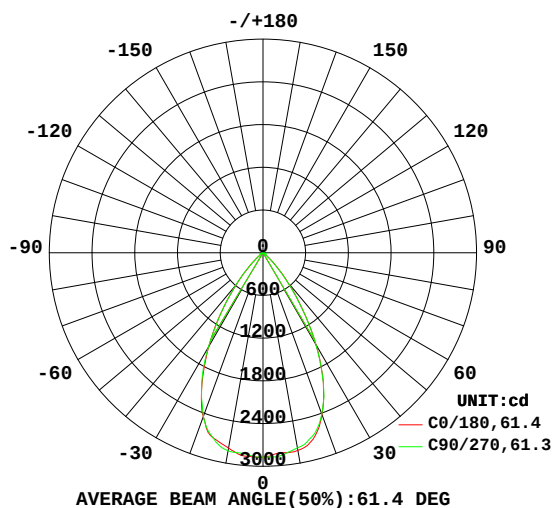


LUMINAIRE PHOTOMETRIC TEST REPORT

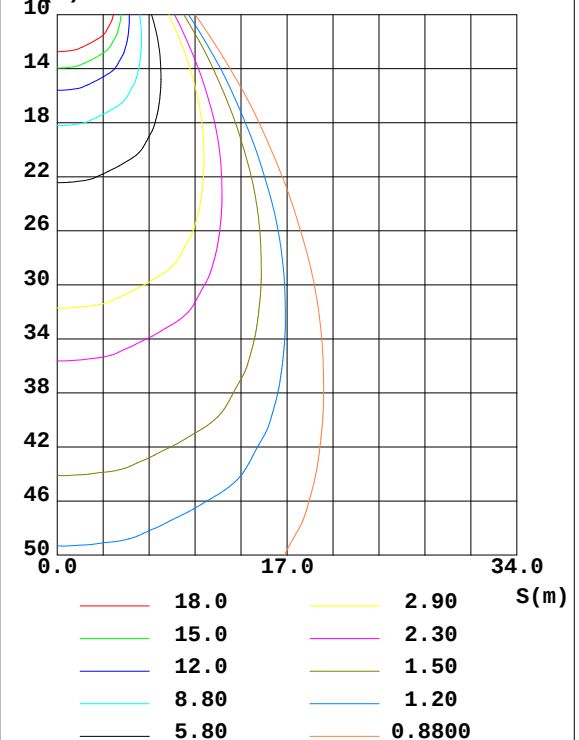
Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	SZ4230517-27146E-10	I _{max} (cd)	2880	S/MH(C0/180)	0.91
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.91
RATED VOLTAGE(V)	0	TOTAL FLUX(lm)	2847.7	η UP, DN(C0-180)	0.1, 50.8
NOMINAL FLUX(lm)	2847.72	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.0
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	0	η down(%)	99.8	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.8DEG
Operators: Carl
Test Date: 2023-05-29

Carl Deng

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 40%
Test Distance: 2.530m [K=1.0000]
Remarks:

Reviewed by: Henry He

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2784	2826	2827	2802	2820	2807	2783	2802	0- 10	270.5	270.5	9.5,9.5
20	2451	2463	2447	2458	2422	2423	2415	2446	10- 20	750.1	1021	35.8,35.8
30	1530	1549	1541	1573	1485	1499	1486	1516	20- 30	915.9	1936	68,68
40	592.8	616.1	595.0	620.9	548.9	558.6	528.4	546.3	30- 40	630.0	2566	90.1,90.1
50	100.5	108.5	100.8	113.8	84.10	90.01	83.68	90.17	40- 50	221.2	2788	97.9,97.9
60	12.81	11.37	10.29	10.83	9.470	10.27	10.24	11.95	50- 60	33.12	2821	99.1,99.1
70	3.063	52.90	51.41	70.26	1.841	43.64	34.92	35.88	60- 70	16.44	2837	99.6,99.6
80	1.289	0.5564	0.2939	0.4246	0.5921	0.3704	0.2632	0.4893	70- 80	5.705	2843	99.8,99.8
90	0.0192	0.0270	0.0184	0.0360	0.0169	0.0134	0.0133	0.0130	80- 90	0.4216	2843	99.8,99.8
100	0.0161	0.0227	0.0335	0.0213	0.0155	0.0165	0.0236	0.0172	90-100	0.0208	2843	99.8,99.8
110	0.0450	0.0521	0.0543	0.0503	0.0247	0.0357	0.0316	0.0317	100-110	0.0326	2843	99.9,99.9
120	0.2129	0.2259	0.2255	0.2204	0.0690	0.0845	0.0874	0.0818	110-120	0.0840	2844	99.9,99.9
130	0.6725	0.7432	0.7536	0.7298	0.2114	0.2400	0.2611	0.2614	120-130	0.2589	2844	99.9,99.9
140	1.594	1.823	1.884	1.763	0.5303	0.5690	0.6299	0.6221	130-140	0.6050	2844	99.9,99.9
150	2.685	3.206	3.339	3.091	0.9536	1.043	1.160	1.130	140-150	1.025	2845	99.9,99.9
160	3.794	4.160	4.342	4.120	1.624	1.614	1.722	1.731	150-160	1.159	2847	100,100
170	3.782	3.896	4.038	3.937	2.120	1.971	1.998	2.092	160-170	0.8485	2847	100,100
180	3.150	2.965	2.967	3.199	3.178	3.073	2.946	3.074	170-180	0.2871	2848	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 2718.1 lm

%lum = 95.4%

%lamp = 95.4%

Conical surface Flux(120deg): 2820.8 lm

%lum = 99.1%

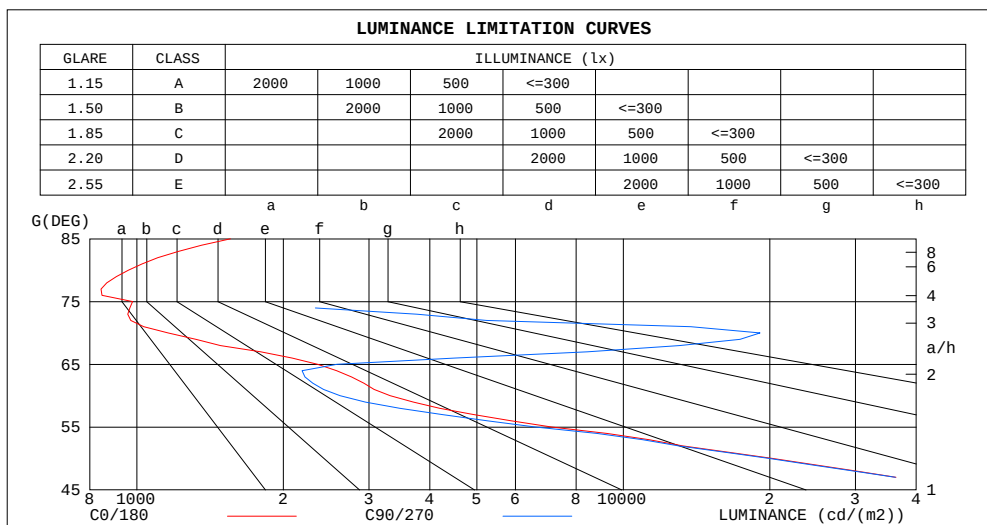
%lamp = 99.1%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.8DEG
 Operators:Carl
 Test Date:2023-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:40%
 Test Distance:2.530m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1557	329
80	961	215
75	980	704
70	1159	19098
65	2352	2579
60	3316	2615
55	7126	6604
50	20243	19934
45	51007	51687

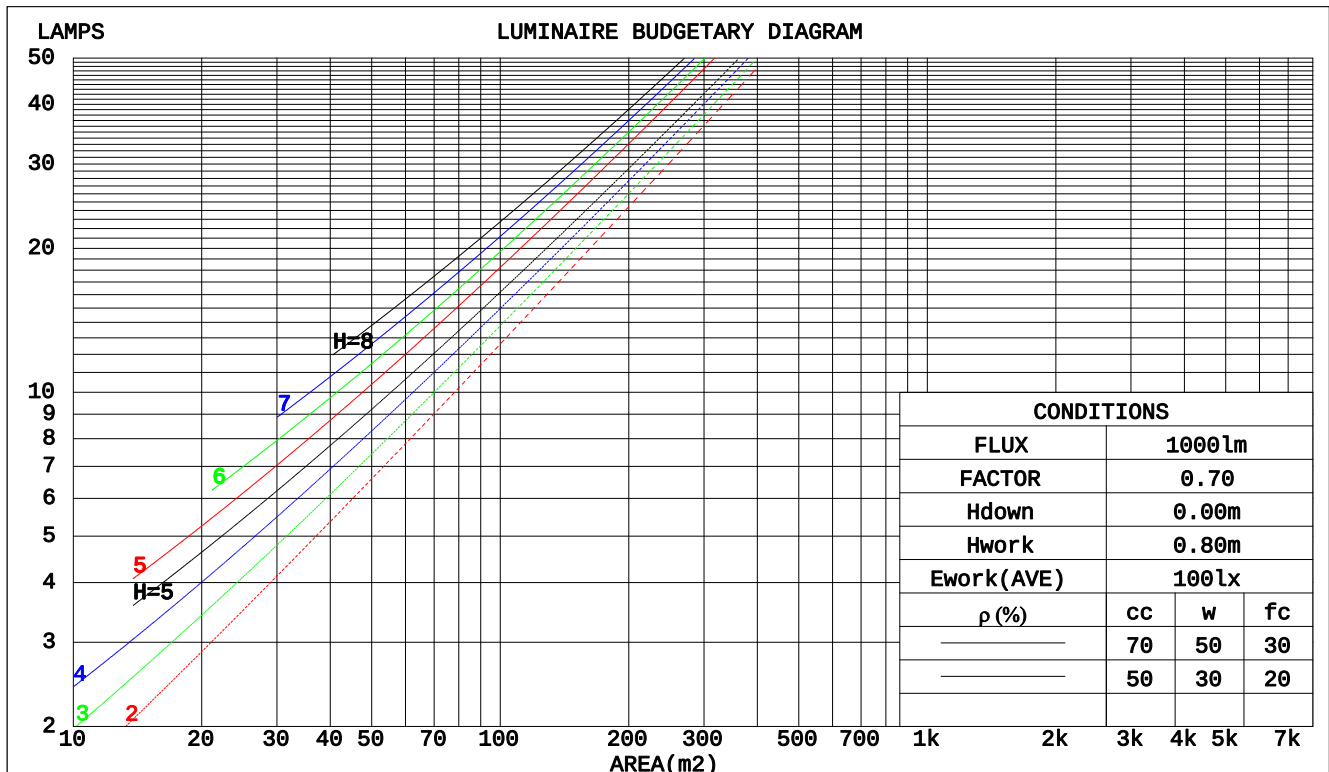
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.8DEG
Operators:Carl
Test Date:2023-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:40%
Test Distance:2.530m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.03	.98	.95	1.01	.97	.94	.98	.94	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.86	.83	.87	.84	.81	.80
4.0	.89	.83	.79	.88	.82	.78	.85	.81	.77	.83	.80	.76	.82	.78	.76	.74
5.0	.83	.77	.73	.82	.76	.72	.80	.75	.72	.78	.74	.71	.77	.73	.70	.69
6.0	.78	.71	.67	.77	.71	.67	.75	.70	.66	.74	.69	.66	.72	.69	.65	.64
7.0	.73	.67	.62	.72	.66	.62	.71	.66	.62	.70	.65	.61	.68	.64	.61	.60
8.0	.68	.62	.58	.68	.62	.58	.67	.61	.58	.66	.61	.57	.65	.60	.57	.56
9.0	.64	.58	.54	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.52
10.0	.61	.55	.51	.60	.55	.51	.59	.54	.51	.59	.54	.50	.58	.54	.50	.49



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.8DEG
Operators:Carl
Test Date:2023-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:40%
Test Distance:2.530m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm									
NAME: PlutoFresnel					TYPE:N/A			WEIGHT:N/A	
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A	
MFR.: Astera LED Technology GmbH					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	.182	.104	.033	.176	.100	.032	.163	.093	.030	.151	.087	.028	.140	.081	.026	
2.0	.175	.096	.029	.170	.093	.029	.159	.088	.027	.149	.084	.026	.140	.079	.025	
3.0	.167	.089	.027	.163	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.023	
4.0	.160	.083	.024	.155	.081	.024	.147	.078	.023	.140	.075	.023	.133	.072	.022	
5.0	.152	.078	.022	.149	.076	.022	.142	.074	.022	.135	.071	.021	.129	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.070	.020	.130	.068	.020	.125	.066	.020	
7.0	.139	.069	.019	.136	.068	.019	.131	.066	.019	.126	.064	.019	.121	.063	.018	
8.0	.133	.065	.018	.131	.064	.018	.126	.063	.018	.121	.061	.018	.117	.060	.017	
9.0	.127	.062	.017	.125	.061	.017	.121	.060	.017	.117	.058	.017	.113	.057	.017	
10.0	.122	.059	.016	.120	.058	.016	.116	.057	.016	.113	.056	.016	.109	.055	.016	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.173	.158	.146	.148	.136	.125	.101	.094	.087	.058	.054	.050	.019	.017	.016	
2.0	.158	.134	.113	.135	.115	.098	.093	.080	.068	.053	.046	.040	.017	.015	.013	
3.0	.146	.115	.090	.125	.099	.078	.086	.069	.055	.050	.040	.032	.016	.013	.011	
4.0	.136	.100	.073	.117	.087	.063	.080	.060	.045	.046	.035	.026	.015	.012	.009	
5.0	.128	.089	.060	.110	.077	.052	.075	.054	.037	.044	.031	.022	.014	.010	.007	
6.0	.120	.079	.050	.103	.069	.044	.071	.048	.031	.041	.028	.018	.013	.009	.006	
7.0	.114	.072	.043	.098	.062	.037	.068	.044	.026	.039	.026	.016	.013	.008	.005	
8.0	.108	.066	.037	.093	.057	.032	.065	.040	.023	.038	.024	.013	.012	.008	.004	
9.0	.103	.061	.032	.089	.053	.028	.062	.037	.020	.036	.022	.012	.012	.007	.004	
10.0	.099	.056	.028	.085	.049	.025	.059	.034	.017	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.8DEG
 Operators:Carl
 Test Date:2023-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:40%
 Test Distance:2.530m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm										
NAME: PlutoFresnel					TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A		
MFR.: Astera LED Technology GmbH					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	22.1	23.1	22.4	23.3	23.5	22.1	23.0	22.3	23.2	23.4
3H	22.0	22.9	22.2	23.1	23.3	22.2	23.1	22.5	23.3	23.5
4H	21.9	22.7	22.1	22.9	23.2	22.1	23.0	22.4	23.2	23.4
6H	21.8	22.6	22.1	22.8	23.1	22.0	22.8	22.3	23.1	23.3
8H	21.7	22.5	22.0	22.8	23.0	22.0	22.7	22.3	23.0	23.3
12H	21.7	22.4	22.0	22.7	23.0	21.9	22.7	22.3	22.9	23.2
4H 2H	21.9	22.7	22.2	23.0	23.2	21.8	22.7	22.1	22.9	23.1
3H	21.7	22.5	22.1	22.8	23.0	22.1	22.8	22.4	23.1	23.4
4H	21.7	22.3	22.0	22.6	22.9	22.0	22.7	22.4	23.0	23.3
6H	21.6	22.1	21.9	22.5	22.8	21.9	22.5	22.3	22.9	23.2
8H	21.5	22.1	21.9	22.4	22.8	21.9	22.4	22.3	22.8	23.1
12H	21.5	22.0	21.9	22.3	22.7	21.8	22.3	22.2	22.7	23.1
8H 4H	21.5	22.1	21.9	22.4	22.8	21.9	22.4	22.3	22.8	23.2
6H	21.4	21.9	21.9	22.3	22.7	21.8	22.2	22.2	22.6	23.1
8H	21.4	21.8	21.8	22.2	22.7	21.7	22.1	22.2	22.6	23.0
12H	21.3	21.7	21.8	22.1	22.6	21.7	22.0	22.2	22.5	22.9
12H 4H	21.5	22.0	21.9	22.4	22.8	21.8	22.3	22.3	22.7	23.1
6H	21.4	21.8	21.8	22.2	22.6	21.7	22.1	22.2	22.6	23.0
8H	21.3	21.7	21.8	22.1	22.6	21.7	22.0	22.2	22.5	22.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / -13.6					+ 2.4 / - 6.9				
1.5H	+ 4.9 / -10.2					+ 4.3 / - 5.3				
2.0H	+ 6.7 / -10.6					+ 6.9 / -12.5				

CIE Pub.117 Corrected 2848 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.6)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.8DEG
Operators:Carl
Test Date:2023-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:40%
Test Distance:2.530m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:N/A	Shielding Angle:N/A

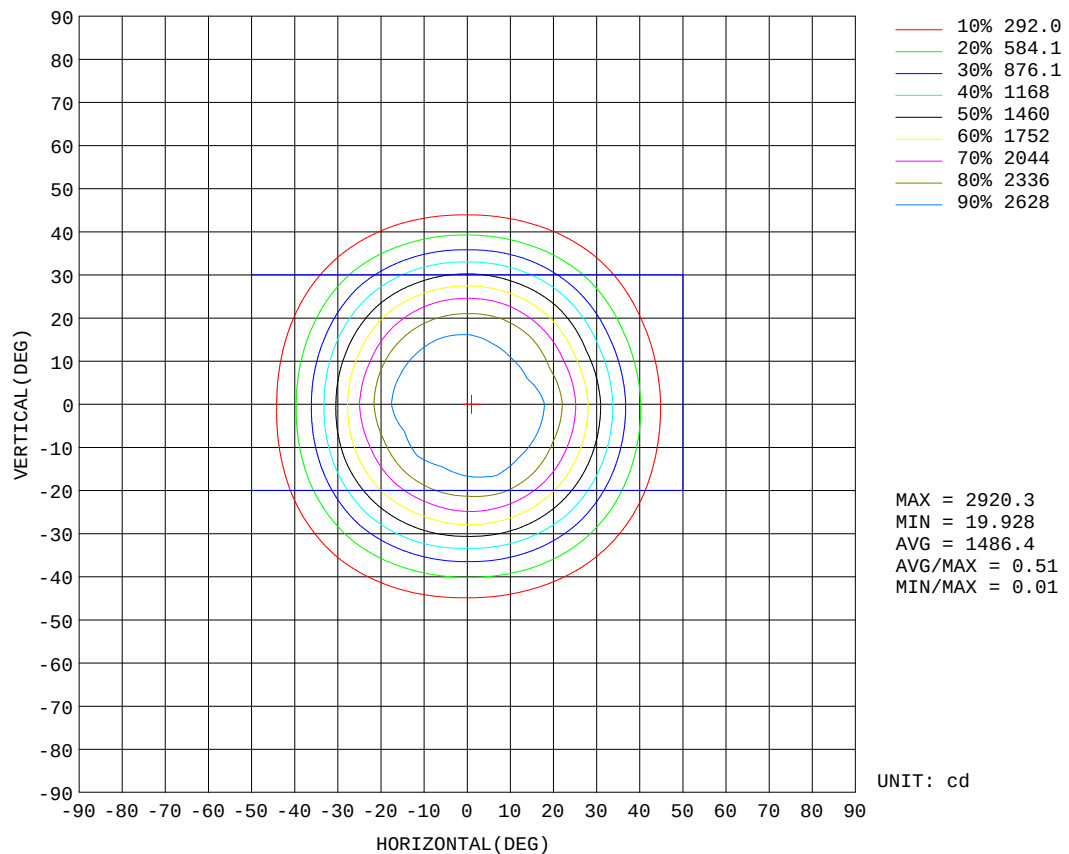
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	92	87	83	91	86	82	79
1.00	98	92	88	97	92	88	96	92	88	83
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	91
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	111	109	109	107	106	98
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:25.8DEG
 Operators:Carl
 Test Date:2023-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:40%
 Test Distance:2.530m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:N/A	Shielding Angle:N/A

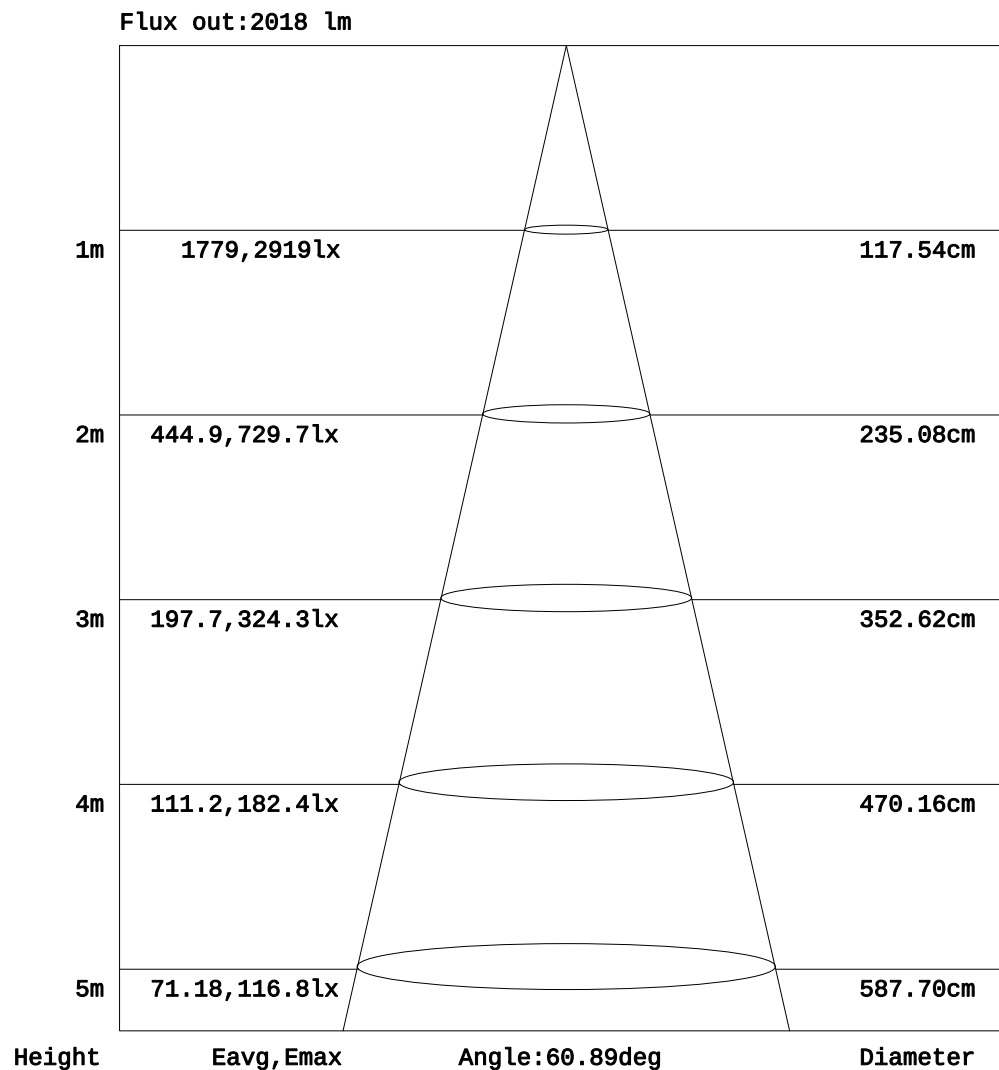


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.8DEG
Operators:Carl
Test Date:2023-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:40%
Test Distance:2.530m [K=1.0000]
Remarks:

AAI Figure

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:N/A	Shielding Angle:N/A



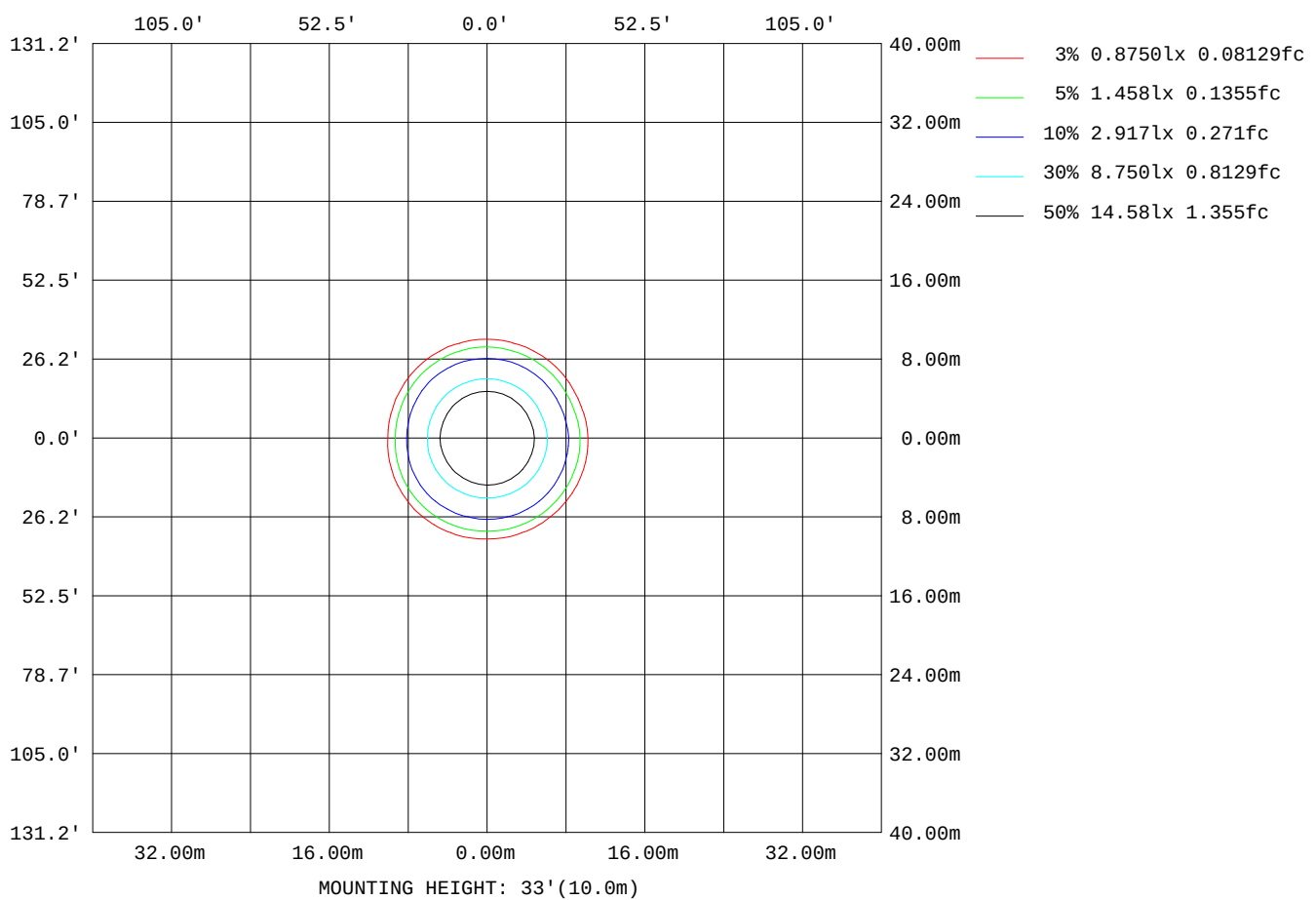
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.8DEG
 Operators:Carl
 Test Date:2023-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:40%
 Test Distance:2.530m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.8DEG
Operators: Carl
Test Date: 2023-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 40%
Test Distance: 2.530m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:N/A	Shielding Angle:N/A

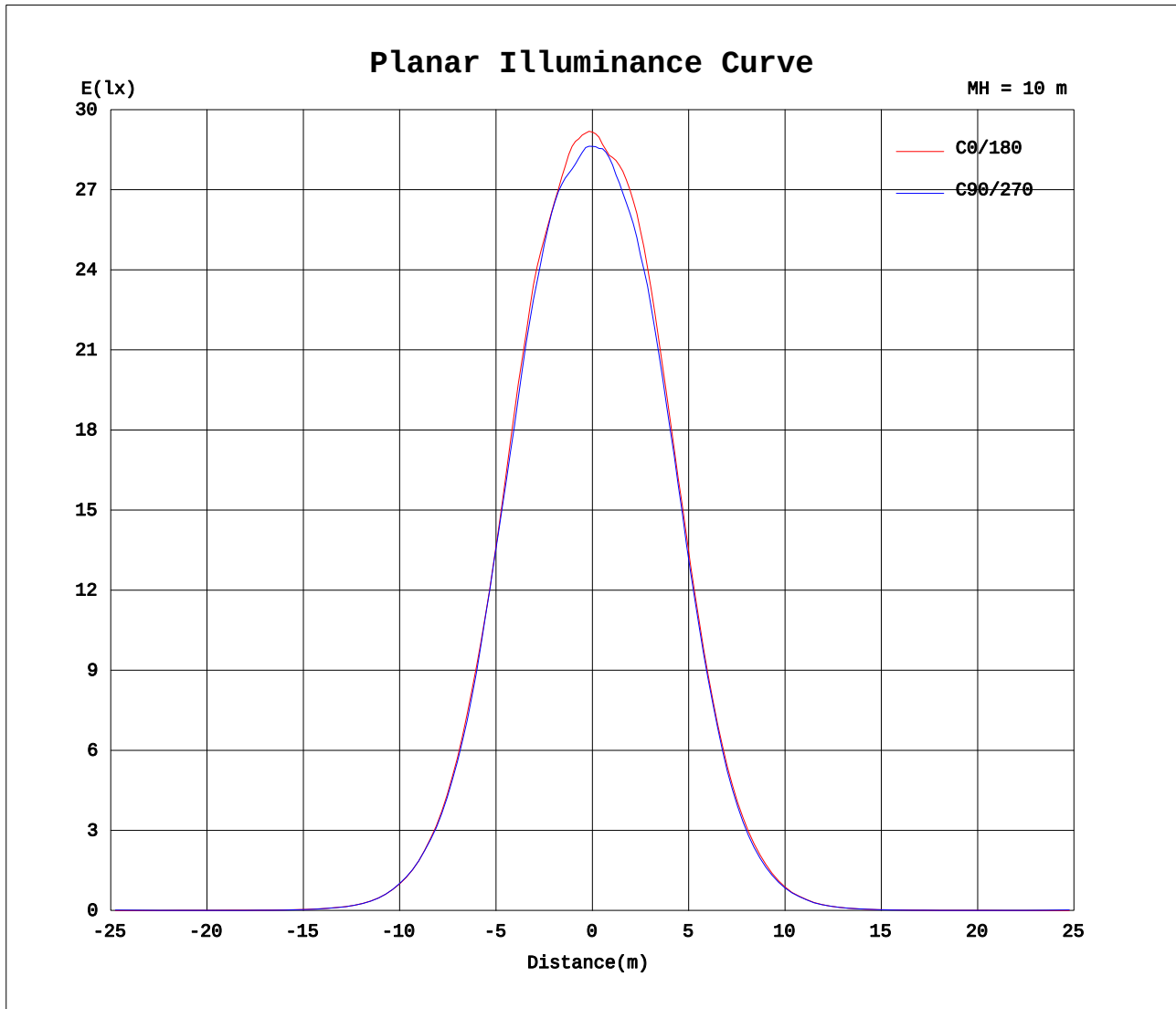
AvgL	cd/m2
L_0~180(65)av	2079
L_0~180(75)av	724
L_0~180(85)av	1118
L_90~270(65)av	2935
L_90~270(75)av	585
L_90~270(85)av	294
L_45(65)av	3143
L_45(75)av	755
L_45(85)av	523

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.8DEG
Operators:Carl
Test Date:2023-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:40%
Test Distance:2.530m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.8DEG
Operators: Carl
Test Date: 2023-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 40%
Test Distance: 2.530m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2847.72x1 lm																	
NAME: PlutoFresnel									TYPE:N/A						WEIGHT:N/A		
SPEC.:N/A									DIM.: N/A						SERIAL No.:N/A		
MFR.: Astera LED Technology GmbH									SUR.:N/A						Shielding Angle:N/A		

Table--1

UNIT: cd

C(°)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
γ (°)	0	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870			
5	2868	2880	2858	2842	2837	2826	2819	2817	2816	2842	2861	2863	2861	2852	2845	2851			
10	2784	2815	2826	2789	2827	2806	2802	2824	2820	2797	2807	2771	2783	2772	2802	2780			
15	2695	2703	2683	2708	2699	2674	2710	2696	2715	2675	2679	2691	2671	2653	2649	2671			
20	2451	2432	2463	2501	2447	2439	2458	2441	2422	2429	2423	2410	2415	2446	2446	2419			
25	2027	2031	2042	2044	2041	2009	2032	2029	2010	1973	1997	2002	2009	2024	2018	2025			
30	1530	1545	1549	1552	1541	1552	1573	1577	1485	1481	1499	1482	1486	1489	1516	1489			
35	1024	1045	1057	1037	1017	1048	1065	1033	966	969	998	978	954	980	987	985			
40	593	606	616	609	595	603	621	606	549	547	559	539	528	530	546	544			
45	279	292	292	289	288	302	306	289	246	248	249	249	241	246	252	254			
50	101	107	109	102	101	109	114	102	84.1	86.1	90.0	86.7	83.7	86.8	90.2	91.7			
55	31.6	32.4	33.3	31.0	29.8	33.2	33.9	30.1	25.5	26.0	27.8	26.5	26.3	26.5	28.6	29.0			
60	12.8	12.6	11.4	10.7	10.3	10.5	10.8	10.6	9.47	10.2	10.3	10.1	10.2	11.0	12.0	13.5			
65	7.68	8.59	7.72	7.90	8.58	9.79	11.1	9.07	6.11	15.4	12.8	8.94	10.9	8.84	10.2	10.4			
70	3.06	3.90	52.9	54.7	51.4	63.2	70.3	5.06	1.84	2.57	43.6	37.0	34.9	34.0	35.9	3.19			
75	1.96	2.00	1.78	1.70	1.43	1.62	1.68	1.02	0.98	1.11	1.33	1.08	0.94	1.21	1.34	1.78			
80	1.29	1.15	0.56	0.52	0.29	0.60	0.42	0.52	0.59	0.55	0.37	0.28	0.26	0.35	0.49	1.10			
85	1.05	0.92	0.43	0.29	0.23	0.27	0.33	0.43	0.48	0.43	0.28	0.22	0.18	0.27	0.39	0.83			
90	0.02	0.03	0.03	0.02	0.02	0.02	0.04	0.05	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
95	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01			
100	0.02	0.02	0.02	0.05	0.03	0.04	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.02	0.02			
105	0.02	0.02	0.04	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.03	0.03	0.02	0.03	0.03	0.02			
110	0.04	0.04	0.05	0.06	0.05	0.06	0.05	0.05	0.02	0.03	0.04	0.04	0.03	0.04	0.03	0.03			
115	0.10	0.10	0.11	0.13	0.11	0.12	0.11	0.10	0.04	0.04	0.05	0.06	0.05	0.06	0.05	0.04			
120	0.21	0.21	0.23	0.24	0.23	0.23	0.22	0.22	0.07	0.07	0.08	0.09	0.09	0.09	0.08	0.07			
125	0.39	0.40	0.42	0.44	0.43	0.43	0.41	0.40	0.12	0.13	0.14	0.15	0.15	0.16	0.14	0.12			
130	0.67	0.69	0.74	0.76	0.75	0.75	0.73	0.69	0.21	0.23	0.24	0.26	0.26	0.27	0.26	0.22			
135	1.05	1.10	1.19	1.21	1.22	1.21	1.15	1.08	0.36	0.36	0.38	0.42	0.42	0.43	0.42	0.38			
140	1.59	1.72	1.82	1.87	1.88	1.87	1.76	1.65	0.53	0.49	0.57	0.62	0.63	0.63	0.62	0.58			
145	2.17	2.37	2.58	2.66	2.69	2.65	2.48	2.25	0.73	0.70	0.82	0.91	0.92	0.92	0.89	0.85			
150	2.69	2.96	3.21	3.33	3.34	3.31	3.09	2.83	0.95	0.91	1.04	1.11	1.16	1.17	1.13	1.12			
155	3.32	3.60	3.81	3.96	4.02	3.88	3.71	3.50	1.24	1.16	1.35	1.40	1.45	1.49	1.45	1.47			
160	3.79	3.92	4.16	4.39	4.34	4.28	4.12	3.92	1.62	1.57	1.61	1.64	1.72	1.75	1.73	1.76			
165	3.97	4.02	4.16	4.33	4.43	4.27	4.21	4.04	1.90	1.86	1.78	1.82	1.86	1.93	1.92	1.99			
170	3.78	3.78	3.90	4.02	4.04	3.98	3.94	3.90	2.12	2.10	1.97	1.97	2.00	2.06	2.09	2.19			
175	3.61	3.58	3.55	3.56	3.56	3.57	3.65	3.69	2.58	2.57	2.47	2.38	2.39	2.39	2.52	2.61			
180	3.15	3.05	2.96	2.93	2.97	3.07	3.20	3.26	3.18	3.16	3.07	2.99	2.95	2.99	3.07	3.20			

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