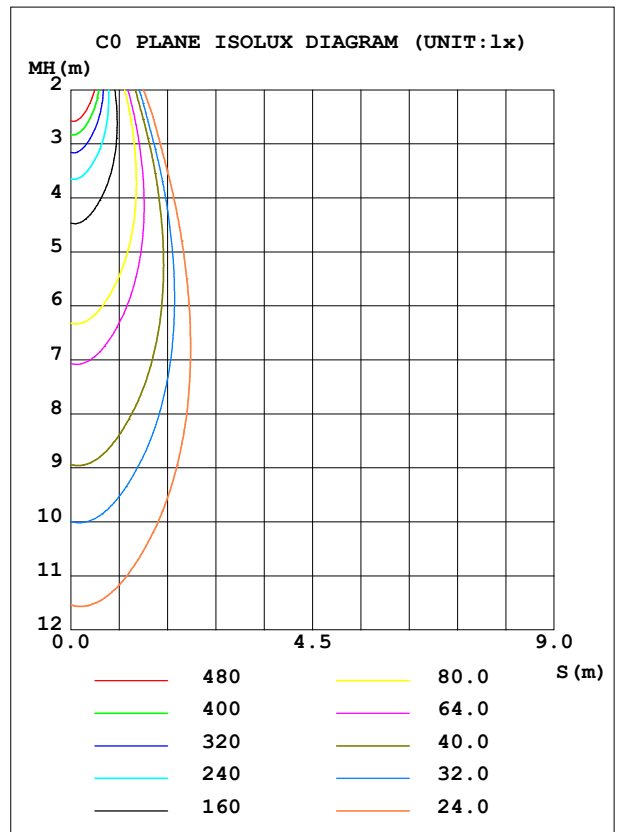
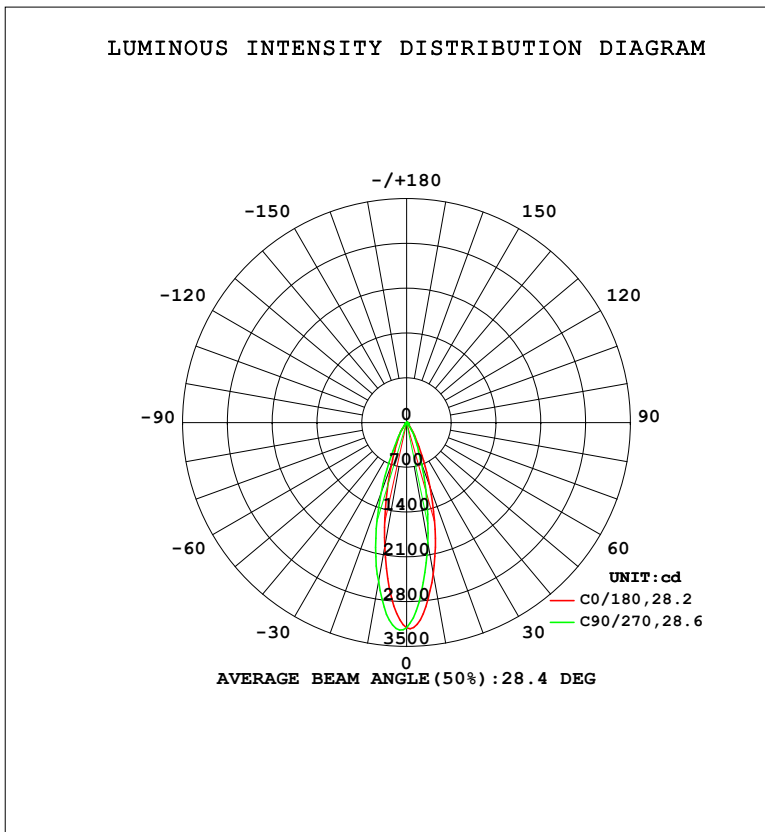


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	3313	S/MH (C0/180)	0.42
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.55
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1041.6	η UP, DN (C0-180)	0.0,46.3
NOMINAL FLUX (lm)	1041.64	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,53.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	0.50



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators:
 Test Date: 2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

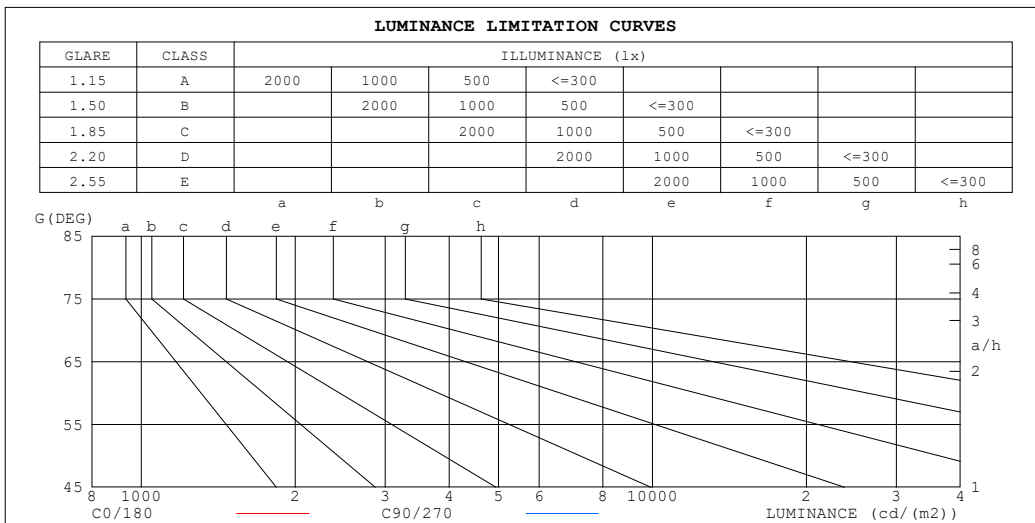
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2405	2144	1909	1859	1986	2236	2530	2585	0- 10	252.1	252.1	24.2,24.2
20	1072	856.6	691.3	658.5	700.7	883.3	1157	1185	10- 20	410.9	663.0	63.6,63.6
30	288.0	262.5	237.9	235.6	239.7	263.2	264.2	297.0	20- 30	227.6	890.6	85.5,85.5
40	57.63	51.67	45.68	43.59	47.13	51.81	57.74	60.41	30- 40	84.75	975.3	93.6,93.6
50	30.41	28.98	26.76	26.01	26.94	28.93	32.04	31.65	40- 50	29.22	1005	96.4,96.4
60	16.27	15.62	14.42	14.03	14.69	15.35	16.38	16.70	50- 60	19.26	1024	98.3,98.3
70	8.703	8.253	7.454	7.358	7.865	7.707	7.774	8.532	60- 70	11.16	1035	99.4,99.4
80	3.413	3.022	2.554	2.644	3.047	2.506	2.443	2.873	70- 80	5.624	1041	99.9,99.9
90	0.0560	0.0452	0.0552	0.0450	0.0370	0.0325	0.0413	0.0266	80- 90	1.075	1042	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	132	62
80	176	131
75	209	173
70	228	195
65	250	213
60	292	257
55	350	309
50	424	372
45	492	424

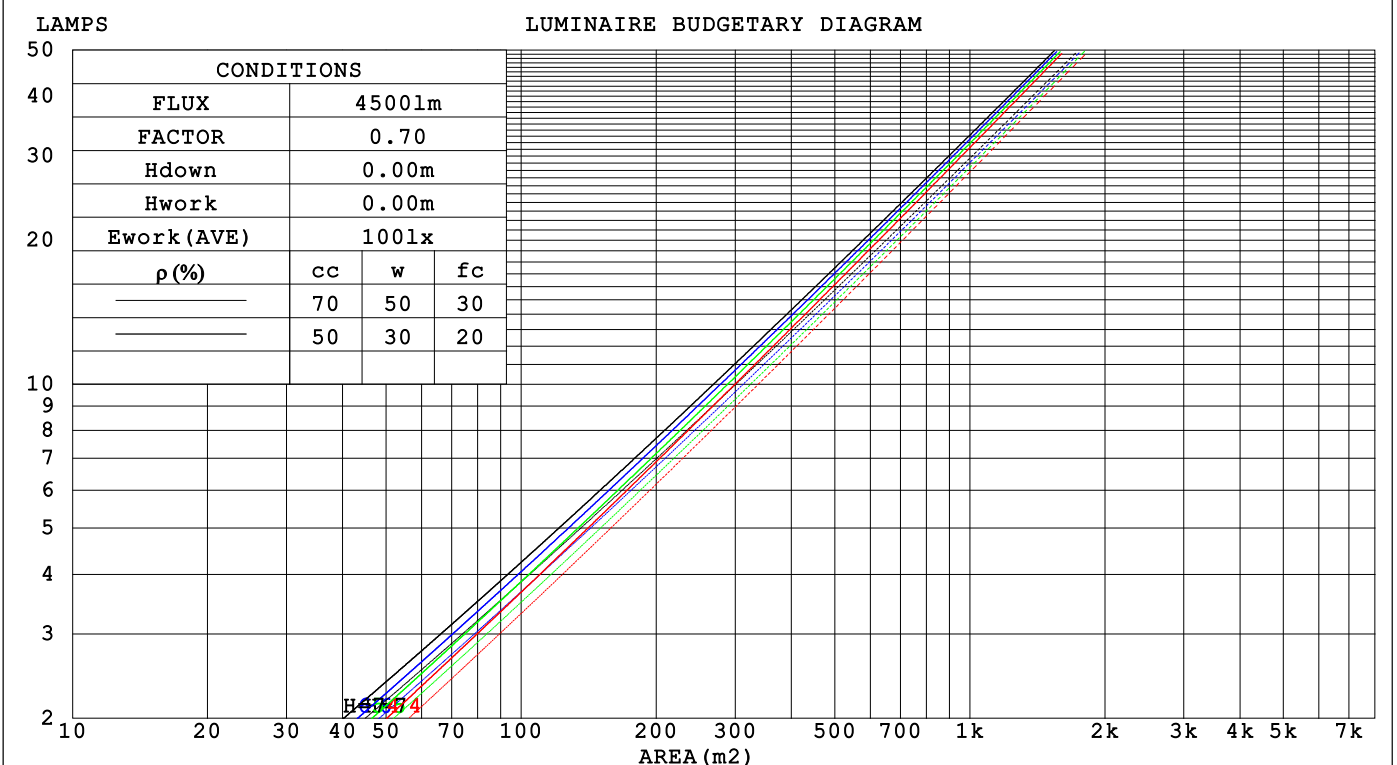
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

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	1.19	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	1.00
1.0	1.12	1.09	1.07	1.10	1.08	1.06	1.06	1.04	1.02	1.02	1.01	.99	.98	.97	.97	.95
2.0	1.05	1.02	.99	1.03	1.00	.98	1.00	.98	.95	.97	.95	.93	.95	.93	.91	.90
3.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.93	.90	.88	.91	.89	.87	.85
4.0	.94	.90	.86	.93	.89	.86	.91	.88	.85	.89	.86	.84	.88	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
6.0	.86	.81	.77	.85	.80	.77	.84	.80	.77	.82	.79	.76	.81	.78	.76	.74
7.0	.82	.77	.74	.82	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.72	.71
8.0	.79	.74	.71	.78	.74	.70	.77	.73	.70	.76	.73	.70	.76	.72	.70	.68
9.0	.76	.71	.68	.75	.71	.68	.75	.70	.67	.74	.70	.67	.73	.70	.67	.66
10.0	.73	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.71	.67	.65	.63



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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	.160	.091	.029	.154	.088	.028	.141	.081	.026	.130	.075	.024	.119	.069	.022	
2.0	.151	.082	.025	.145	.080	.025	.135	.075	.023	.125	.070	.022	.116	.066	.021	
3.0	.141	.075	.023	.137	.073	.022	.128	.069	.021	.120	.066	.020	.112	.062	.019	
4.0	.133	.069	.020	.129	.068	.020	.121	.064	.019	.115	.061	.019	.108	.059	.018	
5.0	.126	.064	.019	.122	.063	.018	.116	.060	.018	.110	.058	.017	.104	.056	.017	
6.0	.119	.060	.017	.116	.059	.017	.110	.057	.016	.105	.055	.016	.100	.053	.016	
7.0	.113	.056	.016	.110	.055	.016	.105	.053	.015	.101	.052	.015	.097	.050	.015	
8.0	.108	.053	.015	.105	.052	.015	.101	.050	.014	.097	.049	.014	.093	.048	.014	
9.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.093	.047	.013	.090	.046	.013	
10.0	.098	.047	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.087	.044	.013	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.118	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.095	.066	.046	.065	.047	.033	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.061	.042	.028	.036	.025	.017	.011	.008	.005	
8.0	.097	.062	.039	.083	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.091	.057	.034	.079	.049	.029	.055	.035	.021	.032	.020	.012	.010	.007	.004	
10.0	.086	.052	.029	.075	.045	.026	.052	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

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	3.8	4.5	4.0	4.7	4.9	3.5	4.3	3.8	4.5	4.6
3H	4.2	4.9	4.4	5.1	5.3	3.9	4.7	4.2	4.9	5.1
4H	4.4	5.1	4.7	5.3	5.5	4.1	4.8	4.4	5.0	5.2
6H	4.6	5.2	4.9	5.5	5.7	4.2	4.9	4.5	5.1	5.3
8H	4.6	5.2	4.9	5.5	5.7	4.2	4.8	4.5	5.1	5.3
12H	4.6	5.2	4.9	5.5	5.8	4.2	4.8	4.5	5.1	5.3
4H 2H	3.9	4.6	4.1	4.8	5.0	3.7	4.4	3.9	4.6	4.8
3H	4.5	5.1	4.8	5.3	5.6	4.2	4.8	4.5	5.1	5.4
4H	4.8	5.3	5.1	5.6	5.9	4.5	5.1	4.9	5.4	5.7
6H	5.0	5.5	5.4	5.8	6.2	4.7	5.2	5.0	5.5	5.8
8H	5.1	5.5	5.5	5.9	6.3	4.7	5.2	5.1	5.5	5.9
12H	5.1	5.5	5.5	5.9	6.3	4.7	5.1	5.1	5.5	5.8
8H 4H	4.8	5.3	5.2	5.6	6.0	4.6	5.0	5.0	5.4	5.7
6H	5.1	5.5	5.6	5.9	6.3	4.8	5.2	5.2	5.6	6.0
8H	5.2	5.6	5.7	6.0	6.4	4.9	5.2	5.3	5.6	6.1
12H	5.3	5.6	5.8	6.0	6.5	4.9	5.1	5.3	5.6	6.1
12H 4H	4.8	5.2	5.2	5.6	6.0	4.5	5.0	5.0	5.3	5.7
6H	5.1	5.5	5.6	5.9	6.3	4.8	5.1	5.2	5.6	6.0
8H	5.2	5.5	5.7	6.0	6.4	4.9	5.2	5.3	5.6	6.1

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 1.4 / - 0.9	+ 0.8 / - 0.9
1.5H	+ 2.3 / - 0.6	+ 1.3 / - 0.7
2.0H	+ 0.9 / - 0.8	+ 0.8 / - 1.0

CIE Pub.117, 1042 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)
 Area: 0.111111 m2

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 22.5DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Temperature:25.3°C	Humidity:65.0%
Operators:	Test Distance:3.090m [K=1.0000]
Test Date:2022-10-14	Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

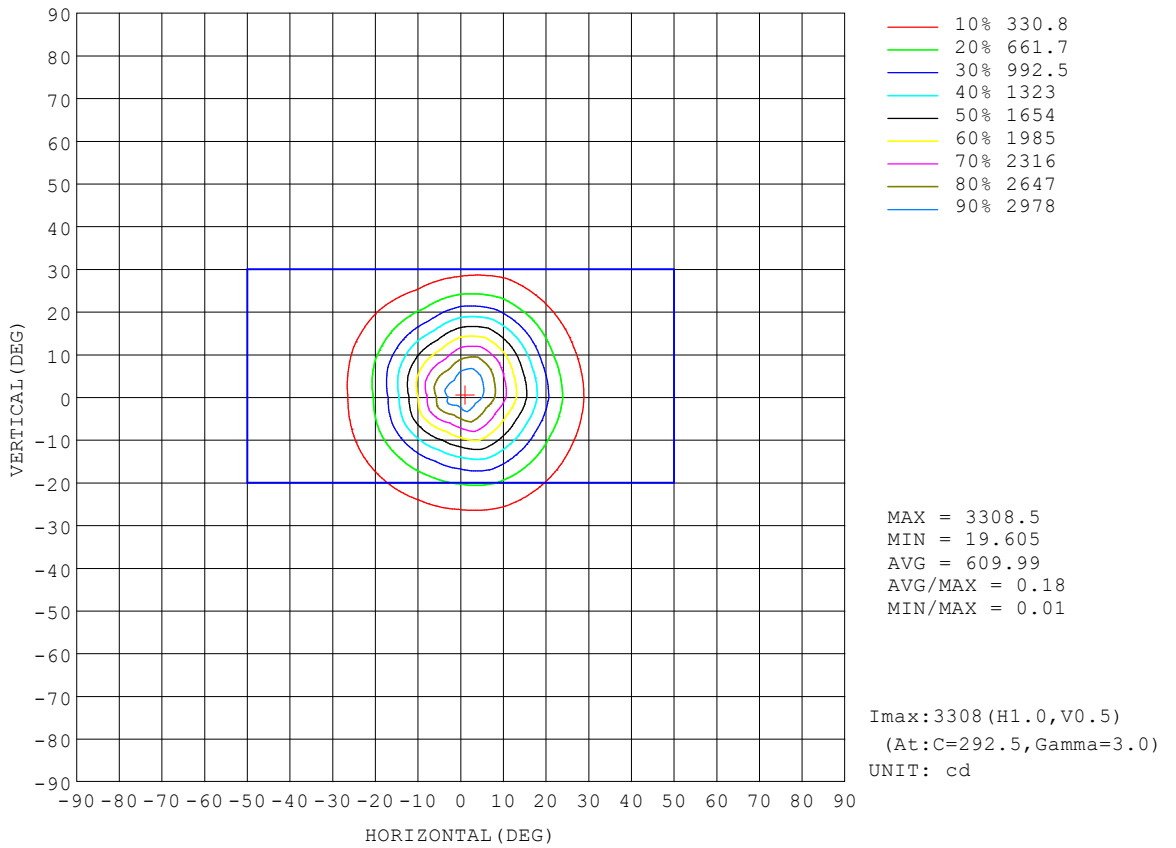
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
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:25.3°C
 Operators:
 Test Date:2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

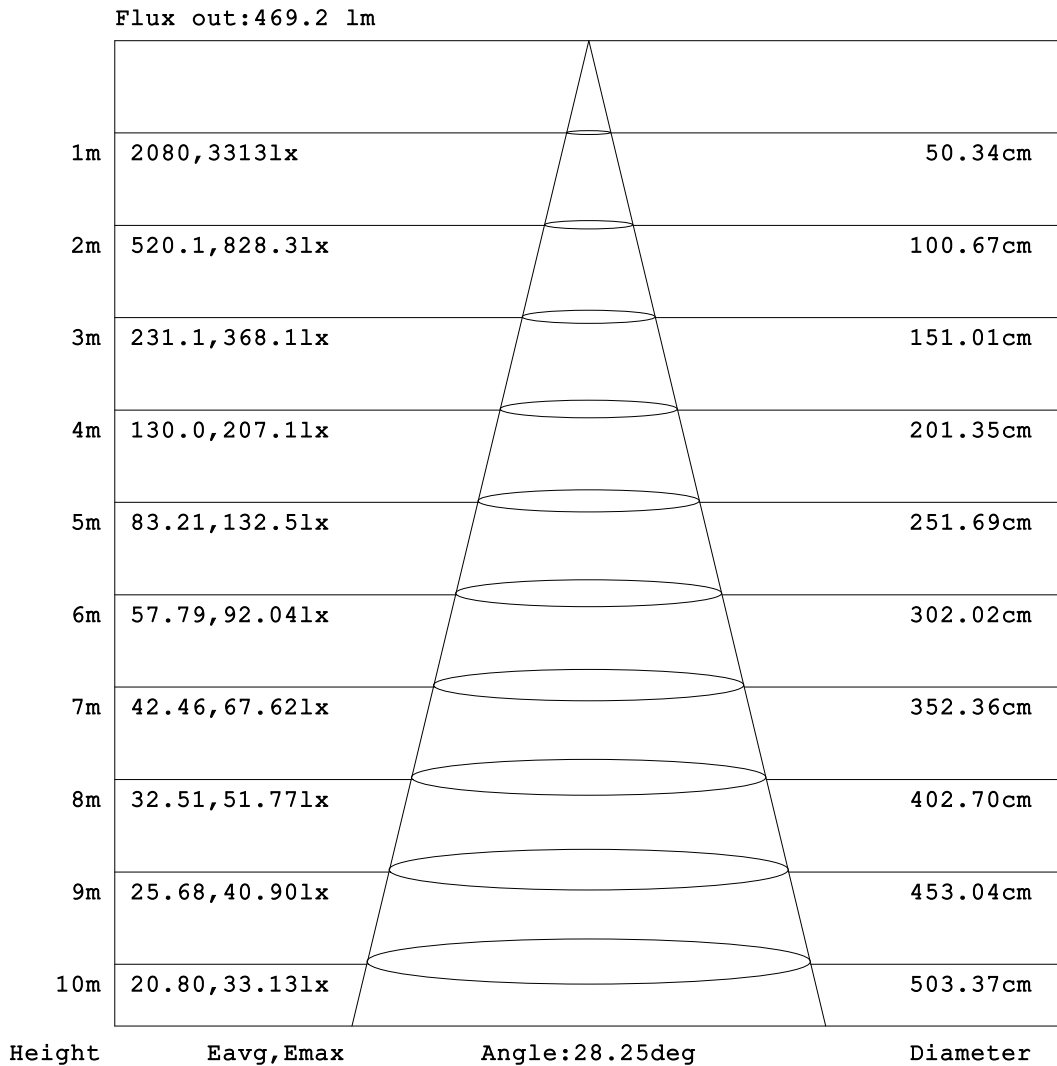


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:



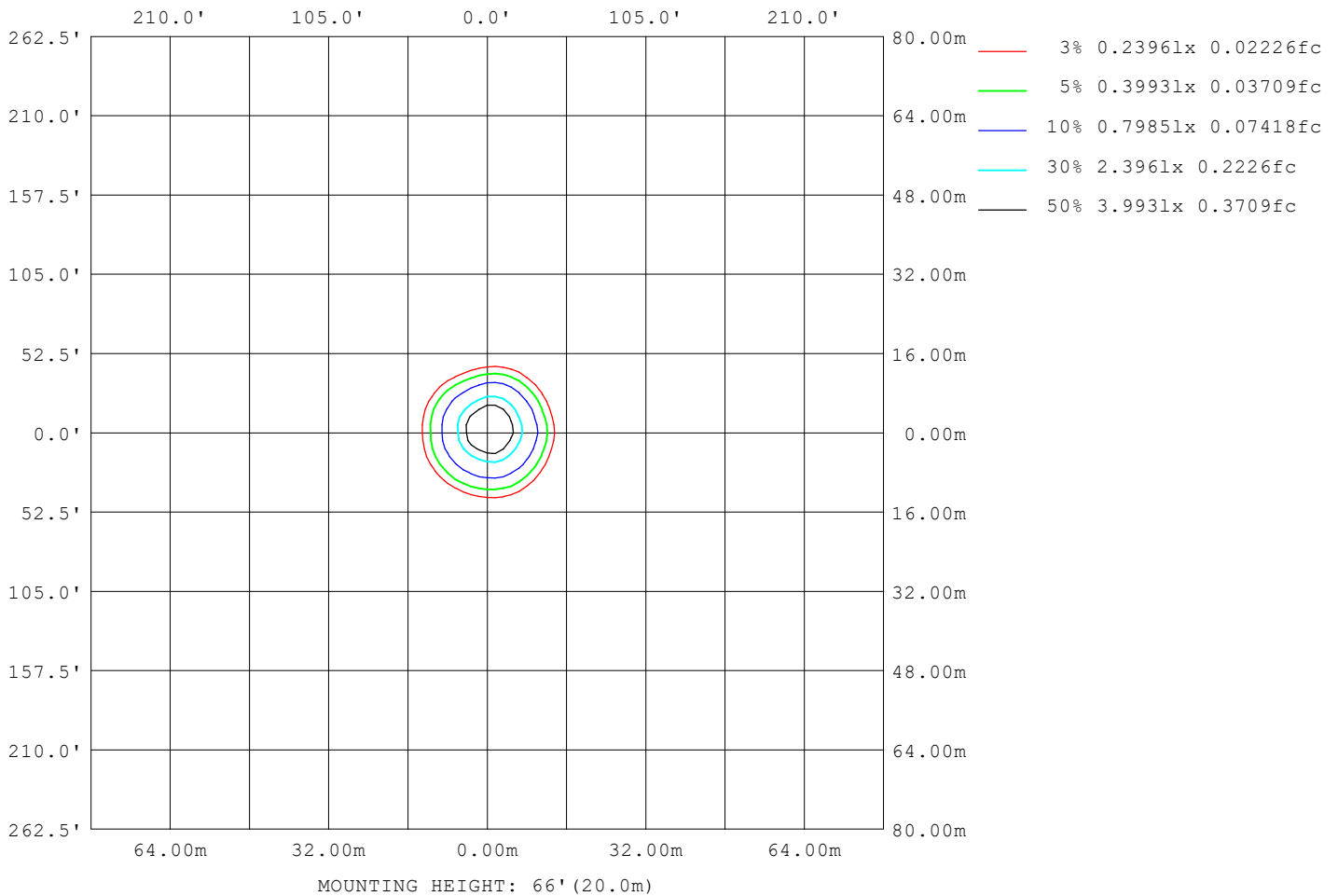
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

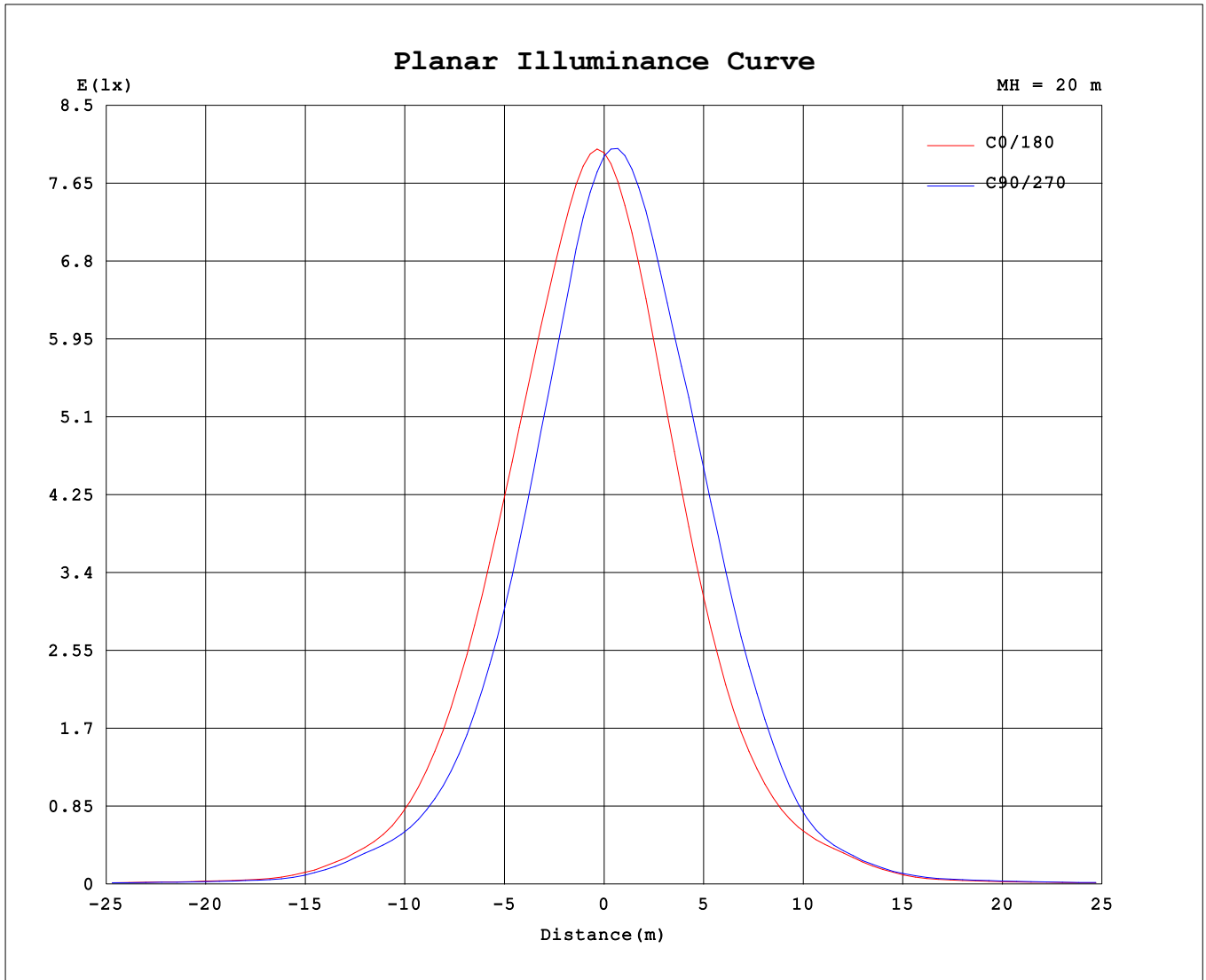
AvgL	cd/m2
L_0~180 (65) av	236
L_0~180 (75) av	200
L_0~180 (85) av	121
L_90~270 (65) av	229
L_90~270 (75) av	176
L_90~270 (85) av	54
L_45 (65) av	234
L_45 (75) av	186
L_45 (85) av	71

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators:
 Test Date: 2022-10-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.87V I:0.1200A P:13.989W PF:0.9727 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1041.64x1 lm		
NAME: ASD-CD-TR-MV-4D15AC-WH	TYPE:	WEIGHT:
SPEC.: 5000K 90	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	Shielding Angle:

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	3205	3205	3205	3205	3205	3205	3205	3205	3205	3205	3205	3205	3205	3205	3205	3205			
5	2997	2842	2825	2839	2663	2583	2637	2706	2749	2878	2900	2909	3102	3215	3124	2991			
10	2405	2189	2144	2142	1909	1804	1859	1947	1986	2168	2236	2272	2530	2700	2585	2403			
15	1727	1520	1437	1399	1207	1127	1166	1223	1248	1422	1521	1581	1869	2019	1897	1714			
20	1072	917	857	813	691	652	659	688	701	825	883	921	1157	1289	1185	1041			
25	573	497	462	438	383	366	369	377	385	436	458	449	579	669	615	543			
30	288	268	262	260	238	233	236	237	240	263	263	235	264	317	297	275			
35	145	130	138	139	118	105	111	120	120	139	133	109	131	161	154	138			
40	57.6	52.3	51.7	53.0	45.7	42.7	43.6	45.4	47.1	52.9	51.8	51.6	57.7	66.0	60.4	55.0			
45	38.8	37.1	36.5	36.8	33.6	32.6	32.8	33.1	34.2	36.9	37.1	37.8	41.4	42.8	40.1	37.5			
50	30.4	29.4	29.0	29.2	26.8	25.9	26.0	26.0	26.9	28.8	28.9	29.3	32.0	33.5	31.7	29.7			
55	22.4	21.1	21.5	22.1	19.9	18.9	19.2	19.5	20.1	21.4	21.1	20.4	23.0	25.0	23.4	21.7			
60	16.3	15.5	15.6	15.9	14.4	13.9	14.0	14.2	14.7	15.6	15.4	15.2	16.4	17.5	16.7	15.9			
65	11.8	11.0	11.2	11.1	10.1	9.80	9.85	10.1	10.4	11.1	10.8	10.5	11.4	12.3	12.2	11.5			
70	8.70	8.17	8.25	8.13	7.45	7.24	7.36	7.66	7.87	8.11	7.71	7.23	7.77	8.27	8.53	8.28			
75	6.03	5.77	5.69	5.54	5.03	4.88	5.00	5.30	5.50	5.52	5.07	4.73	5.11	5.54	5.63	5.69			
80	3.41	3.22	3.02	2.92	2.55	2.48	2.64	2.93	3.05	2.94	2.51	2.21	2.44	2.73	2.87	3.05			
85	1.28	1.03	0.83	0.80	0.61	0.59	0.73	0.99	1.06	0.89	0.53	0.36	0.44	0.55	0.67	0.91			
90	0.06	0.05	0.05	0.04	0.06	0.04	0.05	0.04	0.04	0.04	0.03	0.04	0.04	0.03	0.03	0.04			

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 C Interval: 22.5DEG
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