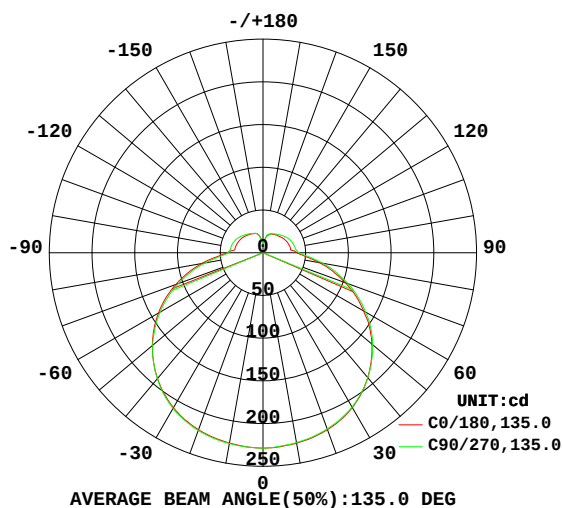


LUMINAIRE PHOTOMETRIC TEST REPORT

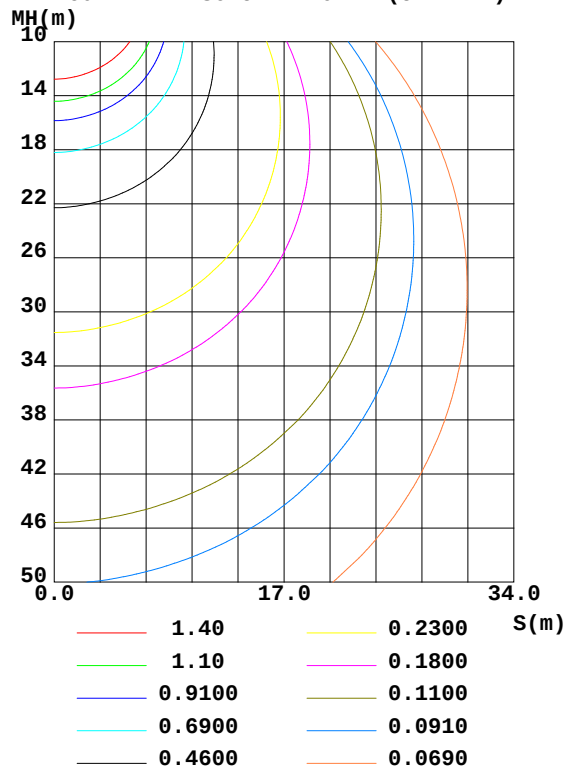
Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm		
NAME: ASD-LFC-LF-12D20-AC	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.:ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 52.69 lm/W			
MODEL	ASD-LFC-LF-12D20-AC	I _{max} (cd)	228.8	S/MH(C0/180)	1.36
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.36
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1057.6	η UP, DN(C0-180)	9.4, 40.6
NOMINAL FLUX(lm)	1057.58	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	9.3, 40.6
LAMPS INSIDE	1	η up(%)	18.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	81.3	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Evan
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.532m [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	226.1	226.6	226.7	226.7	226.5	225.9	225.5	225.8	0- 10	21.69	21.69	2.05, 2.05
20	220.4	220.9	221.3	221.2	220.4	219.9	219.5	219.7	10- 20	63.32	85.02	8.04, 8.04
30	209.5	210.2	210.5	210.0	209.1	208.8	208.5	208.8	20- 30	99.55	184.6	17.5, 17.5
40	192.0	192.2	192.6	191.7	190.8	190.8	190.8	191.3	30- 40	126.0	310.6	29.4, 29.4
50	169.1	168.6	168.5	167.2	166.4	167.2	167.6	168.4	40- 50	139.2	449.8	42.5, 42.5
60	141.4	139.6	139.2	137.2	136.0	137.7	138.5	140.0	50- 60	137.7	587.6	55.6, 55.6
70	108.6	106.0	105.2	102.8	102.5	104.9	105.9	107.3	60- 70	121.3	708.9	67, 67
80	72.94	69.69	68.49	66.32	67.11	69.57	71.09	71.90	70- 80	92.69	801.6	75.8, 75.8
90	42.12	41.02	40.81	39.38	39.76	41.59	42.42	42.46	80- 90	57.81	859.4	81.3, 81.3
100	33.13	37.34	38.10	36.58	32.62	37.71	38.00	37.29	90-100	41.70	901.1	85.2, 85.2
110	32.17	35.20	36.65	34.51	31.61	35.30	36.31	34.75	100-110	37.45	938.5	88.7, 88.7
120	30.88	32.96	34.19	32.30	30.10	32.78	33.86	32.42	110-120	33.04	971.6	91.9, 91.9
130	29.25	30.54	31.29	29.91	28.20	30.06	30.86	29.80	120-130	27.93	999.5	94.5, 94.5
140	27.28	28.30	28.51	27.58	26.41	27.43	27.98	27.44	130-140	22.30	1022	96.6, 96.6
150	25.78	26.17	26.08	25.73	24.95	25.24	25.68	25.50	140-150	16.76	1039	98.2, 98.2
160	24.09	24.19	24.21	23.72	23.51	22.63	23.32	23.22	150-160	11.43	1050	99.3, 99.3
170	18.38	18.25	17.53	17.82	17.22	17.33	17.25	17.38	160-170	6.173	1056	99.9, 99.9
180	11.19	11.32	11.28	11.07	11.54	11.37	12.36	12.15	170-180	1.416	1058	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 379.46 lm

%lum = 35.9%

%lamp = 35.9%

Conical surface Flux(120deg): 587.57 lm

%lum = 55.6%

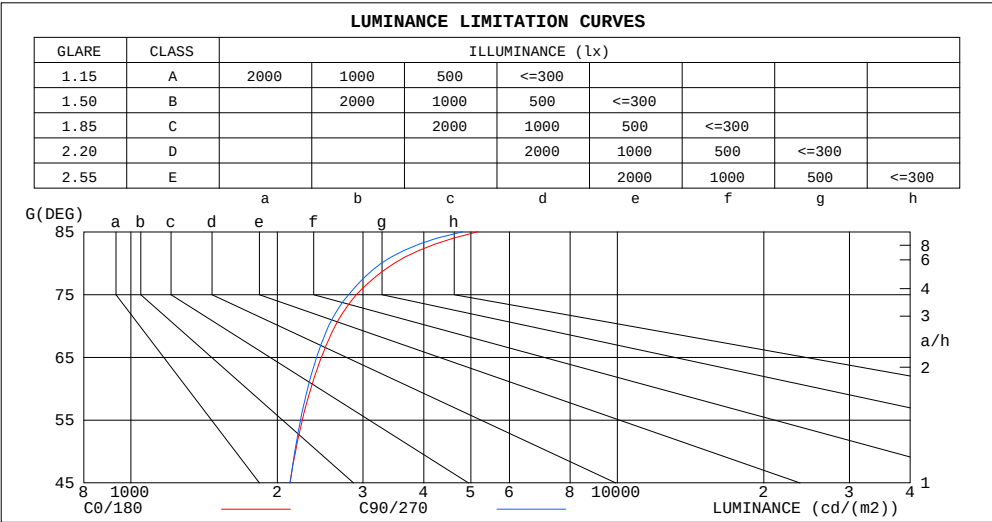
%lamp = 55.6%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Evan
 Test Date: 2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 44%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm		
NAME: ASD-LFC-LF-12D20-AC	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	5158	4808
80	3481	3270
75	2908	2805
70	2630	2550
65	2465	2409
60	2343	2308
55	2252	2232
50	2180	2173
45	2123	2124

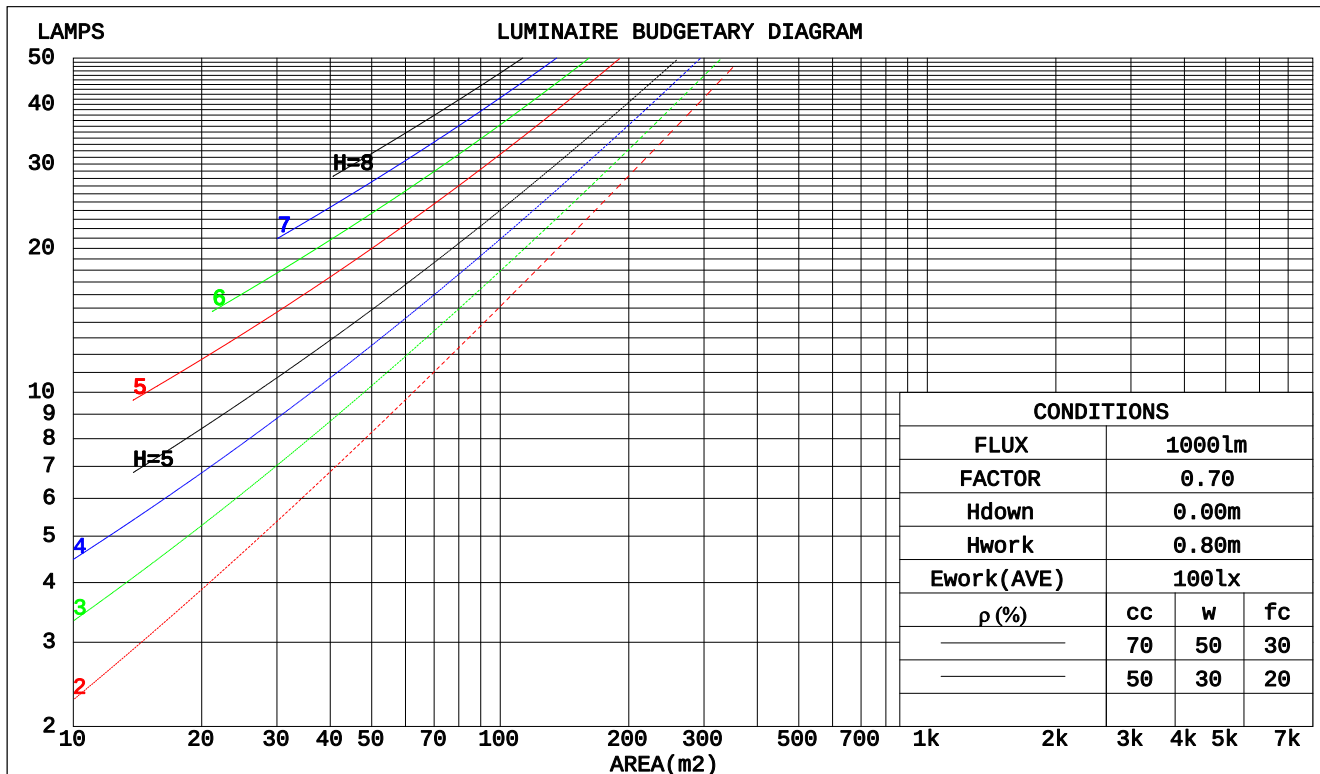
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Evan
Test Date:2022-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.532m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm		
NAME: ASD-LFC-LF-12D20-AC	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.92	.92	.92	.85	.85	.85	.81
1.0	.97	.92	.87	.93	.88	.84	.85	.81	.78	.78	.75	.72	.71	.69	.67	.63
2.0	.83	.75	.69	.79	.72	.67	.73	.67	.62	.67	.62	.58	.61	.57	.54	.51
3.0	.72	.63	.56	.69	.61	.54	.63	.57	.51	.58	.52	.48	.53	.49	.45	.42
4.0	.63	.54	.47	.61	.52	.45	.56	.48	.43	.51	.45	.40	.47	.42	.38	.35
5.0	.56	.47	.40	.54	.45	.39	.50	.42	.37	.46	.39	.34	.42	.37	.32	.30
6.0	.50	.41	.34	.48	.40	.33	.44	.37	.32	.41	.35	.30	.38	.32	.28	.26
7.0	.45	.36	.30	.43	.35	.29	.40	.33	.28	.37	.31	.26	.34	.29	.25	.22
8.0	.41	.32	.26	.40	.31	.26	.37	.30	.24	.34	.28	.23	.31	.26	.22	.20
9.0	.37	.29	.24	.36	.28	.23	.34	.27	.22	.31	.25	.21	.29	.24	.20	.18
10.0	.34	.26	.21	.33	.26	.21	.31	.24	.20	.29	.23	.19	.27	.22	.18	.16



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Evan
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.532m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm									
NAME: ASD-LFC-LF-12D20-AC					TYPE:N/A			WEIGHT:N/A	
SPEC.:N/A					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	.362	.206	.065	.349	.199	.063	.325	.186	.060	.303	.175	.056	.282	.164	.053	
2.0	.321	.176	.054	.309	.170	.052	.287	.160	.050	.267	.150	.047	.249	.141	.044	
3.0	.288	.153	.046	.278	.149	.045	.258	.140	.043	.240	.131	.040	.223	.123	.038	
4.0	.261	.136	.040	.252	.132	.039	.234	.124	.037	.217	.117	.035	.202	.110	.033	
5.0	.239	.122	.035	.230	.118	.034	.214	.111	.033	.198	.105	.031	.184	.098	.030	
6.0	.219	.110	.031	.211	.107	.031	.197	.101	.029	.183	.095	.028	.170	.089	.027	
7.0	.203	.100	.028	.195	.097	.028	.182	.092	.026	.169	.087	.025	.157	.082	.024	
8.0	.188	.092	.026	.182	.089	.025	.169	.085	.024	.157	.080	.023	.146	.075	.022	
9.0	.176	.085	.024	.170	.083	.023	.158	.078	.022	.147	.074	.021	.137	.070	.020	
10.0	.165	.079	.022	.159	.077	.021	.148	.073	.020	.138	.069	.020	.129	.065	.019	

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						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.333	.333	.333	.285	.285	.285	.194	.194	.194	.112	.112	.112	.036	.036	.036		
1.0	.328	.300	.274	.281	.257	.236	.192	.177	.163	.110	.102	.095	.035	.033	.031		
2.0	.321	.277	.239	.275	.238	.207	.188	.165	.144	.109	.096	.085	.035	.031	.028		
3.0	.314	.260	.217	.269	.224	.189	.185	.156	.132	.107	.091	.078	.034	.030	.026		
4.0	.306	.248	.203	.263	.214	.176	.181	.149	.124	.105	.087	.073	.034	.028	.024		
5.0	.299	.238	.193	.257	.206	.168	.177	.144	.118	.102	.084	.070	.033	.028	.023		
6.0	.291	.230	.186	.251	.199	.162	.173	.139	.114	.100	.082	.068	.032	.027	.022		
7.0	.285	.223	.180	.245	.194	.157	.169	.136	.111	.098	.080	.066	.032	.026	.022		
8.0	.278	.218	.176	.239	.189	.154	.166	.133	.109	.096	.078	.065	.031	.026	.022		
9.0	.272	.213	.173	.234	.185	.151	.162	.130	.107	.095	.077	.064	.031	.025	.021		
10.0	.266	.209	.171	.229	.181	.149	.159	.128	.106	.093	.075	.063	.030	.025	.021		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Evan
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.532m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm										
NAME: ASD-LFC-LF-12D20-AC					TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A					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	14.7	16.1	15.2	16.6	17.2	14.7	16.0	15.2	16.5	17.1
3H	16.9	18.1	17.4	18.6	19.3	16.8	18.0	17.3	18.5	19.2
4H	17.9	19.1	18.5	19.7	20.3	17.8	19.0	18.4	19.5	20.2
6H	19.0	20.1	19.6	20.7	21.3	18.8	19.9	19.4	20.5	21.1
8H	19.5	20.6	20.1	21.2	21.8	19.3	20.4	19.9	20.9	21.6
12H	20.1	21.1	20.7	21.7	22.4	19.8	20.8	20.4	21.4	22.1
4H 2H	15.4	16.6	16.0	17.2	17.8	15.4	16.6	16.0	17.1	17.8
3H	17.7	18.8	18.4	19.4	20.1	17.7	18.7	18.3	19.3	20.0
4H	19.0	19.9	19.6	20.5	21.2	18.9	19.8	19.5	20.4	21.1
6H	20.2	21.0	20.8	21.7	22.4	20.0	20.9	20.7	21.5	22.3
8H	20.8	21.6	21.5	22.3	23.0	20.6	21.4	21.3	22.1	22.8
12H	21.5	22.2	22.1	22.9	23.6	21.2	21.9	21.9	22.6	23.4
8H 4H	19.4	20.2	20.1	20.8	21.6	19.3	20.1	20.0	20.7	21.5
6H	20.8	21.5	21.5	22.2	23.0	20.7	21.4	21.4	22.1	22.9
8H	21.6	22.2	22.3	22.9	23.8	21.4	22.0	22.2	22.7	23.6
12H	22.5	23.0	23.2	23.7	24.6	22.3	22.8	23.0	23.5	24.3
12H 4H	19.4	20.2	20.1	20.8	21.6	19.4	20.1	20.1	20.8	21.6
6H	21.0	21.6	21.7	22.3	23.1	20.9	21.5	21.6	22.2	23.0
8H	21.9	22.4	22.6	23.1	24.0	21.7	22.2	22.4	22.9	23.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1058 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Evan
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.532m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm		
NAME: ASD-LFC-LF-12D20-AC	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A

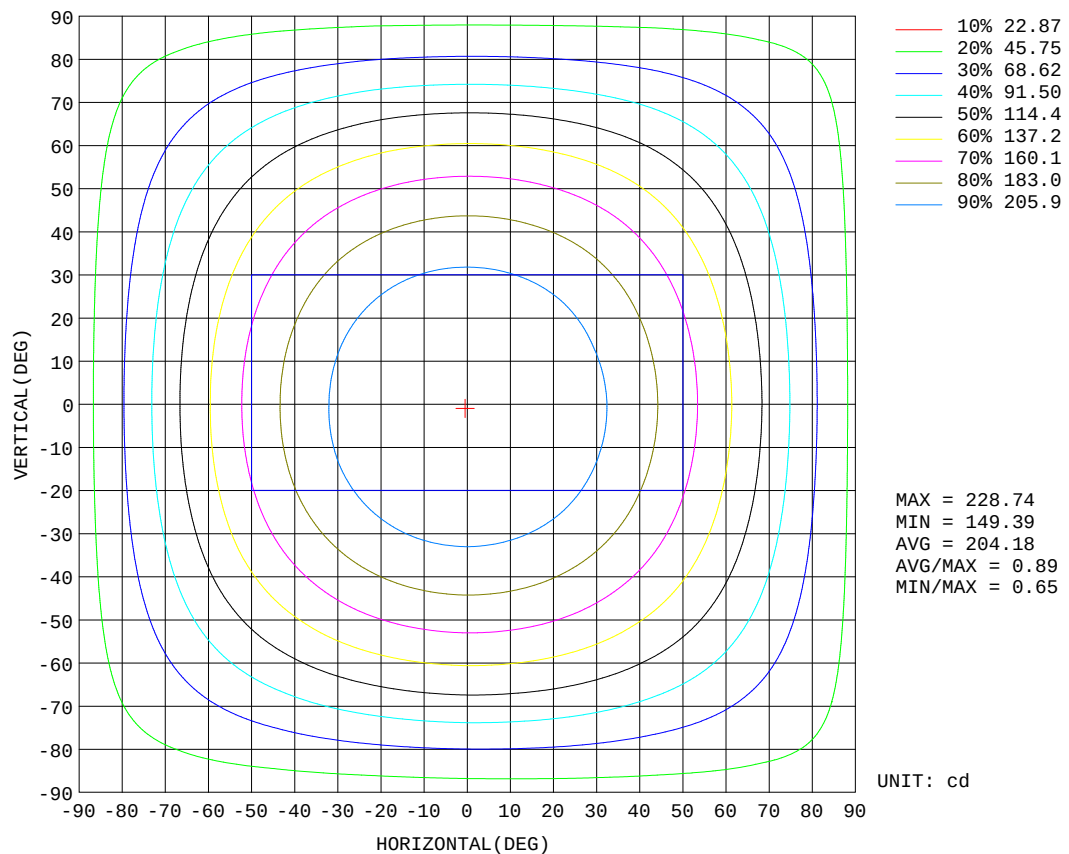
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	48	36	29	47	35	28	45	34	28	21
0.80	58	45	37	56	44	36	53	42	35	27
1.00	66	53	45	63	52	44	60	52	43	34
1.25	73	60	52	70	59	51	66	56	49	39
1.50	78	66	58	75	64	57	70	61	54	44
2.00	85	75	67	82	72	65	76	68	62	50
2.50	90	80	72	86	77	70	80	72	67	54
3.00	93	84	77	90	82	75	83	76	71	57
4.00	98	90	84	94	87	82	86	81	77	62
5.00	101	94	89	97	91	86	89	84	80	65
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:25.1DEG
 Operators:Evan
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.532m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm		
NAME: ASD-LFC-LF-12D20-AC	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.:ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A

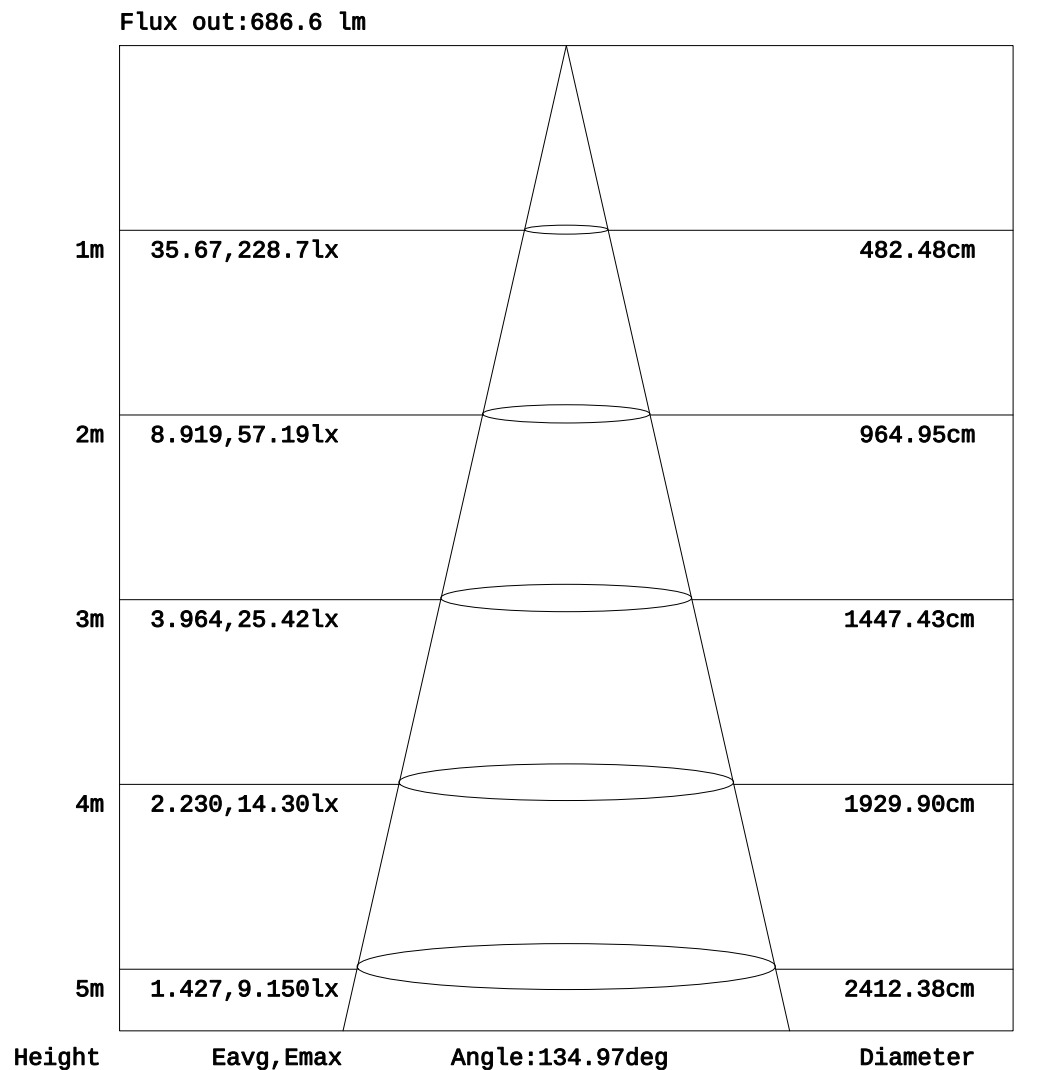


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Evan
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.532m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm		
NAME: ASD-LFC-LF-12D20-AC	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A



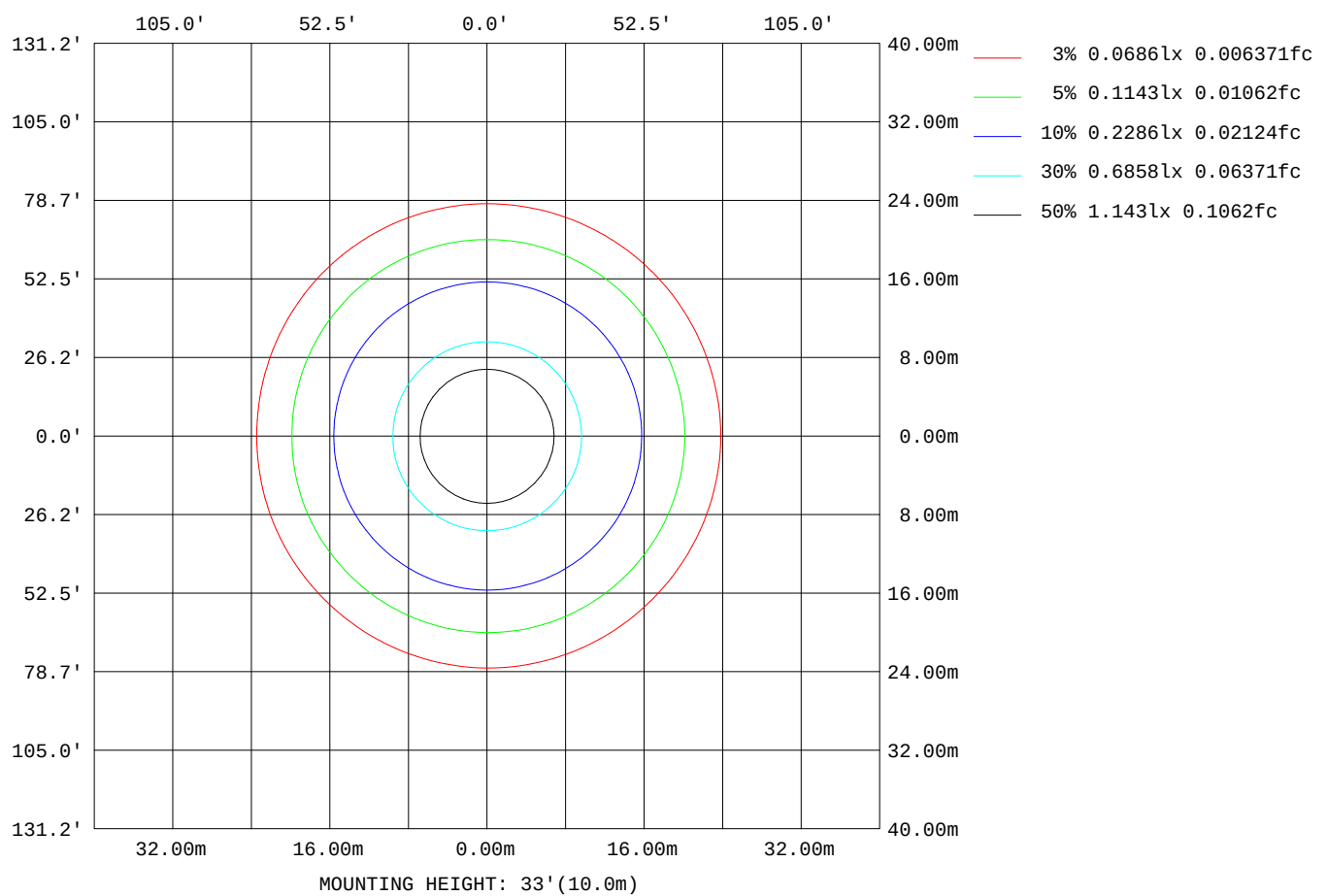
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Evan
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.532m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm		
NAME: ASD-LFC-LF-12D20-AC	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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: HIGH
 Temperature: 25.1DEG
 Operators: Evan
 Test Date: 2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 44%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm		
NAME: ASD-LFC-LF-12D20-AC	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A

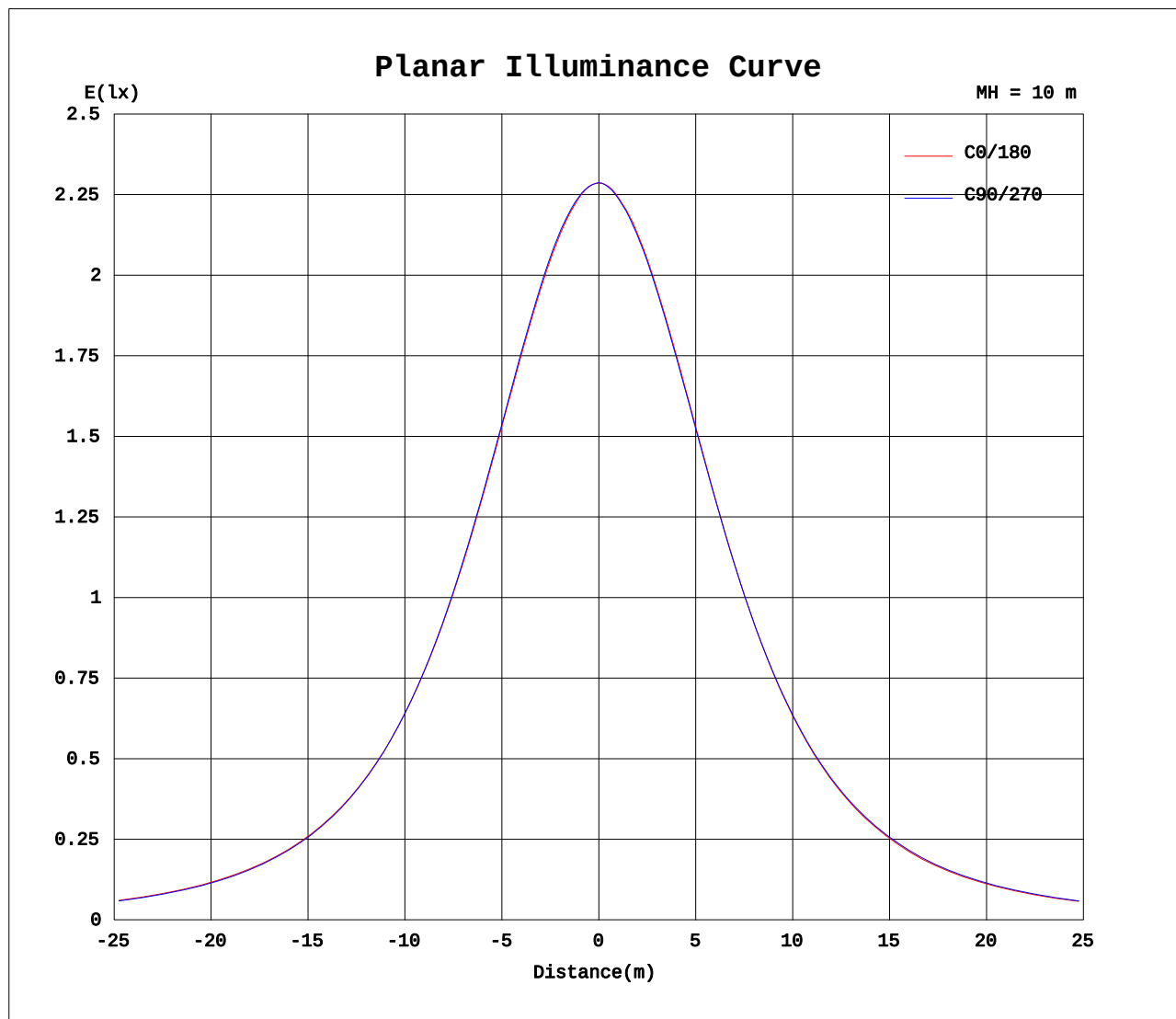
AvgL	cd/m2
L_0~180(65)av	2408
L_0~180(75)av	2815
L_0~180(85)av	4955
L_90~270(65)av	2408
L_90~270(75)av	2821
L_90~270(85)av	4943
L_45(65)av	2402
L_45(75)av	2809
L_45(85)av	4900

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Evan
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.532m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Evan
Test Date: 2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 44%
Test Distance: 2.532m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.1801A P:20.07W PF:0.9281 Lamp Flux:1057.58x1 lm																	
NAME: ASD-LFC-LF-12D20-AC									TYPE:N/A						WEIGHT:N/A		
SPEC.:N/A									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	229	229	229	229	229	229	229	229	229	229	229	229	229	229	229	229			
5	228	228	228	228	228	228	228	228	228	227	228	228	227	227	228	228			
10	226	226	227	227	227	227	227	227	227	226	226	226	225	226	226	226			
15	224	224	224	225	225	225	225	224	224	224	223	223	223	223	223	223			
20	220	221	221	221	221	221	221	221	220	220	220	220	219	220	220	220			
25	216	216	216	217	217	217	216	216	216	215	215	215	215	215	215	215			
30	209	210	210	210	210	210	210	210	209	209	209	209	209	209	209	209			
35	202	202	202	202	202	202	202	201	201	200	201	201	200	201	201	201			
40	192	192	192	193	193	192	192	191	191	191	191	191	191	191	191	191			
45	181	181	181	181	181	181	180	180	179	179	180	180	180	180	181	180			
50	169	169	169	169	168	168	167	167	166	167	167	168	168	168	168	168			
55	156	155	155	155	154	154	153	152	152	153	153	154	154	155	155	155			
60	141	140	140	140	139	138	137	137	136	137	138	138	138	139	140	140			
65	126	124	123	123	123	122	121	121	120	121	122	123	123	123	124	125			
70	109	107	106	106	105	104	103	103	102	104	105	106	106	106	107	108			
75	90.8	89.3	88.3	88.0	87.6	86.2	85.1	85.1	85.0	86.2	87.6	88.5	88.7	89.0	89.9	90.1			
80	72.9	71.1	69.7	69.3	68.5	67.3	66.3	66.6	67.1	68.2	69.6	70.8	71.1	71.3	71.9	72.0			
85	54.3	52.2	51.3	51.2	50.5	49.5	48.8	49.0	50.0	50.8	52.2	53.2	53.4	53.6	53.8	53.7			
90	42.1	41.5	41.0	41.1	40.8	40.0	39.4	39.3	39.8	40.6	41.6	42.3	42.4	42.4	42.5	42.1			
95	34.5	38.2	38.4	38.8	38.7	38.0	37.4	37.1	34.1	38.0	38.7	39.2	39.1	38.9	38.8	38.5			
100	33.1	35.9	37.3	37.9	38.1	37.3	36.6	35.5	32.6	36.1	37.7	38.1	38.0	37.6	37.3	35.8			
105	32.7	33.6	36.3	37.3	37.6	36.6	35.6	33.2	32.2	33.8	36.5	37.3	37.2	36.8	36.0	33.4			
110	32.2	32.2	35.2	36.3	36.6	35.8	34.5	31.5	31.6	32.2	35.3	36.3	36.3	35.7	34.7	31.9			
115	31.5	31.6	34.1	35.2	35.5	34.6	33.5	30.9	30.9	31.3	34.1	35.0	35.2	34.6	33.7	30.8			
120	30.9	30.9	33.0	34.0	34.2	33.5	32.3	30.2	30.1	30.4	32.8	33.7	33.9	33.3	32.4	30.1			
125	30.1	30.3	31.7	32.8	32.8	32.3	31.1	29.3	29.2	29.4	31.4	32.4	32.4	32.1	31.1	29.5			
130	29.2	29.4	30.5	31.6	31.3	31.0	29.9	28.5	28.2	28.5	30.1	31.0	30.9	30.8	29.8	28.7			
135	28.2	28.4	29.3	30.2	29.8	29.6	28.7	27.6	27.2	27.5	28.8	29.5	29.4	29.4	28.6	27.7			
140	27.3	27.6	28.3	28.7	28.5	28.3	27.6	26.9	26.4	26.6	27.4	28.1	28.0	28.0	27.4	26.9			
145	26.6	26.7	27.2	27.6	27.4	27.3	26.6	26.2	25.8	25.7	26.4	27.0	26.8	26.9	26.4	26.0			
150	25.8	25.8	26.2	26.4	26.1	26.2	25.7	25.3	24.9	24.8	25.2	25.8	25.7	25.8	25.5	25.1			
155	24.9	25.0	25.2	25.4	25.2	25.1	24.7	24.6	24.4	24.0	24.1	24.5	24.4	24.4	24.3	24.3			
160	24.1	24.2	24.2	24.3	24.2	24.0	23.7	23.4	23.5	22.8	22.6	23.1	23.3	23.3	23.2	23.3			
165	21.9	22.3	22.4	22.1	21.5	21.4	22.1	21.8	21.4	21.3	21.4	21.8	22.0	21.8	21.8	21.8			
170	18.4	18.3	18.2	17.9	17.5	17.9	17.8	17.6	17.2	17.2	17.3	17.3	17.3	17.2	17.4	18.0			
175	14.3	14.4	14.3	13.8	13.5	13.9	13.5	13.4	13.4	13.4	13.3	13.3	13.5	13.1	13.4	13.9			
180	11.2	11.3	11.3	11.9	11.3	12.0	11.1	10.0	11.5	11.6	11.4	11.7	12.4	12.1	12.1	11.5			

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