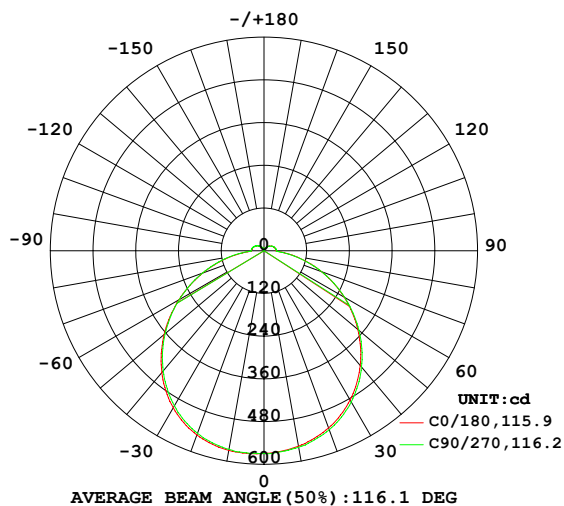


LUMINAIRE PHOTOMETRIC TEST REPORT

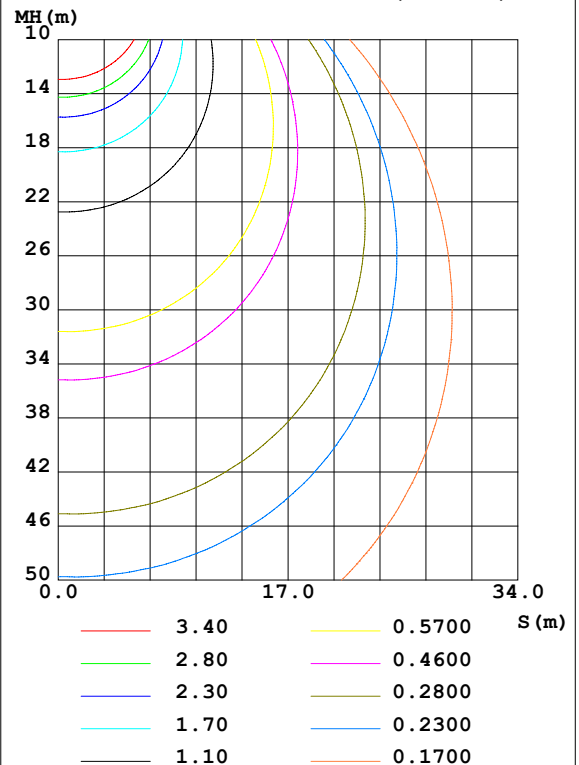
Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.80 lm/W			
MODE:ASD-LFMFD-15D23CC-XX/YY		I _{max} (cd)	572.5	S/MH (C0/180)	1.26
NOMINAL POWER (W)	23	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1901.0	η UP, DN (C0-180)	4.0, 46.8
NOMINAL FLUX (lm)	1900.96	CIE CLASS	DIRECT	η UP, DN (C180-360)	3.9, 45.3
LAMPS INSIDE	1	η up (%)	7.9	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	92.1	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: 10.0deg/s
 Temperature: 24.8DEG
 Operators: Ben
 Test Date: 2020-08-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 35%
 Test Distance: 2.490m [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	569.5	569.6	566.8	561.1	557.6	556.5	560.6	565.0	0- 10	54.07	54.07	2.84, 2.84
20	550.7	551.4	546.0	536.6	529.9	528.7	535.3	543.6	10- 20	156.5	210.5	11.1, 11.1
30	509.6	509.9	503.3	492.5	484.2	482.7	490.3	500.9	20- 30	240.2	450.7	23.7, 23.7
40	446.5	446.8	440.7	429.4	420.6	419.1	426.3	437.1	30- 40	292.2	742.9	39.1, 39.1
50	366.3	367.6	362.6	352.7	344.3	341.9	348.2	357.6	40- 50	305.2	1048	55.1, 55.1
60	276.0	278.4	275.0	267.6	259.6	256.9	261.5	268.7	50- 60	279.2	1327	69.8, 69.8
70	183.2	185.7	184.4	179.5	172.5	169.6	172.4	177.3	60- 70	220.7	1548	81.4, 81.4
80	94.24	96.85	96.99	94.12	88.15	85.49	86.41	89.15	70- 80	141.5	1689	88.9, 88.9
90	35.16	35.70	35.85	35.65	34.15	34.06	34.91	34.86	80- 90	61.13	1751	92.1, 92.1
100	34.04	34.65	34.73	34.49	32.98	32.90	33.72	33.60	90-100	37.85	1788	94.1, 94.1
110	31.09	31.83	31.84	31.52	30.16	30.13	30.77	30.61	100-110	34.50	1823	95.9, 95.9
120	26.69	27.09	27.19	26.96	25.89	25.64	26.06	26.15	110-120	28.64	1852	97.4, 97.4
130	21.38	21.62	21.73	21.52	20.71	20.39	20.59	20.83	120-130	21.41	1873	98.5, 98.5
140	15.71	16.06	16.17	16.00	15.34	14.66	14.65	15.20	130-140	14.22	1887	99.3, 99.3
150	10.77	11.01	11.23	11.25	10.46	9.583	9.828	10.15	140-150	8.221	1895	99.7, 99.7
160	6.717	6.348	7.046	7.080	6.182	6.023	5.287	5.902	150-160	3.967	1899	99.9, 99.9
170	3.296	2.952	3.597	3.222	3.106	2.945	2.183	2.642	160-170	1.348	1901	100, 100
180	0.6809	0.9137	0.9006	0.9015	0.9158	0.9171	0.9160	0.9046	170-180	0.1989	1901	100, 100
DEG	LUMINOUS INTENSITY:cd Less than 25% Percent = 10.3 %									UNIT:lm		

Conical surface Flux(90deg): 896.44 lm

%lum = 47.2%

%lamp = 47.2%

Conical surface Flux(120deg): 1327.3 lm

%lum = 69.8%

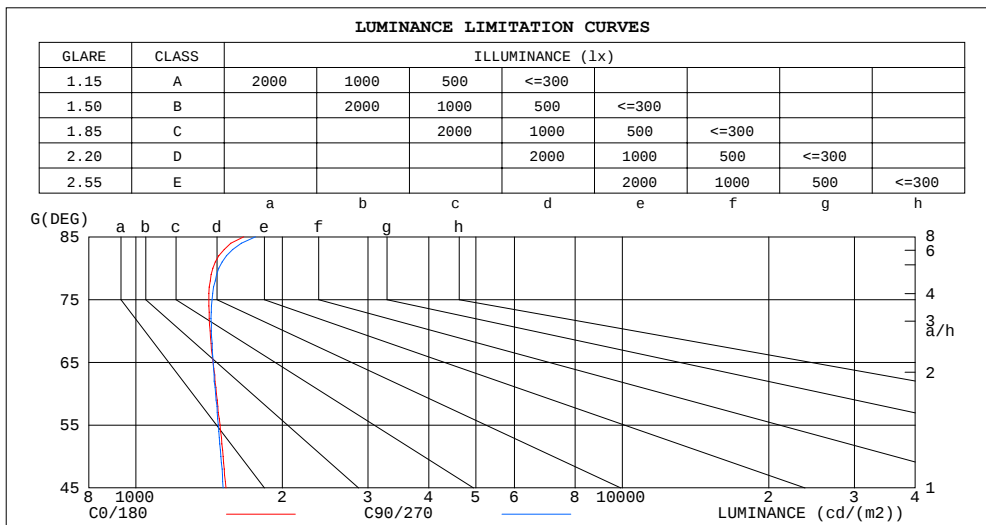
%lamp = 69.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature: 24.8DEG
 Operators: Ben
 Test Date: 2020-08-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 35%
 Test Distance: 2.490m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1666	1761
80	1440	1481
75	1413	1434
70	1421	1429
65	1440	1442
60	1464	1459
55	1489	1478
50	1512	1496
45	1532	1512

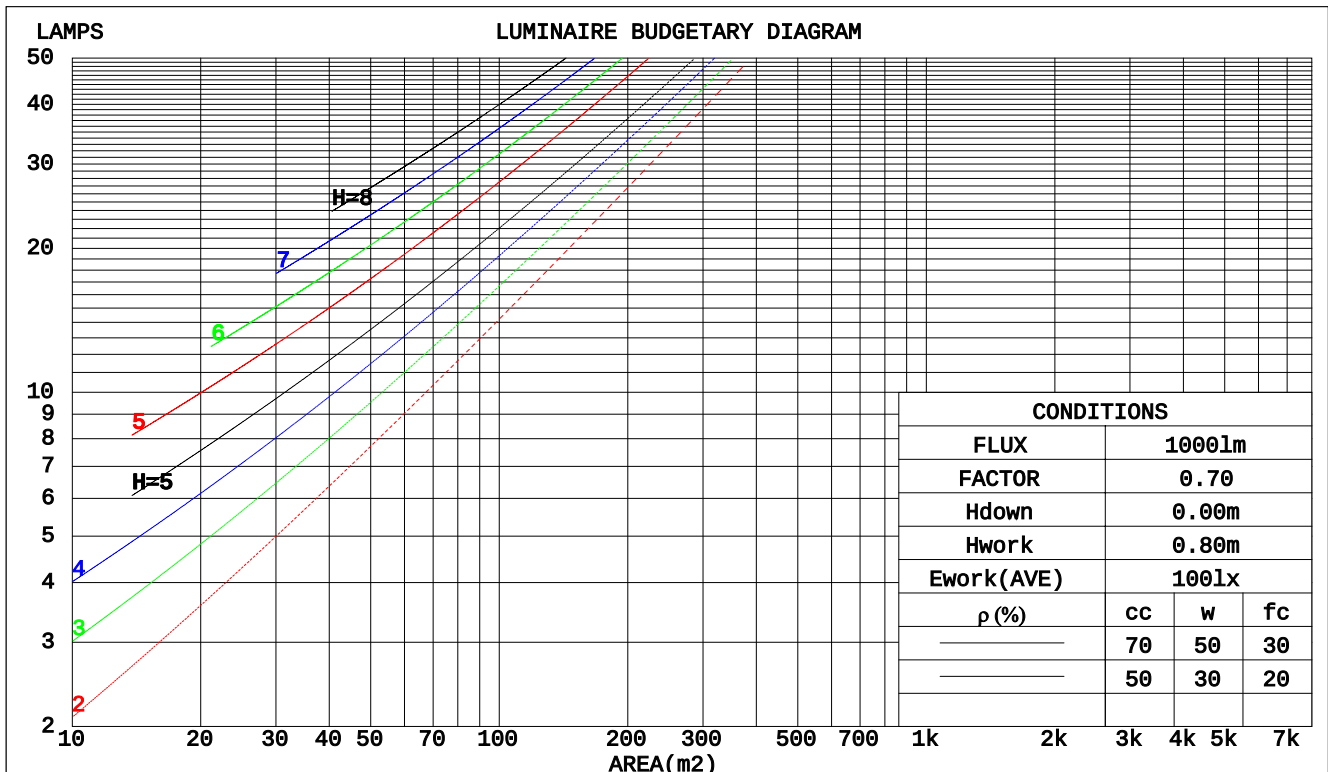
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-08-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.01	.97	.92	.98	.94	.90	.92	.89	.86	.87	.84	.82	.82	.80	.78	.75
2.0	.88	.81	.75	.85	.79	.73	.80	.75	.70	.76	.71	.67	.72	.68	.65	.62
3.0	.77	.68	.62	.74	.67	.61	.70	.64	.58	.67	.61	.56	.63	.58	.55	.52
4.0	.68	.59	.52	.66	.58	.51	.62	.55	.50	.59	.53	.48	.56	.51	.47	.44
5.0	.60	.51	.45	.59	.50	.44	.56	.48	.43	.53	.47	.42	.50	.45	.40	.38
6.0	.54	.45	.39	.53	.44	.38	.50	.43	.37	.48	.41	.36	.46	.40	.35	.33
7.0	.49	.40	.34	.48	.40	.34	.46	.38	.33	.43	.37	.32	.41	.36	.31	.29
8.0	.45	.36	.30	.44	.36	.30	.42	.34	.29	.40	.33	.29	.38	.32	.28	.26
9.0	.41	.33	.27	.40	.32	.27	.38	.31	.26	.37	.30	.26	.35	.29	.25	.23
10.0	.38	.30	.25	.37	.29	.24	.35	.29	.24	.34	.28	.23	.33	.27	.23	.21



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature:24.8DEG
 Operators:Ben
 Test Date:2020-08-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.490m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm					
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K			TYPE:N/A		WEIGHT:N/A
SPEC.:			DIM.: N/A		SERIAL No.:N/A
MFR.: ASD Lighting corp			SUR.:N/A		Shielding Angle:N/A

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.327	.186	.059	.318	.181	.058	.300	.172	.055	.283	.163	.052	.268	.155	.050	
2.0	.300	.165	.051	.292	.161	.050	.276	.153	.048	.261	.147	.046	.248	.140	.044	
3.0	.275	.146	.044	.267	.143	.043	.253	.137	.042	.240	.131	.040	.228	.126	.039	
4.0	.252	.131	.039	.245	.128	.038	.232	.123	.037	.221	.118	.036	.209	.114	.035	
5.0	.232	.118	.034	.226	.116	.034	.214	.112	.033	.204	.107	.032	.194	.103	.031	
6.0	.215	.108	.031	.209	.106	.030	.199	.102	.030	.189	.098	.029	.180	.095	.028	
7.0	.199	.099	.028	.194	.097	.028	.185	.093	.027	.176	.090	.026	.168	.087	.026	
8.0	.186	.091	.026	.181	.089	.025	.173	.086	.025	.165	.083	.024	.157	.081	.023	
9.0	.174	.084	.023	.170	.083	.023	.162	.080	.023	.155	.077	.022	.148	.075	.022	
10.0	.163	.078	.022	.160	.077	.021	.152	.075	.021	.146	.072	.021	.139	.070	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.251	.251	.251	.214	.214	.214	.146	.146	.146	.084	.084	.084	.027	.027	.027	
1.0	.242	.217	.194	.207	.186	.167	.142	.128	.115	.082	.074	.067	.026	.024	.022	
2.0	.235	.193	.158	.201	.166	.137	.138	.115	.095	.079	.067	.056	.025	.022	.018	
3.0	.227	.176	.135	.195	.152	.117	.134	.105	.082	.077	.062	.048	.025	.020	.016	
4.0	.219	.163	.120	.188	.141	.104	.129	.098	.073	.075	.057	.043	.024	.019	.014	
5.0	.212	.153	.109	.182	.132	.095	.125	.092	.067	.073	.054	.040	.023	.018	.013	
6.0	.205	.144	.101	.176	.125	.088	.121	.088	.062	.070	.052	.037	.023	.017	.012	
7.0	.198	.138	.095	.170	.119	.083	.118	.084	.059	.068	.049	.035	.022	.016	.012	
8.0	.191	.132	.091	.165	.114	.079	.114	.080	.056	.066	.047	.034	.021	.016	.011	
9.0	.185	.127	.088	.160	.110	.077	.111	.078	.054	.064	.046	.032	.021	.015	.011	
10.0	.180	.123	.085	.155	.107	.074	.107	.075	.053	.063	.044	.031	.020	.015	.010	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-08-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm											
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K					TYPE:N/A			WEIGHT:N/A			
SPEC.:					DIM.: N/A			SERIAL No.:N/A			
MFR.: ASD Lighting corp					SUR.:N/A			Shielding Angle:N/A			
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	3H	13.9	15.4	14.3	15.7	16.1	13.9	15.3	14.3	15.7	16.0
	4H	15.6	16.9	16.0	17.3	17.7	15.6	16.9	16.0	17.3	17.7
	6H	16.3	17.6	16.7	18.0	18.4	16.3	17.6	16.7	18.0	18.4
	8H	16.9	18.1	17.4	18.5	19.0	17.0	18.1	17.4	18.6	19.0
	12H	17.2	18.3	17.6	18.7	19.2	17.2	18.4	17.7	18.8	19.3
		17.4	18.5	17.9	18.9	19.4	17.5	18.6	18.0	19.0	19.5
4H 2H	3H	14.6	15.8	15.0	16.2	16.6	14.5	15.8	15.0	16.2	16.6
	4H	16.4	17.5	16.9	17.9	18.4	16.4	17.5	16.9	17.9	18.4
	6H	17.3	18.3	17.8	18.7	19.2	17.3	18.3	17.8	18.8	19.3
	8H	18.0	18.9	18.6	19.4	20.0	18.1	19.0	18.6	19.5	20.0
	12H	18.4	19.2	18.9	19.7	20.3	18.4	19.3	19.0	19.8	20.3
		18.7	19.4	19.2	20.0	20.5	18.8	19.5	19.3	20.0	20.6
8H 4H	6H	17.6	18.4	18.1	18.9	19.5	17.6	18.4	18.1	19.0	19.5
	8H	18.6	19.3	19.1	19.8	20.4	18.6	19.3	19.2	19.8	20.4
	12H	19.0	19.6	19.6	20.2	20.8	19.1	19.7	19.7	20.3	20.9
		19.5	20.0	20.0	20.6	21.2	19.5	20.1	20.1	20.7	21.3
12H 4H	6H	17.6	18.4	18.2	18.9	19.5	17.6	18.4	18.2	18.9	19.5
	8H	18.7	19.3	19.2	19.8	20.5	18.7	19.3	19.3	19.9	20.5
		19.2	19.7	19.8	20.3	20.9	19.2	19.8	19.8	20.4	21.0
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 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117 Corrected 1901 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.2)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-08-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

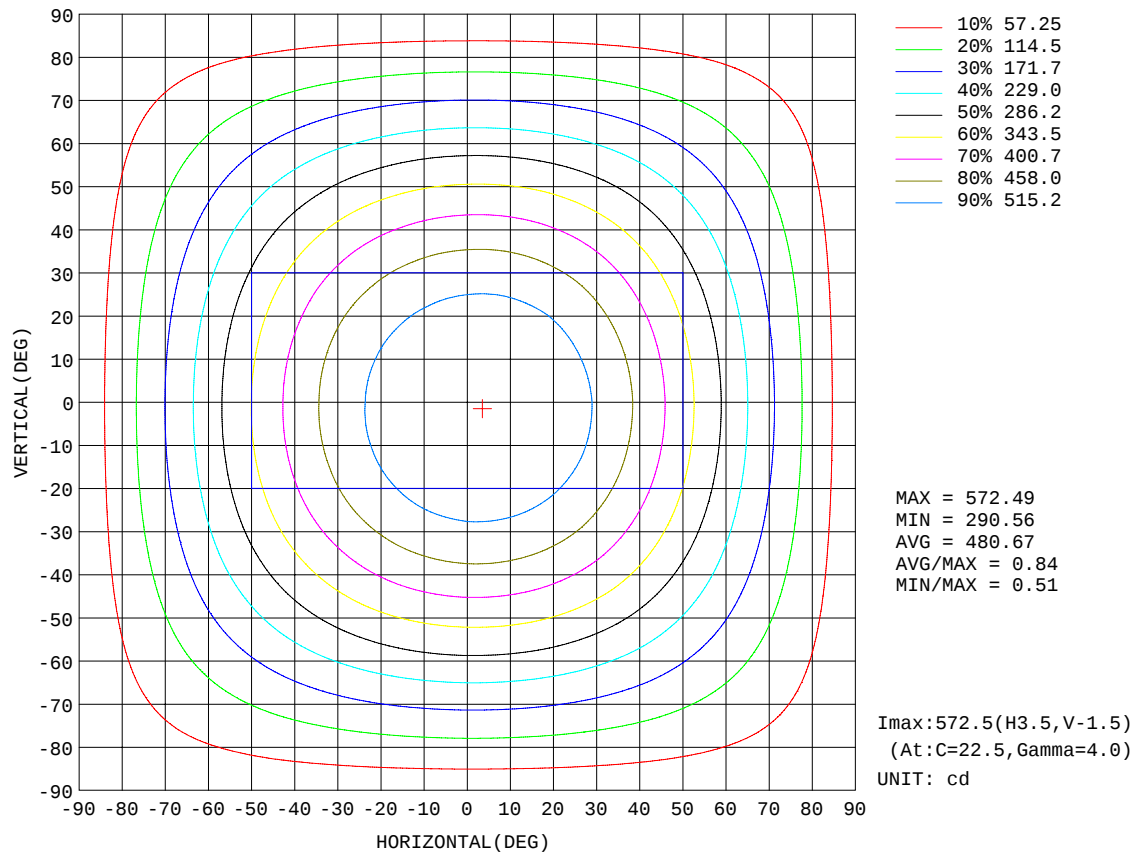
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	60	50	43	36
1.00	72	60	53	70	60	52	68	60	51	44
1.25	79	68	60	77	67	60	74	65	59	50
1.50	84	73	66	82	72	65	78	70	64	55
2.00	91	82	75	89	80	74	84	77	72	62
2.50	95	87	80	93	85	79	88	81	76	66
3.00	99	91	85	96	89	83	91	85	80	70
4.00	103	97	91	100	94	89	94	90	86	75
5.00	105	100	95	102	97	93	97	93	89	77
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: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-08-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



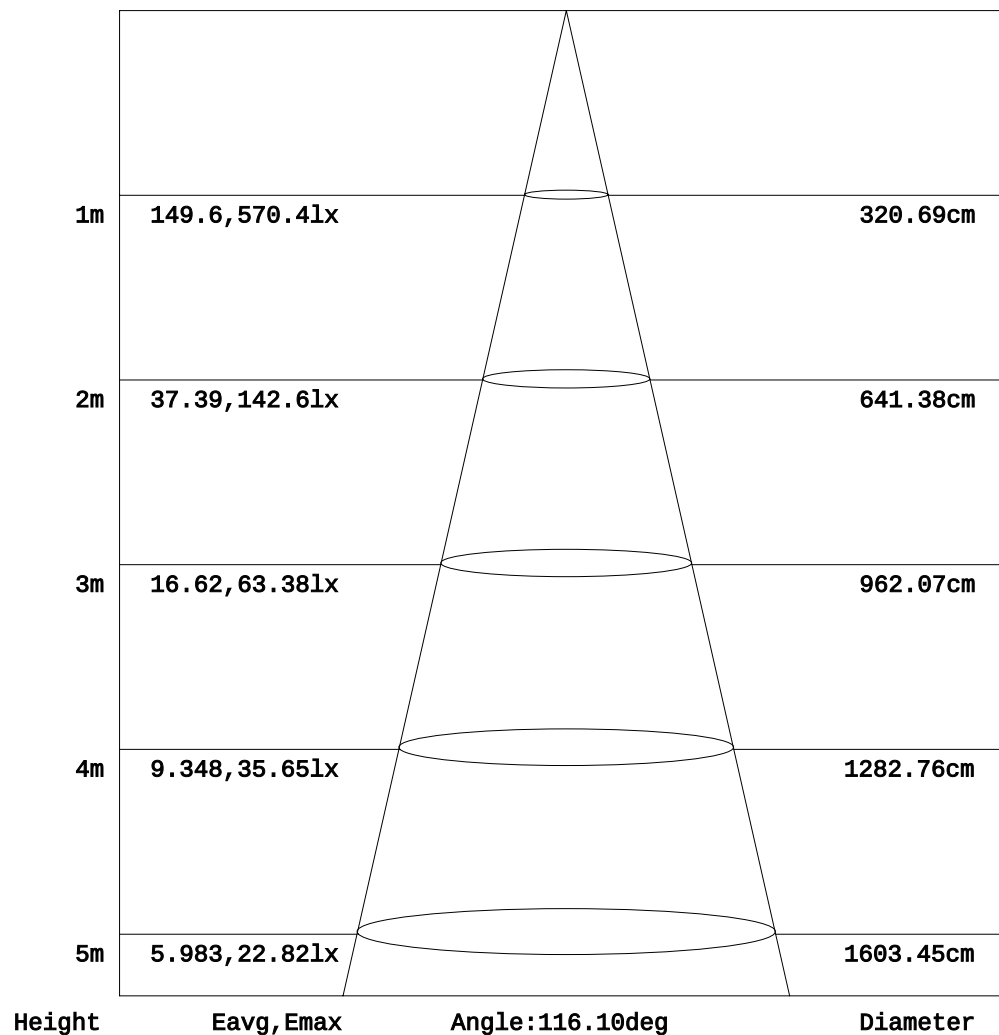
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-08-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

Flux out:1302 lm



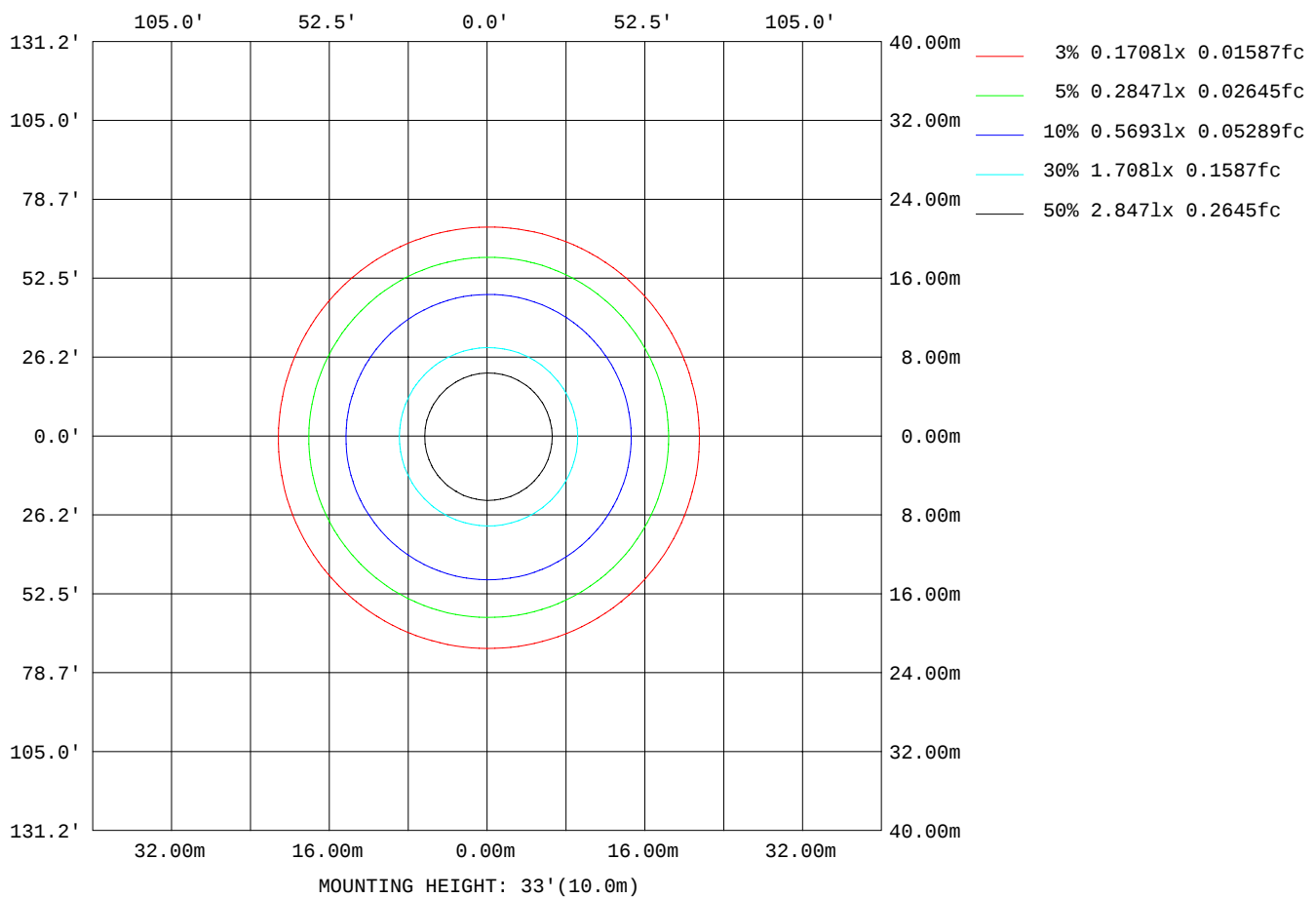
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature: 24.8DEG
 Operators: Ben
 Test Date: 2020-08-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 35%
 Test Distance: 2.490m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-08-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

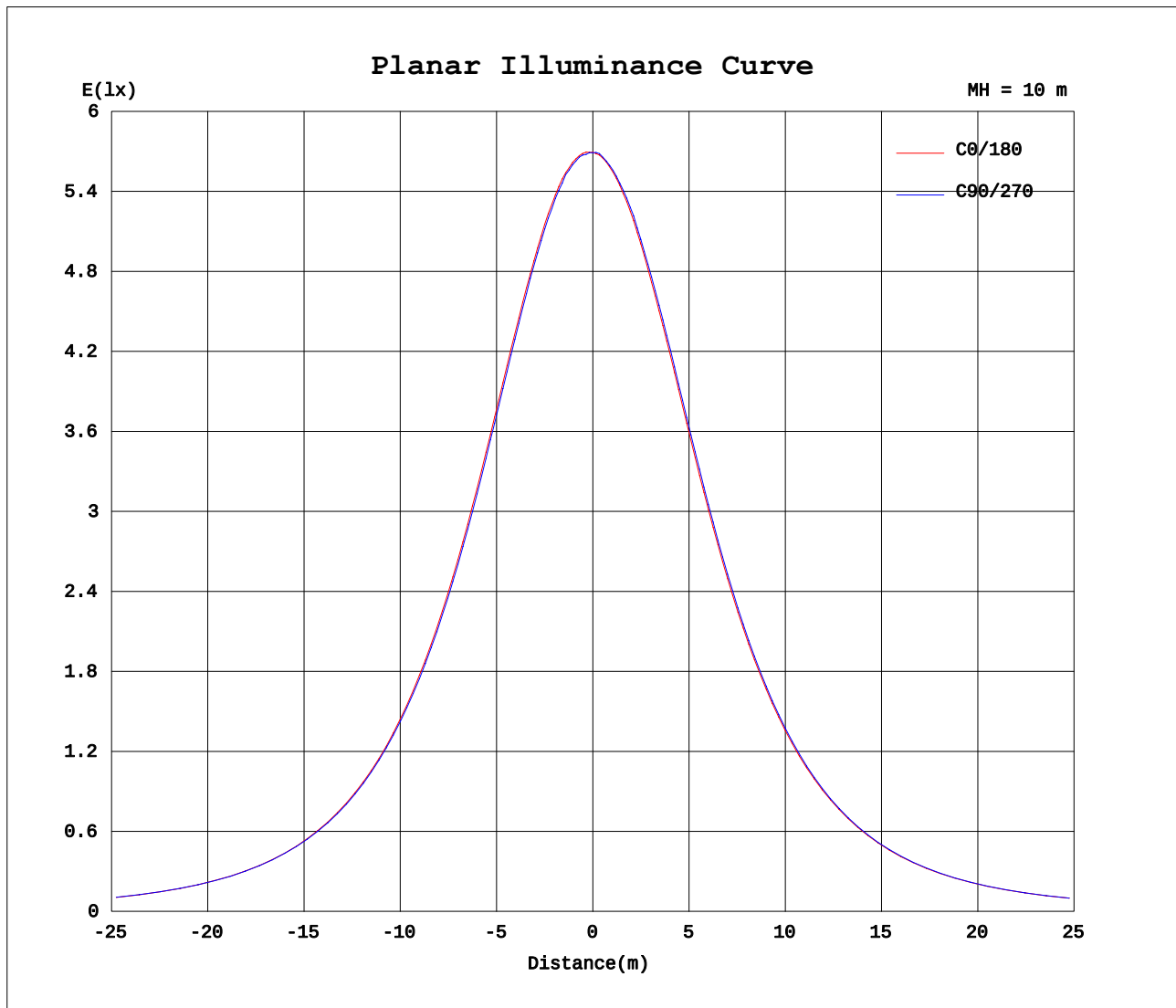
AvgL	cd/m2
L_0~180 (65) av	1399
L_0~180 (75) av	1369
L_0~180 (85) av	1606
L_90~270 (65) av	1403
L_90~270 (75) av	1373
L_90~270 (85) av	1623
L_45 (65) av	1401
L_45 (75) av	1371
L_45 (85) av	1616

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature:24.8DEG
 Operators:Ben
 Test Date:2020-08-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.490m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature: 24.8DEG
Operators: Ben
Test Date: 2020-08-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 35%
Test Distance: 2.490m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.2251A P:25.08W PF:0.9282 Lamp Flux:1900.96x1 lm		
NAME: ASD-LFMFD-15D23CC-XX/YY 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	570	570	570	570	570	570	570	570	570	570	570	570	570	570	570	570			
5	571	571	571	571	570	568	567	566	565	565	565	565	566	567	569	570			
10	570	570	570	568	567	563	561	560	558	557	557	558	561	562	565	568			
15	563	564	564	562	559	555	551	548	546	545	544	547	550	553	556	560			
20	551	552	551	549	546	541	537	533	530	529	529	531	535	539	544	548			
25	533	535	534	531	527	522	517	513	509	508	508	511	515	520	525	530			
30	510	511	510	507	503	498	493	488	484	482	483	486	490	495	501	506			
35	480	482	480	479	474	469	463	458	454	453	453	456	460	466	471	476			
40	447	448	447	445	441	435	429	425	421	419	419	422	426	431	437	442			
45	408	410	409	407	403	398	393	389	384	382	382	384	389	394	399	403			
50	366	368	368	366	363	357	353	349	344	342	342	344	348	353	358	362			
55	322	324	324	323	320	315	311	308	303	300	301	302	306	310	314	318			
60	276	278	278	278	275	271	268	264	260	257	257	259	262	265	269	272			
65	229	231	232	232	230	227	224	220	216	214	214	215	217	220	223	226			
70	183	185	186	186	184	182	180	177	173	170	170	171	172	175	177	180			
75	138	139	140	141	140	138	136	134	129	127	126	127	128	130	132	134			
80	94.2	95.8	96.9	97.4	97.0	95.9	94.1	92.0	88.1	86.3	85.5	85.6	86.4	87.6	89.2	90.8			
85	54.7	56.3	57.3	57.9	57.9	57.2	56.2	54.4	50.7	49.2	48.8	48.7	48.7	49.2	50.0	51.4			
90	35.2	35.5	35.7	35.9	35.9	35.8	35.6	35.1	34.2	33.8	34.1	34.5	34.9	35.0	34.9	34.8			
95	34.9	35.3	35.5	35.7	35.7	35.6	35.5	34.9	33.9	33.6	33.9	34.3	34.7	34.8	34.5	34.5			
100	34.0	34.4	34.6	34.8	34.7	34.7	34.5	33.9	33.0	32.7	32.9	33.4	33.7	33.8	33.6	33.6			
105	32.7	33.1	33.6	33.7	33.5	33.4	33.3	32.6	31.8	31.5	31.8	32.2	32.5	32.5	32.2	32.3			
110	31.1	31.4	31.8	32.0	31.8	31.7	31.5	30.9	30.2	30.1	30.1	30.4	30.8	30.8	30.6	30.6			
115	29.1	29.4	29.7	29.8	29.7	29.5	29.4	28.8	28.2	28.0	28.1	28.2	28.6	28.7	28.5	28.5			
120	26.7	26.9	27.1	27.2	27.2	27.1	27.0	26.4	25.9	25.7	25.6	25.7	26.1	26.2	26.2	26.2			
125	24.2	24.3	24.4	24.6	24.5	24.3	24.3	23.9	23.4	23.1	23.1	23.1	23.4	23.6	23.7	23.7			
130	21.4	21.4	21.6	21.8	21.7	21.6	21.5	21.2	20.7	20.4	20.4	20.3	20.6	20.7	20.8	21.0			
135	18.5	18.6	18.8	18.9	18.9	18.8	18.7	18.6	18.0	17.7	17.7	17.6	17.7	17.9	17.9	18.0			
140	15.7	15.9	16.1	16.2	16.2	16.1	16.0	16.0	15.3	15.1	14.7	14.9	14.7	15.1	15.2	15.3			
145	13.1	13.3	13.5	13.6	13.6	13.6	13.6	13.5	12.9	12.6	11.9	12.4	11.9	12.6	12.6	12.7			
150	10.8	10.6	11.0	11.2	11.2	11.2	11.3	11.2	10.5	10.2	9.58	9.94	9.83	10.00	10.1	10.2			
155	8.69	8.44	8.55	9.15	9.12	8.98	9.09	9.11	8.32	8.15	7.89	7.71	7.84	7.70	7.94	8.07			
160	6.72	6.35	6.35	7.14	7.05	6.93	7.08	7.10	6.18	6.19	6.02	5.56	5.29	5.41	5.90	6.02			
165	5.00	4.46	4.48	5.14	5.19	5.03	4.93	4.94	4.48	4.45	4.22	4.10	3.71	3.70	4.24	4.29			
170	3.30	2.84	2.95	3.71	3.60	3.29	3.22	2.69	3.11	3.11	2.94	2.72	2.18	2.48	2.64	2.63			
175	1.69	2.07	1.98	1.75	1.98	1.94	1.18	1.13	1.52	1.53	1.51	1.50	1.43	1.86	1.51	1.27			
180	0.68	0.88	0.91	0.91	0.90	0.85	0.90	0.91	0.92	0.92	0.92	0.92	0.92	0.91	0.90	0.91			

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