

### Luminaire Photograph



Light Output Ratio:	88.0%	
Luminaire Power:	11.74 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-4-3

Range: 0 - 180DEG  
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: BXRE-40G10TH-A-83 Ra: 90  
LENS: PM-0132A 24R  
DRIVER: SC42W300-1050CG-4W 300mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

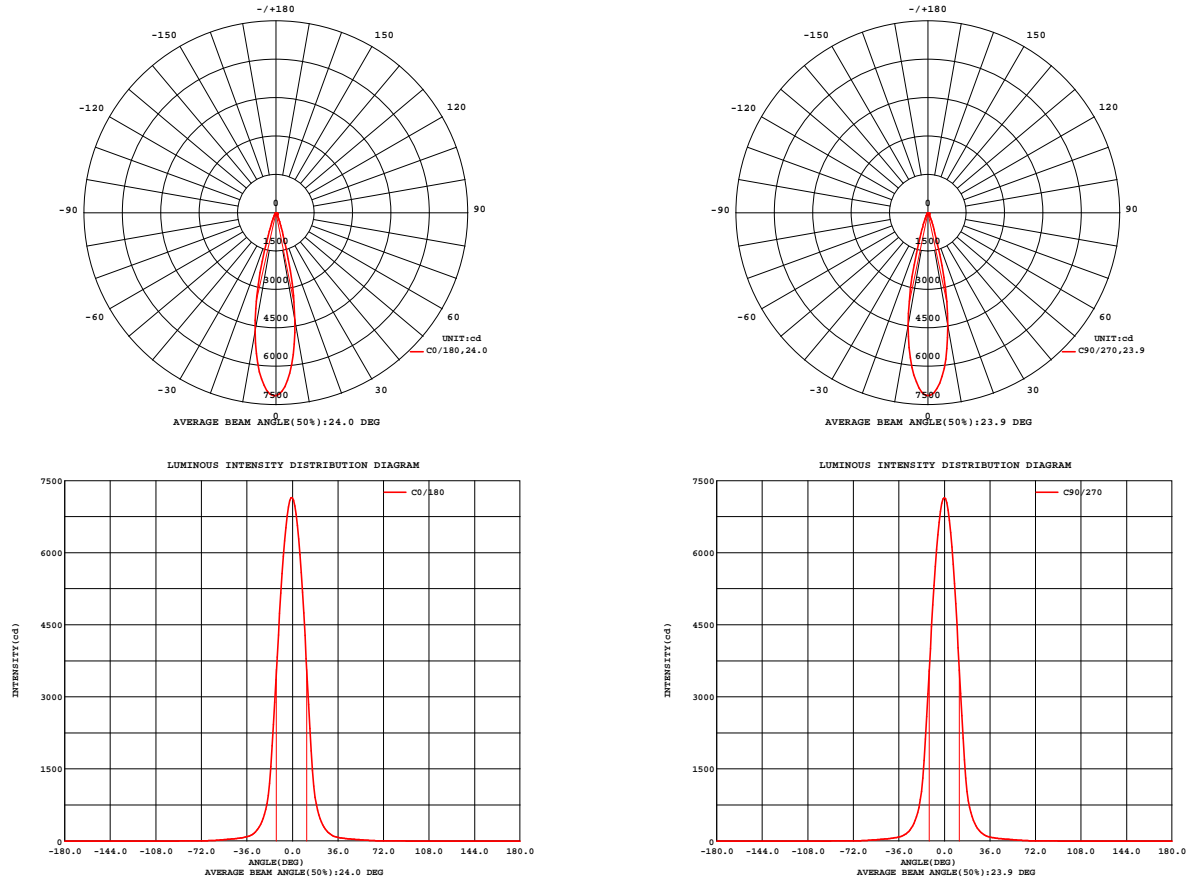


Fig. C0/C180

Fig. C90/C270

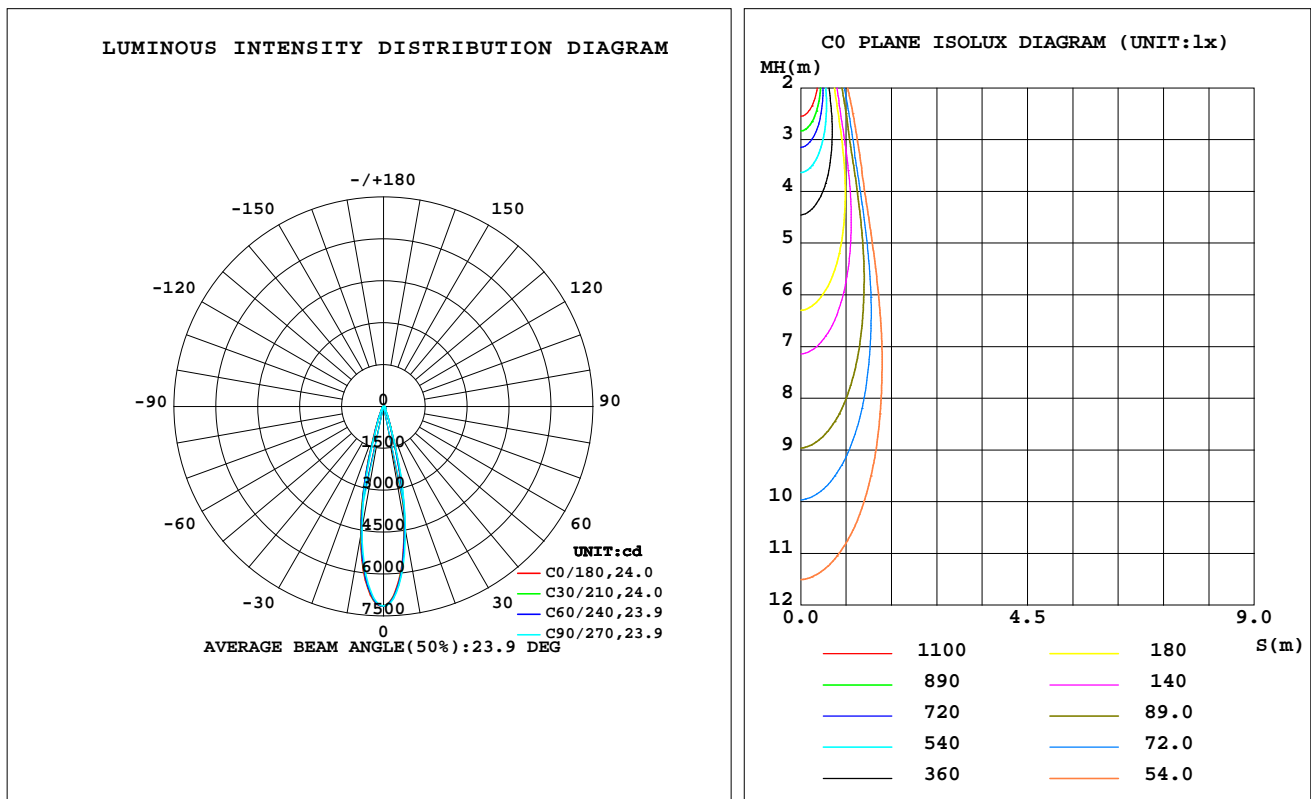
C Range: 0 - 360DEG  
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DRIVER: SC42W300-1050CG-4W 300mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.20V I:0.0616A P:11.741W PF:0.8608 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030254
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.58 lm/W			
MODEL	Brideglux	Imax(cd)	7145	S/MH(C0/180)	0.41
NOMINAL POWER(W)	12	LOR(%)	88.0	S/MH(C90/270)	0.39
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1415.7	UP,DN(C0-180)	0.0,43.7
NOMINAL FLUX(lm)	1608.69	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,44.3
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	down(%)	88.0	CIBSE SHR MAX	0.30



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30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	4276	4358	4492	4661	4736	4630	4467	4309	0- 10	549.0	549.0	38.8,34.1
20	641.0	652.4	699.7	731.1	778.2	732.8	697.2	639.7	10- 20	586.9	1136	80.2,70.6
30	140.1	148.9	155.9	161.6	165.5	160.3	152.2	142.0	20- 30	154.3	1290	91.1,80.2
40	58.53	59.72	62.40	63.95	65.68	64.80	62.44	59.23	30- 40	58.70	1349	95.3,83.8
50	33.30	34.70	36.10	36.68	37.11	36.11	34.60	33.30	40- 50	36.12	1385	97.8,86.1
60	13.60	14.77	15.78	15.77	15.32	14.64	13.93	13.40	50- 60	22.02	1407	99.4,87.5
70	2.847	3.237	3.640	3.825	3.551	3.310	3.064	2.883	60- 70	7.816	1415	99.9,87.9
80	0.0506	0.0306	0.0465	0.0363	0.0409	0.0254	0.0398	0.0230	70- 80	0.9057	1416	100,88
90	0	0	0	0	0	0	0	0	80- 90	0.0235	1416	100,88
100	0	0	0	0	0	0	0	0	90-100	0	1416	100,88
110	0	0	0	0	0	0	0	0	100-110	0	1416	100,88
120	0	0	0	0	0	0	0	0	110-120	0	1416	100,88
130	0	0	0	0	0	0	0	0	120-130	0	1416	100,88
140	0	0	0	0	0	0	0	0	130-140	0	1416	100,88
150	0	0	0	0	0	0	0	0	140-150	0	1416	100,88
160	0	0	0	0	0	0	0	0	150-160	0	1416	100,88
170	0	0	0	0	0	0	0	0	160-170	0	1416	100,88
180	0	0	0	0	0	0	0	0	170-180	0	1416	100,88
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:BXRE-40G10TH-A-83 Ra:90  
LENS:PM-0132A 24R  
DRIVER:SC42W300-1050CG-4W 300mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.20V I:0.0616A P:11.741W PF:0.8608 Freq:49.99Hz  
Lamp Flux:1608.69x1 lm

NAME: 2319.209-UA-300-HE

TYPE:

WEIGHT:

SPEC.: 4000K

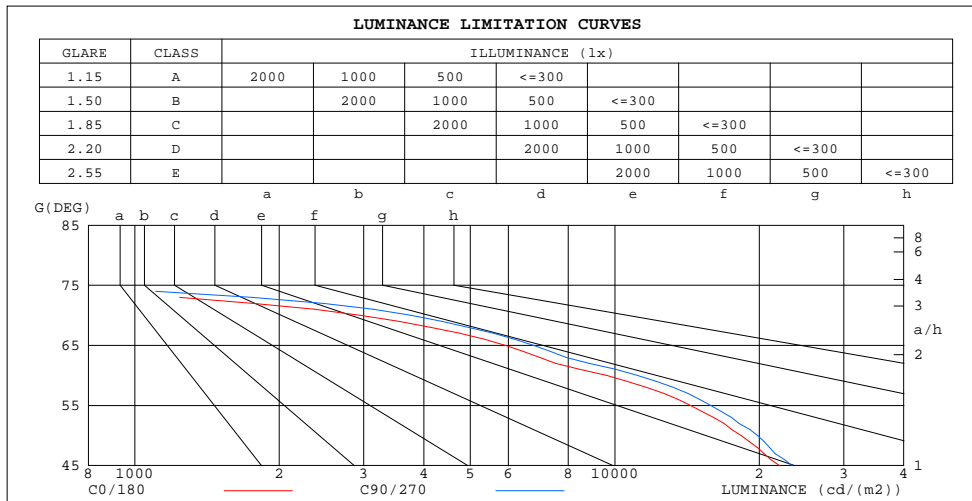
DIM.:

SERIAL No.: 2404030254

MFR.: RISE

SUR.: 0.002826m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	150	135
80	103	95
75	208	520
70	2949	3764
65	5915	6778
60	9632	11159
55	14395	15850
50	18347	19861
45	22067	23432

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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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Lamp Flux:1608.69x1 lm

NAME: 2319.209-UA-300-HE

TYPE:

WEIGHT:

SPEC.: 4000K

DIM.:

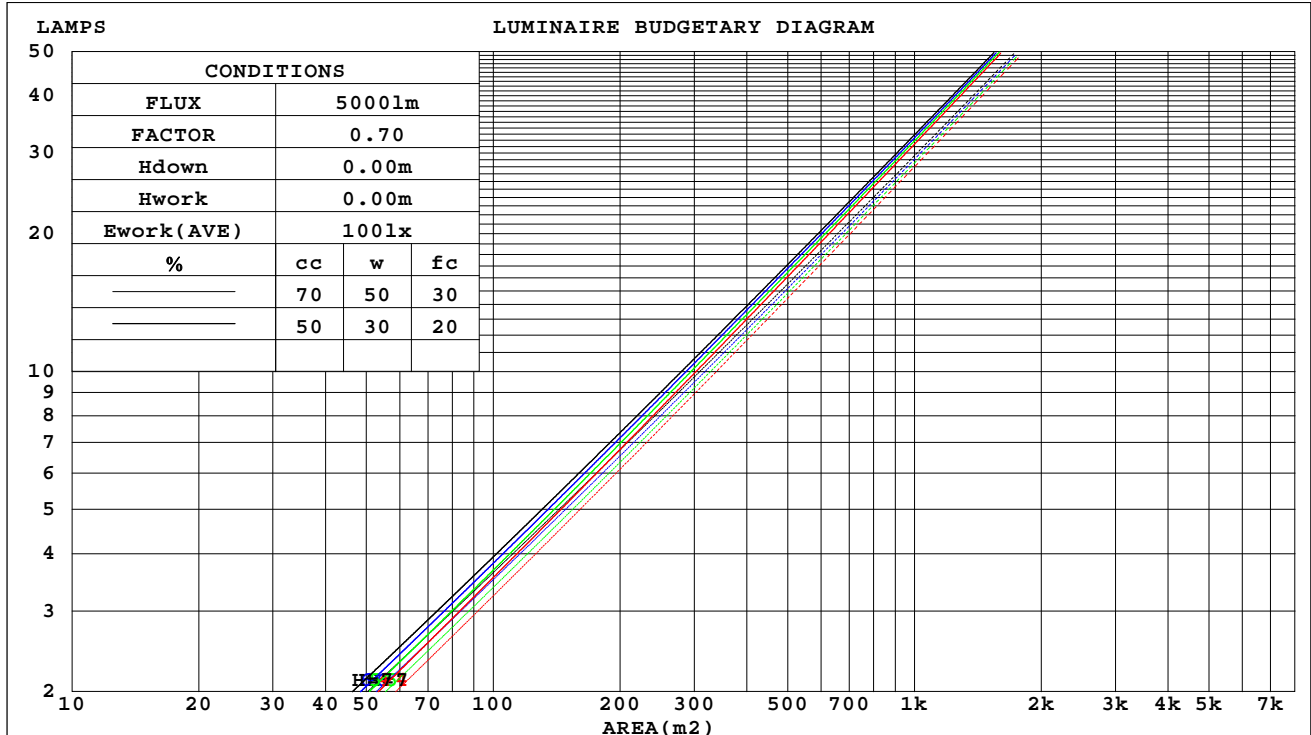
SERIAL No.: 2404030254

MFR.: RISE

SUR.: 0.002826m2

Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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30minutes warm-up

### WEC AND CCEC

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NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030254
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RcR	RcR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.123	.070	.022	.117	.067	.021	.106	.061	.019	.096	.055	.018	.086	.050	.016	
2.0	.114	.063	.019	.109	.060	.019	.100	.056	.017	.092	.052	.016	.084	.048	.015	
3.0	.106	.057	.017	.102	.055	.017	.095	.051	.016	.088	.048	.015	.081	.045	.014	
4.0	.100	.052	.015	.096	.050	.015	.090	.048	.014	.084	.045	.014	.079	.043	.013	
5.0	.094	.048	.014	.091	.047	.014	.085	.044	.013	.080	.042	.013	.076	.040	.012	
6.0	.088	.044	.013	.086	.043	.012	.081	.042	.012	.077	.040	.012	.073	.038	.011	
7.0	.084	.041	.012	.082	.041	.012	.077	.039	.011	.074	.038	.011	.070	.036	.011	
8.0	.079	.039	.011	.078	.038	.011	.074	.037	.011	.071	.036	.010	.068	.035	.010	
9.0	.076	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.010	
10.0	.072	.035	.010	.071	.034	.010	.068	.033	.009	.065	.033	.009	.063	.032	.009	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.168	.168	.168	.143	.143	.143	.098	.098	.098	.056	.056	.056	.018	.018	.018	
1.0	.148	.139	.130	.127	.119	.112	.087	.082	.077	.050	.047	.045	.016	.015	.015	
2.0	.133	.117	.104	.114	.101	.089	.078	.070	.062	.045	.040	.037	.014	.013	.012	
3.0	.119	.100	.084	.102	.086	.073	.070	.060	.051	.041	.035	.030	.013	.011	.010	
4.0	.109	.086	.069	.093	.074	.060	.064	.052	.042	.037	.030	.025	.012	.010	.008	
5.0	.099	.075	.058	.085	.065	.050	.059	.046	.035	.034	.027	.021	.011	.009	.007	
6.0	.091	.067	.049	.079	.058	.042	.054	.040	.030	.031	.024	.018	.010	.008	.006	
7.0	.085	.059	.042	.073	.051	.036	.050	.036	.026	.029	.021	.015	.009	.007	.005	
8.0	.079	.053	.036	.068	.046	.031	.047	.033	.022	.027	.019	.013	.009	.006	.004	
9.0	.074	.048	.031	.064	.042	.027	.044	.030	.019	.026	.017	.012	.008	.006	.004	
10.0	.069	.044	.027	.060	.038	.024	.041	.027	.017	.024	.016	.010	.008	.005	.003	

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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
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LENS:PM-0132A 24R  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.20V I:0.0616A P:11.741W PF:0.8608 Freq:49.99Hz Lamp Flux:1608.69x1 lm										
NAME: 2319.209-UA-300-HE					TYPE:			WEIGHT:		
SPEC.: 4000K					DIM.:			SERIAL No.: 2404030254		
MFR.: RISE					SUR.: 0.002826m2			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	13.0	13.7	13.2	13.8	14.0	13.4	14.0	13.6	14.2	14.3
3H	13.1	13.7	13.3	13.9	14.1	13.4	14.1	13.7	14.3	14.4
4H	13.0	13.6	13.3	13.8	14.0	13.4	14.0	13.6	14.2	14.4
6H	12.9	13.5	13.2	13.7	13.9	13.3	13.9	13.6	14.1	14.3
8H	12.9	13.4	13.2	13.6	13.9	13.2	13.8	13.5	14.0	14.3
12H	12.8	13.3	13.1	13.6	13.9	13.2	13.7	13.5	14.0	14.2
4H 2H	13.1	13.7	13.4	13.9	14.1	13.4	14.0	13.7	14.2	14.4
3H	13.2	13.7	13.5	13.9	14.2	13.5	14.0	13.8	14.3	14.6
4H	13.1	13.5	13.4	13.8	14.1	13.4	13.9	13.8	14.2	14.5
6H	13.0	13.4	13.3	13.7	14.1	13.3	13.7	13.7	14.1	14.4
8H	12.9	13.3	13.3	13.7	14.0	13.3	13.7	13.7	14.0	14.4
12H	12.9	13.2	13.3	13.6	14.0	13.2	13.6	13.6	13.9	14.3
8H 4H	12.9	13.3	13.3	13.7	14.0	13.3	13.7	13.7	14.0	14.4
6H	12.8	13.1	13.2	13.5	13.9	13.2	13.5	13.6	13.9	14.3
8H	12.8	13.0	13.2	13.5	13.9	13.1	13.4	13.5	13.8	14.2
12H	12.7	12.9	13.2	13.4	13.8	13.0	13.3	13.5	13.7	14.2
12H 4H	12.9	13.2	13.3	13.6	14.0	13.2	13.6	13.6	14.0	14.3
6H	12.8	13.0	13.2	13.5	13.9	13.1	13.4	13.5	13.8	14.2
8H	12.7	12.9	13.2	13.4	13.8	13.0	13.3	13.5	13.7	14.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.1 / - 1.8					+ 1.0 / - 1.6				
1.5H	+ 0.8 / - 0.7					+ 1.0 / - 0.9				
2.0H	+ 2.1 / - 3.7					+ 2.0 / - 3.6				

CIE Pub.117, 1609 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.7)  
Area: 0.002826 m2

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30minutes warm-up



### UTILIZATION FACTORS TABLE

Test:U:220.20V I:0.0616A P:11.741W PF:0.8608 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030254
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

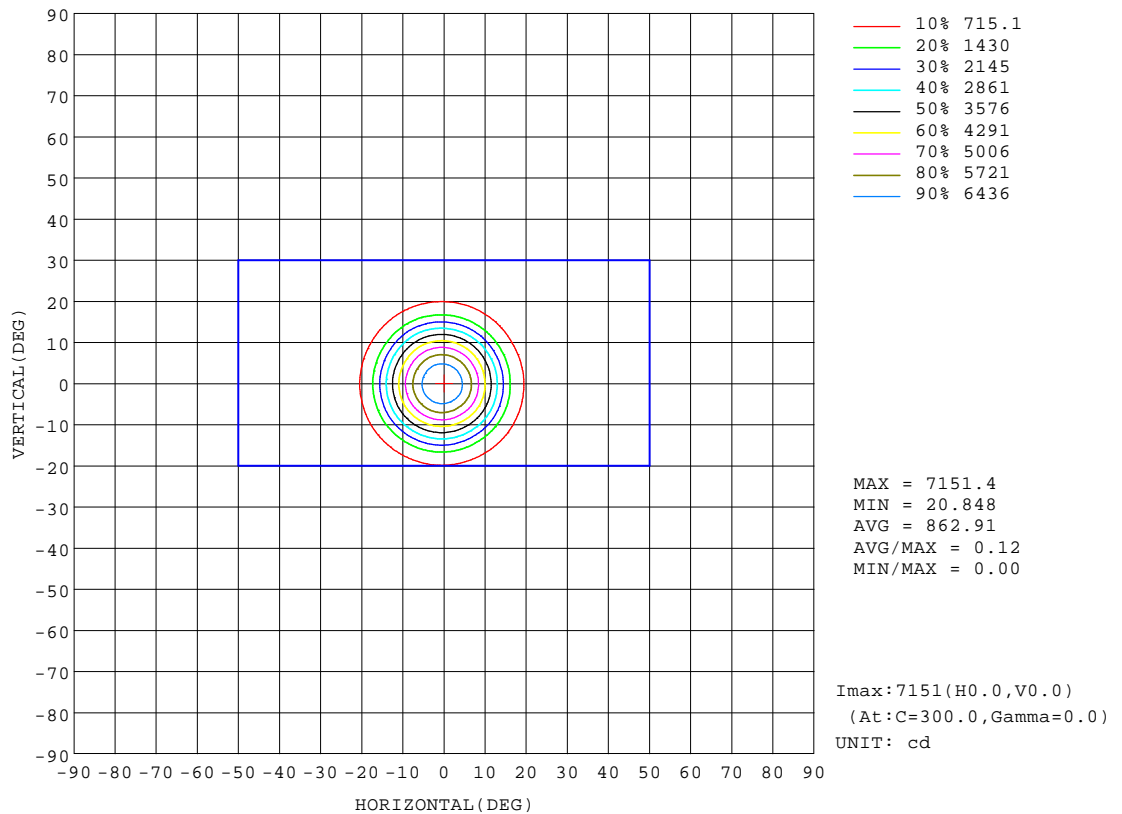
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	78	73	69	77	72	69	77	72	69	66
0.80	84	79	76	84	79	76	83	79	76	73
1.00	88	83	80	87	83	80	86	83	80	76
1.25	91	87	84	91	87	84	89	86	83	80
1.50	94	90	87	93	89	86	91	88	86	82
2.00	96	92	90	95	92	89	92	90	88	83
2.50	97	94	92	96	93	91	93	91	89	84
3.00	99	96	93	97	95	93	94	92	91	85
4.00	100	98	96	99	97	95	95	94	93	86
5.00	101	100	98	100	98	97	96	95	94	87
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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SPEC.: 4000K	DIM.:	SERIAL No.: 2404030254
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

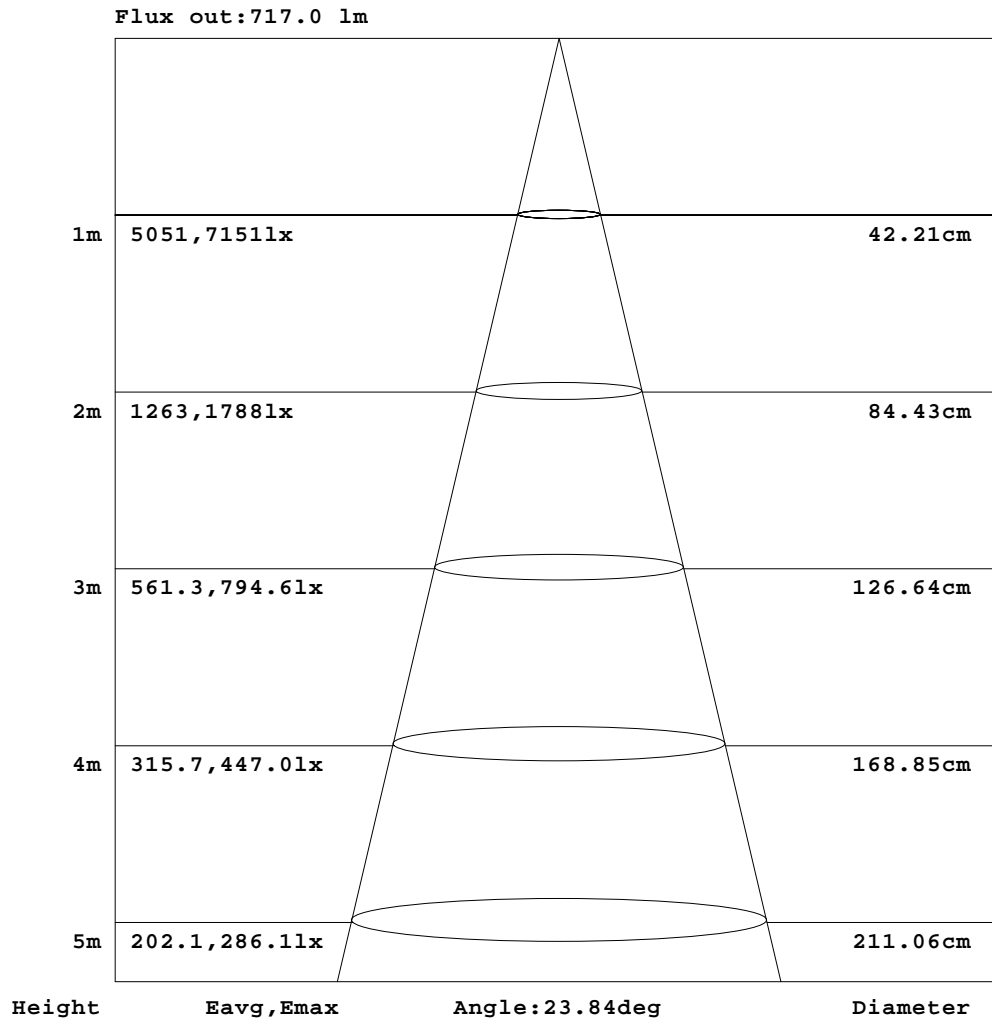


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## AAI Figure

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SPEC.: 4000K	DIM.:	SERIAL No.: 2404030254
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:



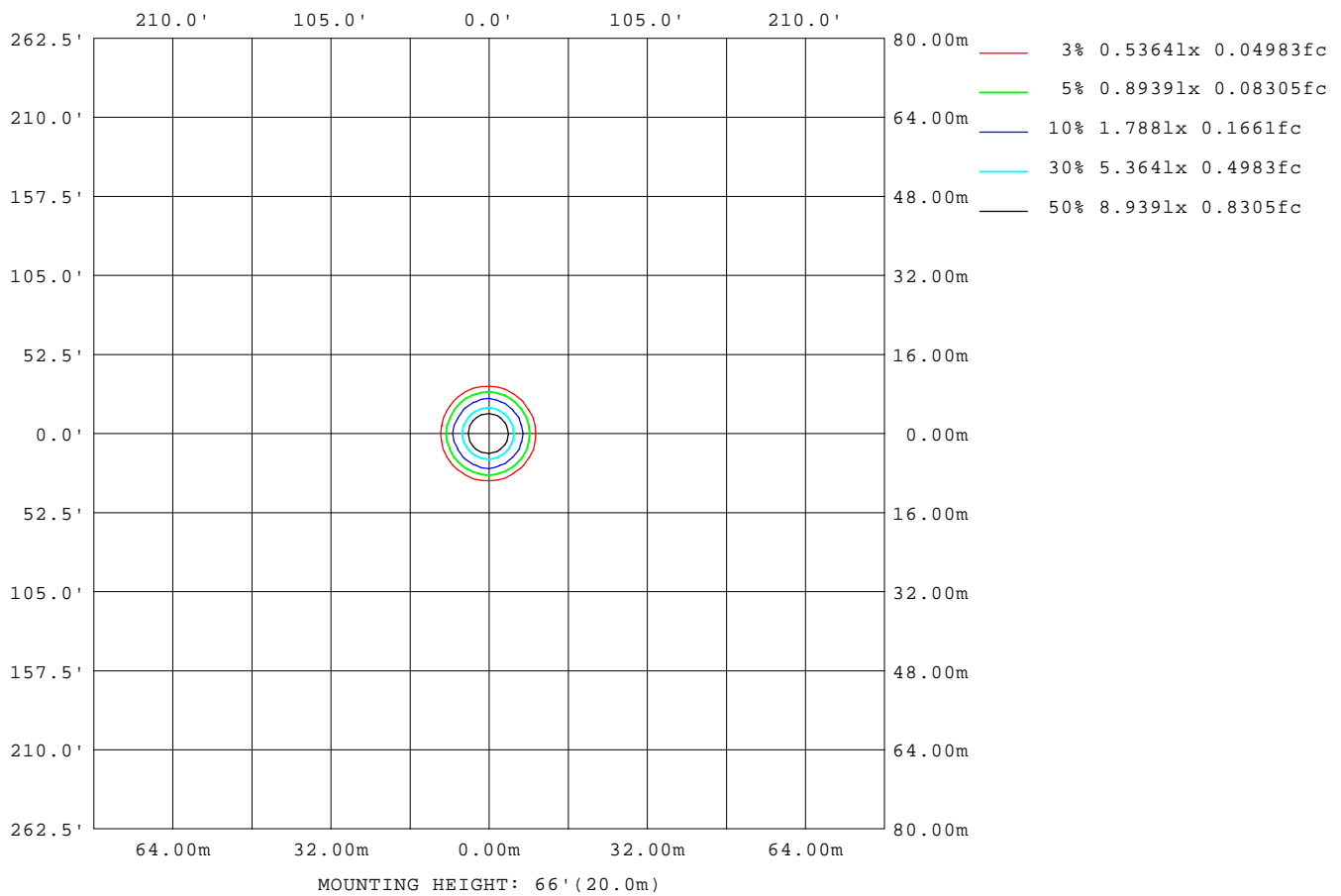
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.20V I:0.0616A P:11.741W PF:0.8608 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030254
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-4-3

Range: 0 - 180DEG  
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:BXRE-40G10TH-A-83 Ra:90  
LENS:PM-0132A 24R  
DRIVER:SC42W300-1050CG-4W 300mA  
30minutes warm-up

### LED Avg.L Report

Test:U:220.20V I:0.0616A P:11.741W PF:0.8608 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030254
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

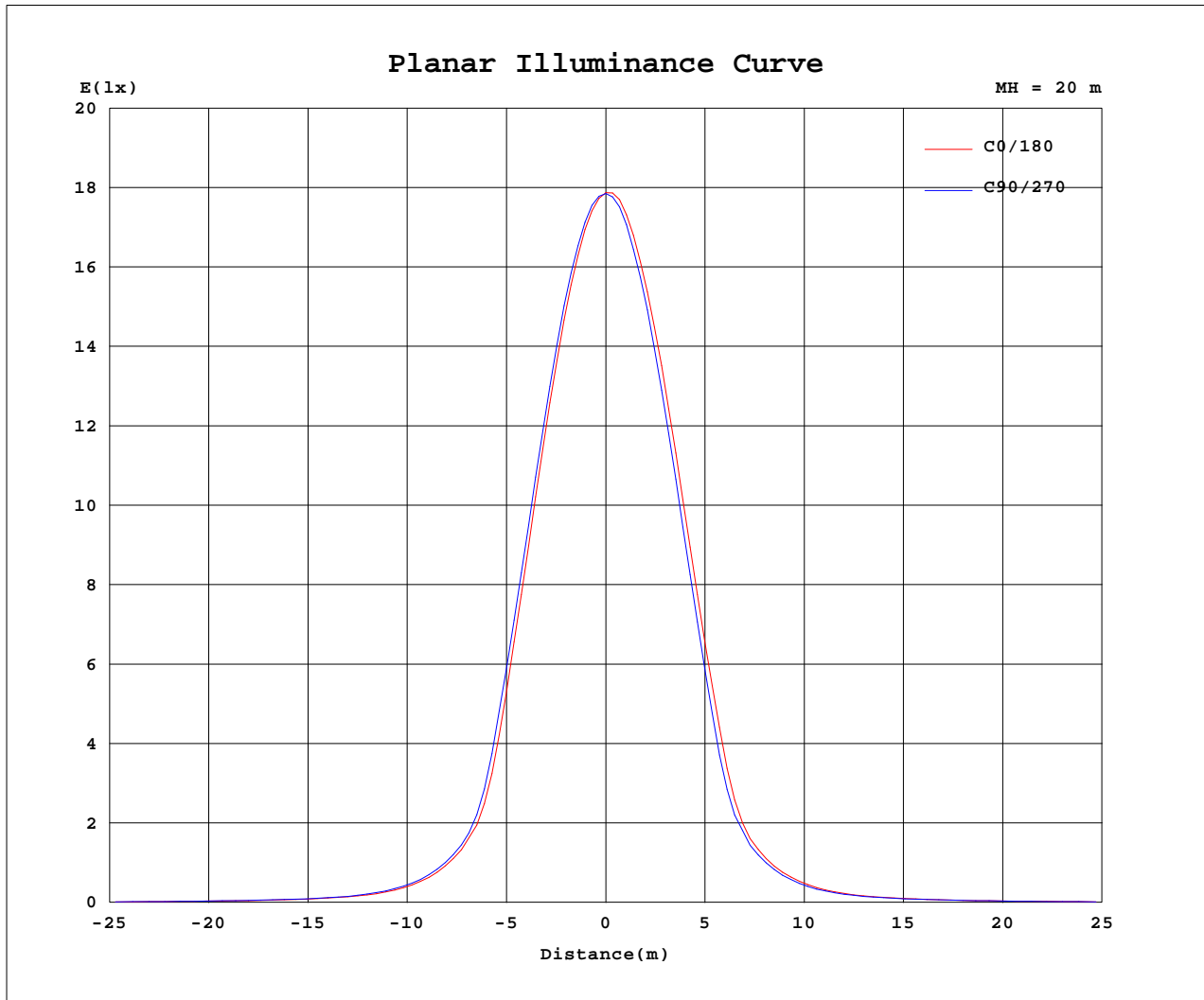
AvgL	cd/m2
L_0~180(65)av	6230
L_0~180(75)av	389
L_0~180(85)av	140
L_90~270(65)av	6428
L_90~270(75)av	359
L_90~270(85)av	131
L_45(65)av	6368
L_45(75)av	350
L_45(85)av	55

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-4-3

Range: 0 - 180DEG  
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:BXRE-40G10TH-A-83 Ra:90  
LENS:PM-0132A 24R  
DRIVER:SC42W300-1050CG-4W 300mA  
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: 2024-4-3

Range: 0 - 180DEG  
 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: BXRE-40G10TH-A-83 Ra:90  
 LENS: PM-0132A 24R  
 DRIVER: SC42W300-1050CG-4W 300mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.20V I:0.0616A P:11.741W PF:0.8608 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030254
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	7145	7145	7145	7145	7145	7145	7145	7145	7145	7145	7145	7145						
5	6287	6338	6350	6416	6471	6519	6521	6467	6446	6373	6304	6270						
10	4276	4344	4372	4492	4607	4714	4736	4655	4606	4467	4345	4274						
15	1873	1969	1983	2144	2261	2387	2423	2332	2280	2120	1981	1852						
20	641	655	650	700	713	749	778	740	726	697	656	623						
25	287	296	296	315	319	335	345	330	329	312	295	284						
30	140	147	151	156	158	165	165	161	160	152	144	140						
35	83.3	85.1	86.9	89.2	91.1	93.4	96.0	94.5	93.2	90.9	85.9	82.7						
40	58.5	59.5	59.9	62.4	63.2	64.7	65.7	65.3	64.3	62.4	60.4	58.1						
45	44.1	45.4	45.3	46.8	46.8	47.1	47.6	48.3	48.1	46.6	45.6	43.5						
50	33.3	34.1	35.3	36.1	36.1	37.2	37.1	36.2	36.0	34.6	33.5	33.1						
55	23.3	24.3	25.1	25.7	25.6	25.9	25.4	24.9	25.0	24.1	23.5	23.1						
60	13.6	14.4	15.2	15.8	15.8	15.8	15.3	14.6	14.6	13.9	13.6	13.3						
65	7.06	7.34	7.80	8.10	8.23	8.27	7.82	7.46	7.60	7.25	7.03	7.07						
70	2.85	3.05	3.43	3.64	3.78	3.87	3.55	3.25	3.38	3.06	2.88	2.89						
75	0.15	0.15	0.21	0.38	0.45	0.52	0.42	0.29	0.21	0.15	0.12	0.12						
80	0.05	0.03	0.03	0.05	0.04	0.04	0.04	0.03	0.02	0.04	0.02	0.02						
85	0.04	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.01	0.01						
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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