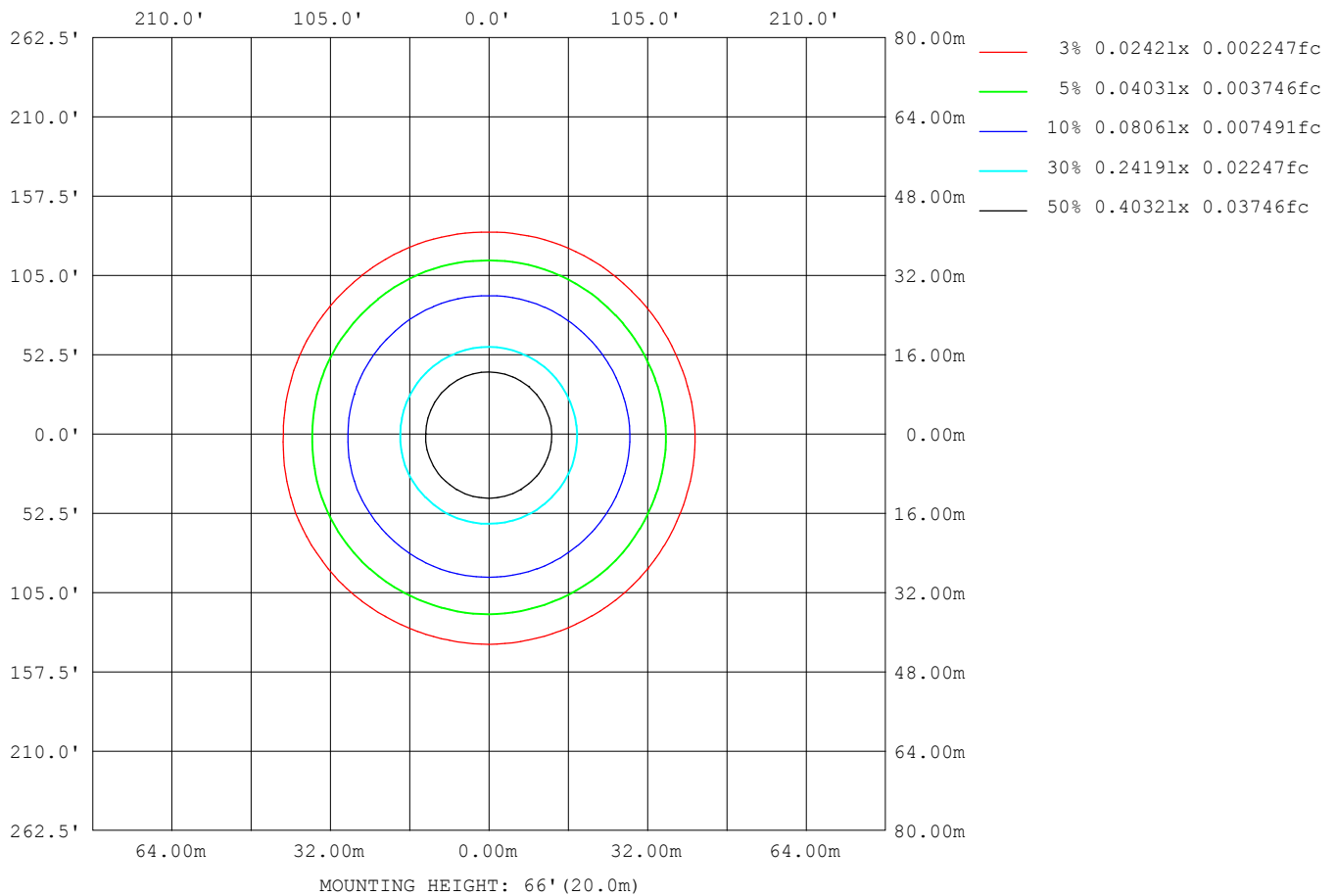
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	54269
L_0~180 (75) av	45818
L_0~180 (85) av	12081
L_90~270 (65) av	54383
L_90~270 (75) av	45351
L_90~270 (85) av	11501
L_45 (65) av	54414
L_45 (75) av	47419
L_45 (85) av	27720

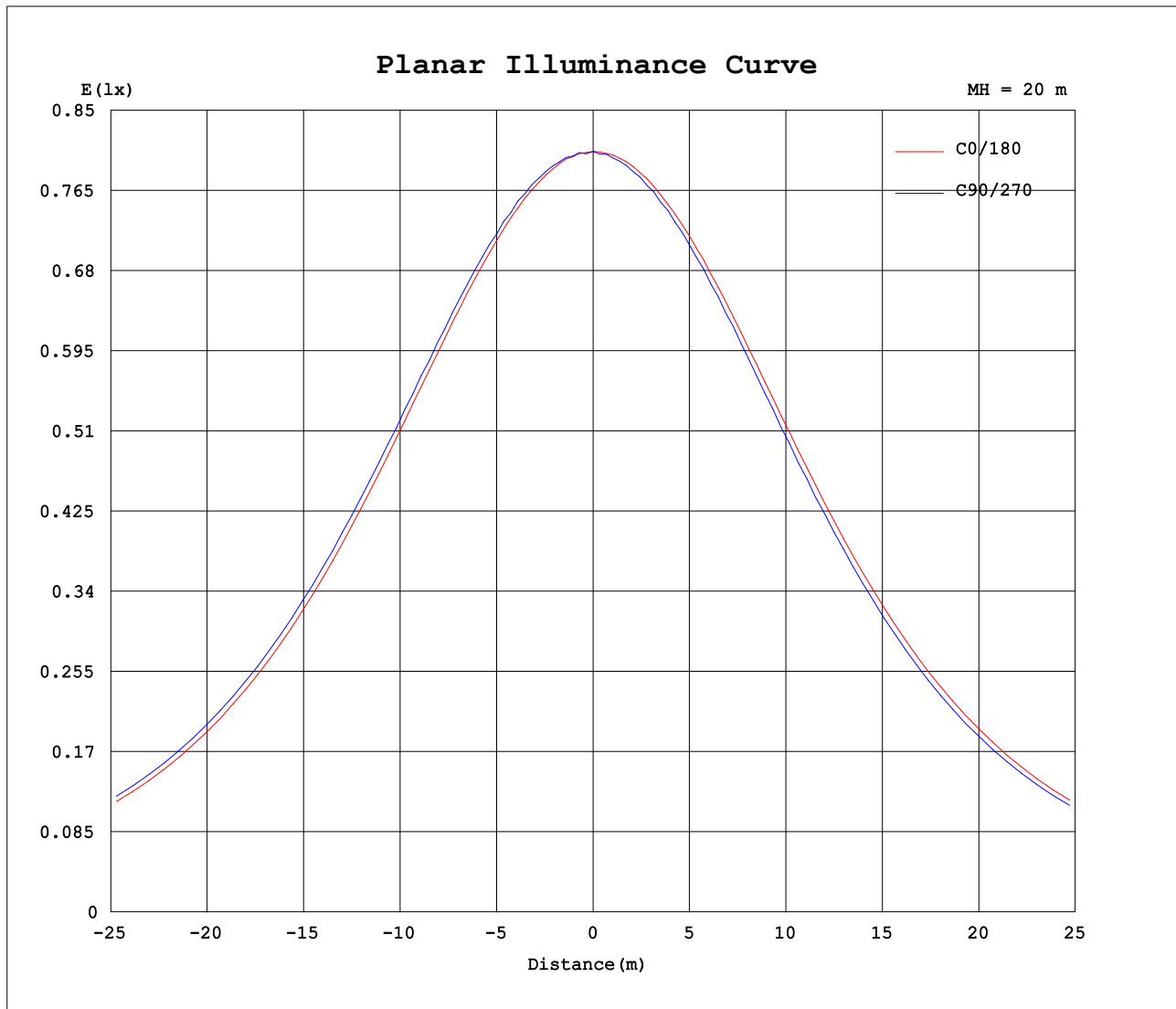
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-06-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.0940A P:11.000W PF:0.9760 Freq:60.00Hz Lamp Flux:940.285x1 lm		
NAME: ASD-JFR-4D12AC-WH	TYPE:	WEIGHT:
SPEC.:2700K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.082	Shielding Angle:

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	322	322	322	322	322	322	322	322	322	322	322	322	322	322	322	322			
5	321	321	321	322	321	322	323	322	321	321	321	321	320	320	320	320			
10	317	318	318	319	319	320	320	319	318	317	317	316	315	316	316	315			
15	310	312	313	314	314	315	315	314	312	311	311	309	308	308	308	308			
20	301	303	304	306	306	308	307	306	304	302	301	300	299	298	299	298			
25	290	291	293	295	295	297	297	296	292	291	289	288	286	286	286	286			
30	275	278	280	282	282	283	283	282	278	276	275	272	270	270	271	271			
35	258	261	263	265	266	267	266	266	261	259	257	255	253	252	253	253			
40	238	242	244	246	247	248	248	247	242	239	237	234	233	232	233	233			
45	216	220	222	225	225	227	226	225	219	216	215	212	211	210	211	211			
50	193	196	199	201	202	203	202	202	195	192	191	188	186	186	187	187			
55	168	170	173	177	177	178	177	176	169	167	163	162	158	160	159	162			
60	142	143	147	148	151	150	151	148	141	140	137	135	133	134	133	135			
65	115	117	120	121	124	123	123	121	114	113	110	109	106	107	107	109			
70	87.5	90.2	93.1	94.1	94.5	95.5	95.8	93.6	87.4	84.6	83.3	80.9	80.2	79.5	80.8	81.1			
75	58.9	63.1	65.2	64.5	62.3	65.2	67.4	66.5	59.7	58.0	57.5	55.4	55.0	54.3	55.4	54.4			
80	31.0	36.0	38.0	35.8	31.9	35.5	39.6	39.0	31.2	29.8	32.7	31.5	30.8	30.6	30.8	26.9			
85	5.77	11.7	15.7	11.7	4.25	10.5	15.9	13.9	4.76	5.49	8.37	7.16	5.77	7.64	8.36	5.07			
90	1.92	2.19	2.18	2.50	1.93	2.27	2.25	2.38	1.18	1.38	1.28	1.67	1.45	1.69	1.23	1.32			
95	2.00	2.01	1.97	1.98	1.97	1.98	1.96	2.00	1.34	1.35	1.37	1.38	1.38	1.38	1.38	1.35			
100	2.12	2.12	2.09	2.10	2.08	2.09	2.08	2.09	1.52	1.52	1.55	1.55	1.56	1.55	1.55	1.53			
105	2.24	2.25	2.22	2.22	2.20	2.21	2.19	2.21	1.70	1.70	1.73	1.73	1.75	1.74	1.74	1.70			
110	2.37	2.37	2.34	2.34	2.33	2.33	2.31	2.33	1.89	1.89	1.92	1.92	1.94	1.93	1.93	1.90			
115	2.49	2.49	2.45	2.46	2.44	2.44	2.42	2.44	2.08	2.08	2.11	2.11	2.14	2.12	2.12	2.09			
120	2.60	2.60	2.57	2.56	2.55	2.55	2.54	2.55	2.27	2.26	2.29	2.29	2.33	2.30	2.32	2.27			
125	2.70	2.70	2.66	2.67	2.64	2.65	2.63	2.65	2.45	2.44	2.46	2.46	2.50	2.48	2.49	2.45			
130	2.79	2.80	2.76	2.77	2.75	2.75	2.73	2.75	2.63	2.62	2.64	2.65	2.68	2.65	2.66	2.63			
135	2.91	2.92	2.88	2.88	2.86	2.87	2.84	2.85	2.81	2.81	2.83	2.83	2.85	2.83	2.84	2.82			
140	3.04	3.05	3.01	3.02	2.99	3.01	2.97	2.98	3.00	2.99	3.01	3.02	3.03	3.01	3.03	3.00			
145	3.19	3.20	3.16	3.15	3.13	3.15	3.12	3.13	3.18	3.17	3.20	3.20	3.22	3.19	3.20	3.18			
150	3.34	3.35	3.31	3.30	3.28	3.30	3.27	3.28	3.36	3.36	3.37	3.37	3.39	3.36	3.37	3.35			
155	3.49	3.50	3.45	3.44	3.43	3.45	3.42	3.43	3.53	3.51	3.54	3.53	3.55	3.52	3.53	3.51			
160	3.64	3.65	3.59	3.59	3.59	3.61	3.57	3.57	3.69	3.66	3.70	3.69	3.69	3.66	3.67	3.66			
165	3.77	3.78	3.73	3.73	3.72	3.75	3.71	3.71	3.84	3.79	3.82	3.82	3.82	3.79	3.80	3.80			
170	3.90	3.90	3.85	3.85	3.85	3.87	3.83	3.83	3.96	3.90	3.92	3.92	3.93	3.90	3.91	3.90			
175	4.00	3.99	3.95	3.95	3.95	3.96	3.93	3.93	4.05	3.99	4.00	4.00	4.00	3.96	3.98	3.97			
180	4.06	4.03	4.01	4.02	4.02	4.01	4.00	4.00	4.06	4.03	4.02	4.02	4.03	4.01	4.00	4.00			

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