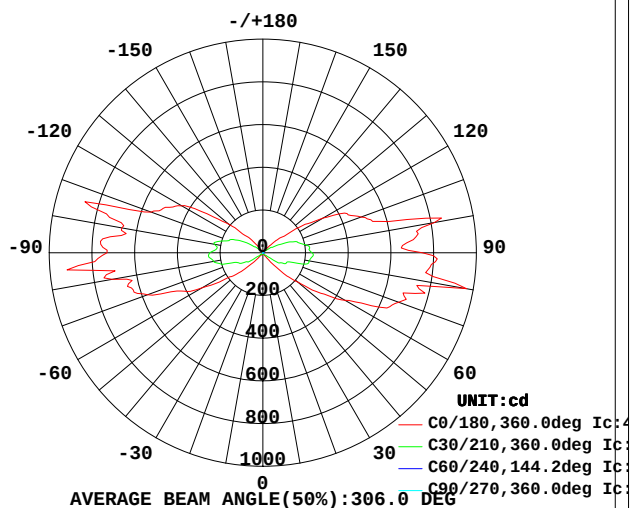


LUMINAIRE PHOTOMETRIC TEST REPORT

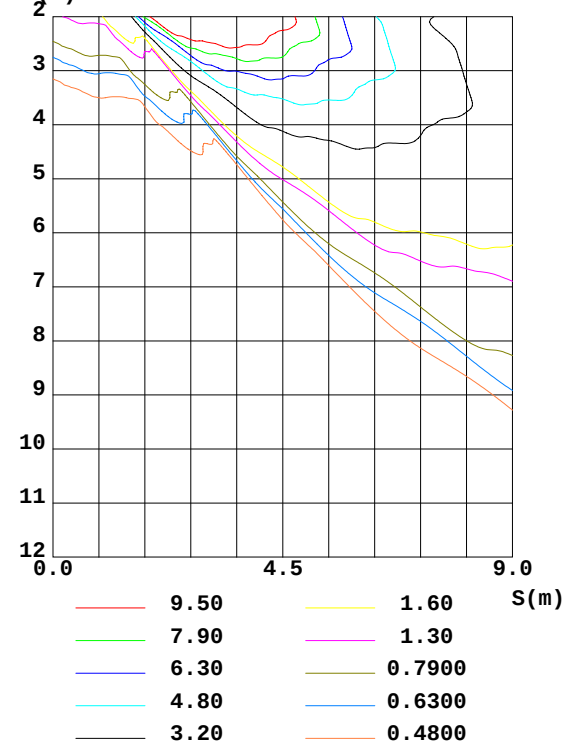
Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm		
NAME: ASD-LCLR-MV-2A-18BK-EM	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.82 lm/W			
MODEL	ASD-LCLR-MV-2A-18BK-EM	I _{max} (cd)	1029	S/MH(C0/180)	11.86
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.64
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1529.2	η UP, DN(C0-180)	23.5, 26.0
NOMINAL FLUX(lm)	1529.2	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	24.8, 25.8
LAMPS INSIDE	1	η up(%)	48.2	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	51.8	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [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	5.806	3.655	1.984	3.443	5.022	2.838	2.207	3.731	0- 10	0.3263	0.3263	0.02,0.02
20	7.012	4.484	1.756	4.148	6.001	2.926	2.253	4.752	10- 20	1.104	1.430	0.09,0.09
30	14.02	5.412	1.745	4.611	7.504	3.262	2.365	5.714	20- 30	2.165	3.595	0.24,0.24
40	56.74	6.568	1.760	9.836	16.86	3.593	2.453	10.65	30- 40	5.085	8.680	0.57,0.57
50	214.3	8.938	1.825	13.56	144.4	4.692	2.550	15.81	40- 50	22.32	31.00	2.03,2.03
60	445.1	14.79	1.876	66.51	326.8	11.46	2.650	62.55	50- 60	74.75	105.8	6.92,6.92
70	677.1	16.95	1.876	104.7	575.7	12.01	2.754	118.6	60- 70	157.8	263.6	17.2,17.2
80	967.6	17.84	1.864	183.9	716.4	14.03	2.811	188.2	70- 80	242.5	506.1	33.1,33.1
90	747.3	18.24	1.864	187.1	730.3	19.66	2.815	185.4	80- 90	285.7	791.7	51.8,51.8
100	816.0	17.65	1.845	154.5	670.9	13.96	2.804	169.5	90-100	265.0	1057	69.1,69.1
110	490.4	15.82	1.795	144.7	556.8	12.71	2.742	135.9	100-110	226.6	1283	83.9,83.9
120	325.3	13.35	1.676	61.61	439.9	10.84	2.646	51.45	110-120	144.6	1428	93.4,93.4
130	112.1	8.097	1.491	14.96	208.3	7.248	2.441	17.02	120-130	71.77	1500	98.1,98.1
140	17.37	5.795	1.490	5.061	61.77	3.314	2.234	10.69	130-140	21.51	1521	99.5,99.5
150	7.638	4.952	1.483	3.431	12.76	2.569	2.134	6.221	140-150	4.859	1526	99.8,99.8
160	6.012	3.908	1.463	3.065	5.969	2.273	2.060	5.066	150-160	1.942	1528	99.9,99.9
170	4.857	3.142	1.637	3.027	4.756	2.318	2.010	3.921	160-170	0.9839	1529	100,100
180	4.491	2.638	1.960	3.216	4.514	2.619	1.956	3.224	170-180	0.2999	1529	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

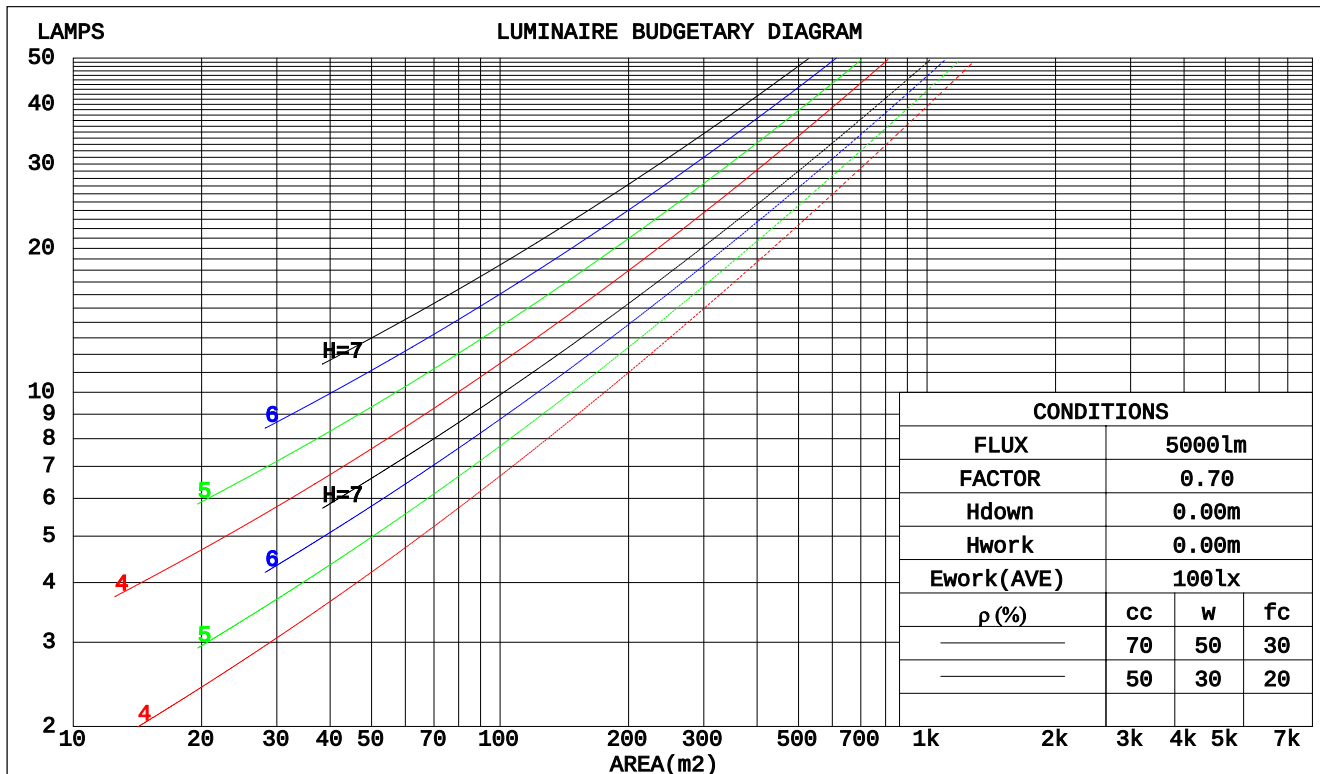
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm		
NAME: ASD-LCLR-MV-2A-18BK-EM	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

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	1.08	1.08	1.08	.99	.99	.99	.84	.84	.84	.70	.70	.70	.58	.58	.58	.52
1.0	.80	.73	.66	.73	.66	.60	.60	.54	.49	.47	.43	.39	.36	.33	.30	.24
2.0	.65	.55	.47	.59	.50	.43	.48	.40	.34	.37	.31	.26	.27	.23	.19	.13
3.0	.55	.44	.36	.50	.40	.32	.39	.32	.25	.30	.24	.19	.21	.17	.13	.08
4.0	.47	.36	.28	.43	.33	.25	.34	.26	.20	.26	.19	.14	.18	.13	.09	.05
5.0	.41	.31	.23	.37	.28	.21	.30	.22	.16	.22	.16	.11	.16	.11	.07	.03
6.0	.37	.26	.19	.33	.24	.17	.26	.19	.13	.20	.14	.09	.14	.09	.06	.02
7.0	.33	.23	.16	.29	.21	.15	.23	.16	.11	.18	.12	.08	.13	.08	.04	.02
8.0	.29	.20	.14	.27	.18	.12	.21	.14	.10	.16	.11	.07	.12	.07	.04	.01
9.0	.27	.18	.12	.24	.16	.11	.19	.13	.08	.15	.10	.06	.11	.06	.03	.01
10.0	.24	.16	.11	.22	.15	.09	.18	.12	.07	.14	.09	.05	.10	.06	.03	.01



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm					
NAME: ASD-LCLR-MV-2A-18BK-EM			TYPE:LED		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting corp			SUR.:		PROTECTION ANGLE:

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	.541	.308	.097	.519	.296	.094	.477	.274	.087	.438	.253	.081	.403	.234	.075		
2.0	.421	.231	.071	.401	.221	.068	.362	.201	.063	.327	.184	.057	.295	.167	.053		
3.0	.351	.187	.056	.333	.178	.054	.298	.161	.049	.266	.146	.045	.236	.130	.040		
4.0	.303	.158	.046	.286	.150	.044	.254	.135	.040	.225	.121	.036	.197	.107	.033		
5.0	.268	.136	.039	.252	.129	.038	.223	.116	.034	.195	.103	.031	.170	.091	.027		
6.0	.240	.120	.034	.225	.114	.033	.198	.102	.030	.173	.090	.026	.150	.079	.023		
7.0	.217	.107	.030	.204	.102	.029	.179	.091	.026	.156	.080	.023	.134	.069	.020		
8.0	.199	.097	.027	.187	.092	.026	.163	.082	.023	.142	.072	.021	.121	.062	.018		
9.0	.183	.089	.025	.172	.084	.024	.150	.074	.021	.130	.065	.019	.111	.056	.016		
10.0	.170	.081	.023	.159	.077	.021	.139	.068	.019	.120	.060	.017	.102	.051	.015		

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	.558	.558	.558	.477	.477	.477	.325	.325	.325	.187	.187	.187	.060	.060	.060	
1.0	.567	.525	.487	.485	.450	.419	.332	.310	.290	.191	.179	.168	.061	.058	.054	
2.0	.562	.504	.455	.482	.434	.394	.330	.300	.275	.190	.175	.161	.061	.057	.052	
3.0	.555	.490	.438	.476	.423	.380	.327	.294	.266	.189	.171	.157	.061	.056	.051	
4.0	.547	.479	.427	.469	.414	.371	.323	.288	.261	.187	.169	.154	.060	.055	.051	
5.0	.538	.470	.420	.462	.407	.365	.318	.284	.258	.184	.167	.153	.059	.054	.050	
6.0	.530	.463	.414	.456	.401	.361	.314	.281	.255	.182	.165	.152	.059	.054	.050	
7.0	.522	.457	.411	.449	.396	.358	.310	.278	.254	.180	.164	.151	.058	.054	.050	
8.0	.515	.451	.408	.443	.392	.356	.307	.275	.252	.178	.162	.150	.058	.053	.050	
9.0	.508	.447	.406	.438	.388	.354	.303	.273	.251	.177	.161	.150	.057	.053	.050	
10.0	.502	.443	.404	.433	.385	.352	.300	.271	.250	.175	.160	.149	.057	.053	.050	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm											
NAME: ASD-LCLR-MV-2A-18BK-EM					TYPE:LED			WEIGHT:			
SPEC.:5000K					DIM.:			SERIAL No.:			
MFR.: ASD Lighting corp					SUR.:			PROTECTION 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		17.2	18.5	18.1	19.4	20.5	-10.9	-9.7	-10.0	-8.8	-7.6
3H		24.0	25.1	24.9	26.0	27.3	-9.2	-8.1	-8.3	-7.1	-5.9
4H		27.4	28.4	28.3	29.4	30.6	-8.2	-7.1	-7.3	-6.2	-5.0
6H		30.7	31.8	31.6	32.7	34.0	-7.0	-6.0	-6.1	-5.0	-3.8
8H		32.1	33.1	33.0	34.1	35.3	-6.3	-5.3	-5.4	-4.3	-3.1
12H		33.6	34.6	34.5	35.5	36.8	-5.4	-4.5	-4.5	-3.5	-2.2
4H	2H	16.8	17.9	17.7	18.8	20.0	3.7	4.8	4.6	5.7	6.9
	3H	23.7	24.7	24.6	25.6	26.9	3.5	4.4	4.4	5.4	6.7
	4H	27.5	28.4	28.5	29.4	30.7	3.4	4.3	4.3	5.3	6.5
	6H	31.2	32.1	32.2	33.0	34.3	3.4	4.2	4.3	5.2	6.4
	8H	32.8	33.6	33.8	34.6	35.9	3.4	4.1	4.3	5.1	6.4
	12H	34.5	35.2	35.5	36.2	37.5	3.4	4.1	4.4	5.1	6.4
8H	4H	27.3	28.1	28.3	29.1	30.4	13.3	14.0	14.2	15.0	16.3
	6H	31.2	31.8	32.1	32.8	34.2	13.1	13.8	14.1	14.8	16.1
	8H	32.9	33.5	33.9	34.5	35.9	13.0	13.6	14.0	14.7	16.0
	12H	34.9	35.5	35.9	36.5	37.8	13.0	13.5	14.0	14.5	15.9
12H	4H	27.2	27.9	28.2	28.9	30.3	16.7	17.4	17.6	18.4	19.7
	6H	31.1	31.7	32.1	32.7	34.0	16.7	17.3	17.7	18.3	19.6
	8H	32.8	33.4	33.8	34.4	35.8	16.6	17.2	17.6	18.2	19.5
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.4				
1.5H		+ 0.2 / - 0.2					+ 1.0 / - 0.3				
2.0H		+ 0.7 / - 0.6					+ 1.4 / - 2.3				

CIE Pub.117 Corrected 1529 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.5)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm		
NAME: ASD-LCLR-MV-2A-18BK-EM	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

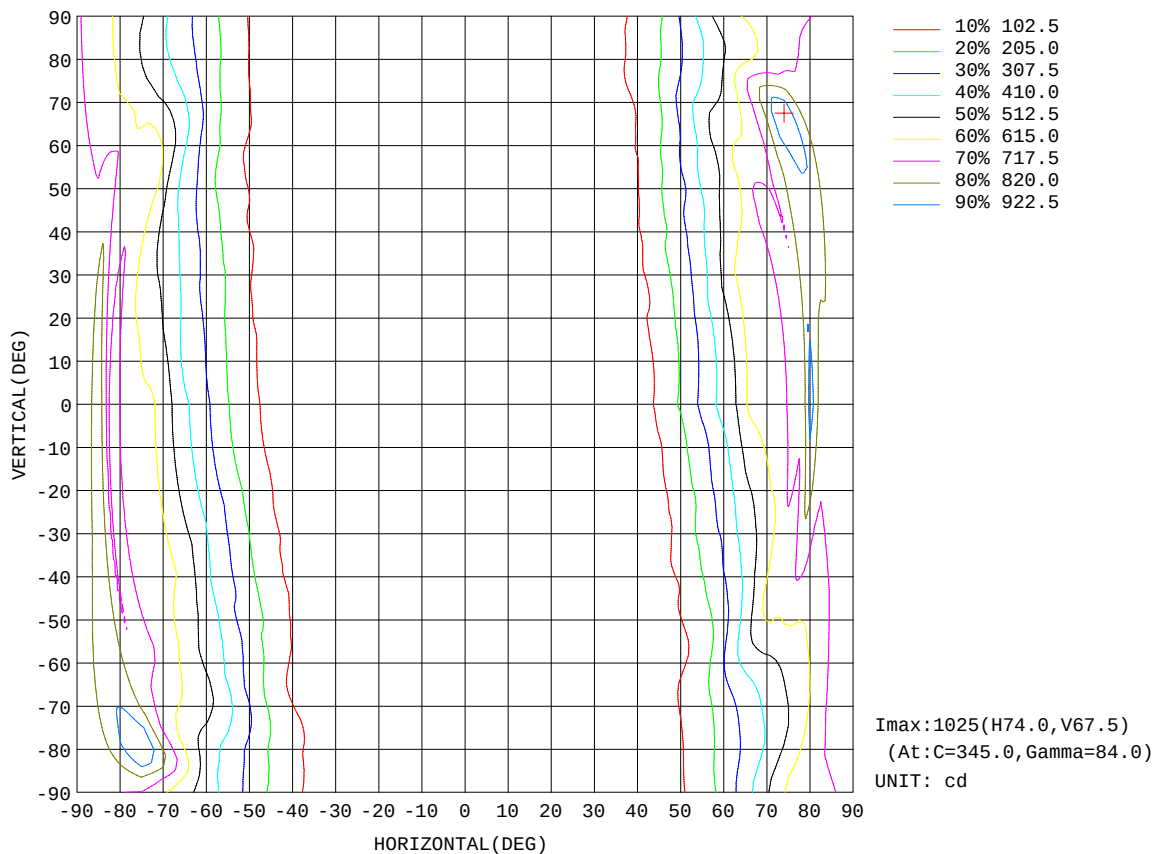
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	31	17	9	29	16	8	26	15	8	1
0.80	38	22	13	35	21	12	31	19	11	2
1.00	44	27	17	41	26	16	35	25	14	3
1.25	50	33	22	47	31	20	40	27	18	5
1.50	55	38	27	51	36	25	44	31	22	7
2.00	63	47	35	58	44	33	49	37	28	10
2.50	69	54	42	64	50	39	53	42	33	14
3.00	74	59	48	68	55	44	57	46	38	17
4.00	80	67	57	73	62	53	61	52	45	21
5.00	84	73	63	77	67	59	65	57	50	25
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm		
NAME: ASD-LCLR-MV-2A-18BK-EM	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

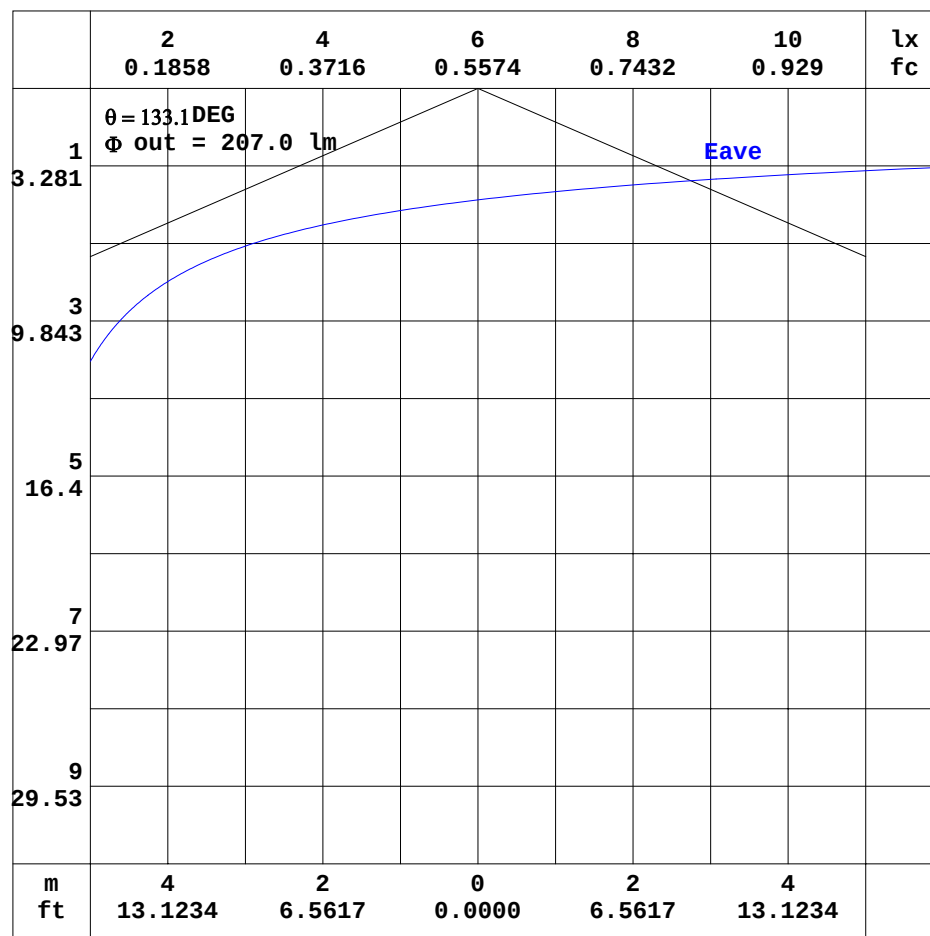


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm		
NAME: ASD-LCLR-MV-2A-18BK-EM	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



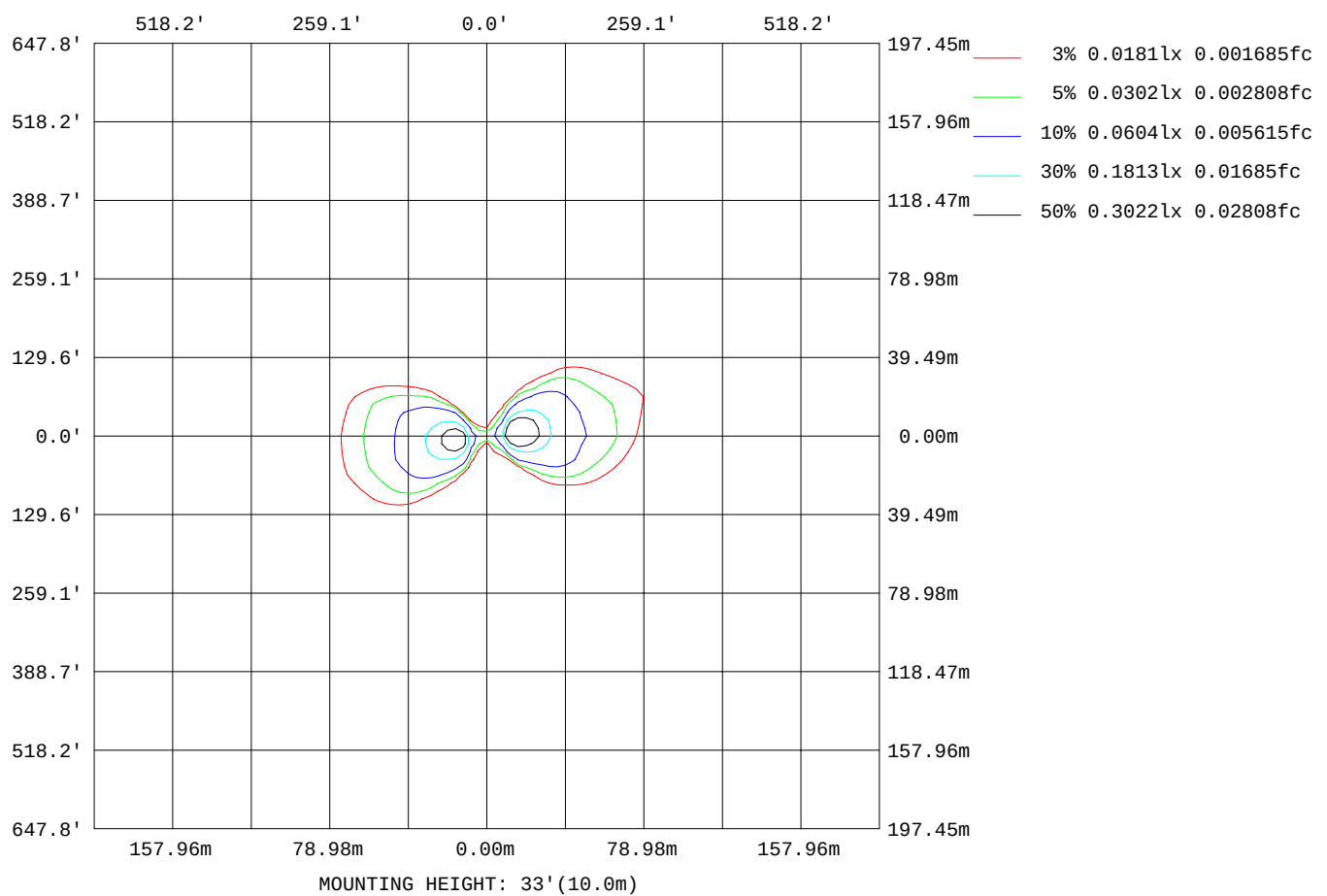
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm		
NAME: ASD-LCLR-MV-2A-18BK-EM	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm		
NAME: ASD-LCLR-MV-2A-18BK-EM	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

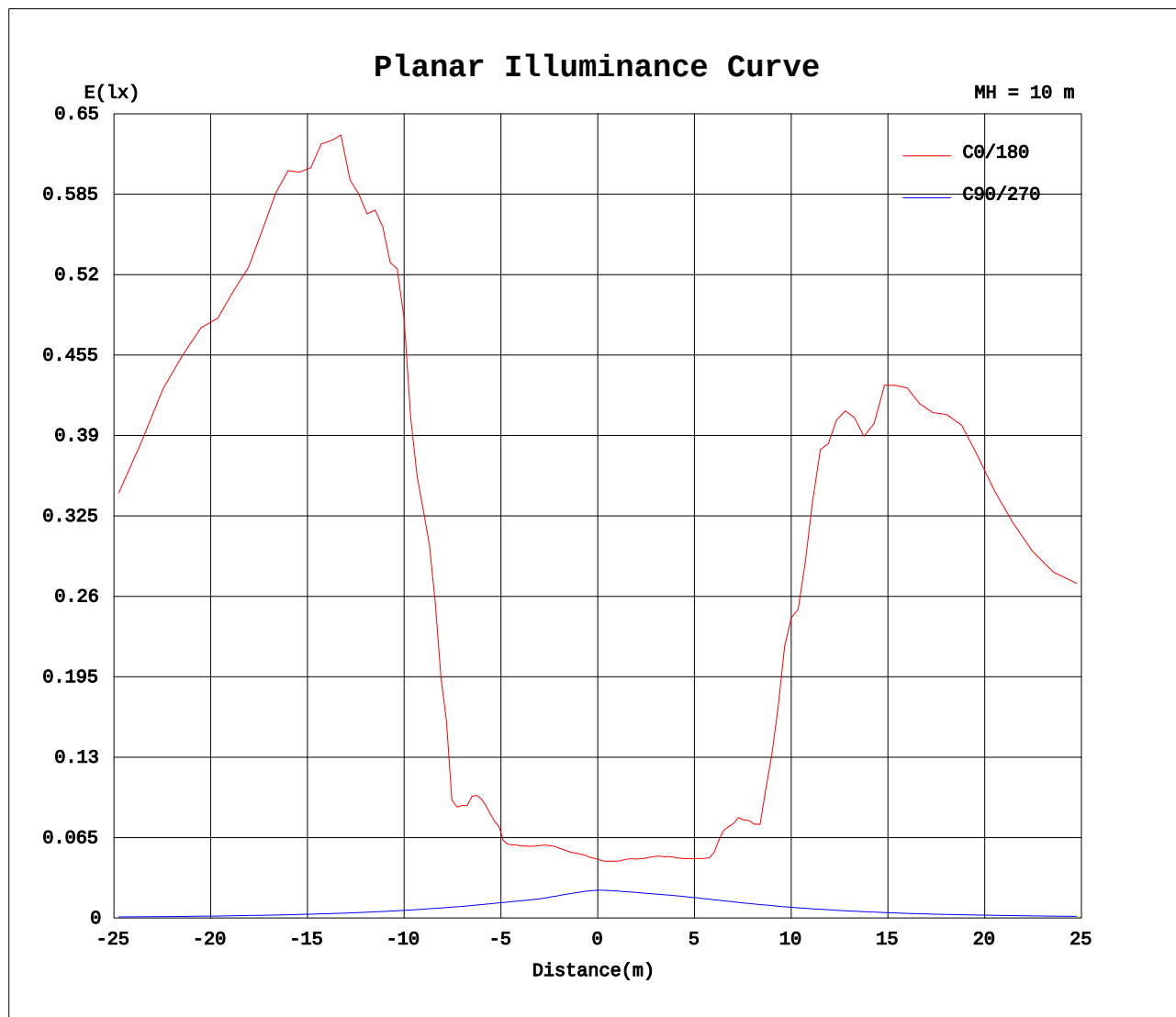
AvgL	cd/m2
L_0~180(65)av	12149
L_0~180(75)av	26562
L_0~180(85)av	97866
L_90~270(65)av	54
L_90~270(75)av	90
L_90~270(85)av	269
L_45(65)av	1319
L_45(75)av	2924
L_45(85)av	12003

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1531A P:18.03W PF:0.9817 Lamp Flux:1529.2x1 lm																		
NAME: ASD-LCLR-MV-2A-18BK-EM									TYPE:LED					WEIGHT:				
SPEC.:5000K									DIM.:					SERIAL No.:				
MFR.: ASD Lighting corp									SUR.:					PROTECTION ANGLE:				

Table--1

UNIT: cd

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	4.77	4.28	3.51	2.91	2.46	2.27	2.26	2.30	2.63	3.07	3.86	4.49	4.77	4.28	3.51	2.91	2.46	2.27	2.26
5	5.22	4.76	3.90	3.23	2.69	2.27	2.15	2.19	2.60	3.18	3.94	4.58	4.66	4.17	3.46	2.80	2.31	2.15	2.24
10	5.81	5.17	4.35	3.66	2.92	2.28	1.98	2.08	2.73	3.44	4.37	5.06	5.02	4.51	3.69	2.84	2.15	1.98	2.21
15	6.56	5.94	4.92	3.99	3.23	2.34	1.82	2.03	2.73	3.71	4.87	5.65	5.46	4.89	3.87	2.84	2.13	1.84	2.21
20	7.01	6.39	5.44	4.48	3.47	2.39	1.76	2.00	2.88	4.15	5.46	6.25	6.00	5.41	4.31	2.93	2.05	1.74	2.25
25	8.04	7.14	5.96	4.99	3.71	2.47	1.75	2.07	3.15	4.24	5.68	6.67	6.47	5.73	4.48	3.24	2.09	1.72	2.31
30	14.0	10.5	6.80	5.41	4.03	2.55	1.74	2.16	3.23	4.61	6.41	7.82	7.50	6.51	4.78	3.26	2.20	1.72	2.36
35	16.6	15.9	11.2	5.94	4.41	2.62	1.74	2.30	3.32	5.22	12.0	14.6	13.9	12.3	5.40	3.38	2.37	1.75	2.41
40	56.7	17.3	14.0	6.57	4.81	2.71	1.76	2.46	3.50	9.84	15.2	17.4	16.9	15.6	10.3	3.59	2.45	1.79	2.45
45	137	53.9	16.8	7.28	5.16	2.82	1.78	2.57	3.76	12.4	43.3	68.8	68.6	45.4	12.8	3.94	2.48	1.79	2.50
50	214	123	18.9	8.94	5.42	2.92	1.83	2.58	4.16	13.6	84.2	149	144	97.0	14.8	4.69	2.60	1.79	2.55
55	332	195	59.0	12.1	5.51	2.98	1.85	2.42	6.29	30.7	136	222	212	146	41.3	8.15	2.56	1.79	2.60
60	445	280	95.1	14.8	5.68	3.05	1.88	2.43	8.75	66.5	205	337	327	231	85.3	11.5	2.56	1.79	2.65
65	603	351	119	17.0	5.90	3.08	1.88	2.45	11.3	96.8	287	443	424	299	118	12.6	2.60	1.79	2.71
70	677	449	125	17.0	6.10	3.13	1.88	2.47	12.3	105	368	575	576	388	132	12.0	2.66	1.79	2.75
75	738	603	206	17.6	6.28	3.16	1.87	2.48	11.4	132	434	640	637	468	204	12.9	2.70	1.79	2.78
80	968	546	220	17.8	6.38	3.20	1.86	2.46	11.8	184	512	715	716	683	234	14.0	2.75	1.79	2.81
85	785	496	231	18.1	6.42	3.19	1.86	2.44	11.9	191	461	804	921	552	253	18.7	2.75	1.78	2.82
90	747	636	230	18.2	6.42	3.19	1.86	2.40	12.0	187	462	713	730	521	249	19.7	2.74	1.78	2.82
95	707	498	219	17.7	6.36	3.17	1.85	2.38	12.2	166	573	660	753	629	218	16.4	2.72	1.77	2.82
100	816	452	208	17.6	6.25	3.14	1.84	2.33	13.3	154	457	679	671	481	230	14.0	2.69	1.76	2.80
105	568	439	177	17.0	6.10	3.10	1.82	2.31	12.6	162	408	726	831	445	209	12.6	2.62	1.76	2.77
110	490	362	150	15.8	5.92	3.05	1.79	2.31	11.7	145	400	509	557	428	169	12.7	2.56	1.76	2.74
115	435	274	98.9	15.3	5.74	3.00	1.77	2.27	10.8	101	291	449	504	340	142	11.7	2.49	1.75	2.71
120	325	219	52.1	13.4	5.55	2.95	1.68	1.99	9.49	61.6	214	392	440	266	103	10.8	2.44	1.65	2.65
125	208	127	29.3	11.3	5.35	2.88	1.57	1.34	6.40	42.2	162	297	320	207	51.7	7.92	2.37	1.47	2.57
130	112	86.6	16.4	8.10	4.96	2.78	1.49	1.22	3.45	15.0	105	197	208	126	31.7	7.25	2.16	1.36	2.44
135	50.5	22.5	14.2	6.40	4.66	2.69	1.49	1.43	2.54	11.3	60.6	112	112	83.2	13.9	4.12	1.85	1.34	2.33
140	17.4	15.1	9.44	5.80	4.42	2.56	1.49	1.44	2.11	5.06	15.7	50.1	61.8	21.1	11.8	3.31	1.42	1.39	2.23
145	14.3	11.0	6.50	5.28	4.06	2.45	1.49	1.36	1.99	3.85	10.8	16.3	17.5	14.0	6.88	2.72	1.39	1.40	2.18
150	7.64	6.82	5.74	4.95	3.71	2.37	1.48	1.33	2.01	3.43	5.50	11.0	12.8	7.73	4.56	2.57	1.42	1.40	2.13
155	6.56	5.97	5.33	4.48	3.41	2.25	1.46	1.36	1.92	3.38	4.91	5.88	6.72	5.52	3.84	2.46	1.37	1.43	2.09
160	6.01	5.55	4.76	3.91	3.17	2.15	1.46	1.42	1.95	3.07	4.49	5.45	5.97	5.08	3.72	2.27	1.41	1.43	2.06
165	5.37	4.87	4.12	3.49	2.89	2.08	1.51	1.57	2.08	2.97	3.93	4.80	5.32	4.61	3.30	2.16	1.56	1.51	2.03
170	4.86	4.39	3.74	3.14	2.63	2.00	1.64	1.80	2.26	3.03	3.84	4.37	4.76	4.14	3.21	2.32	1.75	1.62	2.01
175	4.53	4.04	3.39	2.83	2.38	1.95	1.80	2.06	2.51	3.14	3.82	4.35	4.58	4.02	3.22	2.48	2.00	1.78	2.01
180	4.49	3.98	3.23	2.64	2.20	1.92	1.96	2.26	2.67	3.22	3.91	4.41	4.51	3.97	3.25	2.62	2.19	1.89	1.96

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 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-14

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 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

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SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	2.30	2.63	3.07	3.86	4.49													
5	2.40	2.85	3.33	4.21	4.84													
10	2.63	3.15	3.73	4.60	5.23													
15	2.82	3.51	4.16	5.25	5.93													
20	3.12	3.84	4.75	5.67	6.36													
25	3.29	4.37	5.08	6.25	7.22													
30	3.50	4.75	5.71	9.80	12.9													
35	3.78	5.13	6.56	15.3	16.0													
40	4.11	5.56	10.7	15.8	48.0													
45	4.47	6.14	14.0	50.0	106													
50	4.78	6.80	15.8	106	189													
55	4.92	9.10	30.3	181	288													
60	4.98	12.3	62.6	249	424													
65	5.18	14.3	96.7	319	577													
70	5.36	15.1	119	423	657													
75	5.53	15.7	140	508	773													
80	5.65	15.9	188	509	774													
85	5.73	16.5	190	501	885													
90	5.78	16.3	185	583	700													
95	5.78	16.4	170	507	686													
100	5.74	16.9	170	432	792													
105	5.68	16.4	168	433	570													
110	5.59	15.4	136	355	488													
115	5.47	14.5	90.4	257	422													
120	5.38	13.0	51.5	194	317													
125	5.28	10.9	22.9	134	219													
130	4.94	7.67	17.0	83.3	114													
135	4.69	6.73	14.8	25.0	53.6													
140	4.48	6.08	10.7	15.7	17.9													
145	4.16	5.56	7.08	11.9	14.7													
150	3.76	5.21	6.22	7.42	8.44													
155	3.38	4.69	5.56	6.48	7.05													
160	3.08	4.17	5.07	5.92	6.34													
165	2.90	3.65	4.45	5.12	5.74													
170	2.72	3.30	3.92	4.61	5.04													
175	2.50	2.98	3.53	4.16	4.62													
180	2.29	2.69	3.22	3.92	4.39													

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