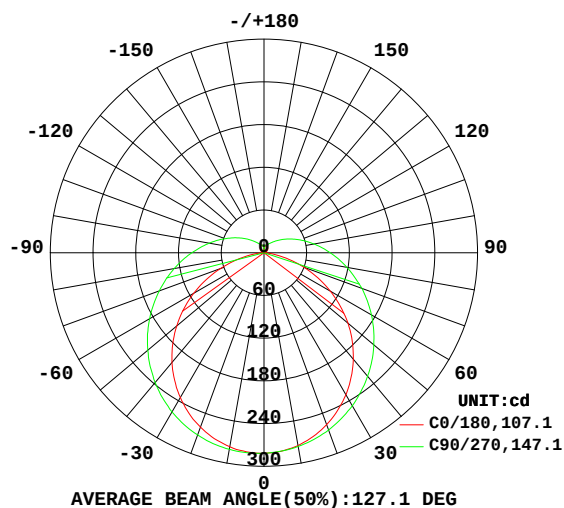


LUMINAIRE PHOTOMETRIC TEST REPORT

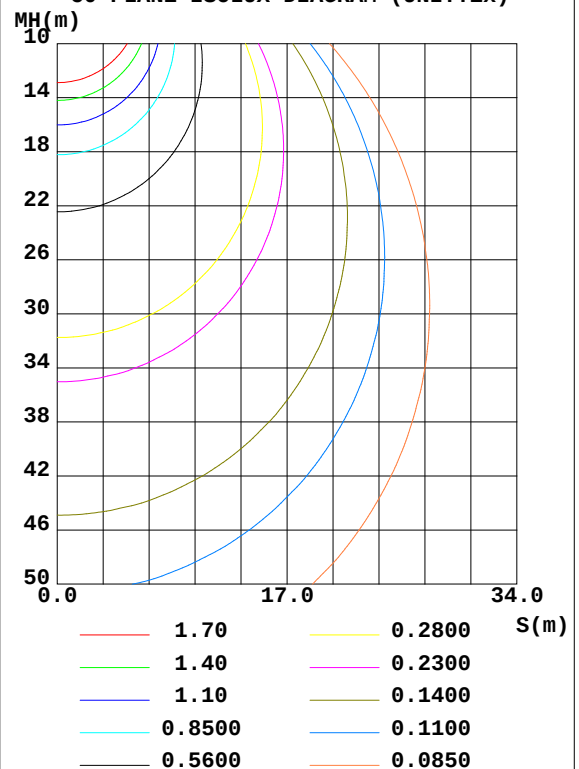
Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 lm		
NAME: ASD-LOFT-WS-12D15BK	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.30 lm/W			
MODEL	ASD-LOFT-WS-12D15BK	Imax(cd)	282.8	S/MH(C0/180)	1.22
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1124.5	η UP, DN(C0-180)	7.2, 44.0
NOMINAL FLUX(lm)	1124.48	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	6.8, 42.0
LAMPS INSIDE	1	η up(%)	14.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	86.0	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:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 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	276.7	279.5	280.4	278.4	275.0	275.3	276.3	276.4	0- 10	26.68	26.68	2.37, 2.37
20	260.8	267.8	272.4	265.9	257.1	260.2	265.0	262.2	10- 20	76.69	103.4	9.19, 9.19
30	234.9	248.2	258.3	245.1	230.2	237.8	248.1	240.4	20- 30	117.3	220.6	19.6, 19.6
40	201.1	221.2	237.9	218.2	195.2	209.5	226.3	212.5	30- 40	143.8	364.5	32.4, 32.4
50	160.2	189.4	213.0	186.3	154.1	177.5	201.5	181.0	40- 50	154.1	518.6	46.1, 46.1
60	114.1	154.9	185.5	152.2	107.4	143.6	174.3	147.3	50- 60	148.0	666.6	59.3, 59.3
70	65.20	120.6	156.6	118.4	59.60	110.0	146.4	112.8	60- 70	128.2	794.8	70.7, 70.7
80	20.68	89.32	128.1	87.86	16.97	80.67	118.2	82.91	70- 80	100.2	894.9	79.6, 79.6
90	0.0831	63.13	101.4	62.67	0.0421	56.62	93.03	58.20	80- 90	72.05	967.0	86, 86
100	0.5806	43.70	78.26	43.79	0.6863	39.41	71.49	40.25	90-100	51.00	1018	90.5, 90.5
110	2.356	30.32	58.11	30.69	2.526	27.75	53.25	28.13	100-110	35.87	1054	93.7, 93.7
120	4.540	21.54	42.11	21.96	4.644	20.33	38.78	20.42	110-120	24.88	1079	95.9, 95.9
130	6.650	16.10	29.76	16.40	6.679	15.70	27.90	15.67	120-130	17.09	1096	97.5, 97.5
140	8.582	12.85	20.79	13.06	8.470	12.75	20.05	13.19	130-140	11.65	1107	98.5, 98.5
150	10.13	11.09	15.07	11.23	10.02	10.96	15.03	11.97	140-150	7.907	1115	99.2, 99.2
160	11.26	10.51	11.86	10.29	10.85	10.23	12.02	11.31	150-160	5.254	1121	99.7, 99.7
170	9.944	10.03	10.73	9.733	8.575	10.00	10.78	10.31	160-170	3.052	1124	99.9, 99.9
180	4.514	3.096	6.356	1.883	4.827	4.223	2.634	2.582	170-180	0.8012	1124	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 441.3 lm

%lum = 39.2%

%lamp = 39.2%

Conical surface Flux(120deg): 666.58 lm

%lum = 59.3%

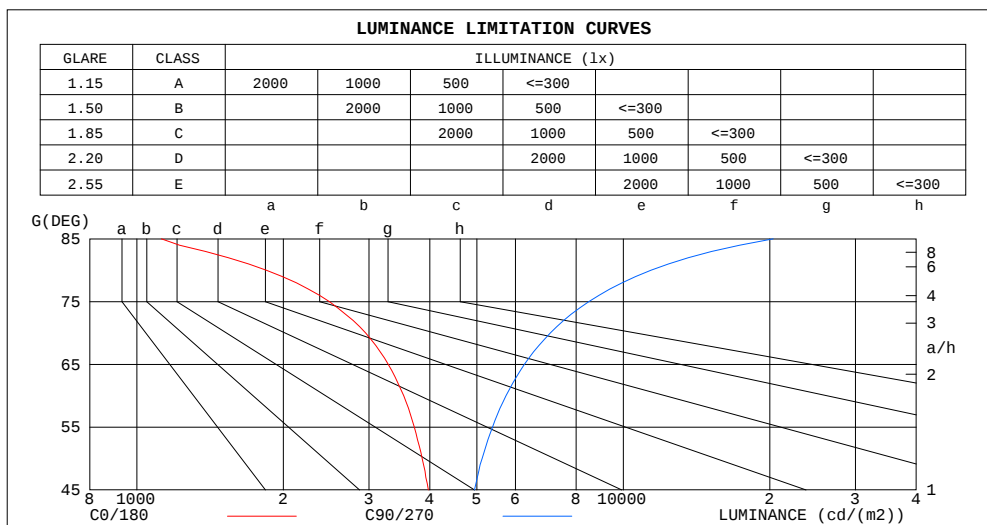
%lamp = 59.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3DEG
 Operators: Carl
 Test Date: 2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 48%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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	1123	20327
80	1845	11406
75	2485	8495
70	2953	7079
65	3287	6260
60	3536	5737
55	3718	5385
50	3860	5126
45	3974	4943

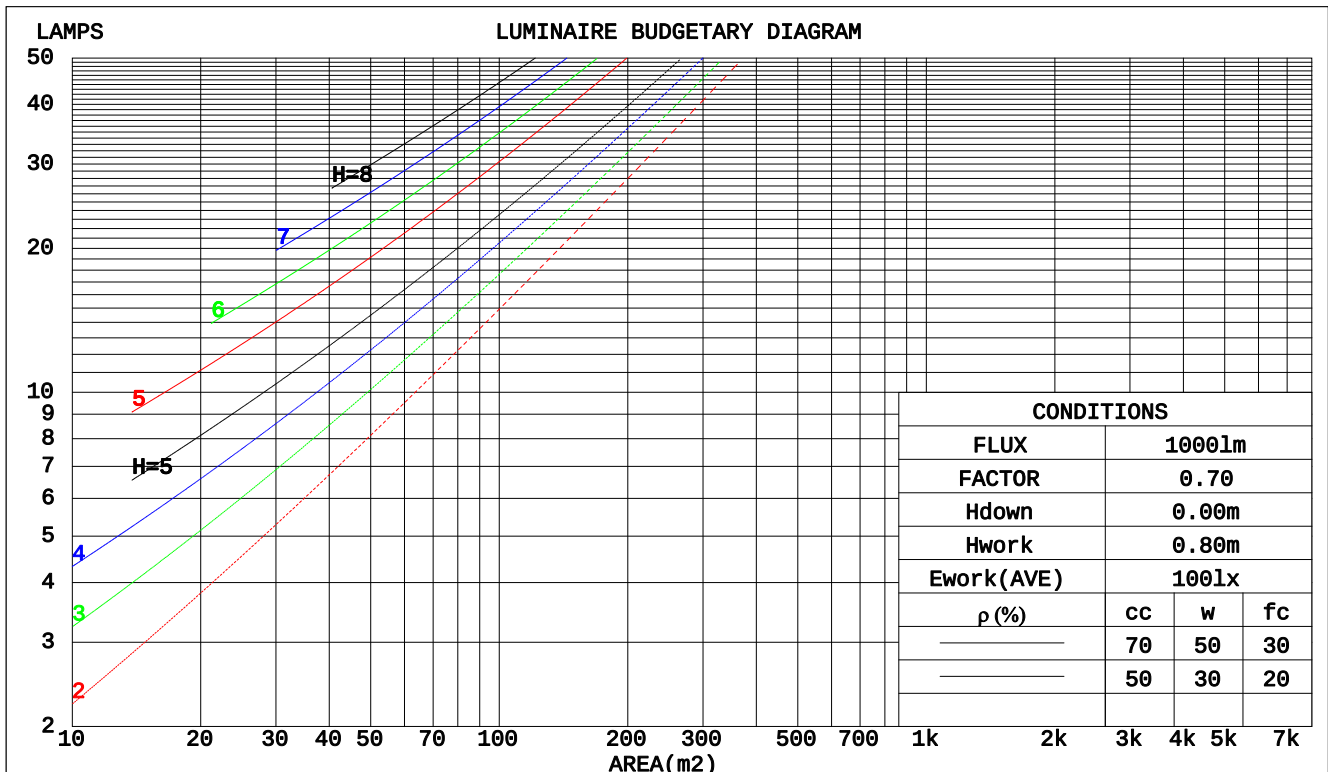
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3DEG
Operators:Carl
Test Date:2022-12-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:48%
Test Distance:2.532m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.86
1.0	.97	.92	.88	.94	.89	.85	.87	.83	.80	.80	.77	.75	.75	.72	.70	.67
2.0	.84	.76	.70	.81	.74	.68	.75	.69	.64	.69	.65	.60	.64	.60	.57	.54
3.0	.73	.64	.57	.70	.62	.55	.65	.58	.53	.60	.55	.50	.56	.51	.47	.45
4.0	.64	.55	.48	.62	.53	.47	.57	.50	.44	.53	.47	.42	.50	.45	.40	.37
5.0	.57	.48	.41	.55	.46	.40	.51	.44	.38	.48	.41	.36	.45	.39	.35	.32
6.0	.51	.42	.35	.49	.41	.34	.46	.39	.33	.43	.37	.32	.40	.35	.30	.28
7.0	.46	.37	.31	.45	.36	.30	.42	.34	.29	.39	.33	.28	.37	.31	.27	.24
8.0	.42	.33	.27	.41	.33	.27	.38	.31	.26	.36	.29	.25	.34	.28	.24	.22
9.0	.38	.30	.24	.37	.29	.24	.35	.28	.23	.33	.27	.22	.31	.26	.21	.19
10.0	.35	.27	.22	.34	.27	.22	.32	.26	.21	.31	.24	.20	.29	.23	.19	.18



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3DEG
 Operators: Carl
 Test Date: 2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity: 48%
 Test Distance: 2.532m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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	.369	.210	.067	.358	.204	.065	.336	.193	.062	.317	.183	.059	.298	.173	.056	
2.0	.324	.178	.055	.314	.173	.053	.295	.164	.051	.277	.155	.049	.260	.147	.046	
3.0	.290	.154	.046	.281	.150	.045	.263	.143	.043	.247	.136	.042	.232	.129	.040	
4.0	.262	.136	.040	.254	.133	.039	.238	.126	.038	.224	.120	.036	.210	.114	.035	
5.0	.239	.122	.035	.232	.119	.035	.218	.113	.033	.204	.108	.032	.192	.103	.031	
6.0	.220	.110	.032	.213	.108	.031	.200	.103	.030	.188	.098	.029	.177	.093	.028	
7.0	.203	.100	.028	.197	.098	.028	.185	.094	.027	.174	.089	.026	.164	.085	.025	
8.0	.189	.092	.026	.183	.090	.025	.172	.086	.025	.162	.082	.024	.152	.078	.023	
9.0	.176	.085	.024	.171	.083	.023	.161	.080	.023	.152	.076	.022	.143	.073	.021	
10.0	.165	.079	.022	.160	.077	.022	.151	.074	.021	.142	.071	.020	.134	.068	.019	

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	.297	.297	.297	.254	.254	.254	.173	.173	.173	.100	.100	.100	.032	.032	.032	
1.0	.292	.263	.237	.250	.226	.204	.171	.155	.141	.098	.090	.082	.032	.029	.027	
2.0	.285	.240	.202	.244	.207	.175	.167	.143	.122	.096	.083	.072	.031	.027	.023	
3.0	.277	.223	.180	.238	.193	.156	.163	.134	.110	.094	.078	.065	.030	.025	.021	
4.0	.270	.211	.166	.231	.182	.144	.159	.127	.101	.092	.074	.060	.030	.024	.020	
5.0	.262	.201	.156	.225	.174	.135	.155	.121	.096	.090	.071	.057	.029	.023	.019	
6.0	.254	.193	.148	.219	.167	.129	.151	.117	.091	.088	.069	.054	.028	.022	.018	
7.0	.247	.186	.143	.213	.161	.125	.147	.113	.088	.085	.067	.053	.028	.022	.017	
8.0	.241	.180	.139	.207	.156	.121	.143	.110	.086	.083	.065	.051	.027	.021	.017	
9.0	.235	.176	.136	.202	.152	.118	.140	.107	.084	.082	.063	.050	.026	.021	.017	
10.0	.229	.171	.133	.197	.149	.116	.137	.105	.083	.080	.062	.049	.026	.020	.016	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3DEG
Operators:Carl
Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:48%
Test Distance:2.532m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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		16.4	17.8	16.8	18.2	18.7	18.3	19.7	18.8	20.2	20.6
	3H	17.7	19.0	18.2	19.5	20.0	20.8	22.1	21.3	22.6	23.1
	4H	18.2	19.5	18.7	20.0	20.5	22.2	23.4	22.7	23.9	24.5
	6H	18.5	19.7	19.1	20.2	20.8	23.7	24.9	24.2	25.4	25.9
	8H	18.6	19.7	19.1	20.2	20.8	24.5	25.7	25.1	26.2	26.8
	12H	18.6	19.7	19.1	20.2	20.8	25.5	26.6	26.0	27.1	27.7
4H	2H	17.4	18.6	17.9	19.1	19.7	18.8	20.1	19.4	20.6	21.1
	3H	19.0	20.1	19.6	20.7	21.3	21.6	22.7	22.1	23.2	23.8
	4H	19.7	20.7	20.3	21.3	21.9	23.2	24.2	23.7	24.7	25.3
	6H	20.2	21.1	20.8	21.7	22.3	24.9	25.8	25.5	26.4	27.0
	8H	20.3	21.2	20.9	21.8	22.4	25.9	26.7	26.5	27.3	28.0
	12H	20.4	21.2	21.0	21.8	22.5	27.0	27.7	27.6	28.3	29.0
8H	4H	20.7	21.5	21.3	22.1	22.8	23.5	24.3	24.1	24.9	25.6
	6H	21.5	22.2	22.2	22.9	23.6	25.5	26.2	26.2	26.8	27.6
	8H	21.9	22.5	22.5	23.1	23.9	26.7	27.3	27.3	28.0	28.7
	12H	22.1	22.6	22.8	23.3	24.1	28.1	28.6	28.7	29.3	30.0
12H	4H	21.0	21.8	21.6	22.4	23.1	23.5	24.2	24.1	24.9	25.6
	6H	22.1	22.7	22.7	23.4	24.1	25.6	26.2	26.3	26.9	27.6
	8H	22.6	23.1	23.3	23.8	24.6	26.9	27.4	27.6	28.1	28.9
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	+ 0.2 / - 0.4					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 1124 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.4)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3DEG
Operators:Carl
Test Date:2022-12-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:48%
Test Distance:2.532m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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

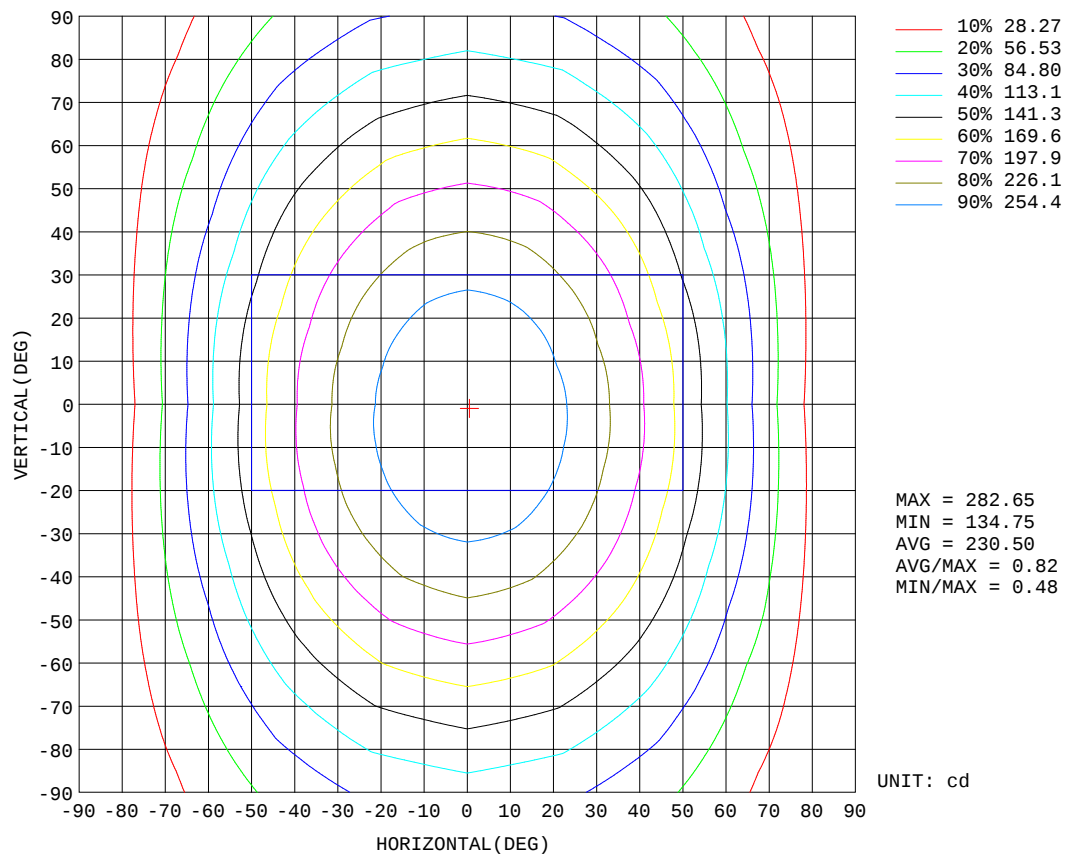
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	38	31	49	37	30	47	37	30	23
0.80	59	47	39	58	46	38	55	45	38	30
1.00	67	55	47	65	54	46	62	54	45	37
1.25	74	62	54	72	61	53	68	59	52	43
1.50	79	68	59	77	66	58	72	63	57	47
2.00	86	76	68	84	74	67	78	70	64	53
2.50	91	81	74	88	79	72	82	75	69	57
3.00	94	86	79	91	83	77	85	79	73	61
4.00	99	91	85	95	89	83	89	83	79	66
5.00	102	95	90	98	92	87	91	87	82	69
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:24.3DEG
Operators:Carl
Test Date:2022-12-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:48%
Test Distance:2.532m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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

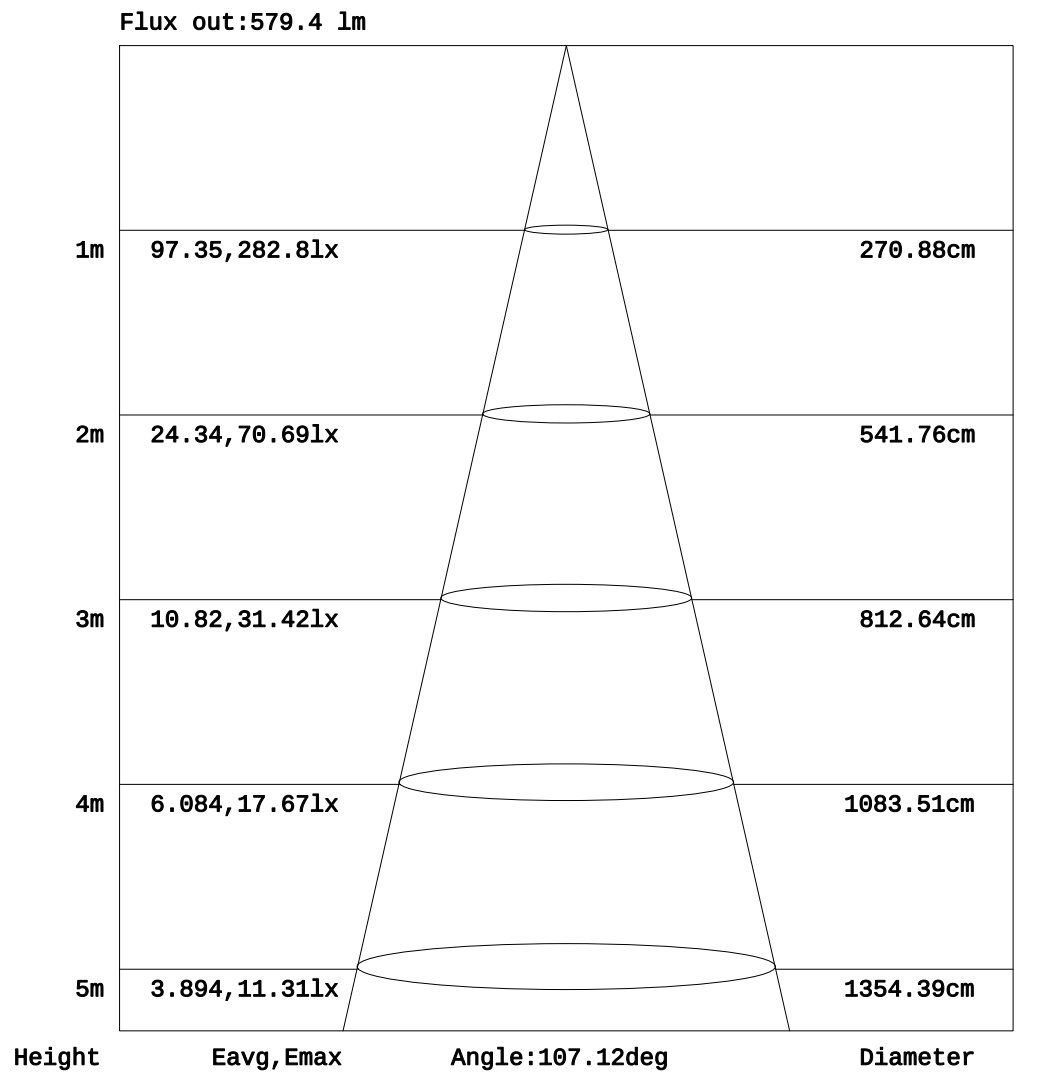


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3DEG
Operators:Carl
Test Date:2022-12-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:48%
Test Distance:2.532m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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



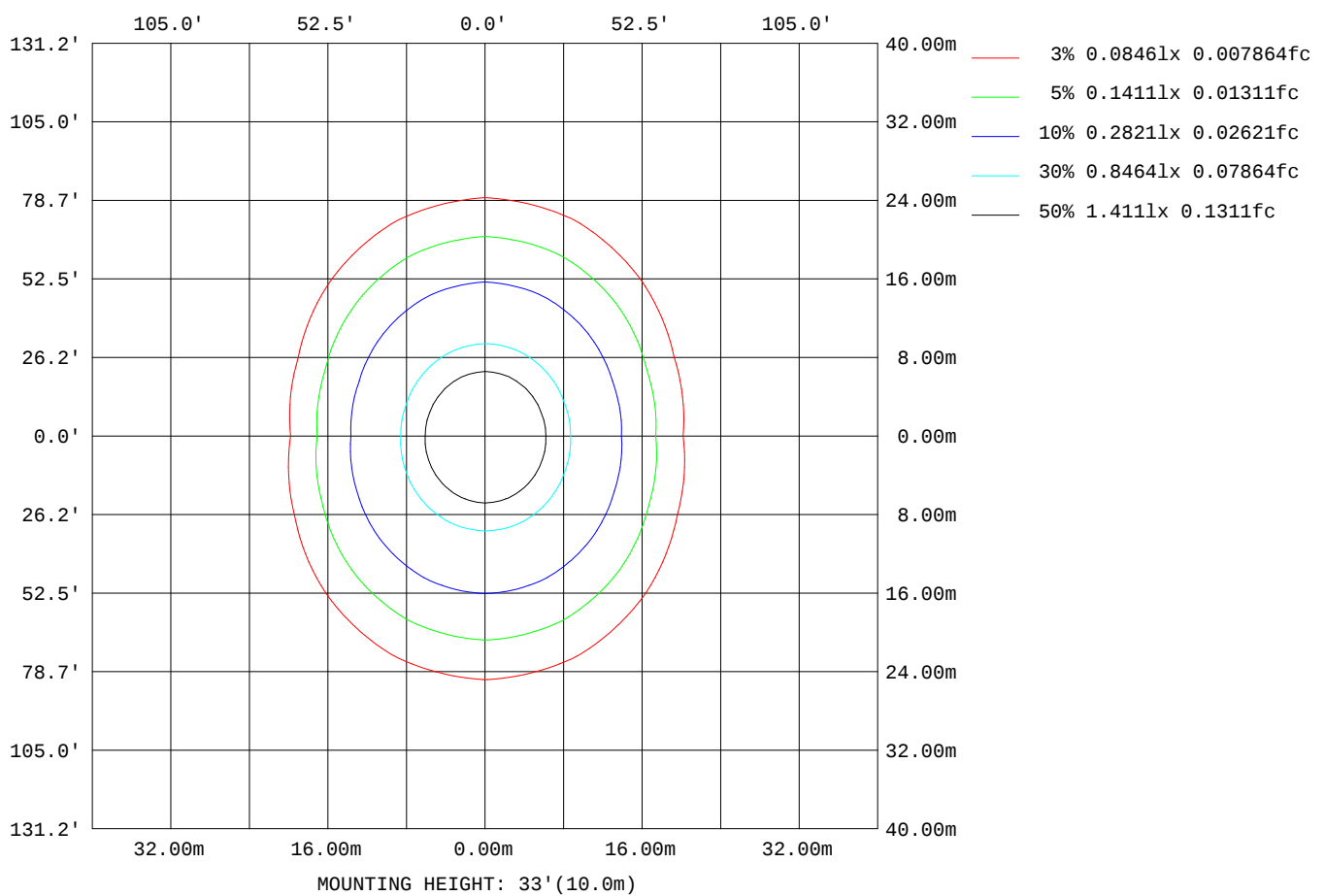
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3DEG
 Operators:Carl
 Test Date:2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
 Humidity:48%
 Test Distance:2.532m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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: 24.3DEG
Operators: Carl
Test Date: 2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 48%
Test Distance: 2.532m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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

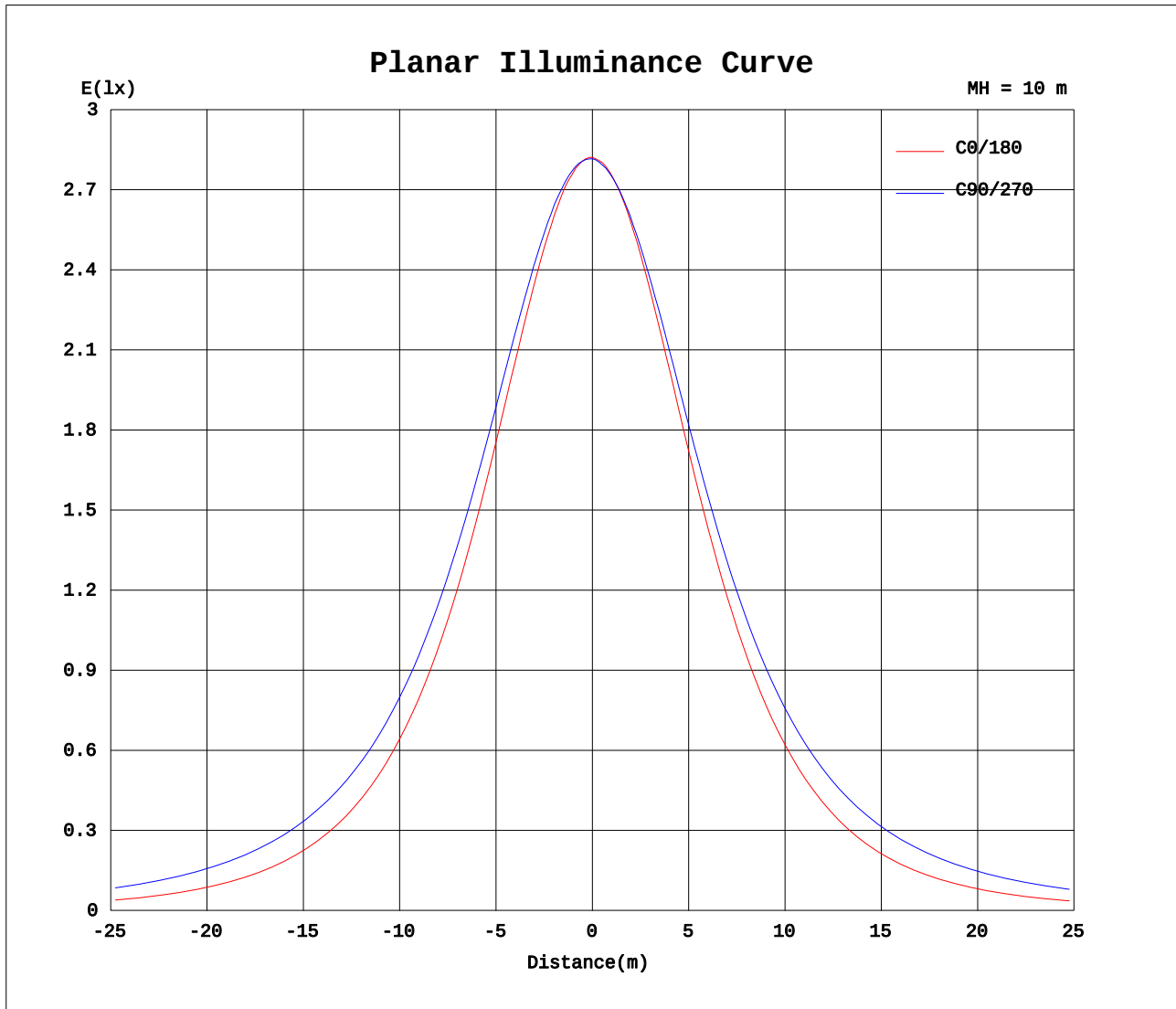
AvgL	cd/m2
L_0~180(65)av	3169
L_0~180(75)av	2339
L_0~180(85)av	887
L_90~270(65)av	6063
L_90~270(75)av	8181
L_90~270(85)av	19518
L_45(65)av	4834
L_45(75)av	5962
L_45(85)av	12751

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.3DEG
Operators:Carl
Test Date:2022-12-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity:48%
Test Distance:2.532m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.3DEG
Operators: Carl
Test Date: 2022-12-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.351
Humidity: 48%
Test Distance: 2.532m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.1333A P:15.34W PF:0.9582 Lamp Flux:1124.48x1 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	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282			
5	281	281	282	282	282	282	282	280	280	280	280	280	280	280	280	280			
10	277	278	279	280	280	280	278	276	275	275	275	276	276	276	276	276			
15	270	272	275	277	277	276	273	270	267	267	269	270	271	271	271	269			
20	261	264	268	271	272	271	266	261	257	258	260	263	265	264	262	260			
25	249	253	259	264	266	263	256	250	244	245	250	255	257	256	252	248			
30	235	240	248	255	258	254	245	237	230	232	238	244	248	246	240	235			
35	219	225	235	245	249	243	233	221	213	216	224	233	238	234	227	219			
40	201	208	221	233	238	232	218	204	195	199	210	221	226	222	212	203			
45	181	190	206	220	226	219	203	186	175	180	194	208	214	210	197	184			
50	160	170	189	206	213	205	186	167	154	161	178	194	201	196	181	165			
55	138	150	172	192	200	190	170	146	131	140	161	179	188	181	164	145			
60	114	129	155	177	185	176	152	126	107	119	144	165	174	167	147	123			
65	89.7	108	138	162	171	160	135	104	83.5	98.2	126	150	160	152	129	102			
70	65.2	86.8	121	147	157	145	118	84.2	59.6	78.3	110	135	146	137	113	82.1			
75	41.5	67.4	104	132	142	131	103	65.4	36.7	60.1	94.8	121	132	122	97.2	63.0			
80	20.7	49.7	89.3	118	128	117	87.9	48.5	17.0	44.1	80.7	107	118	109	82.9	46.6			
85	6.32	35.6	75.2	104	115	103	74.6	35.0	3.68	31.2	67.9	94.7	105	95.9	69.6	33.0			
90	0.08	24.9	63.1	91.1	101	90.7	62.7	25.0	0.04	21.8	56.6	82.8	93.0	83.9	58.2	22.9			
95	0.18	17.7	52.5	79.5	89.5	79.2	52.4	18.2	0.19	15.7	47.3	72.1	81.9	72.8	48.4	16.4			
100	0.58	13.1	43.7	68.9	78.3	68.7	43.8	13.8	0.69	11.9	39.4	62.4	71.5	63.1	40.3	12.3			
105	1.33	10.4	36.3	58.9	67.9	58.9	36.7	11.2	1.53	9.84	32.9	53.6	62.0	54.2	33.5	9.92			
110	2.36	8.97	30.3	50.2	58.1	50.4	30.7	9.60	2.53	8.77	27.7	45.9	53.2	46.2	28.1	8.73			
115	3.44	8.23	25.5	42.7	49.7	42.9	26.0	8.72	3.59	8.31	23.6	39.1	45.6	39.4	23.8	8.25			
120	4.54	7.89	21.5	36.1	42.1	36.3	22.0	8.27	4.64	8.15	20.3	33.3	38.8	33.5	20.4	8.09			
125	5.62	7.80	18.5	30.4	35.5	30.6	18.9	8.13	5.68	8.20	17.7	28.4	32.9	28.4	17.7	8.15			
130	6.65	7.86	16.1	25.6	29.8	25.8	16.4	8.15	6.68	8.38	15.7	24.2	27.9	24.2	15.7	8.37			
135	7.63	7.98	14.3	21.6	24.8	21.8	14.5	8.11	7.61	8.65	14.1	20.7	23.6	20.7	14.2	8.65			
140	8.58	8.22	12.9	18.3	20.8	18.4	13.1	8.22	8.47	8.91	12.7	17.7	20.0	18.0	13.2	8.96			
145	9.37	8.69	11.9	15.8	17.6	15.8	12.0	8.60	9.28	9.09	11.6	15.2	17.2	15.9	12.4	9.39			
150	10.1	9.18	11.1	13.8	15.1	13.9	11.2	9.15	10.0	9.62	11.0	13.3	15.0	14.3	12.0	9.68			
155	10.8	9.81	10.9	12.4	13.3	12.6	10.6	9.56	10.5	10.3	10.4	12.0	13.1	13.0	11.7	9.96			
160	11.3	10.3	10.5	11.4	11.9	11.4	10.3	9.76	10.8	11.0	10.2	11.2	12.0	12.1	11.3	10.3			
165	11.2	10.5	10.8	11.0	11.0	10.8	10.4	9.92	11.0	11.3	10.2	10.9	11.4	11.4	11.0	10.2			
170	9.94	10.6	10.0	10.3	10.7	10.2	9.73	9.05	8.58	8.67	10.00	10.1	10.8	11.3	10.3	9.91			
175	7.25	7.17	8.47	8.15	8.00	8.35	6.87	6.54	6.02	6.05	6.67	7.59	9.36	8.91	8.76	8.67			
180	4.51	4.15	3.10	1.64	6.36	2.69	1.88	3.10	4.83	4.83	4.22	3.64	2.63	0.70	2.58	3.63			

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C Interval: 22.5DEG
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