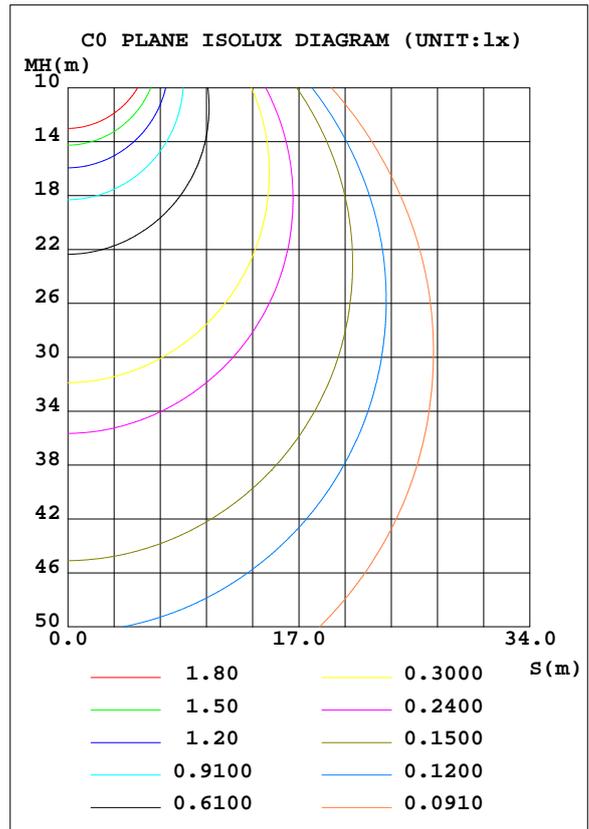
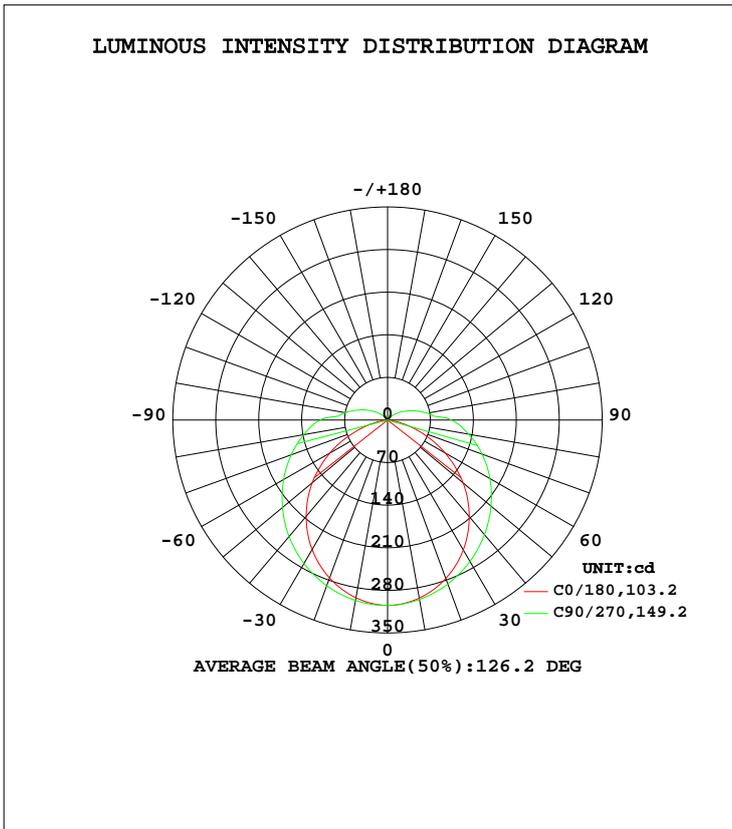


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME:ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.53 lm/W			
MODEL	ASD-OLWS-21-10N15BK-MS 5000K	I _{max} (cd)	304.7	S/MH(C0/180)	1.21
NOMINAL POWER(W)	15W	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1131.5	η UP, DN(C0-180)	5.2,45.2
NOMINAL FLUX(lm)	1131.51	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	4.9,44.7
LAMPS INSIDE	1	η up(%)	10.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	89.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [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	296.7	298.8	301.0	298.8	297.1	297.8	299.4	297.9	0- 10	28.77	28.77	2.54,2.54
20	276.4	282.8	289.9	282.7	277.2	280.9	286.8	280.9	10- 20	82.25	111.0	9.81,9.81
30	245.9	258.7	272.4	258.3	246.8	256.0	268.4	255.9	20- 30	124.9	235.9	20.8,20.8
40	206.4	228.0	249.9	227.3	207.3	225.2	245.8	225.1	30- 40	152.1	387.9	34.3,34.3
50	160.2	193.2	223.7	192.3	160.8	190.7	220.2	190.5	40- 50	161.7	549.7	48.6,48.6
60	108.8	157.0	195.8	155.6	108.4	155.0	192.7	154.7	50- 60	154.4	704.0	62.2,62.2
70	55.72	122.3	167.3	120.4	55.61	119.4	164.0	119.2	60- 70	133.3	837.4	74,74
80	12.96	90.97	138.9	88.69	13.83	87.44	134.0	87.28	70- 80	104.4	941.7	83.2,83.2
90	0.5432	64.92	109.6	61.73	0.5189	59.85	104.1	59.57	80- 90	75.42	1017	89.9,89.9
100	0.9118	40.71	70.34	39.34	0.8982	37.25	65.79	36.73	90-100	50.24	1067	94.3,94.3
110	1.727	21.16	48.71	20.47	1.755	19.25	44.79	18.58	100-110	29.23	1097	96.9,96.9
120	2.696	9.333	30.27	9.144	3.014	8.768	27.40	8.062	110-120	15.82	1112	98.3,98.3
130	3.510	3.299	15.39	3.658	4.178	3.664	14.01	3.021	120-130	8.163	1121	99,99
140	4.498	1.906	5.067	2.880	5.099	2.648	4.843	2.674	130-140	3.809	1124	99.4,99.4
150	5.489	3.284	2.766	4.620	5.759	5.027	3.392	4.745	140-150	2.379	1127	99.6,99.6
160	6.373	4.957	5.156	5.753	6.482	6.527	6.046	5.869	150-160	2.402	1129	99.8,99.8
170	5.996	5.934	6.716	6.673	6.717	6.961	7.094	6.320	160-170	1.812	1131	100,100
180	2.116	2.467	0.5203	2.495	2.115	2.464	0.5201	2.492	170-180	0.4936	1132	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 468.71 lm

%lum = 41.4%
%lamp = 41.4%

Conical surface Flux(120deg): 704.05 lm

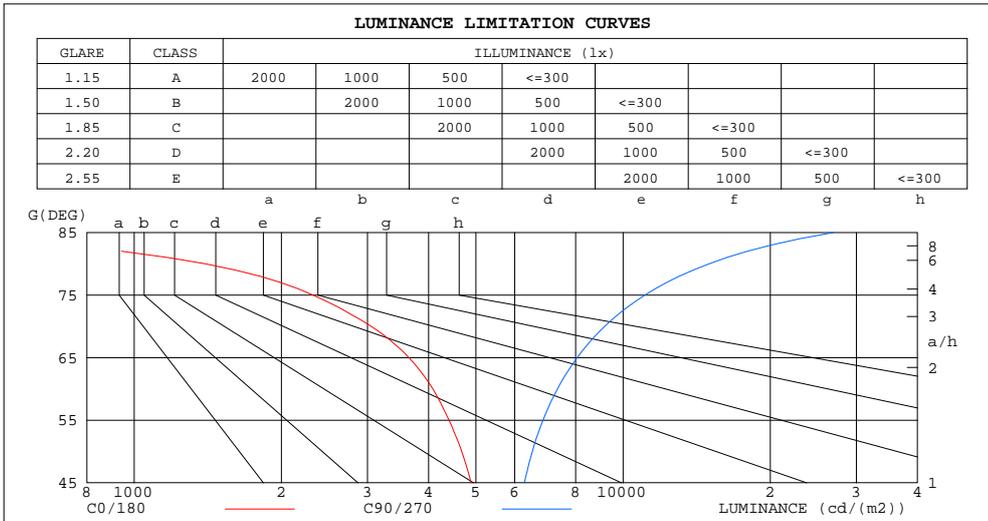
%lum = 62.2%
%lamp = 62.2%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME:ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	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	280	26916
80	1400	14986
75	2322	11076
70	3056	9165
65	3648	8053
60	4083	7339
55	4407	6856
50	4676	6521
45	4887	6284

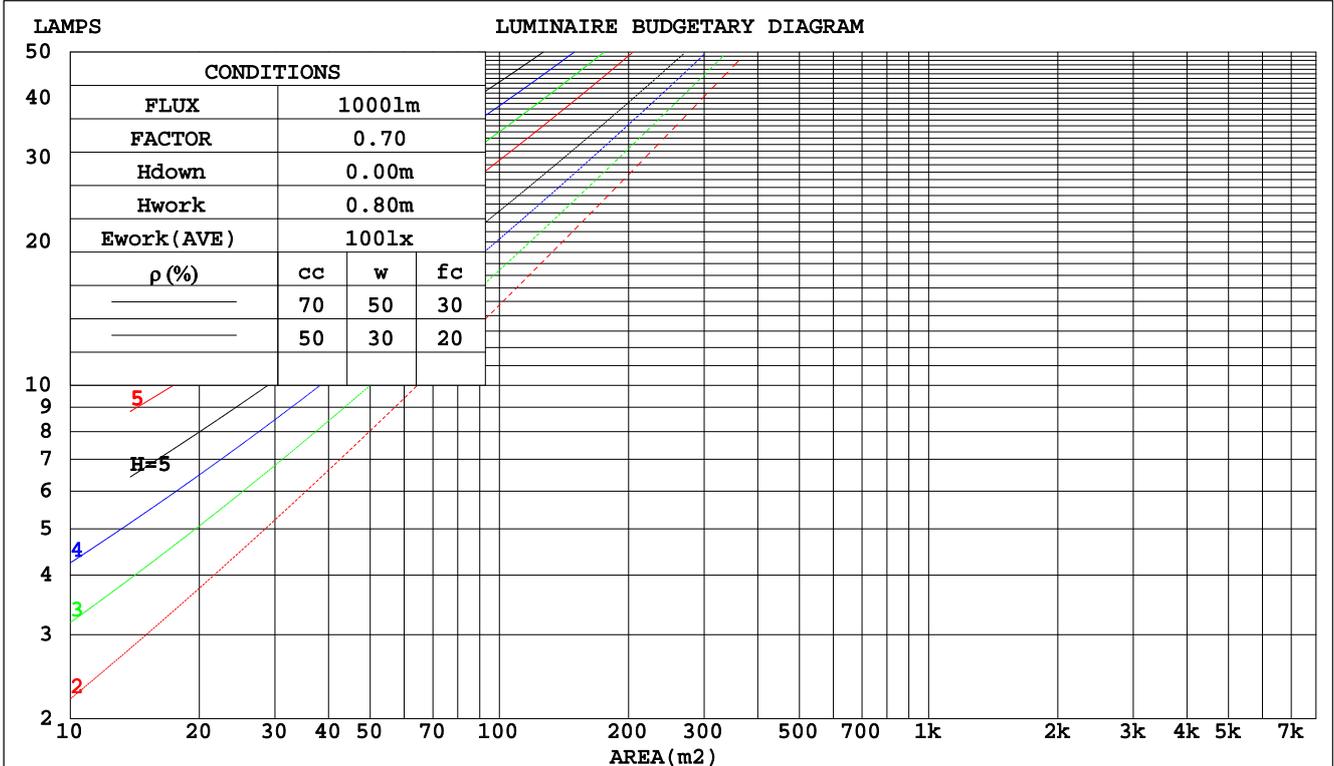
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME: ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	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																
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	.88	.95	.90	.86	.89	.85	.81	.83	.80	.77	.78	.75	.73	.70
2.0	.84	.77	.70	.82	.74	.69	.76	.70	.65	.71	.67	.62	.67	.63	.59	.57
3.0	.73	.65	.57	.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	.47	.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	.41	.34	.29	.38	.33	.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	.25	.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	.25	.20	.19



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz		
Lamp Flux:1131.5lx1 lm		
NAME: ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	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	.373	.212	.067	.363	.207	.066	.343	.197	.063	.326	.188	.060	.309	.179	.058	
2.0	.327	.179	.055	.318	.175	.054	.300	.167	.052	.284	.160	.050	.270	.153	.048	
3.0	.292	.156	.047	.284	.152	.046	.269	.146	.044	.254	.139	.043	.241	.133	.041	
4.0	.264	.137	.040	.257	.134	.040	.243	.129	.038	.230	.123	.037	.218	.118	.036	
5.0	.241	.123	.036	.234	.120	.035	.222	.115	.034	.210	.111	.033	.199	.106	.032	
6.0	.221	.111	.032	.215	.109	.031	.204	.104	.030	.193	.100	.029	.183	.096	.029	
7.0	.204	.101	.029	.199	.099	.028	.189	.095	.027	.179	.092	.027	.170	.088	.026	
8.0	.190	.093	.026	.185	.091	.026	.175	.088	.025	.167	.084	.024	.158	.081	.024	
9.0	.177	.086	.024	.173	.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	.267	.267	.267	.229	.229	.229	.156	.156	.156	.090	.090	.090	.029	.029	.029	
1.0	.262	.233	.207	.224	.200	.178	.154	.138	.123	.088	.080	.072	.028	.026	.023	
2.0	.255	.210	.172	.218	.181	.149	.150	.125	.104	.086	.073	.061	.028	.024	.020	
3.0	.247	.193	.150	.212	.167	.130	.146	.116	.091	.084	.068	.054	.027	.022	.018	
4.0	.239	.180	.135	.206	.156	.117	.141	.109	.083	.082	.064	.049	.026	.021	.016	
5.0	.232	.170	.125	.199	.147	.109	.137	.103	.077	.079	.060	.045	.026	.020	.015	
6.0	.224	.162	.117	.193	.140	.102	.133	.098	.072	.077	.058	.043	.025	.019	.014	
7.0	.217	.155	.112	.187	.135	.098	.129	.094	.069	.075	.056	.041	.024	.018	.014	
8.0	.210	.150	.108	.181	.130	.094	.125	.091	.067	.073	.054	.040	.024	.018	.013	
9.0	.204	.145	.105	.176	.126	.091	.122	.088	.065	.071	.052	.039	.023	.017	.013	
10.0	.198	.141	.102	.171	.122	.089	.119	.086	.063	.069	.051	.038	.022	.017	.013	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME: ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	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	16.6	18.1	17.0	18.4	18.8	18.9	20.4	19.3	20.7	21.1
3H	17.8	19.1	18.2	19.6	20.0	21.5	22.8	21.9	23.2	23.7
4H	18.2	19.5	18.6	19.9	20.4	22.9	24.2	23.3	24.6	25.1
6H	18.4	19.6	18.8	20.0	20.5	24.4	25.7	24.9	26.1	26.6
8H	18.4	19.5	18.9	20.0	20.5	25.3	26.5	25.8	26.9	27.4
12H	18.3	19.5	18.8	19.9	20.5	26.3	27.4	26.8	27.9	28.4
4H 2H	17.7	19.0	18.2	19.4	19.9	19.4	20.7	19.9	21.1	21.6
3H	19.2	20.3	19.7	20.8	21.3	22.2	23.4	22.7	23.8	24.4
4H	19.8	20.8	20.3	21.3	21.9	23.9	24.9	24.4	25.4	25.9
6H	20.2	21.1	20.7	21.6	22.2	25.6	26.6	26.2	27.1	27.7
8H	20.2	21.1	20.8	21.7	22.3	26.6	27.5	27.2	28.0	28.7
12H	20.3	21.1	20.8	21.6	22.3	27.8	28.6	28.4	29.1	29.8
8H 4H	20.9	21.8	21.5	22.3	22.9	24.1	25.0	24.7	25.6	26.2
6H	21.6	22.4	22.2	23.0	23.6	26.2	27.0	26.8	27.5	28.2
8H	21.9	22.6	22.5	23.2	23.9	27.4	28.1	28.1	28.7	29.4
12H	22.1	22.7	22.7	23.3	24.0	28.9	29.4	29.5	30.1	30.7
12H 4H	21.3	22.1	21.8	22.6	23.2	24.1	25.0	24.7	25.5	26.1
6H	22.3	22.9	22.9	23.5	24.2	26.3	27.0	26.9	27.6	28.2
8H	22.7	23.3	23.4	23.9	24.6	27.6	28.2	28.3	28.8	29.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 1132 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.4)
Area: 0.05336 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME:ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

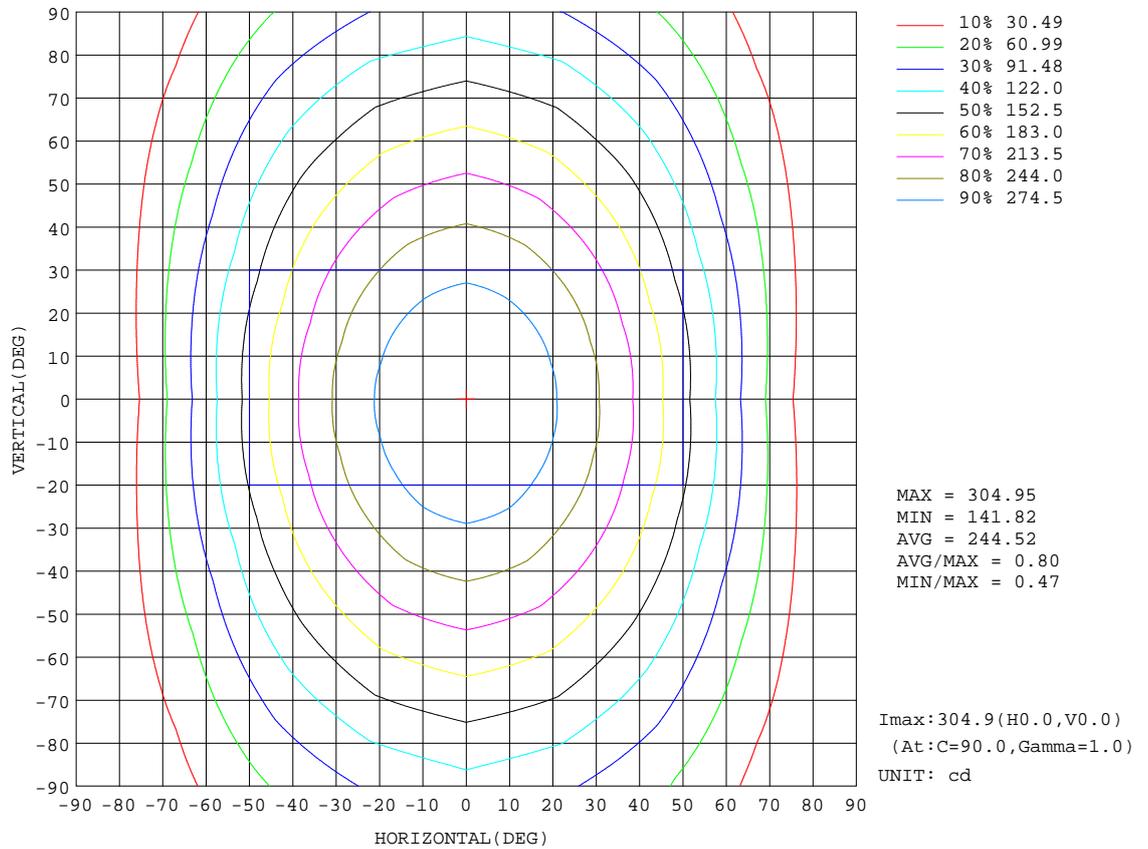
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	51	39	32	50	39	32	49	38	31	25
0.80	61	48	40	59	47	40	57	46	39	32
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	75	68	80	72	66	56
2.50	92	82	75	89	80	73	84	77	71	60
3.00	95	87	80	92	85	78	87	81	75	64
4.00	100	93	86	97	90	84	91	85	81	69
5.00	103	96	91	99	94	89	93	89	84	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: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME:ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



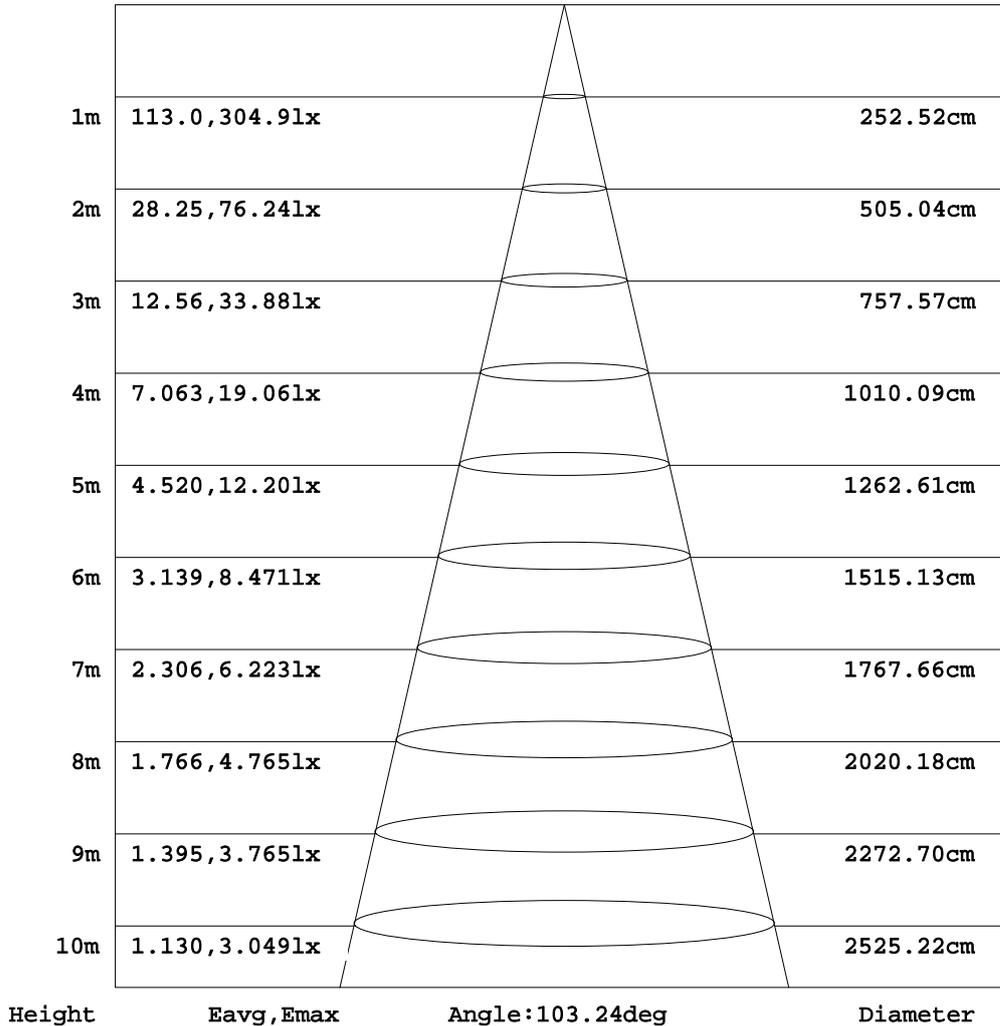
C Range: 0 - 360DEG
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 Temperature: 24.9DEG
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 47%
 Test Distance: 2.519m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME:ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

Flux out:581.6 lm



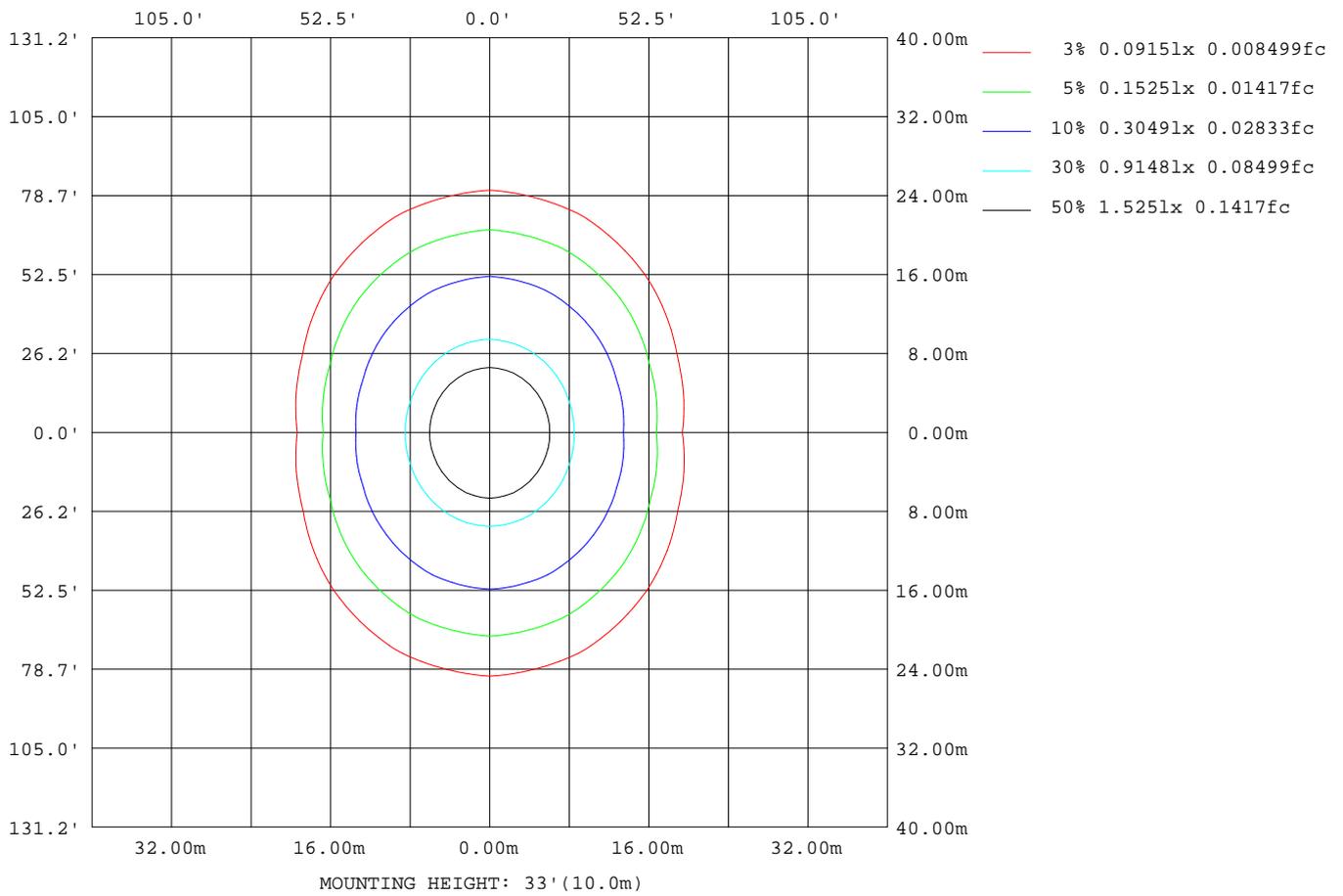
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME:ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	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:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME:ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
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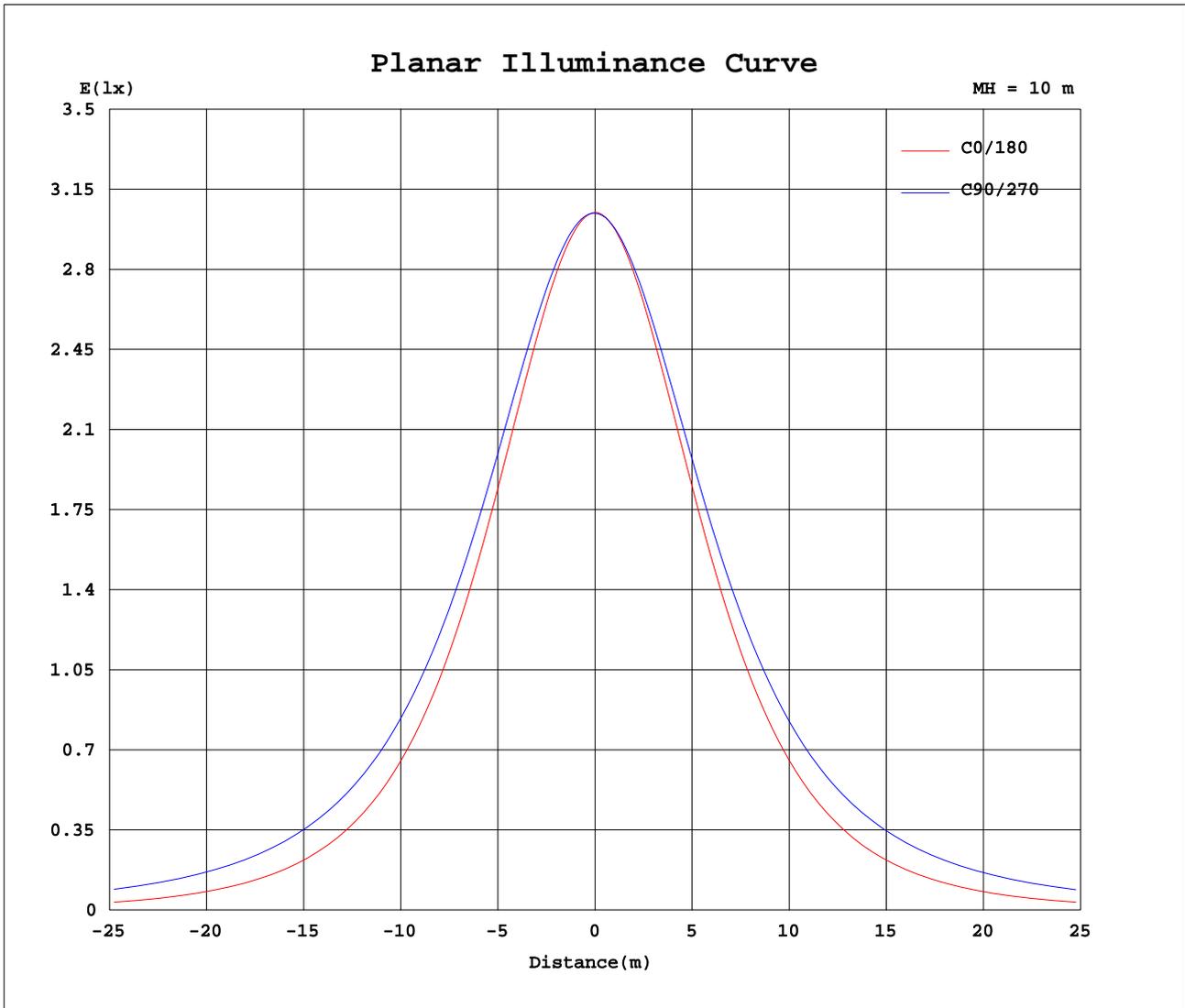
AvgL	cd/m2
L_0~180(65)av	3634
L_0~180(75)av	2312
L_0~180(85)av	313
L_90~270(65)av	7985
L_90~270(75)av	10949
L_90~270(85)av	26364
L_45(65)av	6094
L_45(75)av	7528
L_45(85)av	15980

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.1276A P:14.980W PF:0.9779 Freq:60.00Hz Lamp Flux:1131.5lx1 lm		
NAME:ASD-OLWS-21-10N15BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	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	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305			
5	302	303	303	304	304	304	303	303	303	302	303	303	303	303	303	303			
10	297	298	299	300	301	300	299	297	297	297	298	299	299	299	298	297			
15	288	290	292	295	296	295	292	289	289	289	290	292	294	292	290	289			
20	276	279	283	288	290	288	283	279	277	278	281	284	287	284	281	278			
25	262	266	272	279	282	278	271	265	263	264	269	275	278	275	269	264			
30	246	250	259	268	272	268	258	250	247	248	256	264	268	264	256	248			
35	227	233	244	256	262	256	244	232	228	231	241	252	258	252	241	231			
40	206	214	228	243	250	243	227	213	207	211	225	239	246	239	225	212			
45	184	193	211	229	237	229	210	192	185	191	208	225	233	225	208	191			
50	160	172	193	215	224	214	192	170	161	169	191	211	220	210	190	169			
55	135	149	175	199	210	199	174	148	135	147	173	196	207	196	173	147			
60	109	126	157	184	196	184	156	123	108	124	155	181	193	181	155	124			
65	82.2	104	139	169	182	169	138	101	81.7	102	136	166	179	166	136	102			
70	55.7	82.6	122	154	167	153	120	79.7	55.6	80.9	119	151	164	150	119	81.1			
75	32.0	63.2	106	139	153	138	104	60.2	31.8	61.6	103	135	149	135	103	61.6			
80	13.0	46.7	91.0	124	139	123	88.7	43.6	13.8	44.5	87.4	120	134	120	87.3	44.4			
85	1.30	32.8	76.8	110	125	109	74.7	30.2	1.61	30.8	73.0	105	120	105	72.8	30.3			
90	0.54	22.2	64.9	96.2	110	95.0	61.7	20.3	0.52	20.4	59.9	91.3	104	91.1	59.6	19.8			
95	0.65	14.6	51.9	82.2	79.7	81.1	50.2	13.4	0.61	13.1	48.2	76.9	75.4	76.6	47.8	12.5			
100	0.91	9.16	40.7	64.6	70.3	63.9	39.3	8.36	0.90	8.18	37.2	59.9	65.8	59.2	36.7	7.65			
105	1.26	5.42	30.1	48.8	59.1	48.3	29.2	4.97	1.28	4.84	27.4	44.8	55.1	44.1	26.7	4.43			
110	1.73	2.96	21.2	37.8	48.7	37.3	20.5	2.75	1.75	2.72	19.3	34.3	44.8	33.6	18.6	2.45			
115	2.25	1.53	14.2	29.7	39.4	29.3	13.8	1.60	2.36	1.54	13.2	26.7	35.7	26.2	12.4	1.34			
120	2.70	1.26	9.33	22.8	30.3	22.6	9.14	1.74	3.01	1.41	8.77	20.5	27.4	19.9	8.06	1.45			
125	3.09	1.61	5.92	16.5	22.2	16.5	6.05	2.55	3.62	2.26	5.80	15.0	20.2	14.4	5.18	2.31			
130	3.51	2.03	3.30	11.0	15.4	11.2	3.66	3.51	4.18	3.26	3.66	10.2	14.0	9.67	3.02	3.07			
135	3.98	2.90	1.65	6.56	9.61	6.79	2.29	4.43	4.68	4.08	2.10	6.29	8.84	5.81	1.65	3.75			
140	4.50	3.66	1.91	3.09	5.07	3.46	2.88	5.07	5.10	4.80	2.65	3.28	4.84	2.83	2.67	4.33			
145	4.99	4.42	2.41	2.02	2.20	2.56	3.68	5.45	5.45	5.42	3.96	2.48	2.12	2.27	3.91	4.80			
150	5.49	5.00	3.28	2.63	2.77	3.26	4.62	5.91	5.76	5.99	5.03	4.04	3.39	3.89	4.74	5.31			
155	5.95	5.48	4.20	3.60	3.65	4.40	5.18	6.26	6.12	6.38	5.85	5.42	4.98	5.16	5.39	5.69			
160	6.37	5.92	4.96	4.92	5.16	5.60	5.75	6.73	6.48	6.68	6.53	6.47	6.05	5.88	5.87	6.04			
165	6.69	6.33	5.59	5.75	5.97	6.35	6.39	7.06	6.79	6.96	6.92	7.18	6.72	6.53	6.28	6.44			
170	6.00	6.03	5.93	5.27	6.72	5.97	6.67	6.90	6.72	6.91	6.96	6.79	7.09	6.24	6.32	6.21			
175	3.75	3.63	4.05	3.68	3.90	4.01	4.39	4.79	4.96	5.40	5.62	5.44	5.57	5.26	5.40	4.10			
180	2.12	2.20	2.47	2.27	0.52	2.25	2.49	2.21	2.12	2.20	2.46	2.27	0.52	2.26	2.49	2.21			

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