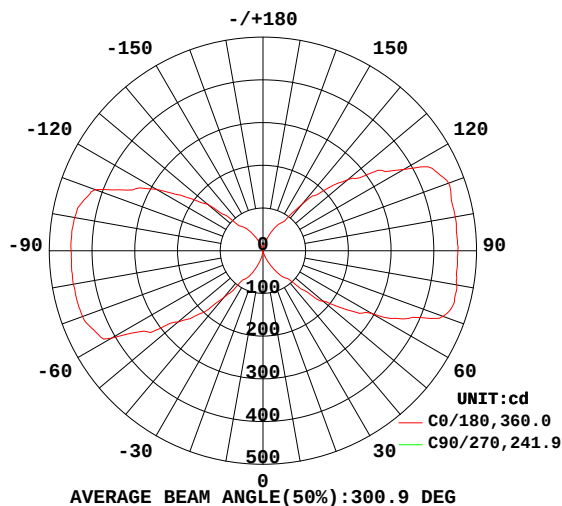


LUMINAIRE PHOTOMETRIC TEST REPORT

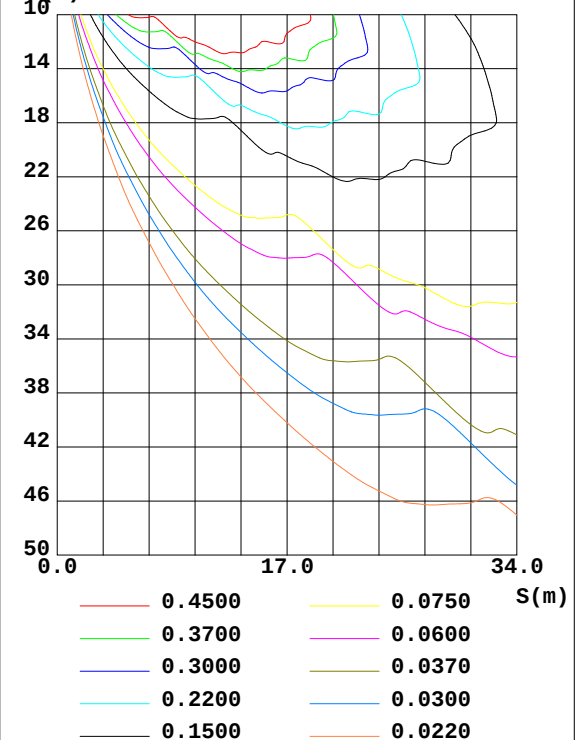
Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm		
NAME: ASD-LCLS-2A-18BK-PC 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminire	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.897 lm/W			
MODEL	ASD-LCLS-2A-18BK-PC 5000K	I _{max} (cd)	469.5	S/MH(C0/180)	0.03
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1550.6	η UP, DN(C0-180)	24.0, 26.0
NOMINAL FLUX(lm)	1502.68	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	25.2, 24.7
LAMPS INSIDE	1	η up(%)	49.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	50.8	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:24.8DEG
Operators:Hill
Test Date:2024-09-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:46%
Test Distance:2.519m [K=1.0000]
Remarks: 5000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	7.968	3.396	0.1717	0.0824	0.3971	0.0609	0.1850	2.824	0- 10	0.0815	0.0815	0.01,0.01
20	35.21	17.02	0.1457	3.915	14.89	3.709	0.1631	15.12	10- 20	1.773	1.855	0.12,0.12
30	72.31	37.45	0.1191	17.91	47.07	17.69	0.1460	33.92	20- 30	9.152	11.01	0.71,0.71
40	142.3	61.26	0.0906	38.55	83.86	38.20	0.1364	55.98	30- 40	24.33	35.33	2.28,2.28
50	259.5	78.10	0.0676	62.18	183.4	61.93	0.1249	73.21	40- 50	53.89	89.22	5.75,5.75
60	409.3	107.8	0.0442	84.91	293.1	79.11	0.1055	83.00	50- 60	102.2	191.4	12.3,12.3
70	449.6	131.0	0.0342	99.08	448.9	105.2	0.0847	128.9	60- 70	157.9	349.3	22.5,22.5
80	450.8	155.2	0.0352	129.8	460.9	154.1	0.0615	151.5	70- 80	206.5	555.8	35.8,35.8
90	449.4	157.6	0.0390	161.3	456.2	162.6	0.0503	147.2	80- 90	231.5	787.2	50.8,50.8
100	447.6	128.9	0.0413	143.6	457.0	170.5	0.0505	122.7	90-100	229.6	1017	65.6,65.6
110	418.2	96.20	0.0442	129.2	462.5	149.3	0.0496	80.63	100-110	201.6	1218	78.6,78.6
120	288.3	76.50	0.0471	89.90	380.6	95.30	0.0430	70.38	110-120	152.5	1371	88.4,88.4
130	170.4	56.82	0.0534	76.06	258.8	75.84	0.0482	54.00	120-130	97.18	1468	94.7,94.7
140	73.03	34.48	0.0738	56.70	142.1	57.88	0.0576	32.95	130-140	49.83	1518	97.9,97.9
150	40.56	15.34	0.1013	34.12	70.77	35.66	0.0674	14.92	140-150	22.50	1540	99.3,99.3
160	12.19	2.954	0.1126	14.76	34.43	15.88	0.0809	2.951	150-160	8.488	1549	99.9,99.9
170	0.3560	0.1258	0.1118	2.581	7.590	2.997	0.0924	0.1313	160-170	1.636	1551	100,100
180	0.0595	0.0507	0.0599	0.0369	0.0609	0.0511	0.0590	0.0367	170-180	0.0736	1551	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 57.227 lm

%lum = 3.7%

%lamp = 3.7%

Conical surface Flux(120deg): 191.44 lm

%lum = 12.3%

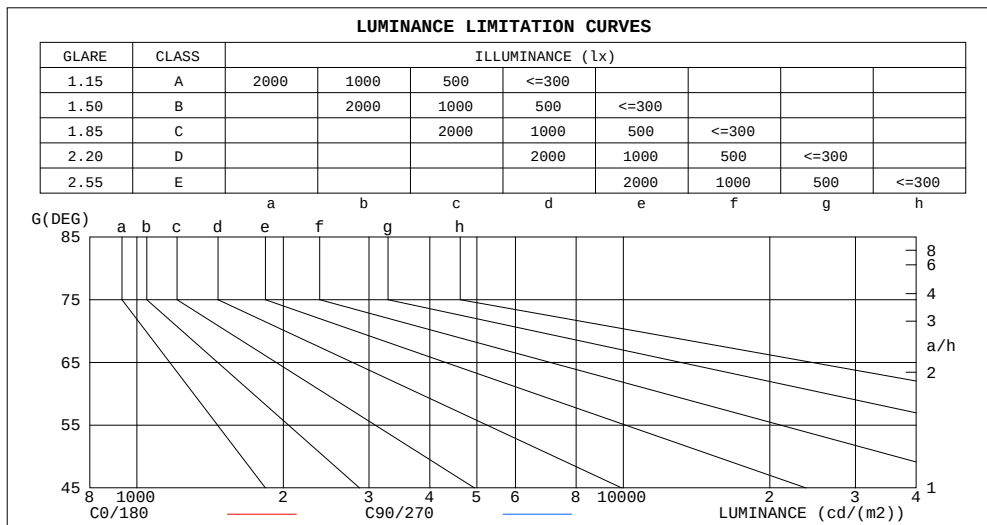
%lamp = 12.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Hill
 Test Date:2024-09-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity:46%
 Test Distance:2.519m [K=1.0000]
 Remarks: 5000K

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm		
NAME:ASD-LCLS-2A-18BK-PC 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminire	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	670932	55
80	337454	26
75	226398	17
70	170868	13
65	134613	11
60	106400	12
55	74999	13
50	52479	14
45	38256	14

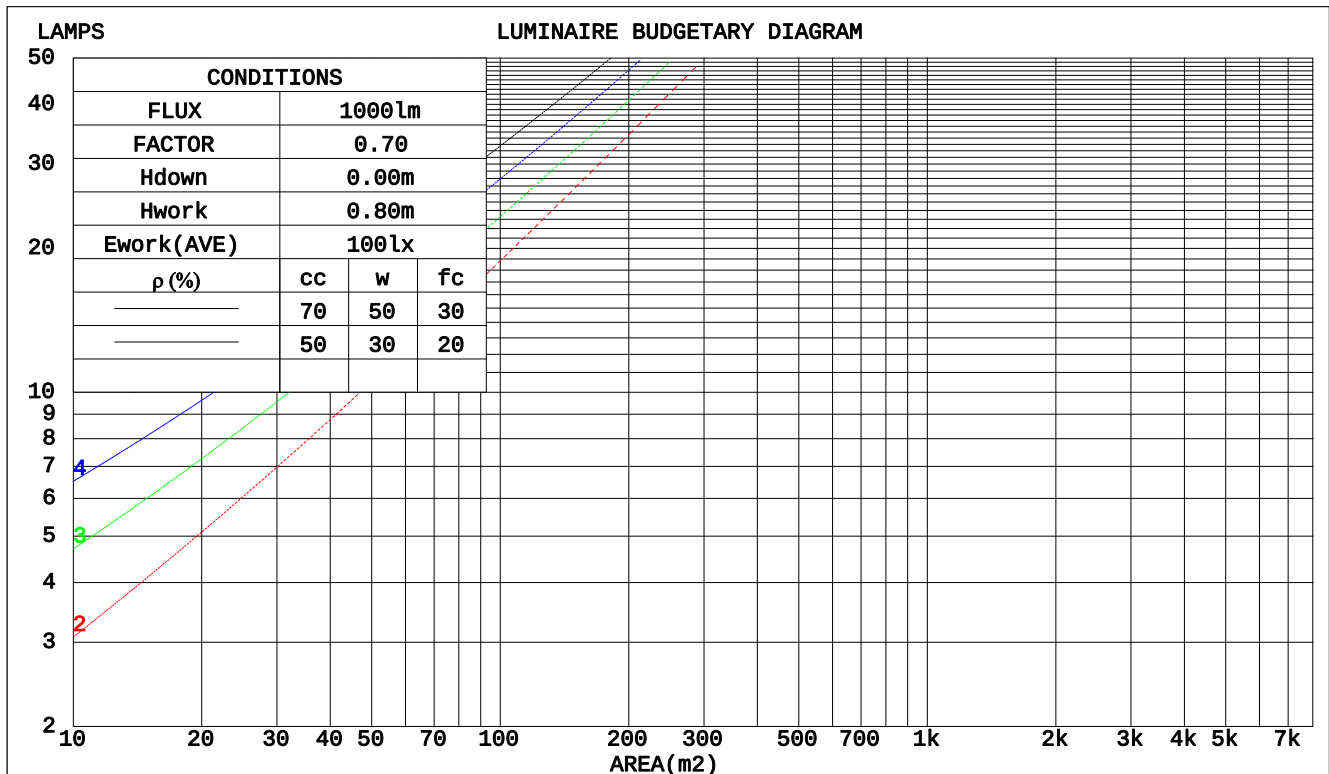
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Hill
Test Date: 2024-09-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 46%
Test Distance: 2.519m [K=1.0000]
Remarks: 5000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm		
NAME:ASD-LCLS-2A-18BK-PC 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminire	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	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.70	.70	.70	.57	.57	.57	.51
1.0	.83	.76	.70	.75	.69	.64	.62	.57	.53	.49	.46	.42	.38	.35	.33	.27
2.0	.68	.59	.51	.62	.54	.47	.50	.44	.38	.39	.34	.30	.29	.25	.22	.17
3.0	.57	.47	.39	.52	.43	.36	.42	.35	.29	.32	.27	.22	.24	.19	.16	.11
4.0	.49	.39	.31	.45	.36	.28	.36	.29	.23	.28	.22	.17	.20	.15	.12	.08
5.0	.43	.33	.26	.39	.30	.23	.31	.24	.18	.24	.18	.14	.17	.13	.09	.05
6.0	.38	.28	.21	.35	.26	.19	.28	.21	.15	.21	.16	.11	.15	.11	.07	.04
7.0	.34	.25	.18	.31	.22	.16	.25	.18	.13	.19	.14	.09	.14	.09	.06	.03
8.0	.31	.22	.15	.28	.20	.14	.22	.16	.11	.17	.12	.08	.13	.08	.05	.02
9.0	.28	.19	.13	.25	.17	.12	.20	.14	.09	.16	.11	.07	.11	.07	.04	.02
10.0	.25	.17	.12	.23	.16	.10	.19	.12	.08	.14	.09	.06	.11	.07	.04	.02



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Hill
Test Date:2024-09-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:46%
Test Distance:2.519m [K=1.0000]
Remarks: 5000K

WEC AND CCEC

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm								
NAME:ASD-LCLS-2A-18BK-PC 5000K				TYPE: N/A			WEIGHT: N/A	
SPEC.: LED Luminire				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	.491	.279	.089	.469	.268	.085	.427	.245	.078	.388	.224	.072	.353	.204	.066	
2.0	.393	.215	.066	.372	.205	.063	.334	.186	.058	.298	.167	.052	.266	.150	.047	
3.0	.334	.178	.053	.315	.169	.051	.280	.152	.046	.247	.135	.042	.217	.120	.037	
4.0	.291	.151	.045	.274	.144	.042	.242	.128	.038	.212	.114	.034	.184	.100	.030	
5.0	.259	.132	.038	.243	.125	.036	.214	.111	.033	.186	.098	.029	.160	.086	.026	
6.0	.234	.117	.034	.219	.111	.032	.192	.098	.029	.166	.086	.025	.142	.075	.022	
7.0	.213	.105	.030	.199	.099	.028	.174	.088	.025	.150	.077	.022	.128	.067	.020	
8.0	.195	.095	.027	.183	.090	.025	.160	.080	.023	.137	.070	.020	.117	.060	.017	
9.0	.180	.087	.024	.169	.082	.023	.147	.073	.021	.127	.063	.018	.107	.054	.016	
10.0	.168	.080	.022	.157	.076	.021	.137	.067	.019	.117	.058	.017	.099	.050	.014	

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	.566	.566	.566	.483	.483	.483	.330	.330	.330	.190	.190	.190	.061	.061	.061		
1.0	.571	.533	.498	.489	.457	.429	.334	.315	.297	.192	.182	.172	.062	.059	.056		
2.0	.566	.512	.466	.485	.441	.403	.333	.305	.281	.192	.177	.165	.062	.057	.054		
3.0	.560	.498	.448	.480	.429	.388	.329	.298	.273	.190	.174	.161	.061	.057	.053		
4.0	.552	.486	.436	.473	.420	.379	.326	.293	.267	.188	.172	.158	.061	.056	.052		
5.0	.544	.478	.429	.467	.413	.373	.322	.289	.263	.186	.169	.156	.060	.055	.051		
6.0	.536	.470	.423	.461	.407	.369	.318	.285	.261	.184	.168	.155	.059	.055	.051		
7.0	.529	.464	.419	.455	.402	.365	.314	.282	.259	.183	.166	.154	.059	.054	.051		
8.0	.522	.459	.416	.449	.398	.363	.311	.280	.257	.181	.165	.153	.058	.054	.051		
9.0	.515	.455	.414	.444	.395	.361	.307	.277	.256	.179	.164	.153	.058	.054	.051		
10.0	.509	.451	.412	.439	.391	.359	.304	.275	.255	.178	.163	.152	.058	.053	.051		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Hill
Test Date:2024-09-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:46%
Test Distance:2.519m [K=1.0000]
Remarks: 5000K

UGR(Unified Glare Rating) Table

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm										
NAME: ASD-LCLS-2A-18BK-PC 5000K					TYPE: N/A			WEIGHT: N/A		
SPEC.: LED Luminire					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	25.9	27.1	26.7	28.0	29.1	10.5	11.6	11.3	12.5	13.7
3H	30.6	31.7	31.5	32.6	33.8	11.5	12.6	12.4	13.5	14.7
4H	32.9	33.9	33.8	34.9	36.1	12.1	13.1	13.0	14.0	15.3
6H	35.2	36.2	36.1	37.1	38.4	12.5	13.5	13.4	14.4	15.7
8H	36.4	37.4	37.3	38.3	39.6	12.7	13.6	13.6	14.6	15.8
12H	37.8	38.7	38.7	39.7	40.9	12.8	13.7	13.7	14.7	15.9
4H 2H	25.9	26.9	26.8	27.8	29.1	18.3	19.4	19.2	20.3	21.5
3H	31.1	32.0	32.0	32.9	34.2	19.3	20.2	20.2	21.2	22.4
4H	33.7	34.5	34.6	35.5	36.8	19.7	20.5	20.6	21.5	22.7
6H	36.4	37.1	37.3	38.1	39.4	19.9	20.6	20.8	21.6	22.9
8H	37.7	38.4	38.7	39.4	40.8	20.0	20.7	20.9	21.7	23.0
12H	39.3	40.0	40.3	41.0	42.3	20.0	20.7	21.0	21.7	23.0
8H 4H	33.7	34.4	34.7	35.4	36.7	25.2	25.9	26.1	26.9	28.2
6H	36.8	37.4	37.8	38.4	39.7	25.8	26.4	26.7	27.4	28.7
8H	38.5	39.1	39.5	40.1	41.4	25.9	26.5	26.9	27.5	28.9
12H	40.5	41.0	41.5	42.0	43.4	26.0	26.5	27.0	27.5	28.9
12H 4H	33.6	34.3	34.6	35.3	36.6	27.2	27.9	28.2	28.9	30.2
6H	36.8	37.3	37.8	38.3	39.7	28.2	28.7	29.1	29.7	31.1
8H	38.6	39.1	39.6	40.1	41.5	28.5	29.0	29.5	30.1	31.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.1				
2.0H	+ 0.3 / - 0.4					+ 0.5 / - 0.4				

CIE Pub.117, 1551 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.5)
Area: 0.007693 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Hill
Test Date:2024-09-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:46%
Test Distance:2.519m [K=1.0000]
Remarks: 5000K

UTILIZATION FACTORS TABLE

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm		
NAME: ASD-LCLS-2A-18BK-PC 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminire	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

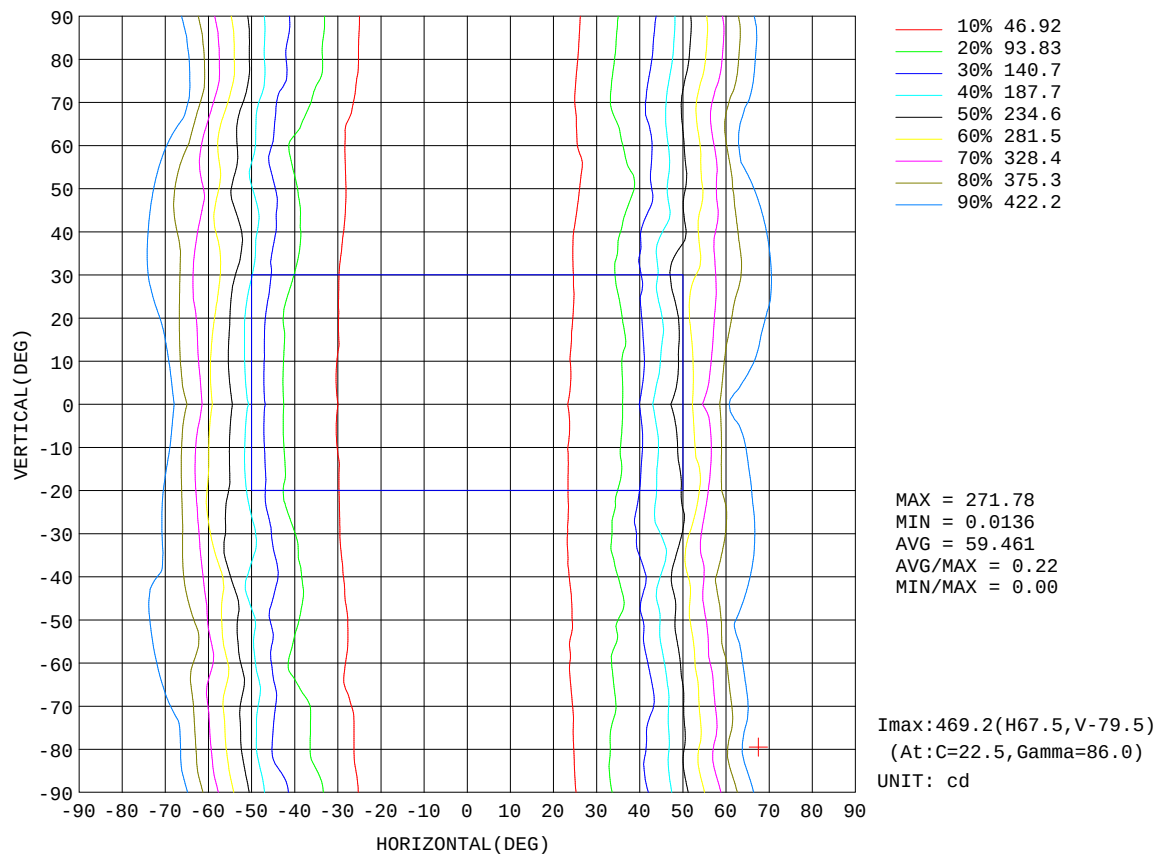
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	31	18	10	30	17	10	27	15	9	2
0.80	39	24	15	37	23	14	32	20	12	3
1.00	46	30	20	43	28	19	37	27	16	5
1.25	52	36	26	49	34	24	42	30	21	8
1.50	58	42	31	53	39	29	45	34	25	10
2.00	66	51	40	61	47	37	51	40	32	14
2.50	71	57	46	66	53	43	55	45	37	17
3.00	76	63	52	70	58	49	59	49	42	20
4.00	82	70	61	75	65	56	63	55	48	24
5.00	86	76	67	79	70	62	66	59	53	27
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:24.8DEG
Operators:Hill
Test Date:2024-09-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:46%
Test Distance:2.519m [K=1.0000]
Remarks: 5000K

ISOCANDELA DIAGRAM

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm		
NAME: ASD-LCLS-2A-18BK-PC 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminire	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

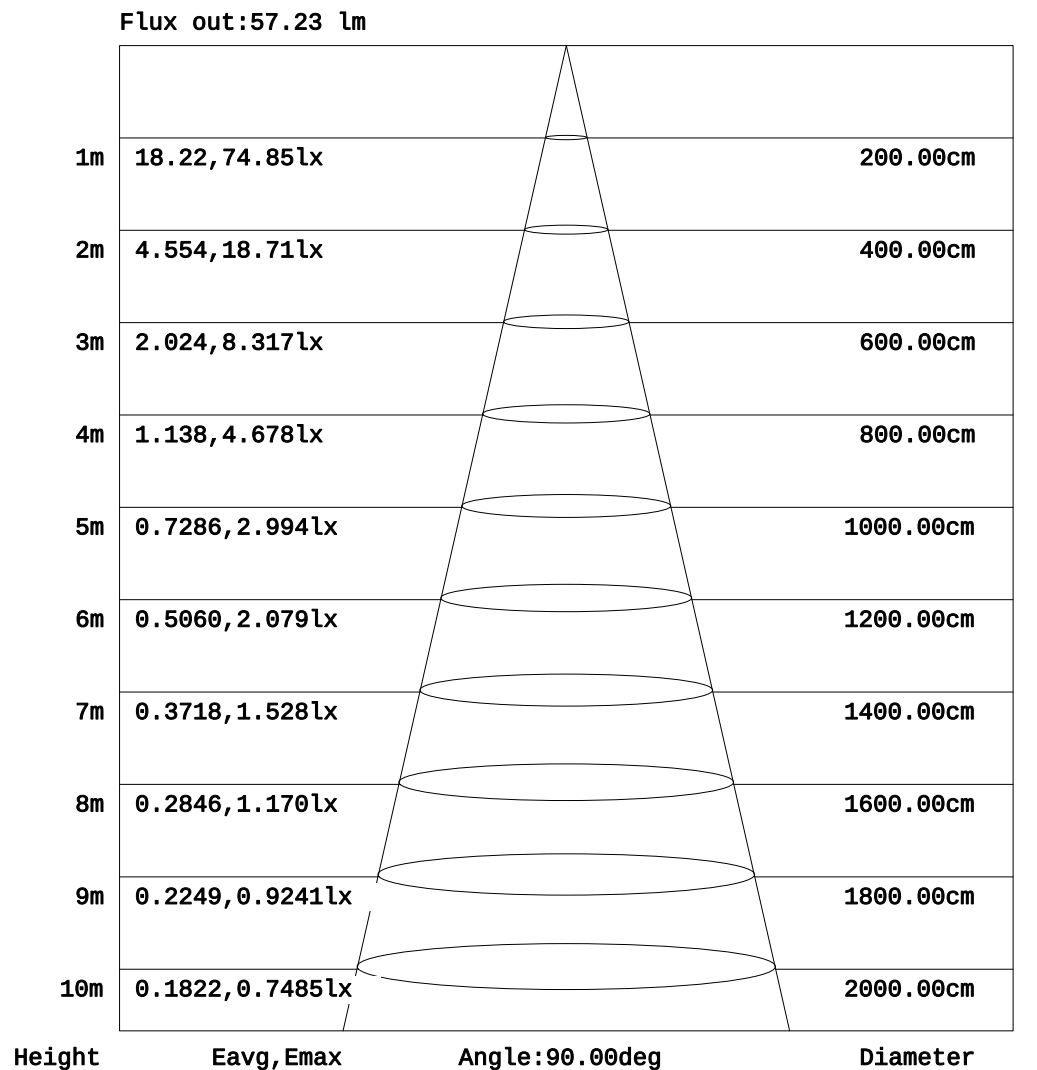


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Hill
Test Date: 2024-09-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 46%
Test Distance: 2.519m [K=1.0000]
Remarks: 5000K

AAI Figure

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm		
NAME:ASD-LCLS-2A-18BK-PC 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminire	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



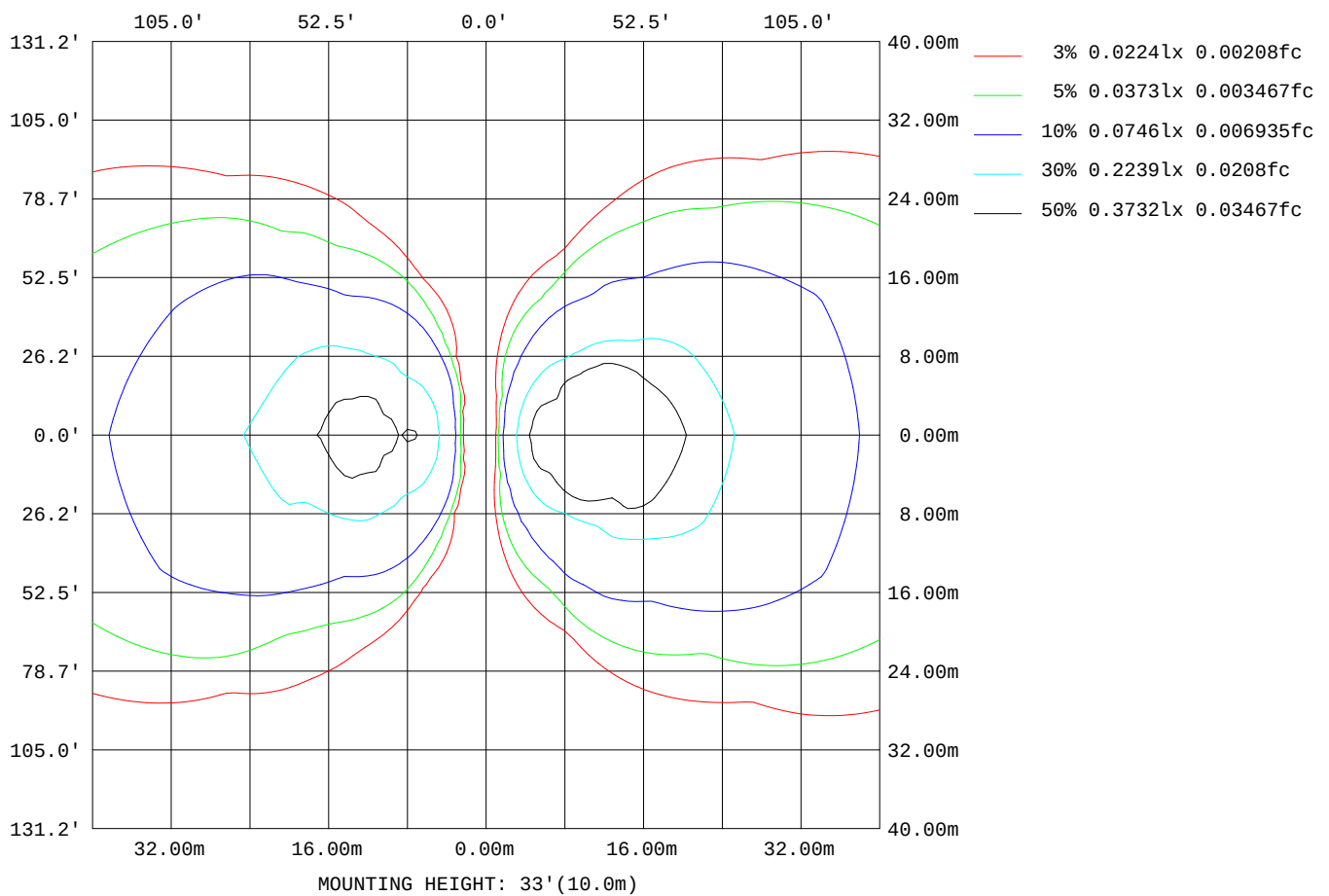
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Hill
Test Date:2024-09-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:46%
Test Distance:2.519m [K=1.0000]
Remarks: 5000K

ISOLUX DIAGRAM

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm		
NAME:ASD-LCLS-2A-18BK-PC 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminire	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:24.8DEG
Operators:Hill
Test Date:2024-09-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:46%
Test Distance:2.519m [K=1.0000]
Remarks: 5000K

LED Avg.L Report

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm		
NAME: ASD-LCLS-2A-18BK-PC 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminire	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

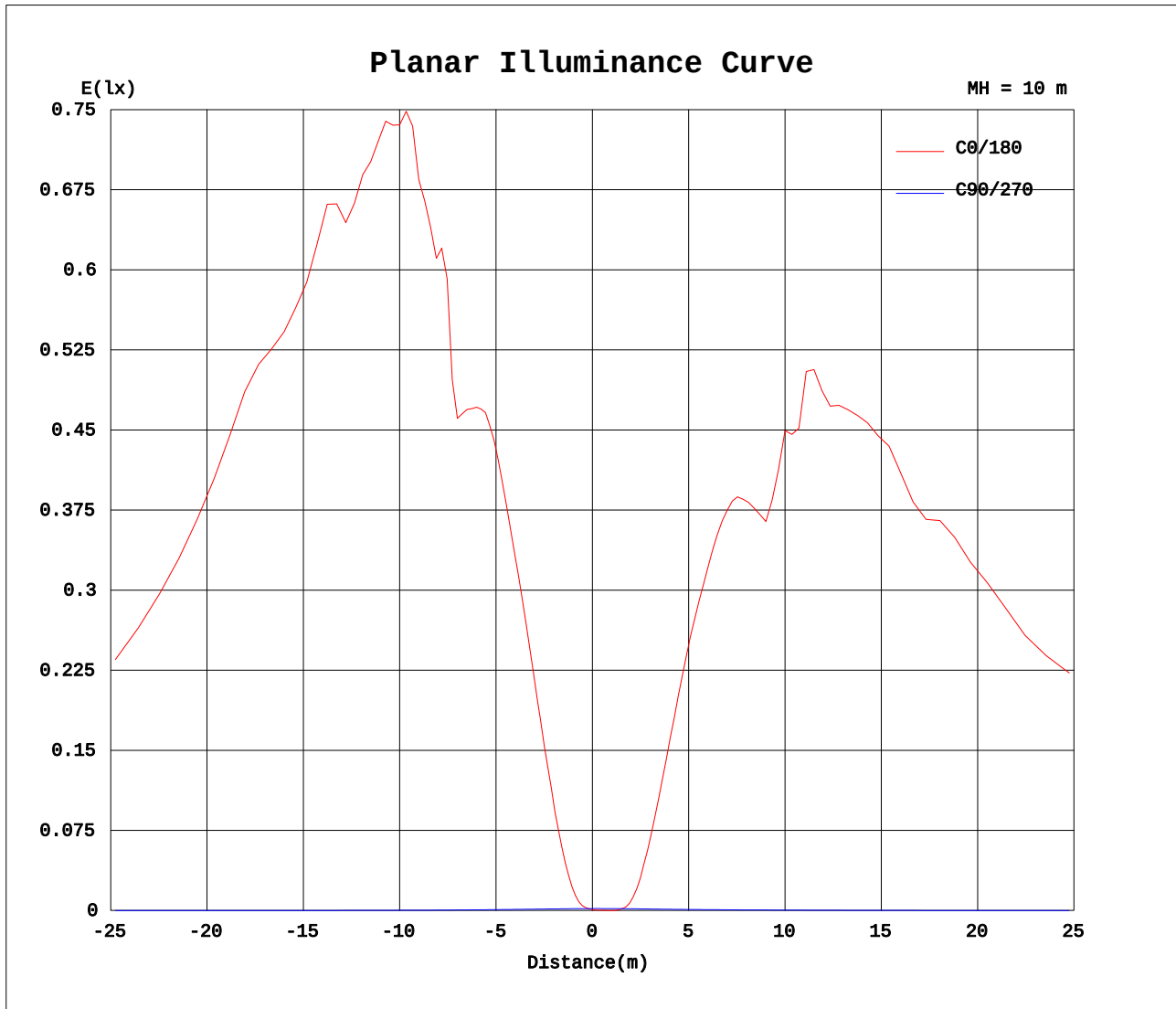
AvgL	cd/m2
L_0~180(65)av	125063
L_0~180(75)av	229744
L_0~180(85)av	675760
L_90~270(65)av	21
L_90~270(75)av	27
L_90~270(85)av	68
L_45(65)av	31176
L_45(75)av	68052
L_45(85)av	227743

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Hill
Test Date:2024-09-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:46%
Test Distance:2.519m [K=1.0000]
Remarks: 5000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Hill
Test Date: 2024-09-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 46%
Test Distance: 2.519m [K=1.0000]
Remarks: 5000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.1505A P:17.700W PF:0.9846 Freq:60.00Hz Lamp Flux:1502.68x1 lm																	
NAME: ASD-LCLS-2A-18BK-PC 5000K									TYPE: N/A						WEIGHT: N/A		
SPEC.:LED Luminire									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	0.09	0.08	0.11	0.15	0.19	0.16	0.10	0.07	0.09	0.08	0.11	0.15	0.19	0.16	0.10	0.07			
5	1.43	1.08	0.65	0.32	0.18	0.11	0.05	0.02	0.01	0.02	0.04	0.11	0.19	0.32	0.50	0.96			
10	7.97	6.48	3.40	0.71	0.17	0.09	0.08	0.29	0.40	0.28	0.06	0.10	0.18	0.67	2.82	5.99			
15	19.6	16.3	9.01	1.85	0.16	0.09	0.77	3.50	4.84	3.47	0.69	0.09	0.17	1.62	7.99	15.5			
20	35.2	29.8	17.0	3.72	0.15	0.14	3.92	11.8	14.9	11.7	3.71	0.18	0.16	3.21	15.1	28.5			
25	53.8	45.8	26.6	6.26	0.13	0.37	9.77	24.0	29.5	23.7	9.57	0.45	0.15	5.33	24.0	43.8			
30	72.3	66.1	37.4	9.31	0.12	1.09	17.9	39.2	47.1	38.8	17.7	1.30	0.15	7.88	33.9	61.6			
35	83.9	79.9	48.8	12.6	0.10	2.54	27.7	56.8	68.2	56.2	27.4	2.91	0.14	10.6	44.3	75.2			
40	142	106	61.3	16.0	0.09	4.66	38.5	75.6	83.9	73.1	38.2	5.20	0.14	13.6	56.0	95.4			
45	208	155	71.0	19.5	0.08	7.31	49.9	86.1	127	84.8	49.8	8.01	0.13	16.5	67.2	146			
50	260	207	78.1	22.8	0.07	10.3	62.2	130	183	130	61.9	11.2	0.12	19.2	73.2	205			
55	331	221	87.0	25.8	0.06	13.5	75.7	187	242	175	72.2	14.6	0.11	21.7	78.6	267			
60	409	322	108	28.3	0.04	16.8	84.9	214	293	243	79.1	18.0	0.11	23.9	83.0	272			
65	438	364	126	30.4	0.04	20.0	86.2	283	376	275	84.8	21.4	0.10	25.7	109	325			
70	450	400	131	31.9	0.03	23.0	99.1	327	449	316	105	24.4	0.08	27.0	129	363			
75	451	425	137	32.8	0.03	25.7	126	388	464	340	128	27.4	0.07	27.7	151	414			
80	451	433	155	33.1	0.04	27.9	130	397	461	412	154	29.5	0.06	28.0	152	446			
85	450	466	164	32.7	0.04	29.6	140	428	456	458	157	31.4	0.05	27.8	150	427			
90	449	436	158	31.7	0.04	30.9	161	457	456	438	163	32.6	0.05	27.1	147	434			
95	449	426	145	30.3	0.04	31.6	158	453	455	436	163	33.3	0.05	25.7	134	436			
100	448	403	129	28.2	0.04	31.6	144	428	457	459	171	33.5	0.05	24.1	123	370			
105	438	381	124	25.8	0.04	31.1	132	400	457	417	163	32.7	0.05	21.9	103	331			
110	418	319	96.2	22.9	0.04	29.9	129	391	462	361	149	31.6	0.05	19.5	80.6	303			
115	337	251	81.2	19.8	0.05	28.3	111	335	444	333	125	29.8	0.05	16.8	75.6	265			
120	288	209	76.5	16.5	0.05	26.1	89.9	300	381	280	95.3	27.5	0.04	14.0	70.4	216			
125	218	170	67.5	13.2	0.05	23.5	83.6	215	329	272	80.7	24.8	0.04	11.1	63.6	155			
130	170	118	56.8	10.0	0.05	20.5	76.1	200	259	201	75.8	21.8	0.05	8.40	54.0	103			
135	97.0	75.8	45.1	7.07	0.06	17.3	68.2	141	197	143	69.2	18.5	0.05	5.80	43.0	75.3			
140	73.0	65.8	34.5	4.47	0.07	14.1	56.7	85.6	142	88.3	57.9	15.1	0.06	3.60	32.9	64.8			
145	58.8	49.6	24.3	2.40	0.09	10.9	44.9	76.6	82.5	74.8	46.5	11.7	0.06	1.87	23.4	48.8			
150	40.6	34.0	15.3	1.04	0.10	7.87	34.1	60.6	70.8	61.4	35.7	8.57	0.07	0.79	14.9	33.5			
155	25.0	20.4	8.11	0.42	0.11	5.19	23.9	42.9	52.3	43.8	25.2	5.66	0.07	0.34	7.87	20.2			
160	12.2	9.55	2.95	0.21	0.11	2.99	14.8	27.8	34.4	28.7	15.9	3.31	0.08	0.17	2.95	9.59			
165	3.58	2.60	0.55	0.13	0.11	1.41	7.50	14.9	19.0	15.6	8.27	1.59	0.09	0.11	0.57	2.65			
170	0.36	0.29	0.13	0.10	0.11	0.51	2.58	5.56	7.59	6.10	3.00	0.57	0.09	0.09	0.13	0.30			
175	0.06	0.06	0.06	0.08	0.10	0.22	0.40	0.81	1.30	0.97	0.50	0.23	0.09	0.07	0.06	0.06			
180	0.06	0.06	0.05	0.05	0.06	0.05	0.04	0.04	0.06	0.06	0.05	0.05	0.06	0.05	0.04	0.04			

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