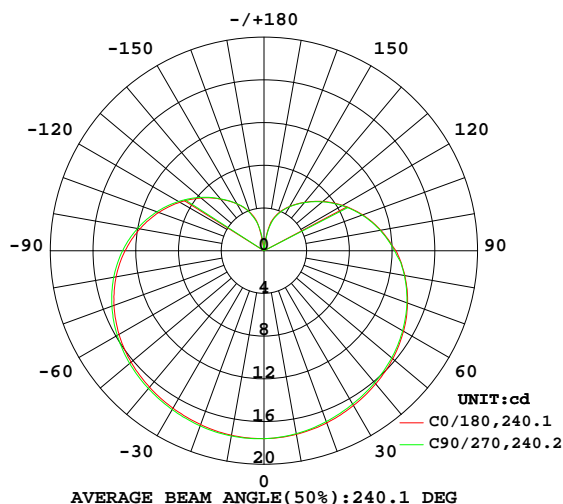


LUMINAIRE PHOTOMETRIC TEST REPORT

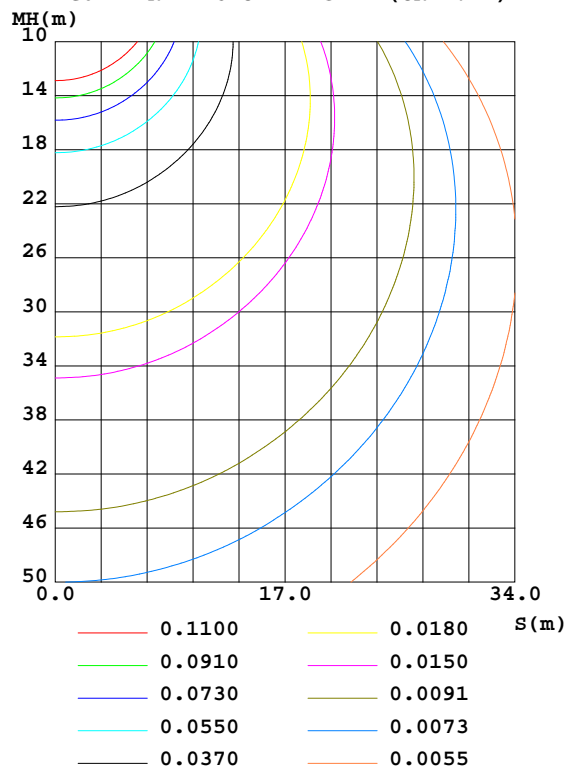
Test:U:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 39.60 lm/W			
MODEL	2402W57605E-S01	Imax(cd)	17.63	S/MH(C0/180)	1.45
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.43
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	149.28	η UP,DN(C0-180)	18.3,32.8
NOMINAL FLUX(lm)	149.279	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	17.3,31.6
LAMPS INSIDE	1	η up(%)	35.6	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	230	η down(%)	64.4	CIBSE SHR MAX	1.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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	17.54	17.60	17.61	17.56	17.46	17.37	17.39	17.48	0- 10	1.675	1.675	1.12,1.12
20	17.32	17.38	17.45	17.38	17.16	16.95	17.03	17.25	10- 20	4.924	6.599	4.42,4.42
30	17.03	17.03	17.18	17.13	16.74	16.39	16.59	16.99	20- 30	7.894	14.49	9.71,9.71
40	16.68	16.59	16.85	16.86	16.28	15.77	16.13	16.73	30- 40	10.48	24.97	16.7,16.7
50	16.24	16.03	16.42	16.52	15.74	15.07	15.61	16.44	40- 50	12.58	37.55	25.2,25.2
60	15.67	15.33	15.86	16.08	15.09	14.26	14.99	16.03	50- 60	14.10	51.65	34.6,34.6
70	14.95	14.48	15.15	15.48	14.30	13.36	14.24	15.47	60- 70	14.94	66.59	44.6,44.6
80	14.06	13.54	14.29	14.70	13.39	12.33	13.34	14.69	70- 80	15.07	81.65	54.7,54.7
90	13.01	12.46	13.24	13.68	12.35	11.21	12.22	13.68	80- 90	14.48	96.13	64.4,64.4
100	11.81	11.26	12.03	12.46	11.10	10.08	11.05	12.36	90-100	13.24	109.4	73.3,73.3
110	10.49	10.000	10.68	11.03	9.837	8.905	9.782	10.96	100-110	11.50	120.9	81,81
120	9.104	8.697	9.240	9.502	8.511	7.734	8.457	9.441	110-120	9.461	130.3	87.3,87.3
130	7.697	7.400	7.782	7.939	7.184	6.573	7.138	7.910	120-130	7.314	137.7	92.2,92.2
140	6.303	6.113	6.348	6.408	5.922	5.488	5.887	6.448	130-140	5.261	142.9	95.7,95.7
150	5.072	4.982	5.099	5.085	4.787	4.503	4.755	5.123	140-150	3.478	146.4	98.1,98.1
160	3.803	3.725	3.715	3.795	3.636	3.442	3.550	3.780	150-160	2.022	148.4	99.4,99.4
170	1.009	0.8951	1.768	1.971	1.686	1.143	1.322	1.546	160-170	0.8159	149.2	100,100
180	0.0205	0.0205	0.0208	0.0202	0.0207	0.0209	0.0204	0.0204	170-180	0.0490	149.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 31.032 lm

%lum = 20.8%

%lamp = 20.8%

Conical surface Flux(120deg): 51.647 lm

%lum = 34.6%

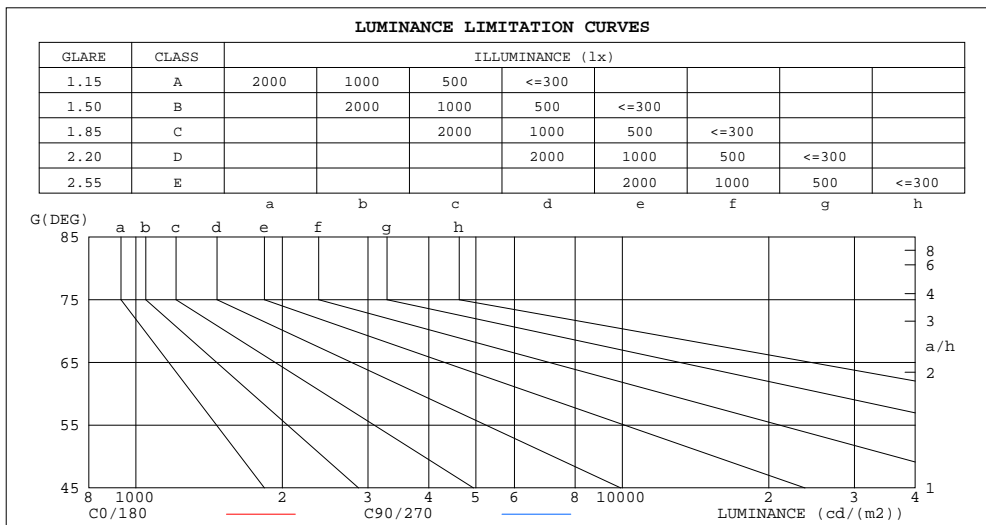
%lamp = 34.6%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	SUR.: N/A	Shielding Angle: N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	16150039	15670355
80	8407522	8154438
75	5825925	5644456
70	4536271	4391327
65	3762231	3644142
60	3253144	3144334
55	2890588	2791982
50	2623254	2531271
45	2419071	2333200

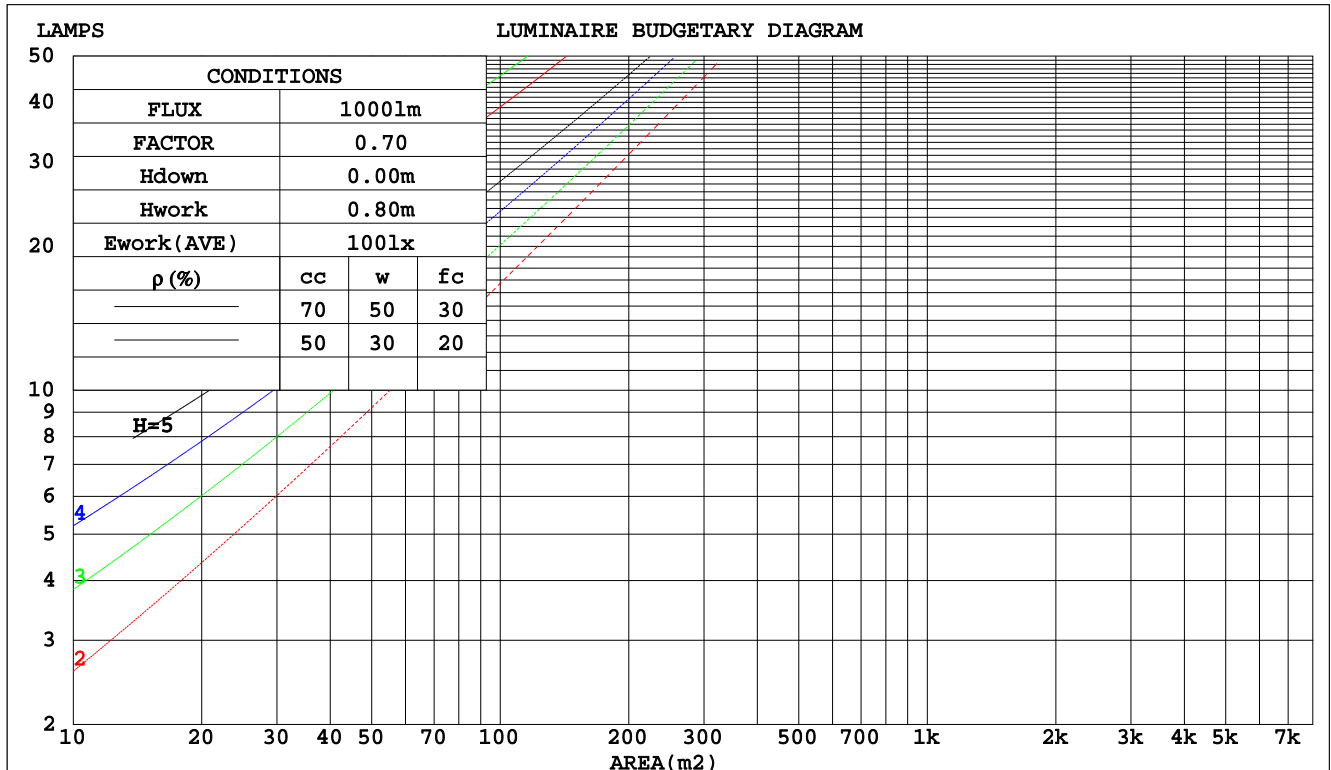
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	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	1.11	1.11	1.11	1.04	1.04	1.04	.91	.91	.91	.80	.80	.80	.69	.69	.69	.64
1.0	.90	.84	.79	.84	.79	.74	.73	.69	.65	.63	.60	.57	.54	.51	.49	.45
2.0	.76	.68	.61	.71	.64	.57	.62	.56	.51	.53	.48	.44	.45	.41	.38	.34
3.0	.65	.56	.49	.61	.53	.46	.53	.46	.41	.45	.40	.36	.38	.34	.31	.27
4.0	.57	.47	.40	.53	.45	.38	.46	.39	.34	.40	.34	.29	.34	.29	.25	.22
5.0	.50	.41	.34	.47	.38	.32	.41	.34	.28	.35	.29	.25	.30	.25	.21	.18
6.0	.45	.35	.29	.42	.33	.27	.37	.29	.24	.31	.26	.21	.27	.22	.18	.15
7.0	.40	.31	.25	.38	.29	.24	.33	.26	.21	.28	.23	.18	.24	.20	.16	.13
8.0	.36	.28	.22	.34	.26	.21	.30	.23	.18	.26	.20	.16	.22	.18	.14	.12
9.0	.33	.25	.19	.31	.23	.18	.27	.21	.16	.24	.18	.14	.20	.16	.12	.10
10.0	.30	.22	.17	.29	.21	.16	.25	.19	.15	.22	.17	.13	.19	.14	.11	.09



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz		
Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.415	.236	.075	.397	.226	.072	.363	.208	.066	.332	.191	.061	.303	.176	.057		
2.0	.348	.191	.059	.332	.183	.056	.301	.167	.052	.272	.153	.048	.246	.139	.044		
3.0	.304	.162	.048	.289	.155	.047	.261	.141	.043	.235	.129	.039	.211	.117	.036		
4.0	.271	.141	.041	.257	.135	.040	.232	.123	.037	.208	.111	.034	.185	.101	.031		
5.0	.244	.125	.036	.232	.119	.035	.208	.109	.032	.186	.098	.029	.166	.089	.027		
6.0	.223	.112	.032	.211	.107	.031	.190	.097	.028	.169	.088	.026	.150	.079	.024		
7.0	.205	.101	.029	.194	.097	.028	.174	.088	.025	.155	.080	.023	.138	.072	.021		
8.0	.189	.092	.026	.180	.088	.025	.161	.080	.023	.144	.073	.021	.127	.065	.019		
9.0	.176	.085	.024	.167	.081	.023	.150	.074	.021	.134	.067	.019	.118	.060	.017		
10.0	.164	.079	.022	.156	.075	.021	.140	.069	.019	.125	.062	.018	.111	.056	.016		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.462	.462	.462	.395	.395	.395	.269	.269	.269	.155	.155	.155	.049	.049	.049	
1.0	.461	.429	.400	.394	.368	.344	.270	.253	.238	.155	.146	.138	.050	.047	.045	
2.0	.455	.407	.367	.390	.350	.317	.267	.242	.221	.154	.141	.130	.049	.046	.042	
3.0	.448	.391	.346	.384	.338	.300	.264	.235	.211	.152	.137	.124	.049	.044	.041	
4.0	.440	.379	.333	.378	.328	.289	.260	.229	.204	.150	.134	.121	.048	.044	.040	
5.0	.433	.370	.324	.372	.320	.282	.256	.224	.199	.148	.131	.118	.048	.043	.039	
6.0	.425	.363	.318	.365	.314	.277	.252	.220	.196	.146	.129	.116	.047	.042	.038	
7.0	.418	.356	.313	.360	.309	.273	.249	.217	.193	.144	.128	.115	.047	.042	.038	
8.0	.412	.351	.309	.354	.304	.270	.245	.214	.191	.143	.126	.114	.046	.041	.038	
9.0	.405	.346	.307	.349	.301	.267	.242	.211	.190	.141	.125	.113	.046	.041	.038	
10.0	.399	.342	.304	.344	.297	.266	.239	.209	.189	.139	.124	.113	.045	.041	.037	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm										
NAME: Luna Bulb 3200K					TYPE: with dom			WEIGHT: 0.081 kg		
SPEC.: 100-240V 50/60Hz 4.25W					DIM.: 27 mm*33 mm*92.6 mm			SERIAL No.: 051-0000535		
MFR.: Astera					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	45.0	46.3	45.8	47.0	47.9	44.9	46.1	45.6	46.9	47.8
3H	48.0	49.1	48.8	49.9	50.8	47.9	49.0	48.6	49.8	50.7
4H	49.7	50.8	50.5	51.5	52.5	49.5	50.6	50.3	51.4	52.3
6H	51.6	52.6	52.4	53.4	54.4	51.4	52.4	52.2	53.2	54.2
8H	52.6	53.6	53.4	54.4	55.4	52.4	53.4	53.2	54.2	55.2
12H	53.8	54.7	54.6	55.6	56.6	53.6	54.6	54.4	55.4	56.4
4H 2H	45.9	47.0	46.7	47.8	48.7	45.8	46.9	46.6	47.7	48.6
3H	49.0	50.0	49.8	50.8	51.8	48.9	49.9	49.7	50.7	51.7
4H	50.9	51.7	51.7	52.6	53.6	50.7	51.6	51.6	52.4	53.5
6H	52.9	53.7	53.7	54.5	55.6	52.8	53.5	53.6	54.4	55.4
8H	54.0	54.8	54.9	55.6	56.7	53.9	54.6	54.7	55.5	56.6
12H	55.4	56.0	56.2	56.9	58.0	55.2	55.9	56.1	56.7	57.8
8H 4H	51.5	52.2	52.3	53.1	54.1	51.4	52.1	52.2	53.0	54.0
6H	53.8	54.4	54.7	55.3	56.4	53.7	54.3	54.6	55.2	56.3
8H	55.1	55.7	56.0	56.6	57.7	55.0	55.5	55.9	56.4	57.6
12H	56.6	57.1	57.6	58.0	59.2	56.5	57.0	57.4	57.9	59.1
12H 4H	51.7	52.3	52.5	53.2	54.3	51.6	52.2	52.4	53.1	54.2
6H	54.1	54.6	55.0	55.5	56.6	54.0	54.5	54.9	55.4	56.5
8H	55.5	56.0	56.4	56.9	58.0	55.4	55.9	56.3	56.8	57.9
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 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 149.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -6.6)
Area: 1e-005 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	SUR.: N/A	Shielding Angle: N/A

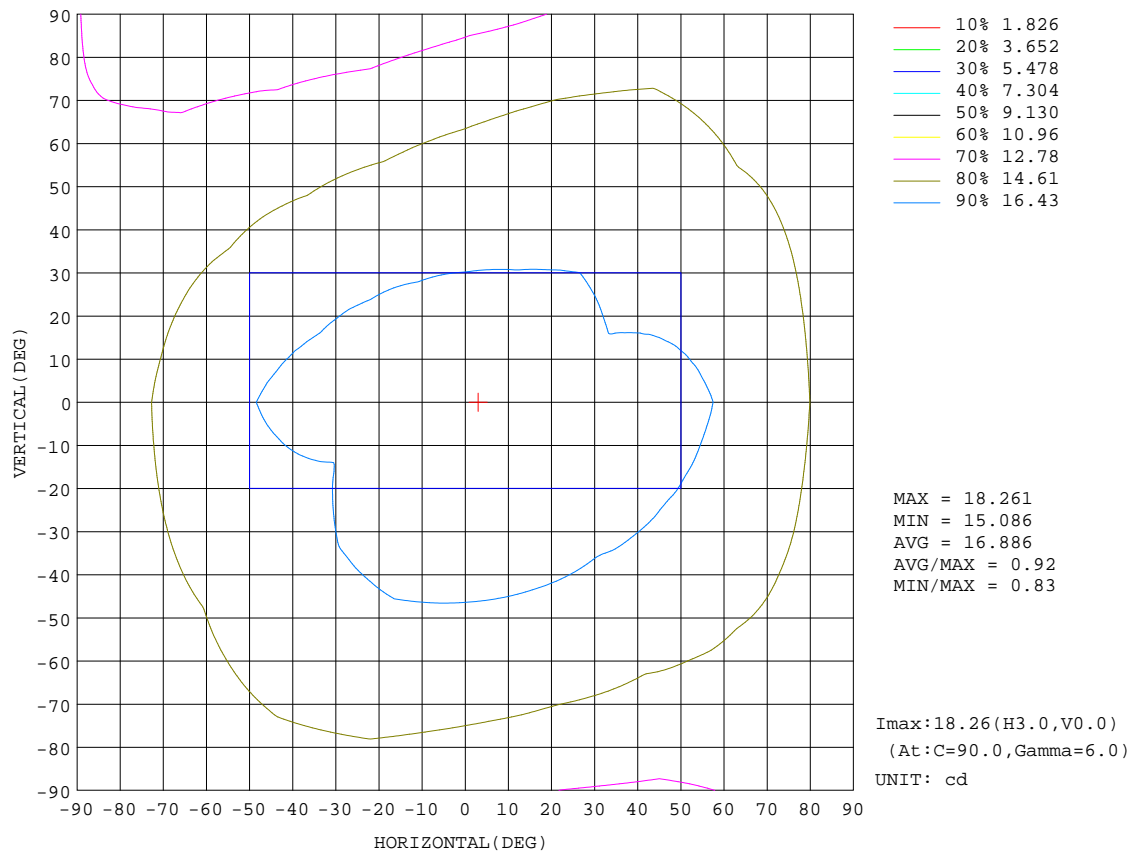
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	40	28	20	39	27	20	36	25	19	12
0.80	49	35	27	47	34	26	43	32	25	16
1.00	56	42	33	54	41	32	49	40	30	20
1.25	63	49	40	60	47	39	54	43	36	24
1.50	68	55	45	65	52	44	58	48	40	27
2.00	76	63	54	72	60	52	64	55	47	32
2.50	81	69	60	76	66	58	67	59	52	36
3.00	85	74	66	80	70	63	70	63	57	39
4.00	90	81	73	85	76	69	74	68	62	43
5.00	93	85	78	88	80	74	77	71	66	46
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	SUR.: N/A	Shielding Angle: N/A



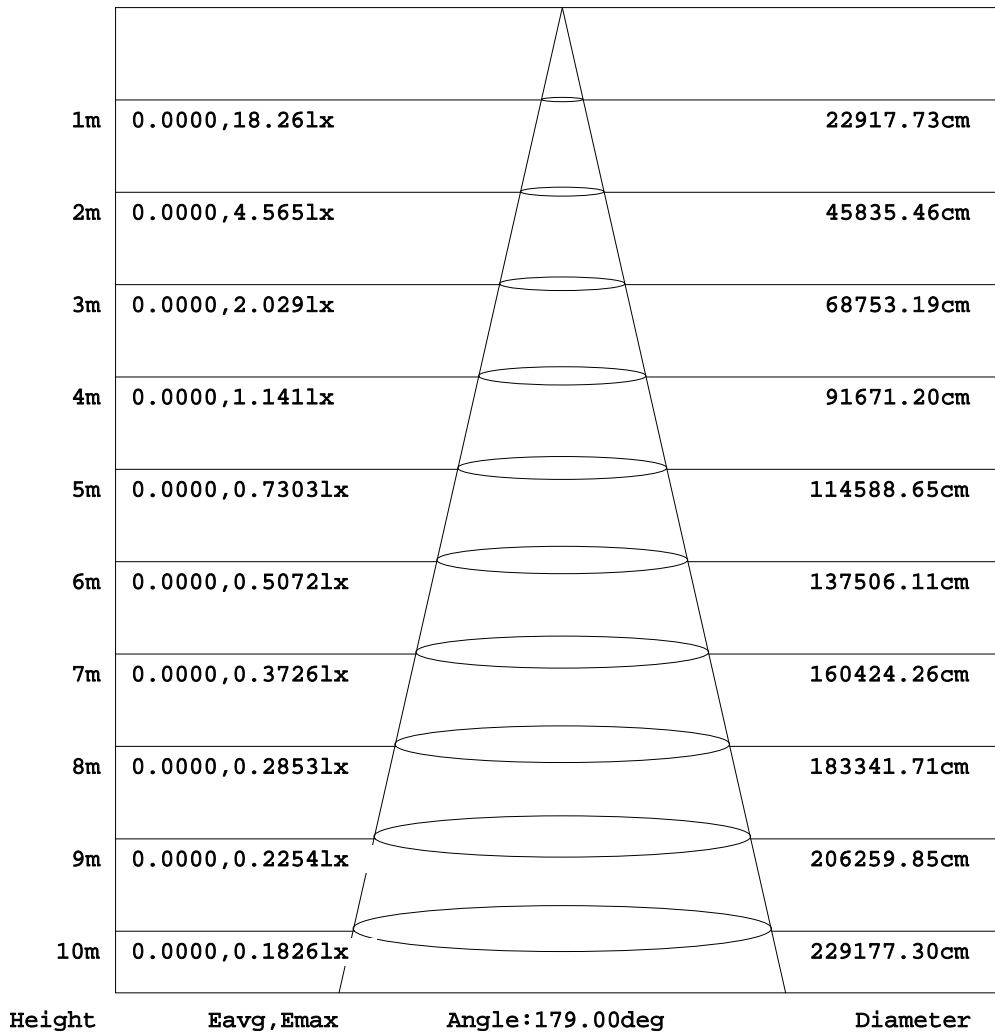
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	SUR.: N/A	Shielding Angle: N/A

Flux out:96.13 lm



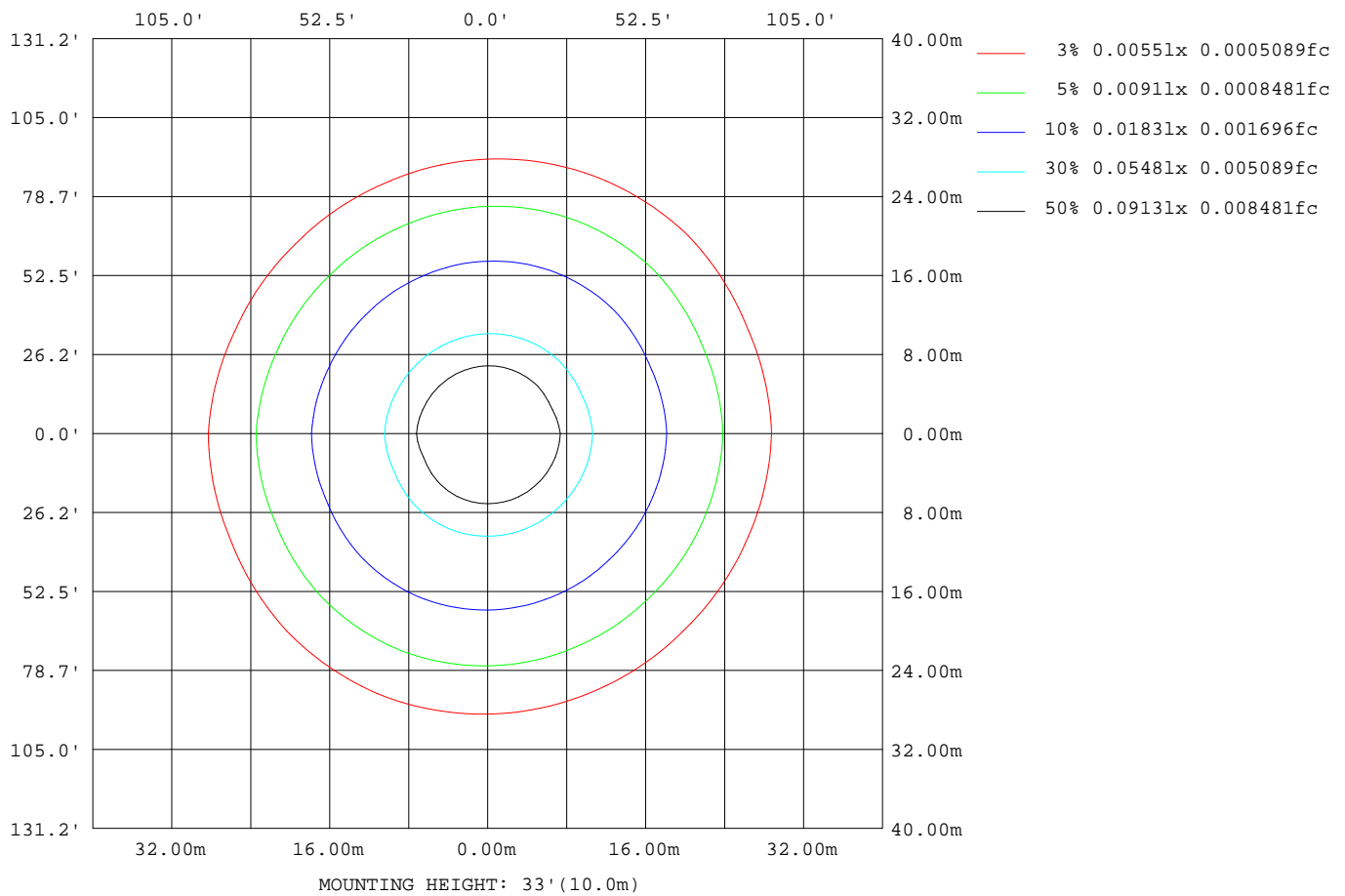
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	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: 2024-08-14

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:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
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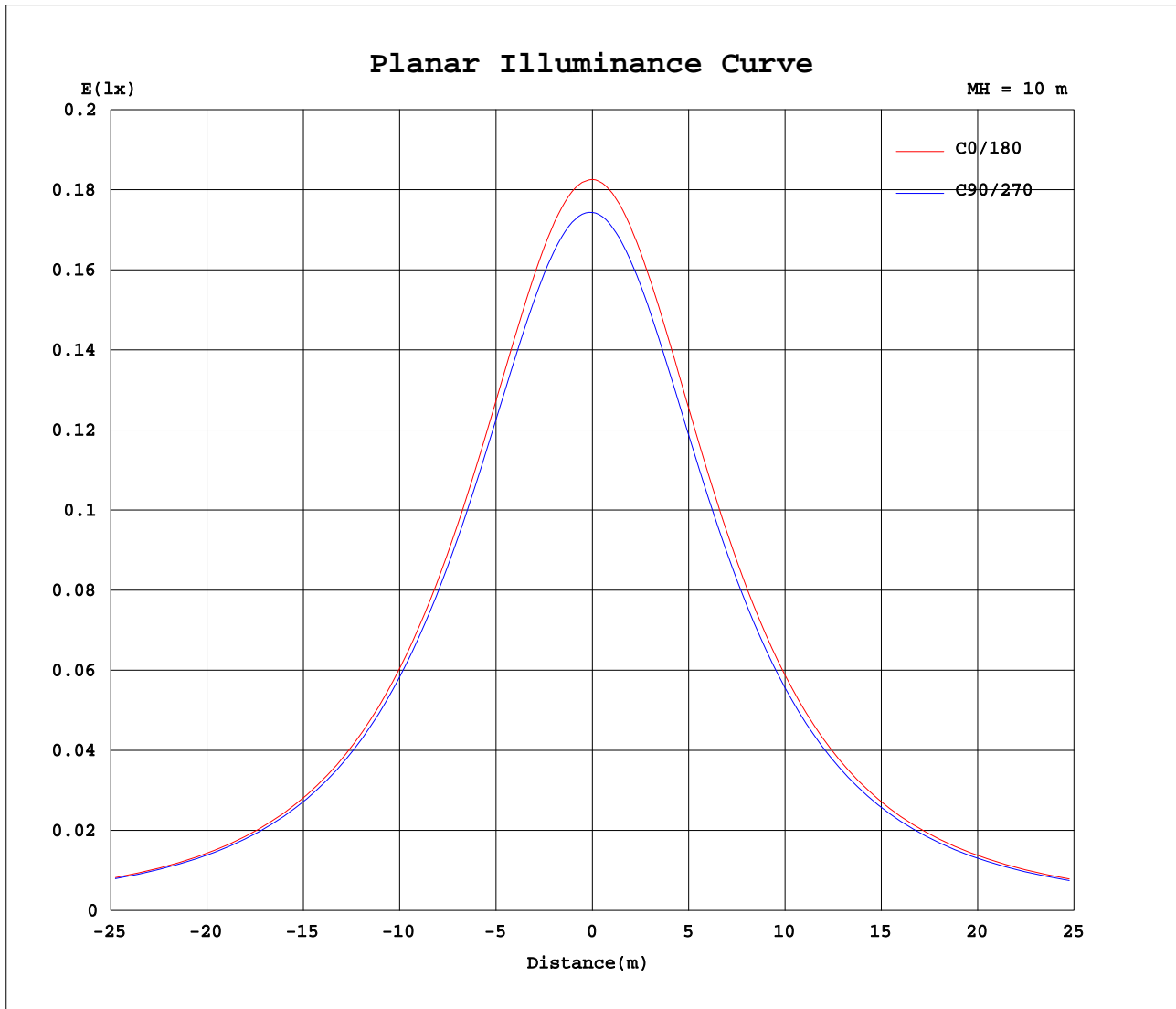
AvgL	cd/m2
L_0~180(65)av	3552952
L_0~180(75)av	5484753
L_0~180(85)av	15172857
L_90~270(65)av	3568314
L_90~270(75)av	5515138
L_90~270(85)av	15285578
L_45(65)av	3568015
L_45(75)av	5518909
L_45(85)av	15261197

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Water
Test Date: 2024-08-14

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.03V I:0.0405A P:3.7700W PF:0.4047 Freq:50.00Hz Lamp Flux:149.279x1 lm		
NAME: Luna Bulb 3200K	TYPE: with dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	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	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6			
5	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.5	17.5	17.5	17.5	17.5	17.5	17.6	17.6			
10	17.5	17.6	17.6	17.6	17.6	17.6	17.6	17.5	17.5	17.4	17.4	17.4	17.4	17.4	17.5	17.5			
15	17.5	17.5	17.5	17.5	17.6	17.5	17.5	17.4	17.3	17.2	17.2	17.2	17.2	17.3	17.4	17.4			
20	17.3	17.4	17.4	17.4	17.5	17.5	17.4	17.3	17.2	17.0	17.0	16.9	17.0	17.1	17.3	17.3			
25	17.2	17.2	17.2	17.3	17.3	17.3	17.3	17.1	17.0	16.8	16.7	16.7	16.8	17.0	17.1	17.2			
30	17.0	17.1	17.0	17.1	17.2	17.2	17.1	17.0	16.7	16.5	16.4	16.4	16.6	16.8	17.0	17.0			
35	16.9	16.9	16.8	16.9	17.0	17.1	17.0	16.8	16.5	16.2	16.1	16.1	16.4	16.6	16.9	16.9			
40	16.7	16.6	16.6	16.7	16.8	17.0	16.9	16.6	16.3	15.9	15.8	15.8	16.1	16.5	16.7	16.8			
45	16.5	16.4	16.3	16.5	16.6	16.8	16.7	16.4	16.0	15.6	15.4	15.5	15.9	16.3	16.6	16.6			
50	16.2	16.1	16.0	16.2	16.4	16.6	16.5	16.2	15.7	15.2	15.1	15.2	15.6	16.1	16.4	16.4			
55	16.0	15.8	15.7	15.9	16.2	16.4	16.3	16.0	15.4	14.9	14.7	14.8	15.3	15.9	16.3	16.2			
60	15.7	15.4	15.3	15.5	15.9	16.2	16.1	15.7	15.1	14.5	14.3	14.4	15.0	15.6	16.0	16.0			
65	15.3	15.1	14.9	15.2	15.5	15.9	15.8	15.4	14.7	14.0	13.8	14.0	14.6	15.3	15.8	15.7			
70	14.9	14.7	14.5	14.7	15.2	15.5	15.5	15.1	14.3	13.6	13.4	13.6	14.2	15.0	15.5	15.4			
75	14.5	14.2	14.0	14.3	14.7	15.2	15.1	14.7	13.9	13.1	12.9	13.1	13.8	14.6	15.1	15.0			
80	14.1	13.7	13.5	13.8	14.3	14.8	14.7	14.2	13.4	12.6	12.3	12.6	13.3	14.1	14.7	14.6			
85	13.6	13.2	13.0	13.3	13.8	14.3	14.2	13.7	12.9	12.1	11.8	12.1	12.9	13.6	14.2	14.1			
90	13.0	12.7	12.5	12.8	13.2	13.7	13.7	13.2	12.4	11.5	11.2	11.5	12.2	13.1	13.7	13.5			
95	12.4	12.0	11.9	12.1	12.7	13.2	13.1	12.5	11.7	11.0	10.7	11.0	11.7	12.5	13.1	13.0			
100	11.8	11.4	11.3	11.5	12.0	12.4	12.5	11.9	11.1	10.4	10.1	10.4	11.1	11.9	12.4	12.3			
105	11.2	10.8	10.6	10.8	11.4	11.8	11.8	11.2	10.5	9.78	9.50	9.78	10.4	11.2	11.7	11.6			
110	10.5	10.1	10.00	10.2	10.7	11.1	11.0	10.5	9.84	9.17	8.90	9.18	9.78	10.5	11.0	10.9			
115	9.80	9.50	9.35	9.52	9.97	10.3	10.3	9.83	9.18	8.55	8.32	8.56	9.12	9.81	10.2	10.20			
120	9.10	8.83	8.70	8.85	9.24	9.54	9.50	9.10	8.51	7.94	7.73	7.94	8.46	9.07	9.44	9.46			
125	8.39	8.17	8.05	8.17	8.51	8.76	8.72	8.36	7.85	7.33	7.15	7.32	7.79	8.34	8.67	8.69			
130	7.70	7.51	7.40	7.51	7.78	7.99	7.94	7.63	7.18	6.73	6.57	6.69	7.14	7.61	7.91	7.94			
135	7.00	6.87	6.74	6.85	7.07	7.24	7.17	6.91	6.54	6.12	6.02	6.11	6.50	6.89	7.16	7.21			
140	6.30	6.24	6.11	6.23	6.35	6.51	6.41	6.23	5.92	5.57	5.49	5.56	5.89	6.18	6.45	6.46			
145	5.67	5.65	5.54	5.62	5.71	5.83	5.73	5.58	5.34	5.04	4.99	5.04	5.31	5.55	5.77	5.79			
150	5.07	5.07	4.98	5.05	5.10	5.18	5.09	4.98	4.79	4.54	4.50	4.53	4.76	4.94	5.12	5.15			
155	4.46	4.49	4.42	4.48	4.50	4.55	4.45	4.37	4.23	4.04	4.00	4.01	4.18	4.31	4.47	4.51			
160	3.80	3.85	3.72	3.84	3.72	3.89	3.79	3.73	3.64	3.47	3.44	3.42	3.55	3.65	3.78	3.82			
165	3.04	2.83	2.47	2.70	2.91	3.16	3.09	3.01	2.96	2.74	2.76	2.71	2.76	2.88	2.96	3.05			
170	1.01	0.89	0.90	1.22	1.77	2.04	1.97	1.88	1.69	1.38	1.14	1.20	1.32	1.41	1.55	1.63			
175	0.03	0.02	0.03	0.03	0.05	0.05	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
180	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			

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