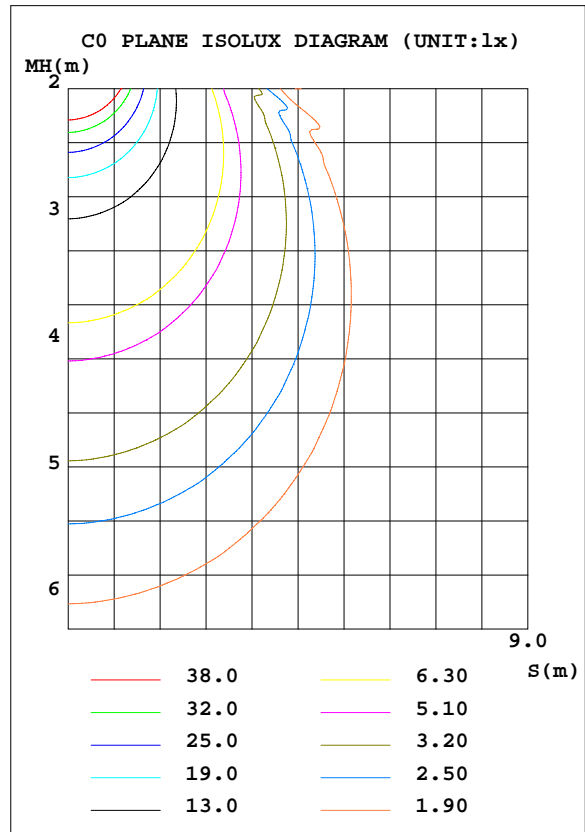
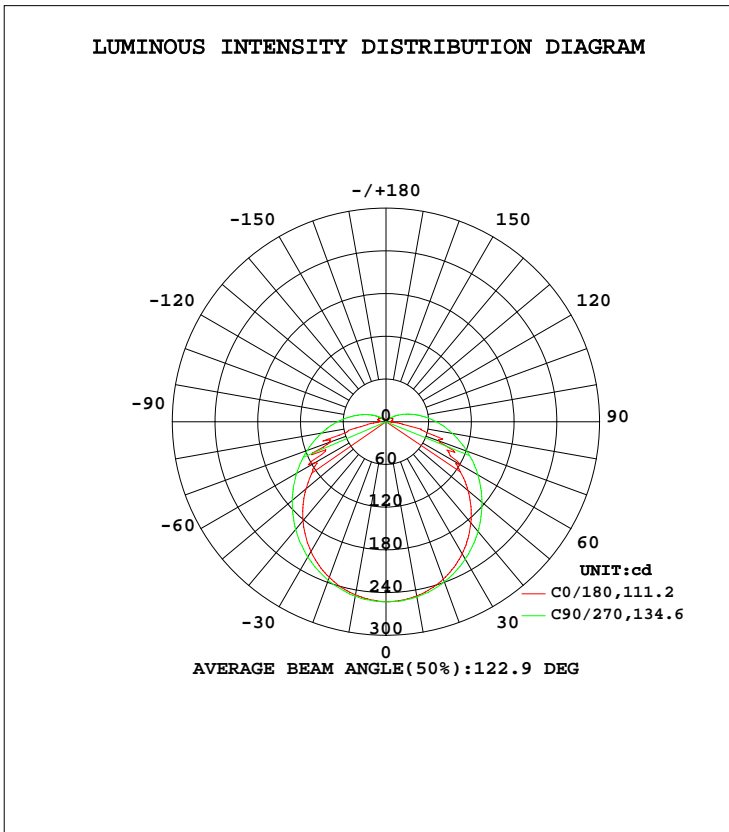


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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: 60.24 lm/W			
MODEL	ASD-LWS-11-D15CC-XX	Imax(cd)	253.5	S/MH(C0/180)	1.26
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	950.04	$\eta$ UP, DN(C0-180)	5.1,44.5
NOMINAL FLUX(lm)	950.039	CIE CLASS	SEMI-D.	$\eta$ UP, DN(C180-360)	5.2,45.2
LAMPS INSIDE	1	$\eta$ up(%)	10.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	$\eta$ down(%)	89.7	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

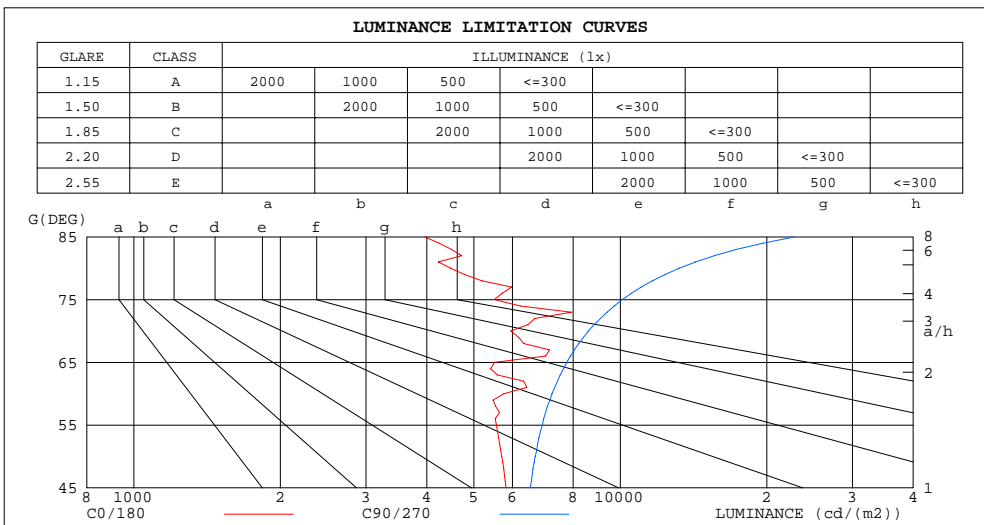
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	246.7	248.0	248.7	247.9	248.3	249.9	250.0	247.7	0- 10	23.92	23.92	2.52,2.52
20	232.5	234.3	237.3	235.4	235.2	237.2	239.2	235.7	10- 20	68.68	92.60	9.75,9.75
30	210.4	214.0	219.7	215.9	214.1	217.7	222.7	216.5	20- 30	104.7	197.3	20.8,20.8
40	181.4	187.8	197.2	190.4	185.5	192.4	201.1	191.3	30- 40	127.9	325.2	34.2,34.2
50	146.7	157.3	171.8	160.6	150.5	162.5	176.1	162.3	40- 50	136.1	461.3	48.6,48.6
60	115.3	125.0	144.7	129.2	120.8	130.1	148.9	130.7	50- 60	129.7	591.0	62.2,62.2
70	81.49	93.73	117.6	98.16	80.08	98.09	120.9	99.73	60- 70	113.5	704.5	74.2,74.2
80	31.11	67.77	91.82	70.23	30.62	69.40	94.82	71.84	70- 80	88.54	793.1	83.5,83.5
90	9.848	44.44	68.11	47.39	6.759	46.10	70.70	48.92	80- 90	59.08	852.1	89.7,89.7
100	10.77	29.37	46.86	30.43	8.977	28.96	49.34	31.87	90-100	39.21	891.4	93.8,93.8
110	11.43	18.09	29.77	18.21	9.897	17.11	31.56	19.37	100-110	26.06	917.4	96.6,96.6
120	10.72	9.685	16.88	10.04	9.654	9.449	17.97	10.50	110-120	15.64	933.0	98.2,98.2
130	7.589	5.020	7.905	5.329	8.263	4.985	8.348	5.190	120-130	8.288	941.3	99.1,99.1
140	5.292	4.271	2.841	3.570	6.833	3.551	2.739	3.280	130-140	4.164	945.5	99.5,99.5
150	4.050	2.809	1.563	4.619	4.216	2.993	1.431	2.718	140-150	2.218	947.7	99.8,99.8
160	3.444	2.990	1.687	3.888	3.530	2.906	1.822	2.100	150-160	1.388	949.1	99.9,99.9
170	2.942	2.632	1.578	2.685	3.292	2.684	1.669	1.482	160-170	0.7476	949.9	100,100
180	0.5107	0.4158	0	0	0.5074	0.4618	0.3900	0.3895	170-180	0.1839	950.0	100,100
DEG	LUMINOUS INTENSITY:cd Less than 25% Percent = 14.6 %								UNIT:lm			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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	3955	22849
80	4479	13219
75	5506	10095
70	5957	8595
65	5517	7757
60	5764	7235
55	5563	6914
50	5704	6682
45	5822	6530

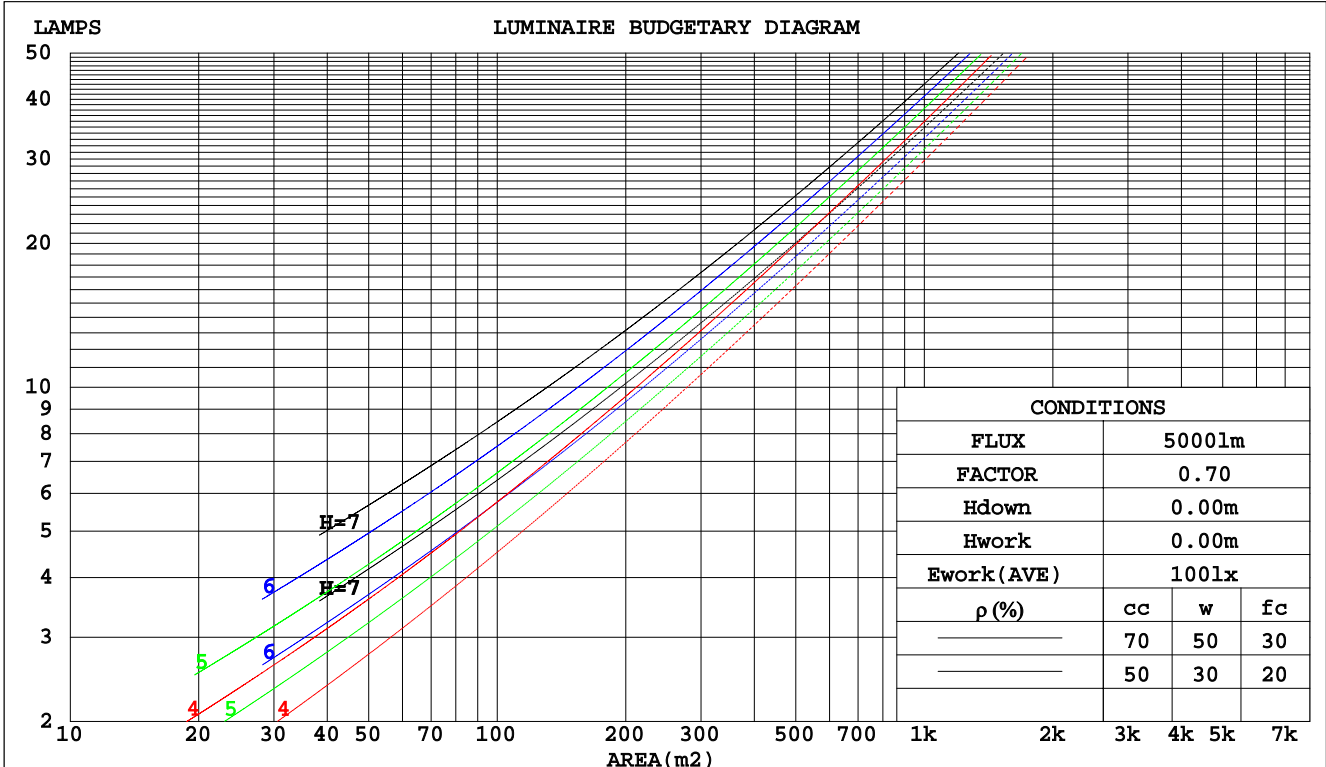
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio      Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.05	1.05	1.05	.99	.99	.99	.93	.93	.93	.90
1.0	.98	.93	.89	.95	.90	.86	.89	.85	.81	.83	.80	.77	.78	.75	.73	.70
2.0	.84	.77	.70	.82	.75	.69	.76	.70	.65	.71	.67	.62	.67	.63	.60	.57
3.0	.73	.65	.58	.71	.63	.56	.67	.60	.54	.62	.57	.52	.58	.54	.50	.47
4.0	.65	.55	.48	.63	.54	.47	.59	.51	.45	.55	.49	.44	.52	.46	.42	.39
5.0	.58	.48	.41	.56	.47	.40	.52	.45	.39	.49	.43	.38	.46	.41	.36	.34
6.0	.52	.42	.36	.50	.41	.35	.47	.40	.34	.45	.38	.33	.42	.36	.32	.29
7.0	.47	.38	.31	.45	.37	.31	.43	.35	.30	.40	.34	.29	.38	.32	.28	.26
8.0	.42	.34	.28	.41	.33	.27	.39	.32	.27	.37	.31	.26	.35	.29	.25	.23
9.0	.39	.31	.25	.38	.30	.24	.36	.29	.24	.34	.28	.23	.32	.27	.23	.21
10.0	.36	.28	.22	.35	.27	.22	.33	.26	.22	.32	.25	.21	.30	.24	.20	.19



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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

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	.369	.210	.067	.359	.205	.065	.340	.195	.062	.322	.186	.060	.305	.177	.057	
2.0	.325	.178	.055	.316	.174	.054	.299	.166	.052	.283	.159	.050	.268	.152	.048	
3.0	.292	.155	.046	.283	.152	.046	.268	.145	.044	.253	.139	.043	.240	.133	.041	
4.0	.264	.137	.040	.256	.134	.040	.242	.128	.038	.229	.123	.037	.217	.118	.036	
5.0	.241	.123	.036	.234	.120	.035	.221	.115	.034	.209	.110	.033	.198	.106	.032	
6.0	.221	.111	.032	.215	.109	.031	.203	.104	.030	.193	.100	.029	.183	.096	.029	
7.0	.204	.101	.029	.199	.099	.028	.188	.095	.027	.179	.092	.027	.169	.088	.026	
8.0	.190	.093	.026	.185	.091	.026	.175	.088	.025	.166	.084	.024	.158	.081	.024	
9.0	.177	.086	.024	.172	.084	.024	.164	.081	.023	.156	.078	.022	.148	.075	.022	
10.0	.166	.080	.022	.162	.078	.022	.154	.075	.021	.146	.073	.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	.269	.269	.269	.230	.230	.230	.157	.157	.157	.090	.090	.090	.029	.029	.029	
1.0	.264	.235	.209	.226	.201	.180	.154	.139	.124	.089	.080	.072	.028	.026	.023	
2.0	.256	.211	.174	.220	.182	.150	.151	.126	.105	.087	.073	.061	.028	.024	.020	
3.0	.249	.195	.151	.213	.168	.131	.146	.117	.092	.085	.068	.054	.027	.022	.018	
4.0	.241	.182	.137	.207	.157	.119	.142	.109	.084	.082	.064	.049	.026	.021	.016	
5.0	.233	.172	.126	.200	.149	.110	.138	.104	.078	.080	.061	.046	.026	.020	.015	
6.0	.226	.164	.119	.194	.142	.104	.134	.099	.073	.078	.058	.044	.025	.019	.014	
7.0	.219	.157	.114	.188	.136	.099	.130	.095	.070	.076	.056	.042	.024	.018	.014	
8.0	.212	.151	.110	.182	.131	.096	.126	.092	.068	.073	.054	.040	.024	.018	.013	
9.0	.206	.146	.106	.177	.127	.093	.123	.089	.066	.072	.053	.039	.023	.017	.013	
10.0	.200	.142	.104	.172	.123	.091	.120	.087	.064	.070	.051	.038	.023	.017	.013	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm										
NAME: ASD-LWS-11-D15CC-XX 5000K					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	18.0	19.5	18.4	19.8	20.3	19.0	20.5	19.4	20.9	21.3
3H	19.9	21.3	20.4	21.7	22.2	21.3	22.7	21.8	23.1	23.6
4H	20.9	22.2	21.3	22.6	23.1	22.6	23.9	23.1	24.3	24.8
6H	21.4	22.6	21.9	23.0	23.5	24.0	25.2	24.5	25.7	26.2
8H	21.5	22.7	22.0	23.2	23.7	24.7	25.9	25.2	26.4	26.9
12H	21.6	22.7	22.1	23.2	23.7	25.6	26.7	26.1	27.2	27.8
4H 2H	18.8	20.1	19.3	20.5	21.0	19.6	20.9	20.0	21.3	21.8
3H	20.9	22.1	21.4	22.5	23.1	22.1	23.3	22.6	23.7	24.3
4H	22.0	23.0	22.5	23.5	24.1	23.6	24.6	24.1	25.1	25.7
6H	22.6	23.6	23.2	24.1	24.7	25.2	26.1	25.7	26.6	27.2
8H	22.9	23.7	23.4	24.3	24.9	26.1	26.9	26.6	27.5	28.1
12H	23.0	23.8	23.6	24.4	25.0	27.1	27.9	27.7	28.4	29.1
8H 4H	22.6	23.4	23.1	24.0	24.6	23.9	24.8	24.5	25.3	25.9
6H	23.5	24.2	24.1	24.8	25.5	25.8	26.5	26.4	27.1	27.8
8H	23.9	24.5	24.5	25.1	25.8	26.9	27.5	27.5	28.1	28.8
12H	24.2	24.8	24.8	25.4	26.1	28.1	28.7	28.8	29.3	30.0
12H 4H	22.7	23.5	23.3	24.1	24.7	23.9	24.8	24.5	25.3	25.9
6H	23.8	24.5	24.4	25.1	25.7	25.9	26.6	26.5	27.2	27.8
8H	24.3	24.9	25.0	25.5	26.2	27.1	27.7	27.7	28.3	29.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 950.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.2)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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

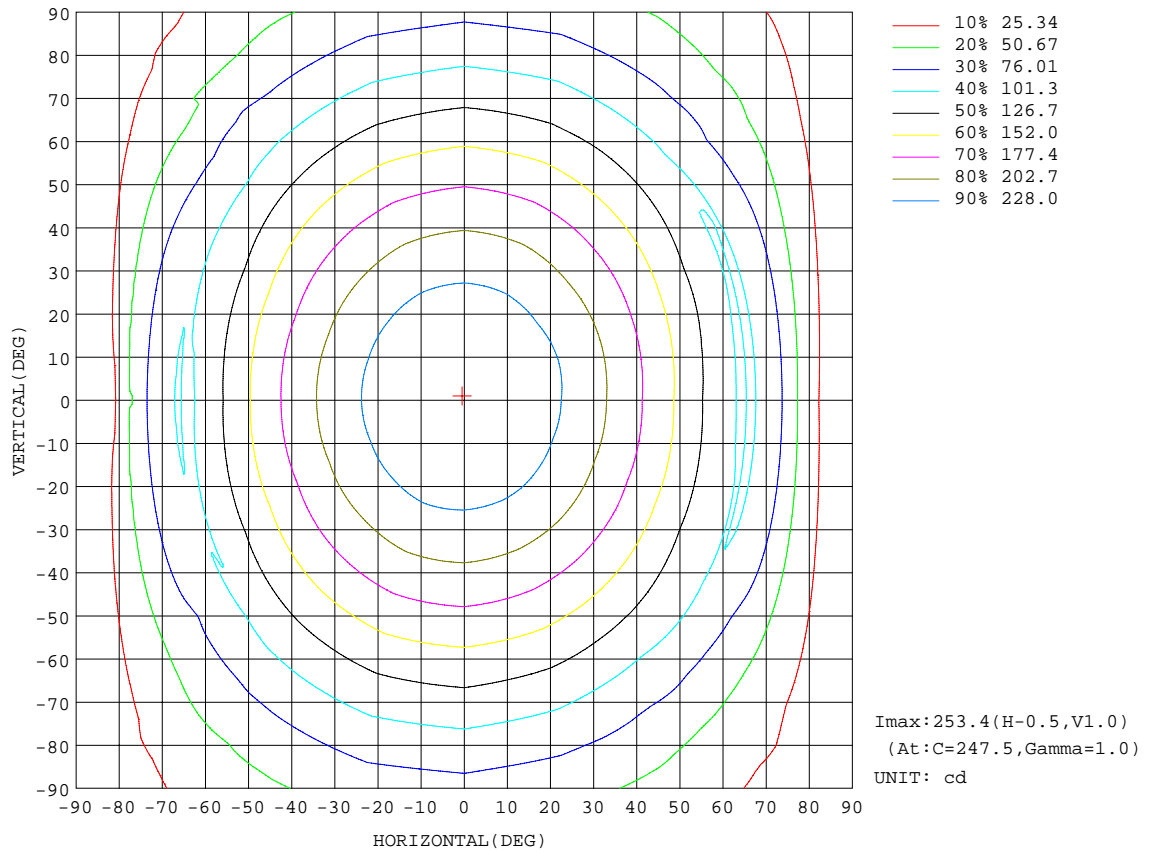
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	32	50	39	32	49	38	31	25
0.80	61	48	40	59	47	40	57	46	39	32
1.00	68	56	48	67	55	48	64	56	47	39
1.25	75	63	55	73	62	55	70	60	53	45
1.50	80	69	61	78	68	60	74	65	58	49
2.00	88	77	69	85	76	68	80	72	66	56
2.50	92	82	75	89	80	74	84	77	71	60
3.00	96	87	80	93	85	78	87	81	75	64
4.00	100	93	87	97	90	85	91	86	81	69
5.00	103	97	91	100	94	89	93	89	85	72
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:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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



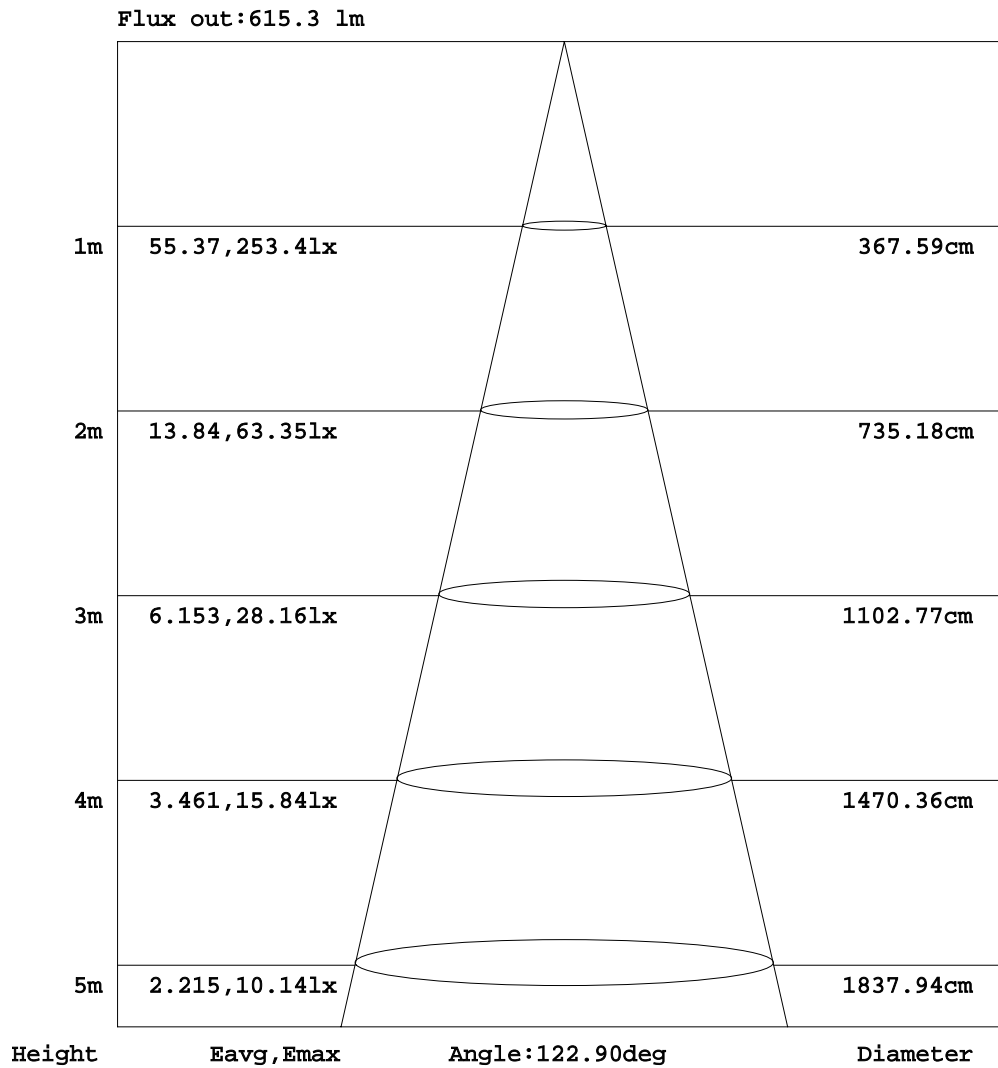
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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



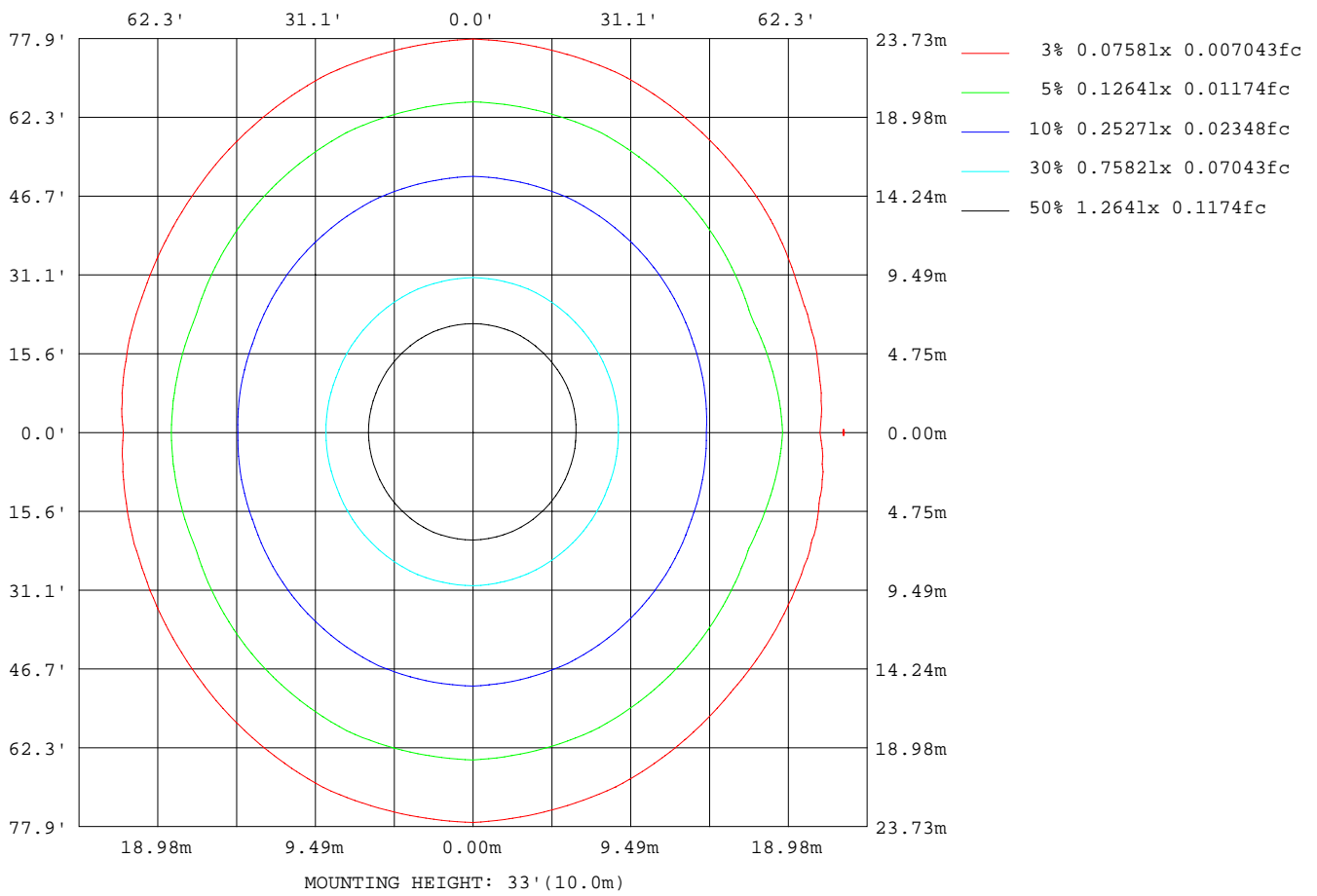
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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

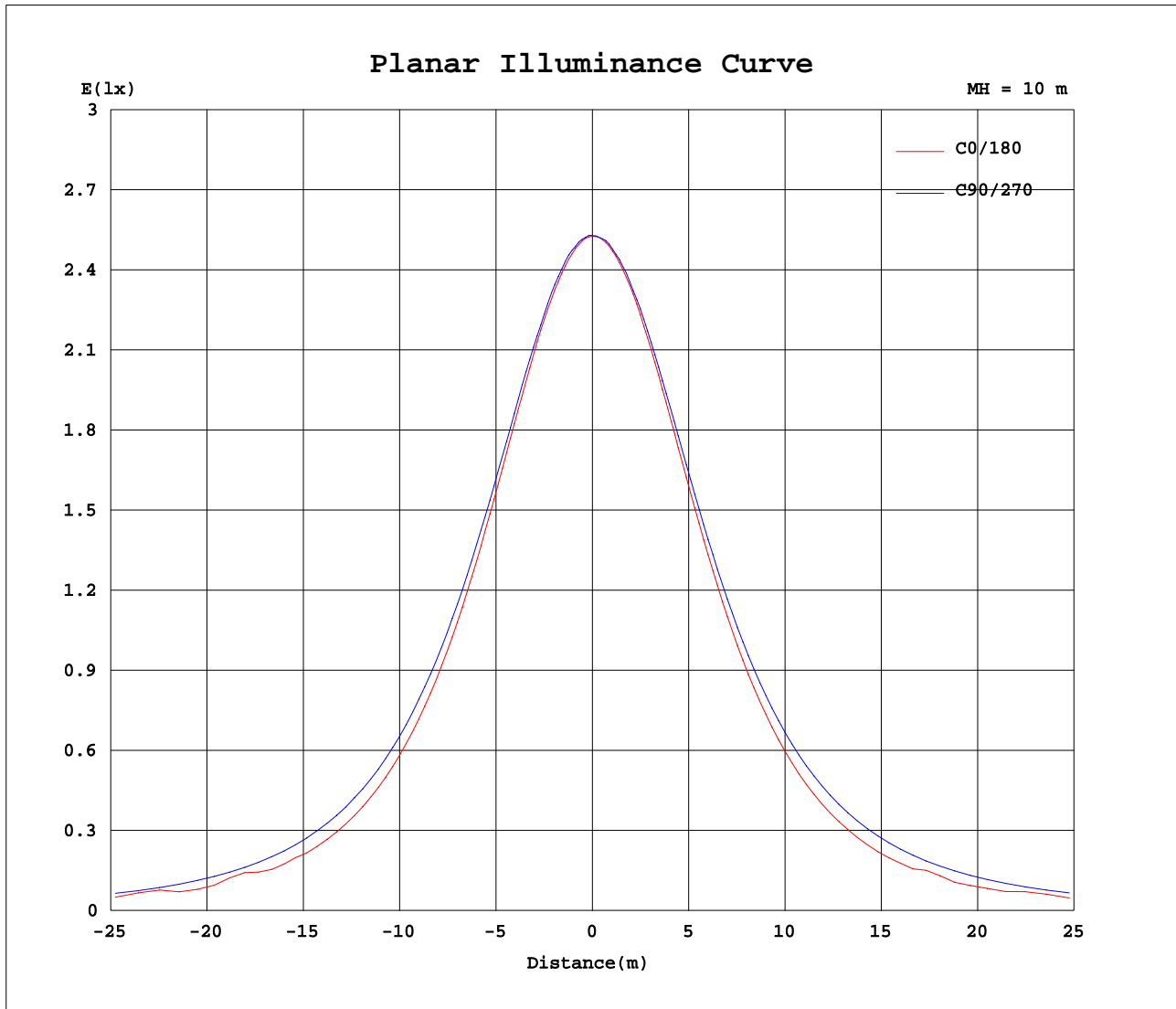
AvgL	cd/m2
L_0~180(65)av	5553
L_0~180(75)av	5619
L_0~180(85)av	3910
L_90~270(65)av	7883
L_90~270(75)av	10249
L_90~270(85)av	23246
L_45(65)av	6672
L_45(75)av	8007
L_45(85)av	16478

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.3DEG  
 Operators:BEN  
 Test Date:2018-11-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.445m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature: 25.3DEG  
 Operators: BEN  
 Test Date: 2018-11-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 45%  
 Test Distance: 2.445m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1334A P:15.77W PF:0.9848 Lamp Flux:950.039x1 lm		
NAME: ASD-LWS-11-D15CC-XX 5000K	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	253	252	253	253	253	253	252	253	253	252	253	253	253	253	252	253			
5	251	251	252	252	252	252	251	251	252	252	253	253	252	252	251	251			
10	247	247	248	249	249	249	248	248	248	248	250	250	250	250	248	248			
15	241	241	242	243	243	244	243	243	243	243	244	246	246	245	243	242			
20	233	232	234	236	237	237	235	235	235	235	237	239	239	239	236	235			
25	223	222	225	227	229	229	227	225	226	226	228	231	232	231	227	225			
30	210	211	214	217	220	219	216	213	214	215	218	222	223	221	216	214			
35	197	197	202	206	209	208	204	200	201	201	206	211	212	210	205	200			
40	181	182	188	194	197	196	190	185	186	187	192	198	201	198	191	186			
45	165	166	173	181	185	183	176	169	169	171	178	185	189	186	177	170			
50	147	149	157	166	172	169	161	152	150	153	163	172	176	172	162	153			
55	128	131	141	152	159	155	145	134	131	135	147	158	163	158	147	135			
60	115	121	125	138	145	141	129	116	121	116	130	143	149	144	131	116			
65	93.3	101	109	124	131	127	113	103	94.5	102	114	129	135	129	115	98.7			
70	81.5	86.1	93.7	110	118	113	98.2	90.7	80.1	85.0	98.1	114	121	115	99.7	85.0			
75	57.0	67.5	79.3	96.2	105	99.8	83.7	66.3	59.3	68.0	83.2	101	108	102	85.4	68.7			
80	31.1	46.2	67.8	83.4	91.8	87.0	70.2	51.1	30.6	46.2	69.4	87.8	94.8	88.7	71.8	50.9			
85	13.8	31.5	54.3	71.3	79.7	74.8	59.0	36.3	13.5	32.9	56.9	75.4	82.4	76.5	59.7	37.5			
90	9.85	22.7	44.4	60.1	68.1	63.4	47.4	26.6	6.76	22.8	46.1	63.9	70.7	64.9	48.9	27.4			
95	8.05	17.8	36.3	49.7	57.1	52.6	38.2	19.8	8.07	16.9	36.7	53.2	59.6	54.3	39.8	21.3			
100	10.8	16.7	29.4	40.5	46.9	43.1	30.4	16.2	8.98	14.4	29.0	43.5	49.3	44.6	31.9	17.8			
105	11.8	16.5	23.4	32.4	37.8	34.6	23.7	14.3	9.80	13.4	22.4	34.8	40.0	35.9	25.1	16.5			
110	11.4	15.5	18.1	25.3	29.8	27.1	18.2	12.5	9.90	11.7	17.1	27.1	31.6	28.1	19.4	14.2			
115	11.2	12.4	13.5	19.2	22.8	20.7	13.7	10.5	9.96	9.74	12.9	20.6	24.2	21.4	14.6	11.2			
120	10.7	10.2	9.69	14.2	16.9	15.4	10.0	9.53	9.65	8.31	9.45	15.3	18.0	15.9	10.5	8.75			
125	9.20	8.54	6.85	10.0	11.9	11.1	7.15	7.05	8.87	7.12	6.79	10.8	12.7	11.1	7.33	8.46			
130	7.59	7.54	5.02	6.79	7.90	7.61	5.33	6.16	8.26	7.22	4.99	7.35	8.35	7.46	5.19	6.04			
135	6.32	7.78	3.92	4.42	4.88	5.20	3.88	6.04	7.52	5.70	5.41	5.31	5.00	5.03	3.62	5.07			
140	5.29	4.76	4.27	2.80	2.84	3.59	3.57	5.83	6.83	4.63	3.55	3.25	2.74	3.28	3.28	4.67			
145	4.49	4.24	3.35	2.30	1.47	2.73	4.75	4.77	5.36	4.22	3.17	2.50	2.47	2.26	3.10	4.17			
150	4.05	3.87	2.81	2.46	1.56	3.49	4.62	4.08	4.22	3.93	2.99	2.62	1.43	2.11	2.72	3.53			
155	3.73	3.60	2.75	2.57	1.68	3.43	4.57	3.84	3.77	3.70	3.26	2.64	1.64	1.76	2.57	2.77			
160	3.44	3.36	2.99	2.24	1.69	2.63	3.89	3.70	3.53	3.52	2.91	2.69	1.82	1.35	2.10	2.49			
165	3.21	3.15	2.74	2.03	1.66	2.14	2.81	3.61	3.45	3.45	2.93	3.04	1.82	1.39	1.87	2.80			
170	2.94	2.95	2.63	1.64	1.58	1.82	2.69	3.38	3.29	3.29	2.68	2.93	1.67	1.42	1.48	2.64			
175	1.91	1.50	1.45	1.40	1.41	1.54	1.64	1.78	2.62	2.58	1.77	1.62	1.49	1.38	1.35	1.41			
180	0.51	0.46	0.42	0.19	0.00	0.00	0.00	0.00	0.51	0.51	0.46	0.43	0.39	0.33	0.39	0.41			

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