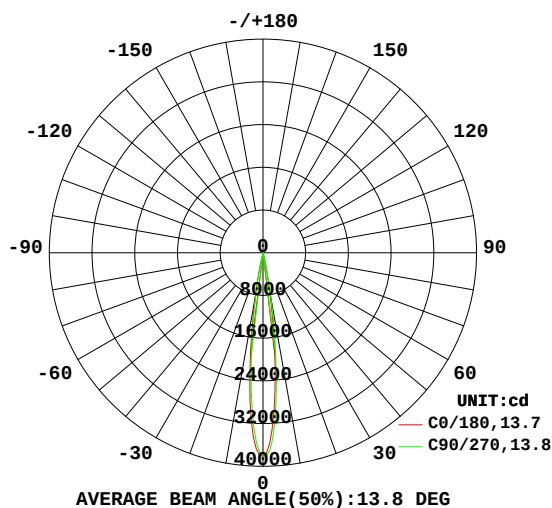


LUMINAIRE PHOTOMETRIC TEST REPORT

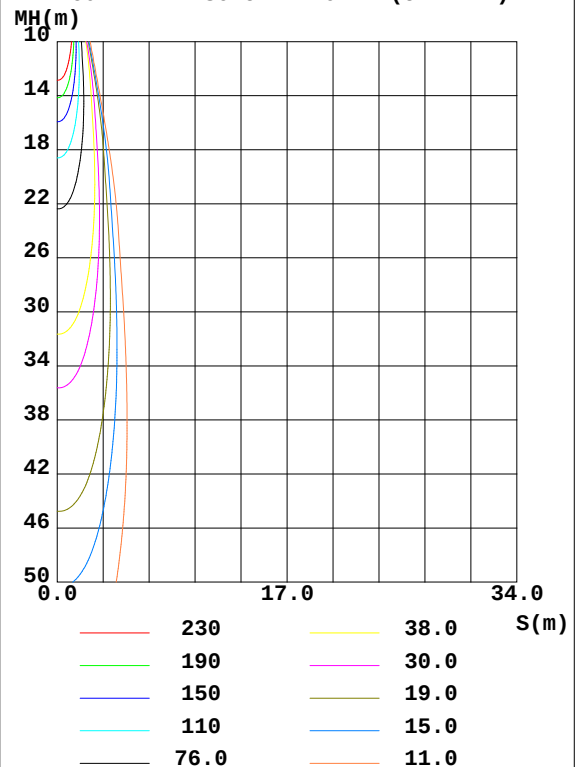
Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2430.83x1 lm		
NAME: PlutoFresnel	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	SZ4230517-27146E-10	I _{max} (cd)	38147	S/MH(C0/180)	0.23
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.24
RATED VOLTAGE(V)	0	TOTAL FLUX(lm)	2430.8	η UP, DN(C0-180)	0.2, 48.8
NOMINAL FLUX(lm)	2430.83	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.9
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	0	η down(%)	99.8	CIBSE SHR MAX	1.00

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

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	818.8	730.6	709.5	798.2	698.5	828.5	851.7	827.1	0- 10	1922	1922	79.1, 79.1
20	14.92	12.31	11.93	13.83	12.30	14.64	15.41	16.92	10- 20	402.9	2325	95.6, 95.6
30	3.825	3.427	3.367	3.634	3.474	3.668	3.830	4.322	20- 30	31.21	2356	96.9, 96.9
40	2.339	2.294	2.257	2.244	2.246	2.364	2.409	2.509	30- 40	17.30	2373	97.6, 97.6
50	1.910	1.898	1.871	1.895	1.898	1.959	1.987	1.987	40- 50	16.34	2390	98.3, 98.3
60	1.523	2.442	2.409	2.505	1.359	2.776	2.639	2.471	50- 60	18.75	2409	99.1, 99.1
70	0.4672	0.5548	0.6006	0.6805	0.5213	0.6005	0.5958	0.5858	60- 70	13.60	2422	99.6, 99.6
80	0.0325	0.0418	0.0849	0.0943	0.0271	0.0511	0.0572	0.0478	70- 80	2.675	2425	99.8, 99.8
90	0.0015	0.0014	0.0015	0.0021	0.0015	0.0012	0.0013	0.0011	80- 90	0.1724	2425	99.8, 99.8
100	0.0016	0.0016	0.0020	0.0016	0.0013	0.0012	0.0014	0.0012	90-100	0.0155	2425	99.8, 99.8
110	0.0015	0.0018	0.0019	0.0017	0.0012	0.0013	0.0013	0.0012	100-110	0.0164	2425	99.8, 99.8
120	0.0016	0.0015	0.0017	0.0015	0.0013	0.0012	0.0015	0.0013	110-120	0.0143	2425	99.8, 99.8
130	0.0034	0.0038	0.0039	0.0042	0.0020	0.0021	0.0020	0.0023	120-130	0.0172	2425	99.8, 99.8
140	0.1424	0.1572	0.1629	0.1551	0.0203	0.0186	0.0186	0.0201	130-140	0.1579	2425	99.8, 99.8
150	0.5453	0.7790	0.8325	0.7605	0.1113	0.1800	0.2009	0.1980	140-150	1.648	2427	99.8, 99.8
160	0.7878	0.9756	0.9971	0.9711	0.1136	0.1314	0.1620	0.1683	150-160	2.482	2429	99.9, 99.9
170	0.5484	0.5490	0.5500	0.5931	0.0587	0.0554	0.0555	0.0563	160-170	1.277	2431	100, 100
180	0.0725	0.0634	0.0544	0.0654	0.0848	0.0762	0.0662	0.0903	170-180	0.2041	2431	100, 100
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm		

Conical surface Flux(90deg): 2381.6 lm

%lum = 98.0%

%lamp = 98.0%

Conical surface Flux(120deg): 2408.5 lm

%lum = 99.1%

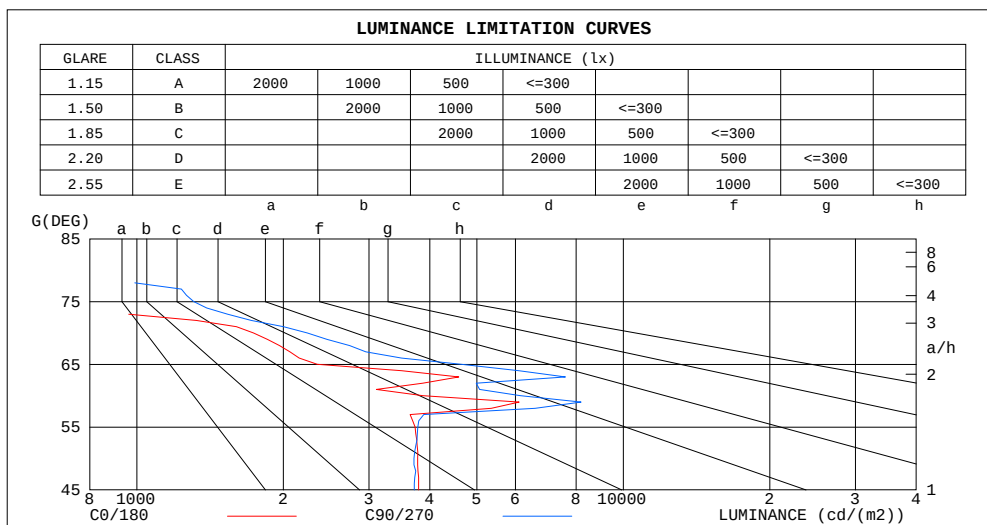
%lamp = 99.1%

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:2430.83x1 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	379	83
80	238	624
75	548	1309
70	1736	2239
65	2349	4645
60	3871	6143
55	3732	3781
50	3777	3712
45	3795	3719

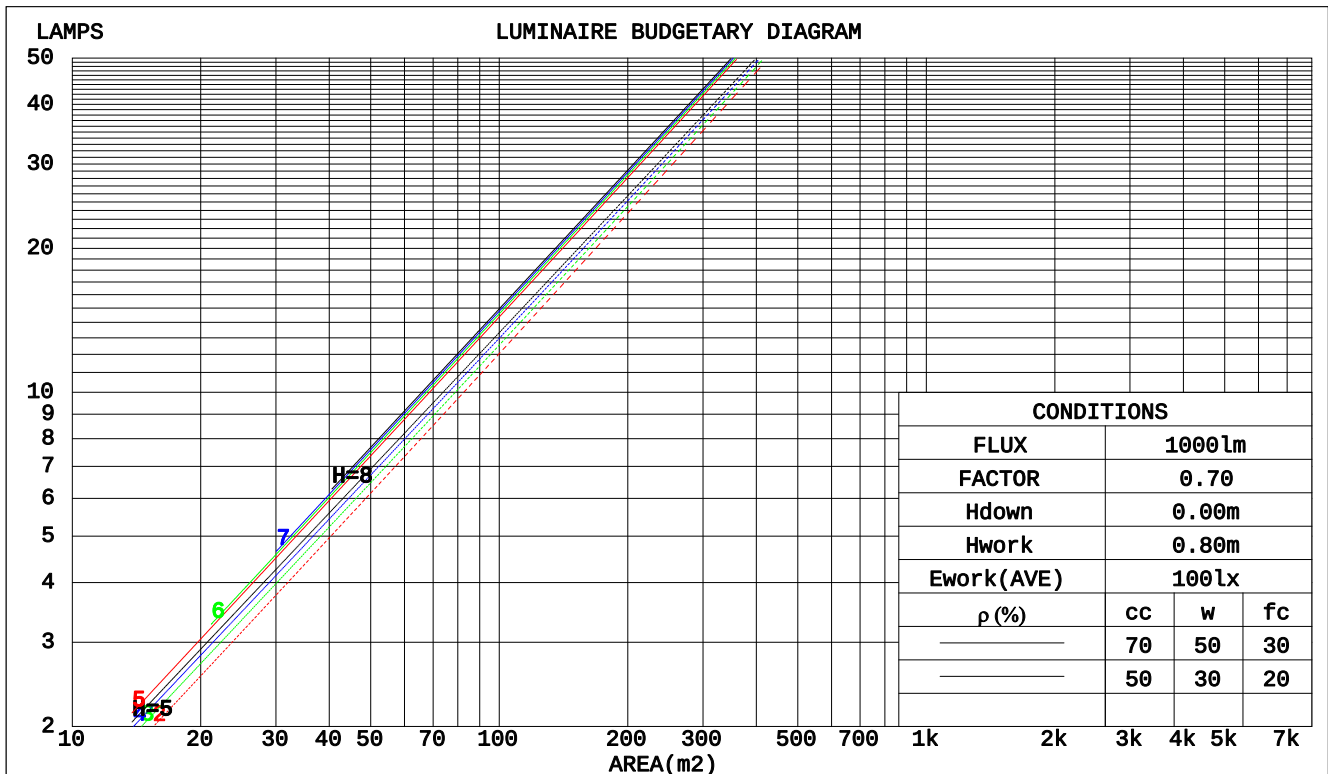
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.8DEG
Operators:Carl
Test Date:2023-05-29

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:2430.83x1 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	1.14	1.13	1.11	1.12	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.01	1.00	.99
2.0	1.11	1.08	1.06	1.09	1.07	1.05	1.06	1.04	1.03	1.03	1.02	1.01	1.00	.99	.99	.97
3.0	1.08	1.05	1.03	1.06	1.04	1.02	1.04	1.02	1.00	1.02	1.00	.99	.00	.98	.97	.96
4.0	1.05	1.02	1.00	1.04	1.02	.00	1.02	1.00	.98	1.01	.99	.97	.99	.97	.96	.95
5.0	1.03	1.00	.98	1.02	.00	.98	1.01	.99	.97	.99	.98	.96	.98	.97	.95	.94
6.0	1.01	.99	.97	1.01	.98	.96	.00	.97	.96	.98	.97	.95	.97	.96	.94	.94
7.0	1.00	.97	.95	.00	.97	.95	.99	.96	.95	.98	.96	.94	.97	.95	.94	.93
8.0	.99	.96	.94	.98	.96	.94	.98	.95	.94	.97	.95	.93	.96	.94	.93	.92
9.0	.98	.95	.93	.97	.95	.93	.97	.94	.93	.96	.94	.93	.95	.94	.92	.92
10.0	.97	.94	.92	.96	.94	.92	.96	.94	.92	.95	.93	.92	.95	.93	.92	.91



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:2430.83x1 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	.109	.062	.020	.102	.058	.018	.090	.051	.016	.078	.045	.015	.068	.039	.013	
2.0	.098	.054	.016	.093	.051	.016	.082	.046	.014	.073	.041	.013	.065	.037	.012	
3.0	.089	.047	.014	.084	.045	.014	.076	.041	.013	.068	.037	.011	.061	.034	.010	
4.0	.081	.042	.012	.077	.040	.012	.070	.037	.011	.064	.034	.010	.058	.032	.010	
5.0	.074	.038	.011	.071	.037	.011	.065	.034	.010	.060	.032	.009	.055	.029	.009	
6.0	.069	.034	.010	.066	.033	.010	.061	.031	.009	.057	.029	.009	.052	.028	.008	
7.0	.064	.031	.009	.061	.031	.009	.057	.029	.008	.053	.027	.008	.050	.026	.008	
8.0	.059	.029	.008	.058	.028	.008	.054	.027	.008	.051	.026	.007	.048	.024	.007	
9.0	.056	.027	.008	.054	.026	.007	.051	.025	.007	.048	.024	.007	.045	.023	.007	
10.0	.052	.025	.007	.051	.025	.007	.048	.024	.007	.046	.023	.006	.043	.022	.006	

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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.168	.160	.152	.144	.137	.131	.098	.094	.091	.057	.055	.053	.018	.018	.017	
2.0	.148	.135	.123	.127	.116	.107	.087	.080	.074	.050	.047	.044	.016	.015	.014	
3.0	.131	.115	.102	.113	.099	.088	.077	.069	.062	.045	.040	.036	.014	.013	.012	
4.0	.117	.099	.085	.101	.086	.074	.069	.060	.052	.040	.035	.031	.013	.011	.010	
5.0	.105	.086	.072	.090	.075	.063	.062	.052	.044	.036	.031	.026	.012	.010	.009	
6.0	.095	.076	.062	.082	.066	.054	.056	.046	.038	.033	.027	.023	.011	.009	.007	
7.0	.086	.067	.054	.074	.058	.047	.051	.041	.033	.030	.024	.020	.010	.008	.007	
8.0	.079	.060	.047	.068	.052	.041	.047	.036	.029	.027	.021	.017	.009	.007	.006	
9.0	.072	.054	.041	.062	.047	.036	.043	.033	.025	.025	.019	.015	.008	.006	.005	
10.0	.067	.049	.036	.058	.042	.032	.040	.030	.023	.023	.018	.013	.008	.006	.004	

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:2430.83x1 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	8.6	9.0	8.8	9.2	9.3	9.3	9.7	9.4	9.8	10.0
3H	8.9	9.3	9.1	9.5	9.7	9.8	10.2	10.0	10.4	10.5
4H	8.8	9.2	9.1	9.4	9.7	9.8	10.2	10.0	10.4	10.6
6H	8.8	9.2	9.0	9.4	9.6	9.7	10.1	10.0	10.3	10.6
8H	8.7	9.1	9.0	9.3	9.6	9.7	10.1	10.0	10.3	10.6
12H	8.7	9.1	9.0	9.3	9.6	9.6	10.0	9.9	10.3	10.5
4H 2H	9.4	9.8	9.6	10.0	10.2	9.9	10.3	10.1	10.5	10.7
3H	9.6	10.0	9.9	10.3	10.5	10.3	10.7	10.6	11.0	11.2
4H	9.6	9.9	9.9	10.2	10.5	10.3	10.7	10.7	11.0	11.3
6H	9.5	9.8	9.8	10.1	10.5	10.3	10.6	10.7	10.9	11.3
8H	9.4	9.7	9.8	10.1	10.4	10.2	10.5	10.6	10.9	11.2
12H	9.4	9.6	9.8	10.0	10.4	10.2	10.4	10.6	10.8	11.2
8H 4H	9.5	9.8	9.9	10.1	10.5	10.2	10.5	10.6	10.9	11.2
6H	9.4	9.6	9.8	10.0	10.4	10.2	10.4	10.6	10.8	11.2
8H	9.3	9.5	9.7	9.9	10.4	10.1	10.3	10.5	10.7	11.2
12H	9.2	9.4	9.7	9.9	10.3	10.0	10.2	10.5	10.7	11.1
12H 4H	9.4	9.7	9.8	10.1	10.4	10.2	10.4	10.6	10.8	11.2
6H	9.3	9.5	9.7	9.9	10.4	10.1	10.3	10.5	10.7	11.2
8H	9.2	9.4	9.7	9.9	10.3	10.0	10.2	10.5	10.7	11.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 2.1					+ 0.8 / - 1.9				
1.5H	+ 3.4 / - 2.2					+ 2.8 / - 1.5				
2.0H	+ 5.7 / - 4.2					+ 4.8 / - 5.2				

CIE Pub.117 Corrected 2431 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.1)

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:

UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:1.000 Lamp Flux:2430.83x1 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

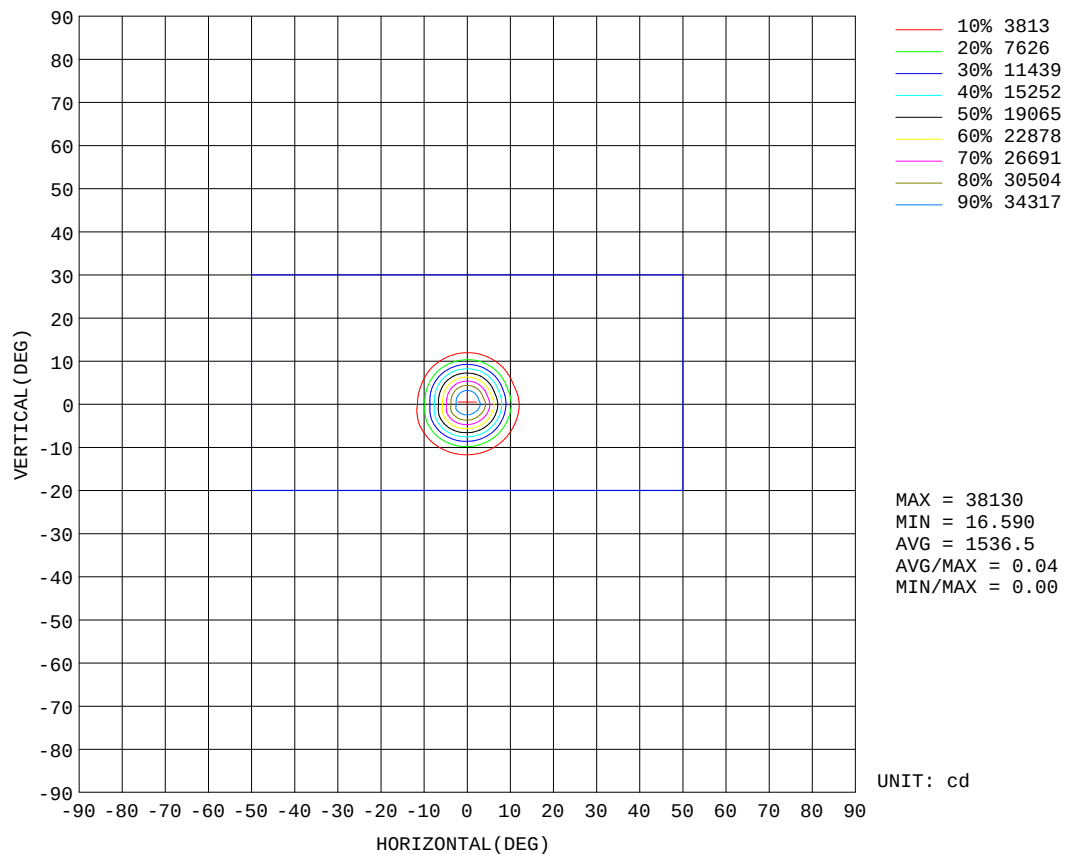
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	81	90	84	81	89	84	81	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	106	103	108	104	102	105	102	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	100
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:2430.83x1 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

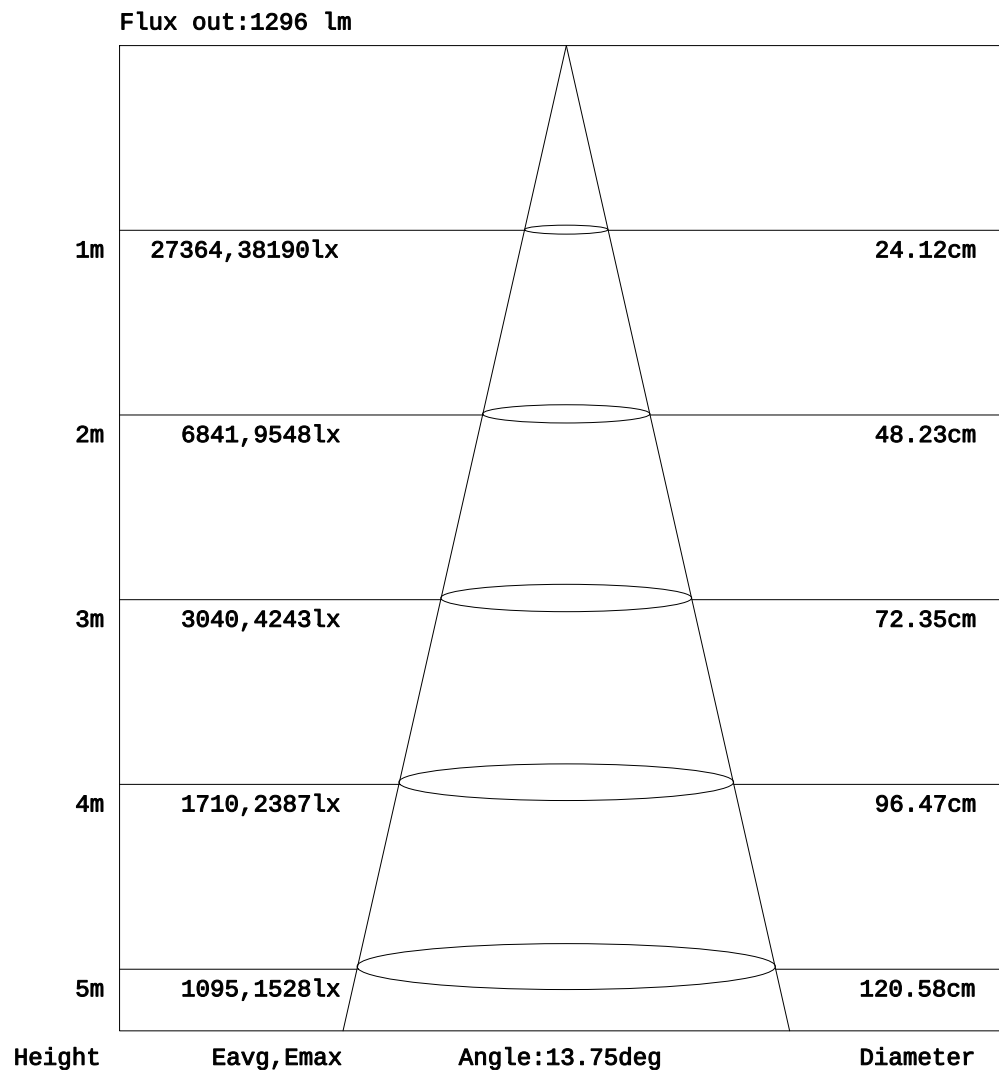


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.8DEG
Operators:Carl
Test Date:2023-05-29

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:2430.83x1 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



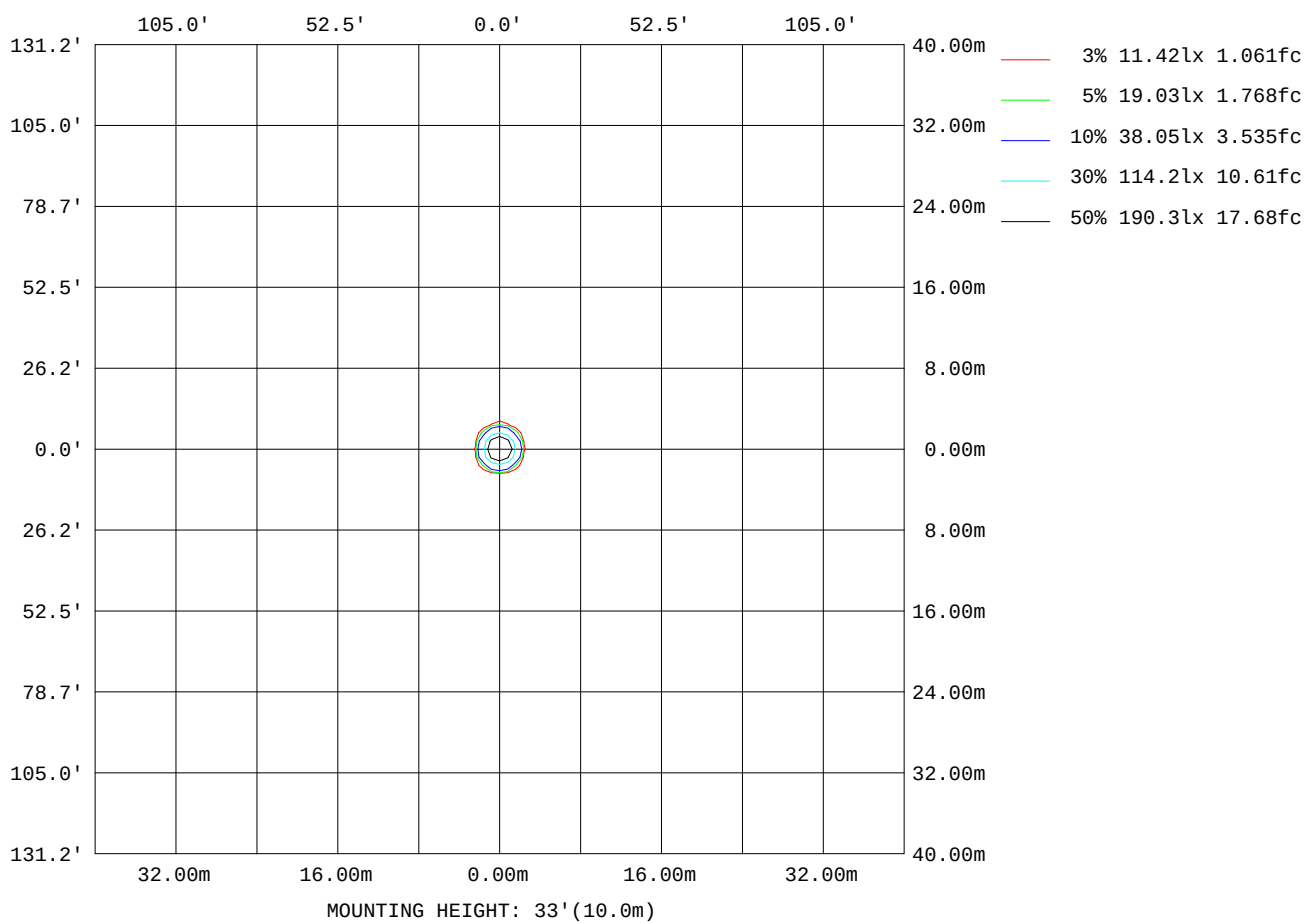
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:2430.83x1 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:2430.83x1 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

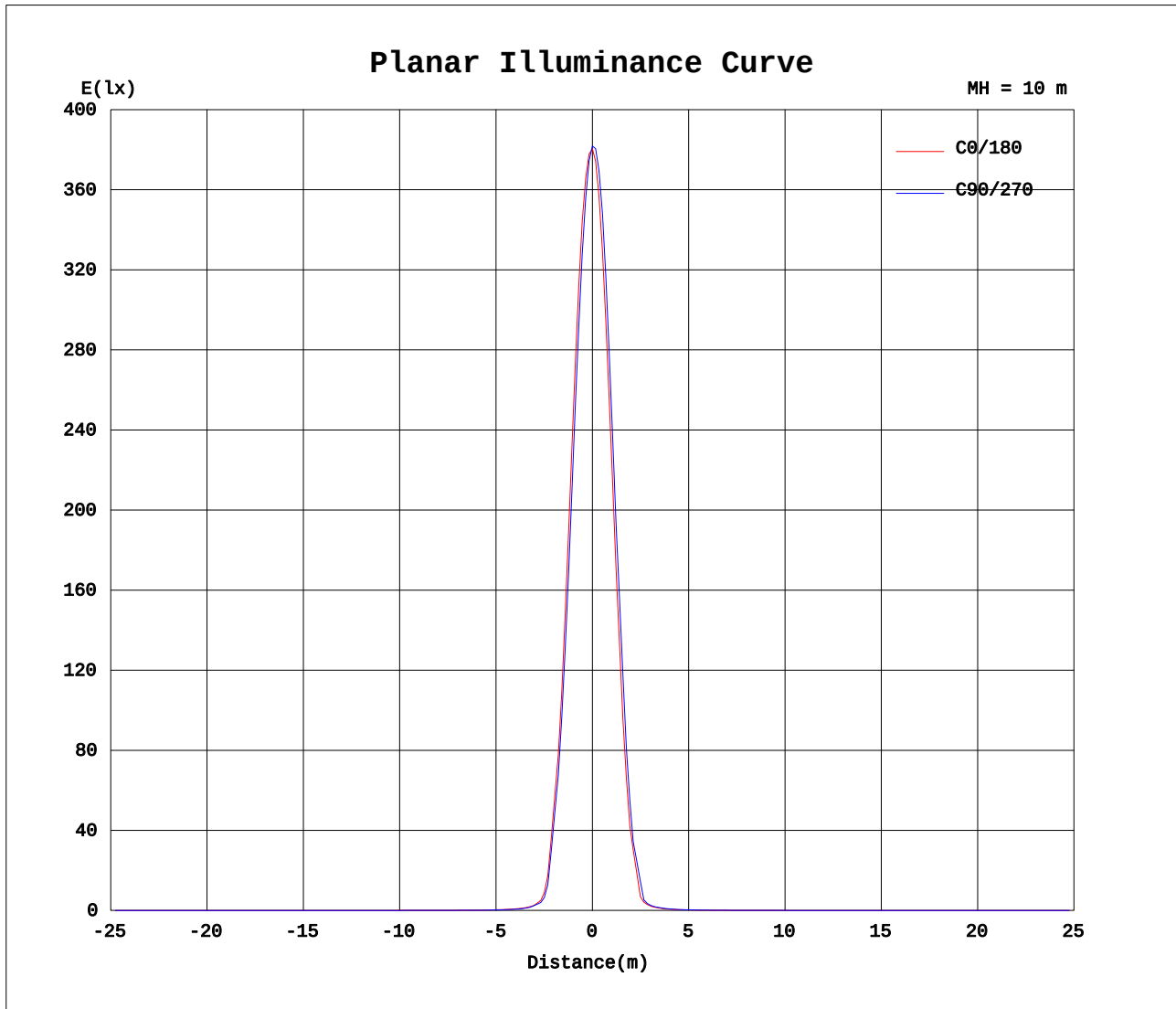
AvgL	cd/m2
L_0~180(65)av	2388
L_0~180(75)av	696
L_0~180(85)av	350
L_90~270(65)av	4918
L_90~270(75)av	1254
L_90~270(85)av	87
L_45(65)av	4892
L_45(75)av	1238
L_45(85)av	161

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:2430.83x1 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: ×10cd

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	3815	3815	3815	3815	3815	3815	3815	3815	3815	3815	3815	3815	3815	3815	3815			
5	2785	2716	2621	2567	2562	2618	2683	2727	2586	2672	2752	2809	2809	2798	2752	2677			
10	819	764	731	705	710	746	798	810	699	766	828	840	852	854	827	757			
15	56.2	66.0	59.8	58.5	44.8	57.8	62.5	71.2	46.9	52.8	56.8	60.0	59.0	62.0	61.0	55.6			
20	14.9	13.0	12.3	12.0	11.9	12.8	13.8	13.7	12.3	13.8	14.6	14.6	15.4	16.4	16.9	16.0			
25	6.88	6.10	5.67	5.62	5.65	5.87	6.35	6.27	5.76	5.83	5.96	6.02	6.71	7.00	7.50	7.06			
30	3.82	3.51	3.43	3.37	3.37	3.46	3.63	3.60	3.47	3.58	3.67	3.66	3.83	4.09	4.32	4.07			
35	2.73	2.54	2.58	2.54	2.53	2.55	2.62	2.57	2.55	2.62	2.70	2.65	2.79	2.91	3.02	2.89			
40	2.34	2.19	2.29	2.25	2.26	2.24	2.24	2.23	2.25	2.28	2.36	2.29	2.41	2.47	2.51	2.43			
45	2.11	2.00	2.10	2.08	2.06	2.06	2.06	2.04	2.07	2.10	2.17	2.10	2.20	2.21	2.23	2.18			
50	1.91	1.82	1.90	1.88	1.87	1.89	1.90	1.87	1.90	1.91	1.96	1.91	1.99	1.99	1.99	1.97			
55	1.68	1.62	1.66	1.69	1.70	1.73	1.72	1.70	1.68	1.69	1.74	1.72	1.78	1.76	1.74	1.75			
60	1.52	2.01	2.44	2.59	2.41	2.50	2.50	1.97	1.36	2.10	2.78	2.61	2.64	2.64	2.47	1.72			
65	0.78	1.32	1.52	1.45	1.54	1.55	1.52	1.36	0.80	1.34	1.78	1.82	1.72	1.68	1.67	1.26			
70	0.47	0.44	0.55	0.57	0.60	0.66	0.68	0.56	0.52	0.49	0.60	0.60	0.60	0.58	0.59	0.46			
75	0.11	0.14	0.21	0.23	0.27	0.32	0.34	0.26	0.17	0.16	0.23	0.24	0.24	0.23	0.23	0.13			
80	0.03	0.03	0.04	0.05	0.08	0.16	0.09	0.02	0.03	0.02	0.05	0.07	0.06	0.06	0.05	0.03			
85	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
140	0.14	0.14	0.16	0.16	0.16	0.16	0.16	0.14	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02			
145	0.40	0.37	0.49	0.51	0.51	0.51	0.49	0.37	0.09	0.05	0.10	0.11	0.11	0.11	0.11	0.08			
150	0.55	0.61	0.78	0.83	0.83	0.83	0.76	0.59	0.11	0.11	0.18	0.20	0.20	0.20	0.20	0.16			
155	0.72	0.81	0.95	1.03	1.05	1.02	0.93	0.79	0.13	0.12	0.23	0.25	0.26	0.27	0.26	0.23			
160	0.79	0.83	0.98	0.99	1.00	0.99	0.97	0.86	0.11	0.11	0.13	0.15	0.16	0.17	0.17	0.16			
165	0.75	0.77	0.84	0.85	0.84	0.87	0.86	0.80	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.08			
170	0.55	0.52	0.55	0.56	0.55	0.57	0.59	0.59	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.06			
175	0.29	0.27	0.26	0.27	0.27	0.28	0.32	0.35	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05			
180	0.07	0.07	0.06	0.06	0.05	0.06	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.08	0.09	0.10			

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 C Interval: 22.5DEG
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