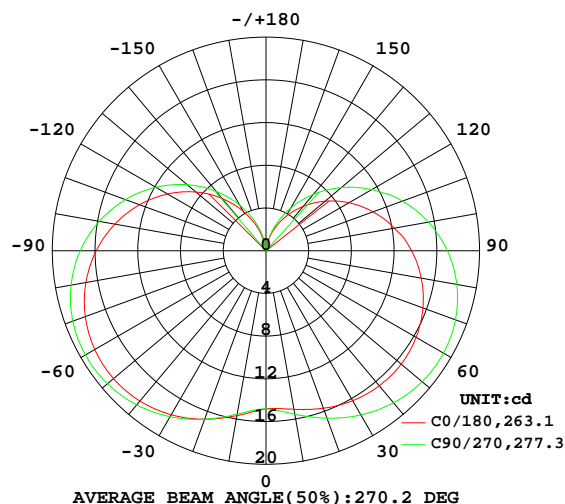


LUMINAIRE PHOTOMETRIC TEST REPORT

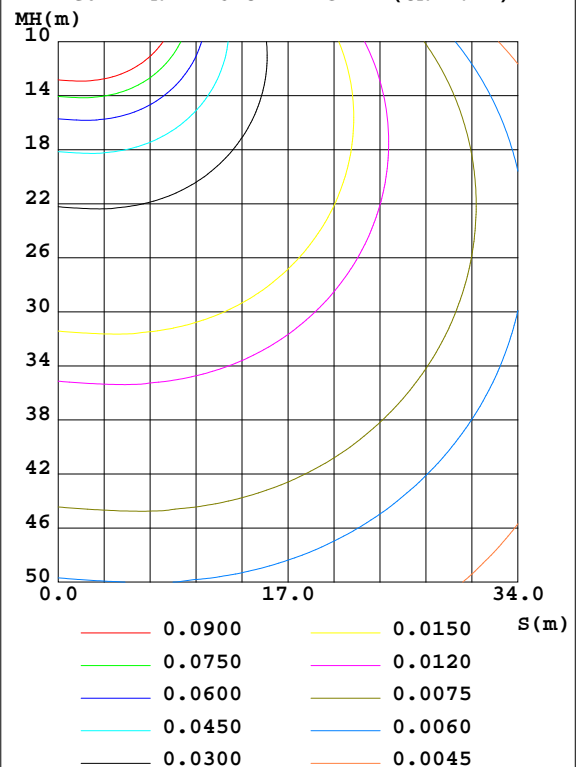
Test:U:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without dom	WEIGHT: 0.081 kg
SPEC.: 100-240V 50/60Hz 4.25W	DIM.: 27 mm*33 mm*92.6 mm	SERIAL No.: 051-0000535
MFR.: Astera	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 45.12 lm/W			
MODEL	2402W57605E-S02	Imax(cd)	21.10	S/MH(C0/180)	1.68
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.86
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	174.18	η UP,DN(C0-180)	18.5,32.2
NOMINAL FLUX(lm)	174.179	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	17.8,31.4
LAMPS INSIDE	1	η up(%)	36.3	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	230	η down(%)	63.7	CIBSE SHR MAX	2.00

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	15.69	15.49	15.53	15.44	15.07	15.10	15.53	15.84	0- 10	1.448	1.448	0.83,0.83
20	16.79	16.46	16.78	16.67	15.70	15.63	16.68	17.37	10- 20	4.547	5.995	3.44,3.44
30	17.73	17.24	17.94	17.87	16.21	16.04	17.75	18.81	20- 30	7.881	13.88	7.97,7.97
40	18.37	17.72	18.83	18.83	16.50	16.22	18.58	19.97	30- 40	11.20	25.07	14.4,14.4
50	18.63	17.84	19.37	19.45	16.52	16.12	19.07	20.75	40- 50	14.20	39.27	22.5,22.5
60	18.51	17.61	19.51	19.70	16.23	15.75	19.18	21.08	50- 60	16.59	55.86	32.1,32.1
70	18.00	17.03	19.25	19.48	15.64	15.10	18.88	20.93	60- 70	18.14	74.00	42.5,42.5
80	17.12	16.12	18.53	18.81	14.76	14.20	18.13	20.27	70- 80	18.69	92.69	53.2,53.2
90	15.90	14.91	17.39	17.69	13.63	13.06	16.98	19.10	80- 90	18.21	110.9	63.7,63.7
100	14.37	13.46	15.86	16.17	12.21	11.64	15.45	17.48	90-100	16.76	127.7	73.3,73.3
110	12.61	11.78	14.01	14.28	10.67	10.14	13.61	15.47	100-110	14.53	142.2	81.6,81.6
120	10.65	9.939	11.90	12.14	8.997	8.512	11.45	13.16	110-120	11.77	153.9	88.4,88.4
130	8.561	7.997	9.631	9.809	7.234	6.805	9.209	10.56	120-130	8.800	162.7	93.4,93.4
140	6.380	5.967	7.289	7.422	5.439	5.067	6.896	7.943	130-140	5.941	168.7	96.8,96.8
150	4.280	4.017	4.935	5.029	3.691	3.388	4.613	5.339	140-150	3.466	172.2	98.8,98.8
160	2.298	2.190	2.776	2.837	2.069	1.831	2.479	2.877	150-160	1.602	173.8	99.8,99.8
170	0.0282	0.0310	0.7036	0.5881	0.2220	0.0131	0.0145	0.0113	160-170	0.4190	174.2	100,100
180	0.0200	0.0201	0.0197	0.0189	0.0198	0.0201	0.0191	0.0184	170-180	0.0033	174.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 31.83 lm

%lum = 18.3%

%lamp = 18.3%

Conical surface Flux(120deg): 55.861 lm

%lum = 32.1%

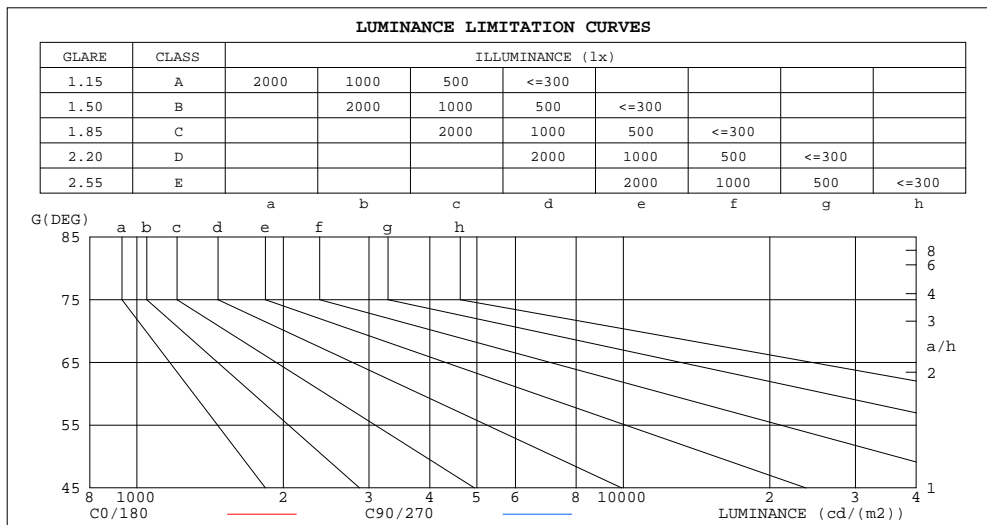
%lamp = 32.1%

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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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	18992098	20783640
80	9859806	10732663
75	6802958	7364218
70	5263743	5662286
65	4330696	4627069
60	3701577	3925307
55	3246644	3420679
50	2899212	3031827
45	2622881	2724120

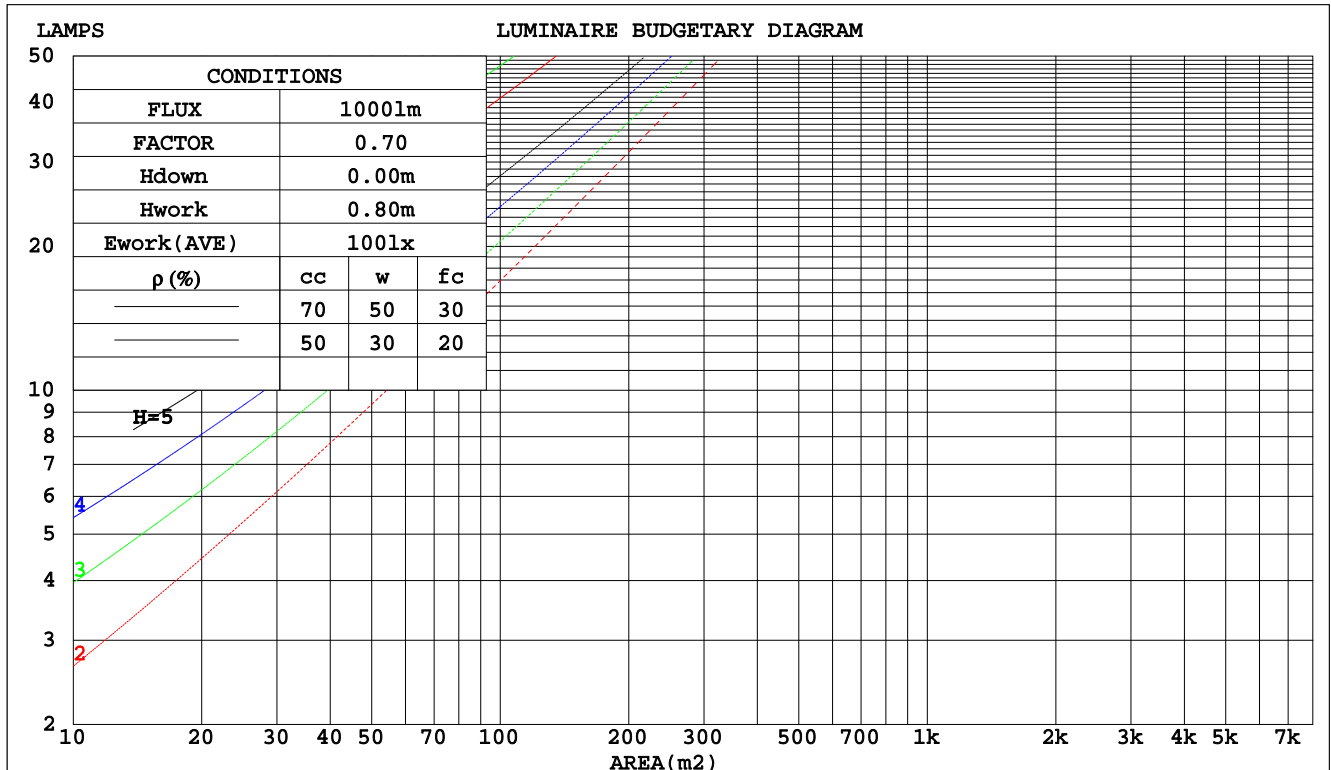
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Water
Test Date:2024-08-14

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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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	1.10	1.10	1.10	1.04	1.04	1.04	.91	.91	.91	.79	.79	.79	.69	.69	.69	.64
1.0	.89	.83	.78	.83	.78	.73	.72	.68	.64	.62	.59	.56	.53	.50	.48	.43
2.0	.75	.66	.59	.70	.62	.56	.60	.54	.49	.51	.47	.43	.43	.40	.36	.32
3.0	.64	.55	.47	.60	.51	.44	.52	.45	.39	.44	.38	.34	.37	.32	.29	.25
4.0	.56	.46	.39	.52	.43	.36	.45	.38	.32	.38	.32	.28	.32	.27	.23	.20
5.0	.49	.39	.32	.46	.37	.30	.40	.32	.27	.34	.28	.23	.28	.23	.20	.16
6.0	.44	.34	.27	.41	.32	.26	.35	.28	.23	.30	.24	.20	.25	.20	.17	.14
7.0	.39	.30	.23	.37	.28	.22	.32	.25	.20	.27	.21	.17	.23	.18	.14	.12
8.0	.35	.26	.20	.33	.25	.19	.29	.22	.17	.25	.19	.15	.21	.16	.13	.10
9.0	.32	.24	.18	.30	.22	.17	.26	.20	.15	.23	.17	.13	.19	.15	.11	.09
10.0	.29	.21	.16	.28	.20	.15	.24	.18	.13	.21	.15	.12	.18	.13	.10	.08



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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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	.428	.243	.077	.410	.234	.074	.375	.215	.069	.344	.198	.064	.315	.182	.059		
2.0	.357	.196	.060	.340	.187	.058	.309	.172	.053	.280	.157	.049	.253	.143	.045		
3.0	.311	.165	.050	.295	.158	.048	.267	.145	.044	.240	.132	.040	.216	.119	.037		
4.0	.276	.143	.042	.262	.137	.041	.236	.125	.037	.212	.114	.034	.189	.103	.031		
5.0	.249	.127	.037	.236	.121	.035	.212	.110	.032	.190	.100	.030	.169	.090	.027		
6.0	.226	.113	.032	.215	.108	.031	.192	.099	.029	.172	.089	.026	.153	.080	.024		
7.0	.207	.103	.029	.197	.098	.028	.176	.089	.026	.157	.081	.023	.139	.072	.021		
8.0	.192	.094	.026	.182	.089	.025	.163	.081	.023	.145	.074	.021	.129	.066	.019		
9.0	.178	.086	.024	.169	.082	.023	.151	.075	.021	.135	.068	.019	.119	.061	.018		
10.0	.166	.080	.022	.157	.076	.021	.141	.069	.019	.126	.062	.018	.111	.056	.016		

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	.467	.467	.467	.399	.399	.399	.273	.273	.273	.157	.157	.157	.050	.050	.050	
1.0	.468	.434	.404	.400	.373	.348	.274	.256	.241	.158	.148	.140	.050	.048	.045	
2.0	.462	.413	.371	.396	.355	.321	.271	.246	.224	.156	.143	.131	.050	.046	.043	
3.0	.455	.397	.351	.390	.343	.304	.268	.238	.213	.155	.139	.126	.050	.045	.041	
4.0	.447	.385	.338	.384	.333	.294	.264	.232	.207	.153	.136	.122	.049	.044	.040	
5.0	.440	.376	.329	.377	.325	.286	.260	.227	.202	.151	.133	.120	.049	.044	.040	
6.0	.432	.369	.323	.371	.319	.281	.256	.223	.199	.149	.131	.118	.048	.043	.039	
7.0	.425	.362	.318	.366	.314	.277	.253	.220	.197	.147	.130	.117	.047	.042	.039	
8.0	.418	.357	.315	.360	.310	.275	.249	.217	.195	.145	.128	.116	.047	.042	.038	
9.0	.412	.352	.312	.355	.306	.272	.246	.215	.193	.143	.127	.115	.046	.042	.038	
10.0	.406	.348	.310	.350	.302	.270	.243	.213	.192	.142	.126	.115	.046	.041	.038	

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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm										
NAME: Luna Bulb 3200K					TYPE: without 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	44.7	46.0	45.5	46.7	47.6	45.0	46.2	45.7	47.0	47.9
3H	47.8	49.0	48.6	49.7	50.7	48.2	49.3	48.9	50.1	51.1
4H	49.6	50.6	50.3	51.4	52.4	50.0	51.0	50.7	51.8	52.8
6H	51.5	52.5	52.3	53.3	54.3	52.0	53.0	52.7	53.8	54.8
8H	52.6	53.5	53.4	54.4	55.4	53.0	54.0	53.8	54.8	55.9
12H	53.8	54.7	54.6	55.5	56.6	54.3	55.2	55.1	56.1	57.1
4H 2H	45.7	46.7	46.4	47.5	48.5	45.9	46.9	46.6	47.7	48.7
3H	48.9	49.8	49.7	50.6	51.7	49.2	50.1	50.0	50.9	52.0
4H	50.7	51.6	51.6	52.4	53.5	51.1	51.9	51.9	52.8	53.8
6H	52.8	53.6	53.7	54.5	55.5	53.2	54.0	54.1	54.9	55.9
8H	54.0	54.7	54.8	55.6	56.7	54.4	55.1	55.3	56.0	57.1
12H	55.3	56.0	56.2	56.9	58.0	55.8	56.5	56.7	57.4	58.5
8H 4H	51.4	52.1	52.3	53.0	54.1	51.7	52.4	52.5	53.3	54.4
6H	53.7	54.3	54.6	55.2	56.4	54.1	54.7	54.9	55.6	56.7
8H	55.1	55.6	56.0	56.5	57.7	55.4	56.0	56.3	56.9	58.1
12H	56.6	57.1	57.5	58.0	59.2	57.0	57.5	57.9	58.5	59.6
12H 4H	51.6	52.3	52.5	53.2	54.3	51.8	52.5	52.7	53.4	54.5
6H	54.0	54.6	54.9	55.5	56.6	54.3	54.9	55.2	55.8	56.9
8H	55.5	56.0	56.4	56.9	58.0	55.8	56.3	56.7	57.2	58.4
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 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 174.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -6.1)
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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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

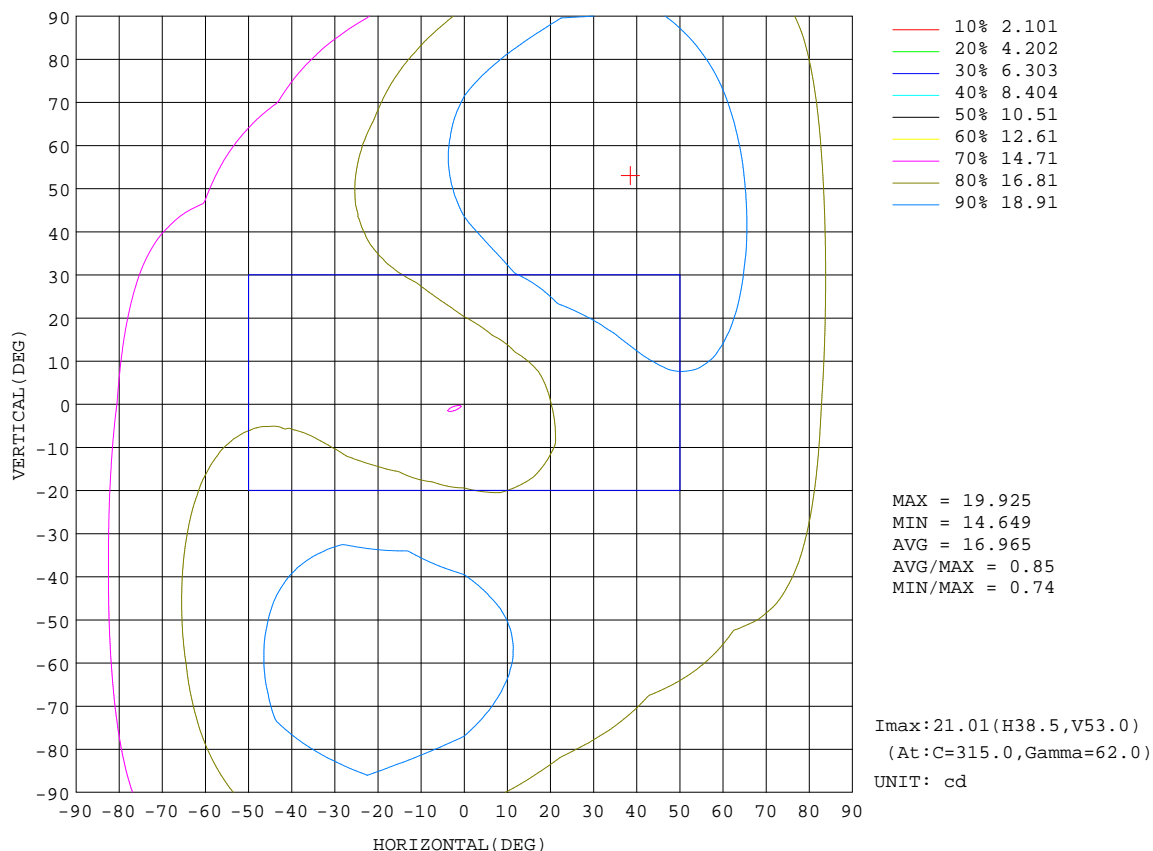
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	39	26	18	37	25	18	35	24	17	10
0.80	47	33	25	45	32	24	41	30	23	14
1.00	55	40	31	52	39	30	47	38	28	18
1.25	62	47	38	58	45	37	52	42	34	22
1.50	67	53	43	63	51	42	56	46	38	25
2.00	75	62	52	70	59	50	62	53	46	30
2.50	80	68	58	75	64	56	66	57	50	33
3.00	84	73	64	79	69	61	69	61	55	37
4.00	89	79	72	84	75	68	73	67	61	41
5.00	92	84	77	87	79	73	76	70	65	44
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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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

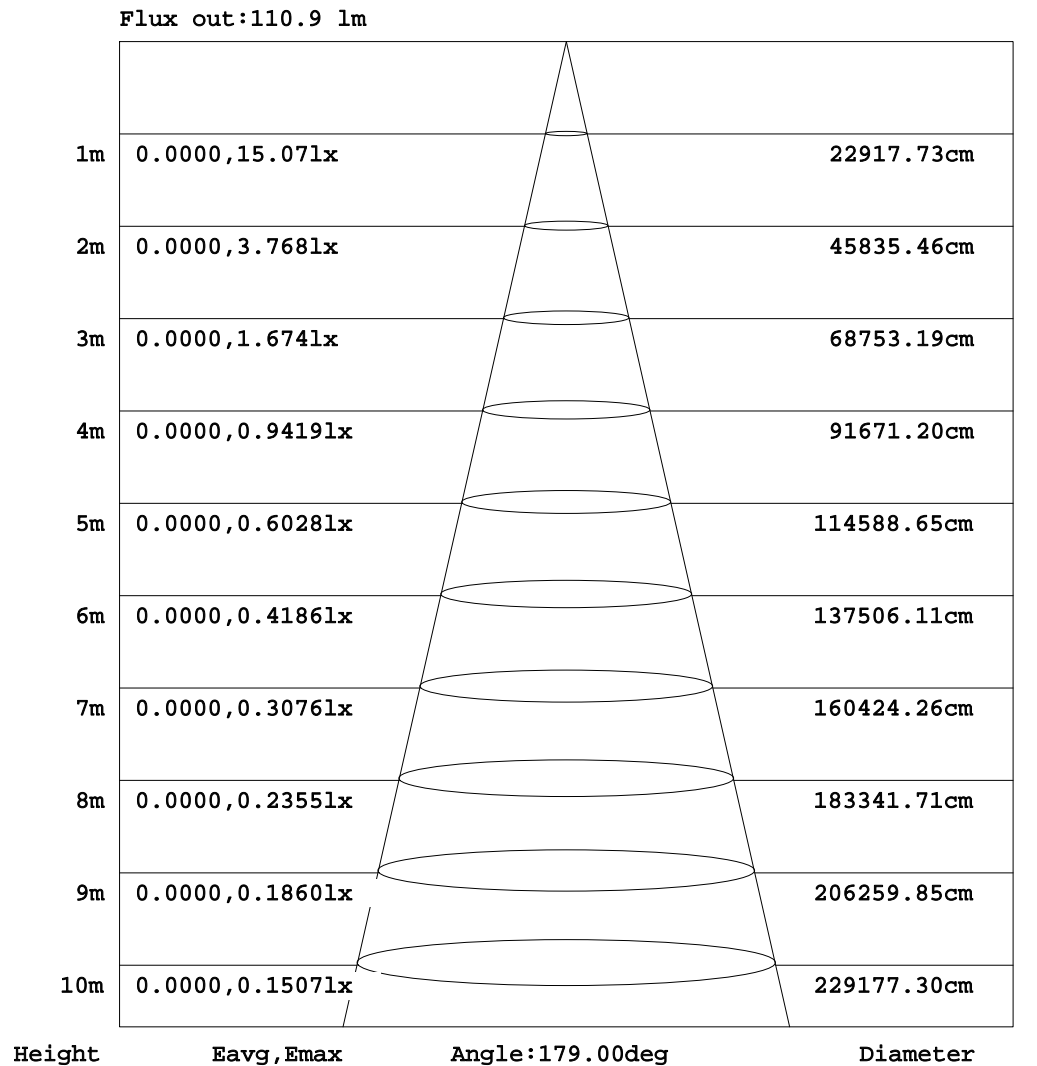


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Water
Test Date: 2024-08-14

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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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



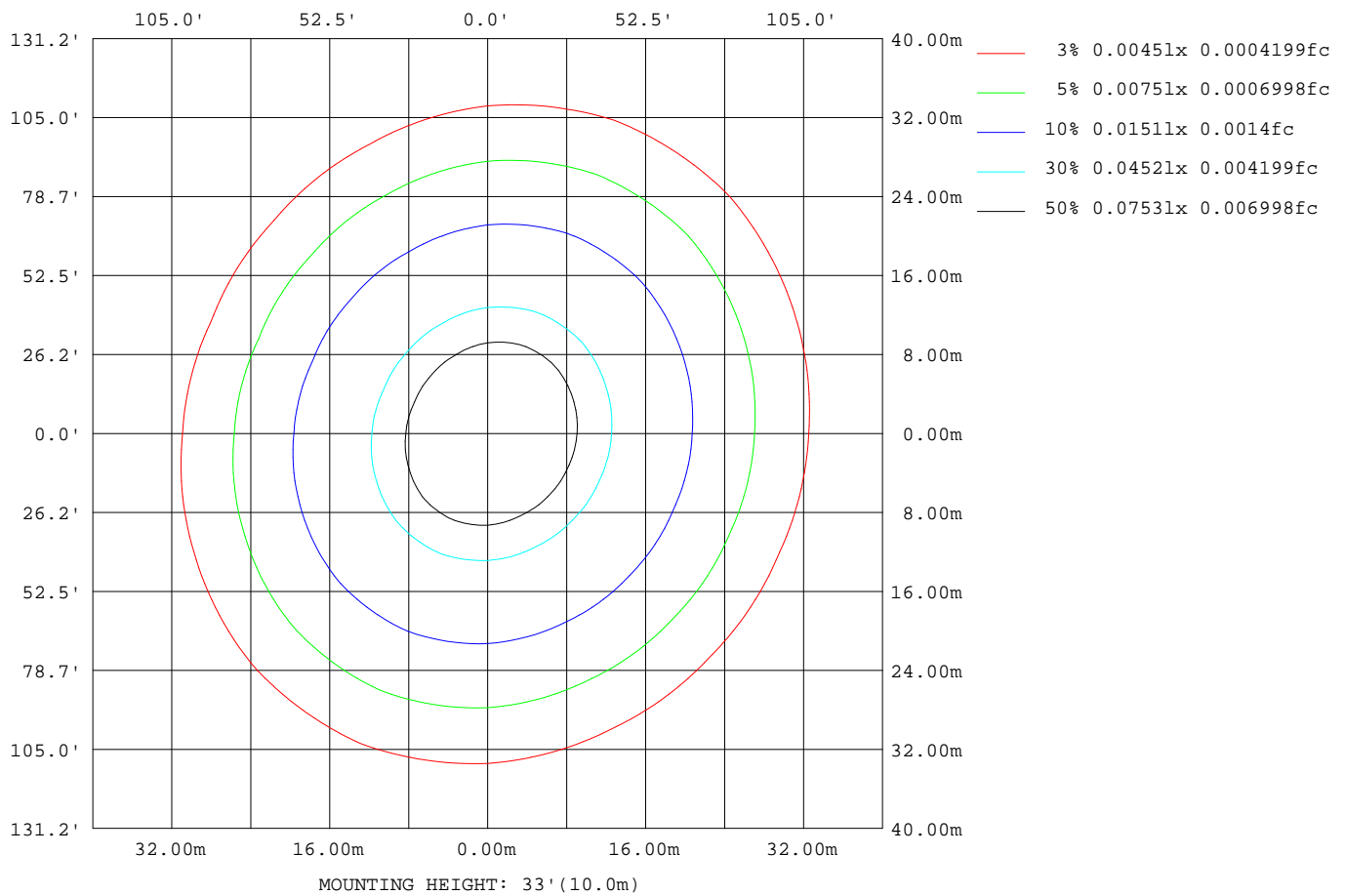
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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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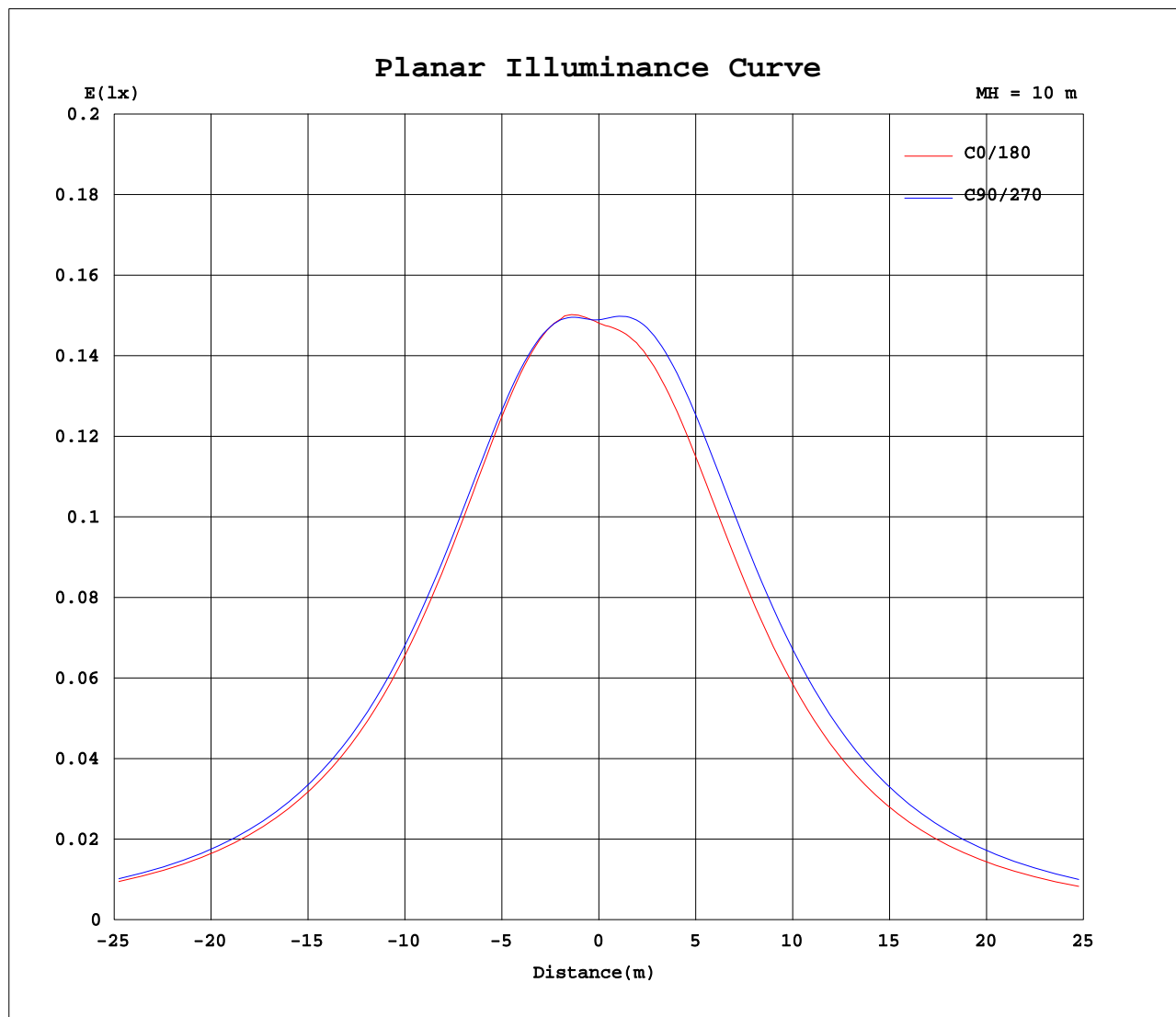
AvgL	cd/m2
L_0~180(65)av	4054419
L_0~180(75)av	6343657
L_0~180(85)av	17661044
L_90~270(65)av	4558164
L_90~270(75)av	7245843
L_90~270(85)av	20434083
L_45(65)av	4349779
L_45(75)av	6872953
L_45(85)av	19289568

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:230.12V I:0.0418A P:3.8600W PF:0.4013 Freq:50.00Hz Lamp Flux:174.179x1 lm		
NAME: Luna Bulb 3200K	TYPE: without 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	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8			
5	15.2	15.1	15.1	15.0	15.0	15.0	15.0	14.9	14.8	14.8	14.9	15.0	15.1	15.2	15.2	15.2			
10	15.7	15.6	15.5	15.5	15.5	15.5	15.4	15.2	15.1	15.0	15.1	15.3	15.5	15.8	15.8	15.8			
15	16.2	16.1	16.0	16.0	16.1	16.2	16.0	15.7	15.4	15.3	15.4	15.7	16.1	16.5	16.6	16.5			
20	16.8	16.6	16.5	16.5	16.8	16.9	16.7	16.2	15.7	15.5	15.6	16.1	16.7	17.2	17.4	17.1			
25	17.3	17.0	16.9	17.0	17.4	17.6	17.3	16.6	16.0	15.7	15.9	16.4	17.2	17.9	18.1	17.8			
30	17.7	17.3	17.2	17.5	17.9	18.2	17.9	17.0	16.2	15.8	16.0	16.8	17.8	18.6	18.8	18.4			
35	18.1	17.6	17.5	17.8	18.4	18.8	18.4	17.4	16.4	15.9	16.2	17.0	18.2	19.2	19.4	18.9			
40	18.4	17.8	17.7	18.1	18.8	19.3	18.8	17.6	16.5	15.9	16.2	17.2	18.6	19.8	20.0	19.3			
45	18.5	17.9	17.8	18.3	19.1	19.7	19.2	17.9	16.6	15.9	16.2	17.3	18.9	20.2	20.4	19.6			
50	18.6	17.9	17.8	18.4	19.4	20.0	19.5	18.0	16.5	15.8	16.1	17.3	19.1	20.5	20.7	19.8			
55	18.6	17.9	17.8	18.4	19.5	20.2	19.6	18.0	16.4	15.6	16.0	17.3	19.2	20.8	21.0	19.9			
60	18.5	17.7	17.6	18.3	19.5	20.3	19.7	17.9	16.2	15.4	15.7	17.1	19.2	20.9	21.1	19.9			
65	18.3	17.4	17.4	18.1	19.4	20.3	19.6	17.8	16.0	15.1	15.5	16.9	19.1	20.9	21.1	19.8			
70	18.0	17.1	17.0	17.8	19.3	20.2	19.5	17.5	15.6	14.7	15.1	16.6	18.9	20.7	20.9	19.6			
75	17.6	16.7	16.6	17.5	18.9	19.9	19.2	17.2	15.2	14.3	14.7	16.2	18.6	20.4	20.7	19.2			
80	17.1	16.2	16.1	17.0	18.5	19.6	18.8	16.8	14.8	13.8	14.2	15.8	18.1	20.0	20.3	18.8			
85	16.6	15.6	15.6	16.5	18.0	19.1	18.3	16.2	14.2	13.3	13.7	15.2	17.6	19.5	19.7	18.3			
90	15.9	15.0	14.9	15.8	17.4	18.4	17.7	15.6	13.6	12.7	13.1	14.6	17.0	18.8	19.1	17.6			
95	15.2	14.3	14.2	15.1	16.7	17.7	17.0	15.0	13.0	12.0	12.4	13.9	16.3	18.1	18.3	16.9			
100	14.4	13.5	13.5	14.4	15.9	16.9	16.2	14.2	12.2	11.3	11.6	13.2	15.5	17.2	17.5	16.0			
105	13.5	12.7	12.6	13.5	15.0	16.0	15.3	13.4	11.5	10.6	10.9	12.4	14.6	16.3	16.5	15.1			
110	12.6	11.8	11.8	12.6	14.0	15.0	14.3	12.4	10.7	9.86	10.1	11.6	13.6	15.2	15.5	14.1			
115	11.6	10.9	10.9	11.6	13.0	13.9	13.2	11.5	9.85	9.08	9.34	10.7	12.6	14.1	14.3	13.1			
120	10.6	9.93	9.94	10.6	11.9	12.8	12.1	10.5	9.00	8.28	8.51	9.73	11.4	12.9	13.2	12.0			
125	9.61	8.96	8.98	9.62	10.8	11.5	11.0	9.51	8.12	7.45	7.66	8.78	10.3	11.7	11.8	10.8			
130	8.56	7.98	8.00	8.58	9.63	10.3	9.81	8.50	7.23	6.56	6.80	7.80	9.21	10.4	10.6	9.66			
135	7.49	6.99	7.00	7.53	8.46	9.05	8.62	7.46	6.33	5.73	5.93	6.80	8.06	9.12	9.26	8.47			
140	6.38	5.99	5.97	6.48	7.29	7.80	7.42	6.42	5.44	4.91	5.07	5.78	6.90	7.81	7.94	7.27			
145	5.32	5.00	4.98	5.44	6.08	6.56	6.19	5.39	4.56	4.09	4.22	4.81	5.75	6.46	6.63	6.03			
150	4.28	4.02	4.02	4.41	4.94	5.33	5.03	4.38	3.69	3.29	3.39	3.85	4.61	5.19	5.34	4.85			
155	3.26	3.07	3.08	3.40	3.83	4.14	3.90	3.41	2.86	2.53	2.58	2.94	3.52	3.95	4.08	3.71			
160	2.30	2.18	2.19	2.45	2.78	3.01	2.84	2.48	2.07	1.80	1.83	2.07	2.48	2.78	2.88	2.62			
165	1.34	1.32	0.70	1.21	1.80	1.96	1.85	1.61	1.32	1.09	1.07	1.18	1.43	1.60	1.69	1.53			
170	0.03	0.04	0.03	0.22	0.70	0.49	0.59	0.45	0.22	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
175	0.02	0.02	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	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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