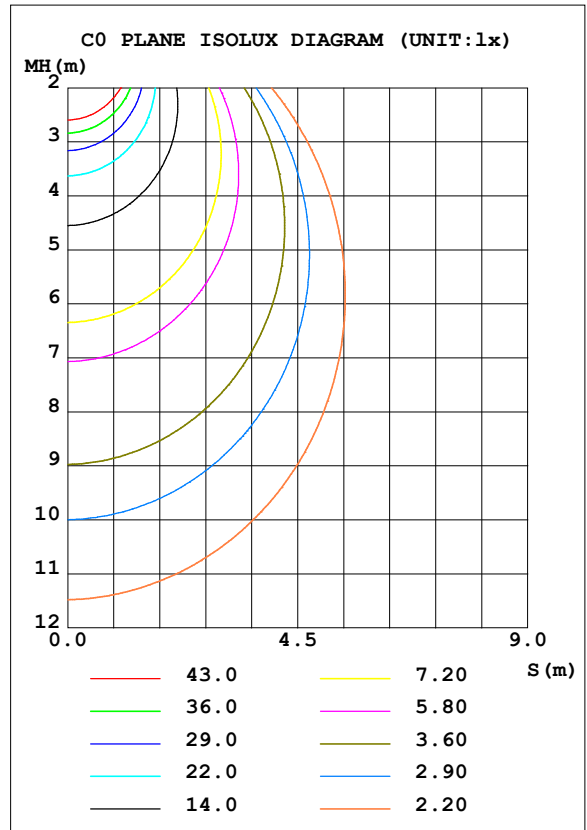
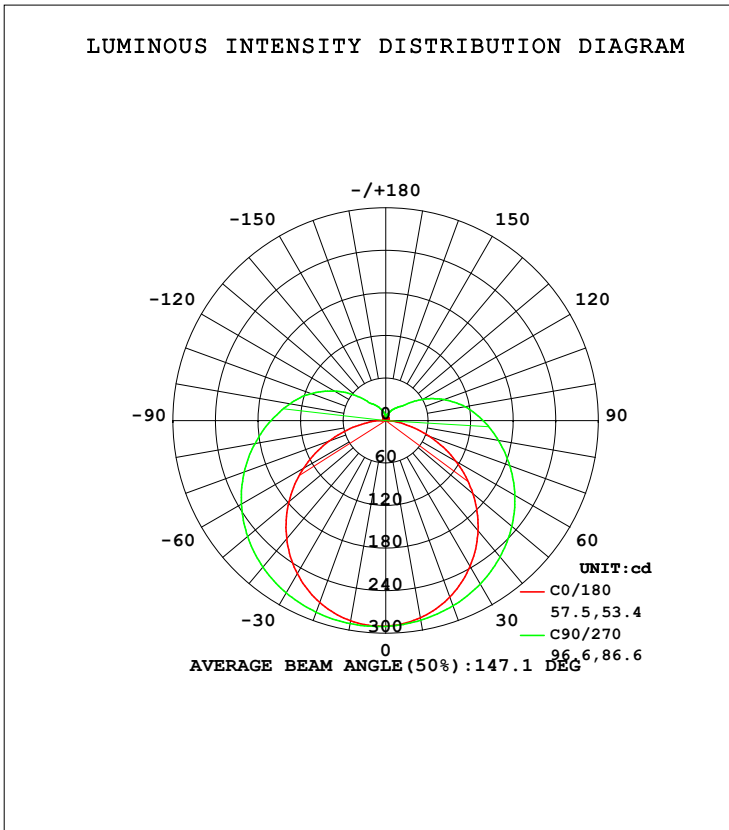


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.37 lm/W			
MODEL	ASD-LVF23-18D20CC-BK	I _{max} (cd)	291.2	S/MH (C0/180)	1.28
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)	1.46
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1398.8	η UP, DN (C0-180)	8.0, 39.1
NOMINAL FLUX (lm)	1398.8	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.4, 42.4
LAMPS INSIDE	1	η up (%)	18.4	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	120	η down (%)	81.6	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2025-08-19

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:

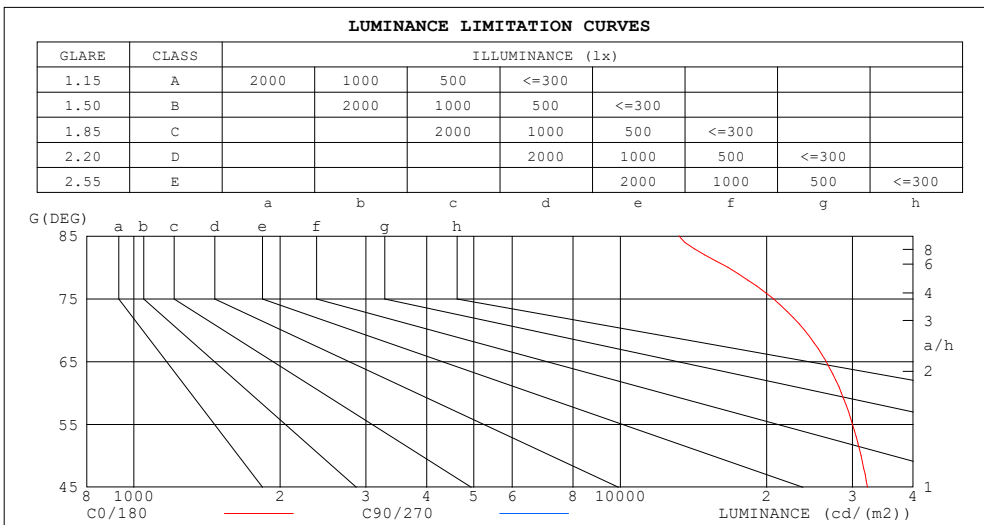
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	282.5	283.7	285.8	286.5	286.6	289.5	290.8	288.0	0- 10	27.54	27.54	1.97,1.97
20	264.6	271.4	277.9	274.1	272.9	282.8	287.6	277.2	10- 20	79.76	107.3	7.67,7.67
30	237.8	254.0	266.4	255.1	249.4	269.9	280.7	259.2	20- 30	123.8	231.1	16.5,16.5
40	202.6	231.6	250.9	230.4	217.5	252.1	269.7	235.6	30- 40	155.6	386.7	27.6,27.6
50	160.7	205.9	232.1	201.4	178.2	229.7	254.3	207.6	40- 50	172.3	558.9	40,40
60	113.9	178.2	210.3	170.2	133.6	204.3	235.1	177.2	50- 60	173.4	732.3	52.4,52.4
70	65.45	149.8	186.2	138.5	85.30	177.2	212.4	146.2	60- 70	160.5	892.8	63.8,63.8
80	23.13	122.7	161.5	108.3	38.99	149.4	187.3	116.6	70- 80	137.4	1030	73.7,73.7
90	3.689	99.08	137.4	83.18	8.507	123.4	161.9	91.56	80- 90	110.8	1141	81.6,81.6
100	1.611	76.96	114.1	62.43	3.129	101.1	137.4	71.97	90-100	87.67	1229	87.8,87.8
110	1.881	53.87	87.25	41.47	3.056	79.06	112.0	51.28	100-110	65.68	1294	92.5,92.5
120	2.956	31.12	60.26	21.67	4.154	55.57	83.75	30.74	110-120	44.45	1339	95.7,95.7
130	3.778	20.95	33.92	16.35	5.110	32.35	55.07	20.79	120-130	26.73	1366	97.6,97.6
140	4.443	15.96	23.99	13.21	6.122	22.35	31.65	16.98	130-140	15.36	1381	98.7,98.7
150	5.525	11.97	16.88	10.52	6.882	17.05	23.03	13.85	140-150	9.467	1390	99.4,99.4
160	5.094	8.864	11.31	7.477	5.696	13.35	16.00	10.99	150-160	5.386	1396	99.8,99.8
170	5.185	7.802	7.809	5.169	5.414	6.173	7.380	8.779	160-170	2.410	1398	100,100
180	8.532	7.304	5.266	8.202	8.526	7.288	5.293	8.207	170-180	0.6492	1399	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:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13197	214211
80	16650	116234
75	20654	83934
70	23922	68054
65	26516	58707
60	28480	52570
55	30024	48280
50	31249	45144
45	32247	42761

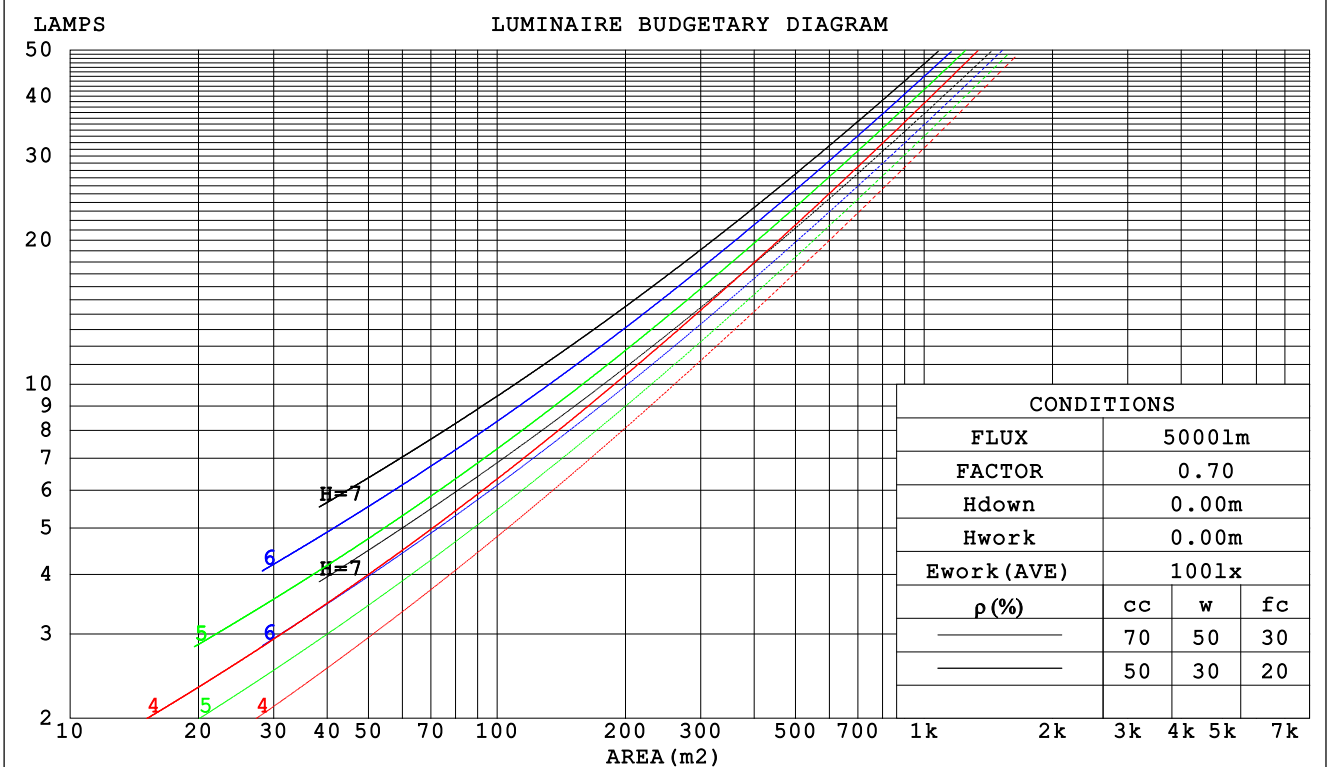
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
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	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.93	.93	.93	.85	.85	.85	.82
1.0	.95	.90	.85	.91	.86	.82	.83	.79	.76	.76	.73	.70	.70	.67	.65	.61
2.0	.81	.73	.67	.78	.70	.64	.71	.65	.60	.65	.60	.56	.59	.55	.52	.49
3.0	.70	.61	.54	.67	.59	.52	.62	.55	.49	.56	.51	.46	.51	.47	.43	.40
4.0	.62	.52	.45	.59	.50	.44	.54	.47	.41	.50	.43	.38	.45	.40	.36	.33
5.0	.55	.45	.38	.52	.44	.37	.48	.41	.35	.44	.38	.33	.41	.35	.31	.28
6.0	.49	.40	.33	.47	.38	.32	.43	.36	.30	.40	.33	.28	.37	.31	.27	.24
7.0	.44	.35	.29	.42	.34	.28	.39	.32	.26	.36	.30	.25	.33	.28	.24	.21
8.0	.40	.31	.25	.39	.30	.25	.36	.28	.23	.33	.27	.22	.30	.25	.21	.19
9.0	.37	.28	.22	.35	.27	.22	.33	.26	.21	.30	.24	.20	.28	.23	.19	.17
10.0	.34	.26	.20	.32	.25	.20	.30	.23	.19	.28	.22	.18	.26	.21	.17	.15



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.392	.223	.071	.379	.216	.069	.355	.204	.065	.333	.192	.062	.313	.181	.058	
2.0	.338	.185	.057	.326	.180	.055	.304	.169	.053	.284	.159	.050	.266	.150	.047	
3.0	.299	.159	.048	.289	.155	.047	.269	.146	.044	.251	.137	.042	.234	.129	.040	
4.0	.269	.140	.041	.259	.136	.040	.241	.128	.038	.225	.121	.036	.209	.114	.035	
5.0	.244	.124	.036	.235	.121	.035	.219	.114	.034	.204	.108	.032	.190	.101	.030	
6.0	.223	.112	.032	.216	.109	.031	.201	.103	.030	.187	.097	.029	.174	.092	.027	
7.0	.206	.102	.029	.199	.099	.028	.185	.094	.027	.172	.088	.026	.161	.083	.025	
8.0	.191	.093	.026	.184	.091	.026	.172	.086	.025	.160	.081	.023	.149	.077	.022	
9.0	.178	.086	.024	.172	.084	.023	.160	.079	.022	.149	.075	.021	.139	.071	.020	
10.0	.166	.080	.022	.161	.078	.022	.150	.074	.021	.140	.070	.020	.131	.066	.019	

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	.331	.331	.331	.283	.283	.283	.193	.193	.193	.111	.111	.111	.035	.035	.035	
1.0	.328	.297	.269	.280	.255	.232	.192	.175	.160	.110	.101	.093	.035	.033	.030	
2.0	.321	.274	.235	.275	.236	.203	.188	.163	.142	.109	.095	.083	.035	.031	.027	
3.0	.313	.258	.213	.269	.222	.185	.184	.154	.130	.107	.090	.077	.034	.029	.025	
4.0	.306	.245	.199	.262	.212	.173	.180	.148	.122	.104	.087	.072	.034	.028	.024	
5.0	.298	.236	.190	.256	.204	.165	.176	.142	.116	.102	.084	.069	.033	.027	.023	
6.0	.290	.228	.183	.250	.197	.159	.172	.138	.113	.100	.081	.067	.032	.027	.022	
7.0	.283	.221	.177	.244	.192	.155	.168	.134	.110	.098	.079	.065	.032	.026	.022	
8.0	.277	.215	.174	.238	.187	.151	.165	.131	.107	.096	.077	.064	.031	.025	.021	
9.0	.270	.211	.171	.233	.183	.149	.161	.129	.106	.094	.076	.063	.030	.025	.021	
10.0	.264	.207	.168	.228	.179	.147	.158	.126	.104	.092	.075	.062	.030	.025	.021	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm										
NAME: ASD-LVF23-18D20CC-BK					TYPE:			WEIGHT:		
SPEC.:5000K					DIM.:			SERIAL No.:3CCT-5000K		
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	22.1	23.5	22.6	24.0	24.6	24.4	25.8	24.9	26.3	26.9
3H	23.6	24.8	24.1	25.4	26.0	27.1	28.4	27.7	28.9	29.5
4H	24.1	25.4	24.7	25.9	26.6	28.6	29.8	29.2	30.4	31.0
6H	24.5	25.7	25.1	26.3	26.9	30.3	31.4	30.9	32.0	32.7
8H	24.6	25.7	25.2	26.3	27.0	31.2	32.3	31.8	32.9	33.6
12H	24.7	25.8	25.3	26.4	27.1	32.3	33.3	32.9	33.9	34.6
4H 2H	23.4	24.6	23.9	25.1	25.8	25.0	26.2	25.5	26.8	27.4
3H	25.2	26.2	25.8	26.8	27.5	28.0	29.0	28.6	29.6	30.3
4H	26.0	27.0	26.6	27.6	28.3	29.7	30.6	30.3	31.3	32.0
6H	26.6	27.5	27.3	28.2	28.9	31.5	32.4	32.2	33.1	33.8
8H	26.9	27.7	27.5	28.4	29.1	32.6	33.4	33.3	34.1	34.8
12H	27.0	27.8	27.7	28.5	29.3	33.8	34.6	34.5	35.2	36.0
8H 4H	27.2	28.0	27.9	28.7	29.5	30.0	30.9	30.7	31.5	32.3
6H	28.3	29.0	29.0	29.7	30.5	32.2	32.9	32.9	33.6	34.4
8H	28.8	29.4	29.5	30.1	31.0	33.5	34.1	34.2	34.8	35.7
12H	29.2	29.8	29.9	30.5	31.3	35.0	35.5	35.7	36.3	37.1
12H 4H	27.6	28.3	28.3	29.0	29.8	30.1	30.8	30.7	31.5	32.3
6H	29.0	29.6	29.7	30.3	31.1	32.4	33.0	33.1	33.7	34.5
8H	29.7	30.2	30.4	30.9	31.8	33.8	34.3	34.5	35.0	35.9
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	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 1399 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.2)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

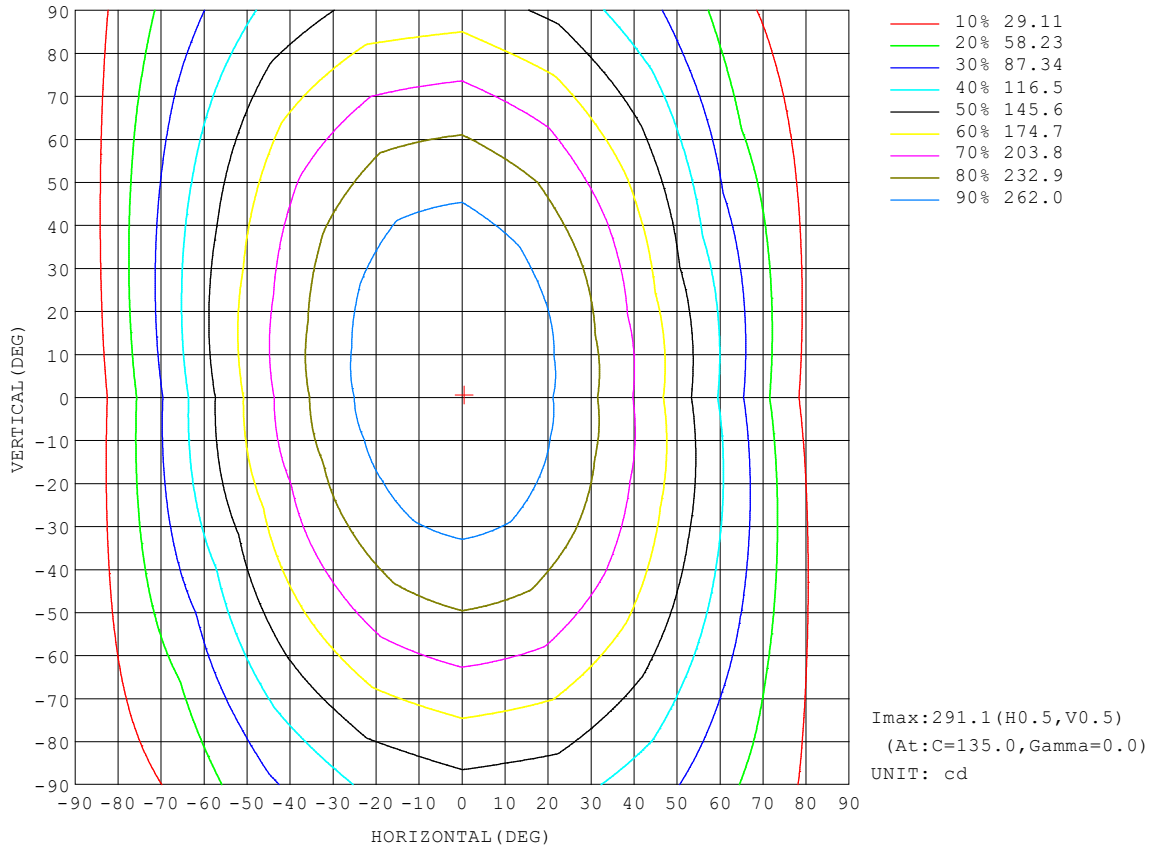
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	55	42	35	52	41	34	26
1.00	64	51	42	62	50	42	58	50	41	32
1.25	71	58	49	68	57	48	64	54	47	37
1.50	76	64	55	73	62	54	68	59	52	41
2.00	83	72	64	80	70	62	74	66	59	48
2.50	88	77	69	84	75	68	78	70	64	51
3.00	92	82	74	88	79	72	81	74	68	55
4.00	96	88	81	92	85	79	85	79	74	60
5.00	99	92	86	95	89	83	88	83	78	63
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:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

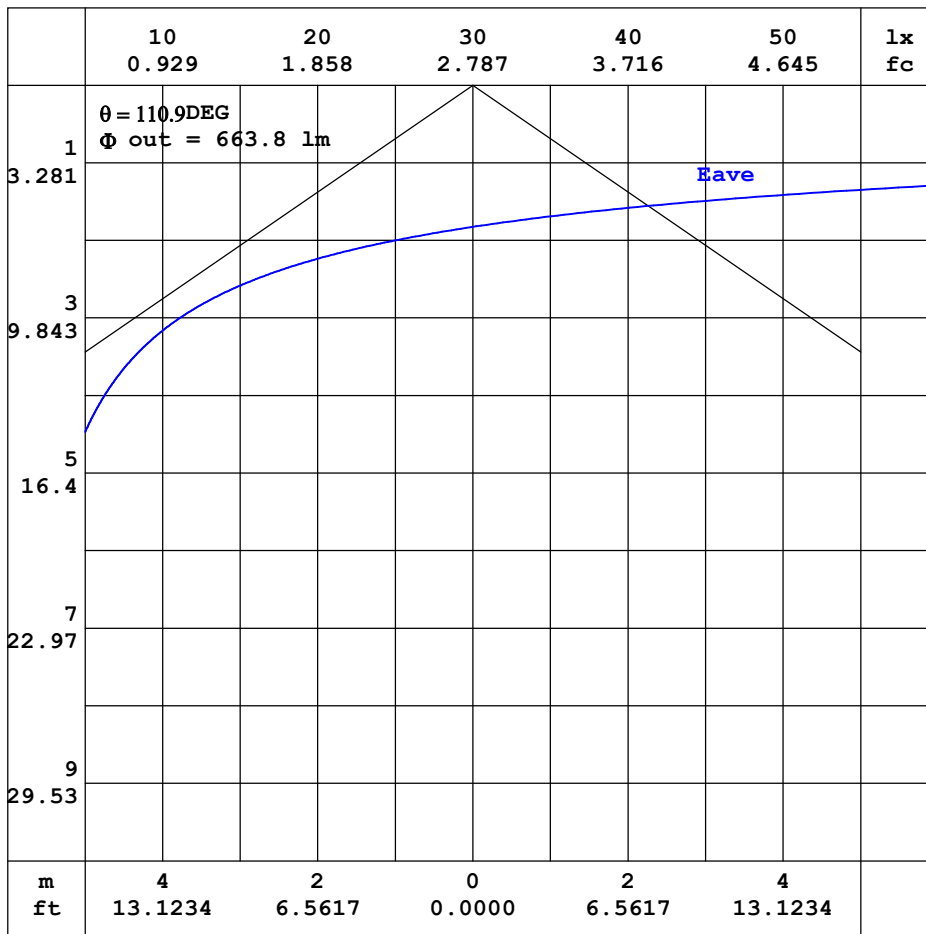


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



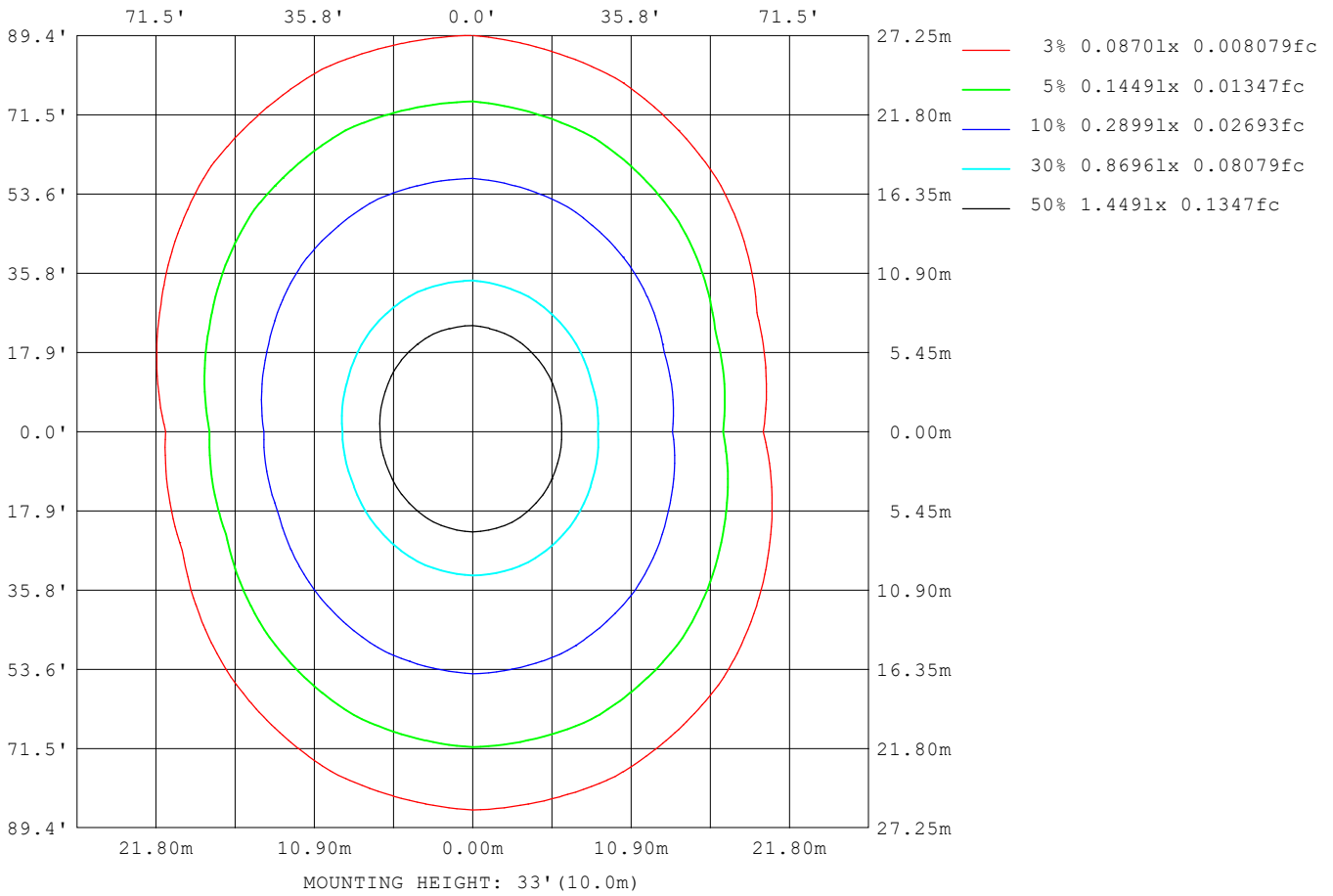
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
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:2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

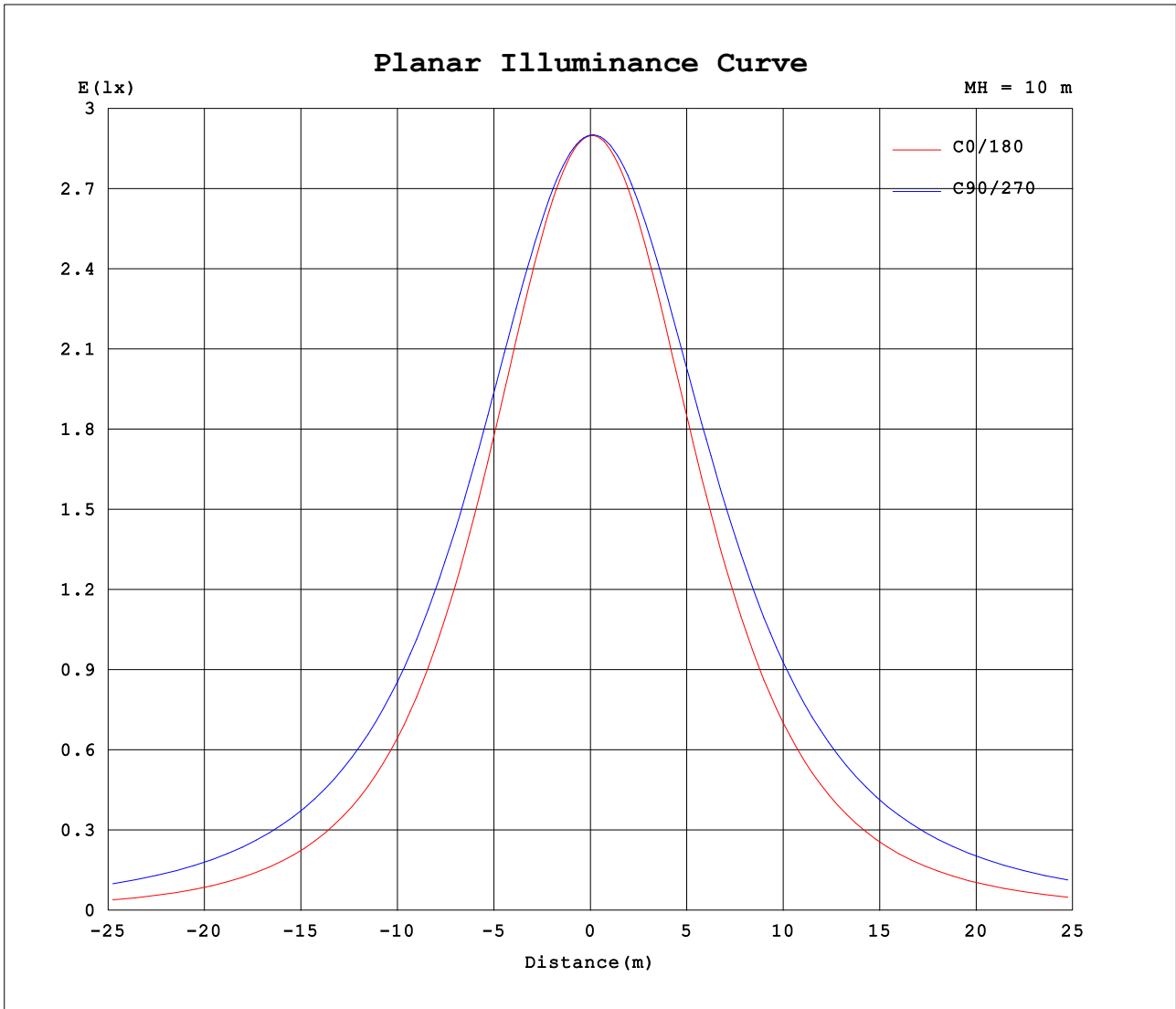
AvgL	cd/m2
L_0~180 (65) av	29485
L_0~180 (75) av	25146
L_0~180 (85) av	21281
L_90~270 (65) av	62514
L_90~270 (75) av	90294
L_90~270 (85) av	232269
L_45 (65) av	49618
L_45 (75) av	66803
L_45 (85) av	159385

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-19

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: 2025-08-19

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:120.03V I:0.1838A P:20.762W PF:0.9412 Freq:59.98Hz Lamp Flux:1398.8x1 lm		
NAME: ASD-LVF23-18D20CC-BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:3CCT-5000K
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	290	290	290	290	290	291	291	291	290	290	290	290	290	291	291	291			
5	288	288	288	288	288	289	290	290	290	290	290	291	291	291	290	289			
10	282	283	284	285	286	286	286	286	287	288	289	291	291	290	288	285			
15	275	276	278	281	282	282	281	280	281	283	287	289	290	287	284	278			
20	265	267	271	276	278	277	274	272	273	277	283	287	288	284	277	269			
25	252	256	263	270	273	271	265	261	262	268	277	283	285	279	269	258			
30	238	243	254	263	266	263	255	249	249	257	270	279	281	273	259	245			
35	221	229	243	255	259	255	243	234	234	245	262	274	276	265	248	229			
40	203	214	232	246	251	245	230	218	217	231	252	267	270	257	236	212			
45	182	197	219	237	242	234	216	199	199	216	241	259	263	248	222	194			
50	161	179	206	226	232	223	201	180	178	199	230	251	254	238	208	174			
55	138	161	192	215	222	211	186	160	157	182	217	241	245	227	193	153			
60	114	143	178	204	210	198	170	139	134	164	204	230	235	215	177	132			
65	89.7	125	164	191	198	185	154	118	110	146	191	219	224	202	162	111			
70	65.5	107	150	179	186	172	138	97.1	85.3	129	177	207	212	190	146	90.1			
75	42.8	90.5	136	166	174	158	123	77.5	61.4	112	163	194	200	177	131	71.3			
80	23.1	75.1	123	154	161	146	108	59.2	39.0	95.9	149	182	187	163	117	54.0			
85	9.20	62.5	110	142	149	133	95.0	43.3	20.5	81.2	136	169	175	150	103	39.9			
90	3.69	52.0	99.1	130	137	121	83.2	31.5	8.51	68.8	123	156	162	138	91.6	30.3			
95	1.90	42.6	88.5	118	126	110	72.7	23.6	4.66	59.0	112	144	149	126	81.3	23.7			
100	1.61	33.5	77.0	107	114	98.7	62.4	16.6	3.13	51.0	101	132	137	115	72.0	17.1			
105	1.64	24.4	65.4	93.7	101	86.1	51.8	9.97	2.88	42.4	90.7	120	125	104	61.6	10.9			
110	1.88	16.1	53.9	80.6	87.3	73.5	41.5	7.53	3.06	33.8	79.1	107	112	91.0	51.3	9.35			
115	2.41	13.5	42.3	67.5	73.8	61.1	31.2	6.95	3.55	25.4	67.4	93.3	97.9	78.1	41.0	8.89			
120	2.96	12.0	31.1	54.4	60.3	48.6	21.7	6.77	4.15	18.3	55.6	79.5	83.7	65.2	30.7	8.84			
125	3.43	11.0	24.1	41.3	46.8	36.2	18.5	6.69	4.61	16.5	43.8	65.6	69.3	52.2	23.4	8.82			
130	3.78	10.2	20.9	30.2	33.9	27.1	16.4	6.64	5.11	14.9	32.3	51.7	55.1	39.4	20.8	8.80			
135	4.08	9.47	18.3	26.0	28.1	23.4	14.7	6.60	5.56	13.9	25.8	38.2	41.0	29.9	18.7	8.73			
140	4.44	8.77	16.0	22.2	24.0	20.2	13.2	6.51	6.12	13.0	22.4	30.2	31.7	26.0	17.0	8.63			
145	5.04	8.17	13.9	18.8	20.2	17.4	11.8	6.44	6.52	12.2	19.5	25.9	27.1	22.5	15.4	8.51			
150	5.53	7.61	12.0	15.8	16.9	14.8	10.5	6.51	6.88	11.9	17.0	21.2	23.0	19.4	13.8	8.35			
155	5.48	7.41	10.3	13.0	13.9	12.4	9.24	6.11	6.56	10.7	15.4	17.7	19.3	16.6	12.4	8.16			
160	5.09	7.13	8.86	10.7	11.3	10.4	7.48	5.41	5.70	8.51	13.3	14.5	16.0	14.0	11.0	8.03			
165	5.10	6.96	8.15	8.81	9.22	8.18	5.54	5.08	5.32	6.14	9.50	12.9	13.1	11.8	9.78	7.71			
170	5.18	6.37	7.80	8.17	7.81	5.21	5.17	5.18	5.41	5.66	6.17	9.67	7.38	9.88	8.78	6.30			
175	6.43	6.86	7.66	7.16	5.18	5.22	5.80	6.55	6.80	6.19	5.48	5.51	8.73	8.66	8.33	6.86			
180	8.53	8.48	7.30	5.55	5.27	7.38	8.20	8.41	8.53	8.48	7.29	5.54	5.29	7.45	8.21	8.41			

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