

Luminaire Photograph



Light Output Ratio:	77.7%	
Luminaire Power:	8.297 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-8-7

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084C 50R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

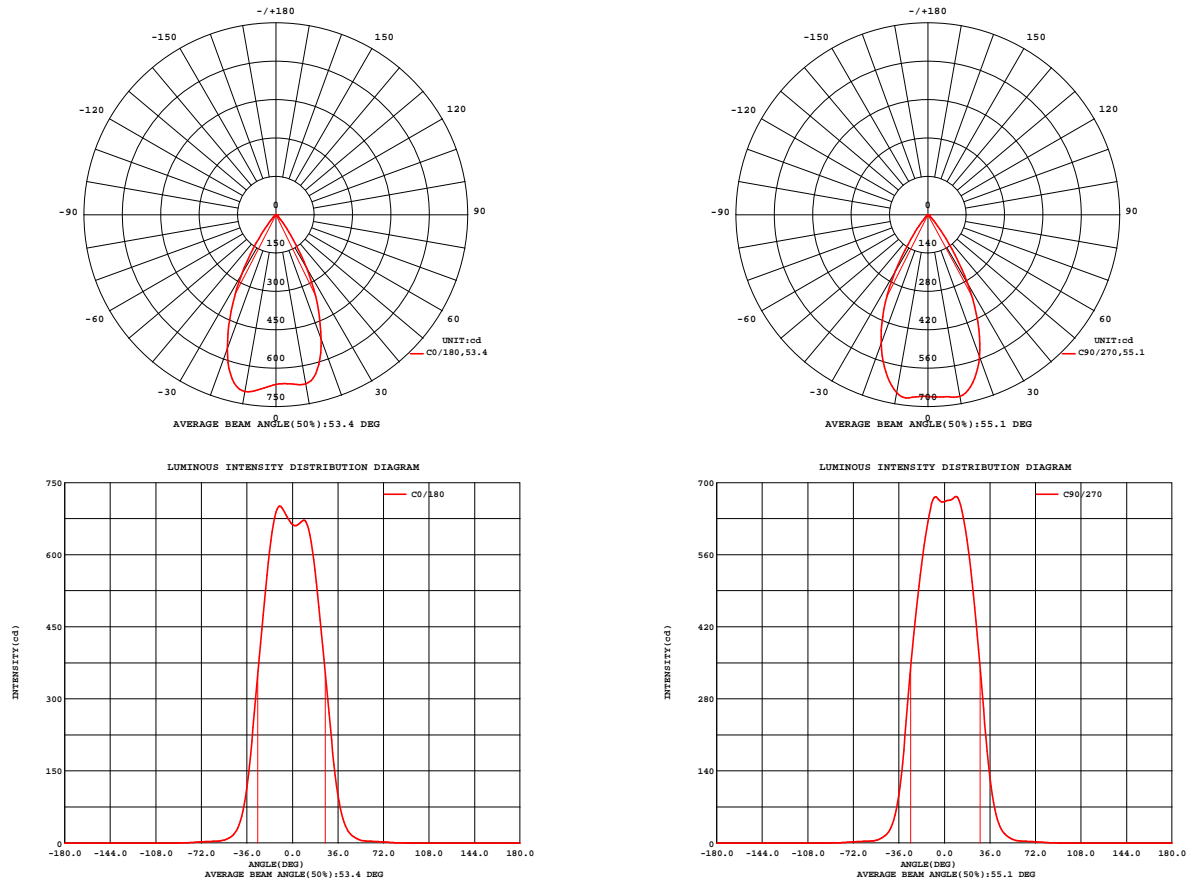


Fig. C0/C180

Fig. C90/C270

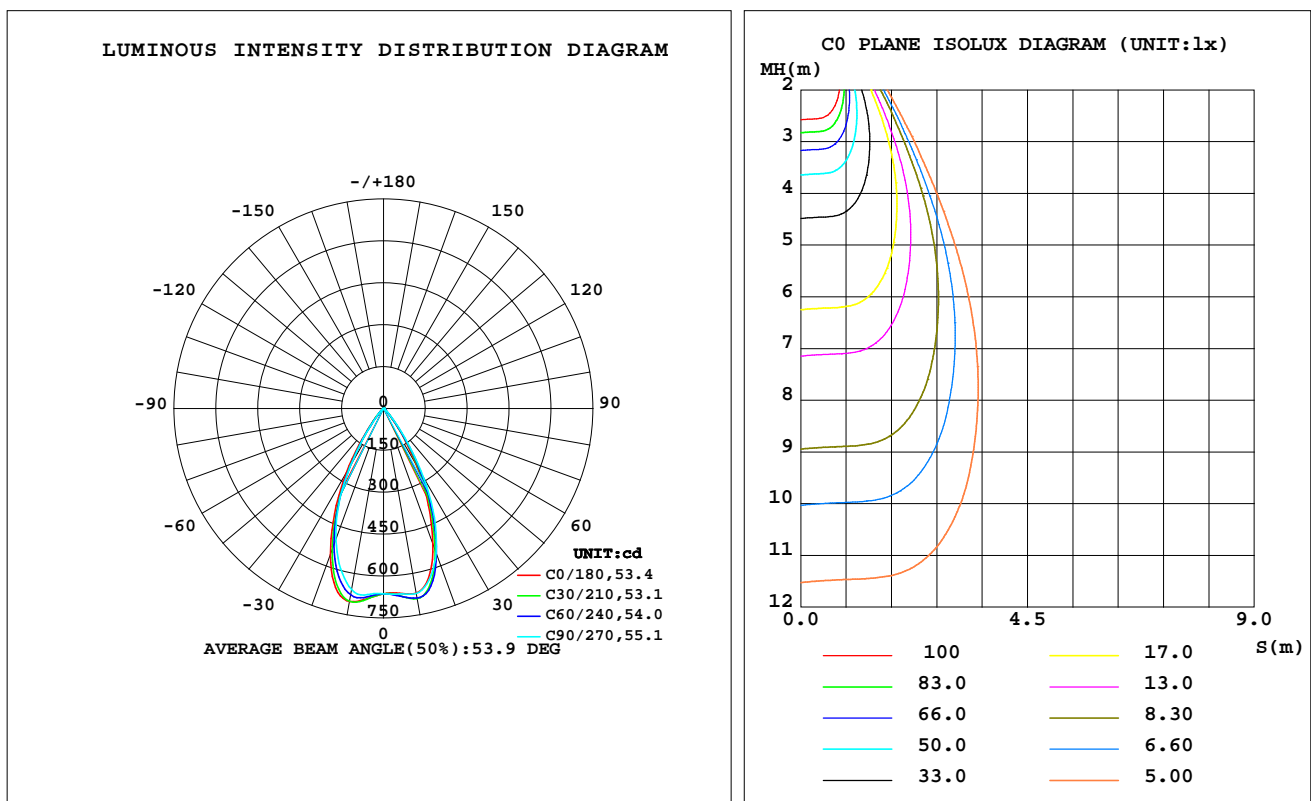
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.19V I:0.0400A P:8.2972W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070991
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.21 lm/W			
MODEL	CREE	I _{max} (cd)	702.0	S/MH(C0/180)	0.83
NOMINAL POWER(W)	8	LOR(%)	77.7	S/MH(C90/270)	0.80
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	532.75	η UP,DN(C0-180)	0.0,40.2
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,37.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	77.7	CIBSE SHR MAX	0.85



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	671.2	690.4	672.5	675.4	701.3	689.4	658.6	648.0	0- 10	64.30	64.30	12.1,9.38
20	517.2	548.1	551.5	547.3	557.2	529.0	499.1	491.3	10- 20	173.5	237.8	44.6,34.7
30	242.0	267.4	290.2	283.1	269.2	242.2	238.3	236.3	20- 30	180.3	418.1	78.5,61
40	51.25	60.11	65.77	63.83	55.80	47.22	44.45	46.04	30- 40	84.63	502.7	94.4,73.3
50	10.37	12.06	12.80	11.98	10.33	9.549	9.129	9.404	40- 50	19.49	522.2	98,76.2
60	3.667	3.677	3.783	3.800	3.726	3.637	3.565	3.620	50- 60	5.340	527.5	99,76.9
70	2.496	2.528	2.580	2.647	2.600	2.481	2.432	2.463	60- 70	3.100	530.6	99.6,77.4
80	0.8164	0.8981	0.9726	1.006	0.9914	0.8933	0.8146	0.7875	70- 80	1.825	532.5	99.9,77.7
90	0	0	0	0	0	0	0	0	80- 90	0.2887	532.8	100,77.7
100	0	0	0	0	0	0	0	0	90-100	0	532.8	100,77.7
110	0	0	0	0	0	0	0	0	100-110	0	532.8	100,77.7
120	0	0	0	0	0	0	0	0	110-120	0	532.8	100,77.7
130	0	0	0	0	0	0	0	0	120-130	0	532.8	100,77.7
140	0	0	0	0	0	0	0	0	130-140	0	532.8	100,77.7
150	0	0	0	0	0	0	0	0	140-150	0	532.8	100,77.7
160	0	0	0	0	0	0	0	0	150-160	0	532.8	100,77.7
170	0	0	0	0	0	0	0	0	160-170	0	532.8	100,77.7
180	0	0	0	0	0	0	0	0	170-180	0	532.8	100,77.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Operators:zoe
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Humidity:65.0%
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DRIVER:9290 028 088 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.19V I:0.0400A P:8.2972W PF:0.9398 Freq:49.99Hz
Lamp Flux:685.66x1 lm

NAME: 2218.511-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

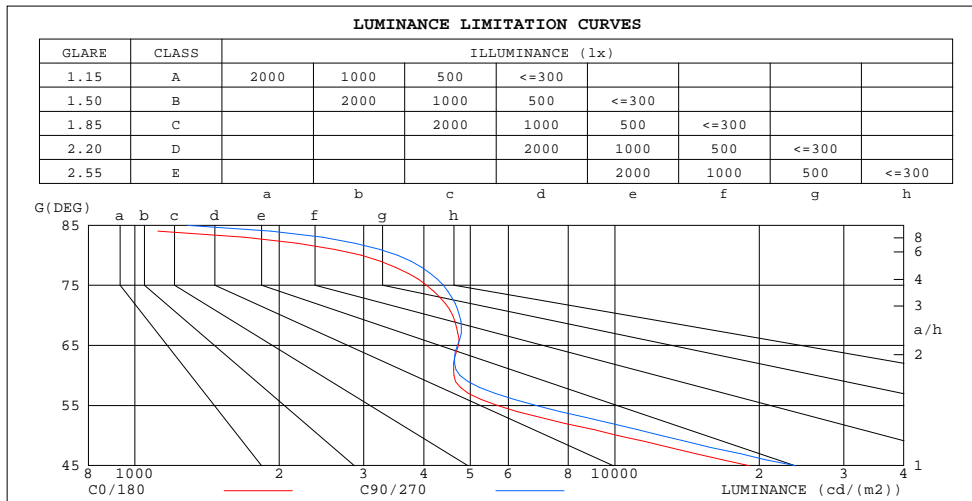
DIM.:

SERIAL No.: 2308070991

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



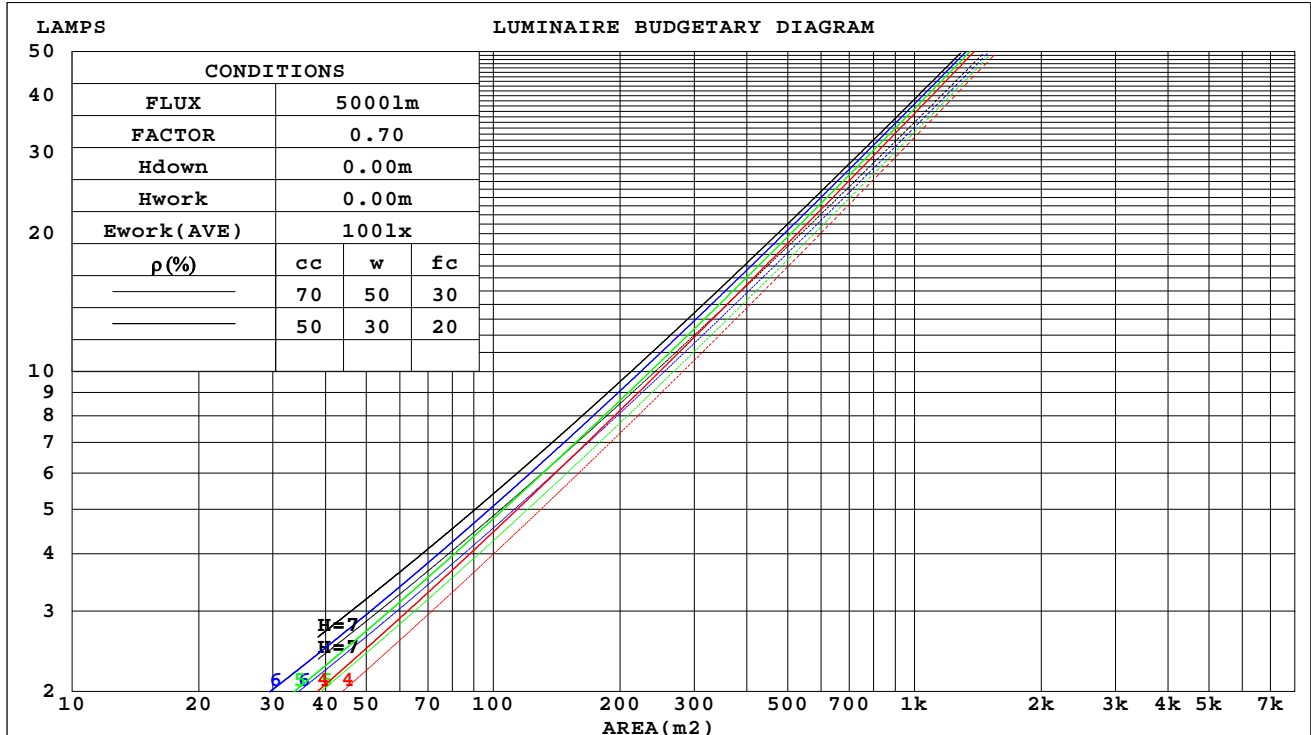
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.92	.92	.92	.90	.90	.90	.86	.86	.86	.83	.83	.83	.79	.79	.79	.78
1.0	.86	.84	.83	.85	.83	.81	.81	.80	.79	.79	.78	.77	.76	.75	.74	.73
2.0	.81	.78	.75	.79	.76	.74	.77	.74	.73	.74	.73	.71	.72	.71	.70	.68
3.0	.75	.72	.69	.74	.71	.68	.72	.69	.67	.70	.68	.66	.69	.67	.65	.64
4.0	.71	.67	.64	.70	.66	.63	.68	.65	.62	.67	.64	.62	.65	.63	.61	.60
5.0	.67	.62	.59	.66	.62	.59	.65	.61	.58	.63	.60	.58	.62	.59	.57	.56
6.0	.63	.58	.55	.62	.58	.55	.61	.57	.55	.60	.57	.54	.59	.56	.54	.53
7.0	.59	.55	.52	.59	.55	.52	.58	.54	.51	.57	.54	.51	.56	.53	.51	.50
8.0	.56	.52	.49	.56	.52	.49	.55	.51	.49	.54	.51	.48	.53	.50	.48	.47
9.0	.53	.49	.46	.53	.49	.46	.52	.48	.46	.52	.48	.46	.51	.48	.46	.45
10.0	.51	.46	.44	.50	.46	.44	.50	.46	.43	.49	.46	.43	.49	.45	.43	.42



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308070991
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

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	.134	.076	.024	.129	.074	.023	.119	.069	.022	.110	.064	.020	.102	.059	.019		
2.0	.128	.070	.022	.124	.068	.021	.115	.064	.020	.108	.061	.019	.101	.057	.018		
3.0	.121	.065	.019	.118	.063	.019	.111	.060	.018	.104	.057	.018	.098	.054	.017		
4.0	.115	.060	.018	.112	.059	.017	.106	.056	.017	.101	.054	.016	.095	.052	.016		
5.0	.110	.056	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015	.093	.049	.015		
6.0	.105	.053	.015	.102	.052	.015	.098	.050	.015	.094	.049	.014	.090	.047	.014		
7.0	.100	.050	.014	.098	.049	.014	.094	.048	.014	.090	.046	.013	.087	.045	.013		
8.0	.096	.047	.013	.094	.046	.013	.090	.045	.013	.087	.044	.013	.084	.043	.013		
9.0	.092	.044	.012	.090	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012		
10.0	.088	.042	.012	.087	.042	.012	.084	.041	.012	.081	.040	.011	.078	.039	.011		

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	.148	.148	.148	.126	.126	.126	.086	.086	.086	.050	.050	.050	.016	.016	.016	
1.0	.133	.122	.113	.114	.105	.097	.078	.072	.067	.045	.042	.039	.014	.013	.013	
2.0	.121	.103	.088	.103	.089	.076	.071	.061	.053	.041	.036	.031	.013	.012	.010	
3.0	.111	.088	.070	.095	.076	.061	.065	.053	.043	.038	.031	.025	.012	.010	.008	
4.0	.103	.077	.057	.088	.066	.049	.061	.046	.035	.035	.027	.021	.011	.009	.007	
5.0	.096	.068	.047	.082	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
6.0	.090	.060	.039	.077	.052	.034	.053	.037	.024	.031	.022	.014	.010	.007	.005	
7.0	.085	.054	.033	.073	.047	.029	.050	.033	.021	.029	.019	.012	.009	.006	.004	
8.0	.080	.050	.028	.069	.043	.025	.048	.030	.018	.028	.018	.010	.009	.006	.003	
9.0	.076	.045	.025	.066	.039	.022	.046	.028	.015	.027	.016	.009	.009	.005	.003	
10.0	.073	.042	.022	.063	.037	.019	.044	.026	.013	.025	.015	.008	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308070991			
MFR.: RISE					SUR.: 0.001589625m2			Shielding Angle:			
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	2H	20.0	20.9	20.2	21.1	21.2	20.9	21.8	21.1	22.0	22.1
	3H	19.9	20.8	20.2	21.0	21.2	20.8	21.6	21.1	21.8	22.0
	4H	19.9	20.7	20.2	20.9	21.1	20.8	21.6	21.0	21.8	22.0
	6H	19.9	20.6	20.2	20.9	21.1	20.7	21.5	21.0	21.7	21.9
	8H	19.8	20.5	20.1	20.8	21.1	20.7	21.4	21.0	21.6	21.9
	12H	19.8	20.5	20.1	20.7	21.0	20.6	21.3	21.0	21.6	21.9
4H	2H	19.8	20.6	20.1	20.8	21.0	20.7	21.5	20.9	21.7	21.9
	3H	19.8	20.5	20.1	20.7	21.0	20.6	21.3	20.9	21.6	21.8
	4H	19.8	20.4	20.1	20.7	21.0	20.6	21.2	20.9	21.5	21.8
	6H	19.8	20.3	20.1	20.6	21.0	20.6	21.1	20.9	21.4	21.8
	8H	19.7	20.2	20.1	20.6	20.9	20.5	21.0	20.9	21.4	21.8
	12H	19.7	20.1	20.1	20.5	20.9	20.5	21.0	20.9	21.3	21.7
8H	4H	19.7	20.2	20.1	20.5	20.9	20.5	21.0	20.9	21.4	21.7
	6H	19.7	20.1	20.1	20.5	20.9	20.5	20.9	20.9	21.3	21.7
	8H	19.6	20.0	20.1	20.4	20.9	20.4	20.8	20.9	21.2	21.7
	12H	19.6	19.9	20.1	20.3	20.8	20.4	20.7	20.9	21.2	21.6
12H	4H	19.6	20.1	20.1	20.5	20.9	20.4	20.9	20.9	21.3	21.7
	6H	19.6	20.0	20.1	20.4	20.9	20.4	20.8	20.9	21.2	21.7
	8H	19.6	19.9	20.1	20.4	20.8	20.4	20.7	20.9	21.2	21.6
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 2.8 / - 5.3					+ 3.4 / - 5.9					
1.5H	+ 4.9 / - 4.9					+ 5.5 / - 5.5					
2.0H	+ 3.7 / - 2.0					+ 4.5 / - 2.3					

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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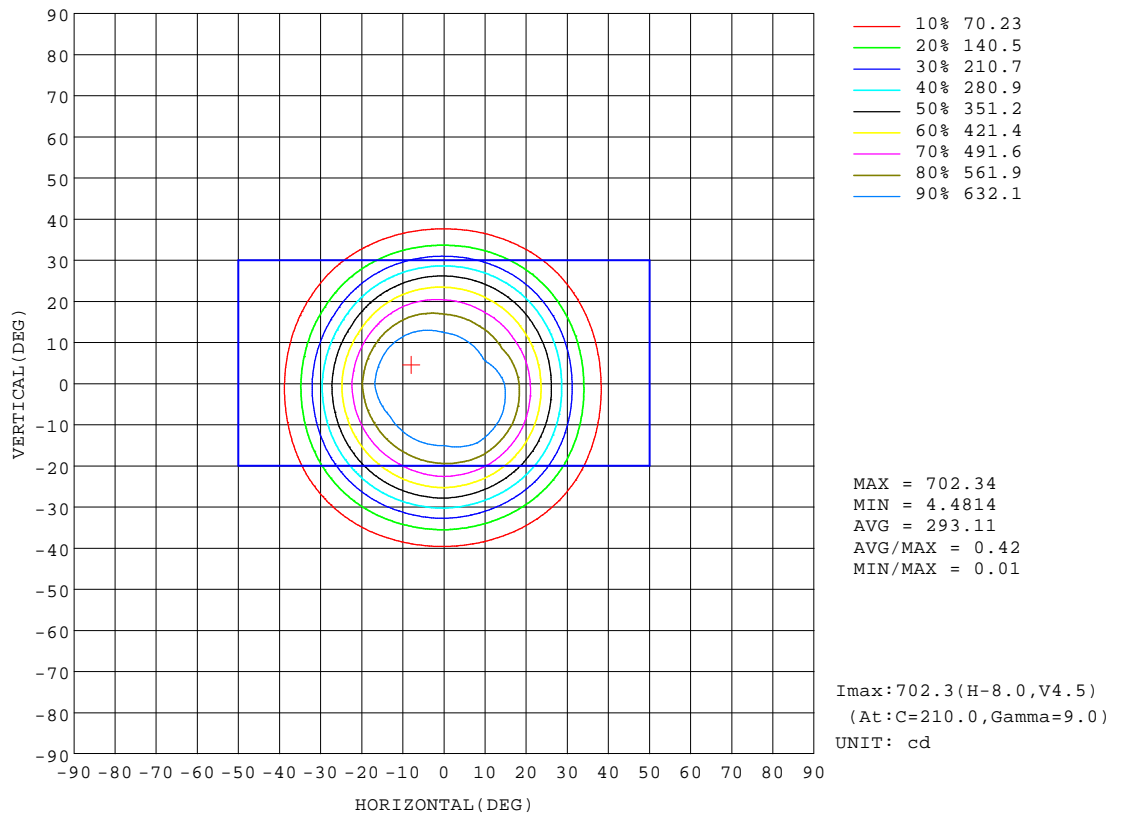
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	64	61	68	63	61	67	63	61	58
0.80	74	70	67	74	69	67	73	69	66	64
1.00	77	73	70	77	73	70	76	73	70	67
1.25	80	77	74	80	76	74	78	75	73	70
1.50	83	79	76	82	78	76	80	77	75	72
2.00	85	81	79	83	81	78	81	79	77	73
2.50	86	83	81	85	82	80	82	80	78	74
3.00	87	84	82	86	83	81	83	81	80	75
4.00	89	86	85	87	85	84	84	83	82	76
5.00	89	88	86	88	86	85	85	84	83	77
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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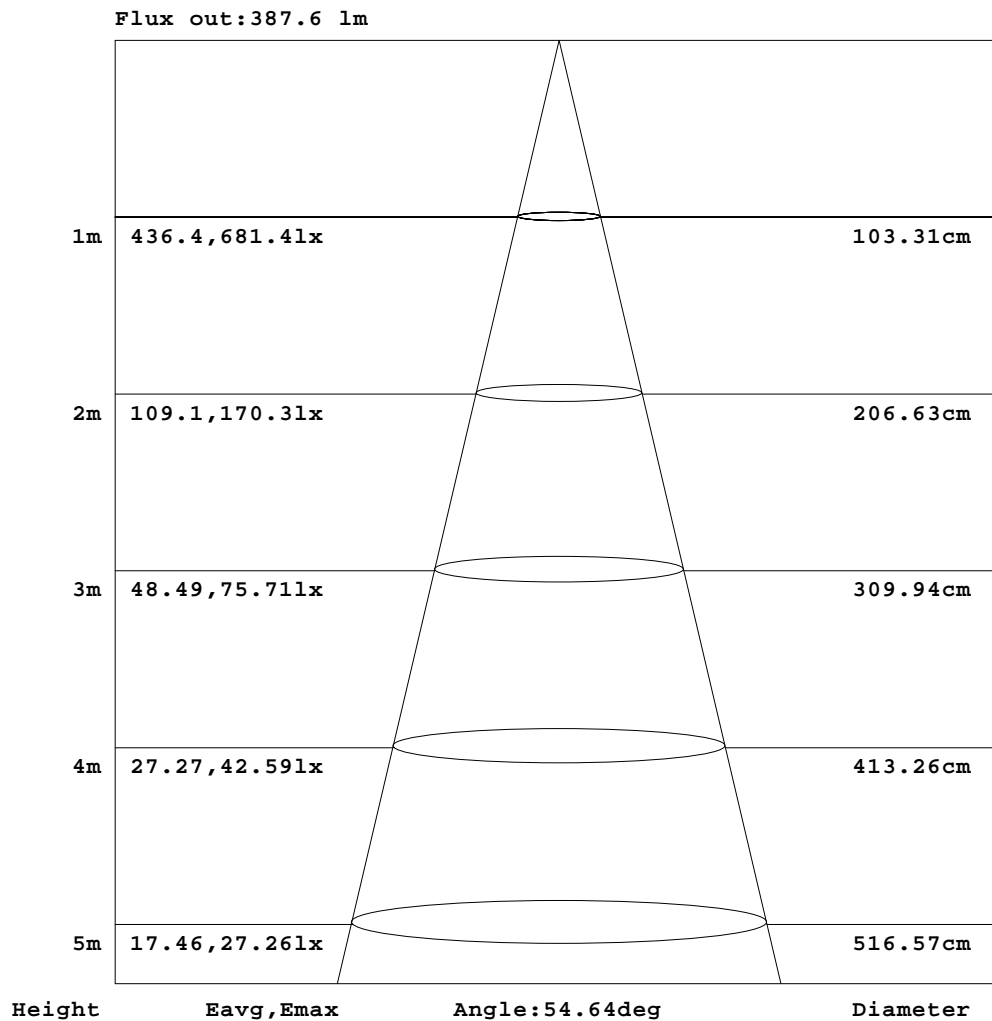


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AAI Figure

Test:U:220.19V I:0.0400A P:8.2972W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070991
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



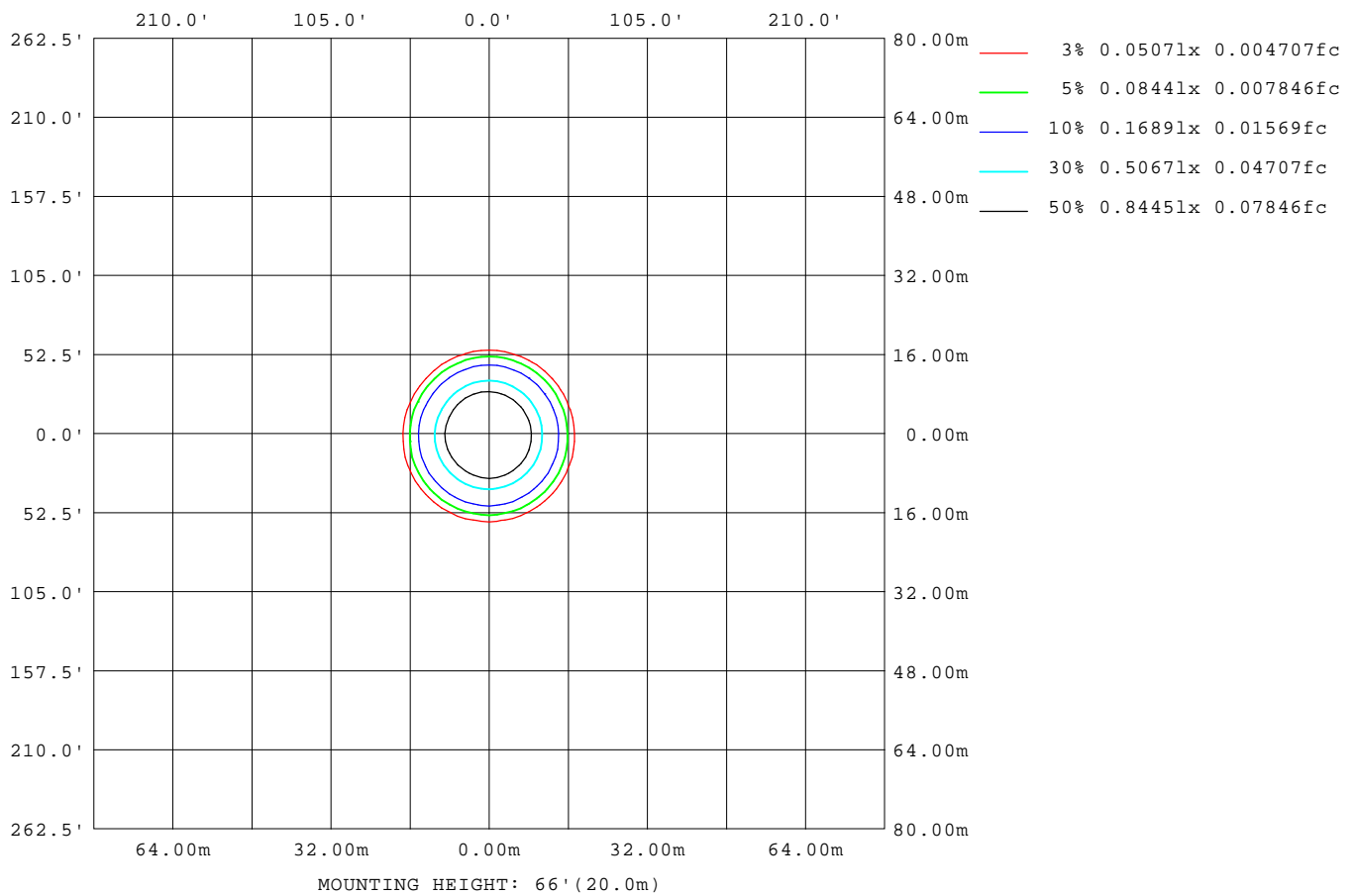
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-7

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084C 50R
DRIVER:9290 028 088 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.19V I:0.0400A P:8.2972W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070991
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-7

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084C 50R
DRIVER:9290 028 088 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.19V I:0.0400A P:8.2972W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070991
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

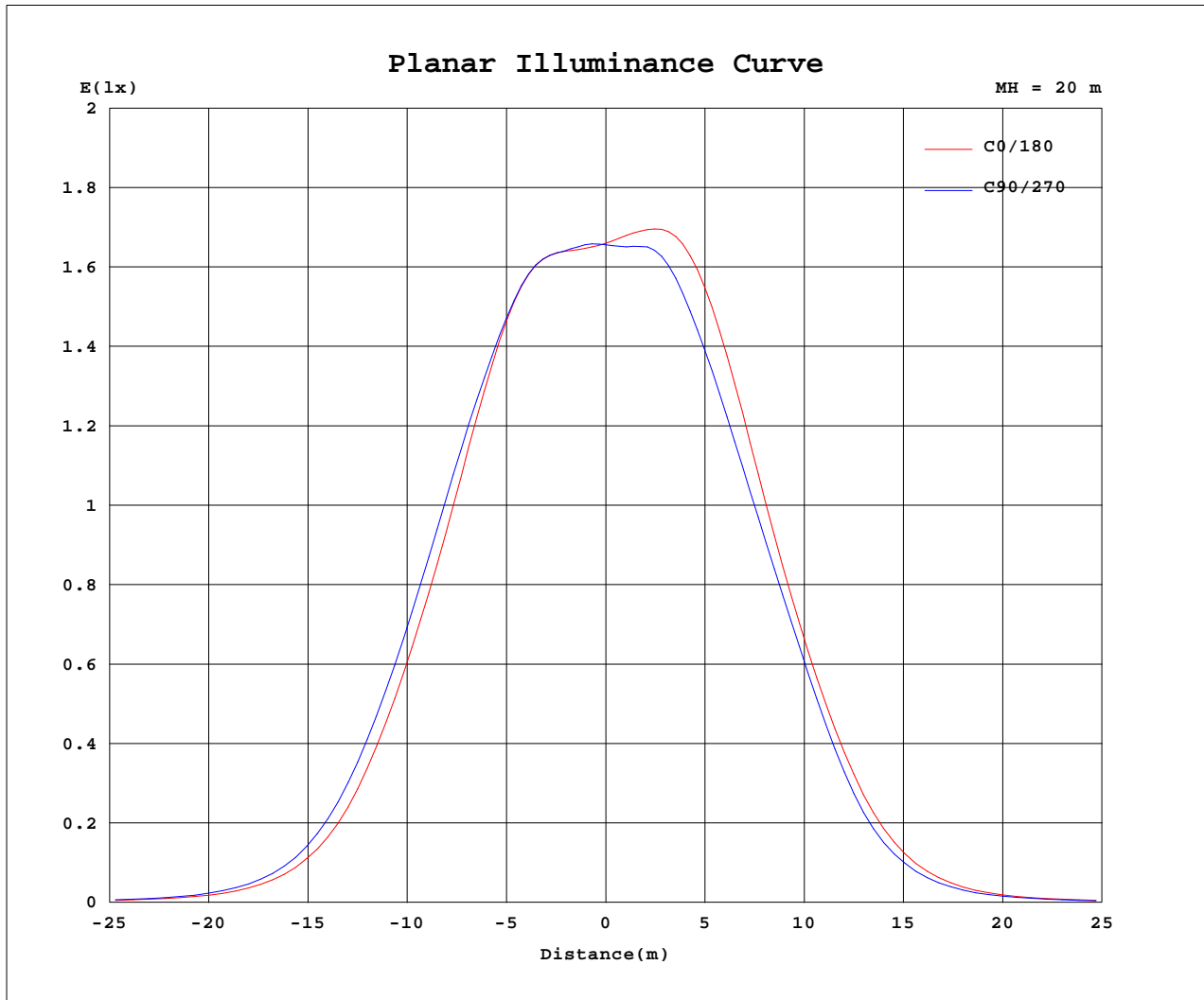
AvgL	cd/m2
L_0~180(65)av	4747
L_0~180(75)av	4255
L_0~180(85)av	953
L_90~270(65)av	4648
L_90~270(75)av	4208
L_90~270(85)av	916
L_45(65)av	4705
L_45(75)av	4228
L_45(85)av	892

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-7

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084C 50R
DRIVER:9290 028 088 350mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2023-8-7

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CXB1304-0000-000F0UA430G Ra:90
 LENS: PM-1084C 50R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.19V I:0.0400A P:8.2972W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070991
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	663	663	663	663	663	663	663	663	663	663	663	663						
5	663	672	674	666	664	670	683	685	677	669	663	659						
10	671	692	689	673	674	677	701	701	678	659	651	645						
15	626	650	658	634	637	638	664	651	623	594	585	585						
20	517	542	555	551	546	549	557	538	520	499	489	494						
25	382	400	417	431	424	421	416	391	387	382	376	373						
30	242	260	275	290	287	279	269	243	241	238	237	236						
35	120	135	143	153	151	146	135	119	114	110	111	113						
40	51.3	58.2	62.0	65.8	65.2	62.5	55.8	48.6	45.8	44.4	45.1	47.0						
45	21.4	24.1	25.5	26.8	26.2	25.1	22.0	19.8	19.2	18.5	18.9	19.7						
50	10.4	11.7	12.4	12.8	12.3	11.7	10.3	9.75	9.35	9.13	9.09	9.72						
55	5.19	5.63	6.05	6.27	6.07	5.77	5.34	5.13	4.87	4.73	4.82	4.97						
60	3.67	3.65	3.70	3.78	3.80	3.80	3.73	3.68	3.59	3.56	3.59	3.65						
65	3.17	3.15	3.14	3.16	3.21	3.25	3.21	3.15	3.10	3.08	3.12	3.17						
70	2.50	2.52	2.54	2.58	2.63	2.66	2.60	2.51	2.45	2.43	2.45	2.48						
75	1.66	1.72	1.76	1.81	1.84	1.87	1.84	1.76	1.70	1.65	1.63	1.64						
80	0.82	0.87	0.92	0.97	1.00	1.02	0.99	0.92	0.87	0.81	0.79	0.79						
85	0.08	0.10	0.14	0.18	0.19	0.20	0.19	0.13	0.10	0.08	0.06	0.06						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

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C Interval: 30.0DEG
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