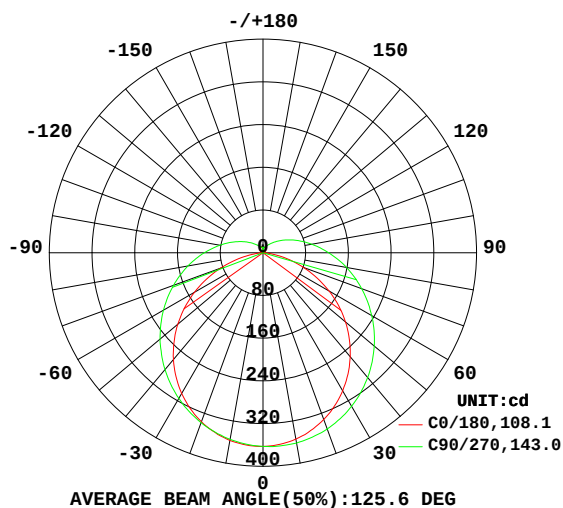


LUMINAIRE PHOTOMETRIC TEST REPORT

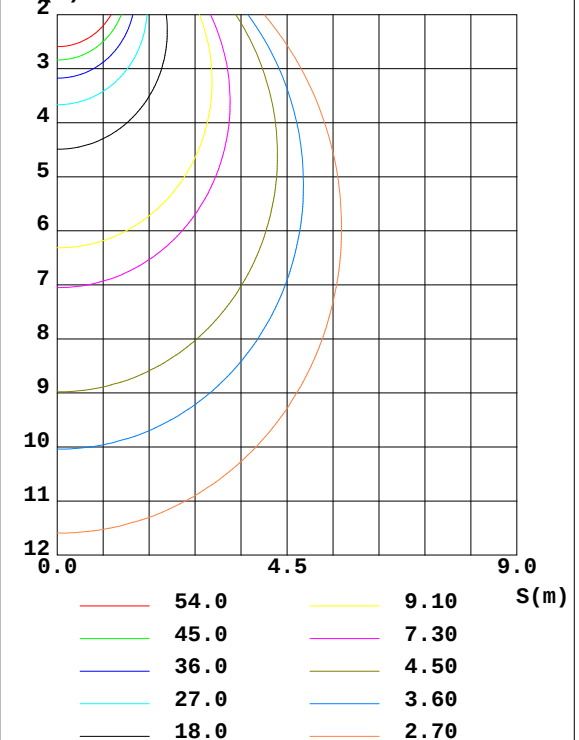
Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm		
NAME: ASD-LVF-LF-18D20AC-BK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.90 lm/W			
MODEL	ASD-LVF-LF-18D20AC-BK	I _{max} (cd)	363.5	S/MH(C0/180)	1.23
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.36
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1408.5	η UP, DN(C0-180)	5.9, 42.6
NOMINAL FLUX(lm)	1408.53	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	6.6, 44.8
LAMPS INSIDE	1	η up(%)	12.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	87.5	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: 25.2DEG
 Operators: Evan
 Test Date: 2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 42%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

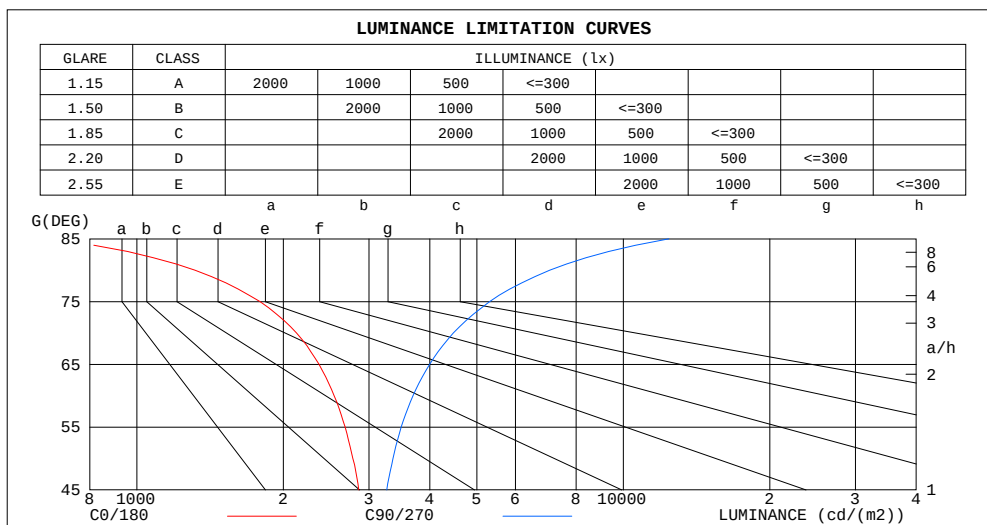
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	356.9	355.2	354.8	354.0	354.3	358.4	361.8	359.8	0- 10	34.34	34.34	2.44, 2.44
20	336.8	337.1	338.7	334.1	332.5	342.7	351.3	345.6	10- 20	98.74	133.1	9.45, 9.45
30	304.4	308.9	315.1	304.8	298.5	316.8	331.9	320.2	20- 30	151.0	284.1	20.2, 20.2
40	261.0	272.7	285.4	267.8	254.3	281.9	304.9	285.5	30- 40	185.0	469.1	33.3, 33.3
50	208.1	230.9	251.7	225.4	201.7	240.4	272.0	243.4	40- 50	197.7	666.8	47.3, 47.3
60	148.2	186.3	215.2	180.6	142.7	195.6	235.0	197.6	50- 60	189.1	855.8	60.8, 60.8
70	84.78	142.3	178.2	136.9	80.93	151.4	196.6	151.9	60- 70	162.6	1018	72.3, 72.3
80	26.63	102.8	142.8	98.06	25.98	110.3	159.0	109.5	70- 80	125.5	1144	81.2, 81.2
90	0.1480	70.32	109.9	66.34	0.0753	77.15	123.1	75.56	80- 90	88.04	1232	87.5, 87.5
100	0.7531	46.59	81.97	43.71	0.5795	52.50	92.90	50.72	90-100	60.31	1292	91.7, 91.7
110	2.722	31.28	59.25	29.29	2.374	35.80	67.87	34.21	100-110	41.04	1333	94.7, 94.7
120	4.968	21.85	41.71	20.61	4.521	24.94	48.02	23.81	110-120	27.57	1361	96.6, 96.6
130	7.183	16.22	28.94	15.46	6.635	18.08	33.14	17.45	120-130	18.35	1379	97.9, 97.9
140	9.276	13.02	20.23	12.55	8.561	13.68	22.63	13.81	130-140	12.14	1391	98.8, 98.8
150	10.91	11.31	14.81	11.02	10.05	10.47	15.68	11.95	140-150	8.037	1399	99.4, 99.4
160	12.05	10.80	11.70	10.65	11.08	9.582	11.33	11.37	150-160	5.247	1405	99.7, 99.7
170	10.34	11.23	11.64	10.45	8.422	8.519	10.04	10.44	160-170	3.049	1408	99.9, 99.9
180	7.247	5.730	0	5.816	6.959	6.430	4.906	3.256	170-180	0.8305	1409	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Evan
 Test Date: 2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 42%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Rising-Sun	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	672	12401
80	1317	7060
75	1790	5313
70	2128	4474
65	2368	3998
60	2544	3696
55	2681	3495
50	2780	3362
45	2858	3263

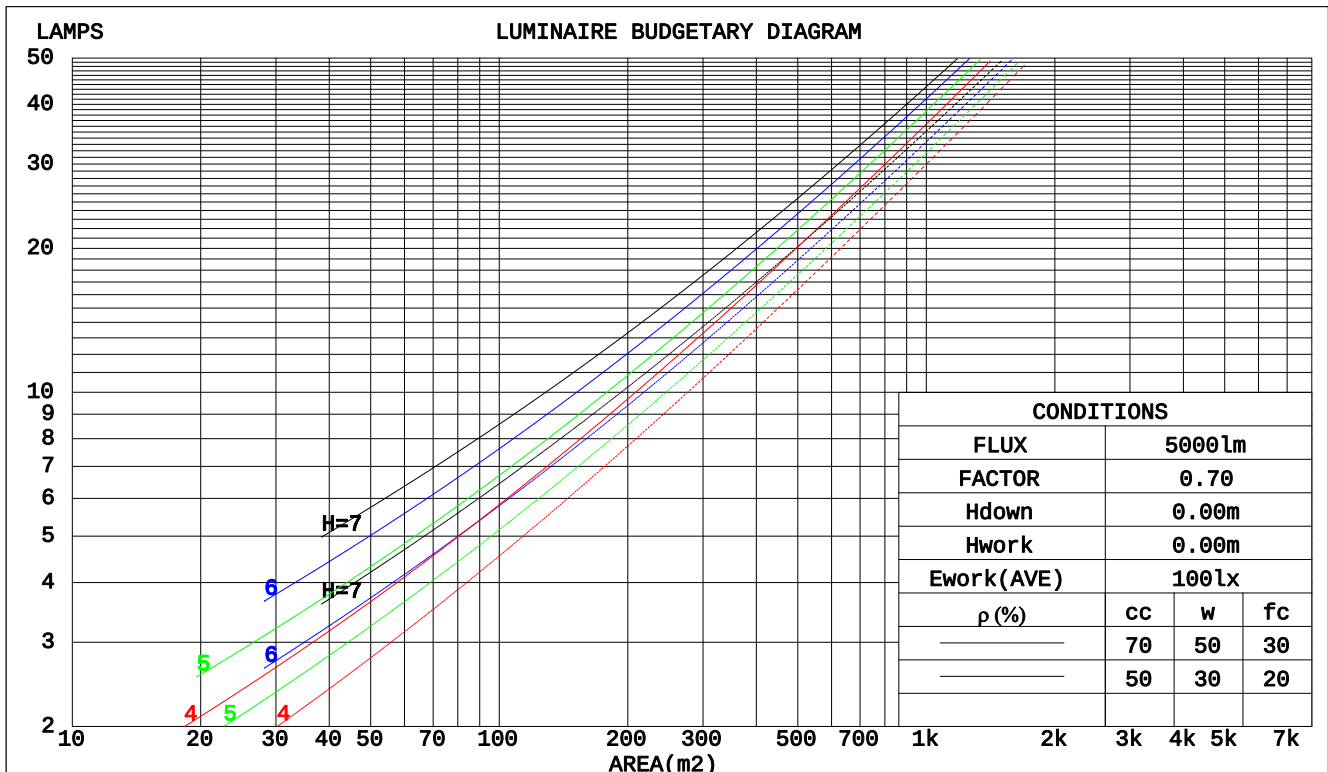
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Evan
Test Date:2022-11-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:42%
Test Distance:2.532m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Rising-Sun	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	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.91	.91	.91	.87
1.0	.98	.93	.88	.94	.90	.85	.88	.84	.80	.82	.79	.76	.76	.74	.71	.68
2.0	.84	.76	.70	.81	.74	.68	.75	.70	.65	.70	.66	.61	.65	.62	.58	.55
3.0	.73	.64	.57	.71	.63	.56	.66	.59	.53	.61	.56	.51	.57	.52	.48	.46
4.0	.64	.55	.48	.62	.54	.47	.58	.51	.45	.54	.48	.43	.51	.45	.41	.38
5.0	.57	.48	.41	.55	.47	.40	.52	.44	.39	.49	.42	.37	.45	.40	.35	.33
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.34	.44	.37	.32	.41	.35	.31	.29
7.0	.46	.37	.31	.45	.37	.31	.42	.35	.29	.40	.33	.28	.37	.32	.27	.25
8.0	.42	.34	.28	.41	.33	.27	.39	.31	.26	.36	.30	.25	.34	.29	.24	.22
9.0	.39	.30	.25	.38	.30	.24	.36	.28	.24	.34	.27	.23	.32	.26	.22	.20
10.0	.36	.28	.22	.35	.27	.22	.33	.26	.21	.31	.25	.21	.29	.24	.20	.18



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Evan
 Test Date: 2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 42%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm									
NAME: LED luminaires					TYPE:N/A			WEIGHT:N/A	
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A	
MFR.: Rising-Sun					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	.368	.209	.066	.357	.203	.065	.336	.193	.062	.317	.183	.059	.299	.174	.056	
2.0	.324	.177	.054	.314	.173	.053	.295	.164	.051	.278	.156	.049	.262	.148	.047	
3.0	.290	.154	.046	.281	.150	.045	.264	.143	.044	.249	.136	.042	.234	.130	.040	
4.0	.262	.136	.040	.254	.133	.039	.239	.127	.038	.225	.121	.036	.212	.115	.035	
5.0	.239	.122	.035	.232	.119	.035	.219	.114	.034	.206	.109	.032	.194	.104	.031	
6.0	.220	.110	.032	.213	.108	.031	.201	.103	.030	.190	.098	.029	.179	.094	.028	
7.0	.203	.101	.028	.197	.098	.028	.186	.094	.027	.176	.090	.026	.166	.086	.025	
8.0	.189	.092	.026	.184	.090	.026	.173	.087	.025	.164	.083	.024	.154	.079	.023	
9.0	.176	.085	.024	.171	.084	.023	.162	.080	.023	.153	.077	.022	.145	.073	.021	
10.0	.165	.079	.022	.161	.078	.022	.152	.074	.021	.144	.071	.020	.136	.068	.020	

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	.286	.286	.286	.244	.244	.244	.167	.167	.167	.096	.096	.096	.031	.031	.031	
1.0	.281	.252	.226	.240	.216	.195	.164	.149	.135	.095	.086	.078	.030	.028	.025	
2.0	.273	.229	.191	.234	.197	.165	.160	.136	.115	.093	.079	.068	.030	.026	.022	
3.0	.266	.212	.169	.228	.183	.146	.156	.127	.103	.090	.074	.061	.029	.024	.020	
4.0	.258	.199	.154	.221	.172	.134	.152	.120	.094	.088	.070	.056	.028	.023	.018	
5.0	.250	.189	.144	.215	.164	.125	.148	.114	.088	.086	.067	.052	.028	.022	.017	
6.0	.243	.181	.137	.209	.157	.119	.144	.110	.084	.084	.065	.050	.027	.021	.017	
7.0	.236	.174	.131	.203	.151	.114	.140	.106	.081	.081	.062	.048	.026	.020	.016	
8.0	.229	.169	.127	.197	.146	.111	.137	.103	.079	.079	.061	.047	.026	.020	.016	
9.0	.223	.164	.124	.192	.142	.108	.133	.100	.077	.078	.059	.046	.025	.019	.015	
10.0	.217	.160	.122	.187	.139	.106	.130	.098	.075	.076	.058	.045	.025	.019	.015	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Evan
Test Date:2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:42%
Test Distance:2.532m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm											
NAME: LED luminaires						TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A						DIM.: N/A			SERIAL No.:N/A		
MFR.: Rising-Sun						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		15.2	16.6	15.6	17.0	17.5	16.7	18.1	17.1	18.5	19.0
3H		16.5	17.8	17.0	18.3	18.8	19.1	20.4	19.5	20.8	21.3
4H		17.0	18.3	17.5	18.8	19.3	20.4	21.6	20.9	22.1	22.6
6H		17.3	18.5	17.8	19.0	19.5	21.8	23.0	22.3	23.5	24.0
8H		17.4	18.5	17.9	19.0	19.6	22.6	23.8	23.1	24.3	24.8
12H		17.4	18.5	17.9	19.0	19.6	23.5	24.6	24.1	25.1	25.7
4H 2H		16.1	17.3	16.6	17.8	18.3	17.2	18.5	17.7	18.9	19.5
3H		17.7	18.8	18.3	19.3	19.9	19.9	21.0	20.4	21.5	22.1
4H		18.4	19.4	19.0	19.9	20.5	21.4	22.4	21.9	22.9	23.5
6H		18.9	19.8	19.5	20.3	21.0	23.0	23.9	23.6	24.5	25.1
8H		19.0	19.8	19.6	20.4	21.1	24.0	24.8	24.6	25.4	26.0
12H		19.1	19.8	19.7	20.4	21.1	25.0	25.8	25.6	26.4	27.1
8H 4H		19.3	20.1	19.9	20.7	21.3	21.7	22.5	22.3	23.1	23.8
6H		20.1	20.8	20.7	21.4	22.1	23.7	24.4	24.3	25.0	25.7
8H		20.4	21.0	21.0	21.7	22.4	24.8	25.4	25.4	26.1	26.8
12H		20.6	21.2	21.3	21.8	22.6	26.1	26.7	26.8	27.3	28.1
12H 4H		19.5	20.3	20.1	20.9	21.6	21.7	22.5	22.3	23.1	23.8
6H		20.6	21.2	21.2	21.8	22.6	23.8	24.4	24.4	25.0	25.7
8H		21.1	21.6	21.7	22.3	23.0	25.0	25.6	25.7	26.2	26.9
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.1 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1409 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.2)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Evan
Test Date:2022-11-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:42%
Test Distance:2.532m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Rising-Sun	SUR.:N/A	Shielding Angle:N/A

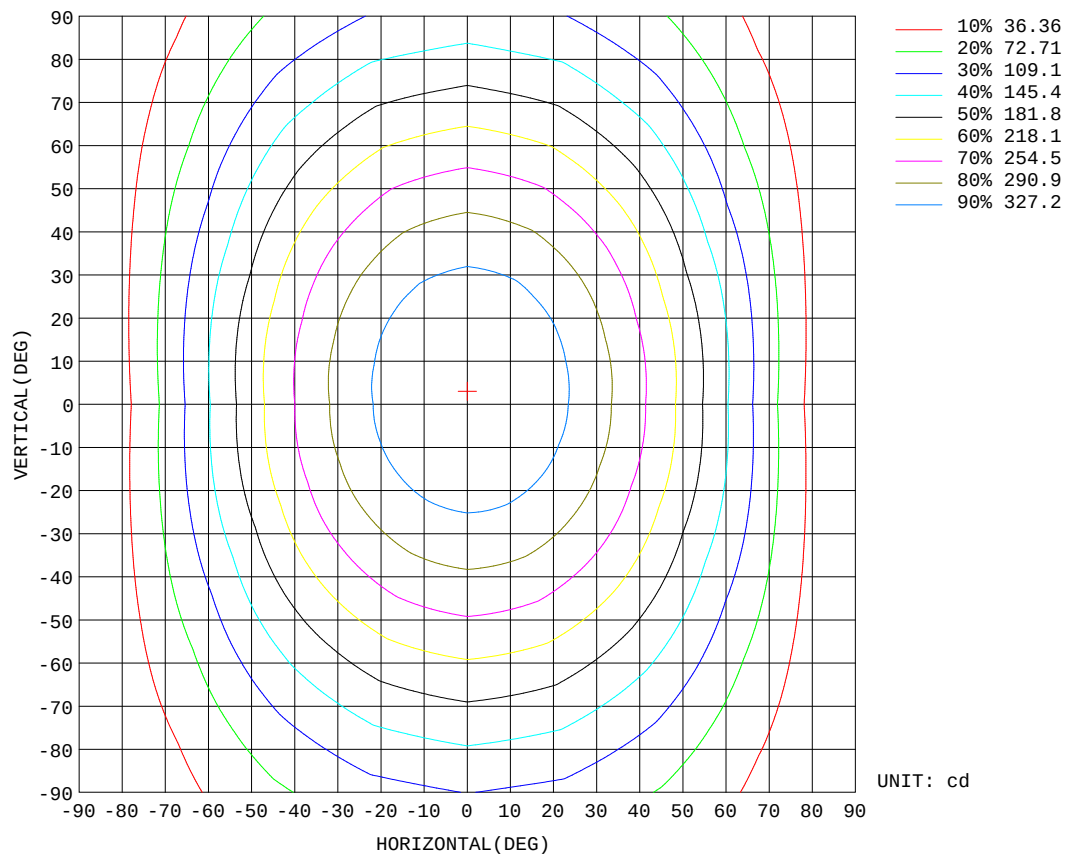
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	38	31	50	38	31	48	37	31	24
0.80	60	47	40	59	47	39	56	45	39	31
1.00	68	55	47	66	55	47	63	55	46	38
1.25	75	63	55	73	62	54	69	59	53	44
1.50	80	68	60	78	67	59	73	64	57	48
2.00	87	77	69	84	75	68	79	71	65	55
2.50	91	82	74	88	80	73	83	76	70	59
3.00	95	86	79	92	84	78	86	80	74	62
4.00	99	92	86	96	89	84	90	84	80	67
5.00	102	96	90	99	93	88	92	88	83	70
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:25.2DEG
Operators:Evan
Test Date:2022-11-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:42%
Test Distance:2.532m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Rising-Sun	SUR.:N/A	Shielding Angle:N/A

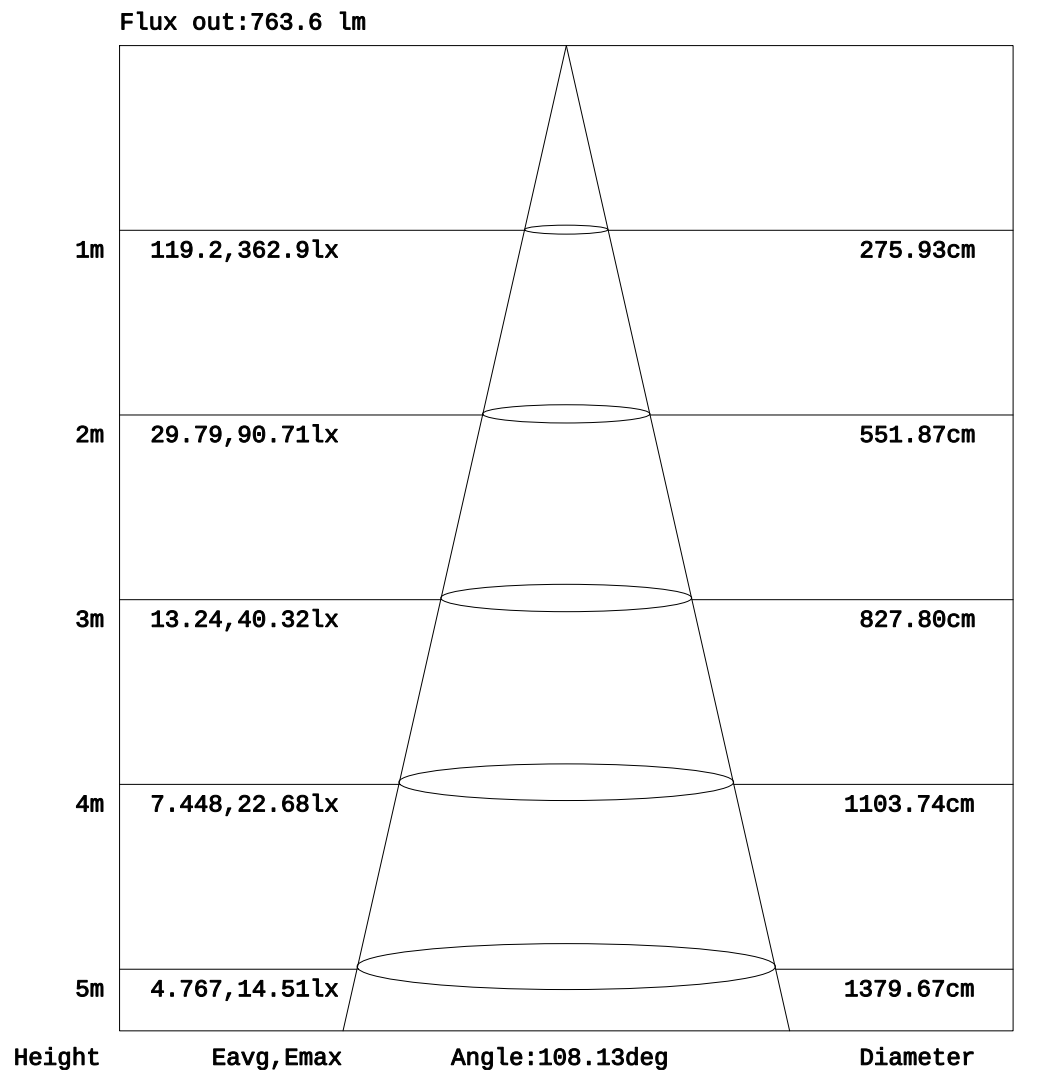


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Evan
Test Date:2022-11-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:42%
Test Distance:2.532m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Rising-Sun	SUR.:N/A	Shielding Angle:N/A



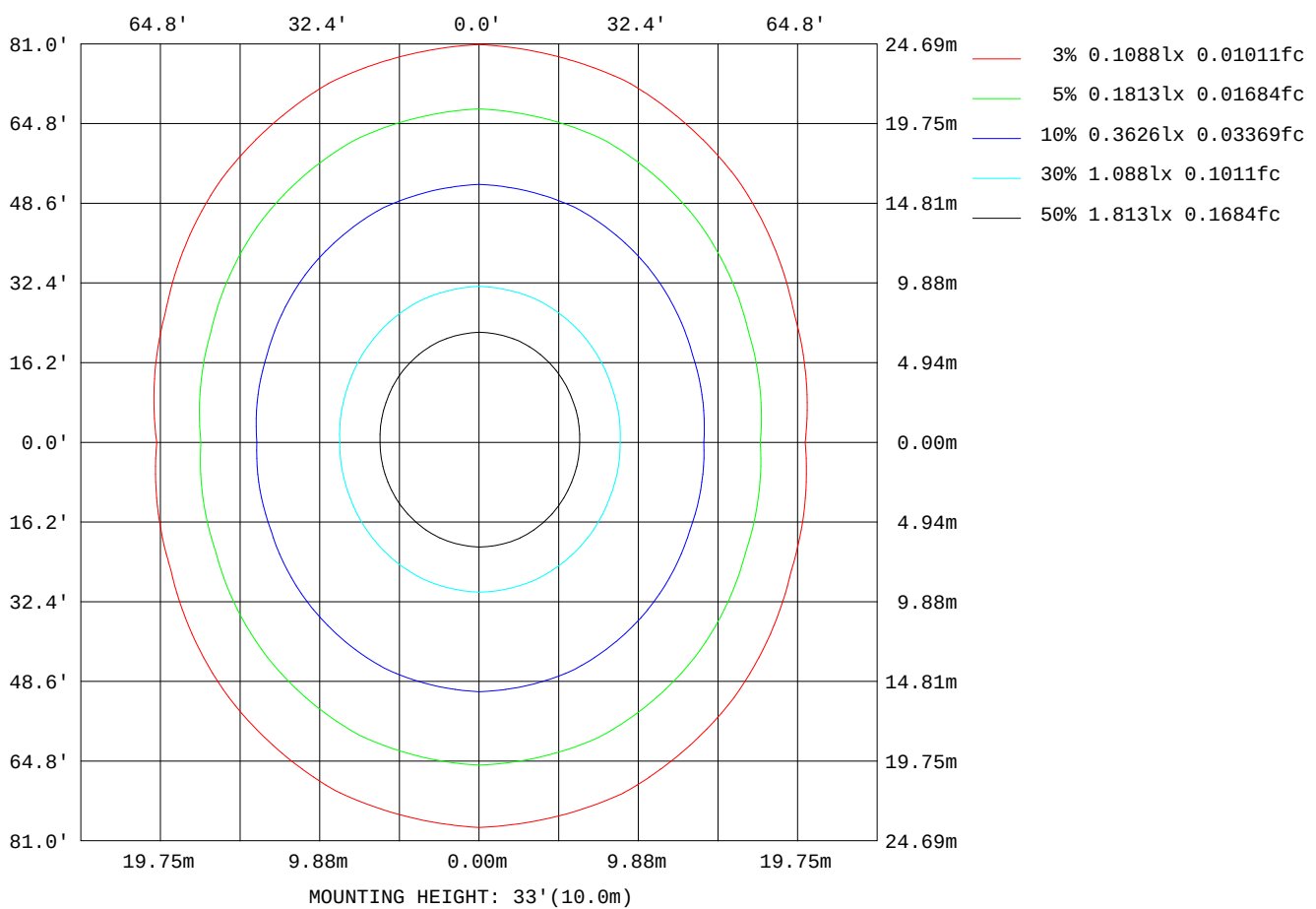
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:Evan
 Test Date:2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:42%
 Test Distance:2.532m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Rising-Sun	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Evan
Test Date: 2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 42%
Test Distance: 2.532m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm		
NAME: LED luminaires	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: Rising-Sun	SUR.:N/A	Shielding Angle:N/A

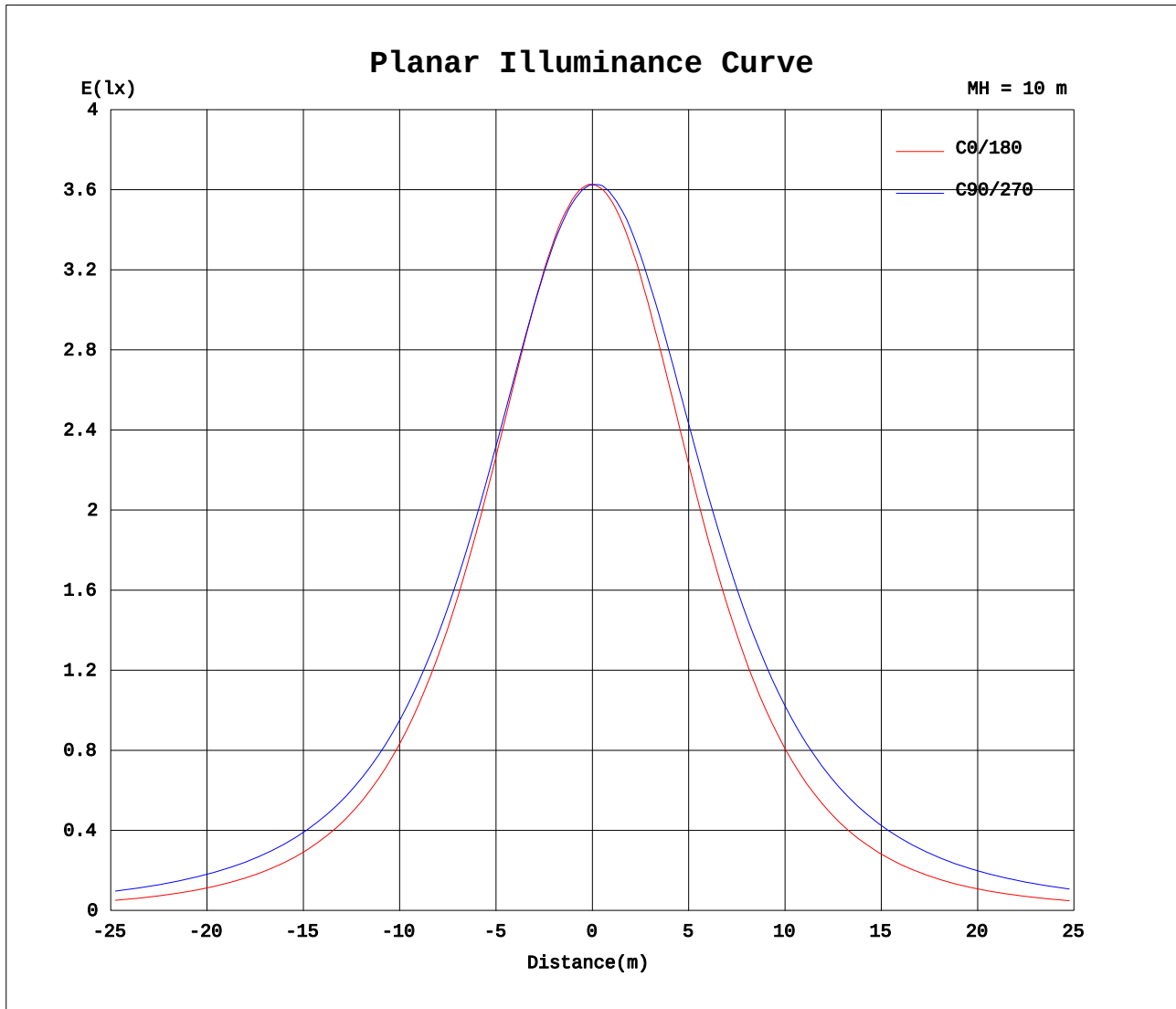
AvgL	cd/m2
L_0~180(65)av	2316
L_0~180(75)av	1756
L_0~180(85)av	672
L_90~270(65)av	4192
L_90~270(75)av	5602
L_90~270(85)av	13111
L_45(65)av	3403
L_45(75)av	4127
L_45(85)av	8642

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Evan
Test Date:2022-11-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:42%
Test Distance:2.532m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Evan
Test Date: 2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 42%
Test Distance: 2.532m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1792A P:20.15W PF:0.9368 Lamp Flux:1408.53x1 lm																	
NAME: LED luminaires									TYPE:N/A						WEIGHT:N/A		
SPEC.:N/A									DIM.: N/A						SERIAL No.:N/A		
MFR.: Rising-Sun									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	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363	363			
5	361	361	360	360	360	360	360	360	360	361	362	363	363	363	363	362			
10	357	356	355	355	355	354	354	354	354	357	358	360	362	361	360	358			
15	348	347	348	348	348	347	345	344	345	348	352	356	357	357	354	351			
20	337	336	337	339	339	337	334	332	333	337	343	349	351	350	346	340			
25	322	322	324	327	328	325	321	317	317	323	331	339	343	341	334	326			
30	304	304	309	314	315	311	305	299	299	306	317	327	332	329	320	310			
35	284	285	292	299	301	296	287	279	277	286	300	313	319	315	304	291			
40	261	263	273	283	285	279	268	257	254	265	282	298	305	300	286	269			
45	235	239	252	265	269	262	247	233	229	241	262	281	289	282	265	246			
50	208	214	231	247	252	243	225	208	202	216	240	263	272	264	243	220			
55	179	188	209	228	233	224	203	181	173	190	218	243	254	245	221	193			
60	148	160	186	208	215	204	181	154	143	163	196	224	235	225	198	165			
65	117	133	164	189	197	185	158	127	112	135	173	204	216	205	174	137			
70	84.8	106	142	169	178	166	137	101	80.9	109	151	184	197	184	152	109			
75	54.0	81.7	122	151	160	147	117	76.7	51.9	84.5	130	165	178	165	130	83.4			
80	26.6	60.0	103	133	143	130	98.1	55.4	26.0	63.0	110	146	159	146	110	60.7			
85	6.83	41.9	85.6	116	126	113	81.1	37.9	6.82	45.3	92.8	127	140	127	91.5	42.3			
90	0.15	28.7	70.3	100	110	97.3	66.3	25.3	0.08	31.7	77.1	111	123	110	75.6	28.6			
95	0.24	19.8	57.2	85.9	95.3	83.3	53.8	17.1	0.18	22.4	63.8	95.7	107	94.9	61.9	19.6			
100	0.75	14.3	46.6	73.1	82.0	70.9	43.7	12.2	0.58	16.5	52.5	81.9	92.9	81.1	50.7	14.1			
105	1.66	11.2	38.1	61.8	70.1	59.8	35.6	9.63	1.39	12.9	43.3	69.9	79.7	68.9	41.5	11.1			
110	2.72	9.47	31.3	51.7	59.3	50.2	29.3	8.33	2.37	10.7	35.8	59.0	67.9	58.2	34.2	9.44			
115	3.83	8.65	26.0	43.3	49.7	42.0	24.3	7.74	3.44	9.52	29.7	49.6	57.3	48.8	28.4	8.58			
120	4.97	8.26	21.8	36.2	41.7	35.2	20.6	7.55	4.52	8.83	24.9	41.5	48.0	40.8	23.8	8.16			
125	6.09	8.13	18.6	30.3	34.8	29.4	17.7	7.51	5.59	8.46	21.1	34.6	40.0	34.0	20.2	7.97			
130	7.18	8.17	16.2	25.3	28.9	24.7	15.5	7.64	6.63	8.26	18.1	28.7	33.1	28.3	17.5	7.93			
135	8.25	8.32	14.4	21.3	24.1	20.8	14.0	7.86	7.61	8.12	15.6	23.9	27.4	23.7	15.3	8.01			
140	9.28	8.50	13.0	18.2	20.2	17.8	12.6	8.11	8.56	7.99	13.7	19.8	22.6	20.0	13.8	8.16			
145	10.2	8.95	12.0	15.9	17.2	15.4	11.6	8.61	9.34	8.21	11.9	16.5	18.8	17.1	12.8	8.61			
150	10.9	9.73	11.3	13.8	14.8	13.6	11.0	9.41	10.1	9.39	10.5	13.8	15.7	14.9	11.9	9.24			
155	11.5	10.6	10.8	12.4	13.0	12.2	10.5	10.1	10.6	9.64	9.79	11.7	13.3	13.1	11.3	9.80			
160	12.1	11.1	10.8	11.3	11.7	11.2	10.7	10.7	11.1	10.6	9.58	10.3	11.3	11.5	11.4	10.2			
165	12.0	11.7	11.4	11.2	11.1	11.1	11.1	10.9	10.4	9.75	9.68	9.92	10.5	10.6	10.6	10.5			
170	10.3	11.8	11.2	11.6	11.6	10.8	10.5	9.41	8.42	8.29	8.52	10.3	10.0	10.6	10.4	10.3			
175	7.87	8.25	10.4	9.90	9.29	9.22	6.99	6.38	6.00	6.04	5.85	6.15	7.09	8.45	8.96	9.30			
180	7.25	6.39	5.73	4.27	0.00	4.46	5.82	6.44	6.96	6.93	6.43	5.25	4.91	1.60	3.26	6.03			

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C Interval: 22.5DEG
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