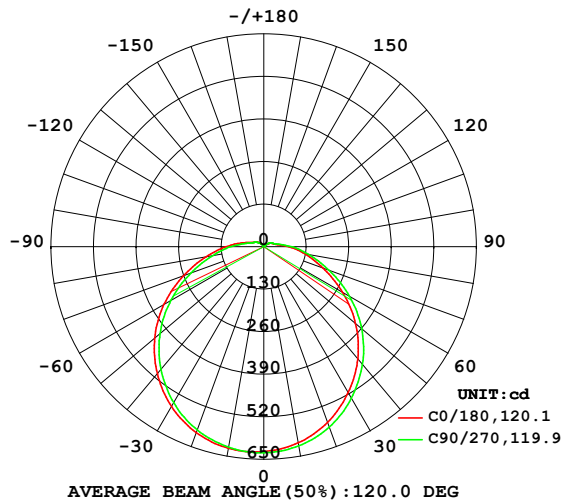


LUMINAIRE PHOTOMETRIC TEST REPORT

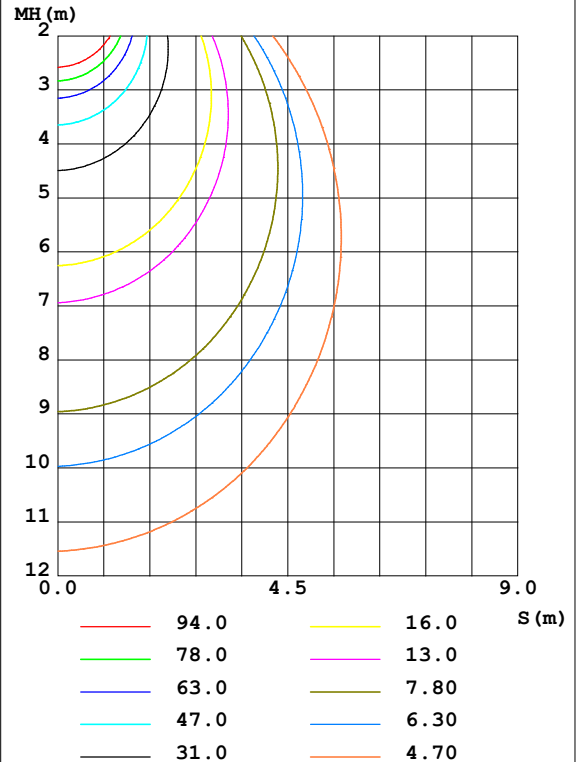
Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.68 lm/W			
MODEL	ASD-LFMDR-18D28CC-BZ	Imax(cd)	630.1	S/MH(C0/180)	1.34
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2258.5	η UP,DN(C0-180)	3.7,44.4
NOMINAL FLUX(lm)	2258.52	CIE CLASS	DIRECT	η UP,DN(C180-360)	4.5,47.4
LAMPS INSIDE	1	η up(%)	8.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	91.8	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

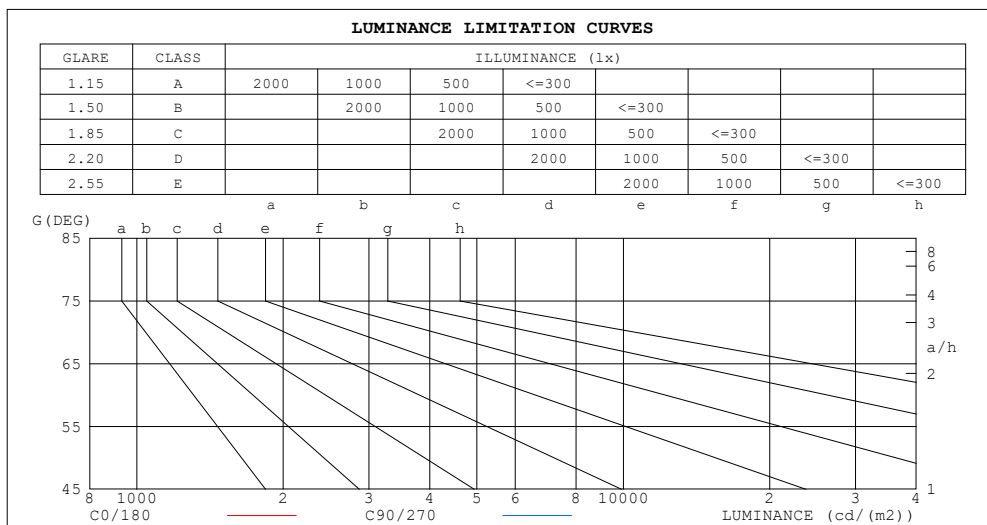
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	608.2	610.7	617.8	623.7	625.3	626.2	622.2	616.3	0- 10	59.54	59.54	2.64,2.64
20	571.4	573.9	586.3	597.5	604.5	605.3	596.0	585.2	10- 20	171.4	230.9	10.2,10.2
30	515.5	517.9	535.5	551.9	564.2	564.6	550.7	534.7	20- 30	262.0	492.9	21.8,21.8
40	447.5	449.3	469.4	489.9	506.3	506.7	489.3	468.7	30- 40	320.4	813.3	36,36
50	366.2	368.1	390.8	414.8	435.3	435.3	414.1	390.4	40- 50	340.9	1154	51.1,51.1
60	277.4	278.6	302.1	328.2	352.5	352.1	327.6	302.3	50- 60	321.3	1476	65.3,65.3
70	193.3	193.1	213.1	237.2	261.4	260.9	237.2	214.1	60- 70	267.5	1743	77.2,77.2
80	127.3	125.9	139.2	158.0	178.6	177.8	158.5	141.4	70- 80	197.4	1940	85.9,85.9
90	75.28	73.78	84.77	99.15	115.4	114.2	101.4	87.14	80- 90	131.9	2072	91.8,91.8
100	41.06	40.21	46.70	55.40	67.68	67.48	58.19	48.61	90-100	78.61	2151	95.2,95.2
110	29.96	28.98	30.83	33.14	39.16	39.68	36.55	33.05	100-110	44.44	2195	97.2,97.2
120	21.28	20.58	22.45	24.81	28.61	29.37	27.76	24.59	110-120	29.03	2224	98.5,98.5
130	12.43	11.89	13.77	16.18	19.74	20.55	18.78	15.55	120-130	18.45	2243	99.3,99.3
140	4.990	4.798	6.135	7.870	10.97	11.68	9.920	7.378	130-140	9.282	2252	99.7,99.7
150	3.457	3.393	3.428	3.434	4.187	4.590	3.820	3.693	140-150	3.419	2256	99.9,99.9
160	3.318	3.300	3.318	3.318	3.572	3.583	3.491	3.422	150-160	1.631	2257	99.9,99.9
170	3.520	3.526	3.508	3.514	3.642	3.642	3.618	3.578	160-170	0.9813	2258	100,100
180	3.670	3.659	3.578	3.560	3.664	3.659	3.572	3.555	170-180	0.3426	2259	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:9.200m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	143475	158708
80	91662	100230
75	76158	83811
70	70652	77877
65	69133	75923
60	69343	75535
55	70263	75715
50	71213	75991
45	72161	76295

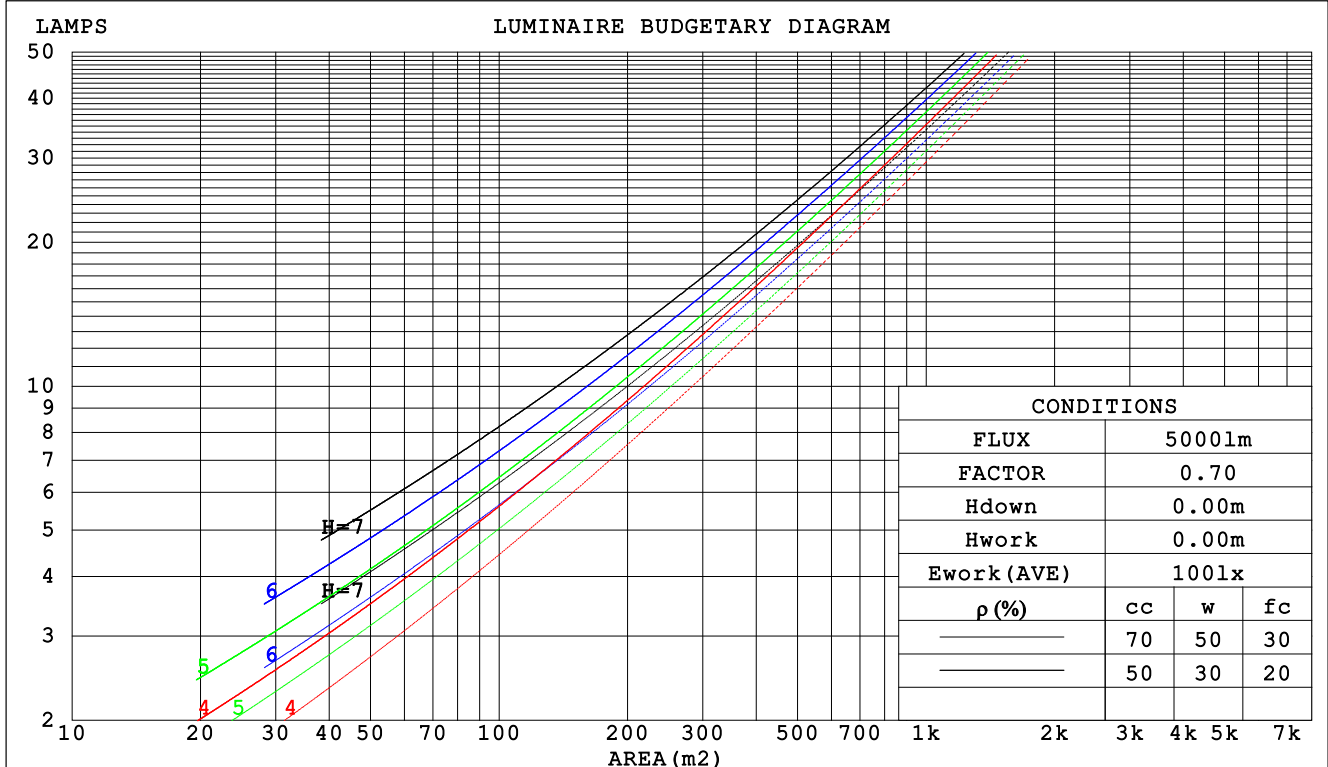
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

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	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.94	.94	.94	.92
1.0	.99	.94	.90	.96	.91	.87	.90	.86	.83	.85	.82	.79	.80	.77	.75	.72
2.0	.85	.78	.72	.83	.76	.70	.78	.72	.67	.73	.68	.64	.69	.65	.62	.59
3.0	.74	.66	.59	.72	.64	.58	.68	.61	.56	.64	.58	.53	.60	.56	.52	.49
4.0	.66	.56	.49	.64	.55	.48	.60	.53	.47	.57	.50	.45	.54	.48	.44	.41
5.0	.58	.49	.42	.57	.48	.41	.54	.46	.40	.51	.44	.39	.48	.42	.38	.35
6.0	.52	.43	.37	.51	.42	.36	.48	.41	.35	.46	.39	.34	.44	.38	.33	.31
7.0	.47	.38	.32	.46	.38	.32	.44	.36	.31	.42	.35	.30	.40	.34	.29	.27
8.0	.43	.34	.28	.42	.34	.28	.40	.33	.27	.38	.32	.27	.36	.31	.26	.24
9.0	.40	.31	.25	.39	.31	.25	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
10.0	.36	.28	.23	.36	.28	.23	.34	.27	.22	.33	.26	.22	.31	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm					
NAME: ASD-LFMDR-18D28CC-BZ			TYPE:		WEIGHT:
SPEC.:5000K			DIM.: 18inch		SERIAL No.:1
MFR.: ASD Lighting Corp			SUR.:		Shielding Angle:0

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	.362	.206	.065	.352	.201	.064	.334	.192	.061	.317	.183	.059	.302	.175	.056	
2.0	.321	.176	.054	.312	.172	.053	.296	.164	.051	.281	.157	.049	.267	.151	.048	
3.0	.289	.154	.046	.281	.150	.045	.266	.144	.044	.253	.138	.042	.240	.133	.041	
4.0	.262	.136	.040	.255	.133	.039	.242	.128	.038	.229	.123	.037	.218	.119	.036	
5.0	.239	.122	.035	.233	.120	.035	.221	.115	.034	.210	.111	.033	.200	.107	.032	
6.0	.220	.110	.032	.214	.108	.031	.204	.104	.030	.194	.101	.030	.184	.097	.029	
7.0	.204	.101	.029	.199	.099	.028	.189	.095	.027	.180	.092	.027	.171	.089	.026	
8.0	.189	.092	.026	.185	.091	.026	.176	.088	.025	.168	.085	.024	.160	.082	.024	
9.0	.177	.086	.024	.173	.084	.024	.165	.081	.023	.157	.079	.023	.150	.076	.022	
10.0	.166	.079	.022	.162	.078	.022	.155	.076	.021	.148	.073	.021	.141	.071	.020	

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	.253	.253	.253	.216	.216	.216	.148	.148	.148	.085	.085	.085	.027	.027	.027	
1.0	.247	.219	.194	.212	.188	.167	.145	.129	.115	.083	.075	.067	.027	.024	.022	
2.0	.240	.196	.158	.205	.168	.137	.141	.116	.095	.081	.068	.056	.026	.022	.018	
3.0	.232	.179	.136	.199	.154	.118	.137	.107	.083	.079	.062	.049	.025	.020	.016	
4.0	.224	.166	.121	.192	.143	.105	.132	.100	.074	.077	.058	.044	.025	.019	.014	
5.0	.217	.156	.110	.186	.135	.096	.128	.094	.068	.074	.055	.040	.024	.018	.013	
6.0	.209	.147	.103	.180	.128	.090	.124	.089	.063	.072	.053	.038	.023	.017	.012	
7.0	.202	.141	.098	.174	.122	.085	.120	.085	.060	.070	.050	.036	.023	.016	.012	
8.0	.196	.135	.093	.168	.117	.081	.116	.082	.058	.068	.048	.034	.022	.016	.011	
9.0	.189	.130	.090	.163	.113	.079	.113	.079	.056	.066	.047	.033	.021	.015	.011	
10.0	.183	.126	.087	.158	.109	.076	.110	.077	.054	.064	.045	.032	.021	.015	.011	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm										
NAME: ASD-LFMDR-18D28CC-BZ					TYPE:			WEIGHT:		
SPEC.:5000K					DIM.: 18inch			SERIAL No.:1		
MFR.: ASD Lighting Corp					SUR.:			Shielding Angle:0		
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	23.8	25.3	24.2	25.6	26.0	24.2	25.7	24.6	26.0	26.4
3H	25.6	26.9	26.0	27.3	27.7	26.0	27.4	26.5	27.8	28.2
4H	26.4	27.7	26.9	28.1	28.6	27.0	28.3	27.4	28.7	29.1
6H	27.4	28.6	27.8	29.0	29.5	27.9	29.1	28.4	29.6	30.0
8H	27.9	29.1	28.3	29.5	30.0	28.4	29.6	28.9	30.0	30.5
12H	28.4	29.6	28.9	30.0	30.5	29.0	30.1	29.5	30.6	31.1
4H 2H	24.5	25.8	24.9	26.2	26.6	24.8	26.1	25.2	26.5	26.9
3H	26.4	27.6	26.9	28.0	28.5	26.8	27.9	27.3	28.4	28.9
4H	27.4	28.5	27.9	29.0	29.5	27.9	28.9	28.4	29.4	29.9
6H	28.6	29.5	29.1	30.0	30.5	29.0	30.0	29.6	30.5	31.0
8H	29.2	30.0	29.7	30.6	31.1	29.7	30.5	30.2	31.0	31.6
12H	29.9	30.7	30.4	31.2	31.8	30.4	31.2	30.9	31.7	32.3
8H 4H	27.9	28.7	28.4	29.3	29.8	28.2	29.1	28.8	29.6	30.2
6H	29.2	30.0	29.8	30.5	31.1	29.6	30.4	30.2	30.9	31.5
8H	30.0	30.7	30.6	31.2	31.9	30.4	31.1	31.0	31.7	32.3
12H	30.9	31.5	31.5	32.1	32.7	31.4	31.9	32.0	32.5	33.2
12H 4H	28.0	28.8	28.5	29.3	29.9	28.3	29.1	28.9	29.6	30.2
6H	29.4	30.1	30.0	30.6	31.3	29.8	30.5	30.4	31.0	31.6
8H	30.3	30.9	30.9	31.4	32.1	30.7	31.3	31.3	31.8	32.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 2259 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.8)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

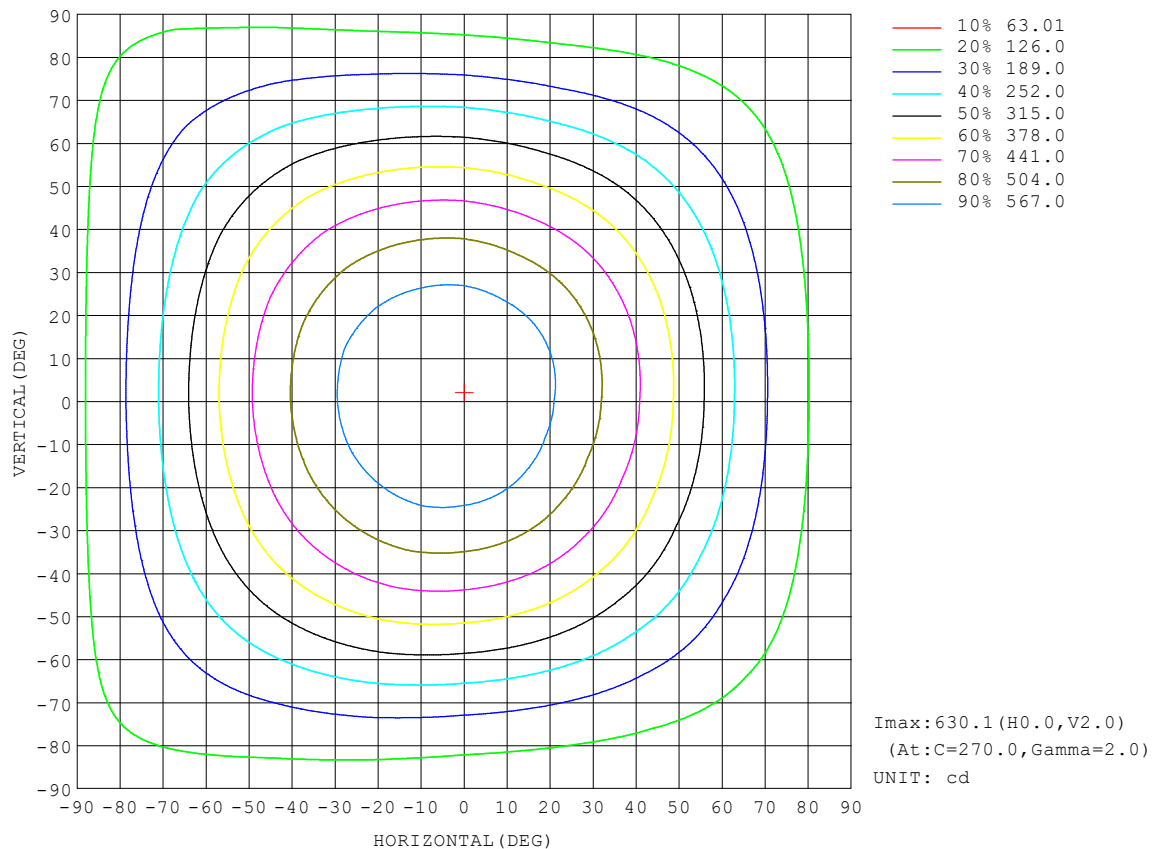
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	51	40	33	50	39	33	26
0.80	62	49	42	61	49	41	58	48	41	33
1.00	70	58	50	68	57	49	65	58	48	41
1.25	77	65	57	75	64	56	72	62	55	47
1.50	82	71	63	80	69	62	76	67	60	51
2.00	89	79	71	87	77	70	82	74	68	59
2.50	93	84	77	90	82	75	86	79	73	63
3.00	97	88	82	94	86	80	89	82	77	66
4.00	101	94	88	98	92	86	92	87	83	71
5.00	104	98	92	101	95	90	95	90	86	74
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:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

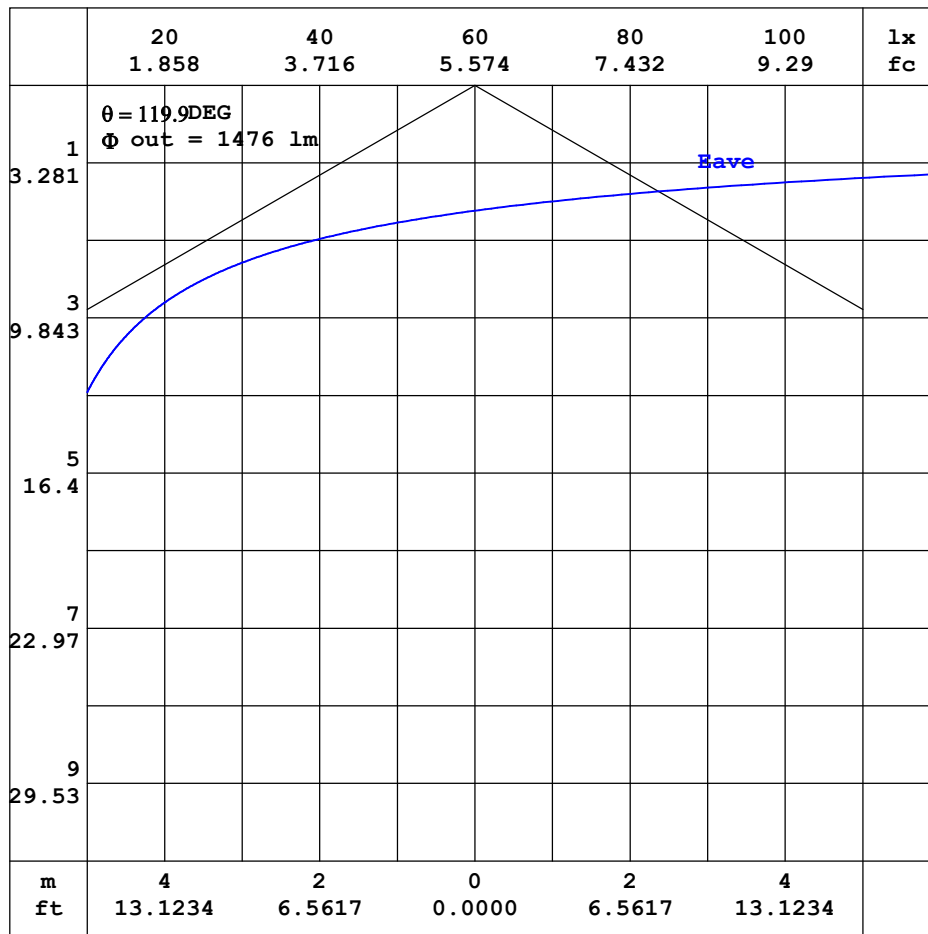


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

AAI CURVES

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



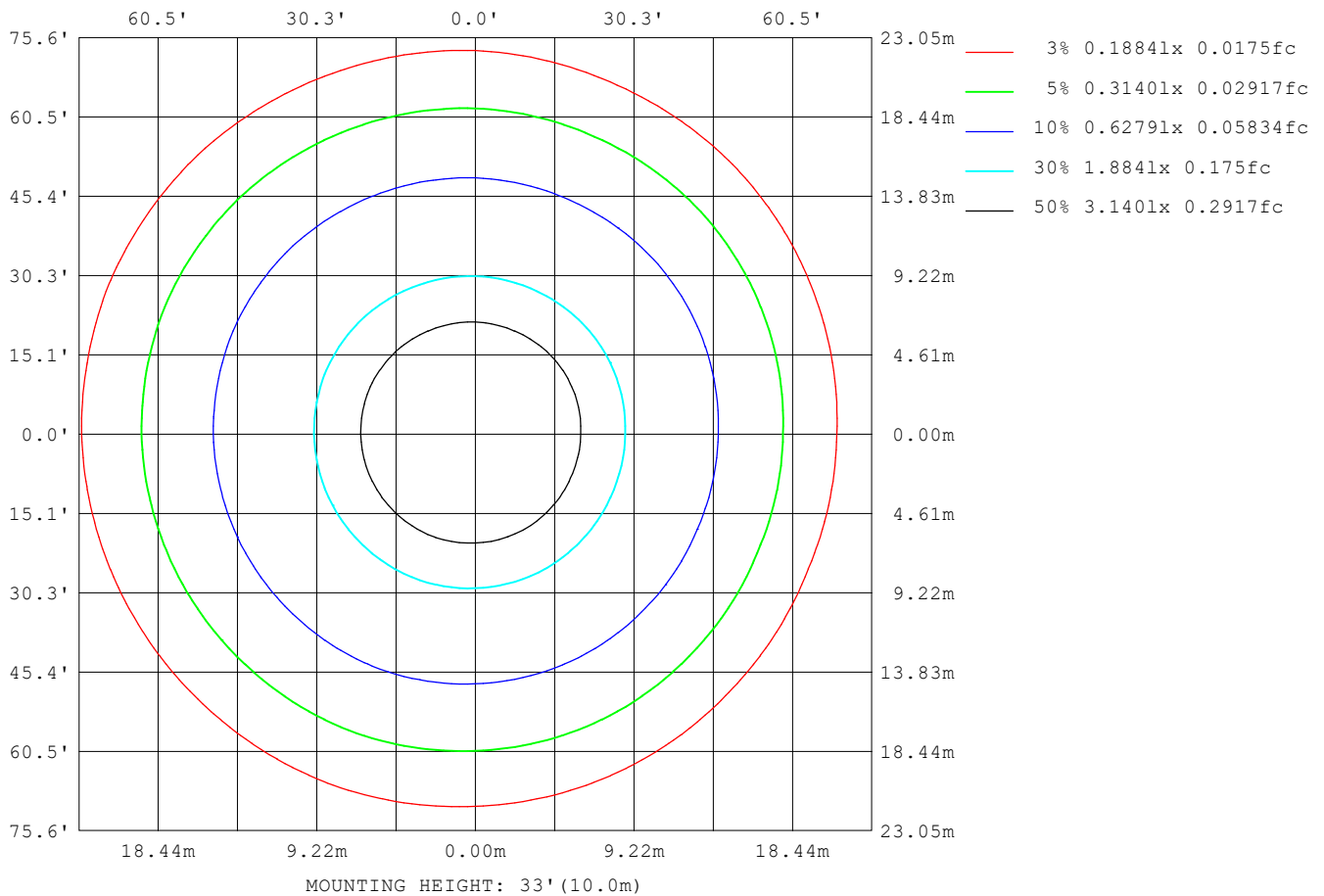
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 9.200m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

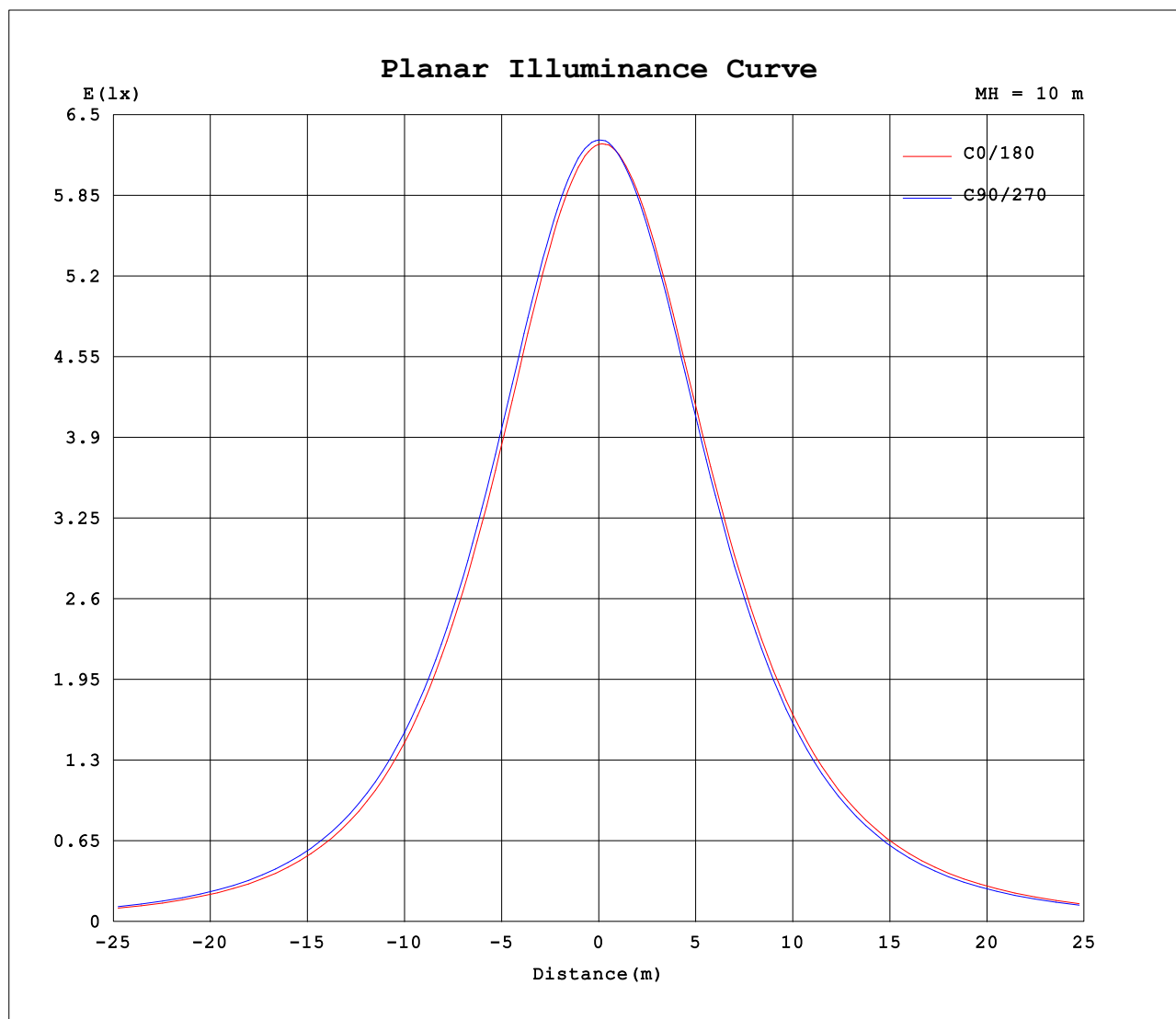
AvgL	cd/m2
L_0~180 (65) av	79916
L_0~180 (75) av	90720
L_0~180 (85) av	175166
L_90~270 (65) av	79690
L_90~270 (75) av	89105
L_90~270 (85) av	170469
L_45 (65) av	79867
L_45 (75) av	89881
L_45 (85) av	172304

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 9.200m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.94V I:0.2557A P:27.652W PF:0.9016 Freq:59.98Hz Lamp Flux:2258.52x1 lm		
NAME: ASD-LFMDR-18D28CC-BZ	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

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	626	627	628	629	630	630	629	628	626	627	628	629	630	630	629	628			
5	619	620	622	625	626	628	629	629	628	629	630	629	629	627	625	623			
10	608	608	611	615	618	621	624	625	625	627	626	624	622	619	616	613			
15	592	591	595	601	604	610	613	616	618	619	618	614	611	606	603	599			
20	571	570	574	581	586	593	598	603	605	607	605	601	596	589	585	579			
25	545	543	548	556	563	572	577	583	587	590	587	581	576	568	562	555			
30	515	513	518	527	536	546	552	559	564	568	565	557	551	541	535	526			
35	483	480	486	495	504	515	522	531	537	541	538	529	521	510	503	494			
40	447	444	449	460	469	482	490	499	506	511	507	498	489	477	469	459			
45	408	404	410	422	432	445	454	464	473	477	473	463	453	440	431	420			
50	366	362	368	380	391	405	415	426	435	440	435	424	414	400	390	379			
55	322	317	324	336	347	362	372	385	395	400	395	383	372	357	347	335			
60	277	273	279	290	302	318	328	341	353	356	352	339	328	312	302	289			
65	234	229	234	246	257	272	282	295	307	312	306	293	282	266	257	245			
70	193	189	193	203	213	227	237	249	261	266	261	248	237	222	214	203			
75	158	153	157	165	174	186	195	207	218	223	217	205	195	183	175	166			
80	127	123	126	132	139	150	158	168	179	183	178	167	158	148	141	134			
85	100	96.9	98.5	105	111	120	126	135	144	148	143	134	127	118	113	106			
90	75.3	72.8	73.8	79.0	84.8	93.8	99.1	107	115	119	114	107	101	93.2	87.1	80.6			
95	55.2	53.0	54.1	58.1	62.8	70.0	74.6	82.1	90.6	94.0	89.9	82.8	77.4	70.1	65.0	59.8			
100	41.1	39.5	40.2	43.3	46.7	51.9	55.4	61.0	67.7	70.4	67.5	62.2	58.2	52.6	48.6	44.2			
105	33.9	33.0	32.9	34.0	36.0	39.2	41.7	45.7	50.8	52.9	51.1	47.6	44.9	40.9	37.9	35.5			
110	30.0	29.0	29.0	29.7	30.8	32.1	33.1	35.4	39.2	40.6	39.7	37.7	36.5	34.5	33.1	31.4			
115	25.7	24.7	24.9	25.6	26.7	28.0	29.0	30.3	32.8	33.7	33.4	32.7	32.1	30.4	28.9	27.2			
120	21.3	20.3	20.6	21.3	22.5	23.8	24.8	26.2	28.6	29.6	29.4	28.5	27.8	26.0	24.6	22.8			
125	16.8	15.8	16.2	17.0	18.1	19.4	20.5	21.8	24.2	25.2	25.0	24.1	23.3	21.5	20.1	18.4			
130	12.4	11.5	11.9	12.9	13.8	15.1	16.2	17.4	19.7	20.7	20.5	19.6	18.8	16.9	15.5	14.0			
135	8.38	7.52	7.97	8.91	9.66	10.9	11.8	13.1	15.3	16.2	16.1	15.2	14.2	12.5	11.2	9.82			
140	4.99	4.42	4.80	5.53	6.13	7.08	7.87	9.03	11.0	11.8	11.7	10.8	9.92	8.45	7.38	6.12			
145	3.60	3.69	3.54	3.56	3.71	4.12	4.64	5.49	7.11	7.77	7.77	7.03	6.21	5.06	4.46	3.85			
150	3.46	3.56	3.39	3.45	3.43	3.43	3.43	3.49	4.19	4.58	4.59	4.15	3.82	3.76	3.69	3.67			
155	3.35	3.51	3.31	3.40	3.33	3.34	3.34	3.39	3.66	3.69	3.68	3.69	3.61	3.56	3.53	3.55			
160	3.32	3.43	3.30	3.32	3.32	3.32	3.32	3.34	3.57	3.57	3.58	3.60	3.49	3.46	3.42	3.40			
165	3.41	3.40	3.40	3.40	3.39	3.39	3.39	3.40	3.56	3.57	3.55	3.53	3.51	3.49	3.47	3.45			
170	3.52	3.53	3.53	3.51	3.51	3.49	3.51	3.51	3.64	3.68	3.64	3.62	3.62	3.60	3.58	3.57			
175	3.57	3.56	3.54	3.54	3.55	3.55	3.56	3.57	3.68	3.68	3.69	3.65	3.64	3.62	3.59	3.57			
180	3.67	3.67	3.66	3.62	3.58	3.56	3.56	3.57	3.66	3.68	3.66	3.62	3.57	3.57	3.55	3.58			

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C Interval: 22.5DEG
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