

### Luminaire Photograph



Light Output Ratio:	62.9%	
Luminaire Power:	2.63 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.95	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-5-4

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-30G-11H-3A-00-0-0 Ra: 90  
LENS: LL01ZZ-AF C10L06 60R  
NO DRIVER: DC24V 700mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

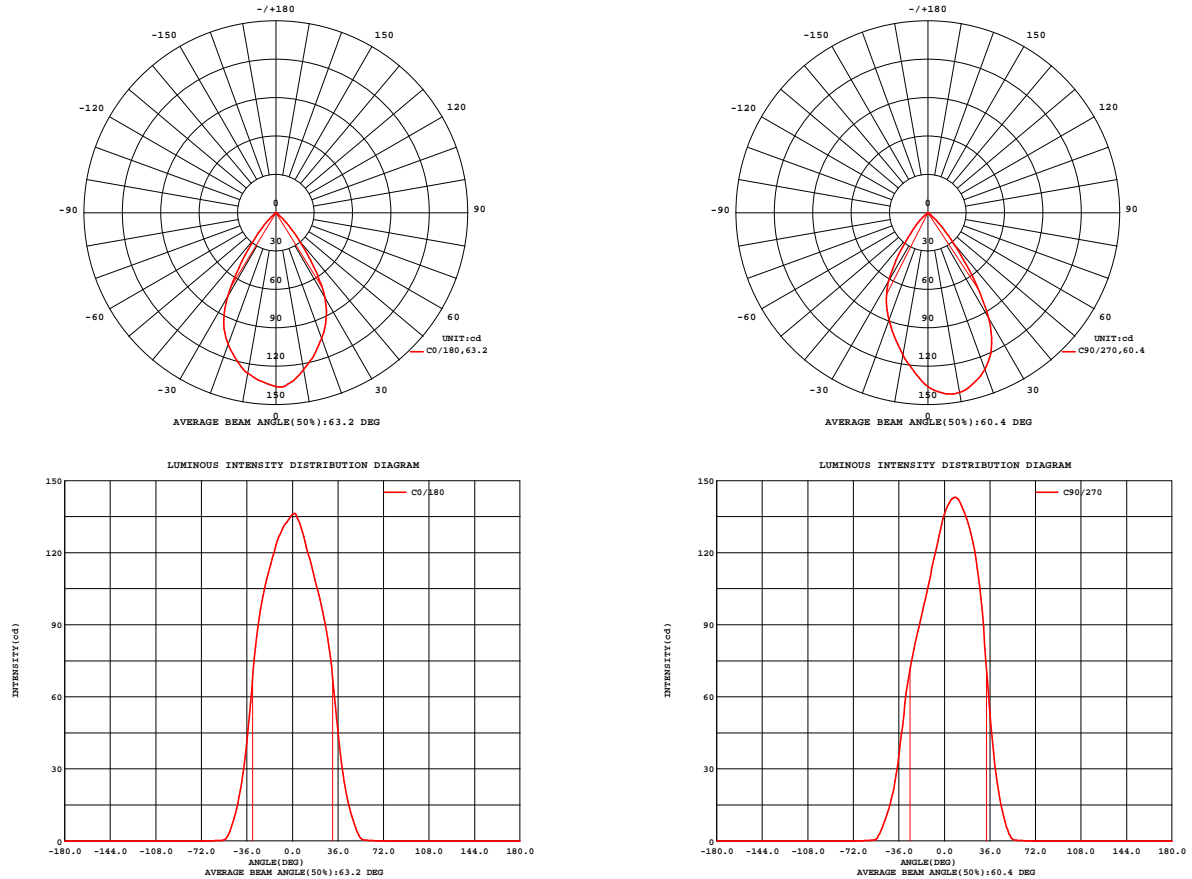


Fig. C0/C180

Fig. C90/C270

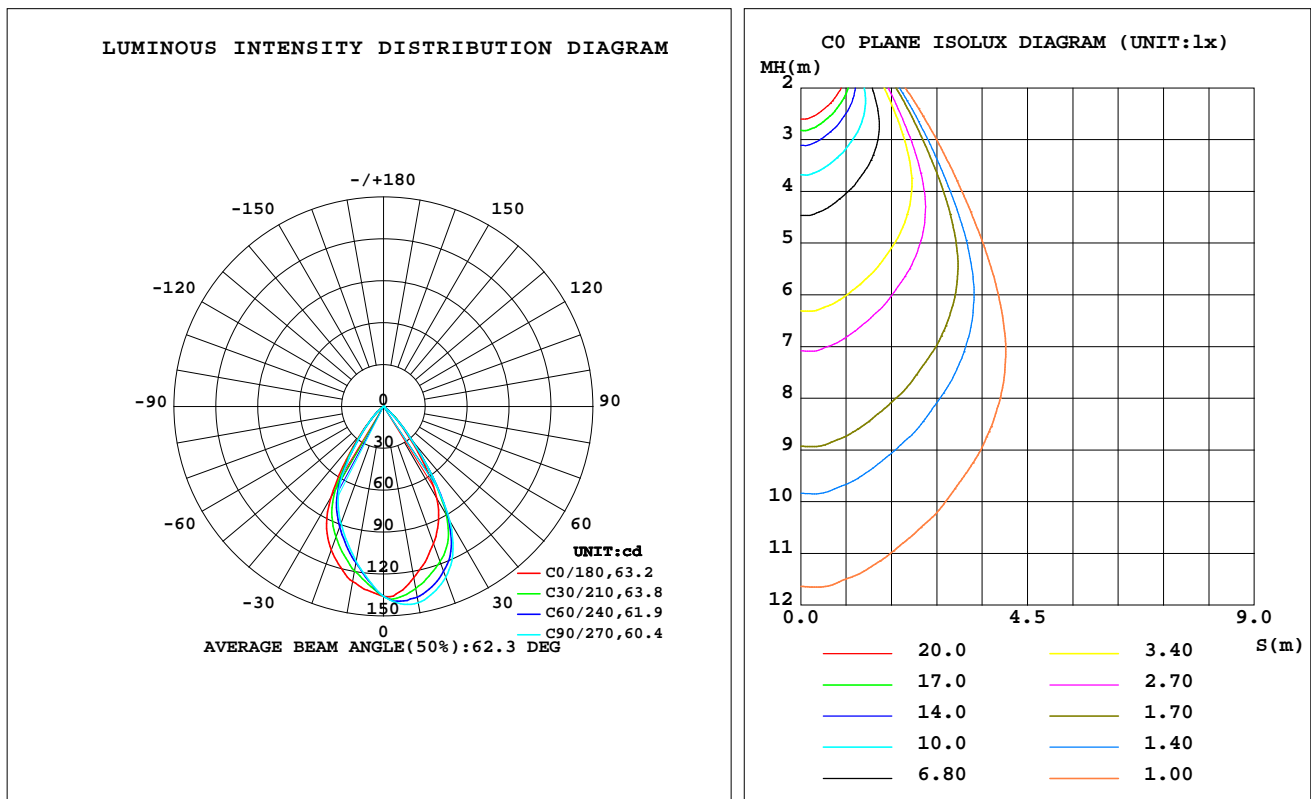
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30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.998V I:0.1096A P:2.6302W PF:1.0000 Freq:49.99Hz Lamp Flux:209.67x1 lm		
NAME: 2417.202	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2405040525
MFR.: RISE	SUR.: 0.000346185m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 50.14 lm/W			
MODEL	Brideglux	I <sub>max</sub> (cd)	143.0	S/MH(C0/180)	0.92
NOMINAL POWER(W)	2.6	LOR(%)	62.9	S/MH(C90/270)	0.80
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	131.89	UP,DN(C0-180)	0.0,34.9
NOMINAL FLUX(lm)	209.67	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,28.0
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	down(%)	62.9	CIBSE SHR MAX	0.95



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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
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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	124.5	135.5	142.6	138.8	127.3	116.6	112.9	116.5	0- 10	12.49	12.49	9.47,5.96
20	104.5	122.0	130.3	122.9	109.4	95.70	89.07	92.79	10- 20	33.17	45.67	34.6,21.8
30	76.77	92.09	95.48	85.62	75.72	66.09	61.70	66.89	20- 30	43.57	89.24	67.7,42.6
40	28.48	32.44	31.42	27.17	24.38	21.90	21.39	24.81	30- 40	31.17	120.4	91.3,57.4
50	5.472	5.631	4.678	3.445	3.127	3.337	4.333	5.028	40- 50	10.41	130.8	99.2,62.4
60	0.2411	0.2265	0.1887	0.1642	0.1623	0.1893	0.2184	0.2343	50- 60	0.9870	131.8	99.9,62.9
70	0.0138	0.0110	0.0034	0.0000	0	0.0016	0.0073	0.0116	60- 70	0.0870	131.9	100,62.9
80	0	0	0	0	0	0	0	0	70- 80	0.0004	131.9	100,62.9
90	0	0	0	0	0	0	0	0	80- 90	0	131.9	100,62.9
100	0	0	0	0	0	0	0	0	90-100	0	131.9	100,62.9
110	0	0	0	0	0	0	0	0	100-110	0	131.9	100,62.9
120	0	0	0	0	0	0	0	0	110-120	0	131.9	100,62.9
130	0	0	0	0	0	0	0	0	120-130	0	131.9	100,62.9
140	0	0	0	0	0	0	0	0	130-140	0	131.9	100,62.9
150	0	0	0	0	0	0	0	0	140-150	0	131.9	100,62.9
160	0	0	0	0	0	0	0	0	150-160	0	131.9	100,62.9
170	0	0	0	0	0	0	0	0	160-170	0	131.9	100,62.9
180	0	0	0	0	0	0	0	0	170-180	0	131.9	100,62.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Temperature:25.3℃  
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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-30G-11H-3A-00-0-0 Ra:90  
LENS:LL01ZZ-AF C10L06 60R  
NO DRIVER:DC24V 700mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:23.998V I:0.1096A P:2.6302W PF:1.0000 Freq:49.99Hz  
Lamp Flux:209.67x1 lm

NAME: 2417.202

TYPE:

WEIGHT:

SPEC.: 3000K

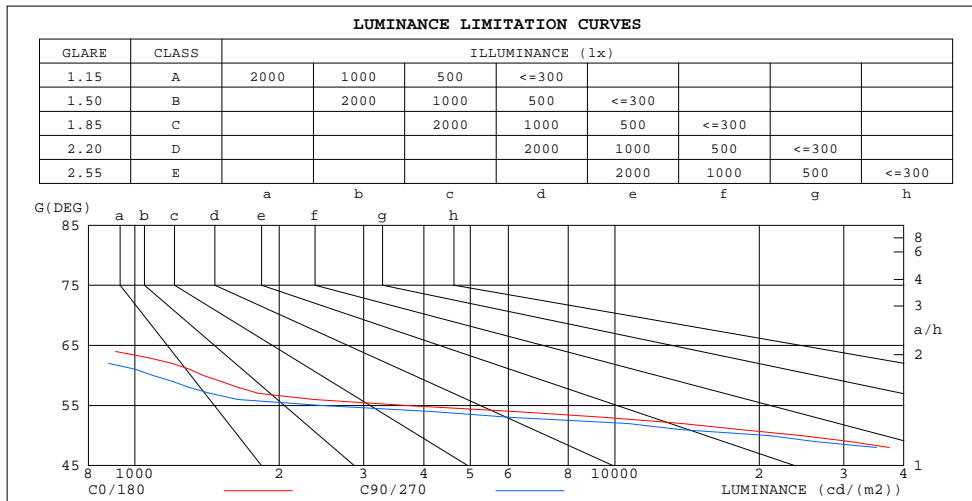
DIM.:

SERIAL No.: 2405040525

MFR.: RISE

SUR.: 0.000346185m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	116	28
65	772	525
60	1389	1091
55	3703	2472
50	24522	21045
45	58100	59703

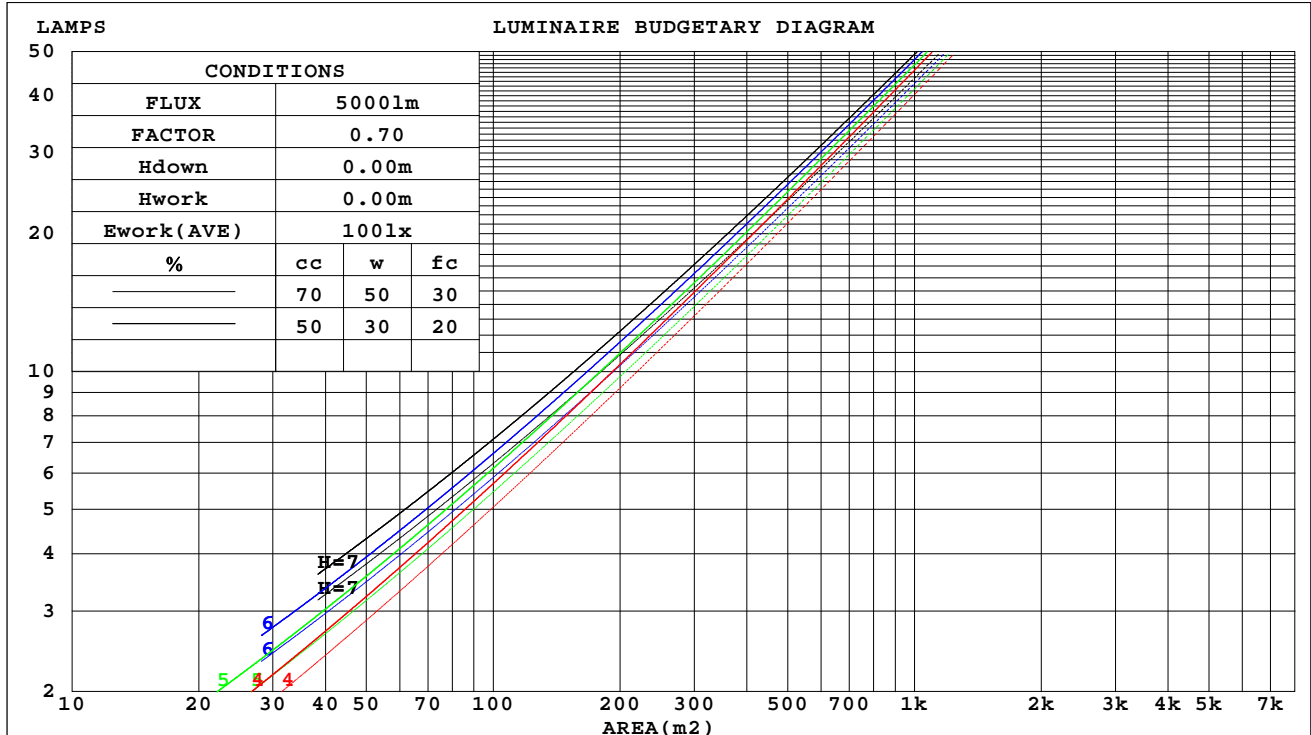
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.998V I:0.1096A P:2.6302W PF:1.0000 Freq:49.99Hz Lamp Flux:209.67x1 lm		
NAME: 2417.202	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2405040525
MFR.: RISE	SUR.: 0.000346185m2	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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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-30G-11H-3A-00-0-0 Ra:90  
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30minutes warm-up

### WEC AND CCEC

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NAME: 2417.202	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2405040525
MFR.: RISE	SUR.: 0.000346185m2	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	.113	.064	.020	.109	.062	.020	.101	.058	.019	.094	.054	.017	.087	.050	.016	
2.0	.109	.060	.018	.106	.058	.018	.099	.055	.017	.093	.052	.016	.087	.049	.016	
3.0	.104	.056	.017	.101	.054	.016	.096	.052	.016	.090	.050	.015	.085	.047	.015	
4.0	.100	.052	.015	.097	.051	.015	.092	.049	.015	.088	.047	.014	.083	.045	.014	
5.0	.095	.049	.014	.093	.048	.014	.089	.046	.014	.085	.045	.013	.081	.043	.013	
6.0	.091	.046	.013	.089	.045	.013	.085	.044	.013	.082	.043	.012	.078	.041	.012	
7.0	.087	.043	.012	.086	.043	.012	.082	.042	.012	.079	.040	.012	.076	.039	.012	
8.0	.084	.041	.011	.082	.040	.011	.079	.039	.011	.076	.039	.011	.073	.038	.011	
9.0	.080	.039	.011	.079	.038	.011	.076	.038	.011	.073	.037	.011	.071	.036	.010	
10.0	.077	.037	.010	.076	.037	.010	.073	.036	.010	.071	.035	.010	.069	.035	.010	

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	.120	.120	.120	.102	.102	.102	.070	.070	.070	.040	.040	.040	.013	.013	.013	
1.0	.108	.099	.091	.092	.085	.078	.063	.058	.054	.036	.034	.031	.012	.011	.010	
2.0	.098	.083	.071	.084	.072	.061	.058	.050	.043	.033	.029	.025	.011	.009	.008	
3.0	.091	.071	.056	.078	.062	.049	.053	.043	.034	.031	.025	.020	.010	.008	.007	
4.0	.085	.062	.045	.073	.054	.039	.050	.037	.028	.029	.022	.016	.009	.007	.005	
5.0	.079	.055	.037	.068	.048	.032	.047	.033	.023	.027	.020	.013	.009	.006	.004	
6.0	.075	.049	.031	.064	.043	.027	.044	.030	.019	.026	.018	.011	.008	.006	.004	
7.0	.071	.045	.026	.061	.039	.023	.042	.027	.016	.024	.016	.010	.008	.005	.003	
8.0	.067	.041	.022	.058	.035	.019	.040	.025	.014	.023	.015	.008	.008	.005	.003	
9.0	.064	.037	.019	.055	.033	.017	.038	.023	.012	.022	.013	.007	.007	.004	.002	
10.0	.062	.035	.017	.053	.030	.015	.037	.021	.010	.021	.013	.006	.007	.004	.002	

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Test Distance:3.160m [K=1.0000]  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:23.998V I:0.1096A P:2.6302W PF:1.0000 Freq:49.99Hz Lamp Flux:209.67x1 lm										
NAME: 2417.202					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2405040525		
MFR.: RISE					SUR.: 0.000346185m2			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	28.6	29.6	28.8	29.8	29.9	29.0	30.0	29.3	30.2	30.4
3H	28.4	29.3	28.7	29.5	29.7	28.9	29.8	29.1	30.0	30.2
4H	28.4	29.2	28.6	29.4	29.6	28.8	29.6	29.1	29.8	30.1
6H	28.3	29.1	28.6	29.3	29.5	28.7	29.5	29.0	29.7	30.0
8H	28.2	29.0	28.5	29.2	29.5	28.6	29.4	29.0	29.7	29.9
12H	28.2	28.9	28.5	29.2	29.4	28.6	29.3	28.9	29.6	29.9
4H 2H	28.4	29.2	28.6	29.4	29.6	28.8	29.6	29.1	29.8	30.1
3H	28.2	28.9	28.5	29.2	29.4	28.6	29.3	28.9	29.6	29.9
4H	28.1	28.7	28.4	29.0	29.3	28.5	29.2	28.9	29.5	29.8
6H	28.0	28.6	28.4	28.9	29.2	28.4	29.0	28.8	29.3	29.7
8H	27.9	28.5	28.3	28.8	29.2	28.4	28.9	28.8	29.2	29.6
12H	27.9	28.4	28.3	28.7	29.1	28.3	28.8	28.7	29.2	29.6
8H 4H	27.9	28.5	28.3	28.8	29.2	28.4	28.9	28.8	29.2	29.6
6H	27.8	28.3	28.3	28.7	29.1	28.3	28.7	28.7	29.1	29.5
8H	27.8	28.2	28.2	28.6	29.0	28.2	28.6	28.7	29.0	29.4
12H	27.7	28.1	28.2	28.5	29.0	28.1	28.5	28.6	28.9	29.4
12H 4H	27.9	28.4	28.3	28.7	29.1	28.3	28.8	28.7	29.2	29.6
6H	27.8	28.2	28.2	28.6	29.0	28.2	28.6	28.7	29.0	29.4
8H	27.7	28.1	28.2	28.5	29.0	28.1	28.5	28.6	28.9	29.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.8 / -23.1					+ 3.1 / -24.8				
1.5H	+ 4.5 / -18.3					+ 5.2 / -20.8				
2.0H	+ 7.0 / -18.9					+ 7.4 / -19.8				

CIE Pub.117, 209.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.4)  
Area: 0.000346185 m2

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30minutes warm-up



### UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.000346185m2	Shielding Angle:

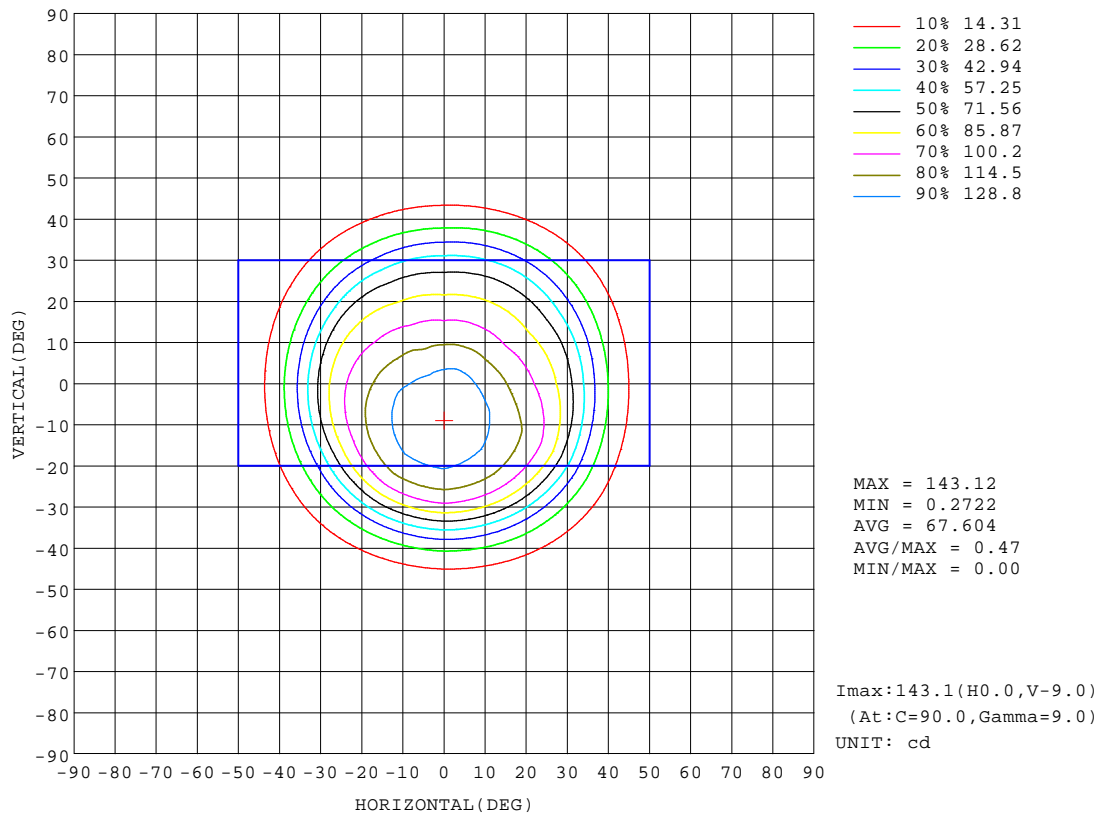
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	50	48	54	50	47	53	50	47	45
0.80	59	55	53	59	55	53	58	55	52	50
1.00	62	58	56	62	58	56	61	58	56	53
1.25	65	61	59	64	61	59	63	60	58	56
1.50	66	63	61	66	63	61	64	62	60	57
2.00	68	66	64	67	65	63	66	64	62	59
2.50	69	67	65	68	66	64	66	65	63	59
3.00	70	68	66	69	67	66	67	66	64	60
4.00	72	70	68	70	69	67	68	67	66	61
5.00	72	71	70	71	70	69	68	68	67	62
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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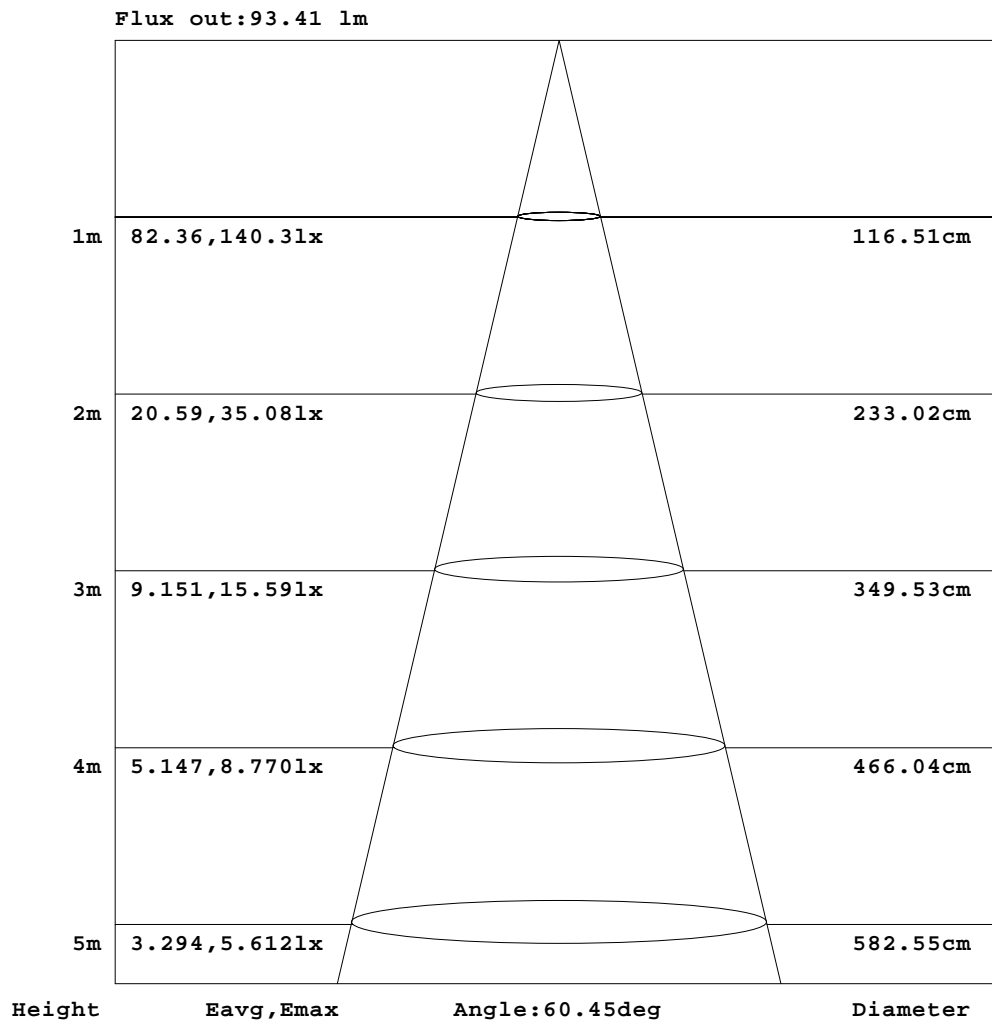


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## AAI Figure

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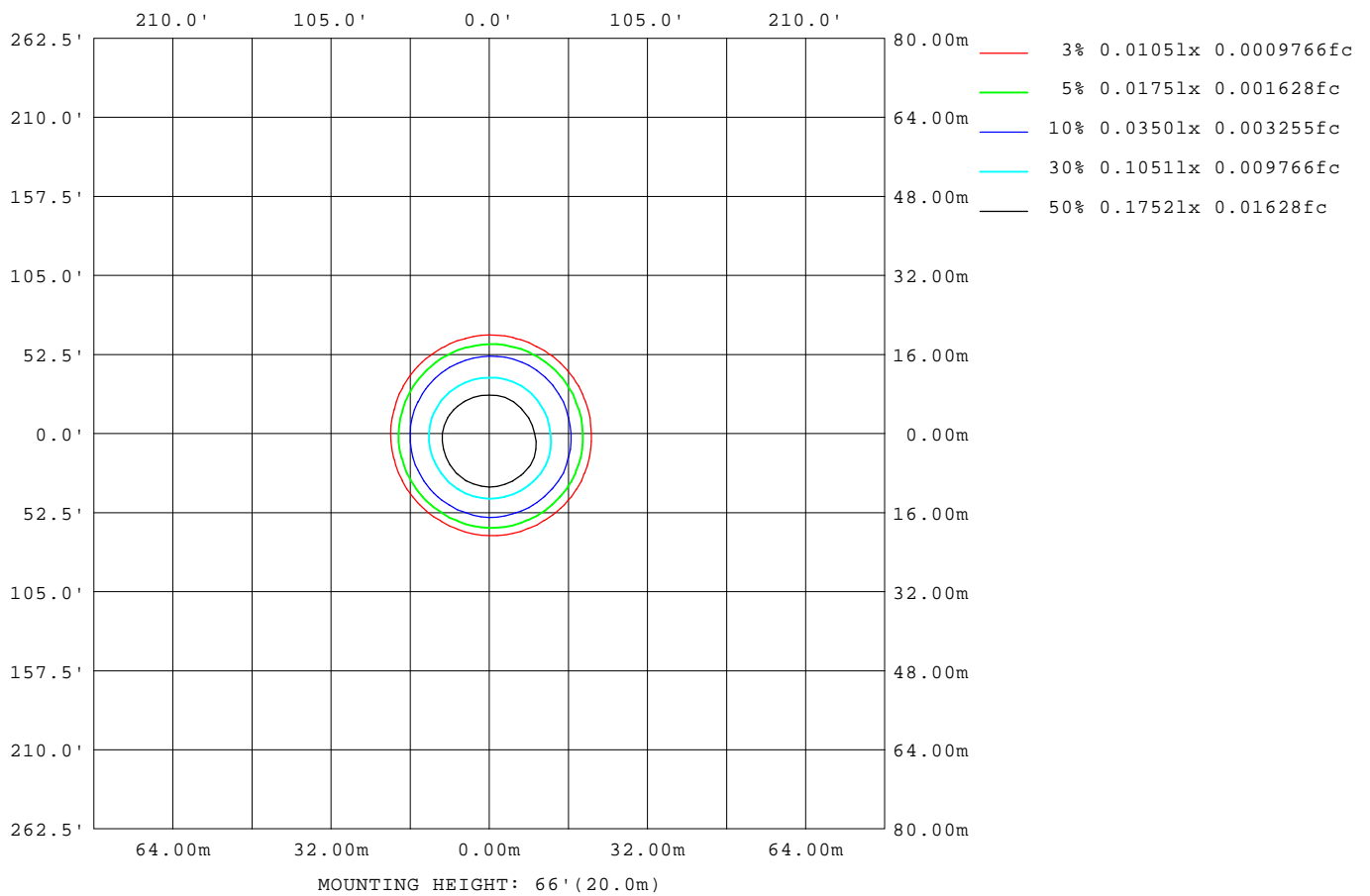
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Operators: zoe  
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NO DRIVER: DC24V 700mA  
30minutes warm-up

## ISOLUX DIAGRAM

Test:U:23.998V I:0.1096A P:2.6302W PF:1.0000 Freq:49.99Hz Lamp Flux:209.67x1 lm		
NAME: 2417.202	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2405040525
MFR.: RISE	SUR.: 0.000346185m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-5-4

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-30G-11H-3A-00-0-0 Ra:90  
LENS:LL01ZZ-AF C10L06 60R  
NO DRIVER:DC24V 700mA  
30minutes warm-up

### LED Avg.L Report

Test:U:23.998V I:0.1096A P:2.6302W PF:1.0000 Freq:49.99Hz Lamp Flux:209.67x1 lm		
NAME: 2417.202	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2405040525
MFR.: RISE	SUR.: 0.000346185m2	Shielding Angle:

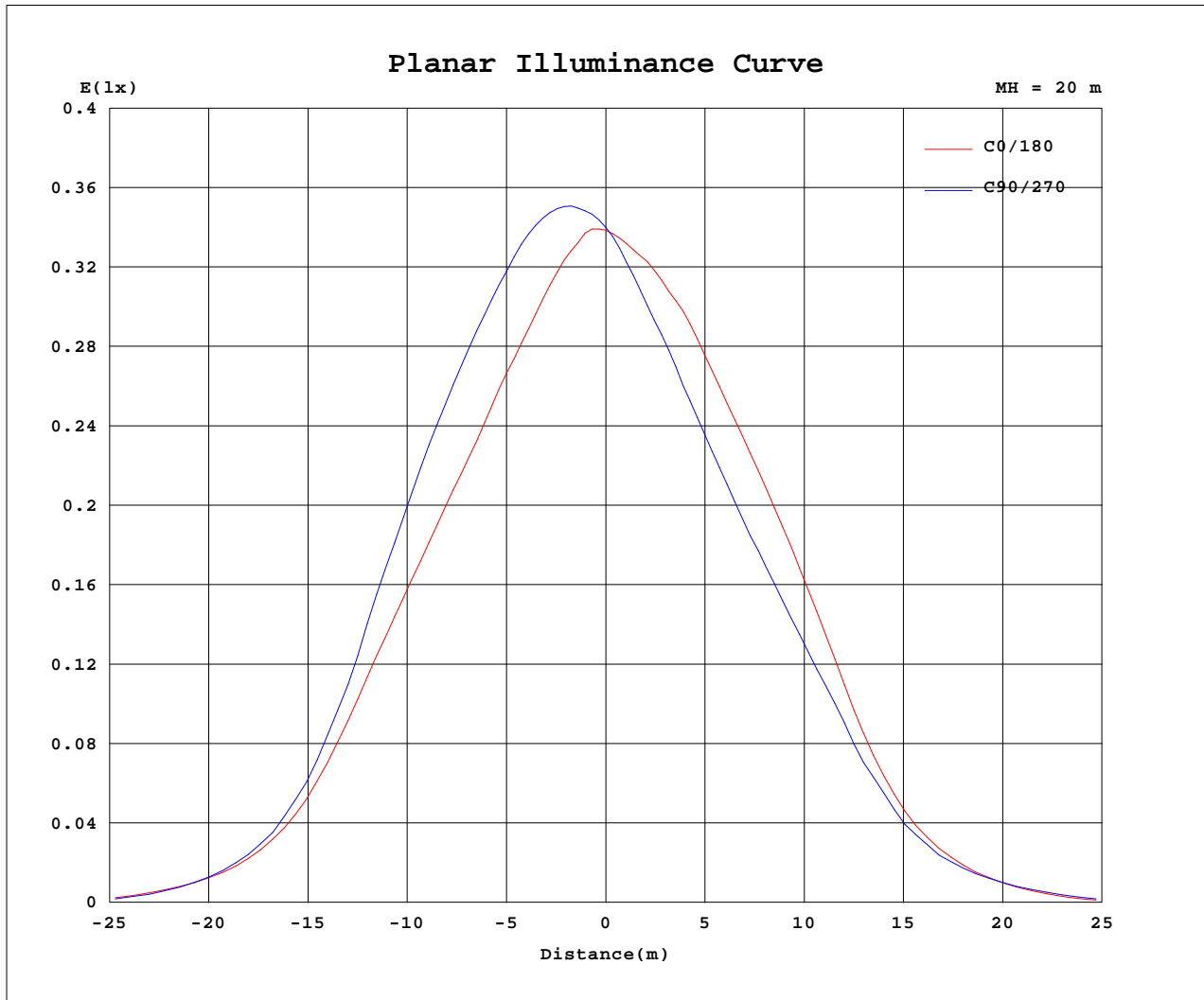
AvgL	cd/m2
L_0~180(65)av	568
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	568
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	555
L_45(75)av	0
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-5-4

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-30G-11H-3A-00-0-0 Ra:90  
LENS:LL01ZZ-AF C10L06 60R  
NO DRIVER:DC24V 700mA  
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: 2024-5-4

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-30G-11H-3A-00-0-0 Ra: 90  
 LENS: LL01ZZ-AF C10L06 60R  
 NO DRIVER: DC24V 700mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.1096A P:2.6302W PF:1.0000 Freq:49.99Hz Lamp Flux:209.67x1 lm		
NAME: 2417.202	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2405040525
MFR.: RISE	SUR.: 0.000346185m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	136	136	136	136	136	136	136	136	136	136	136	136						
5	133	137	140	142	140	137	132	128	125	125	127	129						
10	124	132	139	143	142	136	127	120	114	113	115	118						
15	115	126	134	138	136	128	119	110	103	101	103	106						
20	105	118	126	130	127	118	109	99.5	91.9	89.1	91.0	94.6						
25	92.7	108	114	117	114	103	96.7	87.5	79.9	77.0	80.0	82.9						
30	76.8	90.6	93.5	95.5	90.3	80.9	75.7	69.3	62.9	61.7	65.2	68.6						
35	51.7	61.4	61.2	61.6	56.4	50.0	46.7	42.8	39.7	40.2	43.5	47.0						
40	28.5	32.3	32.6	31.4	28.6	25.8	24.4	22.3	21.5	21.4	24.1	25.5						
45	14.3	15.8	15.3	14.6	12.7	11.9	11.3	11.3	11.1	11.5	12.0	13.4						
50	5.47	5.92	5.34	4.68	3.66	3.23	3.13	2.99	3.68	4.33	4.67	5.38						
55	0.74	0.68	0.62	0.49	0.37	0.34	0.30	0.33	0.39	0.50	0.56	0.62						
60	0.24	0.24	0.21	0.19	0.17	0.16	0.16	0.18	0.20	0.22	0.23	0.23						
65	0.11	0.11	0.09	0.08	0.06	0.05	0.05	0.06	0.07	0.09	0.10	0.11						
70	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01						
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
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						

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
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