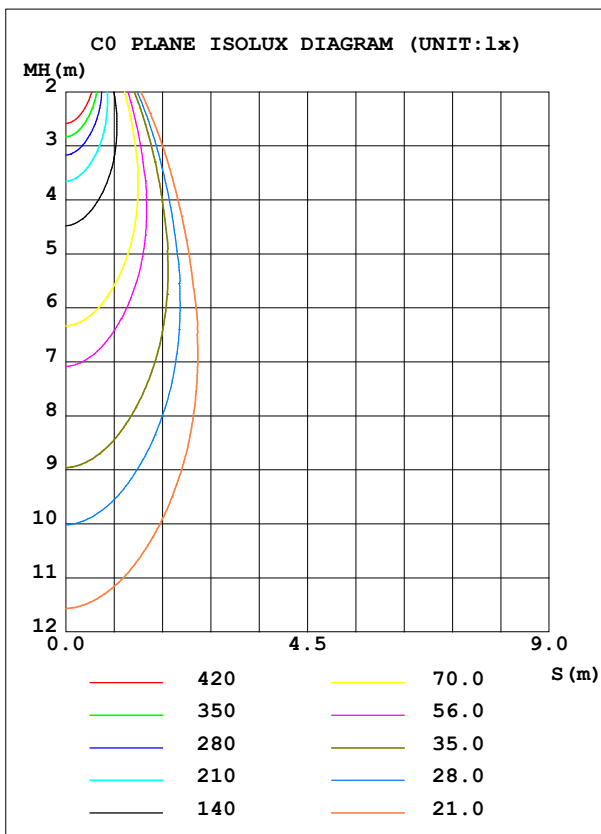
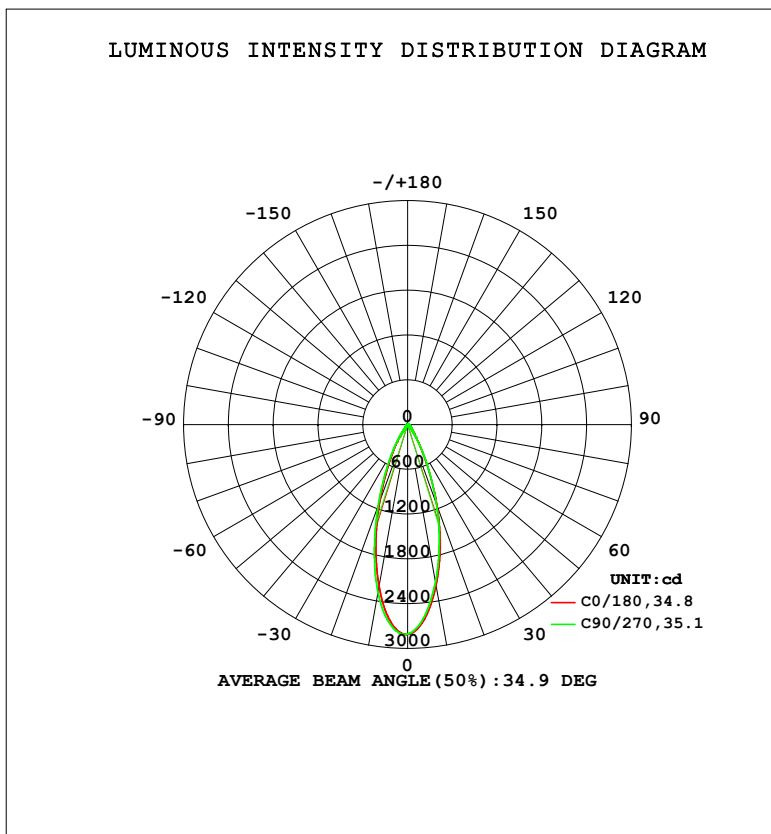


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 89.49 lm/W
MODEL	ASD-CD-TR-4D15AC-WH	I _{max} (cd)	2813	S/MH (C0/180)	0.56	
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.58	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1189.3	η UP, DN (C0-180)	0.4, 49.4	
NOMINAL FLUX (lm)	1189.31	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 49.9	
LAMPS INSIDE	1	η up (%)	0.7	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	120	η down (%)	99.3	CIBSE SHR MAX	0.60	



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.3 °C
Operators:
Test Date: 2026-01-08

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.087m [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	2194	2170	2149	2162	2204	2277	2288	2224	0- 10	237.5	237.5	20,20
20	1154	1175	1135	1094	1094	1147	1161	1120	10- 20	458.0	695.5	58.5,58.5
30	347.2	369.7	351.3	314.2	331.2	373.5	374.6	335.7	20- 30	309.5	1005	84.5,84.5
40	62.88	65.51	60.50	52.91	53.00	58.38	60.58	57.54	30- 40	101.0	1106	93,93
50	34.02	34.11	32.72	31.50	31.25	32.03	32.55	32.94	40- 50	33.10	1139	95.8,95.8
60	19.00	18.56	17.80	18.19	18.04	18.54	18.64	18.90	50- 60	22.28	1161	97.7,97.7
70	7.867	7.482	7.326	7.497	7.684	7.859	7.927	7.912	60- 70	12.53	1174	98.7,98.7
80	3.224	2.849	2.976	3.121	3.220	3.351	3.352	3.253	70- 80	5.616	1180	99.2,99.2
90	0.1050	0.1174	0.1009	0.1183	0.0924	0.0801	0.1180	0.0826	80- 90	1.395	1181	99.3,99.3
100	0.1319	0.1213	0.1311	0.1198	0.1217	0.1123	0.1205	0.1097	90-100	0.1154	1181	99.3,99.3
110	0.1873	0.1861	0.1988	0.1831	0.1827	0.1707	0.1801	0.1654	100-110	0.1569	1181	99.3,99.3
120	0.2852	0.2959	0.3094	0.2841	0.2672	0.2586	0.2672	0.2478	110-120	0.2185	1181	99.3,99.3
130	0.6825	0.7358	0.7550	0.6826	0.5853	0.5972	0.5983	0.5383	120-130	0.3682	1182	99.4,99.4
140	2.085	2.153	2.183	1.988	1.756	1.826	1.865	1.705	130-140	0.9064	1183	99.4,99.4
150	4.826	4.722	4.551	4.177	3.761	3.947	4.192	4.108	140-150	1.897	1185	99.6,99.6
160	7.484	6.405	6.105	5.668	5.428	5.445	5.808	5.951	150-160	2.439	1187	99.8,99.8
170	6.348	6.222	5.755	5.267	5.113	5.445	5.915	6.279	160-170	1.698	1189	100,100
180	5.780	6.201	5.816	5.998	5.790	6.214	5.810	6.017	170-180	0.5441	1189	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

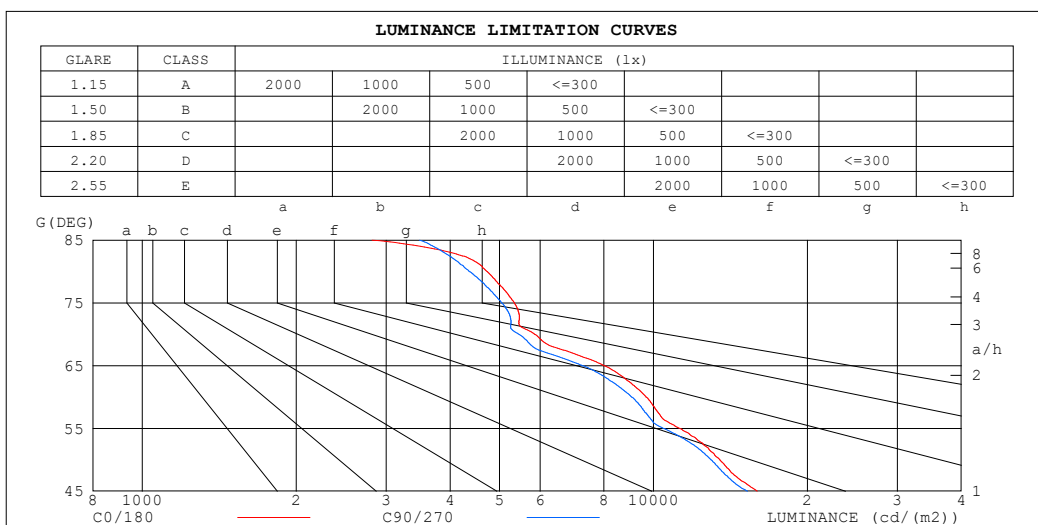
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3℃
 Operators:
 Test Date:2026-01-08

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	2958	3582
80	4785	4424
75	5383	5096
70	5907	5500
65	8090	7349
60	9737	9132
55	11354	10553
50	13537	13028
45	16063	15410

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3℃
Operators:
Test Date:2026-01-08

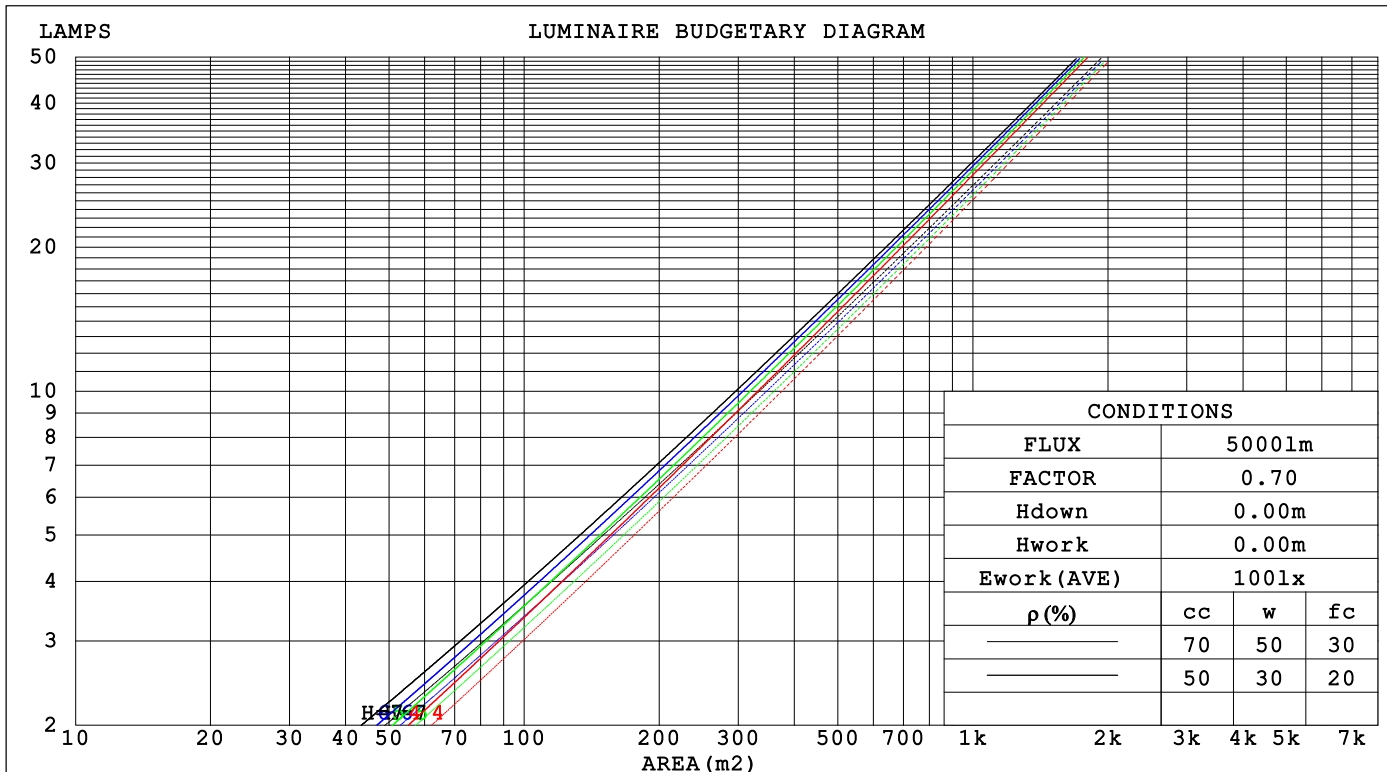
γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	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	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.99	.99	.98	.97	.96	.94
2.0	1.04	1.01	.98	1.03	.99	.97	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.99	.94	.91	.97	.93	.90	.94	.91	.88	.92	.89	.87	.90	.87	.85	.84
4.0	.93	.88	.85	.92	.88	.84	.90	.86	.83	.88	.85	.82	.86	.83	.81	.80
5.0	.89	.83	.80	.88	.83	.79	.86	.82	.78	.84	.81	.78	.83	.79	.77	.76
6.0	.84	.79	.75	.83	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
7.0	.80	.75	.72	.80	.75	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
8.0	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.67	.73	.70	.67	.66
9.0	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.71	.67	.64	.63
10.0	.71	.66	.62	.70	.66	.62	.69	.65	.62	.69	.65	.62	.68	.64	.62	.61



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3℃
 Operators:
 Test Date:2026-01-08

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	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	.165	.094	.030	.158	.090	.029	.145	.083	.027	.133	.077	.025	.122	.071	.023		
2.0	.155	.085	.026	.149	.082	.025	.139	.077	.024	.129	.072	.023	.119	.068	.021		
3.0	.146	.078	.023	.141	.076	.023	.132	.071	.022	.123	.068	.021	.116	.064	.020		
4.0	.138	.072	.021	.134	.070	.021	.126	.067	.020	.118	.064	.019	.111	.061	.018		
5.0	.130	.066	.019	.127	.065	.019	.120	.062	.018	.113	.060	.018	.107	.057	.017		
6.0	.124	.062	.018	.120	.061	.018	.114	.059	.017	.109	.057	.017	.104	.055	.016		
7.0	.118	.058	.016	.115	.057	.016	.110	.055	.016	.105	.054	.016	.100	.052	.015		
8.0	.112	.055	.015	.110	.054	.015	.105	.052	.015	.101	.051	.015	.096	.050	.014		
9.0	.107	.052	.014	.105	.051	.014	.101	.050	.014	.097	.049	.014	.093	.047	.014		
10.0	.103	.049	.014	.101	.049	.014	.097	.048	.013	.093	.046	.013	.090	.045	.013		

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	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021		
1.0	.176	.163	.151	.150	.140	.130	.103	.096	.090	.059	.056	.052	.019	.018	.017		
2.0	.159	.138	.120	.137	.119	.104	.094	.082	.072	.054	.048	.042	.017	.015	.014		
3.0	.146	.119	.097	.125	.103	.084	.086	.071	.059	.050	.042	.035	.016	.014	.011		
4.0	.135	.104	.080	.116	.090	.070	.080	.063	.049	.046	.037	.029	.015	.012	.010		
5.0	.125	.092	.068	.108	.080	.059	.074	.056	.041	.043	.033	.025	.014	.011	.008		
6.0	.117	.083	.058	.101	.071	.050	.070	.050	.036	.040	.029	.021	.013	.010	.007		
7.0	.110	.075	.050	.095	.065	.043	.066	.045	.031	.038	.027	.018	.012	.009	.006		
8.0	.104	.068	.044	.090	.059	.038	.062	.042	.027	.036	.025	.016	.012	.008	.005		
9.0	.099	.063	.039	.085	.055	.034	.059	.038	.024	.034	.023	.014	.011	.007	.005		
10.0	.094	.058	.035	.081	.051	.030	.056	.036	.021	.033	.021	.013	.011	.007	.004		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3℃
Operators:
Test Date:2026-01-08

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.3lx1 lm										
NAME: ASD-CD-TR-4D15AC-WH						TYPE:			WEIGHT:	
SPEC.: 5000K						DIM.:			SERIAL No.:	
MFR.: ASD Lighting Corp						SUR.:			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	16.3	17.1	16.5	17.3	17.5	16.1	16.9	16.3	17.0	17.2
3H	16.6	17.3	16.8	17.5	17.7	16.3	17.1	16.6	17.3	17.5
4H	16.7	17.4	17.0	17.6	17.8	16.4	17.1	16.7	17.4	17.6
6H	16.7	17.4	17.0	17.7	17.9	16.5	17.2	16.8	17.4	17.7
8H	16.8	17.4	17.1	17.7	17.9	16.5	17.1	16.8	17.4	17.7
12H	16.7	17.4	17.1	17.6	17.9	16.5	17.1	16.8	17.4	17.7
4H 2H	16.4	17.1	16.6	17.3	17.5	16.1	16.9	16.4	17.1	17.3
3H	16.7	17.4	17.1	17.6	17.9	16.5	17.1	16.8	17.4	17.7
4H	16.9	17.5	17.3	17.8	18.1	16.7	17.2	17.0	17.5	17.9
6H	17.0	17.5	17.4	17.9	18.2	16.8	17.3	17.2	17.6	18.0
8H	17.1	17.5	17.5	17.9	18.3	16.8	17.3	17.2	17.6	18.0
12H	17.1	17.5	17.5	17.9	18.3	16.8	17.3	17.2	17.6	18.0
8H 4H	16.9	17.4	17.3	17.7	18.1	16.7	17.1	17.1	17.5	17.9
6H	17.1	17.5	17.5	17.9	18.3	16.8	17.2	17.3	17.6	18.1
8H	17.1	17.5	17.6	17.9	18.4	16.9	17.2	17.4	17.7	18.1
12H	17.1	17.4	17.6	17.9	18.4	16.9	17.2	17.4	17.7	18.2
12H 4H	16.8	17.3	17.3	17.7	18.1	16.6	17.1	17.0	17.4	17.8
6H	17.1	17.4	17.5	17.8	18.3	16.8	17.2	17.3	17.6	18.0
8H	17.1	17.4	17.6	17.9	18.4	16.9	17.2	17.4	17.6	18.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.1 / - 1.1					+ 1.0 / - 1.1				
1.5H	+ 1.8 / - 0.7					+ 1.6 / - 0.7				
2.0H	+ 1.0 / - 0.7					+ 1.0 / - 0.8				

CIE Pub.117, 1189 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.6)
 Area: 0.0039262 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3℃
 Operators:
 Test Date:2026-01-08

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	109	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

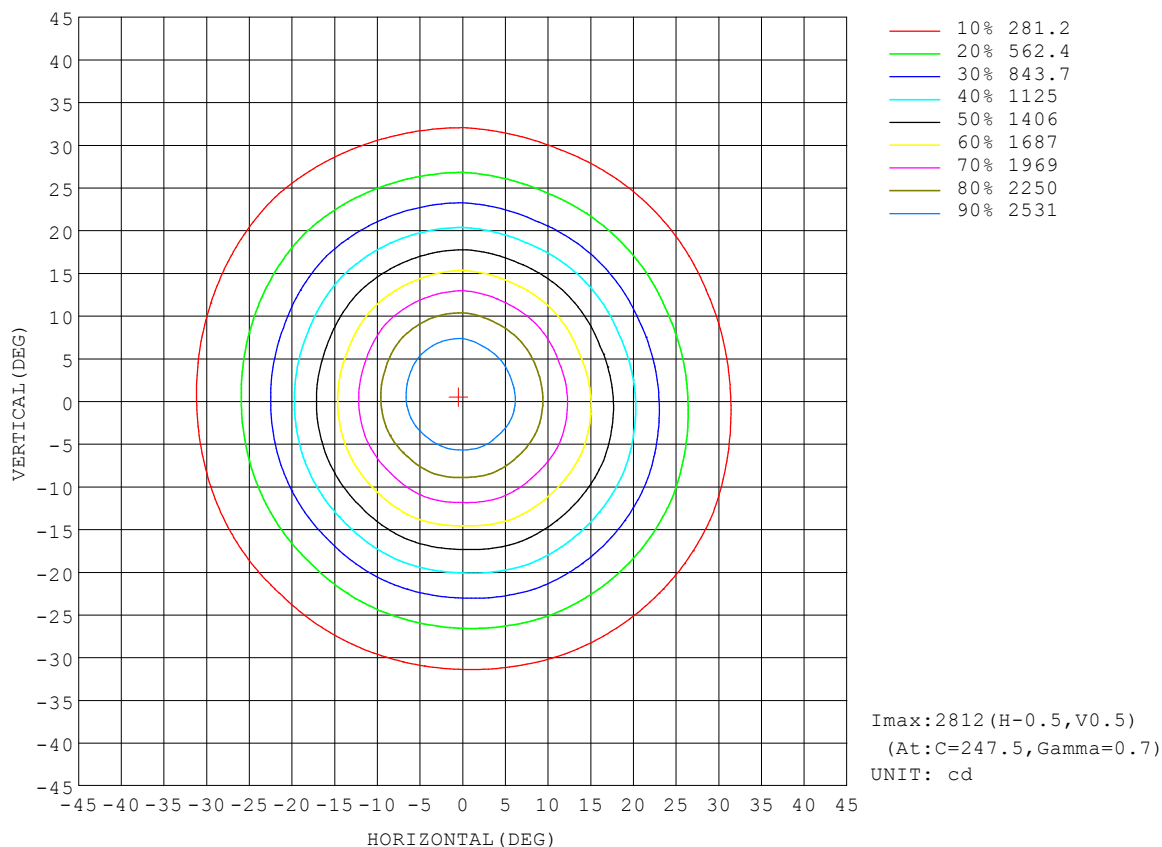
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3°C
 Operators:
 Test Date: 2026-01-08

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



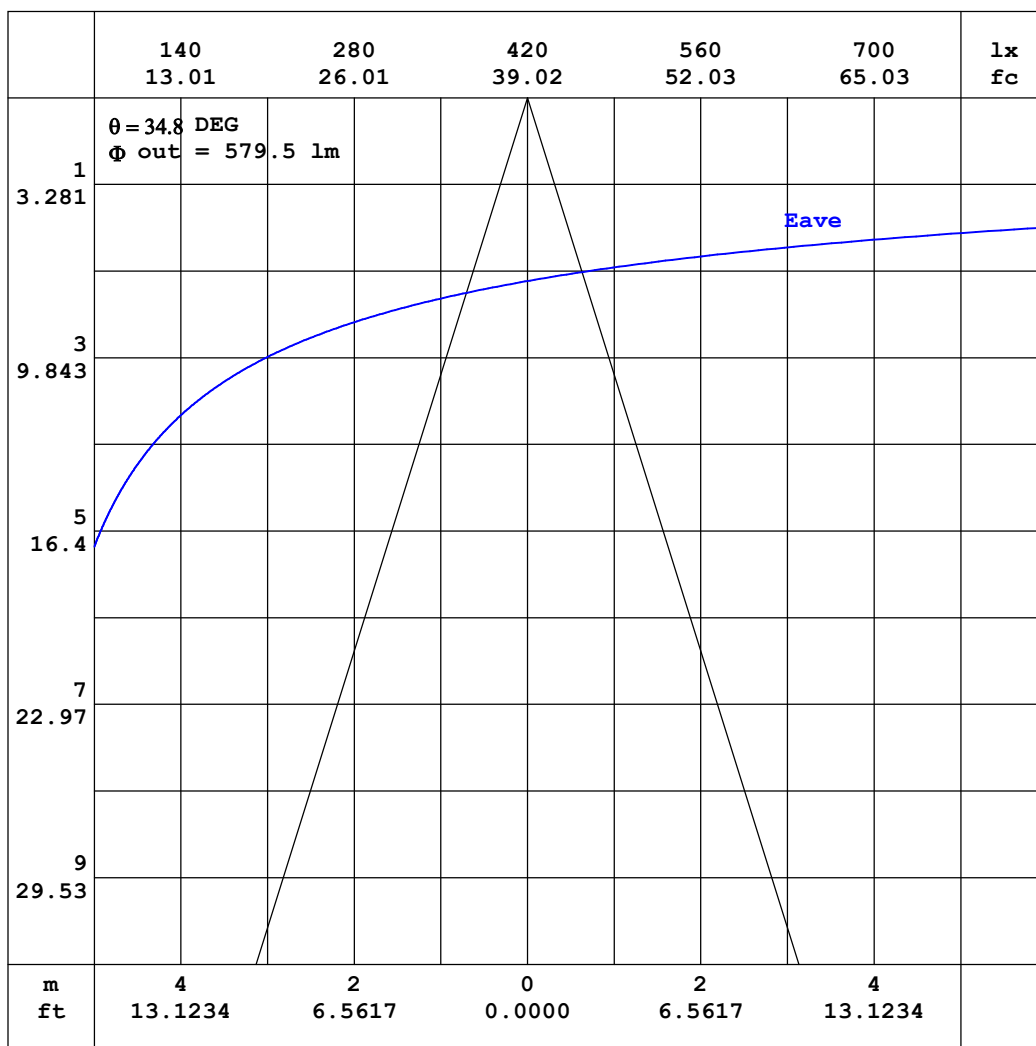
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3℃
Operators:
Test Date:2026-01-08

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI CURVES

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



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

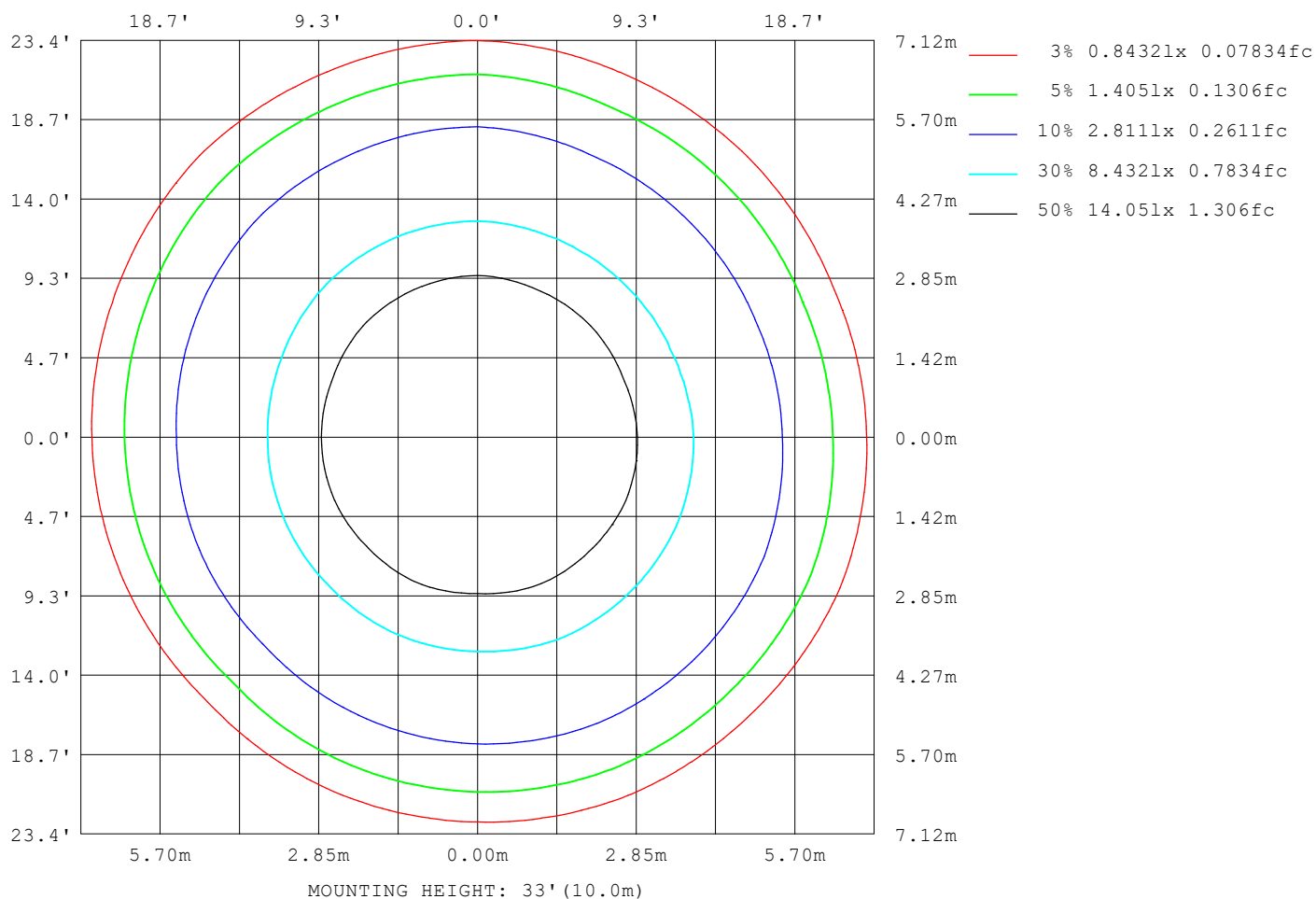
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.3°C
Operators:
Test Date: 2026-01-08

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.087m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test: U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz UTHDi: 0.00% ITHDi: 0.00% KDisp: 0 Lamp Flux: 1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3°C
 Operators:
 Test Date: 2026-01-08

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

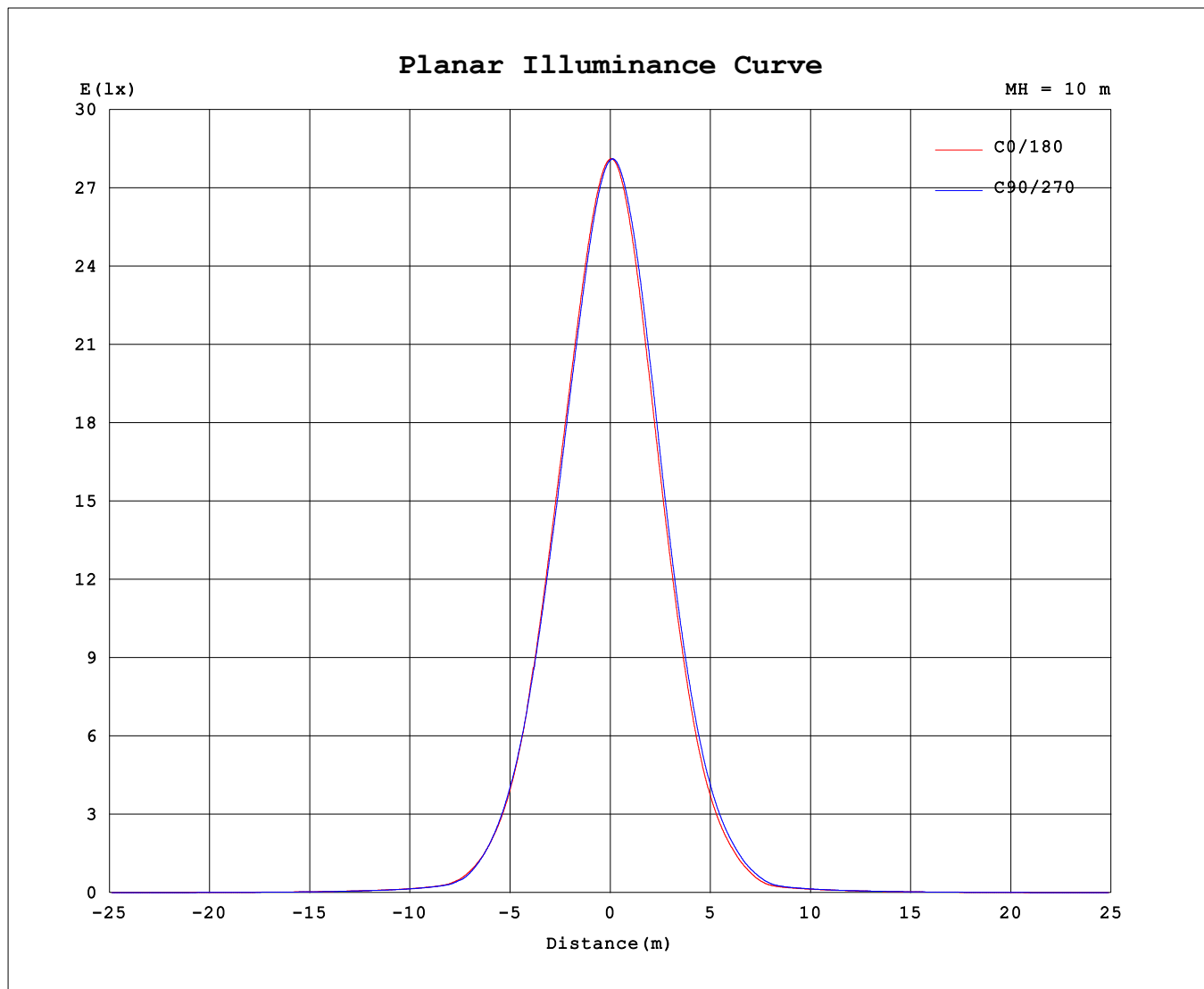
AvgL	cd/m2
L_0~180 (65) av	7707
L_0~180 (75) av	5307
L_0~180 (85) av	3029
L_90~270 (65) av	7545
L_90~270 (75) av	5225
L_90~270 (85) av	3992
L_45 (65) av	7671
L_45 (75) av	5262
L_45 (85) av	2967

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3℃
Operators:
Test Date:2026-01-08

γ Range: 0 - 180DEG
γ Interval: 0.1DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.087m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2026-01-08

γ Range: 0 - 180DEG
 γ Interval: 0.1DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.087m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.09V I:0.1126A P:13.290W PF:0.9832 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1189.31x1 lm		
NAME: ASD-CD-TR-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	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	2811	2811	2806	2809	2806	2809	2808	2806	2811	2811	2806	2809	2806	2809	2808	2806			
5	2622	2610	2593	2592	2590	2600	2607	2633	2654	2679	2702	2702	2692	2664	2645	2625			
10	2203	2198	2179	2173	2158	2176	2172	2202	2215	2240	2288	2301	2298	2257	2234	2206			
15	1703	1715	1693	1692	1653	1671	1650	1658	1658	1662	1710	1721	1735	1699	1694	1669			
20	1164	1192	1184	1187	1145	1137	1104	1108	1106	1112	1157	1166	1172	1130	1131	1122			
25	678	715	718	721	687	666	630	633	637	657	696	697	702	658	650	645			
30	352	380	376	375	357	337	319	330	336	357	379	377	380	349	340	338			
35	154	163	154	152	141	137	126	135	145	155	170	168	171	158	153	146			
40	63.5	66.0	66.1	65.9	61.0	57.1	53.3	52.5	53.5	54.7	59.0	60.3	61.3	57.8	58.1	57.8			
45	44.6	45.7	45.3	44.3	42.8	41.3	40.0	39.6	39.8	40.3	41.6	41.7	42.5	41.6	42.4	42.2			
50	34.2	34.8	34.3	33.8	32.9	32.2	31.6	31.5	31.4	31.8	32.2	32.0	32.7	32.5	33.1	33.1			
55	25.6	25.5	24.5	24.2	23.8	24.1	24.2	24.4	24.4	24.7	25.2	25.1	25.6	25.3	25.6	25.2			
60	19.1	19.1	18.6	18.1	17.9	18.1	18.3	18.2	18.1	18.4	18.6	18.5	18.7	18.7	19.0	18.8			
65	13.4	13.3	12.8	12.4	12.2	12.4	12.5	12.5	12.4	12.5	12.8	12.8	13.1	13.1	13.3	13.2			
70	7.93	7.80	7.55	7.52	7.39	7.50	7.55	7.71	7.74	7.77	7.91	7.90	7.98	7.87	7.97	7.94			
75	5.47	5.44	5.28	5.25	5.18	5.28	5.31	5.38	5.40	5.43	5.52	5.48	5.53	5.44	5.47	5.42			
80	3.26	3.17	2.90	3.02	3.02	3.11	3.16	3.23	3.26	3.29	3.39	3.35	3.39	3.30	3.29	3.23			
85	1.01	0.77	0.78	1.22	1.23	0.92	0.59	0.98	1.16	1.17	1.44	1.54	1.57	1.50	1.39	1.15			
90	0.11	0.11	0.12	0.10	0.10	0.14	0.12	0.10	0.09	0.09	0.08	0.09	0.13	0.12	0.08	0.08			
95	0.11	0.10	0.10	0.10	0.11	0.13	0.11	0.10	0.10	0.09	0.09	0.09	0.10	0.12	0.09	0.09			
100	0.13	0.13	0.12	0.12	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.12	0.13	0.11	0.11			
105	0.15	0.15	0.15	0.15	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.15	0.14	0.14			
110	0.19	0.18	0.18	0.19	0.20	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.18	0.18	0.16	0.17			
115	0.22	0.22	0.22	0.23	0.24	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.22	0.21	0.20	0.20			
120	0.28	0.28	0.29	0.29	0.31	0.29	0.28	0.28	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25			
125	0.41	0.41	0.44	0.43	0.44	0.42	0.41	0.40	0.36	0.37	0.36	0.37	0.36	0.35	0.34	0.33			
130	0.67	0.70	0.73	0.73	0.75	0.70	0.68	0.67	0.58	0.60	0.59	0.60	0.59	0.57	0.53	0.54			
135	1.20	1.22	1.27	1.27	1.30	1.20	1.17	1.17	1.01	1.05	1.05	1.07	1.06	1.01	0.95	0.95			
140	2.06	2.09	2.13	2.12	2.16	2.01	1.97	2.00	1.74	1.81	1.81	1.86	1.84	1.78	1.69	1.71			
145	3.29	3.31	3.31	3.26	3.32	3.09	2.99	3.10	2.74	2.82	2.80	2.92	2.98	2.87	2.77	2.83			
150	4.80	4.79	4.70	4.49	4.53	4.24	4.15	4.24	3.74	3.83	3.92	4.05	4.17	4.07	4.08	4.24			
155	6.41	6.32	5.91	5.53	5.54	5.14	5.13	5.33	4.82	4.93	4.92	4.97	5.18	5.14	5.30	5.77			
160	7.48	7.18	6.40	6.15	6.10	5.60	5.66	5.79	5.43	5.54	5.44	5.50	5.80	5.92	5.95	6.62			
165	7.26	6.97	6.32	6.14	5.82	5.63	5.58	5.61	5.35	5.52	5.55	5.68	5.79	6.08	6.12	6.58			
170	6.37	6.19	6.22	6.03	5.76	5.58	5.27	4.93	5.12	5.06	5.45	5.92	5.92	6.12	6.27	5.98			
175	5.99	6.19	6.14	5.69	5.50	5.43	5.42	4.99	4.93	5.04	5.63	5.76	5.71	5.77	6.11	5.93			
180	5.80	5.79	6.22	5.86	5.82	5.72	6.00	5.55	5.77	5.76	6.20	5.85	5.81	5.73	6.02	5.58			

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