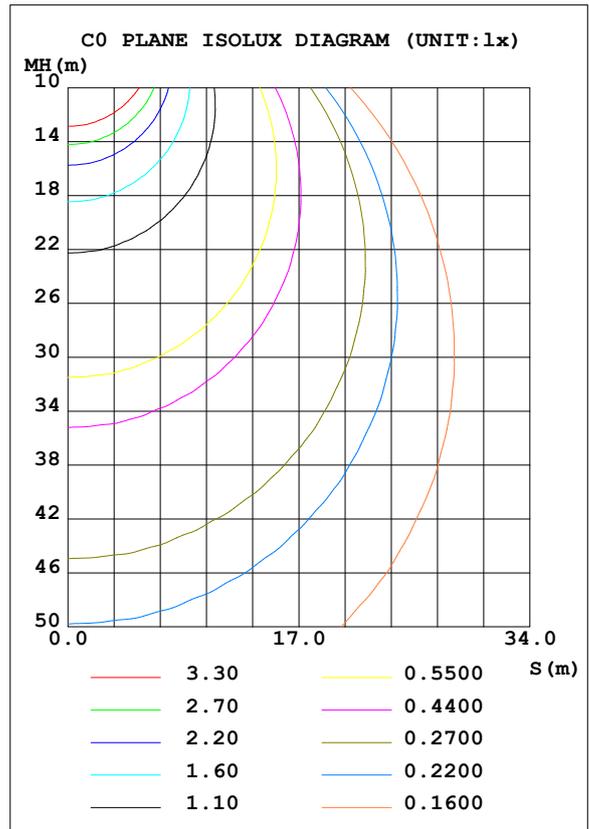
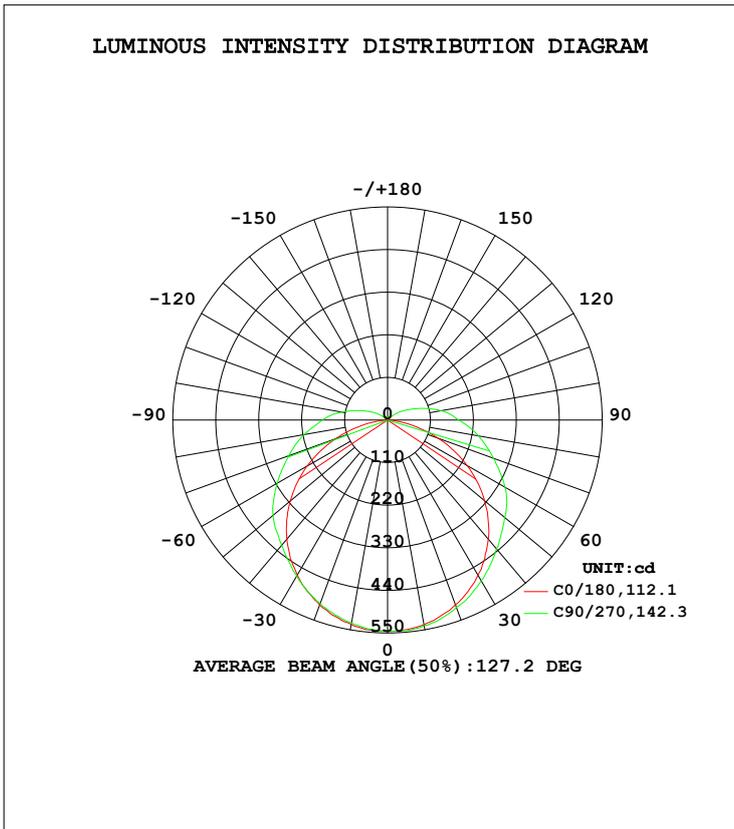


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	PRE-2402U81887E-EE	Imax (cd)	546.7	S/MH (C0/180)	1.26
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2066.1	η UP, DN (C0-180)	4.4, 44.5
NOMINAL FLUX (lm)	2066.05	CIE CLASS	DIRECT	η UP, DN (C180-360)	5.1, 46.0
LAMPS INSIDE	1	η up (%)	9.5	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	90.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Water
 Test Date: 2024-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 46%
 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	536.1	533.7	532.4	533.6	536.6	539.8	539.2	538.7	0- 10	51.62	51.62	2.5,2.5
20	508.4	504.1	503.9	503.4	508.2	513.3	515.0	514.4	10- 20	148.1	199.7	9.66,9.66
30	462.5	459.5	464.9	459.3	463.0	470.7	479.9	471.9	20- 30	225.7	425.4	20.6,20.6
40	401.8	405.0	421.6	404.7	401.7	416.2	434.3	418.4	30- 40	276.0	701.4	33.9,33.9
50	325.5	344.8	382.9	345.7	324.6	354.6	392.2	358.1	40- 50	296.2	997.6	48.3,48.3
60	238.0	286.6	326.4	289.1	235.5	293.5	347.4	299.1	50- 60	288.1	1286	62.2,62.2
70	141.9	218.2	269.3	220.5	137.8	231.0	288.8	237.5	60- 70	251.2	1537	74.4,74.4
80	49.51	158.0	217.3	161.5	46.06	168.4	236.2	175.7	70- 80	195.7	1733	83.9,83.9
90	0.3597	106.8	167.2	111.2	0.1796	115.5	182.4	122.6	80- 90	137.7	1870	90.5,90.5
100	1.258	62.07	119.1	65.85	1.074	73.44	139.6	80.35	90-100	92.27	1963	95,95
110	2.940	30.18	71.34	32.34	2.582	37.45	88.21	42.03	100-110	53.82	2016	97.6,97.6
120	4.634	8.193	37.65	9.517	4.058	15.10	49.28	18.62	110-120	26.86	2043	98.9,98.9
130	6.131	2.733	10.34	2.357	5.364	2.253	21.10	3.262	120-130	10.75	2054	99.4,99.4
140	7.509	4.019	2.878	3.159	6.659	1.749	2.814	1.868	130-140	3.610	2058	99.6,99.6
150	8.620	7.196	4.391	6.186	7.637	2.524	2.225	2.600	140-150	2.729	2060	99.7,99.7
160	8.904	9.678	8.604	9.335	8.167	4.993	3.354	4.932	150-160	2.838	2063	99.9,99.9
170	7.009	9.751	9.929	8.221	5.645	6.246	7.604	7.312	160-170	2.162	2065	100,100
180	7.805	7.115	4.937	7.210	7.805	7.094	4.924	7.193	170-180	0.6913	2066	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 848.75 lm

%lum = 41.1%
%lamp = 41.1%

Conical surface Flux(120deg): 1285.7 lm

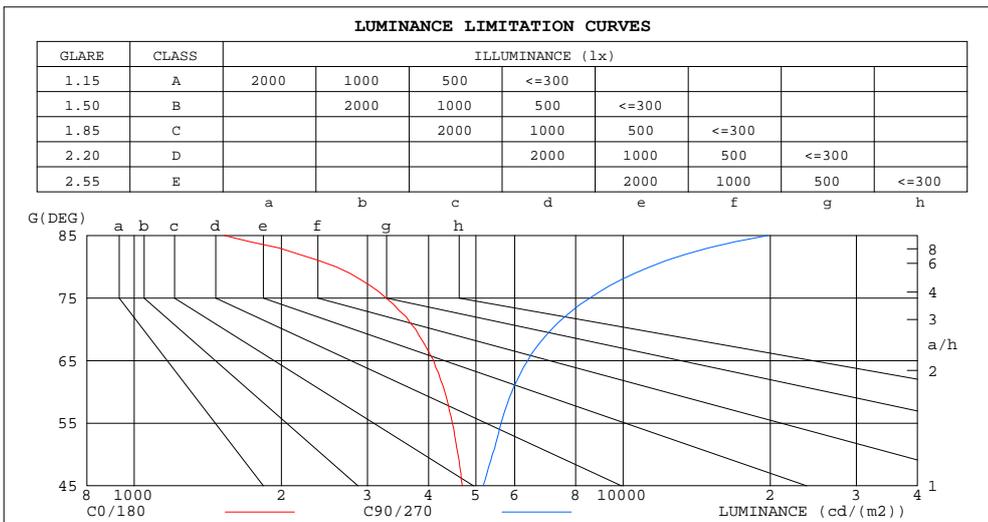
%lum = 62.2%
%lamp = 62.2%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-07-12

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

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	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	1531	19744
80	2588	11347
75	3276	8549
70	3765	7140
65	4099	6381
60	4320	5920
55	4477	5627
50	4595	5402
45	4690	5174

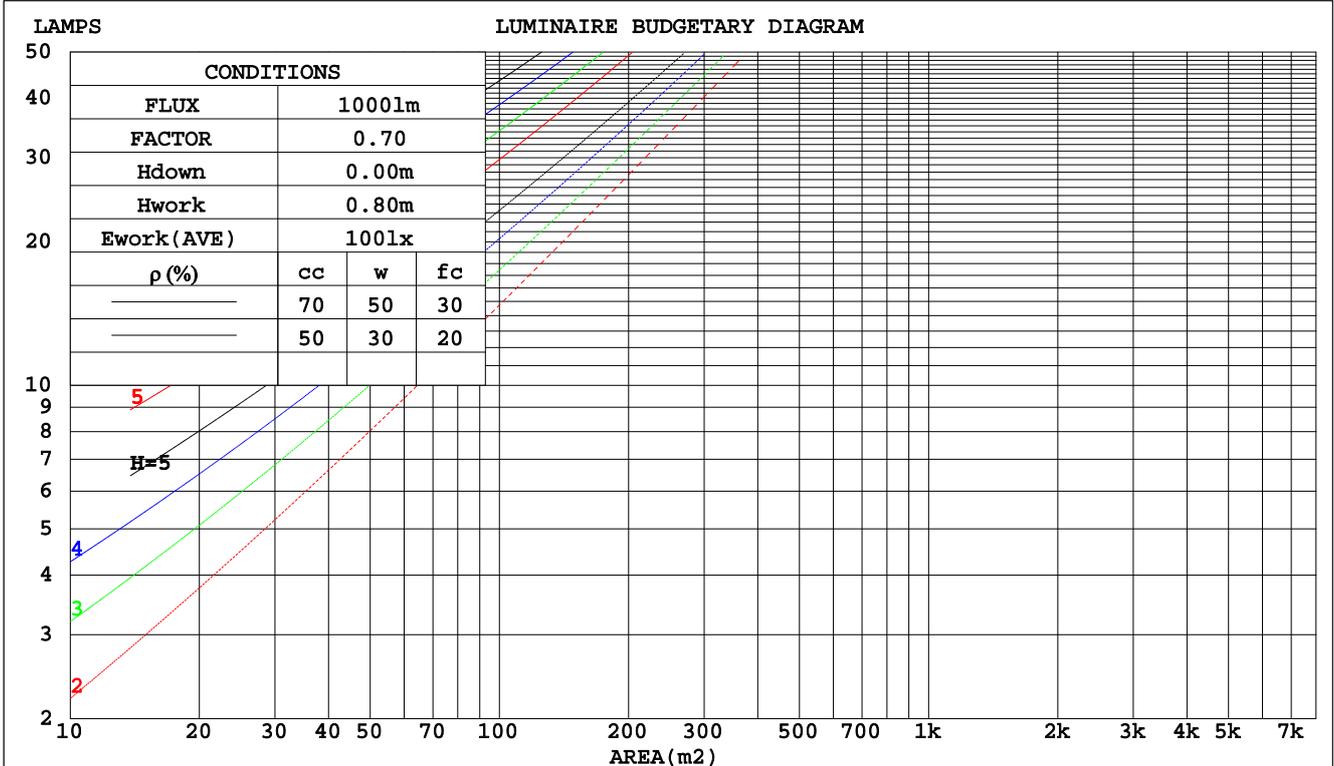
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Water
 Test Date: 2024-07-12

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

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.:ASD-OLWS-21GR-MV-24D25NK 5000K	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	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.91
1.0	.98	.93	.88	.95	.90	.86	.89	.85	.81	.83	.80	.77	.78	.76	.73	.70
2.0	.84	.76	.70	.81	.74	.68	.76	.70	.65	.72	.67	.62	.67	.63	.60	.57
3.0	.73	.64	.57	.71	.63	.56	.66	.60	.54	.62	.57	.52	.59	.54	.50	.47
4.0	.64	.55	.48	.62	.54	.47	.59	.51	.45	.55	.49	.44	.52	.46	.42	.39
5.0	.57	.48	.41	.56	.47	.40	.52	.45	.39	.49	.43	.37	.46	.41	.36	.34
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.34	.44	.38	.33	.42	.36	.32	.29
7.0	.46	.37	.31	.45	.37	.31	.43	.35	.30	.40	.34	.29	.38	.32	.28	.26
8.0	.42	.33	.27	.41	.33	.27	.39	.32	.26	.37	.30	.26	.35	.29	.25	.23
9.0	.39	.30	.25	.38	.30	.24	.36	.29	.24	.34	.28	.23	.32	.27	.22	.20
10.0	.36	.28	.22	.35	.27	.22	.33	.26	.21	.32	.25	.21	.30	.24	.20	.18



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Water
 Test Date:2024-07-12

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

WEC AND CCEC

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz		
Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.:ASD-OLWS-21GR-MV-24D25NK 5000K	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	.375	.213	.068	.365	.208	.066	.346	.199	.063	.329	.190	.061	.313	.181	.058	
2.0	.329	.180	.055	.320	.176	.054	.303	.169	.052	.287	.161	.050	.273	.154	.049	
3.0	.294	.157	.047	.286	.153	.046	.271	.147	.045	.257	.141	.043	.244	.135	.042	
4.0	.266	.138	.041	.259	.135	.040	.245	.130	.039	.232	.125	.038	.220	.120	.036	
5.0	.242	.124	.036	.236	.121	.035	.223	.116	.034	.212	.112	.033	.201	.107	.032	
6.0	.222	.112	.032	.217	.109	.031	.205	.105	.031	.195	.101	.030	.185	.097	.029	
7.0	.205	.102	.029	.200	.100	.028	.190	.096	.028	.180	.093	.027	.171	.089	.026	
8.0	.191	.093	.026	.186	.092	.026	.177	.088	.025	.168	.085	.025	.160	.082	.024	
9.0	.178	.086	.024	.173	.085	.024	.165	.082	.023	.157	.079	.023	.150	.076	.022	
10.0	.167	.080	.022	.163	.079	.022	.155	.076	.021	.147	.073	.021	.141	.071	.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	.263	.263	.263	.224	.224	.224	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.258	.228	.202	.220	.196	.174	.151	.135	.120	.087	.078	.070	.028	.025	.023	
2.0	.251	.205	.167	.215	.176	.144	.147	.122	.101	.085	.071	.059	.027	.023	.019	
3.0	.243	.188	.145	.208	.162	.125	.143	.113	.088	.083	.066	.052	.027	.021	.017	
4.0	.235	.175	.130	.202	.152	.113	.139	.106	.079	.080	.062	.047	.026	.020	.015	
5.0	.227	.165	.120	.195	.143	.104	.134	.100	.073	.078	.059	.044	.025	.019	.014	
6.0	.220	.157	.112	.189	.136	.098	.130	.095	.069	.076	.056	.041	.024	.018	.014	
7.0	.213	.150	.107	.183	.130	.093	.126	.091	.066	.073	.054	.039	.024	.018	.013	
8.0	.206	.145	.103	.177	.126	.090	.123	.088	.064	.071	.052	.038	.023	.017	.013	
9.0	.200	.140	.100	.172	.121	.087	.119	.085	.062	.069	.050	.037	.022	.017	.012	
10.0	.194	.136	.097	.167	.118	.085	.116	.083	.060	.068	.049	.036	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Water
 Test Date:2024-07-12

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

UGR(Unified Glare Rating) Table

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz		
Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	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	14.6	16.0	15.0	16.4	16.8	15.9	17.4	16.3	17.8	18.2
3H	16.1	17.4	16.5	17.8	18.3	18.3	19.7	18.8	20.1	20.6
4H	16.6	17.9	17.1	18.4	18.8	19.7	21.0	20.1	21.4	21.9
6H	17.0	18.2	17.5	18.7	19.2	21.1	22.4	21.6	22.8	23.3
8H	17.1	18.3	17.6	18.7	19.2	21.9	23.1	22.4	23.6	24.1
12H	17.1	18.3	17.6	18.7	19.2	22.8	24.0	23.3	24.4	25.0
4H 2H	15.5	16.8	16.0	17.2	17.7	16.5	17.8	17.0	18.2	18.7
3H	17.2	18.4	17.7	18.9	19.4	19.2	20.3	19.7	20.8	21.3
4H	18.0	19.0	18.5	19.5	20.1	20.7	21.7	21.2	22.2	22.8
6H	18.5	19.5	19.1	20.0	20.6	22.4	23.3	22.9	23.8	24.4
8H	18.7	19.6	19.3	20.1	20.7	23.3	24.2	23.8	24.7	25.3
12H	18.8	19.6	19.4	20.2	20.8	24.3	25.1	24.9	25.7	26.3
8H 4H	18.8	19.7	19.4	20.2	20.8	21.0	21.9	21.6	22.4	23.0
6H	19.7	20.4	20.3	21.0	21.6	23.0	23.7	23.6	24.3	24.9
8H	20.0	20.7	20.6	21.3	21.9	24.1	24.8	24.7	25.4	26.0
12H	20.3	20.9	20.9	21.5	22.2	25.4	26.0	26.1	26.6	27.3
12H 4H	19.1	19.9	19.6	20.4	21.1	21.0	21.9	21.6	22.4	23.0
6H	20.1	20.8	20.7	21.4	22.1	23.1	23.8	23.7	24.4	25.0
8H	20.7	21.2	21.3	21.8	22.5	24.3	24.9	25.0	25.5	26.2
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	+ 0.1 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 2066 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.5)
 Area: 0.1102 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Water
 Test Date:2024-07-12

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

UTILIZATION FACTORS TABLE

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

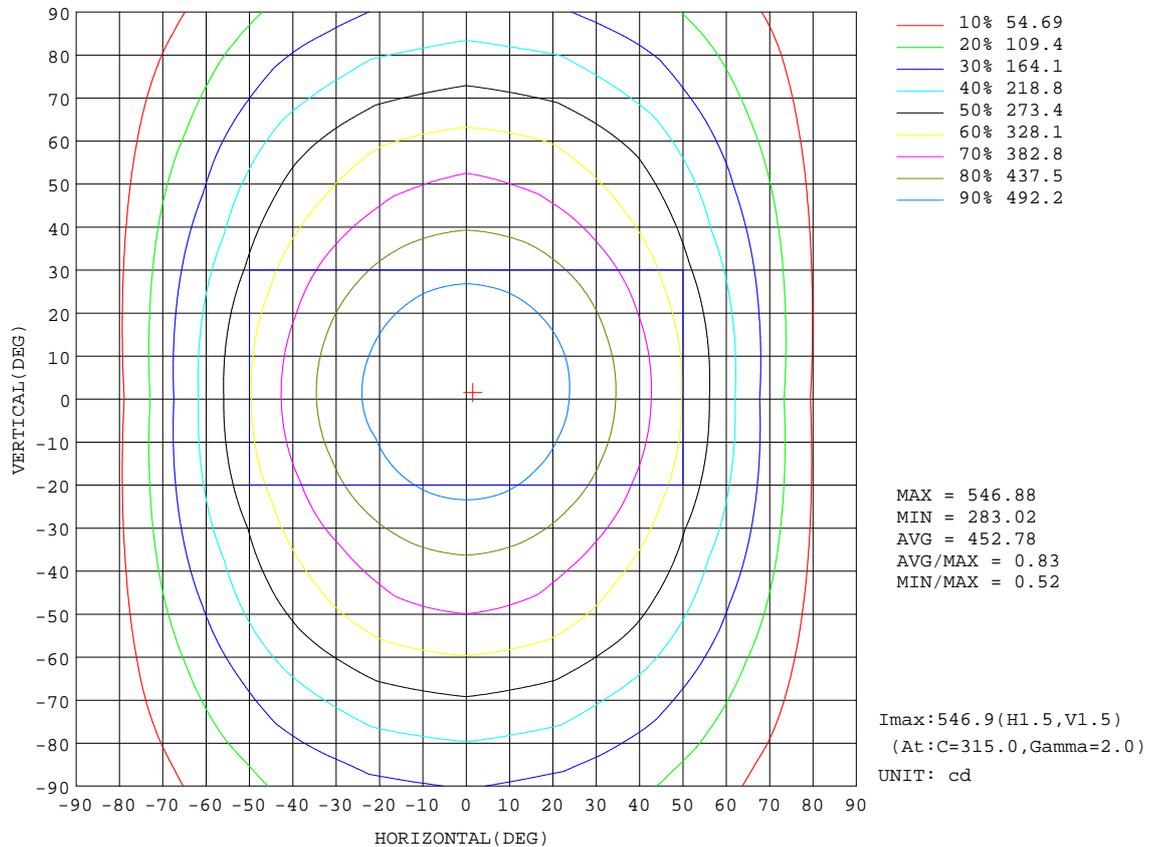
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	32	50	38	31	49	38	31	24
0.80	60	48	40	59	47	40	57	46	39	32
1.00	68	56	48	67	55	47	64	56	46	38
1.25	75	63	55	73	62	54	70	60	53	45
1.50	80	69	60	78	67	60	74	65	58	49
2.00	87	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	93	85	78	87	81	75	64
4.00	100	93	86	97	90	84	91	86	81	69
5.00	103	96	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: HIGH
 Temperature:25.1DEG
 Operators:Water
 Test Date:2024-07-12

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

ISOCANDELA DIAGRAM

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



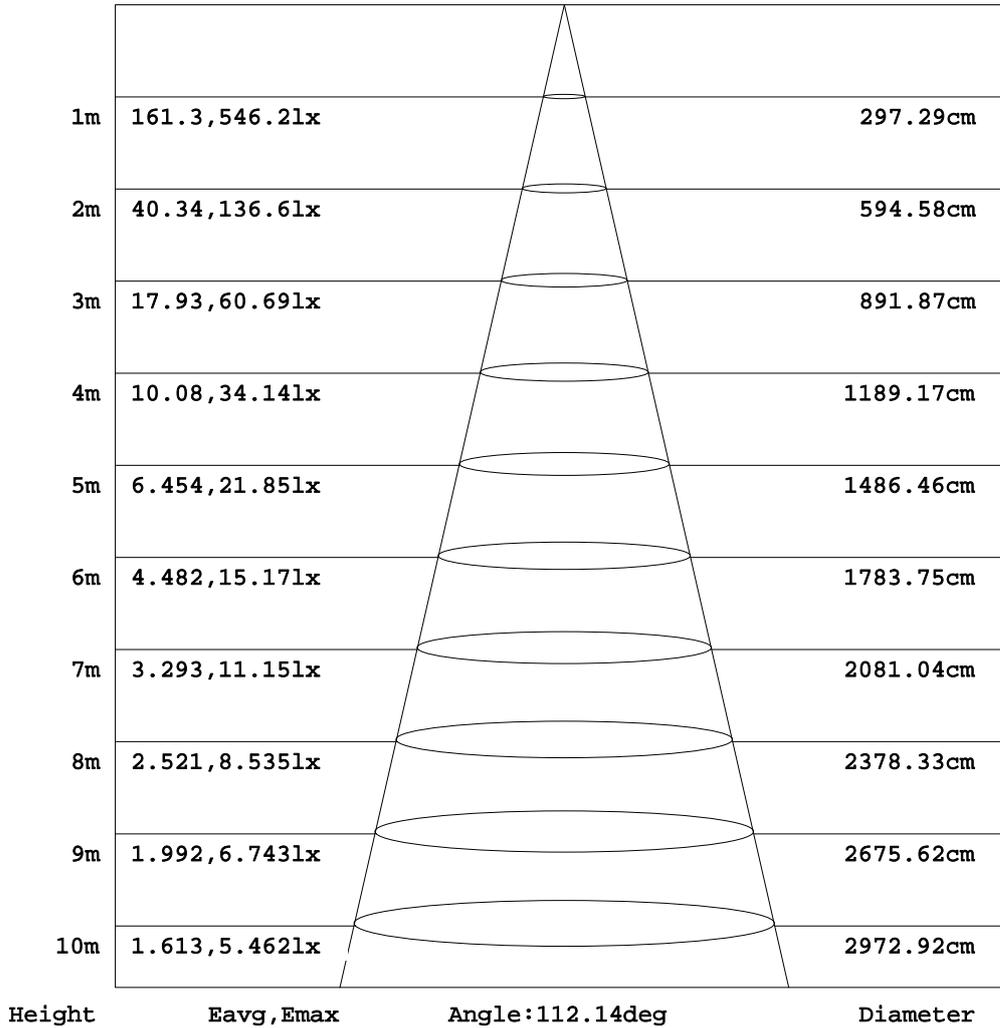
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Water
 Test Date:2024-07-12

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

AAI Figure

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

Flux out:1202 lm



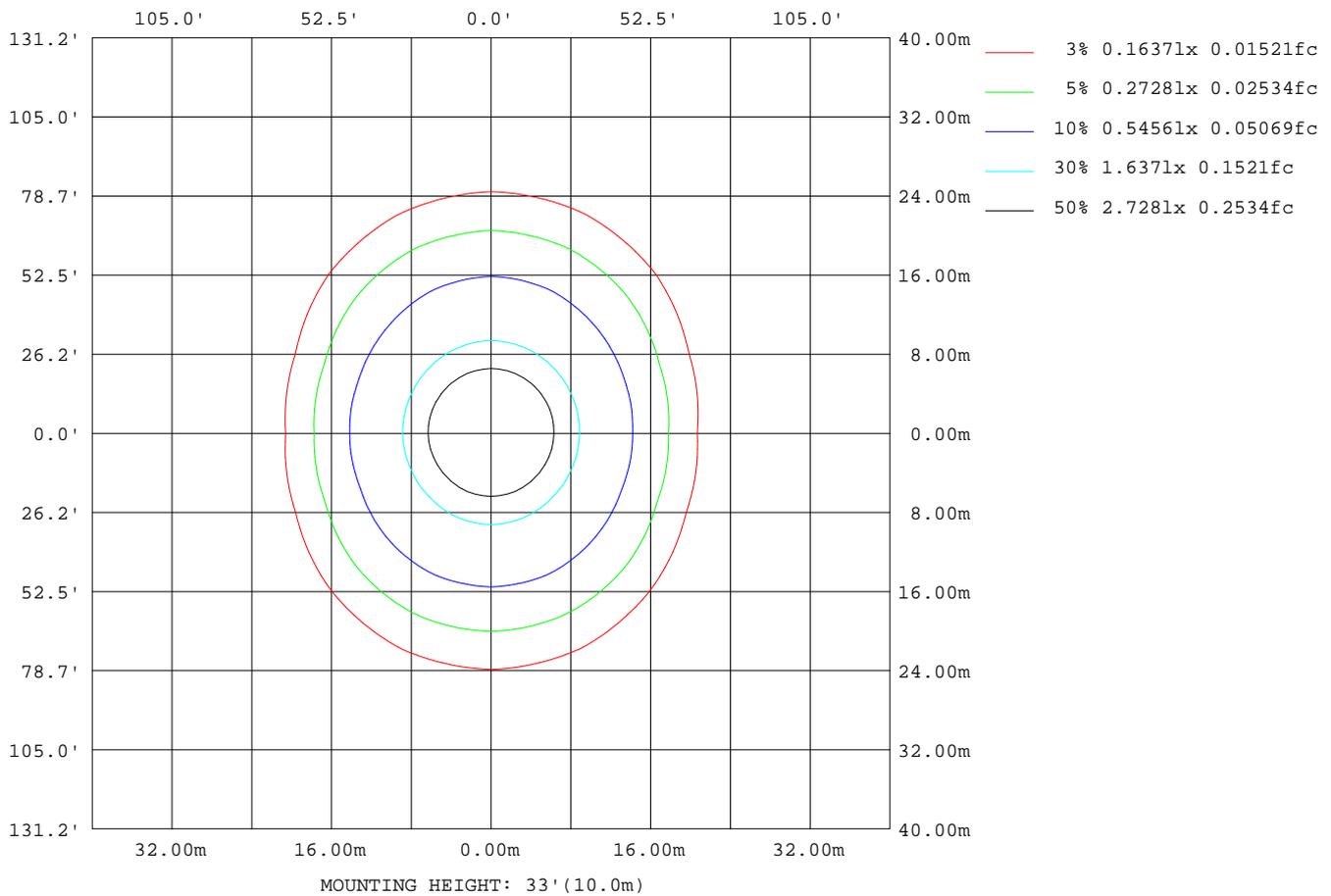
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Water
Test Date: 2024-07-12

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

ISOLUX DIAGRAM

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	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:25.1DEG
 Operators:Water
 Test Date:2024-07-12

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

LED Avg.L Report

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

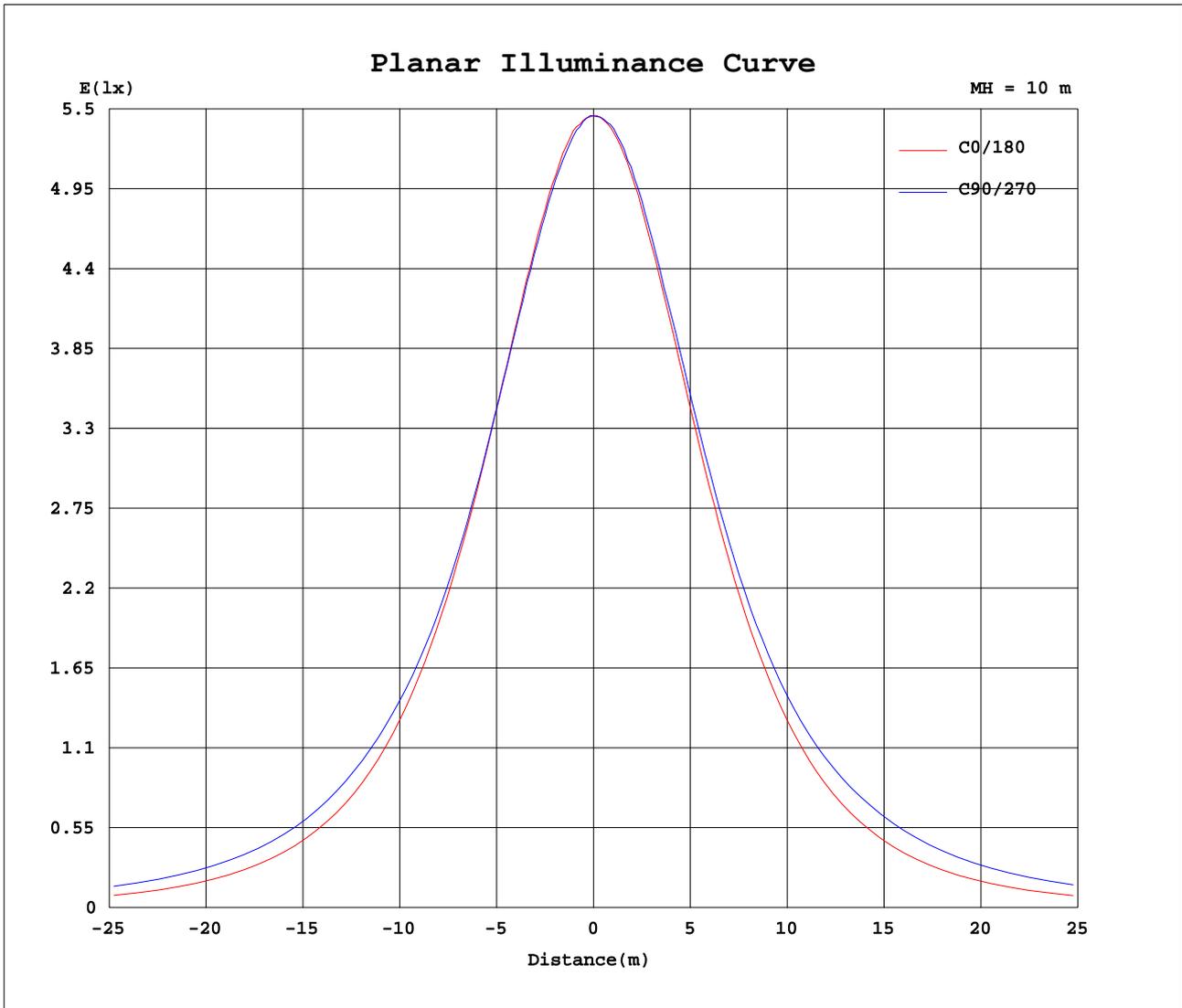
AvgL	cd/m2
L_0~180 (65) av	4065
L_0~180 (75) av	3206
L_0~180 (85) av	1468
L_90~270 (65) av	6601
L_90~270 (75) av	8869
L_90~270 (85) av	20811
L_45 (65) av	5599
L_45 (75) av	6818
L_45 (85) av	14478

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Water
 Test Date:2024-07-12

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

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Water
 Test Date: 2024-07-12

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

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.2122A P:25.100W PF:0.9853 Freq:60.00Hz Lamp Flux:2066.05x1 lm		
NAME: LED Luminaire	TYPE: N/A	WEIGHT: N/A
SPEC.: ASD-OLWS-21GR-MV-24D25NK 5000K	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	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545			
5	544	542	542	541	542	542	541	543	543	543	546	544	546	545	544	545			
10	536	534	534	533	532	531	534	535	537	536	540	539	539	540	539	537			
15	525	523	520	519	521	521	519	523	524	526	529	530	530	530	529	527			
20	508	504	504	504	504	504	503	505	508	510	513	515	515	515	514	511			
25	488	484	484	485	487	485	483	482	488	489	494	497	501	497	494	492			
30	463	458	460	464	465	464	459	459	463	466	471	477	480	478	472	468			
35	435	431	434	439	444	440	434	431	435	438	445	453	458	454	447	439			
40	402	399	405	416	422	417	405	398	402	405	416	429	434	431	418	408			
45	365	363	374	393	403	395	375	362	365	370	386	403	413	405	388	373			
50	325	326	345	373	383	375	346	325	325	332	355	379	392	382	358	336			
55	283	287	317	346	356	348	318	286	282	291	322	357	374	361	328	298			
60	238	246	287	316	326	318	289	246	235	250	293	333	347	336	299	257			
65	191	207	253	285	297	287	254	208	188	209	265	302	317	306	271	217			
70	142	169	218	256	269	258	220	172	138	170	231	272	289	276	237	179			
75	93.4	131	186	228	244	231	189	133	89.4	134	198	244	262	248	205	144			
80	49.5	95.4	158	202	217	204	161	98.7	46.1	98.4	168	217	236	221	176	109			
85	14.7	67.4	131	174	190	176	134	71.4	13.5	69.9	142	191	210	195	150	79.8			
90	0.36	43.9	107	151	167	154	111	48.5	0.18	46.6	116	164	182	168	123	56.2			
95	0.61	25.5	84.8	128	146	131	88.7	29.3	0.47	28.7	95.8	144	163	147	102	36.8			
100	1.26	13.7	62.1	103	119	106	65.9	16.5	1.07	15.9	73.4	121	140	125	80.4	21.5			
105	2.08	6.05	43.2	79.4	93.9	81.8	46.5	7.94	1.81	8.68	53.2	95.9	113	99.4	59.0	12.8			
110	2.94	2.49	30.2	59.2	71.3	61.1	32.3	2.97	2.58	2.90	37.4	73.1	88.2	76.4	42.0	5.60			
115	3.77	2.08	17.7	43.2	52.9	44.7	20.0	1.66	3.33	1.29	25.8	54.1	66.6	56.7	29.2	2.06			
120	4.63	2.70	8.19	28.9	37.7	30.3	9.52	1.78	4.06	1.11	15.1	39.0	49.3	41.0	18.6	1.53			
125	5.41	3.71	3.71	15.5	22.2	15.9	4.12	2.31	4.74	1.22	6.25	26.2	35.1	28.0	8.34	1.49			
130	6.13	5.08	2.73	7.05	10.3	7.45	2.36	3.48	5.36	1.64	2.25	13.0	21.1	14.6	3.26	1.75			
135	6.84	6.65	3.05	3.25	4.31	3.15	2.53	5.19	6.05	2.08	1.76	5.14	8.63	5.86	2.00	2.22			
140	7.51	7.85	4.02	3.03	2.88	2.82	3.16	6.90	6.66	2.64	1.75	1.96	2.81	2.20	1.87	2.78			
145	8.13	8.47	5.28	3.70	3.39	3.36	4.30	7.90	7.15	3.95	1.59	1.92	1.99	2.03	2.13	3.66			
150	8.62	8.89	7.20	4.94	4.39	4.50	6.19	8.40	7.64	4.91	2.52	2.20	2.23	2.29	2.60	5.32			
155	9.08	9.31	9.06	6.81	5.97	6.35	8.43	8.78	8.08	5.92	3.24	2.65	2.66	2.81	3.38	6.53			
160	8.90	9.47	9.68	9.19	8.60	9.03	9.33	9.07	8.17	6.44	4.99	3.56	3.35	3.63	4.93	6.95			
165	8.02	9.59	9.82	10.1	9.85	9.71	9.23	8.18	6.93	6.46	5.10	5.50	4.83	5.86	6.94	7.20			
170	7.01	9.40	9.75	9.94	9.93	9.12	8.22	6.61	5.65	5.66	6.25	6.13	7.60	7.49	7.31	7.30			
175	7.18	7.93	9.28	9.01	8.48	8.05	5.89	5.92	5.36	5.37	5.49	5.93	6.03	7.15	7.33	7.11			
180	7.80	7.61	7.11	6.49	4.94	5.70	7.21	7.78	7.81	7.60	7.09	6.49	4.92	5.70	7.19	7.81			

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