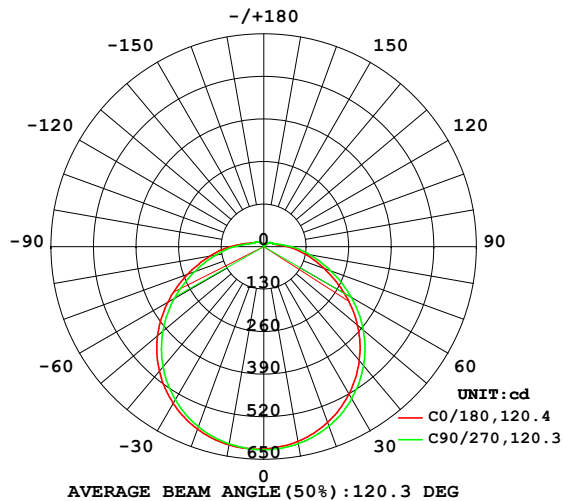


LUMINAIRE PHOTOMETRIC TEST REPORT

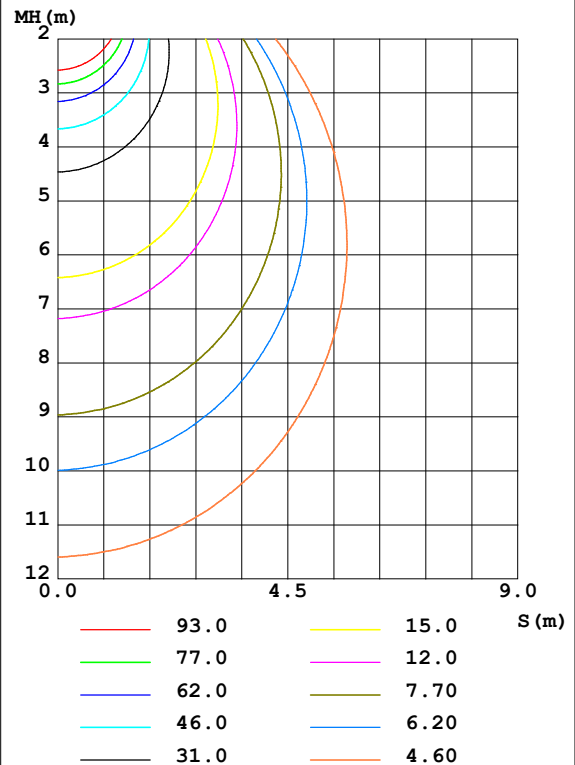
Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME: ASD-LFMDR-MV-18D28CC-NK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.05 lm/W			
MODEL	ASD-LFMDR-MV-18D28C-NK	I _{max} (cd)	620.7	S/MH (C0/180)	1.33
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2236.6	η UP, DN (C0-180)	3.9, 44.7
NOMINAL FLUX (lm)	2236.56	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.5, 46.8
LAMPS INSIDE	1	η up (%)	8.5	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	120	η down (%)	91.5	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: 9.500m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

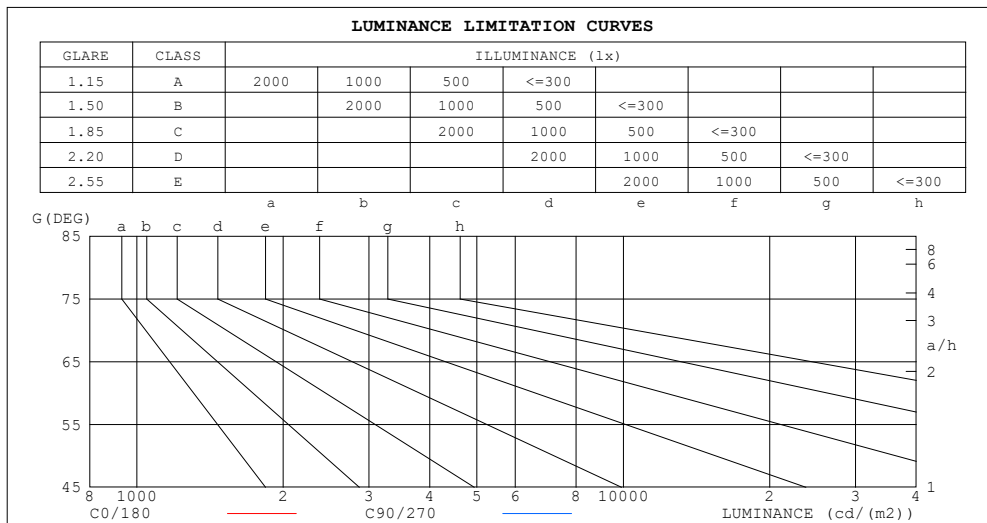
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	604.0	604.8	611.1	613.4	614.7	616.2	611.8	608.1	0- 10	58.71	58.71	2.62,2.62
20	571.3	572.5	583.3	588.5	593.4	594.5	585.4	579.8	10- 20	169.3	228.0	10.2,10.2
30	520.3	520.9	536.9	545.1	553.5	554.6	540.5	532.3	20- 30	259.6	487.6	21.8,21.8
40	454.1	453.7	474.5	484.9	496.6	497.6	479.5	469.3	30- 40	318.6	806.2	36,36
50	373.8	372.9	396.9	409.8	423.9	425.1	403.1	391.1	40- 50	339.2	1145	51.2,51.2
60	283.8	282.7	308.4	323.0	338.4	339.6	315.1	302.2	50- 60	318.8	1464	65.5,65.5
70	196.6	195.0	218.4	232.5	247.9	248.7	225.4	213.8	60- 70	263.7	1728	77.3,77.3
80	126.4	124.8	142.5	154.6	166.8	167.5	148.8	140.3	70- 80	193.1	1921	85.9,85.9
90	72.68	71.45	83.61	92.88	102.6	103.8	89.41	83.16	80- 90	126.2	2047	91.5,91.5
100	40.45	39.61	45.64	50.58	56.41	57.47	50.05	46.50	90-100	72.00	2119	94.8,94.8
110	29.80	29.01	29.95	31.98	34.25	35.58	33.65	33.07	100-110	40.68	2160	96.6,96.6
120	24.89	23.89	25.15	26.90	28.90	29.83	28.76	28.13	110-120	29.44	2189	97.9,97.9
130	18.87	17.79	19.31	20.85	22.90	23.63	22.54	21.79	120-130	21.67	2211	98.9,98.9
140	12.25	11.38	12.83	13.93	15.81	16.40	15.29	14.64	130-140	13.65	2225	99.5,99.5
150	7.892	7.220	7.818	8.348	9.259	9.535	9.043	8.765	140-150	6.956	2232	99.8,99.8
160	5.216	4.802	5.136	5.315	6.000	6.129	5.698	5.575	150-160	3.216	2235	99.9,99.9
170	4.259	4.198	4.234	4.272	4.615	4.628	4.486	4.431	160-170	1.374	2236	100,100
180	3.938	3.864	3.605	3.599	3.944	3.870	3.612	3.605	170-180	0.3986	2237	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:9.500m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME: ASD-LFMDR-MV-18D28CC-NK	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	140039	159414
80	90973	102583
75	76901	86111
70	71850	79821
65	70519	77660
60	70955	77090
55	71795	77084
50	72689	77175
45	73512	77319

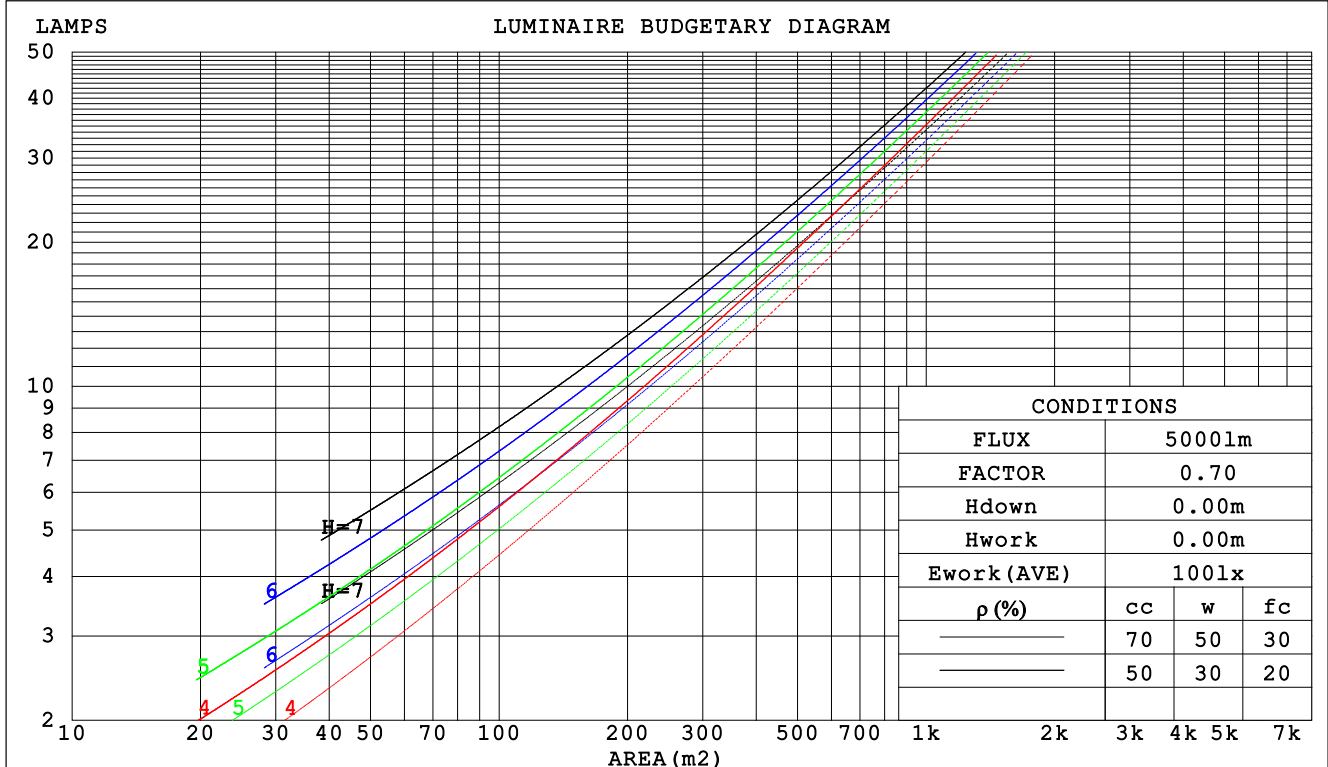
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME: ASD-LFMDR-MV-18D28CC-NK	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	1.06	1.06	1.06	1.00	1.00	1.00	.94	.94	.94	.92
1.0	.99	.94	.90	.96	.92	.87	.90	.87	.83	.85	.82	.79	.80	.77	.75	.72
2.0	.86	.78	.72	.83	.76	.70	.78	.72	.67	.73	.69	.64	.69	.65	.62	.59
3.0	.75	.66	.59	.72	.64	.58	.68	.61	.56	.64	.58	.54	.60	.56	.52	.49
4.0	.66	.56	.49	.64	.55	.49	.60	.53	.47	.57	.50	.45	.54	.48	.44	.41
5.0	.58	.49	.42	.57	.48	.42	.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	.35	.29	.42	.34	.28	.40	.33	.27	.38	.32	.27	.36	.31	.26	.24
9.0	.40	.31	.26	.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:9.500m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm					
NAME: ASD-LFMDR-MV-18D28CC-NK			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	.359	.204	.065	.350	.199	.063	.331	.190	.061	.314	.181	.058	.299	.173	.056		
2.0	.319	.175	.054	.311	.171	.053	.294	.164	.051	.279	.157	.049	.265	.150	.047		
3.0	.288	.153	.046	.280	.150	.045	.265	.144	.044	.251	.138	.042	.239	.132	.041		
4.0	.261	.136	.040	.254	.133	.039	.241	.128	.038	.229	.123	.037	.217	.118	.036		
5.0	.239	.122	.035	.232	.119	.035	.221	.115	.034	.209	.111	.033	.199	.106	.032		
6.0	.220	.110	.032	.214	.108	.031	.203	.104	.030	.193	.100	.030	.184	.097	.029		
7.0	.203	.101	.028	.198	.099	.028	.188	.095	.027	.179	.092	.027	.171	.089	.026		
8.0	.189	.092	.026	.184	.091	.026	.176	.088	.025	.167	.085	.024	.159	.082	.024		
9.0	.177	.085	.024	.172	.084	.024	.164	.081	.023	.157	.079	.022	.149	.076	.022		
10.0	.166	.079	.022	.162	.078	.022	.154	.076	.021	.147	.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	.255	.255	.255	.218	.218	.218	.149	.149	.149	.085	.085	.085	.027	.027	.027	
1.0	.249	.221	.196	.213	.189	.168	.146	.130	.116	.084	.075	.068	.027	.024	.022	
2.0	.241	.197	.160	.207	.170	.138	.142	.117	.097	.082	.068	.057	.026	.022	.018	
3.0	.234	.180	.138	.200	.155	.119	.138	.108	.084	.079	.063	.049	.026	.020	.016	
4.0	.226	.167	.123	.194	.145	.107	.133	.101	.075	.077	.059	.044	.025	.019	.015	
5.0	.218	.157	.112	.187	.136	.098	.129	.095	.069	.075	.056	.041	.024	.018	.013	
6.0	.211	.149	.105	.181	.129	.091	.125	.090	.065	.073	.053	.038	.023	.017	.013	
7.0	.204	.142	.099	.175	.123	.087	.121	.087	.061	.070	.051	.037	.023	.017	.012	
8.0	.197	.137	.095	.170	.119	.083	.117	.083	.059	.068	.049	.035	.022	.016	.012	
9.0	.191	.132	.092	.165	.114	.080	.114	.080	.057	.066	.047	.034	.022	.016	.011	
10.0	.185	.128	.089	.160	.111	.078	.111	.078	.055	.065	.046	.033	.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:9.500m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm										
NAME:ASD-LFMDR-MV-18D28CC-NK					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	24.0	25.5	24.4	25.8	26.2	24.4	25.8	24.8	26.2	26.6
3H	25.7	27.1	26.2	27.5	27.9	26.2	27.6	26.6	28.0	28.4
4H	26.6	27.9	27.1	28.3	28.8	27.1	28.4	27.6	28.8	29.3
6H	27.5	28.7	28.0	29.2	29.6	28.1	29.3	28.6	29.7	30.2
8H	28.0	29.2	28.5	29.6	30.1	28.6	29.8	29.1	30.2	30.7
12H	28.5	29.7	29.0	30.1	30.6	29.2	30.3	29.7	30.8	31.2
4H 2H	24.6	25.9	25.1	26.3	26.8	24.9	26.2	25.4	26.6	27.1
3H	26.6	27.7	27.1	28.2	28.7	27.0	28.1	27.5	28.6	29.0
4H	27.6	28.6	28.1	29.1	29.6	28.1	29.1	28.6	29.6	30.1
6H	28.7	29.6	29.2	30.1	30.7	29.2	30.1	29.7	30.6	31.2
8H	29.3	30.1	29.8	30.6	31.2	29.8	30.7	30.4	31.2	31.8
12H	29.9	30.7	30.5	31.2	31.8	30.5	31.3	31.1	31.9	32.4
8H 4H	28.0	28.9	28.6	29.4	30.0	28.4	29.3	28.9	29.8	30.4
6H	29.3	30.1	29.9	30.6	31.2	29.8	30.5	30.4	31.1	31.7
8H	30.1	30.7	30.7	31.3	31.9	30.6	31.2	31.2	31.8	32.4
12H	30.9	31.5	31.5	32.1	32.7	31.5	32.1	32.1	32.6	33.3
12H 4H	28.1	28.9	28.7	29.4	30.0	28.5	29.3	29.0	29.8	30.4
6H	29.5	30.2	30.1	30.7	31.4	29.9	30.6	30.5	31.2	31.8
8H	30.3	30.9	30.9	31.5	32.2	30.8	31.4	31.4	32.0	32.6
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					+ 0.1 / - 0.3				

CIE Pub.117, 2237 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:9.500m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME: ASD-LFMDR-MV-18D28CC-NK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

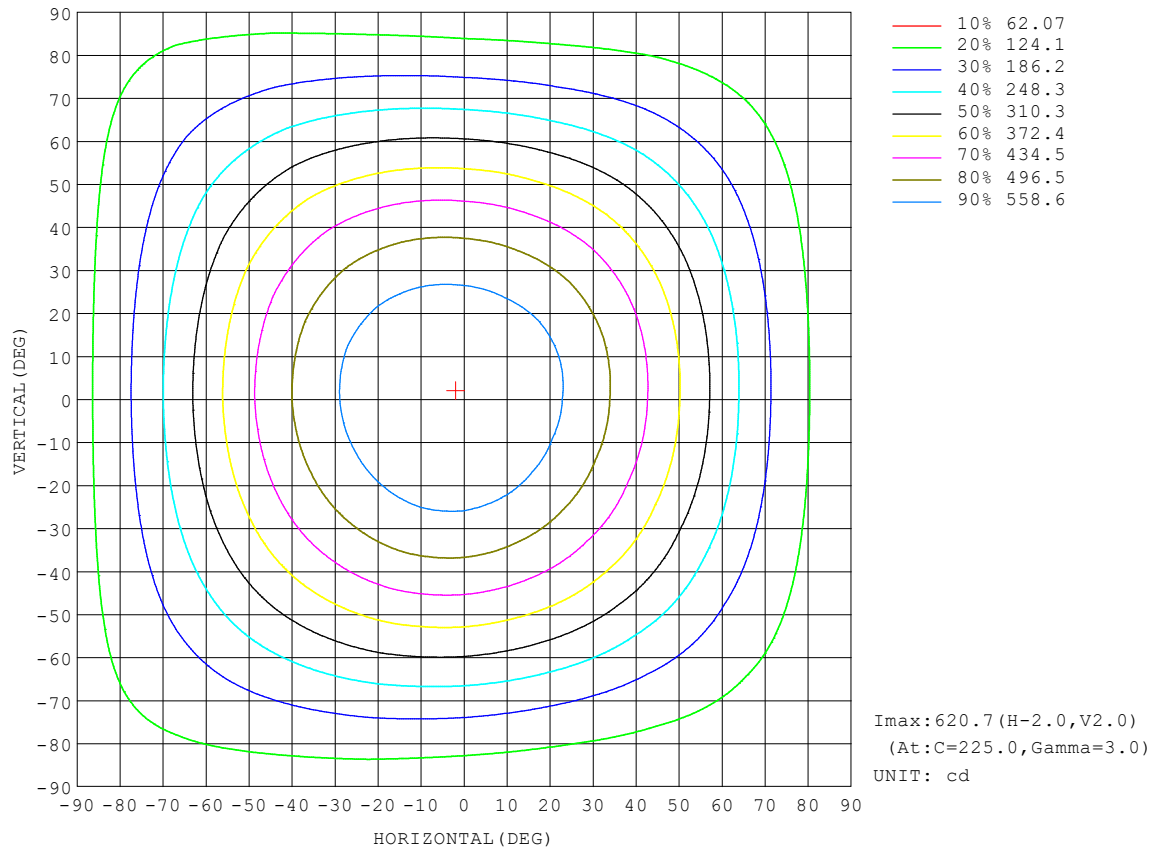
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	51	40	33	50	39	33	26
0.80	62	49	42	61	49	41	58	48	41	33
1.00	70	58	50	68	57	49	66	58	49	41
1.25	77	65	57	75	64	57	72	62	55	47
1.50	82	71	63	80	69	62	76	67	61	52
2.00	89	79	71	87	77	70	82	74	68	59
2.50	93	84	77	91	82	76	86	79	73	63
3.00	97	88	82	94	86	80	89	82	77	67
4.00	101	94	88	98	92	86	92	87	83	71
5.00	104	98	93	101	95	91	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:9.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME:ASD-LFMDR-MV-18D28CC-NK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

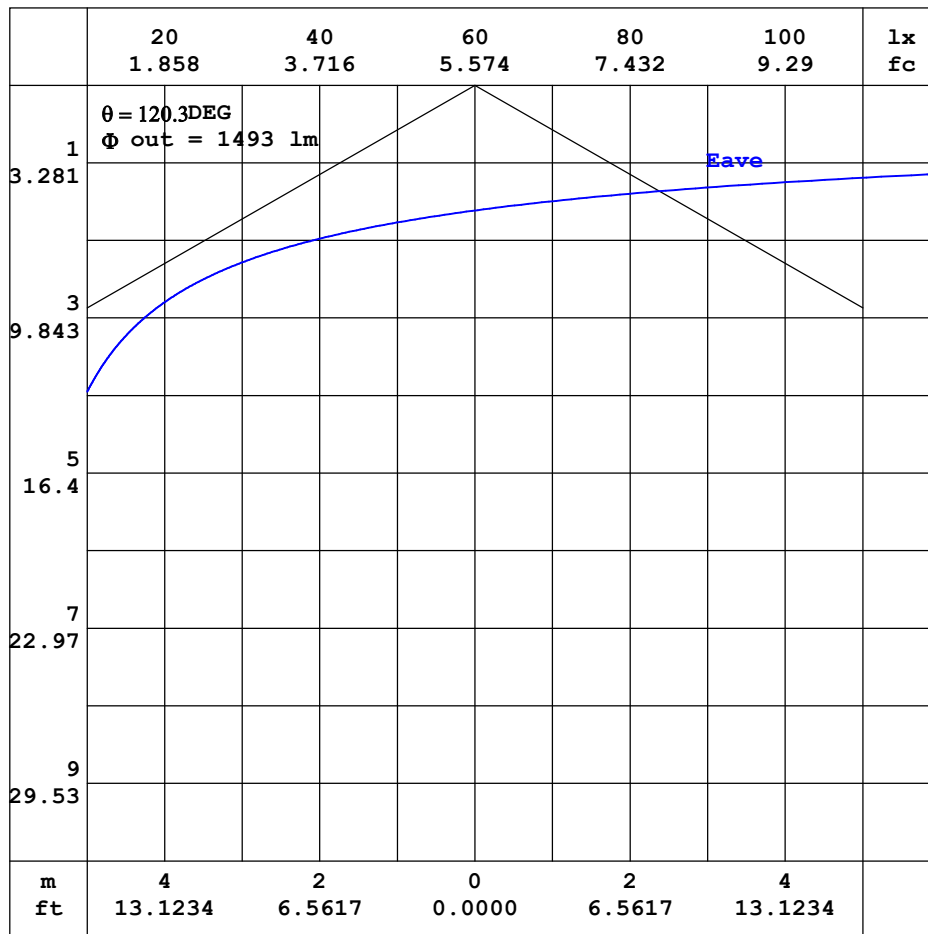


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-03-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

AAI CURVES

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME: ASD-LFMDR-MV-18D28CC-NK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0



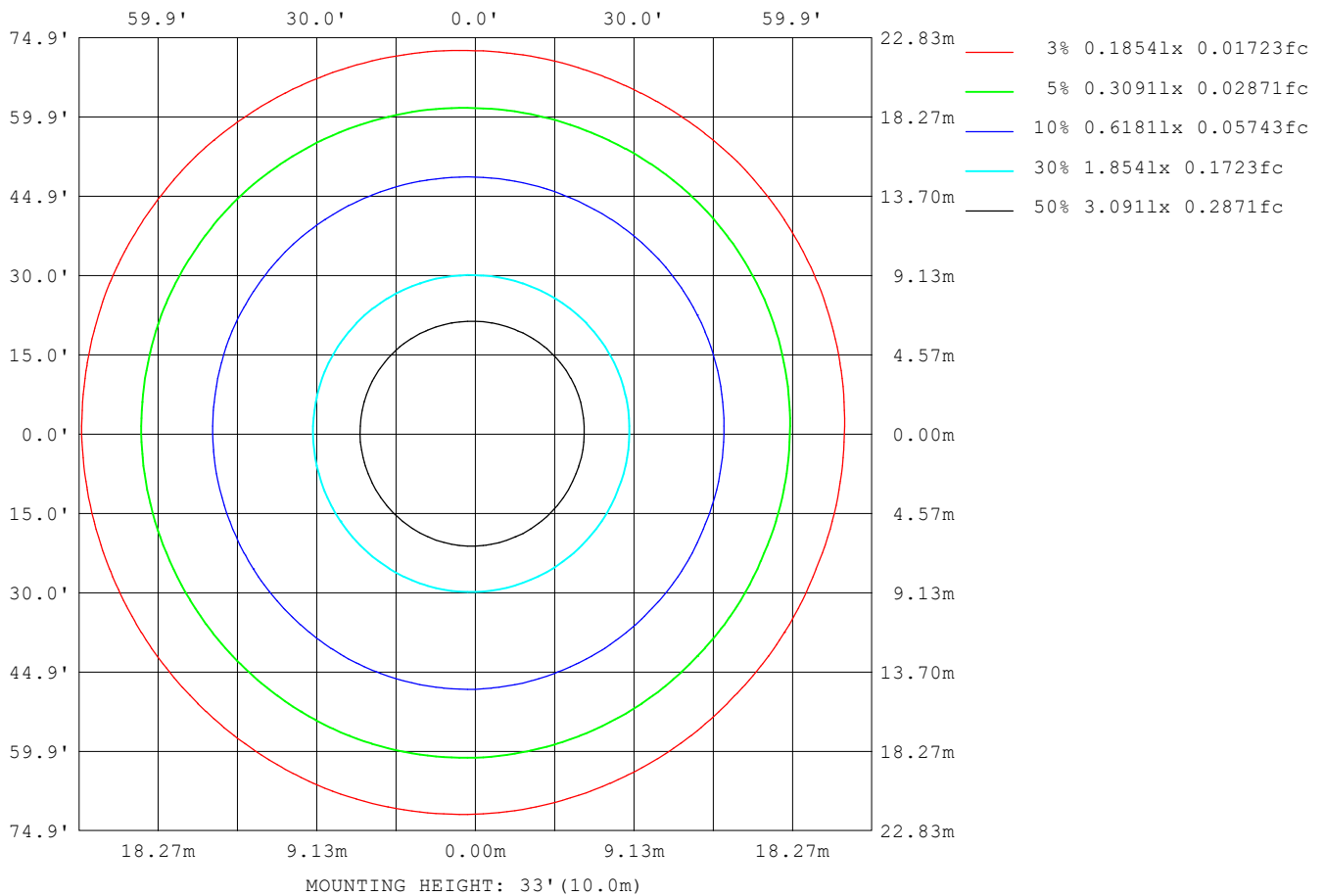
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: 9.500m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME:ASD-LFMDR-MV-18D28CC-NK	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:9.500m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME: ASD-LFMDR-MV-18D28CC-NK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 18inch	SERIAL No.:1
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:0

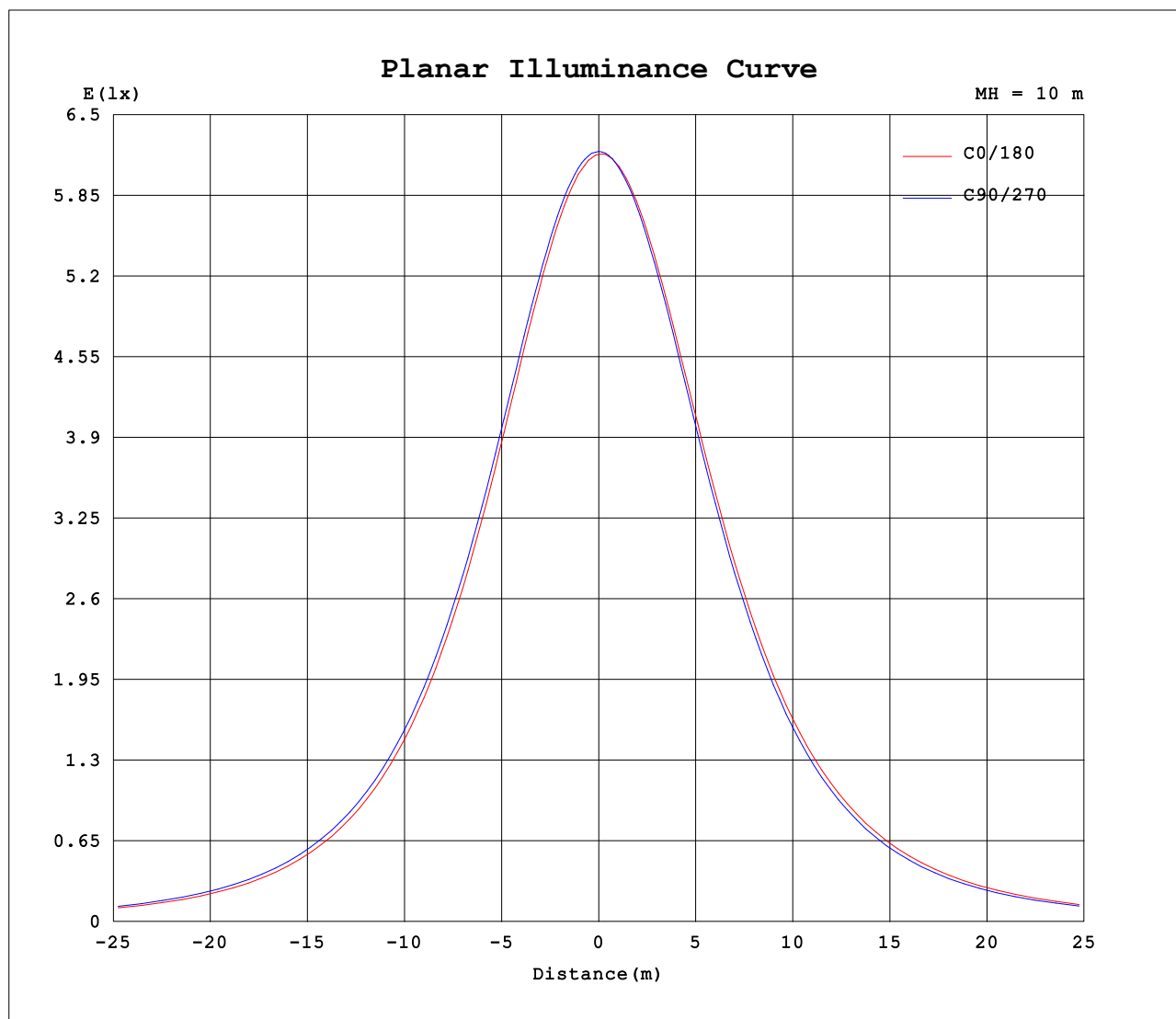
AvgL	cd/m2
L_0~180 (65) av	78585
L_0~180 (75) av	88038
L_0~180 (85) av	165240
L_90~270 (65) av	78686
L_90~270 (75) av	87681
L_90~270 (85) av	163870
L_45 (65) av	78794
L_45 (75) av	88085
L_45 (85) av	165770

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:9.500m [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: 9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.15V I:0.2576A P:27.939W PF:0.9027 Freq:59.98Hz Lamp Flux:2236.56x1 lm		
NAME:ASD-LFMDR-MV-18D28CC-NK	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	618	619	619	620	620	620	620	619	618	619	619	620	620	620	620	619			
5	613	613	615	616	618	619	619	618	618	620	620	619	618	617	616	615			
10	604	603	605	608	611	613	613	614	615	617	616	614	612	610	608	606			
15	590	589	591	595	599	603	603	605	607	609	607	604	601	598	596	594			
20	571	569	573	578	583	587	589	591	593	596	594	590	585	581	580	576			
25	548	545	549	555	563	567	569	572	576	578	577	572	566	560	558	554			
30	520	517	521	529	537	543	545	548	554	557	555	548	540	535	532	527			
35	489	485	489	498	508	514	517	521	527	530	528	520	512	506	503	497			
40	454	450	454	463	474	482	485	490	497	500	498	489	479	473	469	464			
45	416	411	415	426	437	446	449	455	462	466	463	453	443	435	432	425			
50	374	368	373	384	397	406	410	416	424	429	425	415	403	395	391	384			
55	329	324	329	340	354	363	368	373	383	388	384	372	360	351	347	340			
60	284	278	283	294	308	318	323	329	338	343	340	328	315	306	302	295			
65	238	233	237	249	263	273	277	284	293	298	294	282	270	260	257	249			
70	197	191	195	205	218	228	233	239	248	252	249	237	225	217	214	206			
75	159	154	157	166	178	187	191	197	205	210	206	195	185	178	175	168			
80	126	122	125	132	143	151	155	159	167	171	168	158	149	143	140	134			
85	97.6	94.3	96.2	102	111	119	122	126	133	137	134	125	117	113	110	105			
90	72.7	70.0	71.5	76.3	83.6	90.4	92.9	96.3	103	106	104	96.5	89.4	85.4	83.2	78.5			
95	53.7	51.7	52.6	56.3	61.7	66.7	68.7	71.3	76.4	79.6	77.6	72.0	66.8	63.7	61.9	58.4			
100	40.4	39.0	39.6	42.0	45.6	49.1	50.6	52.5	56.4	58.8	57.5	53.6	50.0	47.9	46.5	43.8			
105	32.6	31.9	31.9	32.9	34.9	37.2	38.1	39.2	42.3	44.2	43.7	41.2	39.0	37.7	36.8	34.9			
110	29.8	29.3	29.0	29.1	29.9	31.3	32.0	32.4	34.2	35.6	35.6	34.4	33.7	33.6	33.1	31.7			
115	27.5	26.8	26.6	26.8	27.7	28.9	29.5	30.0	31.4	32.3	32.4	31.7	31.4	31.2	30.8	29.5			
120	24.9	24.1	23.9	24.2	25.1	26.3	26.9	27.4	28.9	29.7	29.8	29.2	28.8	28.5	28.1	26.9			
125	22.0	21.1	21.0	21.4	22.4	23.4	24.0	24.5	26.1	26.8	26.9	26.2	25.8	25.5	25.1	24.0			
130	18.9	17.9	17.8	18.4	19.3	20.3	20.9	21.4	22.9	23.6	23.6	23.0	22.5	22.2	21.8	20.8			
135	15.6	14.6	14.6	15.2	16.1	16.9	17.4	18.0	19.4	20.1	20.1	19.5	19.0	18.6	18.3	17.3			
140	12.3	11.4	11.4	12.1	12.8	13.5	13.9	14.5	15.8	16.4	16.4	15.8	15.3	14.8	14.6	13.8			
145	9.49	8.98	8.84	9.20	9.76	10.3	10.5	11.0	12.2	12.7	12.7	12.1	11.7	11.3	11.1	10.6			
150	7.89	7.26	7.22	7.47	7.82	8.13	8.35	8.61	9.26	9.51	9.54	9.23	9.04	8.87	8.77	8.59			
155	6.38	5.85	5.83	5.98	6.26	6.49	6.67	6.88	7.44	7.72	7.64	7.36	7.18	7.05	6.98	6.94			
160	5.22	4.87	4.80	4.93	5.14	5.26	5.31	5.56	6.00	6.23	6.13	5.86	5.70	5.59	5.57	5.53			
165	4.54	4.41	4.37	4.41	4.50	4.57	4.58	4.71	5.09	5.19	5.11	4.96	4.83	4.76	4.73	4.66			
170	4.26	4.20	4.20	4.18	4.23	4.26	4.27	4.31	4.62	4.70	4.63	4.56	4.49	4.44	4.43	4.38			
175	3.98	3.89	3.83	3.88	3.96	3.99	4.01	4.07	4.25	4.34	4.32	4.24	4.18	4.14	4.11	4.03			
180	3.94	3.94	3.86	3.70	3.61	3.59	3.60	3.62	3.94	3.93	3.87	3.70	3.61	3.60	3.61	3.62			

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C Interval: 22.5DEG
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