

Luminaire Photograph



Light Output Ratio:	66.9%	
Luminaire Power:	23.79 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-10-18

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: BXRE-30G2000-C-83 Ra: 90
LENS: PM-1083A 24R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

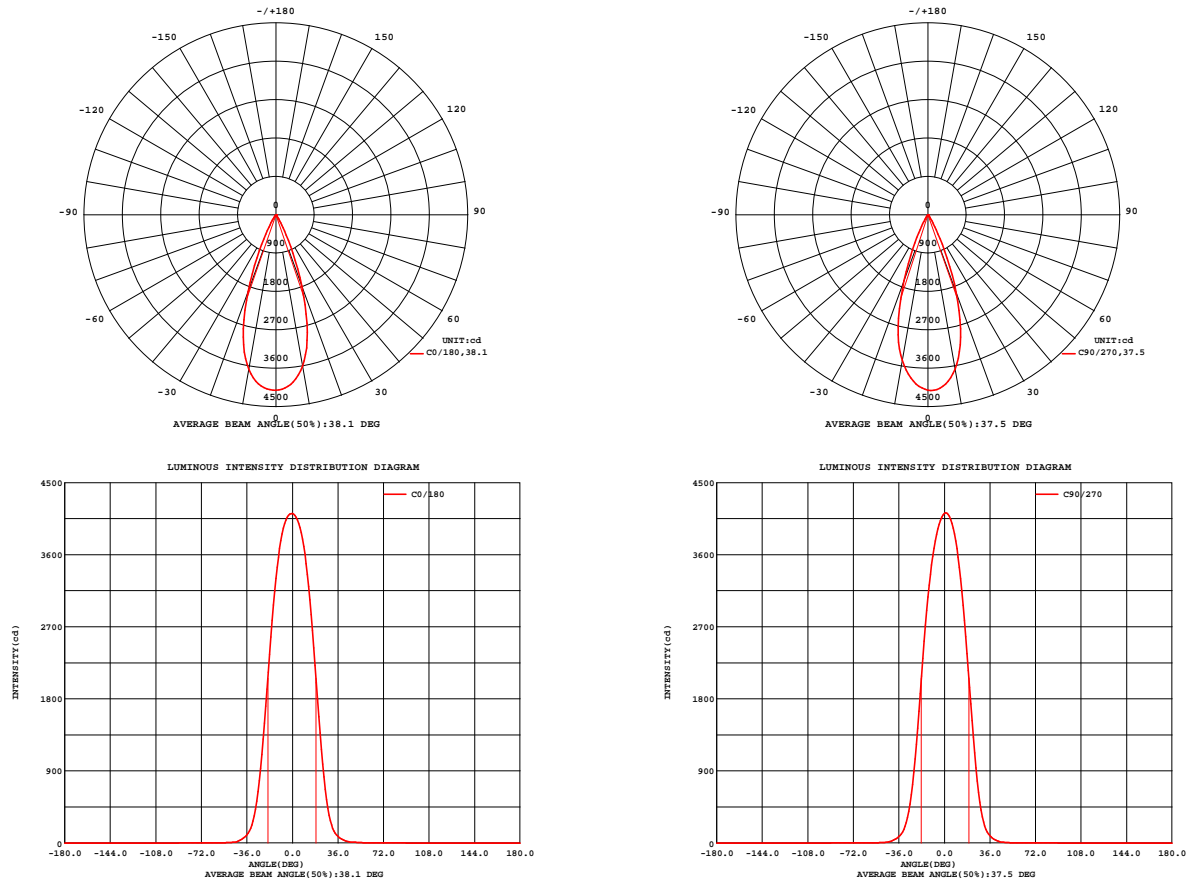


Fig. C0/C180

Fig. C90/C270

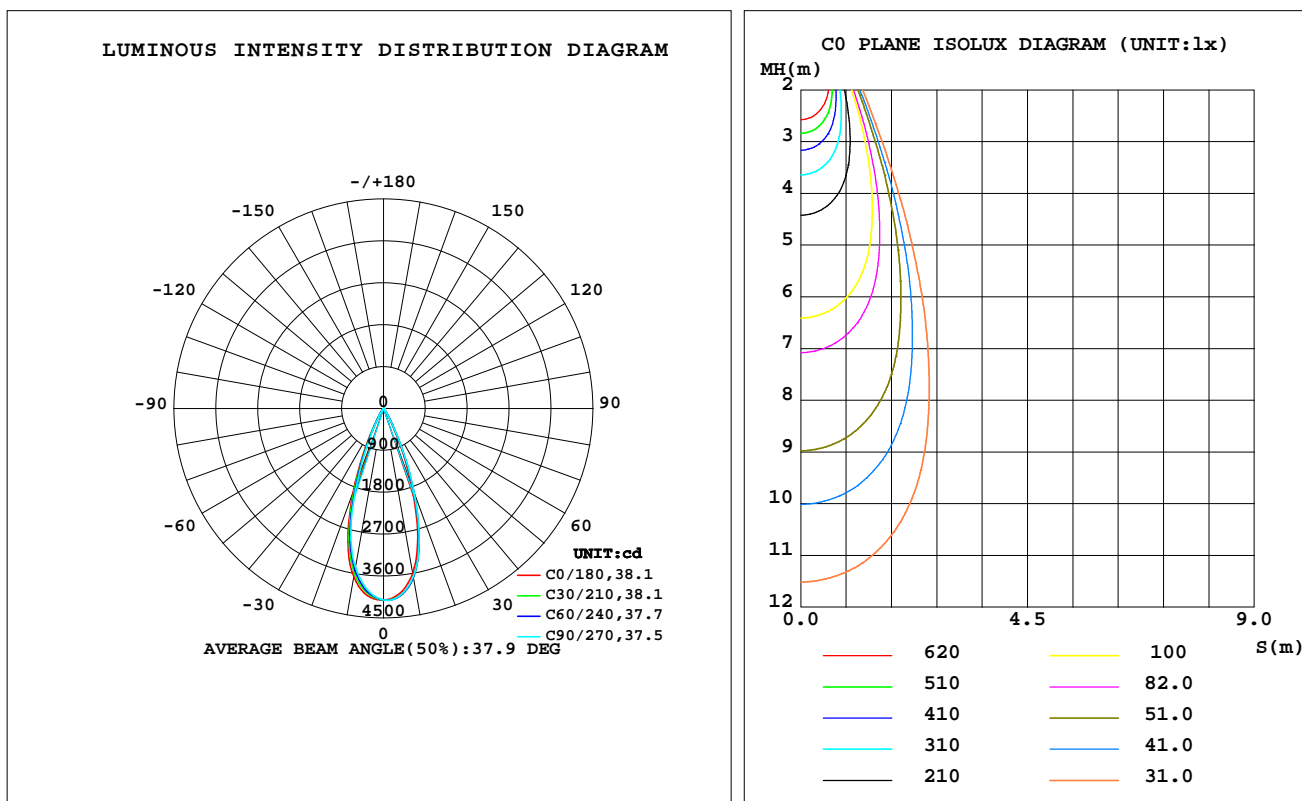
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3 °C
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Test Date: 2023-10-18

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Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
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LENS: PM-1083A 24R
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.16V I:0.1999A P:23.790W PF:0.9891 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181238
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.93 lm/W
MODEL	Bridgelux	I _{max} (cd)	4123	S/MH(C0/180)		0.60
NOMINAL POWER(W)	24	LOR(%)	66.9	S/MH(C90/270)		0.57
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1639.8	η UP,DN(C0-180)		0.0,34.6
NOMINAL FLUX(lm)	2450	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.0,32.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE(V)	120	η down(%)	66.9	CIBSE SHR MAX		0.60



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3603	3690	3676	3673	3678	3570	3473	3491	0- 10	369.0	369.0	22.5,15.1
20	1787	1909	1945	1955	1921	1765	1645	1666	10- 20	770.6	1140	69.5,46.5
30	277.5	319.5	325.5	333.7	339.2	296.6	255.3	248.0	20- 30	407.5	1547	94.4,63.2
40	40.75	42.11	42.02	43.83	46.04	42.39	36.70	35.57	30- 40	77.65	1625	99.1,66.3
50	8.109	5.515	5.616	6.495	5.615	5.506	5.351	5.526	40- 50	12.13	1637	99.8,66.8
60	0.6932	0.6366	0.6769	0.8093	0.4785	0.4219	0.5499	0.8477	50- 60	2.165	1639	100,66.9
70	0.2735	0.2067	0.1404	0.2041	0.2271	0.1903	0.1579	0.2103	60- 70	0.4336	1640	100,66.9
80	0.1077	0.0749	0.0657	0.0696	0.1020	0.0678	0.0698	0.0632	70- 80	0.1234	1640	100,66.9
90	0	0	0	0	0	0	0	0	80- 90	0.0508	1640	100,66.9
100	0	0	0	0	0	0	0	0	90-100	0	1640	100,66.9
110	0	0	0	0	0	0	0	0	100-110	0	1640	100,66.9
120	0	0	0	0	0	0	0	0	110-120	0	1640	100,66.9
130	0	0	0	0	0	0	0	0	120-130	0	1640	100,66.9
140	0	0	0	0	0	0	0	0	130-140	0	1640	100,66.9
150	0	0	0	0	0	0	0	0	140-150	0	1640	100,66.9
160	0	0	0	0	0	0	0	0	150-160	0	1640	100,66.9
170	0	0	0	0	0	0	0	0	160-170	0	1640	100,66.9
180	0	0	0	0	0	0	0	0	170-180	0	1640	100,66.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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LENS:PM-1083A 24R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.16V I:0.1999A P:23.790W PF:0.9891 Freq:59.98Hz
Lamp Flux:2450x1 lm

NAME: 2318.137-ACOT-84-AM

TYPE:

WEIGHT:

SPEC.: 3000K

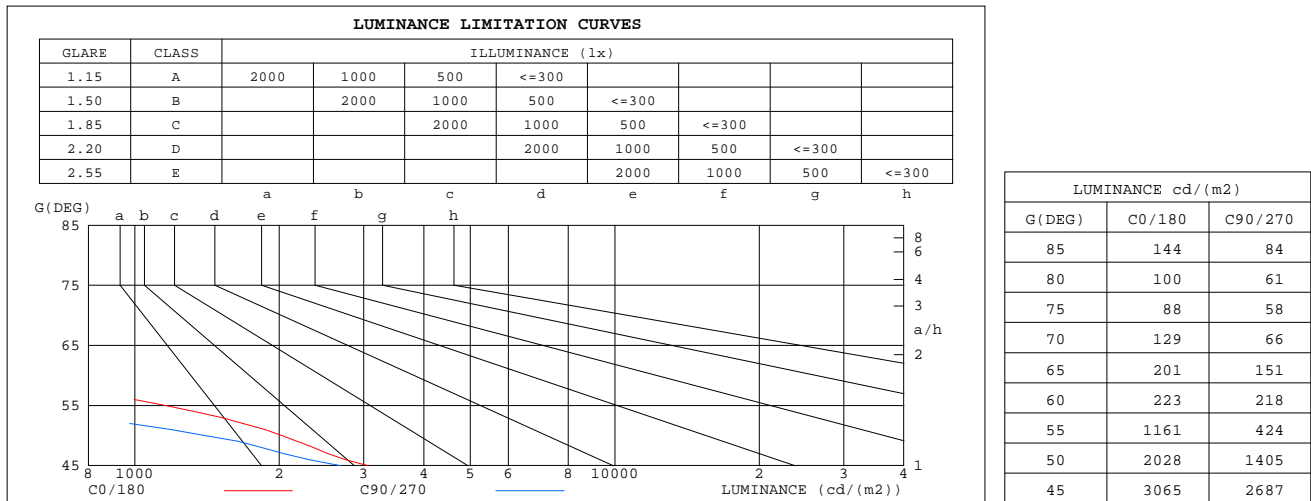
DIM.:

SERIAL No.: 2310181238

MFR.: RISE

SUR.: 0.006217985m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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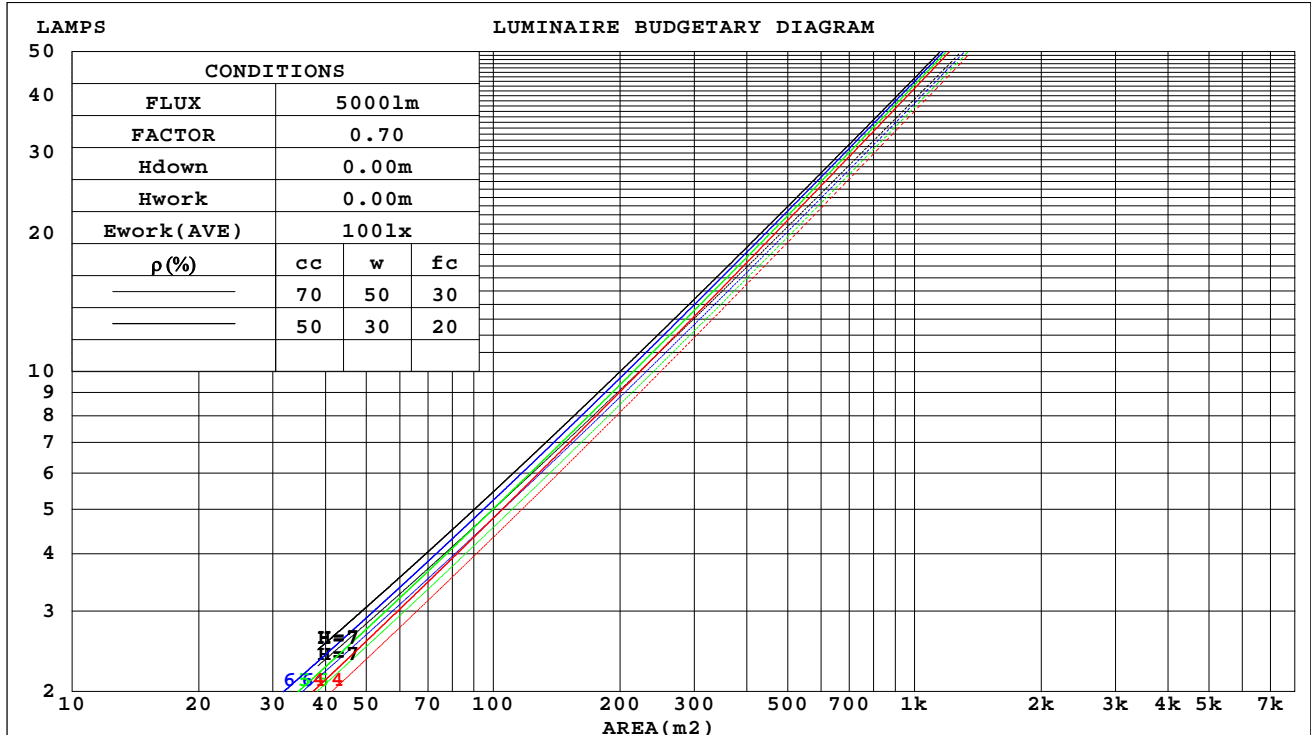
SERIAL No.: 2310181238

MFR.: RISE

SUR.: 0.006217985m2

Shielding Angle:

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	.80	.80	.80	.78	.78	.78	.74	.74	.74	.71	.71	.71	.68	.68	.68	.67
1.0	.75	.74	.73	.74	.73	.71	.71	.70	.69	.69	.68	.67	.66	.66	.65	.64
2.0	.71	.69	.67	.70	.68	.67	.68	.66	.65	.66	.65	.64	.64	.63	.62	.61
3.0	.68	.65	.63	.67	.65	.63	.65	.63	.62	.64	.62	.61	.62	.61	.60	.59
4.0	.65	.62	.60	.64	.61	.59	.63	.60	.59	.61	.60	.58	.60	.59	.57	.56
5.0	.62	.59	.57	.61	.59	.56	.60	.58	.56	.59	.57	.55	.58	.56	.55	.54
6.0	.59	.56	.54	.59	.56	.54	.58	.55	.54	.57	.55	.53	.56	.54	.53	.52
7.0	.57	.54	.52	.57	.54	.52	.56	.53	.51	.55	.53	.51	.54	.52	.51	.50
8.0	.55	.52	.50	.54	.52	.49	.54	.51	.49	.53	.51	.49	.53	.51	.49	.48
9.0	.53	.50	.48	.53	.50	.48	.52	.49	.47	.51	.49	.47	.51	.49	.47	.46
10.0	.51	.48	.46	.51	.48	.46	.50	.48	.46	.50	.47	.46	.49	.47	.46	.45



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30minutes warm-up

WEC AND CCEC

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NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181238
MFR.: RISE	SUR.: 0.006217985m2	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	.098	.056	.018	.094	.054	.017	.086	.049	.016	.078	.045	.014	.071	.041	.013	
2.0	.092	.050	.015	.088	.049	.015	.081	.045	.014	.075	.042	.013	.069	.039	.012	
3.0	.086	.046	.014	.083	.045	.013	.078	.042	.013	.072	.040	.012	.067	.037	.012	
4.0	.082	.042	.012	.079	.041	.012	.074	.039	.012	.069	.037	.011	.065	.035	.011	
5.0	.077	.039	.011	.075	.039	.011	.071	.037	.011	.067	.035	.011	.063	.034	.010	
6.0	.074	.037	.011	.072	.036	.010	.068	.035	.010	.065	.034	.010	.061	.032	.010	
7.0	.070	.035	.010	.069	.034	.010	.065	.033	.010	.062	.032	.009	.060	.031	.009	
8.0	.067	.033	.009	.066	.032	.009	.063	.031	.009	.060	.031	.009	.058	.030	.009	
9.0	.064	.031	.009	.063	.031	.009	.061	.030	.009	.058	.029	.008	.056	.028	.008	
10.0	.062	.030	.008	.061	.029	.008	.059	.029	.008	.056	.028	.008	.054	.027	.008	

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	.127	.127	.127	.109	.109	.109	.074	.074	.074	.043	.043	.043	.014	.014	.014		
1.0	.113	.105	.099	.097	.091	.085	.066	.062	.059	.038	.036	.034	.012	.012	.011		
2.0	.101	.089	.078	.087	.076	.068	.060	.053	.047	.034	.031	.028	.011	.010	.009		
3.0	.092	.076	.063	.079	.065	.055	.054	.045	.038	.031	.027	.023	.010	.009	.007		
4.0	.084	.066	.052	.072	.057	.045	.050	.040	.032	.029	.023	.019	.009	.008	.006		
5.0	.077	.058	.043	.066	.050	.037	.046	.035	.026	.026	.020	.016	.009	.007	.005		
6.0	.072	.051	.036	.062	.044	.032	.043	.031	.022	.025	.018	.013	.008	.006	.004		
7.0	.067	.046	.031	.058	.040	.027	.040	.028	.019	.023	.016	.011	.007	.005	.004		
8.0	.063	.041	.026	.054	.036	.023	.037	.025	.016	.022	.015	.010	.007	.005	.003		
9.0	.059	.038	.023	.051	.033	.020	.035	.023	.014	.021	.014	.008	.007	.004	.003		
10.0	.056	.035	.020	.048	.030	.018	.034	.021	.012	.020	.012	.007	.006	.004	.002		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2310181238		
MFR.: RISE					SUR.: 0.006217985m2			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	5.8	6.5	6.0	6.7	6.9	6.1	6.9	6.3	7.0	7.2
3H	5.7	6.3	5.9	6.5	6.7	6.0	6.6	6.2	6.8	7.0
4H	5.6	6.2	5.8	6.4	6.6	5.9	6.5	6.2	6.7	7.0
6H	5.5	6.1	5.8	6.3	6.6	5.8	6.4	6.1	6.6	6.9
8H	5.5	6.0	5.8	6.3	6.5	5.8	6.3	6.1	6.6	6.8
12H	5.4	6.0	5.7	6.2	6.5	5.7	6.3	6.0	6.5	6.8
4H 2H	5.6	6.2	5.8	6.4	6.6	5.9	6.5	6.2	6.7	7.0
3H	5.4	6.0	5.7	6.2	6.5	5.7	6.3	6.0	6.5	6.8
4H	5.3	5.8	5.7	6.1	6.4	5.6	6.1	6.0	6.4	6.7
6H	5.2	5.7	5.6	6.0	6.3	5.5	6.0	5.9	6.3	6.6
8H	5.2	5.6	5.5	5.9	6.3	5.5	5.9	5.9	6.2	6.6
12H	5.1	5.5	5.5	5.9	6.2	5.4	5.8	5.8	6.2	6.6
8H 4H	5.2	5.6	5.5	5.9	6.3	5.5	5.9	5.9	6.2	6.6
6H	5.1	5.4	5.5	5.8	6.2	5.4	5.7	5.8	6.1	6.5
8H	5.0	5.3	5.4	5.7	6.2	5.3	5.6	5.7	6.0	6.5
12H	4.9	5.2	5.4	5.6	6.1	5.2	5.5	5.7	5.9	6.4
12H 4H	5.1	5.5	5.5	5.9	6.2	5.4	5.8	5.8	6.2	6.6
6H	5.0	5.3	5.4	5.7	6.2	5.3	5.6	5.7	6.0	6.5
8H	4.9	5.2	5.4	5.6	6.1	5.2	5.5	5.7	5.9	6.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.7 / -16.8					+ 4.0 / -18.2				
1.5H	+ 6.0 / -13.3					+ 6.6 / -15.4				
2.0H	+ 6.2 / - 9.9					+ 6.6 / - 9.0				

CIE Pub.117, 2450 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.1)
Area: 0.00621798 m2

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UTILIZATION FACTORS TABLE

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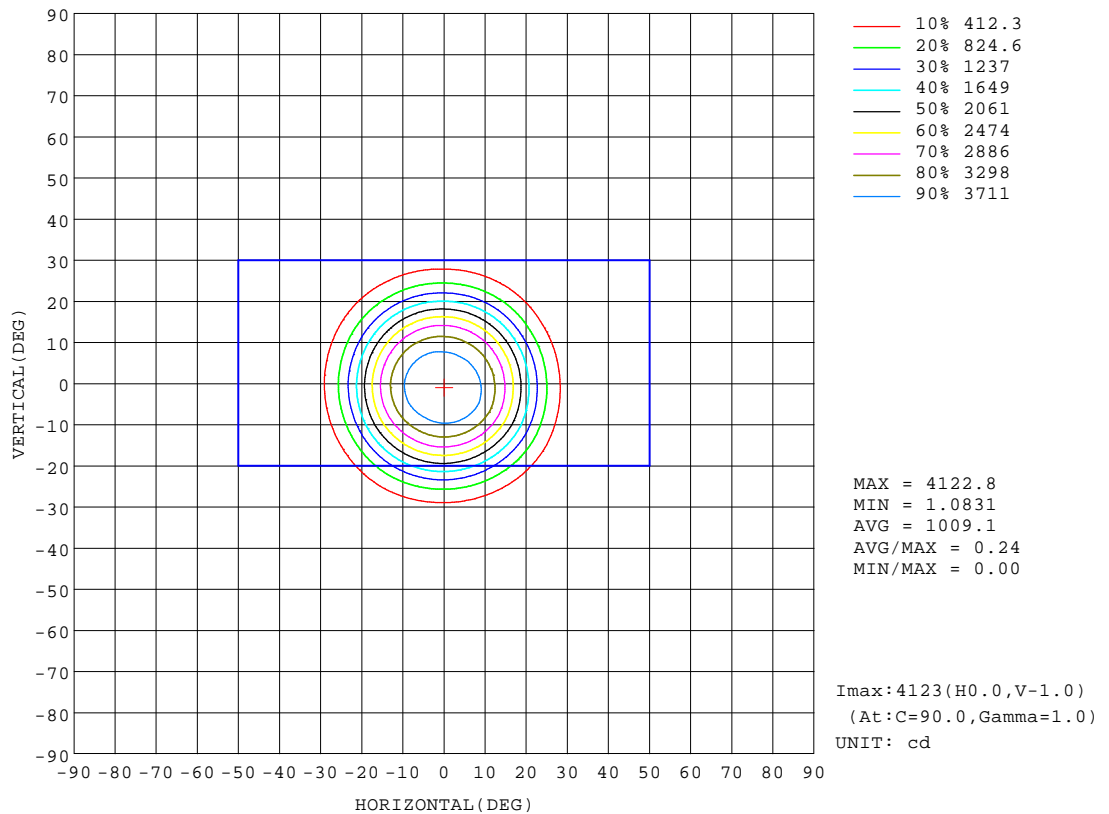
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	57	55	61	57	55	60	57	55	53
0.80	66	62	60	65	62	60	64	61	60	57
1.00	68	65	63	68	64	62	67	64	62	60
1.25	70	67	65	70	67	65	69	66	64	62
1.50	72	69	67	71	69	67	70	68	66	63
2.00	74	71	69	73	70	69	71	69	68	64
2.50	75	72	70	73	71	70	71	70	69	65
3.00	75	73	72	74	72	71	72	71	70	65
4.00	77	75	74	75	74	73	73	72	71	66
5.00	77	76	75	76	75	74	73	73	72	67
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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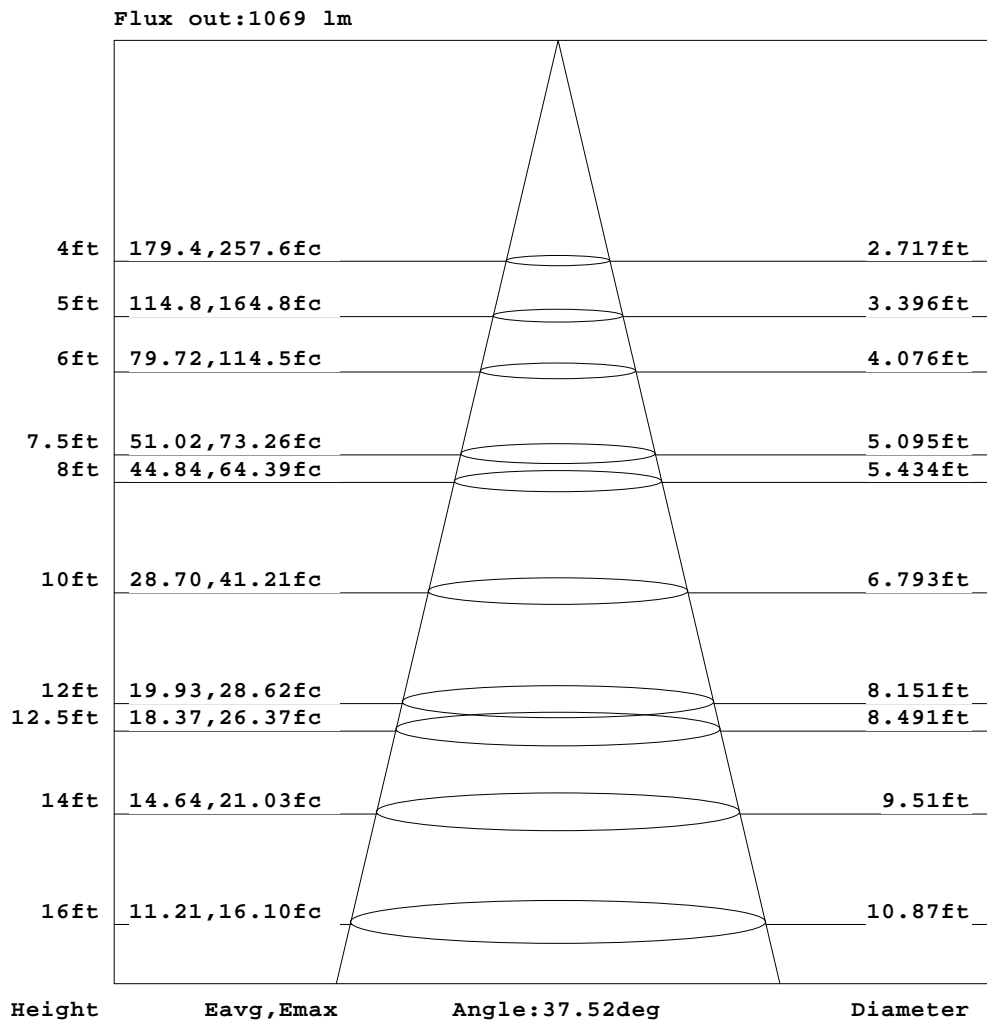


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AAI Figure

Test:U:120.16V I:0.1999A P:23.790W PF:0.9891 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181238
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



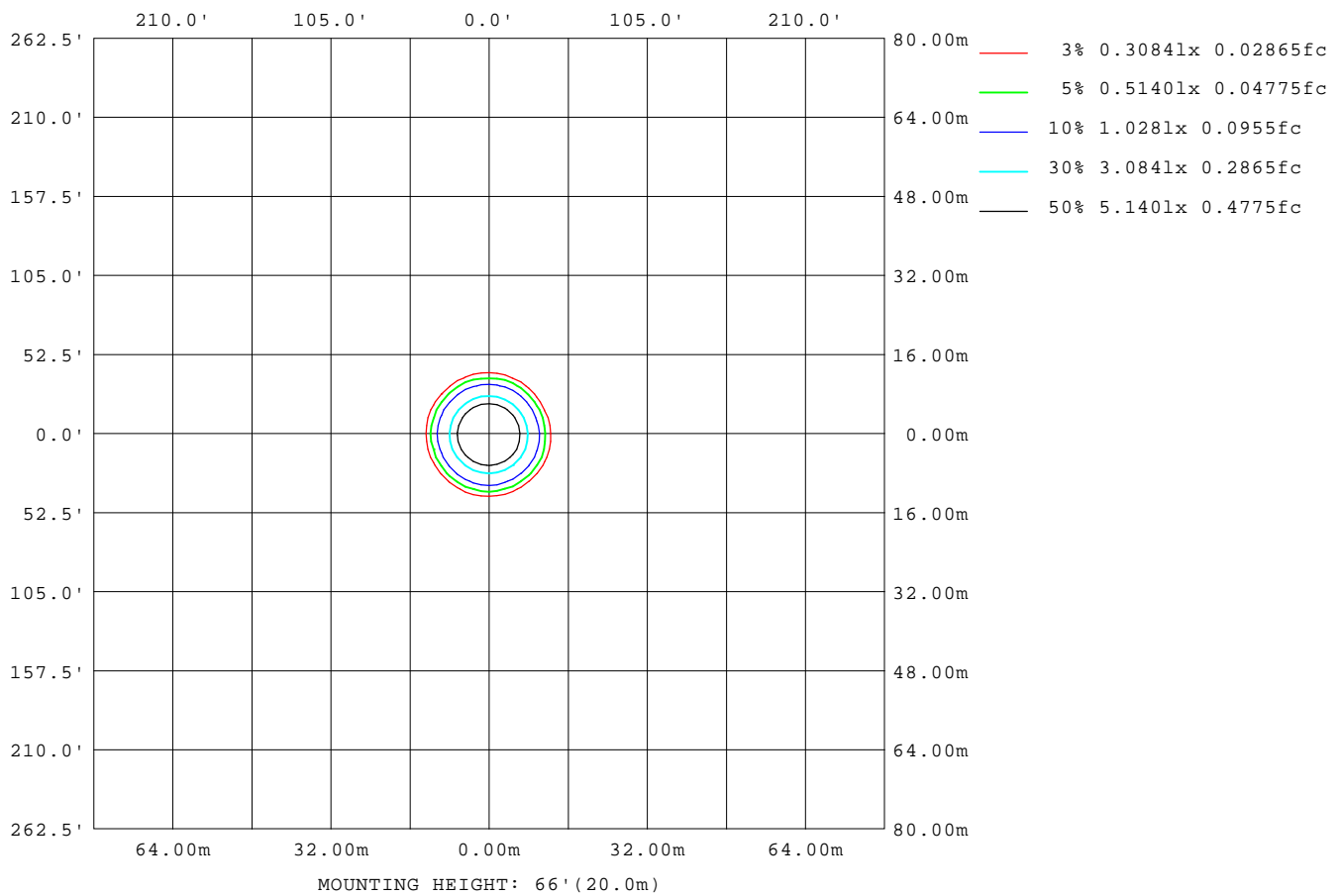
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-10-18

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: BXRE-30G2000-C-83 Ra: 90
LENS: PM-1083A 24R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.16V I:0.1999A P:23.790W PF:0.9891 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181238
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-10-18

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:BXRE-30G2000-C-83 Ra:90
LENS:PM-1083A 24R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

LED Avg.L Report

Test:U:120.16V I:0.1999A P:23.790W PF:0.9891 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181238
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

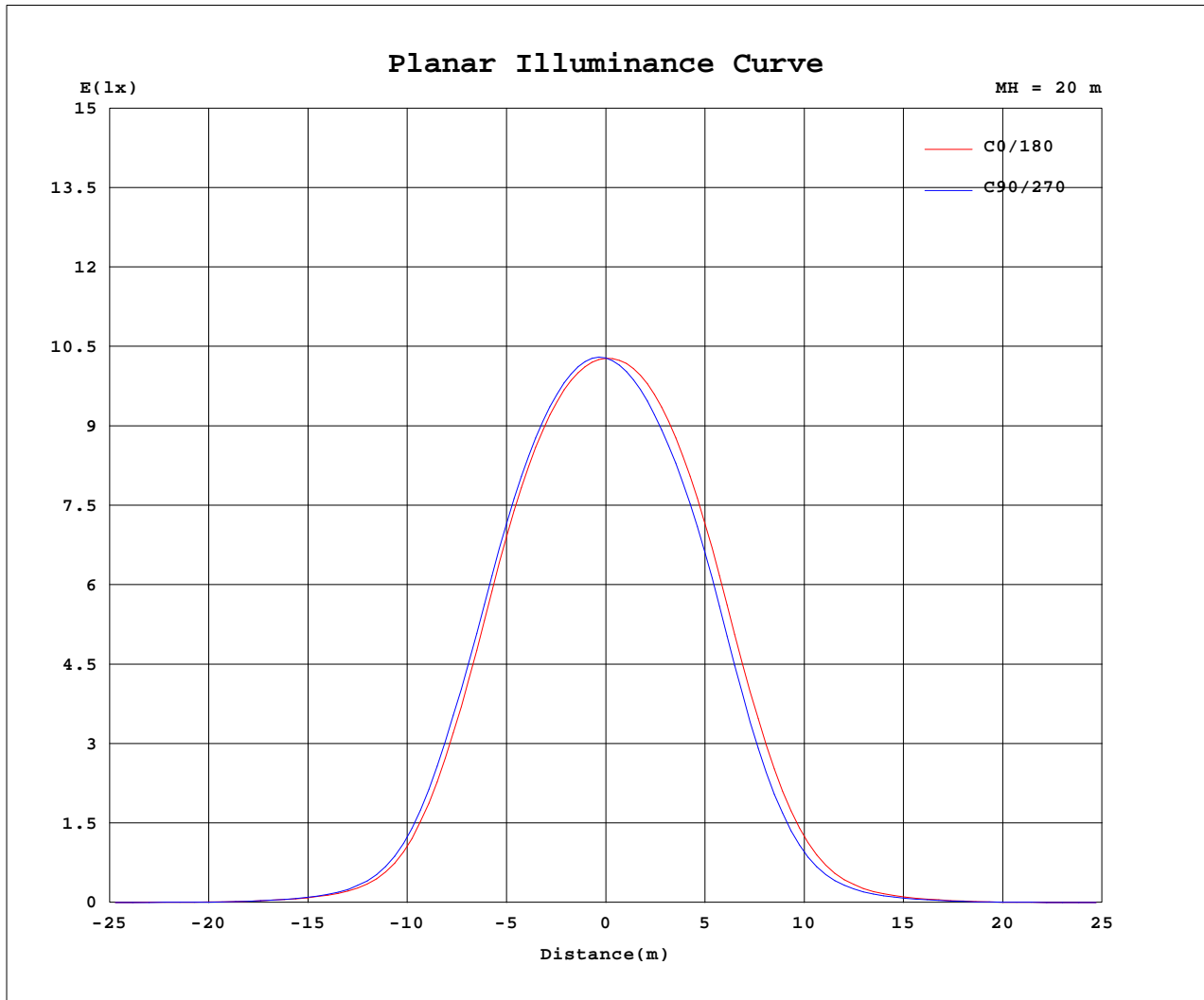
AvgL	cd/m2
L_0~180(65)av	171
L_0~180(75)av	86
L_0~180(85)av	135
L_90~270(65)av	134
L_90~270(75)av	61
L_90~270(85)av	83
L_45(65)av	180
L_45(75)av	64
L_45(85)av	66

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-10-18

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:BXRE-30G2000-C-83 Ra:90
LENS:PM-1083A 24R
DRIVER: PUP40A-1WMC-850 600mA
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: 2023-10-18

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: BXRE-30G2000-C-83 Ra: 90
 LENS: PM-1083A 24R
 DRIVER: PUP40A-1WMC-850 600mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.16V I:0.1999A P:23.790W PF:0.9891 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181238
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4113	4113	4113	4113	4113	4113	4113	4113	4113	4113	4113	4113						
5	3992	4039	4047	4039	4030	4033	4030	3990	3952	3921	3916	3946						
10	3603	3689	3690	3676	3660	3686	3678	3608	3532	3473	3465	3517						
15	2850	2956	2958	2969	2973	2994	2973	2879	2787	2720	2713	2757						
20	1787	1907	1912	1945	1955	1956	1921	1810	1720	1645	1653	1680						
25	827	915	916	939	956	934	932	871	783	730	731	729						
30	277	320	319	326	338	329	339	314	279	255	253	243						
35	102	115	112	113	117	116	122	116	105	95.7	94.4	91.1						
40	40.7	43.0	41.3	42.0	43.5	44.1	46.0	44.4	40.4	36.7	36.0	35.1						
45	13.5	12.2	11.2	11.8	12.1	12.4	11.5	11.3	11.0	10.5	10.2	10.8						
50	8.11	5.92	5.11	5.62	6.39	6.60	5.61	5.61	5.40	5.35	5.34	5.71						
55	4.14	1.97	1.46	1.51	2.15	2.85	1.92	1.72	1.38	1.34	1.96	2.19						
60	0.69	0.64	0.63	0.68	0.87	0.75	0.48	0.40	0.44	0.55	0.84	0.85						
65	0.53	0.51	0.43	0.40	0.53	0.53	0.37	0.32	0.32	0.31	0.50	0.59						
70	0.27	0.25	0.16	0.14	0.17	0.24	0.23	0.22	0.16	0.16	0.17	0.26						
75	0.14	0.12	0.10	0.09	0.10	0.11	0.14	0.11	0.10	0.10	0.09	0.10						
80	0.11	0.08	0.07	0.07	0.06	0.07	0.10	0.07	0.06	0.07	0.06	0.07						
85	0.08	0.05	0.04	0.05	0.04	0.04	0.07	0.04	0.03	0.05	0.03	0.04						
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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