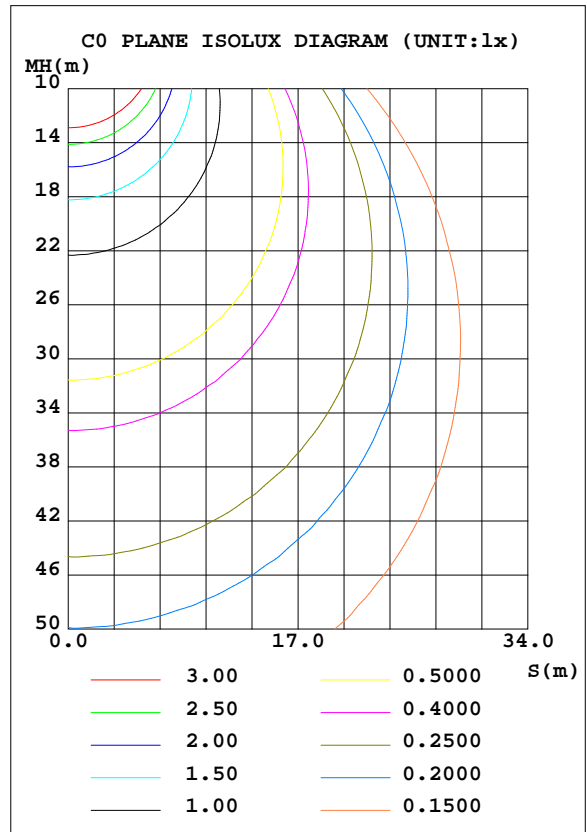
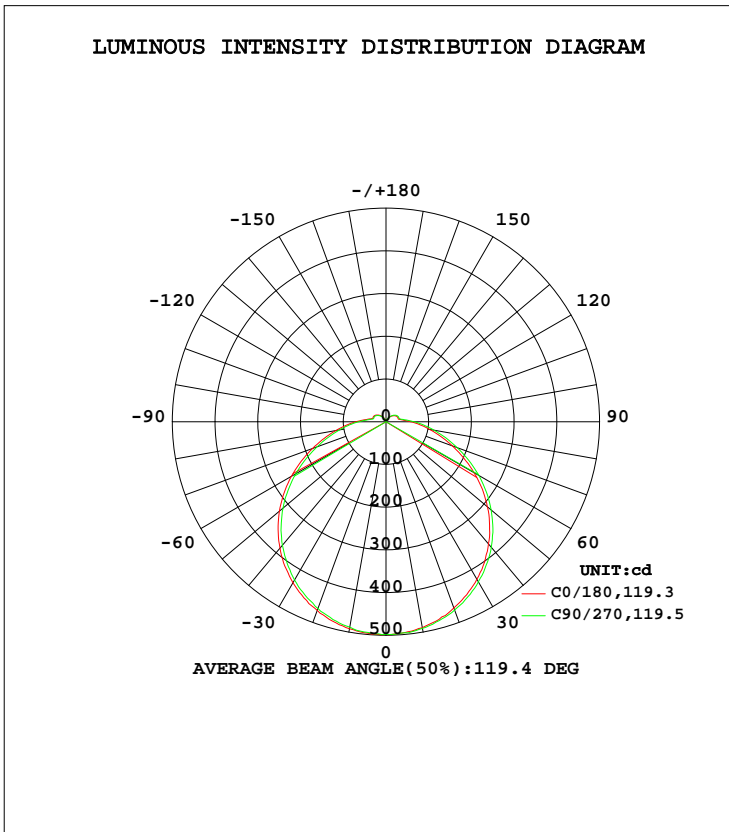


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.74 lm/W			
MODEL	PSZ2S220523002-10	Imax(cd)	498.8	S/MH(C0/180)	1.27
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1789.6	η UP, DN(C0-180)	4.7,45.2
NOMINAL FLUX(lm)	1789.62	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.7,45.4
LAMPS INSIDE	1	η up(%)	9.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	90.6	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [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	491.8	489.5	488.3	488.5	489.6	489.5	491.2	492.2	0- 10	47.15	47.15	2.63,2.63
20	470.2	466.5	465.3	465.3	464.1	466.2	469.2	469.6	10- 20	135.7	182.9	10.2,10.2
30	435.4	430.7	428.0	425.9	425.5	429.3	432.6	433.7	20- 30	207.7	390.5	21.8,21.8
40	386.3	381.6	377.5	373.5	373.0	378.5	383.5	385.0	30- 40	254.4	645.0	36,36
50	326.0	320.4	314.5	311.3	309.7	314.9	321.3	322.8	40- 50	270.2	915.2	51.1,51.1
60	255.7	249.8	243.8	239.8	237.6	244.3	250.9	253.4	50- 60	253.2	1168	65.3,65.3
70	182.7	176.8	171.7	167.6	165.3	171.7	177.3	180.8	60- 70	208.1	1376	76.9,76.9
80	119.3	114.8	110.7	106.5	103.8	109.2	114.3	117.0	70- 80	149.8	1526	85.3,85.3
90	70.60	67.36	64.22	60.64	58.33	62.63	66.44	68.52	80- 90	95.04	1621	90.6,90.6
100	38.98	36.72	34.93	33.30	32.52	34.45	36.47	38.52	90-100	52.76	1674	93.5,93.5
110	32.15	30.38	30.10	29.72	29.55	30.66	31.74	32.85	100-110	33.67	1708	95.4,95.4
120	30.19	28.40	28.21	27.41	27.26	28.42	29.49	30.45	110-120	29.87	1738	97.1,97.1
130	24.81	23.39	22.76	22.17	22.01	23.35	24.07	24.91	120-130	23.56	1761	98.4,98.4
140	18.39	16.75	16.20	15.51	15.77	16.74	17.04	18.08	130-140	15.69	1777	99.3,99.3
150	11.83	10.30	9.594	8.668	8.151	9.611	10.07	10.40	140-150	8.368	1785	99.8,99.8
160	5.333	4.787	4.909	4.060	4.001	4.121	4.335	4.786	150-160	3.225	1788	99.9,99.9
170	2.923	2.895	2.909	2.372	2.496	2.456	2.257	1.945	160-170	0.9755	1789	100,100
180	0.8229	0.8320	0.4498	0.3544	0.8390	0.8356	0.8351	0.8338	170-180	0.1743	1790	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 780.19 lm

%lum = 43.6%
%lamp = 43.6%

Conical surface Flux(120deg): 1168.4 lm

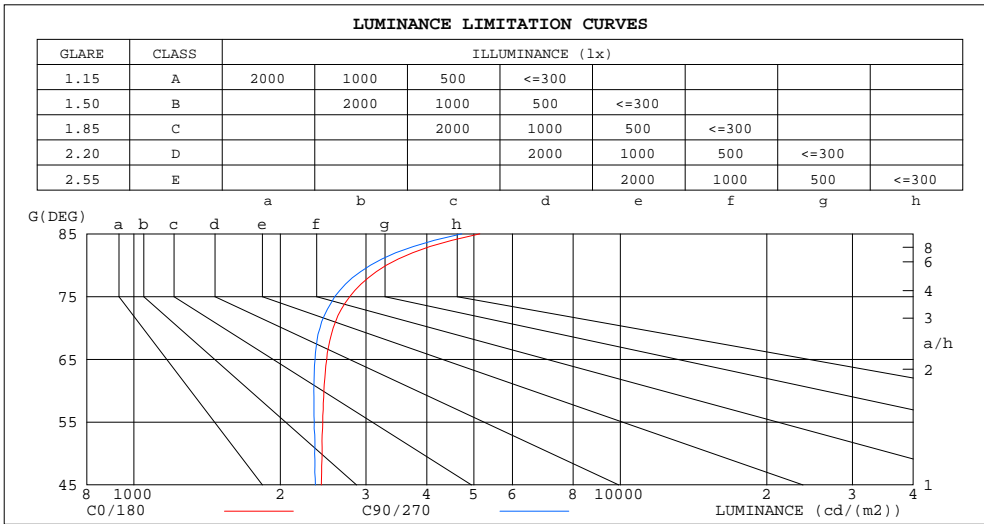
%lum = 65.3%
%lamp = 65.3%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:Carl
Test Date:2022-06-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:37%
Test Distance:2.526m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5142	4721
80	3302	3064
75	2778	2587
70	2568	2413
65	2492	2358
60	2458	2344
55	2445	2349
50	2438	2352
45	2429	2362

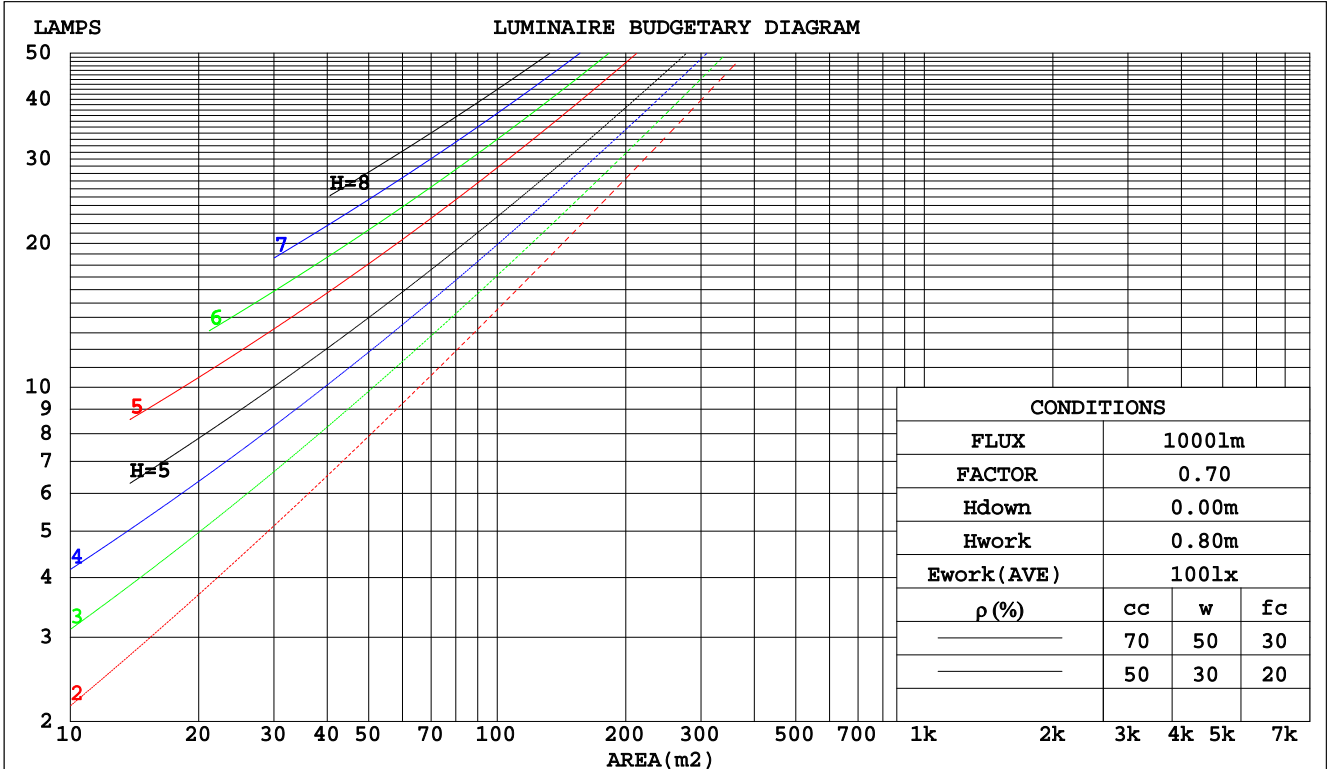
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: Carl
 Test Date: 2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 37%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	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	.99	.99	.99	.93	.93	.93	.91
1.0	.99	.94	.90	.96	.92	.88	.90	.86	.83	.84	.82	.79	.79	.77	.75	.72
2.0	.86	.78	.72	.83	.76	.70	.78	.72	.67	.73	.68	.64	.69	.65	.61	.59
3.0	.75	.66	.59	.72	.64	.58	.68	.61	.56	.64	.58	.54	.60	.55	.51	.49
4.0	.66	.57	.50	.64	.55	.49	.60	.53	.47	.57	.50	.45	.53	.48	.44	.41
5.0	.59	.49	.42	.57	.48	.42	.54	.46	.40	.51	.44	.39	.48	.42	.38	.35
6.0	.53	.43	.37	.51	.43	.36	.48	.41	.35	.46	.39	.34	.43	.38	.33	.31
7.0	.48	.39	.32	.46	.38	.32	.44	.36	.31	.42	.35	.30	.40	.34	.29	.27
8.0	.43	.35	.29	.42	.34	.28	.40	.33	.28	.38	.32	.27	.36	.30	.26	.24
9.0	.40	.31	.26	.39	.31	.25	.37	.30	.25	.35	.29	.24	.33	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.22	.32	.26	.22	.31	.25	.21	.19



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.354	.202	.064	.344	.196	.062	.325	.187	.060	.308	.178	.057	.292	.169	.055	
2.0	.316	.173	.053	.307	.169	.052	.290	.161	.050	.275	.154	.048	.260	.147	.046	
3.0	.285	.152	.045	.277	.148	.045	.262	.142	.043	.248	.136	.042	.235	.130	.040	
4.0	.259	.135	.040	.252	.132	.039	.238	.126	.038	.226	.121	.037	.214	.116	.035	
5.0	.237	.121	.035	.231	.119	.035	.219	.114	.034	.207	.109	.033	.196	.105	.032	
6.0	.219	.110	.031	.213	.107	.031	.202	.103	.030	.191	.099	.029	.181	.096	.028	
7.0	.202	.100	.028	.197	.098	.028	.187	.095	.027	.178	.091	.026	.169	.088	.026	
8.0	.188	.092	.026	.183	.090	.026	.174	.087	.025	.166	.084	.024	.157	.081	.024	
9.0	.176	.085	.024	.171	.084	.023	.163	.081	.023	.155	.078	.022	.148	.075	.022	
10.0	.165	.079	.022	.161	.078	.022	.153	.075	.021	.146	.072	.021	.139	.070	.020	

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	.262	.262	.262	.224	.224	.224	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.256	.228	.203	.219	.196	.175	.150	.135	.121	.086	.078	.070	.028	.025	.023	
2.0	.248	.205	.168	.213	.176	.145	.146	.122	.101	.084	.071	.059	.027	.023	.019	
3.0	.241	.188	.145	.206	.162	.126	.142	.112	.088	.082	.066	.052	.026	.021	.017	
4.0	.233	.175	.130	.200	.151	.113	.137	.105	.080	.079	.062	.047	.026	.020	.015	
5.0	.225	.165	.120	.193	.142	.104	.133	.099	.074	.077	.058	.044	.025	.019	.014	
6.0	.218	.156	.112	.187	.135	.098	.129	.095	.069	.075	.056	.041	.024	.018	.014	
7.0	.211	.150	.107	.181	.130	.093	.125	.091	.066	.073	.054	.039	.024	.018	.013	
8.0	.204	.144	.103	.176	.125	.089	.122	.088	.063	.071	.052	.038	.023	.017	.013	
9.0	.198	.139	.099	.171	.121	.087	.118	.085	.062	.069	.050	.037	.022	.016	.012	
10.0	.192	.135	.097	.166	.117	.084	.115	.082	.060	.067	.049	.036	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm										
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K					TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A		
MFR.: ASD Lighting corp					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	15.4	16.9	15.8	17.2	17.6	15.3	16.7	15.7	17.1	17.5
3H	17.3	18.6	17.7	19.0	19.5	17.1	18.4	17.5	18.8	19.2
4H	18.2	19.5	18.7	19.9	20.4	18.0	19.2	18.4	19.7	20.1
6H	19.2	20.4	19.7	20.8	21.3	18.9	20.1	19.3	20.5	21.0
8H	19.7	20.9	20.2	21.3	21.8	19.4	20.5	19.8	21.0	21.5
12H	20.3	21.4	20.8	21.8	22.3	19.9	21.0	20.4	21.5	22.0
4H 2H	16.1	17.3	16.5	17.8	18.2	15.9	17.2	16.4	17.6	18.1
3H	18.2	19.3	18.6	19.7	20.2	18.0	19.1	18.5	19.5	20.0
4H	19.3	20.3	19.8	20.8	21.3	19.0	20.0	19.5	20.5	21.1
6H	20.4	21.3	20.9	21.8	22.4	20.1	21.0	20.6	21.5	22.1
8H	21.0	21.8	21.5	22.4	23.0	20.7	21.5	21.2	22.1	22.7
12H	21.7	22.5	22.2	23.0	23.6	21.3	22.1	21.9	22.7	23.3
8H 4H	19.6	20.5	20.2	21.0	21.6	19.5	20.3	20.0	20.8	21.4
6H	21.0	21.8	21.6	22.3	23.0	20.8	21.5	21.4	22.1	22.7
8H	21.8	22.5	22.4	23.0	23.7	21.5	22.2	22.1	22.8	23.4
12H	22.7	23.3	23.3	23.9	24.5	22.4	23.0	23.0	23.6	24.2
12H 4H	19.7	20.5	20.3	21.1	21.7	19.5	20.3	20.1	20.9	21.5
6H	21.2	21.8	21.8	22.4	23.1	21.0	21.6	21.6	22.2	22.9
8H	22.1	22.6	22.7	23.2	23.9	21.8	22.4	22.4	23.0	23.7
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	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1790 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

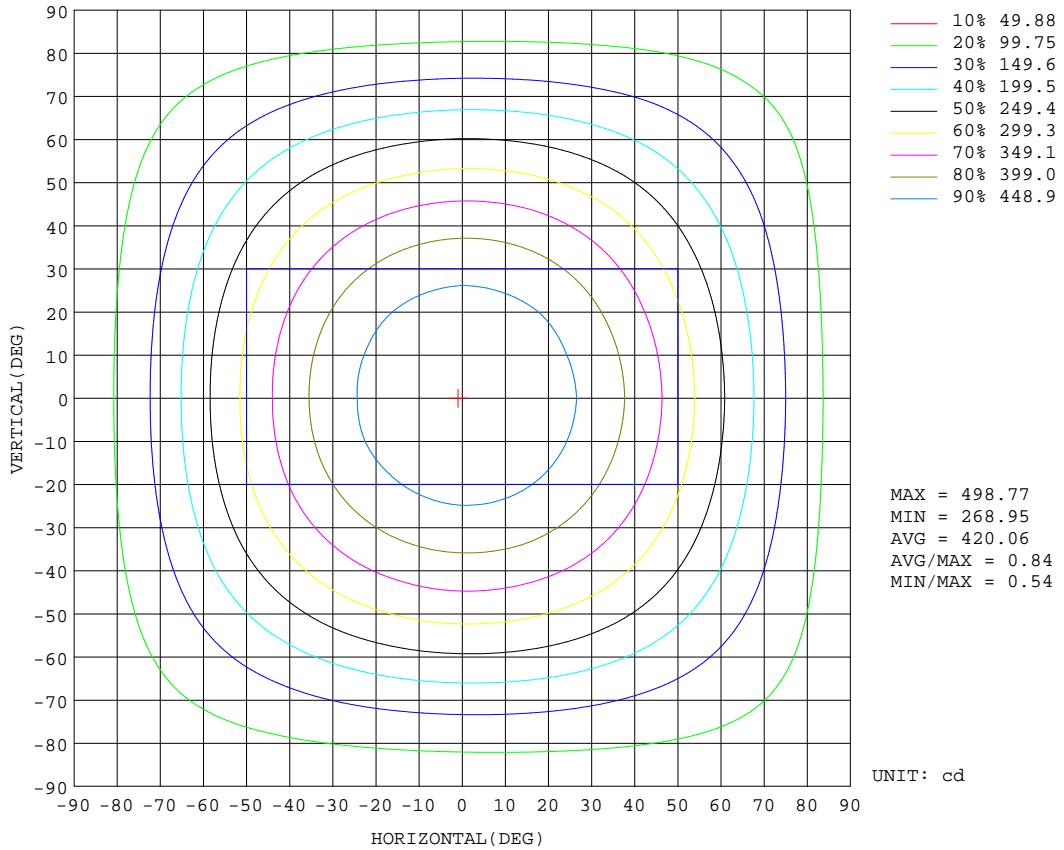
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	40	33	51	40	33	50	39	33	26
0.80	62	49	42	61	49	41	58	48	41	33
1.00	70	58	50	68	57	49	65	58	49	41
1.25	77	65	57	75	64	57	71	62	55	47
1.50	82	71	63	80	70	62	76	67	61	51
2.00	89	79	72	87	77	70	82	74	68	58
2.50	93	84	77	90	82	76	85	78	73	62
3.00	97	89	82	94	86	80	88	82	77	66
4.00	101	94	88	98	92	87	92	87	83	71
5.00	104	98	93	101	95	91	94	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:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

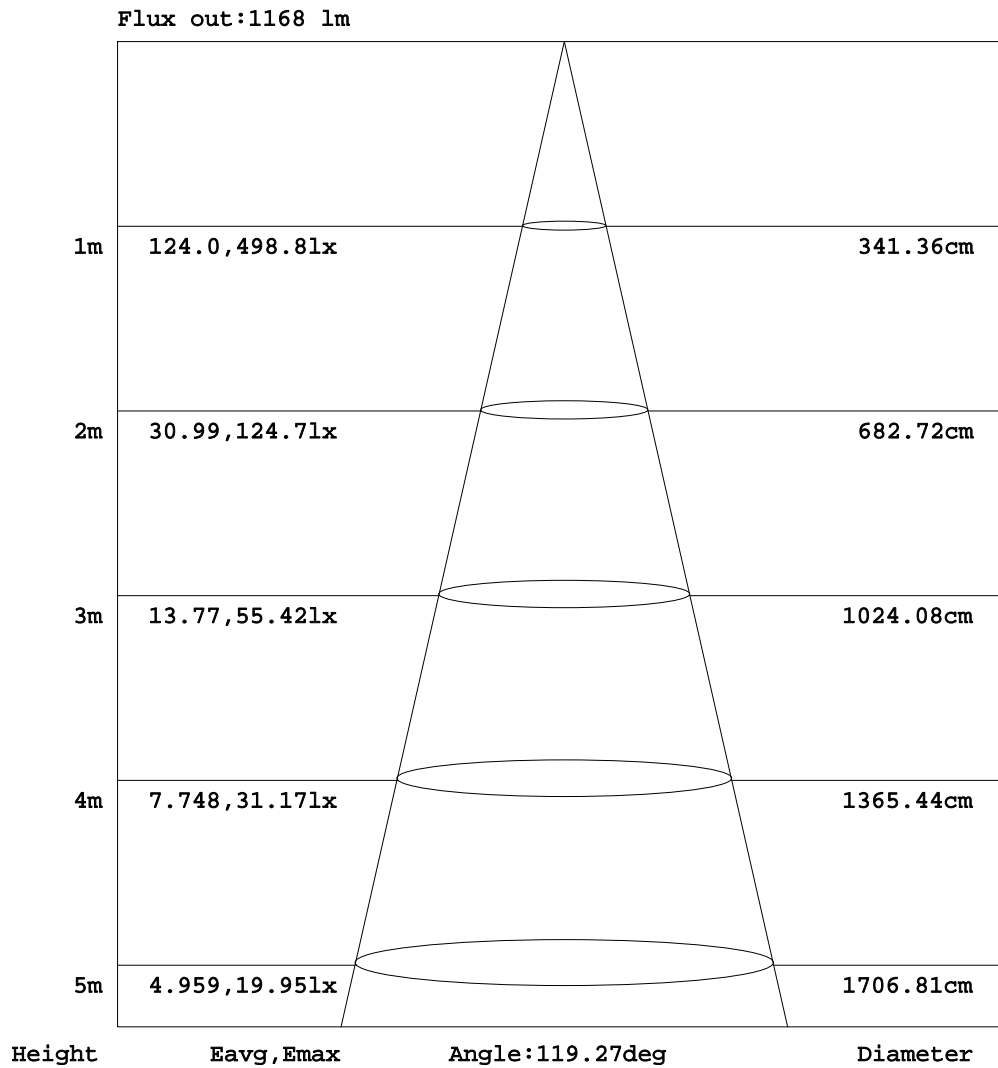


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



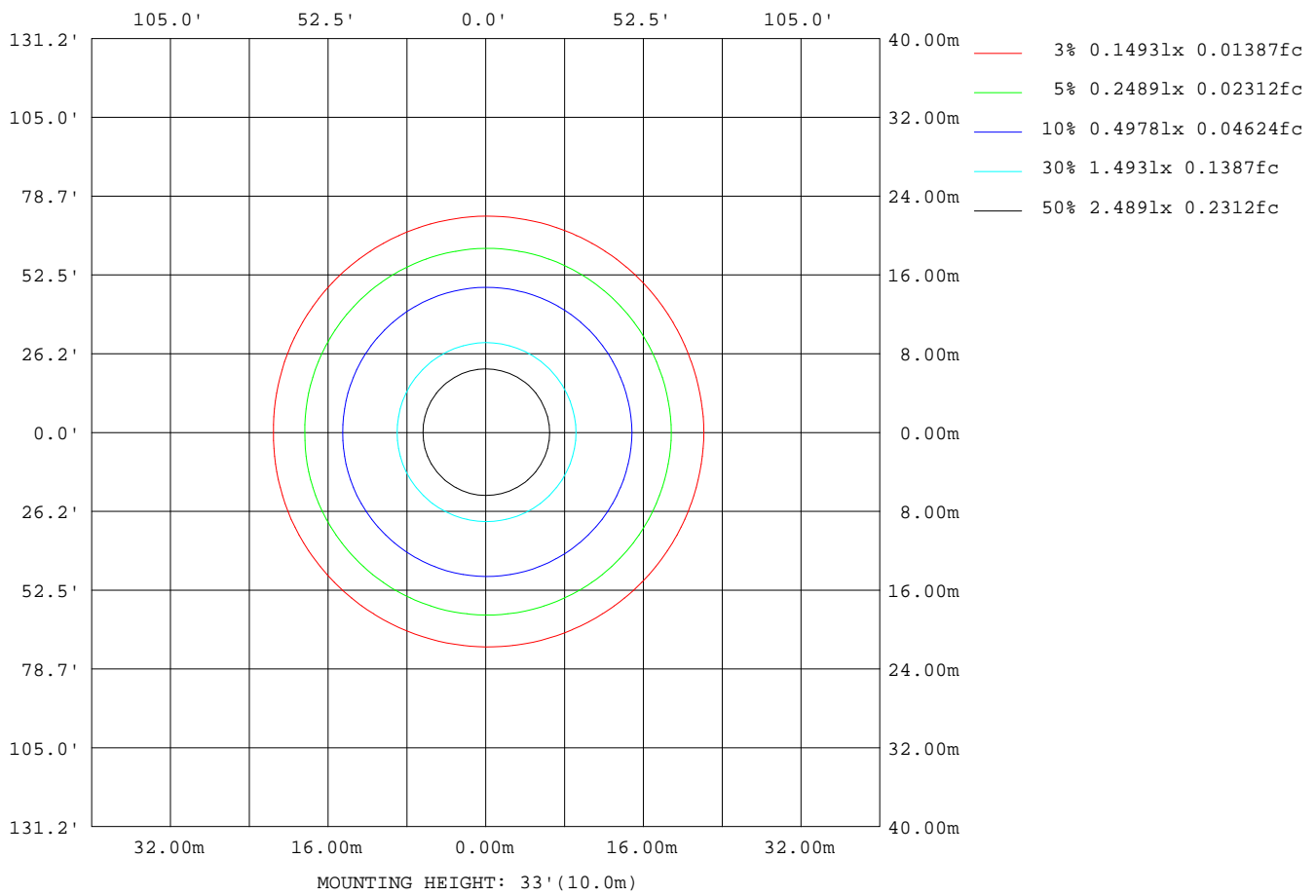
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

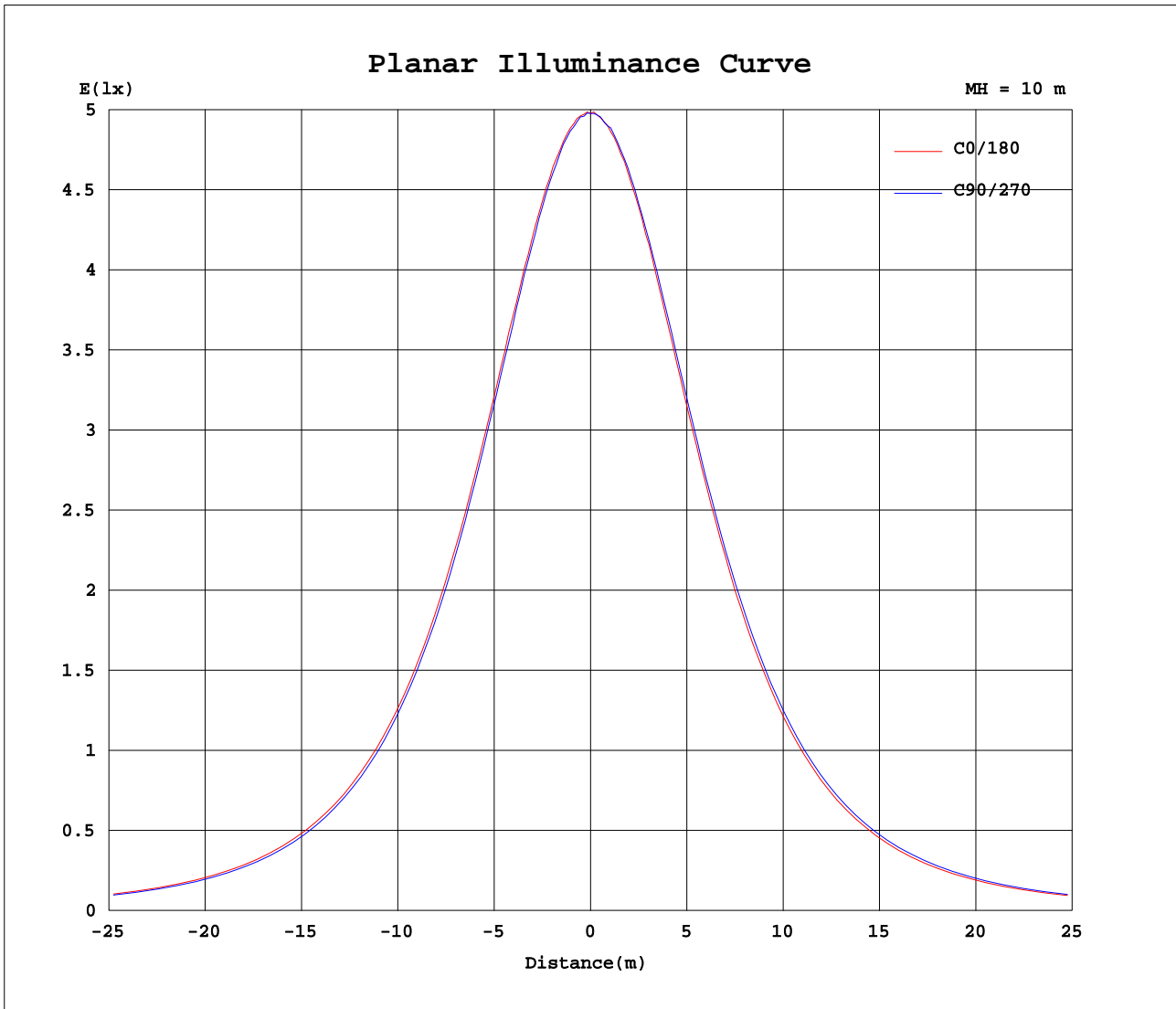
AvgL	cd/m2
L_0~180(65)av	2387
L_0~180(75)av	2619
L_0~180(85)av	4755
L_90~270(65)av	2395
L_90~270(75)av	2634
L_90~270(85)av	4802
L_45(65)av	2389
L_45(75)av	2622
L_45(85)av	4771

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:Carl
 Test Date:2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:37%
 Test Distance:2.526m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: Carl
 Test Date: 2022-06-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 37%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.1613A P:18.89W PF:0.9753 Lamp Flux:1789.62x1 lm		
NAME: ASD-LFMDR-MV-14D21CC-EM-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498			
5	497	496	496	496	495	496	496	494	496	496	496	496	496	497	496	496			
10	492	490	489	490	488	489	489	490	490	489	490	491	491	491	492	492			
15	483	482	480	481	480	479	478	479	479	478	480	482	482	483	484	483			
20	470	467	466	466	465	465	465	465	464	466	466	468	469	470	470	470			
25	455	453	451	449	448	447	446	448	447	447	450	452	453	453	454	453			
30	435	432	431	429	428	427	426	426	426	427	429	431	433	433	434	434			
35	413	410	408	406	404	402	402	403	402	403	406	408	409	411	412	410			
40	386	384	382	379	377	376	374	375	373	376	378	380	383	384	385	385			
45	357	355	352	349	347	345	344	344	343	346	348	351	354	356	356	356			
50	326	323	320	317	314	313	311	313	310	313	315	319	321	323	323	324			
55	292	288	285	283	280	278	276	277	275	278	280	284	287	289	289	289			
60	256	252	250	247	244	242	240	240	238	240	244	248	251	252	253	254			
65	219	216	213	210	207	204	203	203	201	204	207	210	214	215	217	216			
70	183	180	177	174	172	169	168	167	165	168	172	174	177	179	181	181			
75	150	146	143	142	139	137	135	135	132	135	138	142	144	146	148	148			
80	119	117	115	113	111	108	106	106	104	107	109	112	114	116	117	117			
85	93.2	91.3	89.5	87.3	85.6	83.7	81.6	81.2	79.2	81.6	83.9	86.3	88.5	90.1	90.9	90.9			
90	70.6	69.0	67.4	65.6	64.2	62.6	60.6	59.8	58.3	60.4	62.6	64.7	66.4	67.9	68.5	68.9			
95	51.8	50.5	49.2	47.8	46.7	45.5	43.8	42.9	42.1	44.1	45.6	47.1	48.3	49.7	50.7	50.6			
100	39.0	37.7	36.7	36.2	34.9	34.4	33.3	32.7	32.5	33.5	34.4	35.9	36.5	37.6	38.5	37.8			
105	32.2	31.4	30.7	30.3	30.0	30.2	29.9	29.5	29.7	30.3	30.6	31.3	31.7	32.4	32.7	32.0			
110	32.2	31.0	30.4	30.2	30.1	30.3	29.7	29.5	29.6	30.2	30.7	31.3	31.7	32.2	32.9	32.4			
115	31.6	30.4	29.7	29.7	29.6	29.5	28.9	28.6	28.7	29.4	30.0	30.6	31.0	31.5	32.2	31.9			
120	30.2	29.0	28.4	28.3	28.2	28.0	27.4	27.1	27.3	27.8	28.4	29.1	29.5	30.0	30.5	30.1			
125	27.7	26.7	26.3	25.9	25.7	25.6	25.0	24.7	24.9	25.5	26.1	26.7	27.0	27.4	27.9	27.6			
130	24.8	23.9	23.4	23.0	22.8	22.6	22.2	22.0	22.0	22.8	23.3	23.8	24.1	24.3	24.9	24.8			
135	21.7	20.8	20.1	19.8	19.6	19.4	19.0	18.8	19.1	19.5	20.2	20.6	21.0	21.0	21.6	21.5			
140	18.4	17.3	16.8	16.5	16.2	15.9	15.5	15.5	15.8	16.1	16.7	16.8	17.0	17.2	18.1	17.9			
145	15.0	13.6	13.5	13.1	12.9	12.4	12.0	12.1	11.8	12.6	13.1	13.2	13.2	13.2	14.1	14.3			
150	11.8	9.95	10.3	9.84	9.59	9.18	8.67	9.12	8.15	8.49	9.61	9.45	10.1	9.93	10.4	10.8			
155	7.71	6.79	7.25	6.95	6.76	6.50	5.78	6.05	5.65	5.68	6.08	6.51	6.60	6.54	7.16	7.28			
160	5.33	4.81	4.79	5.44	4.91	4.78	4.06	4.82	4.00	4.01	4.12	4.49	4.33	3.96	4.79	4.88			
165	4.04	3.24	3.48	3.80	3.75	3.22	2.96	2.99	2.74	2.67	2.63	3.03	3.01	2.46	3.34	3.53			
170	2.92	2.37	2.90	2.38	2.91	2.73	2.37	2.67	2.50	2.50	2.46	2.10	2.26	1.74	1.94	2.53			
175	1.72	2.20	2.09	1.47	1.40	1.50	1.46	1.59	1.60	1.57	2.01	1.72	1.08	0.94	1.35	0.94			
180	0.82	0.83	0.83	0.79	0.45	0.33	0.35	0.32	0.84	0.84	0.84	0.84	0.84	0.84	0.83	0.84			

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 C Interval: 22.5DEG
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