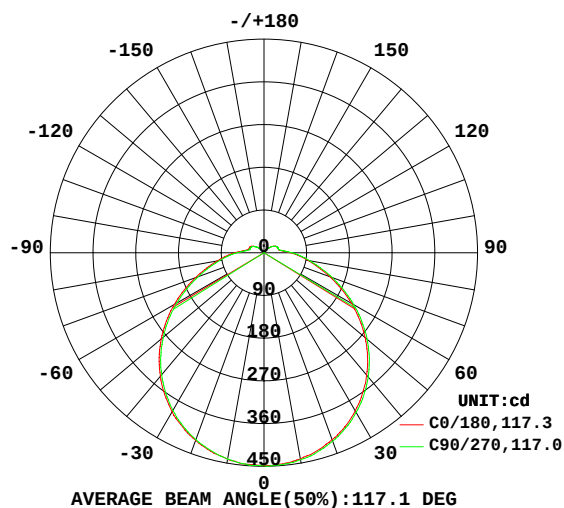


LUMINAIRE PHOTOMETRIC TEST REPORT

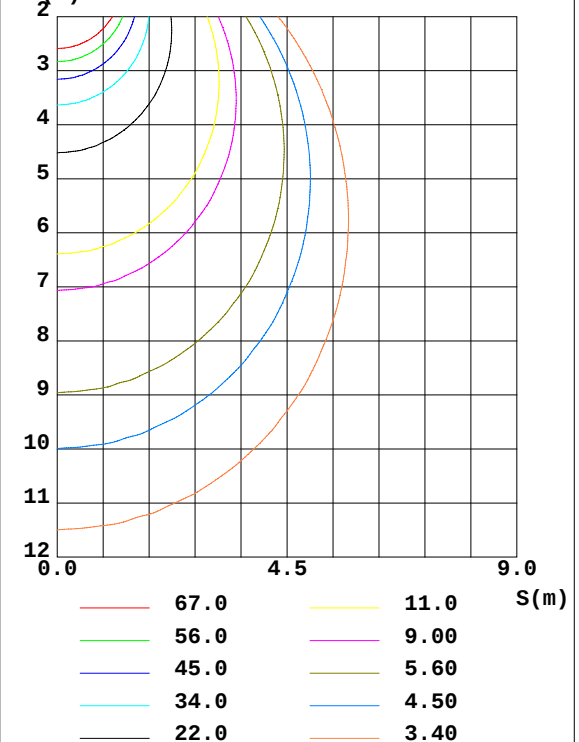
Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm		
NAME: ASD-LFMDR-MV-12D20CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.07 lm/W			
MODE: ASD-LFMDR-MV-12D20CC-XX		I _{max} (cd)	450.1	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)	1583.8	η UP, DN(C0-180)	4.7, 45.0
NOMINAL FLUX(lm)	1583.81	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.8, 45.5
LAMPS INSIDE	1	η up(%)	9.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	90.5	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Ben
 Test Date: 2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 35%
 Test Distance: 2.490m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

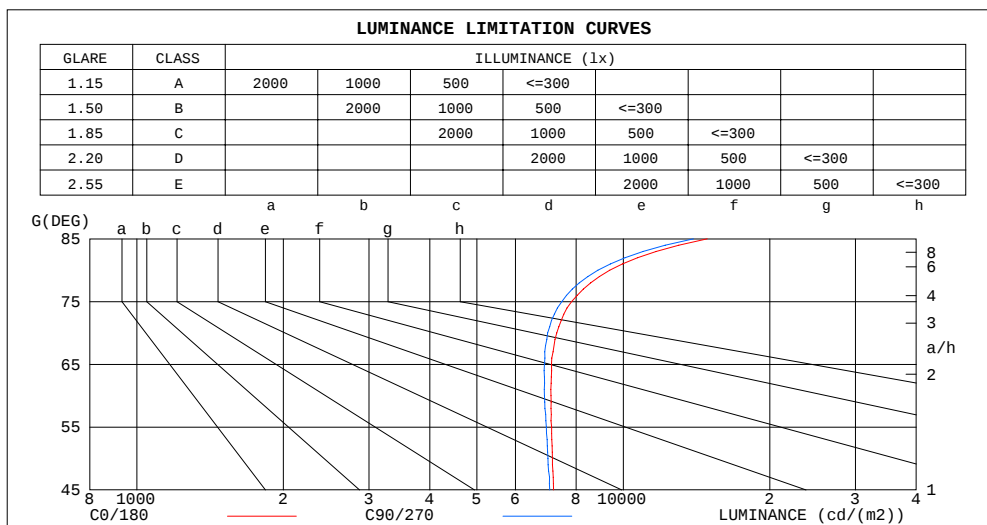
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	442.1	440.1	441.3	440.6	441.2	441.4	442.6	441.6	0- 10	42.51	42.51	2.68, 2.68
20	420.8	418.8	419.0	419.3	418.9	420.9	422.5	422.0	10- 20	122.2	164.7	10.4, 10.4
30	387.0	384.1	383.7	383.5	384.9	386.9	388.1	388.2	20- 30	186.7	351.4	22.2, 22.2
40	339.7	336.9	335.4	335.8	336.6	339.1	341.8	340.8	30- 40	227.5	578.9	36.6, 36.6
50	282.6	278.9	277.1	276.8	278.1	280.9	283.5	283.5	40- 50	239.5	818.5	51.7, 51.7
60	218.3	214.5	212.0	211.8	212.9	216.0	218.2	219.0	50- 60	222.1	1041	65.7, 65.7
70	153.4	148.9	147.3	147.5	147.9	150.5	152.9	154.0	60- 70	180.6	1221	77.1, 77.1
80	100.1	96.33	94.84	95.06	94.51	96.48	98.05	99.41	70- 80	129.0	1350	85.2, 85.2
90	61.91	57.63	56.82	57.26	56.53	58.15	59.11	60.51	80- 90	83.80	1434	90.5, 90.5
100	35.53	33.21	33.37	33.71	33.09	33.42	34.24	35.29	90-100	48.35	1482	93.6, 93.6
110	32.59	30.77	30.64	31.33	31.30	31.38	31.34	31.97	100-110	33.68	1516	95.7, 95.7
120	28.10	26.14	26.60	27.77	27.75	27.97	27.84	28.18	110-120	29.83	1546	97.6, 97.6
130	18.03	16.51	17.28	18.88	19.58	19.98	19.21	18.64	120-130	20.93	1567	98.9, 98.9
140	7.856	7.099	8.393	9.570	10.40	10.42	9.930	8.771	130-140	10.70	1577	99.6, 99.6
150	3.279	3.338	2.981	4.157	4.425	3.692	4.951	3.631	140-150	3.895	1581	99.8, 99.8
160	3.316	2.939	2.057	3.326	2.911	1.763	2.817	2.653	150-160	1.478	1583	99.9, 99.9
170	2.514	2.731	2.408	3.210	3.046	1.881	2.486	3.023	160-170	0.7617	1584	100, 100
180	0.4382	0.5754	0.6229	0.6685	0.6825	0.6821	0.6818	0.6823	170-180	0.1963	1584	100, 100
DEG	LUMINOUS INTENSITY:cd Less than 25% Percent = 11.5 %									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Ben
 Test Date: 2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 35%
 Test Distance: 2.490m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm		
NAME: ASD-LFMDR-MV-12D20CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	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	14870	13934
80	9377	8868
75	7831	7475
70	7295	6991
65	7116	6883
60	7102	6884
55	7124	6944
50	7152	6999
45	7189	7059

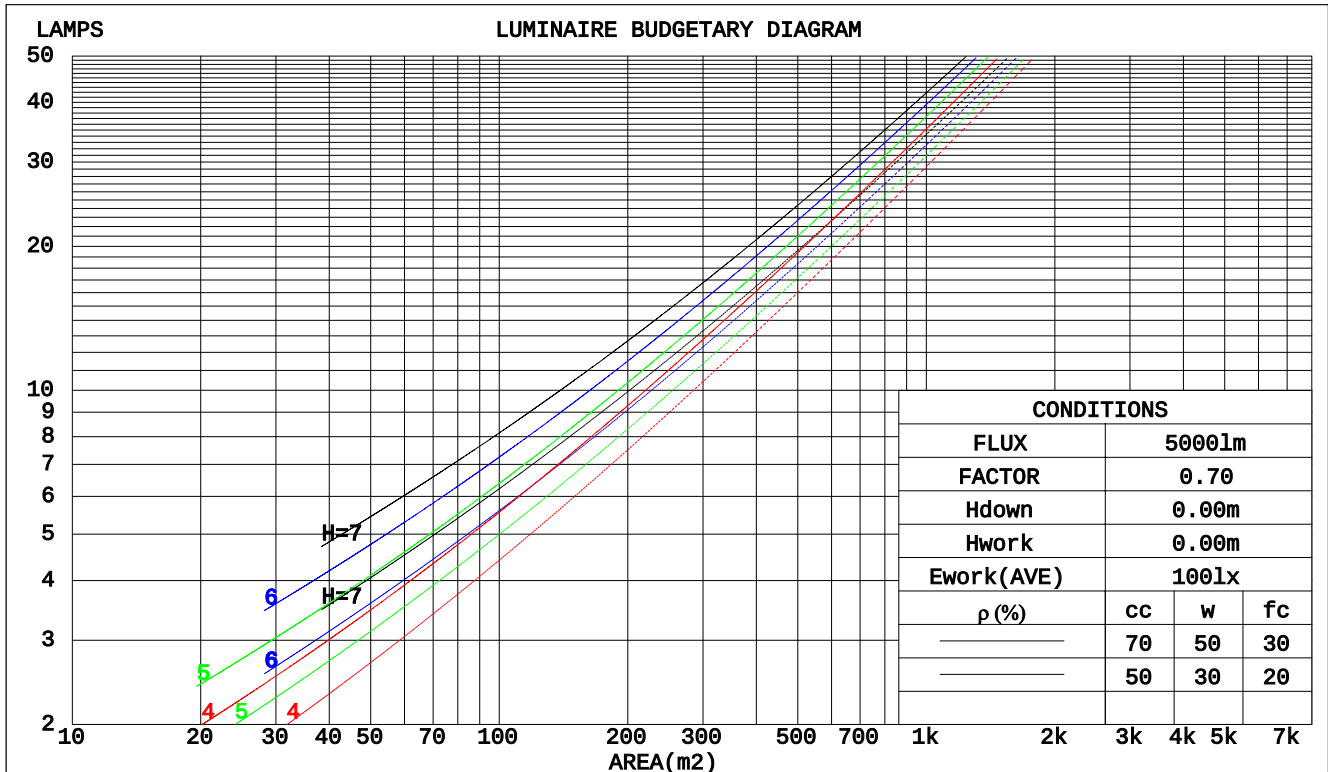
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Ben
Test Date:2020-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm		
NAME: ASD-LFMDR-MV-12D20CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	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	1.17	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	.87	.83	.85	.82	.79	.79	.77	.75	.72
2.0	.86	.78	.72	.83	.76	.71	.78	.72	.67	.73	.69	.65	.69	.65	.62	.59
3.0	.75	.66	.59	.73	.65	.58	.68	.62	.56	.64	.59	.54	.60	.56	.52	.49
4.0	.66	.57	.50	.64	.56	.49	.60	.53	.47	.57	.51	.46	.54	.48	.44	.42
5.0	.59	.50	.43	.57	.49	.42	.54	.46	.41	.51	.45	.39	.48	.43	.38	.36
6.0	.53	.44	.37	.51	.43	.37	.49	.41	.36	.46	.39	.34	.44	.38	.33	.31
7.0	.48	.39	.33	.47	.38	.32	.44	.37	.31	.42	.35	.30	.40	.34	.30	.27
8.0	.44	.35	.29	.42	.34	.29	.40	.33	.28	.38	.32	.27	.36	.31	.26	.24
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.23	.33	.27	.22	.31	.26	.22	.20



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Ben
 Test Date:2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.490m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm									
NAME: ASD-LFMDR-MV-12D20CC-XX					TYPE:N/A			WEIGHT:N/A	
SPEC.:					DIM.: N/A			SERIAL No.:N/A	
MFR.: ASD Lighting corp					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	.352	.200	.063	.342	.195	.062	.323	.185	.059	.306	.176	.057	.290	.168	.054	
2.0	.314	.172	.053	.305	.168	.052	.288	.160	.050	.273	.153	.048	.258	.146	.046	
3.0	.284	.151	.045	.276	.148	.044	.260	.141	.043	.246	.135	.041	.233	.129	.040	
4.0	.258	.134	.039	.251	.131	.039	.237	.126	.038	.224	.121	.036	.213	.116	.035	
5.0	.236	.120	.035	.230	.118	.034	.217	.113	.033	.206	.109	.032	.195	.104	.031	
6.0	.218	.109	.031	.212	.107	.031	.201	.103	.030	.190	.099	.029	.181	.095	.028	
7.0	.202	.100	.028	.196	.098	.028	.186	.094	.027	.177	.091	.026	.168	.087	.026	
8.0	.188	.092	.026	.183	.090	.025	.174	.087	.025	.165	.084	.024	.157	.081	.023	
9.0	.175	.085	.024	.171	.083	.023	.162	.080	.023	.155	.077	.022	.147	.075	.022	
10.0	.164	.079	.022	.160	.077	.022	.153	.075	.021	.145	.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	.263	.263	.263	.224	.224	.224	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.256	.228	.204	.219	.196	.175	.150	.135	.121	.086	.078	.071	.028	.025	.023	
2.0	.248	.205	.168	.213	.176	.146	.146	.122	.102	.084	.071	.060	.027	.023	.019	
3.0	.241	.188	.146	.206	.162	.127	.142	.113	.089	.082	.066	.052	.026	.021	.017	
4.0	.233	.175	.131	.200	.151	.114	.137	.105	.080	.079	.062	.047	.026	.020	.016	
5.0	.225	.165	.120	.193	.143	.105	.133	.100	.074	.077	.059	.044	.025	.019	.014	
6.0	.218	.157	.113	.187	.136	.098	.129	.095	.070	.075	.056	.041	.024	.018	.014	
7.0	.211	.150	.107	.182	.130	.094	.125	.091	.066	.073	.054	.039	.024	.018	.013	
8.0	.204	.144	.103	.176	.125	.090	.122	.088	.064	.071	.052	.038	.023	.017	.013	
9.0	.198	.140	.100	.171	.121	.087	.118	.085	.062	.069	.050	.037	.022	.016	.012	
10.0	.192	.135	.097	.166	.117	.085	.115	.083	.060	.067	.049	.036	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Ben
 Test Date:2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.490m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm											
NAME: ASD-LFMDR-MV-12D20CC-XX					TYPE:N/A			WEIGHT:N/A			
SPEC.:					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		19.1	20.5	19.5	20.9	21.3	18.9	20.4	19.3	20.7	21.1
	3H	20.9	22.2	21.3	22.6	23.0	20.7	22.0	21.1	22.4	22.9
	4H	21.8	23.0	22.2	23.4	23.9	21.6	22.8	22.0	23.3	23.7
	6H	22.7	23.9	23.2	24.3	24.8	22.5	23.7	22.9	24.1	24.6
	8H	23.2	24.3	23.7	24.8	25.3	22.9	24.1	23.4	24.5	25.0
	12H	23.8	24.9	24.3	25.3	25.8	23.5	24.6	24.0	25.1	25.6
4H	2H	19.7	20.9	20.1	21.4	21.8	19.6	20.9	20.0	21.3	21.7
	3H	21.7	22.8	22.2	23.3	23.8	21.6	22.7	22.1	23.1	23.6
	4H	22.8	23.8	23.3	24.3	24.8	22.6	23.6	23.1	24.1	24.6
	6H	23.9	24.8	24.4	25.3	25.9	23.7	24.6	24.2	25.1	25.7
	8H	24.5	25.3	25.0	25.9	26.4	24.2	25.1	24.8	25.6	26.2
	12H	25.2	26.0	25.7	26.5	27.1	24.9	25.7	25.5	26.2	26.8
8H	4H	23.1	24.0	23.7	24.5	25.1	23.0	23.9	23.6	24.4	25.0
	6H	24.5	25.2	25.1	25.8	26.4	24.3	25.0	24.9	25.6	26.2
	8H	25.3	25.9	25.9	26.5	27.2	25.1	25.7	25.7	26.3	27.0
	12H	26.2	26.8	26.8	27.4	28.0	26.0	26.5	26.6	27.1	27.8
12H	4H	23.2	24.0	23.8	24.5	25.1	23.1	23.9	23.6	24.4	25.0
	6H	24.7	25.3	25.3	25.9	26.5	24.5	25.1	25.1	25.7	26.4
	8H	25.6	26.1	26.2	26.7	27.4	25.4	25.9	26.0	26.5	27.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 1584 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.6)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Ben
Test Date:2020-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm		
NAME: ASD-LFMDR-MV-12D20CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

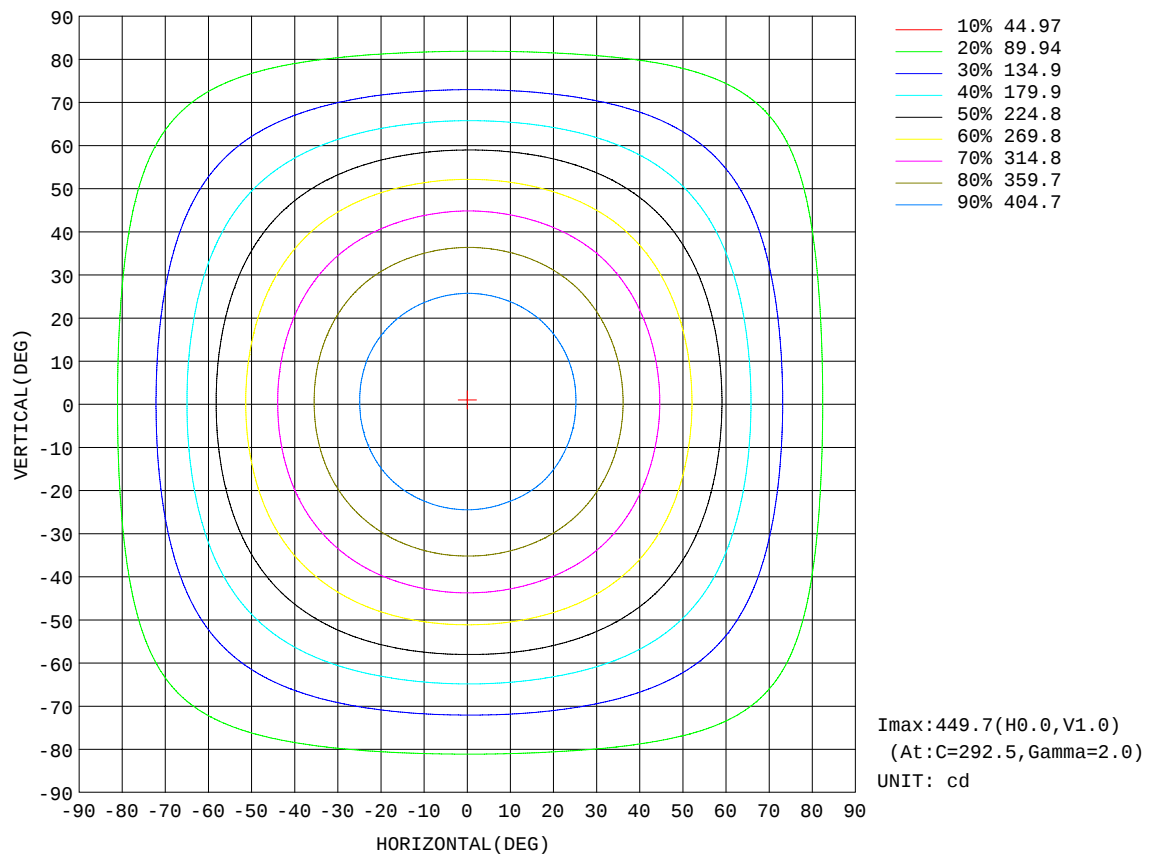
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	33	52	40	33	50	39	33	26
0.80	62	50	42	61	49	42	58	48	41	34
1.00	70	58	50	69	57	50	66	58	49	41
1.25	77	66	58	75	64	57	72	62	56	47
1.50	82	71	63	80	70	62	76	67	61	52
2.00	89	79	72	87	78	71	82	74	69	59
2.50	93	84	77	91	82	76	85	79	73	63
3.00	97	89	82	94	87	81	89	82	77	66
4.00	101	94	89	98	92	87	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:24.8DEG
 Operators:Ben
 Test Date:2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.490m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm		
NAME: ASD-LFMDR-MV-12D20CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

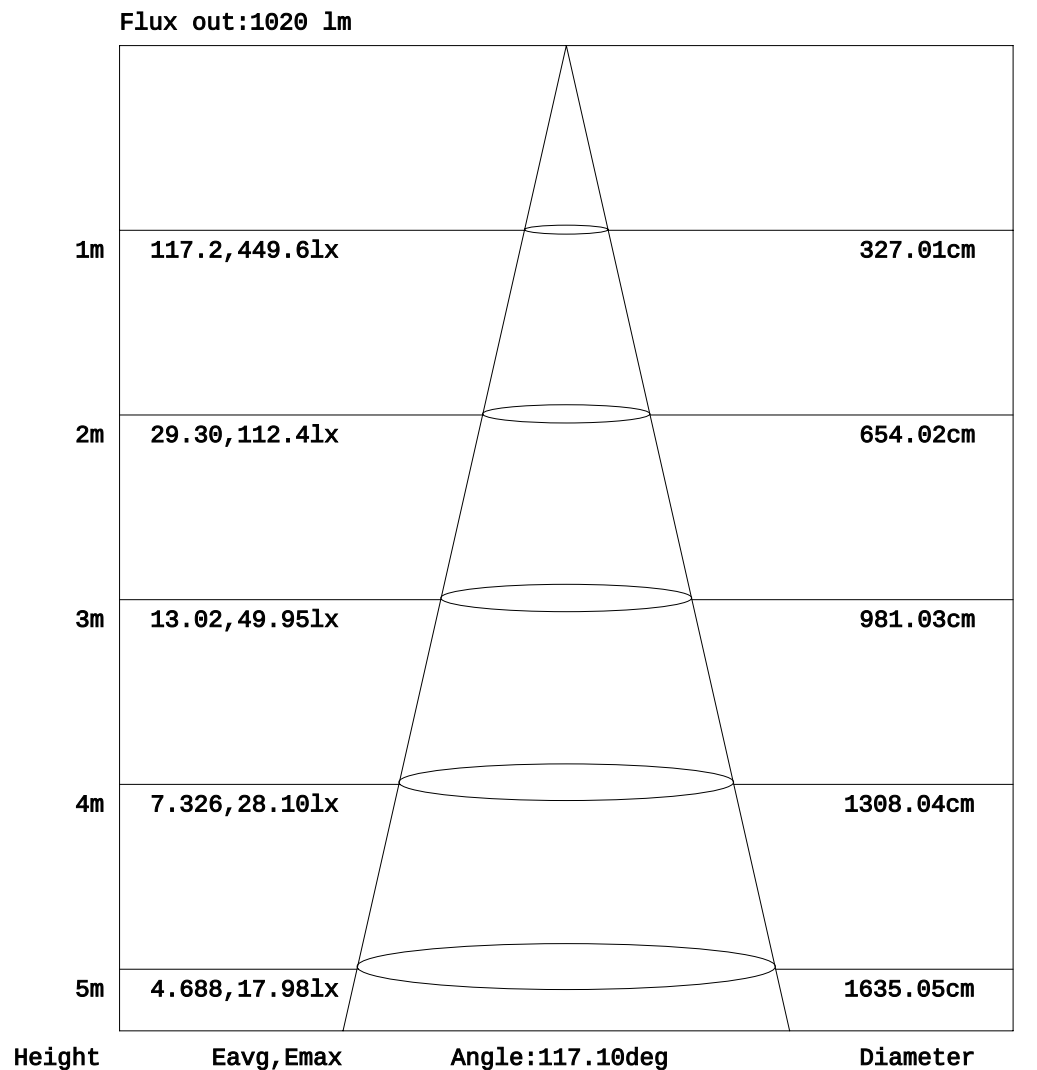


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Ben
Test Date: 2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 35%
Test Distance: 2.490m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm		
NAME: ASD-LFMDR-MV-12D20CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



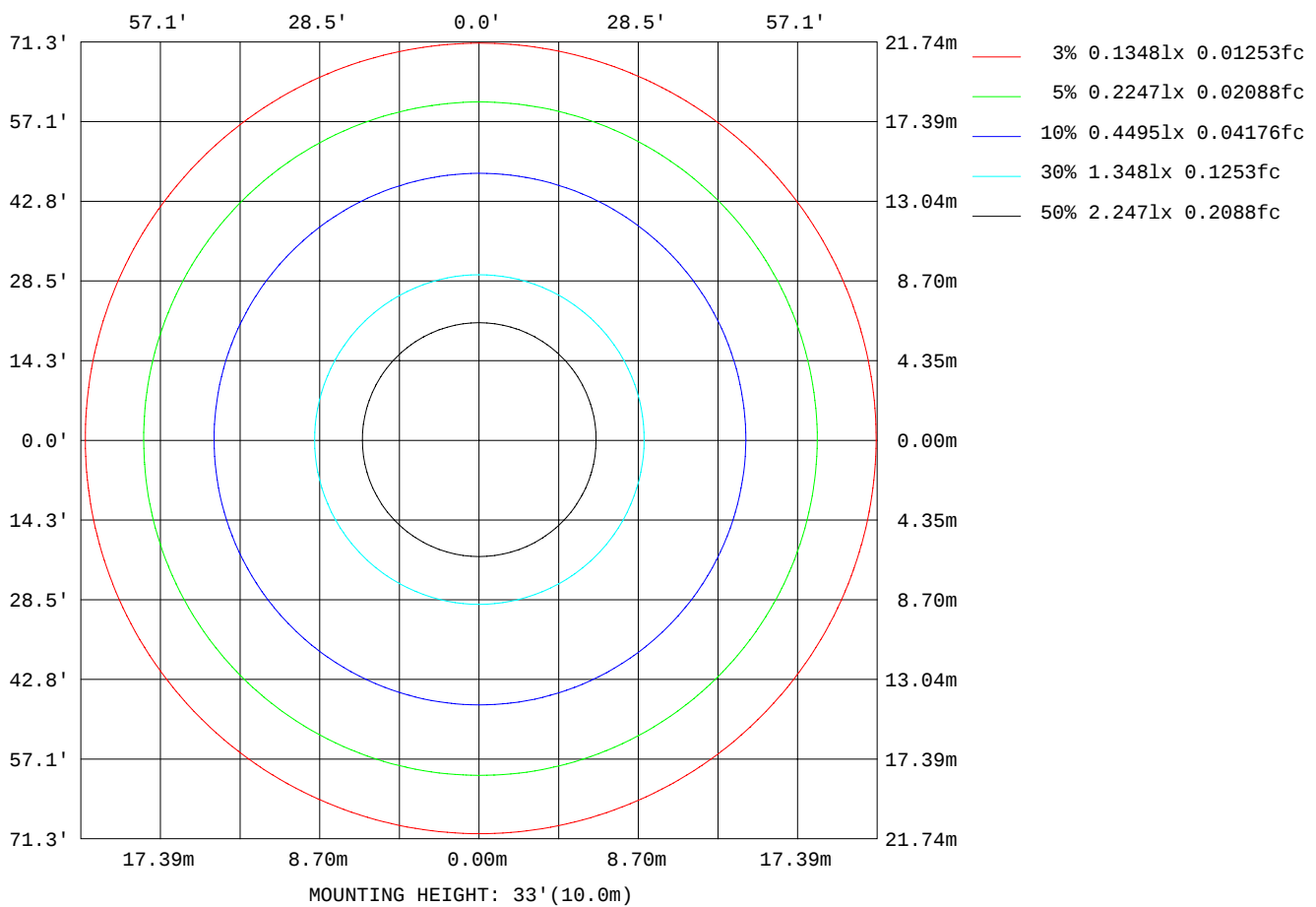
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Ben
 Test Date:2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.490m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm		
NAME: ASD-LFMDR-MV-12D20CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	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:24.8DEG
 Operators:Ben
 Test Date:2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.490m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm		
NAME: ASD-LFMDR-MV-12D20CC-XX	TYPE:N/A	WEIGHT:N/A
SPEC.:	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

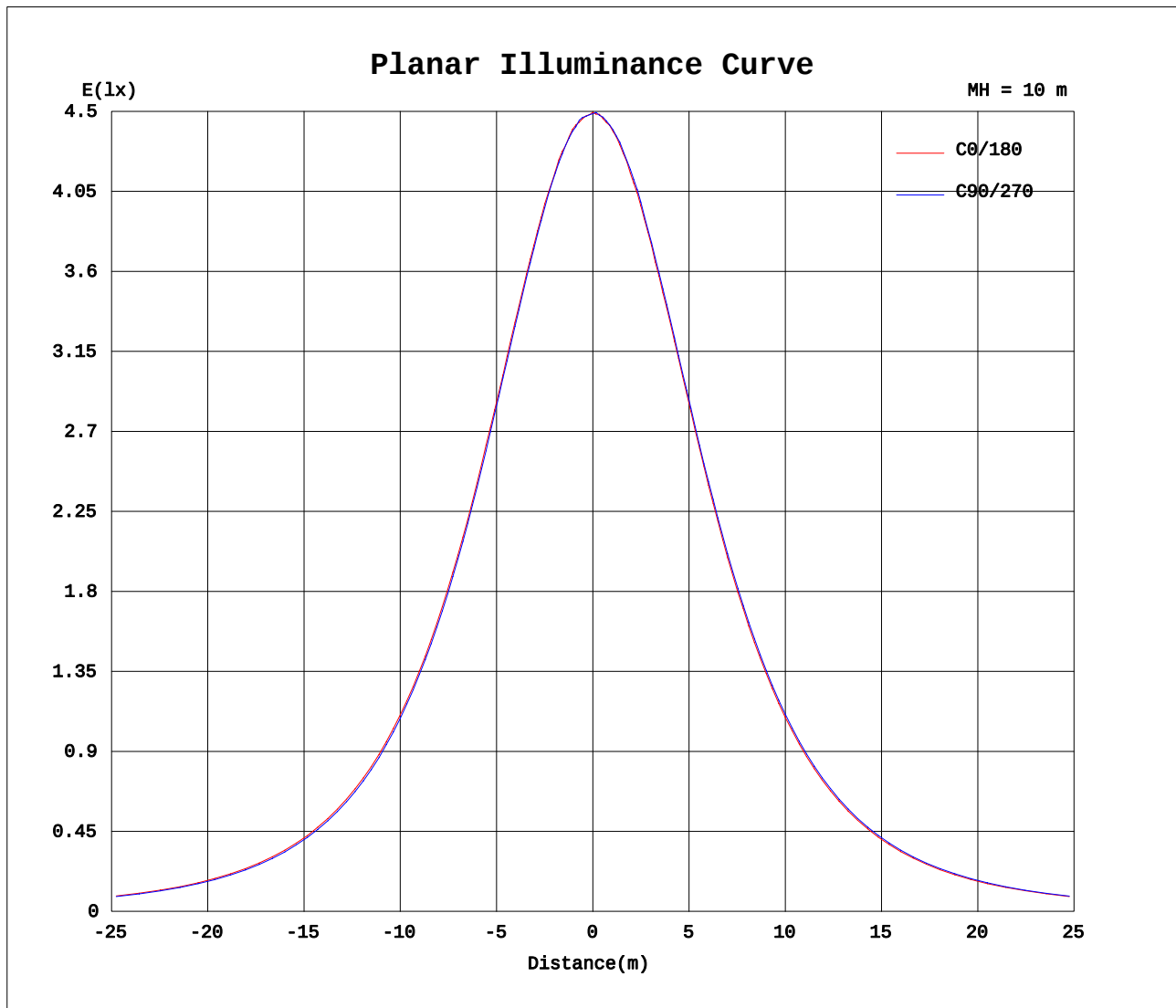
AvgL	cd/m2
L_0~180(65)av	7006
L_0~180(75)av	7636
L_0~180(85)av	14358
L_90~270(65)av	6999
L_90~270(75)av	7598
L_90~270(85)av	14169
L_45(65)av	6998
L_45(75)av	7615
L_45(85)av	14224

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Ben
Test Date:2020-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.490m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Ben
Test Date: 2020-07-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 35%
Test Distance: 2.490m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.1754A P:20.55W PF:0.9755 Lamp Flux:1583.81x1 lm																		
NAME: ASD-LFMDR-MV-12D20CC-XX									TYPE:N/A					WEIGHT:N/A				
SPEC.:									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	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449			
5	447	448	446	446	447	448	447	447	447	447	447	447	448	448	448	448			
10	442	442	440	441	441	441	441	441	441	442	441	442	443	443	442	443			
15	433	432	432	431	432	432	431	433	432	433	433	433	434	435	433	434			
20	421	420	419	419	419	419	419	420	419	421	421	422	422	423	422	422			
25	405	405	404	402	403	403	404	404	404	406	405	406	407	408	406	407			
30	387	386	384	383	384	384	383	384	385	386	387	388	388	389	388	387			
35	365	363	362	361	361	361	361	362	362	363	364	365	366	367	366	366			
40	340	338	337	335	335	336	336	337	337	338	339	340	342	342	341	341			
45	313	311	309	308	307	308	308	309	308	310	311	312	314	314	314	313			
50	283	281	279	277	277	277	277	278	278	280	281	282	284	284	283	284			
55	251	249	247	246	245	245	245	246	246	248	249	250	251	253	252	252			
60	218	216	214	213	212	212	212	213	213	214	216	217	218	219	219	219			
65	185	183	181	179	179	179	179	180	180	181	182	184	185	185	186	186			
70	153	151	149	147	147	147	148	148	148	149	150	152	153	154	154	154			
75	125	123	121	119	119	119	119	120	119	120	121	122	123	124	124	124			
80	100	98.4	96.3	95.2	94.8	95.1	95.1	95.3	94.5	95.5	96.5	97.5	98.0	98.8	99.4	100			
85	79.7	77.8	75.9	74.9	74.8	75.0	74.9	75.3	74.3	75.0	75.9	76.6	77.2	78.0	78.6	79.2			
90	61.9	59.6	57.6	56.8	56.8	57.3	57.3	57.2	56.5	57.0	58.1	58.6	59.1	59.7	60.5	61.2			
95	45.6	44.2	42.3	41.6	42.3	42.3	42.8	42.3	41.6	42.5	43.0	43.7	43.6	44.2	44.8	46.0			
100	35.5	34.8	33.2	32.9	33.4	33.1	33.7	33.5	33.1	33.7	33.4	33.9	34.2	34.4	35.3	35.7			
105	32.6	32.1	31.0	30.6	30.8	30.7	31.4	31.7	31.4	31.6	31.2	31.4	31.4	31.6	32.2	32.6			
110	32.6	31.9	30.8	30.3	30.6	30.7	31.3	31.5	31.3	31.5	31.4	31.6	31.3	31.4	32.0	32.5			
115	31.5	30.5	29.4	29.1	29.4	29.7	30.3	30.4	30.2	30.3	30.4	30.7	30.3	30.3	30.9	31.3			
120	28.1	27.3	26.1	26.0	26.6	27.3	27.8	27.9	27.8	27.9	28.0	28.3	27.8	27.8	28.2	28.2			
125	23.3	22.3	21.5	21.4	22.1	23.0	23.6	24.0	24.1	24.4	24.4	24.7	23.7	23.6	23.7	23.4			
130	18.0	17.0	16.5	16.5	17.3	18.3	18.9	19.5	19.6	20.0	20.0	20.2	19.2	18.8	18.6	18.1			
135	12.7	11.8	11.4	11.5	12.8	13.4	14.0	14.6	14.9	15.4	15.2	15.5	14.5	13.9	13.2	12.7			
140	7.86	7.01	7.10	7.26	8.39	9.00	9.57	10.1	10.4	11.5	10.4	10.8	9.93	9.16	8.77	7.91			
145	4.68	4.57	4.48	4.77	4.75	5.38	6.18	6.71	6.87	7.18	6.13	6.96	8.22	6.19	5.88	4.44			
150	3.28	3.29	3.34	2.72	2.98	4.03	4.16	4.36	4.43	4.69	3.69	4.23	4.95	3.53	3.63	2.87			
155	3.05	3.07	3.05	2.57	2.70	2.83	3.25	4.00	3.08	4.39	2.50	2.92	3.16	2.63	2.65	2.48			
160	3.32	3.19	2.94	2.61	2.06	2.90	3.33	3.36	2.91	2.82	1.76	2.31	2.82	2.74	2.65	2.03			
165	3.16	3.20	2.84	2.63	2.08	2.43	3.39	3.44	3.05	2.97	1.83	1.74	2.62	2.70	2.83	2.51			
170	2.51	3.03	2.73	1.77	2.41	2.01	3.21	3.35	3.05	3.06	1.88	0.98	2.49	2.45	3.02	2.20			
175	1.86	1.87	1.76	1.39	2.53	2.47	2.00	2.15	1.91	1.91	1.59	0.61	1.63	2.64	2.12	1.65			
180	0.44	0.43	0.58	0.60	0.62	0.68	0.67	0.33	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68			

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C Interval: 22.5DEG
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