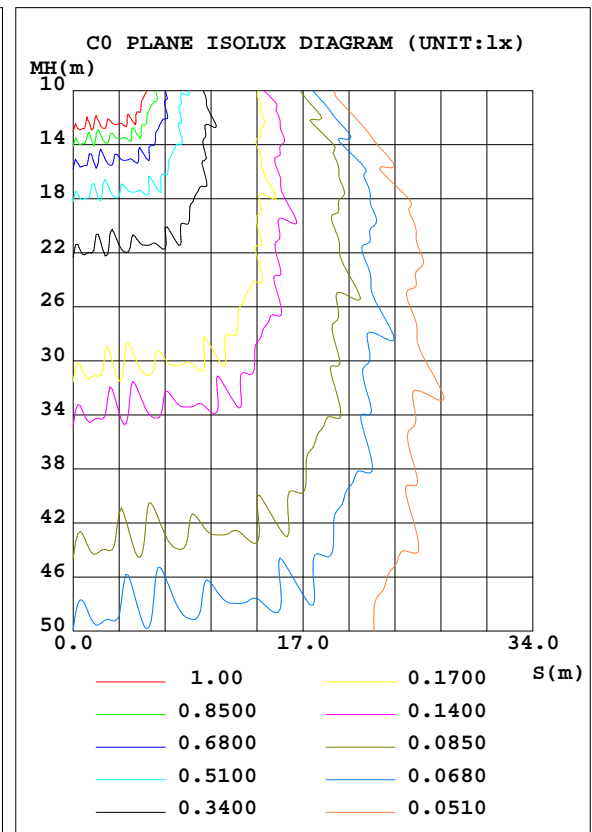
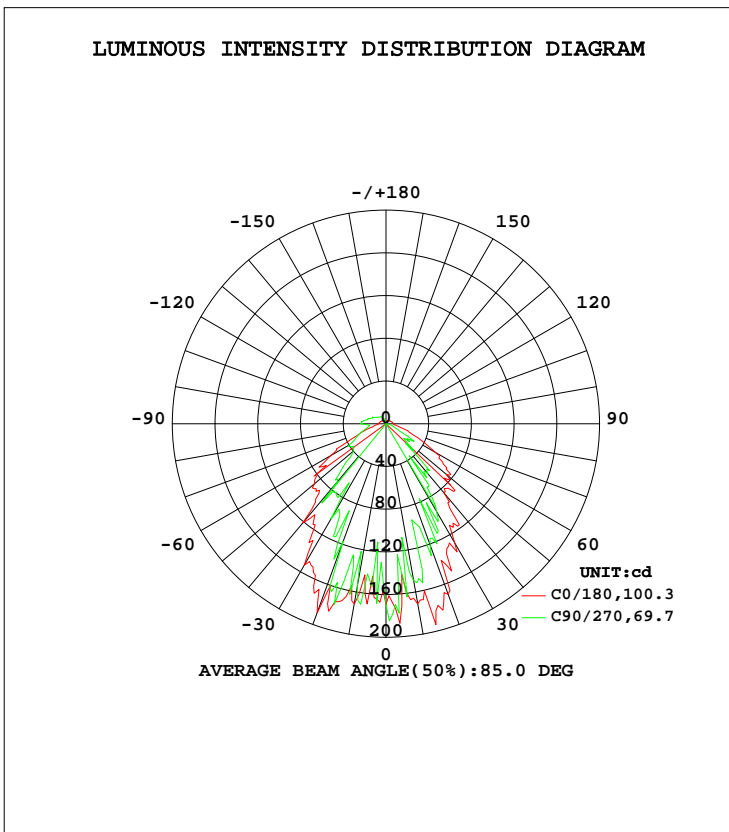


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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: 38.67 lm/W			
MODEL	PSZ2S220516017-10	I _{max} (cd)	219.3	S/MH(C0/180)	1.15
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.54
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	368.14	η UP, DN(C0-180)	10.0,49.1
NOMINAL FLUX(lm)	368.138	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	2.3,38.5
LAMPS INSIDE	1	η up(%)	12.4	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	87.6	CIBSE SHR MAX	1.05



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [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	171.3	155.0	156.7	132.5	171.3	163.3	148.9	138.1	0- 10	14.86	14.86	4.04,4.04
20	188.6	138.5	117.0	147.8	169.9	141.3	121.2	115.5	10- 20	41.62	56.49	15.3,15.3
30	152.9	141.3	103.1	137.2	128.8	117.8	94.19	132.5	20- 30	59.01	115.5	31.4,31.4
40	121.1	76.90	70.92	74.58	84.27	68.53	61.11	71.48	30- 40	58.46	174.0	47.3,47.3
50	87.28	59.39	40.32	50.47	73.67	45.46	22.04	44.74	40- 50	51.50	225.4	61.2,61.2
60	59.62	45.06	40.60	44.83	53.09	21.35	24.06	20.98	50- 60	38.90	264.3	71.8,71.8
70	25.52	30.23	25.26	30.31	23.41	14.61	7.207	15.08	60- 70	28.06	292.4	79.4,79.4
80	11.15	21.76	16.77	21.77	9.935	7.954	2.676	7.760	70- 80	17.71	310.1	84.2,84.2
90	7.242	21.94	23.74	22.35	6.971	5.085	0.0893	4.545	80- 90	12.47	322.6	87.6,87.6
100	6.360	21.12	19.55	21.20	6.320	4.694	0.0328	4.241	90-100	12.56	335.2	91,91
110	5.651	16.09	14.92	15.74	5.595	4.035	0.0362	3.619	100-110	10.01	345.2	93.8,93.8
120	5.029	13.32	11.92	13.17	4.870	3.526	0.0429	3.060	110-120	7.637	352.8	95.8,95.8
130	4.541	11.40	9.674	11.23	4.410	3.013	0.0598	2.686	120-130	5.783	358.6	97.4,97.4
140	4.187	9.930	8.539	9.728	4.080	2.479	0.0826	2.011	130-140	4.290	362.9	98.6,98.6
150	3.839	7.860	7.225	7.727	3.654	1.800	0.1470	1.244	140-150	2.973	365.8	99.4,99.4
160	3.021	4.950	4.901	4.780	2.663	1.994	0.1925	0.7336	150-160	1.675	367.5	99.8,99.8
170	1.381	1.081	1.625	0.9340	1.100	0.9385	0.2059	0.2330	160-170	0.5723	368.1	100,100
180	0.2524	0.2484	0.2353	0.2480	0.2533	0.2495	0.2354	0.2362	170-180	0.0503	368.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 201.12 lm

%lum = 54.6%

%lamp = 54.6%

Conical surface Flux(120deg): 264.35 lm

%lum = 71.8%

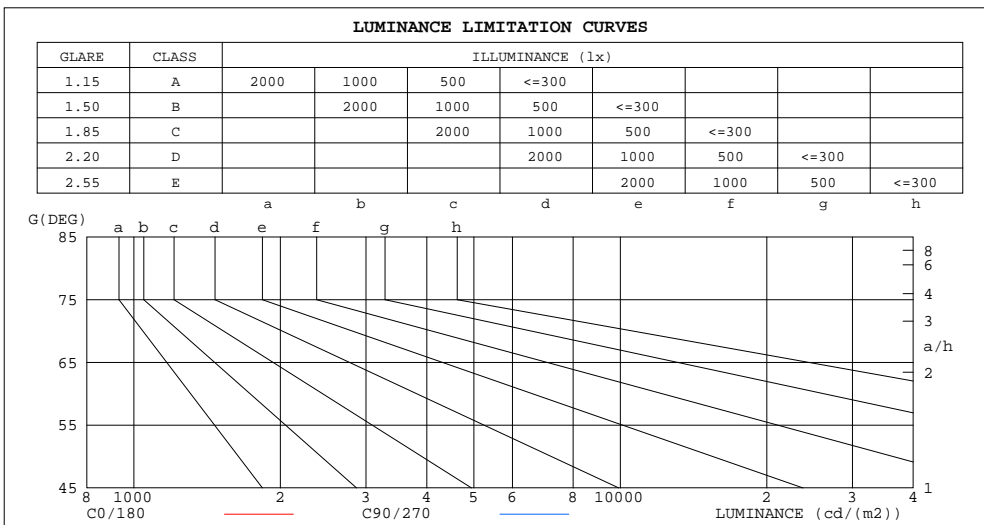
%lamp = 71.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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	118100	244123
80	83658	127333
75	79939	104696
70	97215	97387
65	120787	95976
60	155356	107065
55	155056	84975
50	176899	82711
45	162579	105368

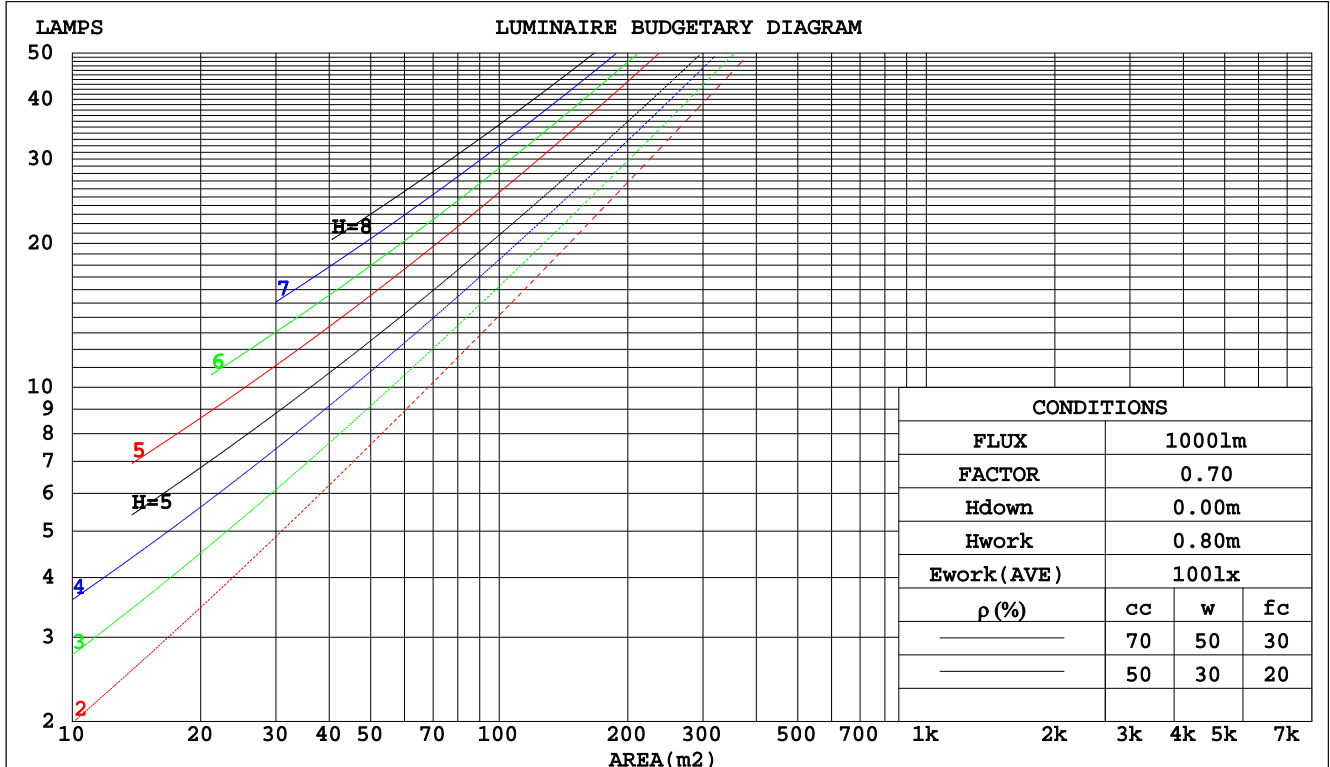
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.91	.91	.91	.88
1.0	1.02	.97	.94	.98	.94	.91	.92	.89	.86	.86	.83	.81	.80	.78	.77	.74
2.0	.90	.83	.78	.87	.81	.76	.81	.76	.72	.76	.72	.69	.71	.68	.66	.63
3.0	.80	.72	.66	.77	.70	.65	.73	.67	.62	.68	.63	.59	.64	.60	.57	.54
4.0	.71	.63	.57	.69	.62	.56	.65	.59	.54	.62	.56	.52	.58	.54	.50	.48
5.0	.64	.56	.50	.63	.55	.49	.59	.53	.48	.56	.50	.46	.53	.48	.44	.42
6.0	.59	.50	.44	.57	.49	.44	.54	.47	.42	.51	.45	.41	.49	.44	.40	.38
7.0	.53	.45	.40	.52	.44	.39	.50	.43	.38	.47	.41	.37	.45	.40	.36	.34
8.0	.49	.41	.36	.48	.40	.35	.46	.39	.34	.43	.38	.33	.41	.36	.33	.31
9.0	.45	.38	.32	.44	.37	.32	.42	.36	.31	.40	.35	.30	.39	.33	.30	.28
10.0	.42	.35	.30	.41	.34	.29	.39	.33	.29	.38	.32	.28	.36	.31	.27	.26



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.6DEG
 Operators: Carl
 Test Date: 2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 39%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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	.298	.169	.054	.287	.164	.052	.267	.153	.049	.248	.143	.046	.231	.134	.043	
2.0	.271	.149	.046	.262	.144	.044	.244	.135	.042	.227	.127	.040	.212	.120	.038	
3.0	.249	.132	.040	.240	.129	.039	.224	.121	.037	.209	.114	.035	.195	.108	.033	
4.0	.229	.119	.035	.221	.116	.034	.207	.110	.033	.193	.104	.031	.181	.098	.030	
5.0	.212	.108	.031	.205	.105	.031	.192	.100	.029	.180	.095	.028	.168	.090	.027	
6.0	.197	.099	.028	.191	.096	.028	.179	.092	.027	.168	.087	.026	.157	.083	.025	
7.0	.184	.091	.026	.178	.089	.025	.167	.085	.024	.157	.081	.023	.148	.077	.023	
8.0	.172	.084	.024	.167	.082	.023	.157	.079	.022	.148	.075	.022	.139	.071	.021	
9.0	.162	.078	.022	.157	.077	.022	.148	.073	.021	.140	.070	.020	.131	.067	.019	
10.0	.153	.073	.020	.148	.072	.020	.140	.069	.019	.132	.066	.019	.125	.063	.018	

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	.285	.285	.285	.243	.243	.243	.166	.166	.166	.095	.095	.095	.031	.031	.031	
1.0	.275	.251	.230	.235	.216	.198	.161	.148	.137	.092	.086	.080	.030	.028	.026	
2.0	.265	.228	.196	.227	.196	.170	.156	.136	.118	.090	.079	.069	.029	.026	.023	
3.0	.257	.210	.174	.220	.181	.150	.151	.126	.106	.087	.074	.062	.028	.024	.020	
4.0	.249	.197	.158	.213	.170	.137	.147	.119	.097	.085	.070	.057	.027	.023	.019	
5.0	.241	.187	.147	.207	.162	.128	.143	.113	.090	.083	.066	.054	.027	.022	.018	
6.0	.234	.179	.139	.201	.155	.121	.139	.108	.086	.080	.064	.051	.026	.021	.017	
7.0	.227	.172	.133	.196	.149	.116	.135	.104	.082	.078	.061	.049	.025	.020	.016	
8.0	.221	.166	.128	.190	.144	.112	.132	.101	.079	.077	.060	.047	.025	.020	.016	
9.0	.215	.161	.124	.186	.140	.109	.129	.098	.077	.075	.058	.046	.024	.019	.015	
10.0	.210	.157	.122	.181	.136	.106	.126	.096	.075	.073	.057	.045	.024	.019	.015	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm										
NAME: ASD-LWS25S-10D10CC-BK 4000K					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	29.3	30.6	29.8	31.0	31.4	27.6	28.9	28.0	29.3	29.7
3H	30.5	31.6	30.9	32.1	32.5	29.3	30.4	29.7	30.9	31.3
4H	30.9	32.0	31.4	32.4	32.9	30.1	31.2	30.6	31.7	32.2
6H	31.3	32.3	31.8	32.8	33.3	31.1	32.1	31.6	32.5	33.1
8H	31.4	32.4	32.0	32.9	33.4	31.6	32.5	32.1	33.0	33.6
12H	31.6	32.6	32.2	33.1	33.6	32.2	33.2	32.8	33.7	34.2
4H 2H	29.7	30.8	30.2	31.3	31.7	28.4	29.5	28.9	30.0	30.5
3H	31.2	32.1	31.7	32.6	33.1	30.3	31.3	30.8	31.8	32.3
4H	31.8	32.7	32.3	33.2	33.8	31.4	32.2	31.9	32.8	33.3
6H	32.4	33.2	33.0	33.7	34.3	32.5	33.3	33.1	33.8	34.4
8H	32.7	33.4	33.3	34.0	34.6	33.1	33.8	33.7	34.4	35.0
12H	33.0	33.7	33.6	34.3	34.9	33.9	34.6	34.5	35.2	35.8
8H 4H	32.2	32.9	32.8	33.5	34.1	31.9	32.6	32.5	33.2	33.8
6H	33.2	33.8	33.8	34.4	35.0	33.3	33.9	34.0	34.5	35.2
8H	33.7	34.2	34.3	34.8	35.5	34.2	34.7	34.8	35.3	36.0
12H	34.3	34.7	34.9	35.4	36.1	35.3	35.7	35.9	36.4	37.1
12H 4H	32.3	33.0	32.9	33.5	34.2	32.0	32.6	32.6	33.2	33.9
6H	33.4	33.9	34.0	34.6	35.3	33.6	34.1	34.2	34.7	35.4
8H	34.1	34.5	34.7	35.2	35.9	34.5	35.0	35.2	35.6	36.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.4 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.7 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 368.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -3.5)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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

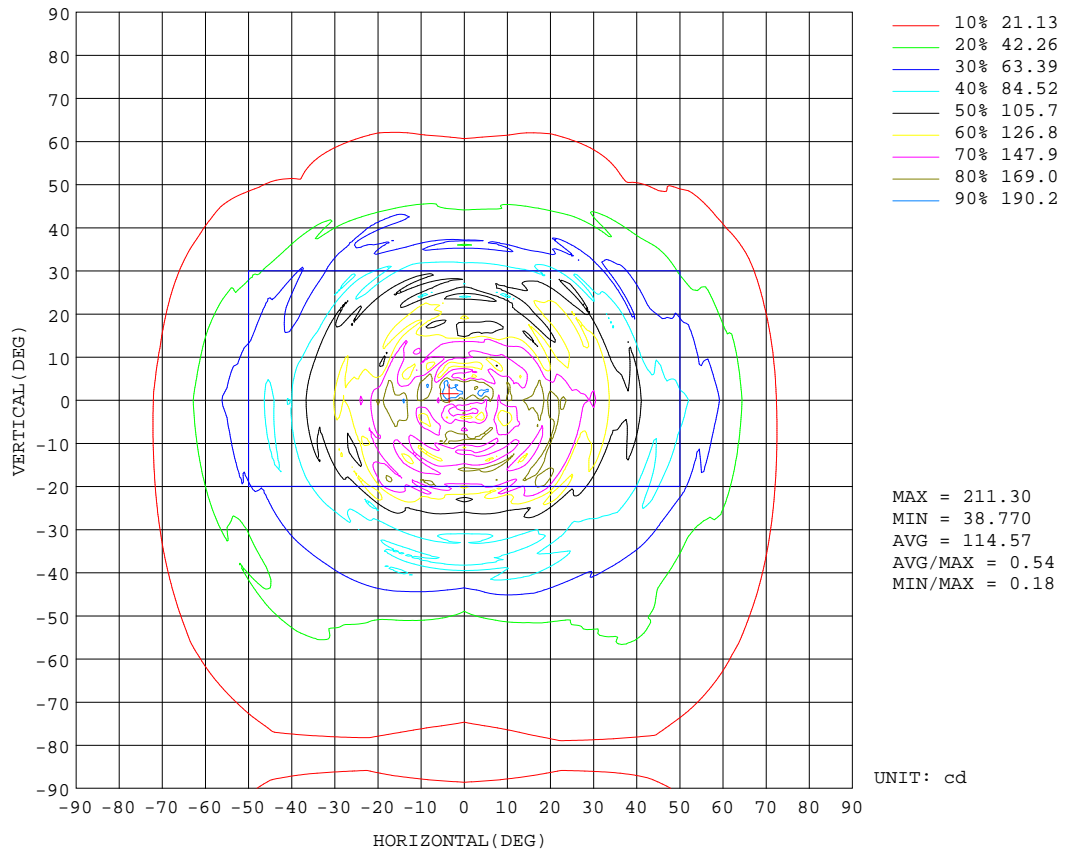
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	59	48	42	58	48	41	56	47	41	35
0.80	68	57	50	67	57	50	64	55	49	43
1.00	76	65	58	74	64	58	71	64	57	49
1.25	82	72	65	80	71	64	76	69	63	55
1.50	87	77	70	84	76	69	80	73	67	59
2.00	93	84	78	90	82	76	85	79	74	64
2.50	96	88	82	93	86	81	88	82	78	67
3.00	99	92	87	96	90	85	91	86	81	70
4.00	103	97	92	100	94	90	94	89	86	74
5.00	105	100	96	102	97	93	95	92	89	76
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:25.6DEG
 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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

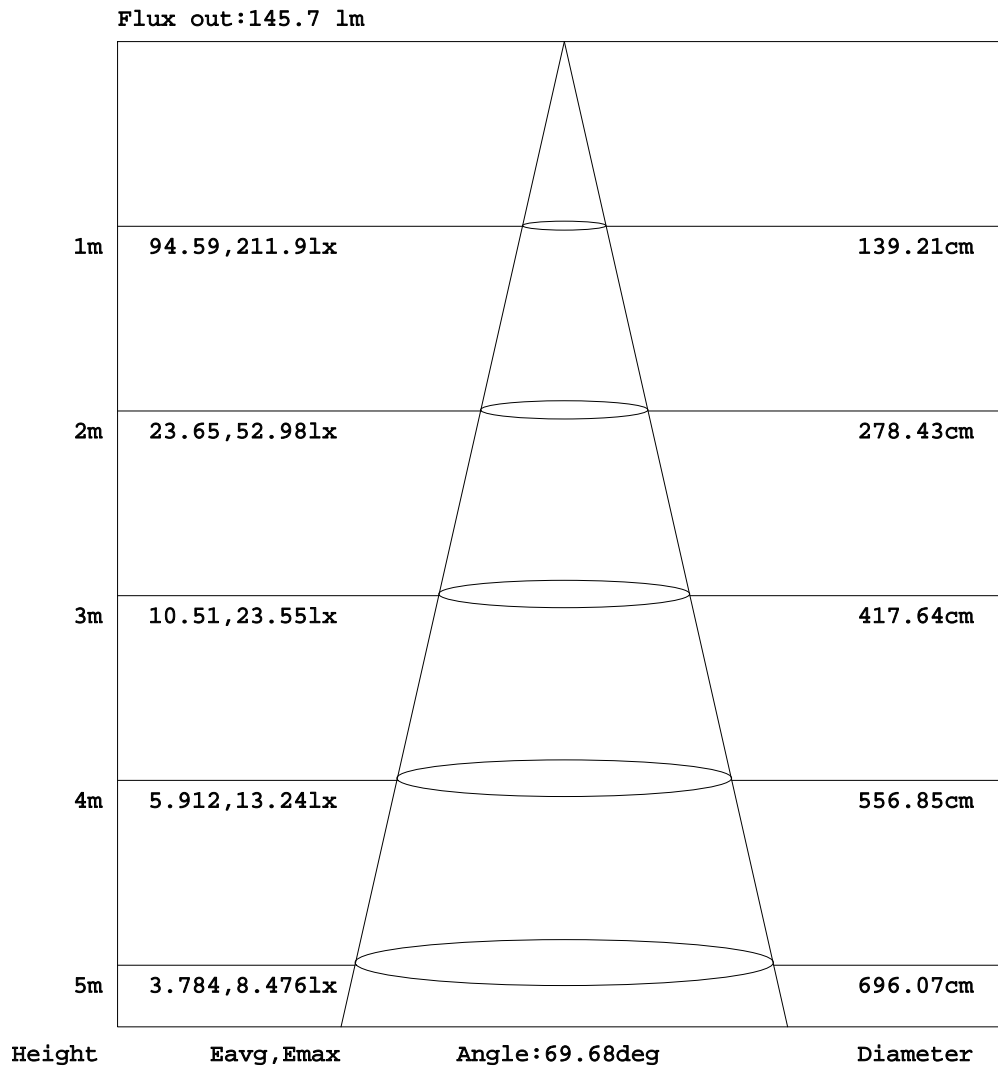


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
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 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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



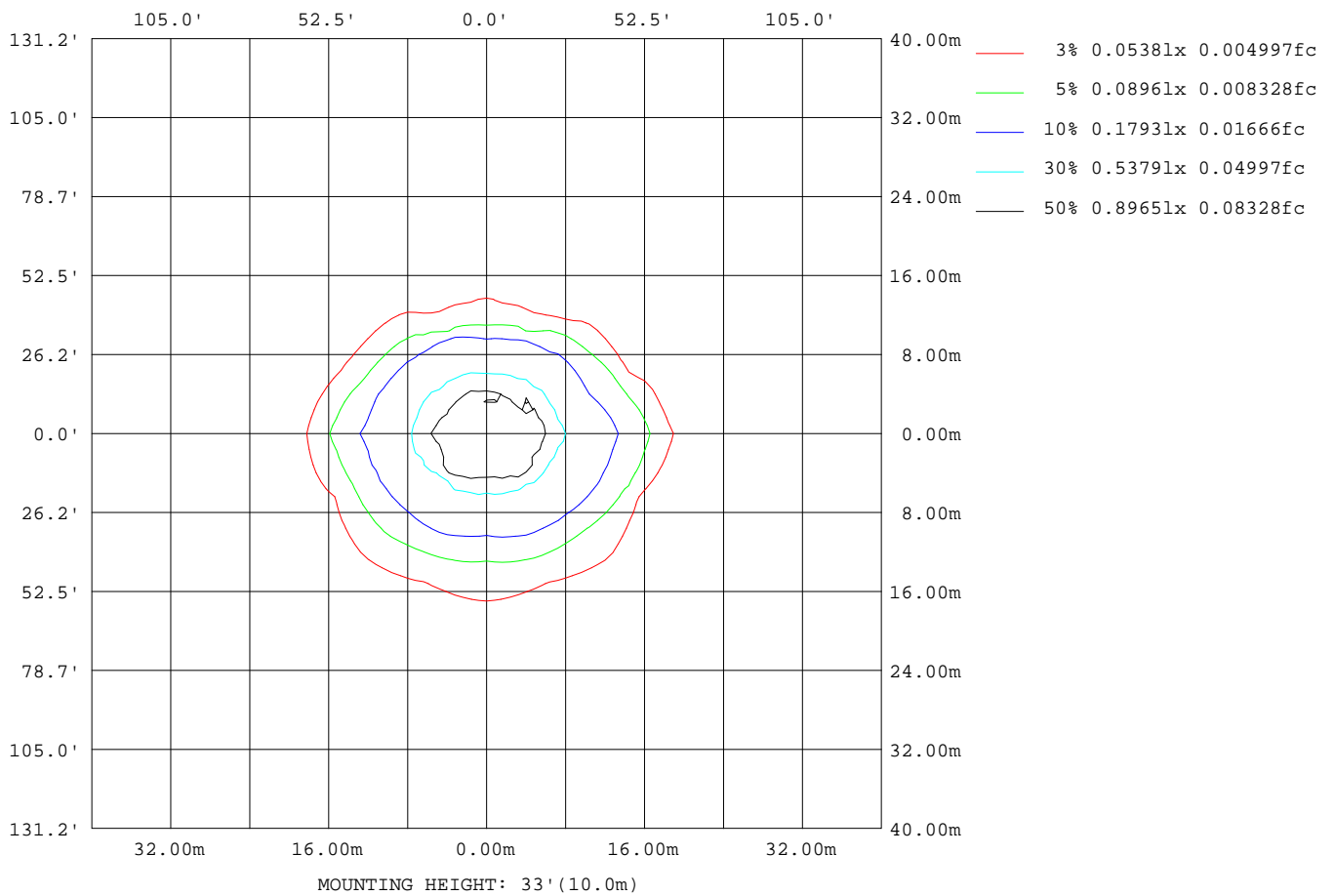
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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:25.6DEG
 Operators:Carl
 Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:39%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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

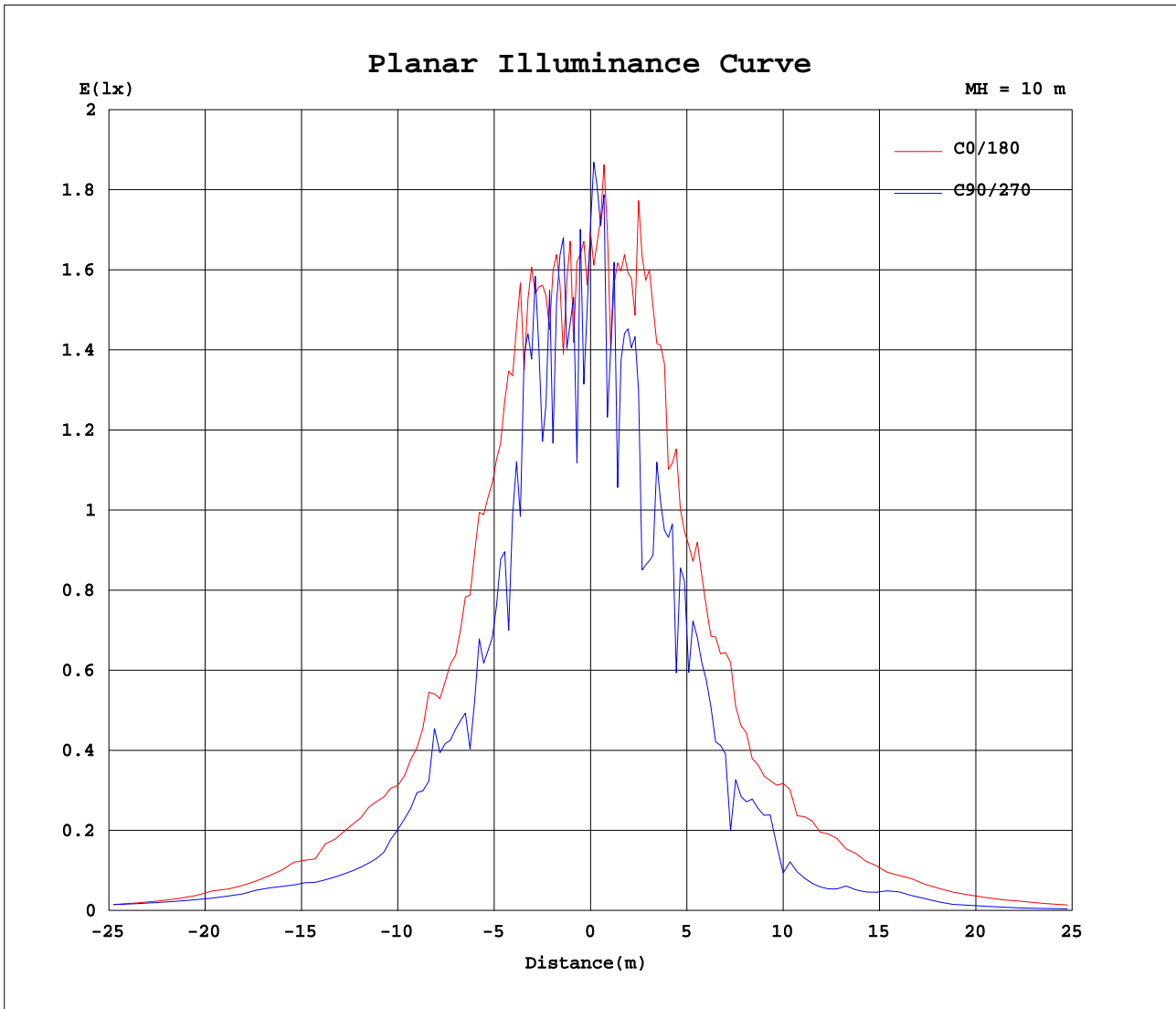
AvgL	cd/m2
L_0~180(65)av	115210
L_0~180(75)av	77020
L_0~180(85)av	114664
L_90~270(65)av	64299
L_90~270(75)av	63486
L_90~270(85)av	128009
L_45(65)av	83481
L_45(75)av	90039
L_45(85)av	191377

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:Carl
Test Date:2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:39%
Test Distance:2.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.6DEG
 Operators: Carl
 Test Date: 2022-05-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 39%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.0811A P:9.520W PF:0.9772 Lamp Flux:368.138x1 lm		
NAME: ASD-LWS25S-10D10CC-BK 4000K	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	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169			
5	143	139	110	134	153	151	129	150	171	207	183	175	123	178	182	197			
10	171	106	155	167	157	170	132	117	171	185	163	149	149	147	138	168			
15	173	165	137	117	153	123	123	170	181	117	148	137	93.1	157	170	140			
20	189	150	139	168	117	167	148	168	170	108	141	124	121	123	116	120			
25	157	153	177	107	116	119	178	128	134	118	108	114	113	111	88.7	118			
30	153	117	141	91.7	103	86.6	137	127	129	118	118	113	94.2	98.9	133	130			
35	116	93.2	93.9	77.3	81.3	77.9	87.1	98.9	117	113	105	72.6	70.2	72.1	116	102			
40	121	102	76.9	87.6	70.9	78.4	74.6	88.4	84.3	79.7	68.5	61.8	61.1	57.6	71.5	103			
45	88.2	77.3	63.7	74.2	56.5	68.7	70.0	85.3	89.7	59.6	56.9	66.8	26.3	54.8	59.4	82.0			
50	87.3	77.6	59.4	49.5	40.3	49.5	50.5	62.4	73.7	63.2	45.5	27.6	22.0	30.5	44.7	57.2			
55	68.3	52.6	44.7	40.1	37.0	40.2	49.0	51.4	65.5	42.4	38.4	22.9	24.3	22.2	31.9	47.3			
60	59.6	37.7	45.1	36.8	40.6	38.7	44.8	41.3	53.1	32.9	21.4	32.7	24.1	29.1	21.0	37.0			
65	39.2	33.2	38.5	33.8	30.8	32.4	35.8	35.1	35.7	23.4	17.6	17.6	11.0	17.0	16.7	25.5			
70	25.5	29.1	30.2	27.9	25.3	28.3	30.3	28.4	23.4	18.1	14.6	11.2	7.21	11.5	15.1	18.8			
75	15.9	22.1	25.4	24.4	20.6	24.5	25.3	22.3	14.8	12.9	10.3	7.62	4.71	7.51	10.6	13.6			
80	11.2	18.0	21.8	20.6	16.8	20.6	21.8	18.1	9.93	8.82	7.95	5.28	2.68	5.57	7.76	9.08			
85	7.90	15.1	19.7	19.7	16.1	20.1	19.8	15.3	7.46	6.57	6.10	3.41	1.02	3.43	5.73	6.75			
90	7.24	14.8	21.9	25.6	23.7	25.4	22.4	15.4	6.97	5.97	5.09	2.39	0.09	2.34	4.54	5.92			
95	6.73	14.4	23.2	25.2	23.5	25.8	22.6	15.0	6.64	5.66	5.00	2.32	0.03	2.23	4.51	5.70			
100	6.36	13.5	21.1	21.3	19.5	20.8	21.2	14.1	6.32	5.29	4.69	2.17	0.03	2.17	4.24	5.20			
105	6.02	12.4	18.4	18.8	17.5	18.6	18.0	12.8	5.95	4.84	4.55	2.04	0.03	2.05	4.03	4.76			
110	5.65	11.5	16.1	16.4	14.9	16.4	15.7	11.8	5.59	4.41	4.04	1.86	0.04	1.88	3.62	4.31			
115	5.34	10.6	14.5	15.4	13.5	15.6	14.2	10.6	5.18	3.97	3.76	1.68	0.04	1.72	3.35	4.13			
120	5.03	9.71	13.3	13.4	11.9	13.2	13.2	9.81	4.87	3.69	3.53	1.58	0.04	1.61	3.06	3.81			
125	4.71	9.00	12.3	12.2	10.7	11.9	12.1	9.09	4.71	3.44	3.29	1.46	0.05	1.48	2.84	3.39			
130	4.54	8.35	11.4	11.5	9.67	11.2	11.2	8.45	4.41	3.03	3.01	1.33	0.06	1.36	2.69	2.92			
135	4.37	7.86	10.7	10.6	8.98	10.3	10.5	7.91	4.27	2.63	2.80	1.21	0.07	1.24	2.38	2.55			
140	4.19	7.21	9.93	9.94	8.54	9.62	9.73	7.28	4.08	2.54	2.48	1.14	0.08	1.06	2.01	2.43			
145	4.05	6.43	8.99	9.11	8.00	8.80	8.88	6.48	3.92	2.98	2.15	1.05	0.10	0.78	1.62	2.32			
150	3.84	5.63	7.86	8.08	7.22	7.87	7.73	5.65	3.65	3.27	1.80	1.01	0.15	0.47	1.24	2.20			
155	3.55	4.57	6.53	6.73	6.20	6.58	6.38	4.52	3.27	3.20	1.88	0.92	0.17	0.20	1.01	1.84			
160	3.02	3.24	4.95	5.16	4.90	5.04	4.78	3.24	2.66	2.66	1.99	0.96	0.19	0.16	0.73	1.31			
165	2.28	2.25	3.15	3.38	3.35	3.27	2.98	2.07	1.93	1.93	1.63	0.90	0.22	0.17	0.51	0.96			
170	1.38	1.33	1.08	1.46	1.63	1.40	0.93	1.22	1.10	1.11	0.94	0.55	0.21	0.19	0.23	0.63			
175	0.55	0.51	0.37	0.30	0.33	0.30	0.31	0.44	0.33	0.34	0.28	0.22	0.21	0.21	0.22	0.23			
180	0.25	0.25	0.25	0.23	0.24	0.22	0.25	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24			

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