

Luminaire Photograph



Light Output Ratio:	62.9%	
Luminaire Power:	15.78 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: 2023-11-29

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-30G1000-A-83 Ra:90
LENS: PM-1082 15R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

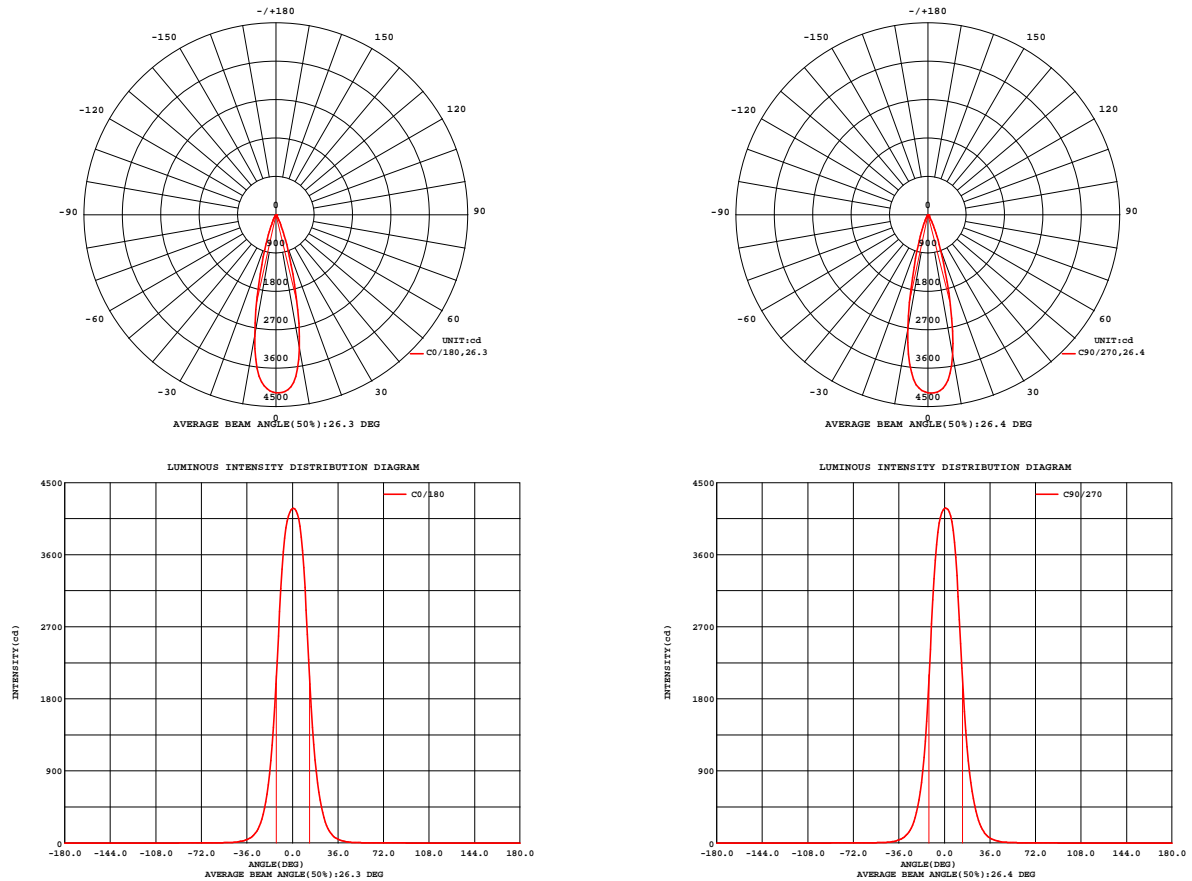


Fig. C0/C180

Fig. C90/C270

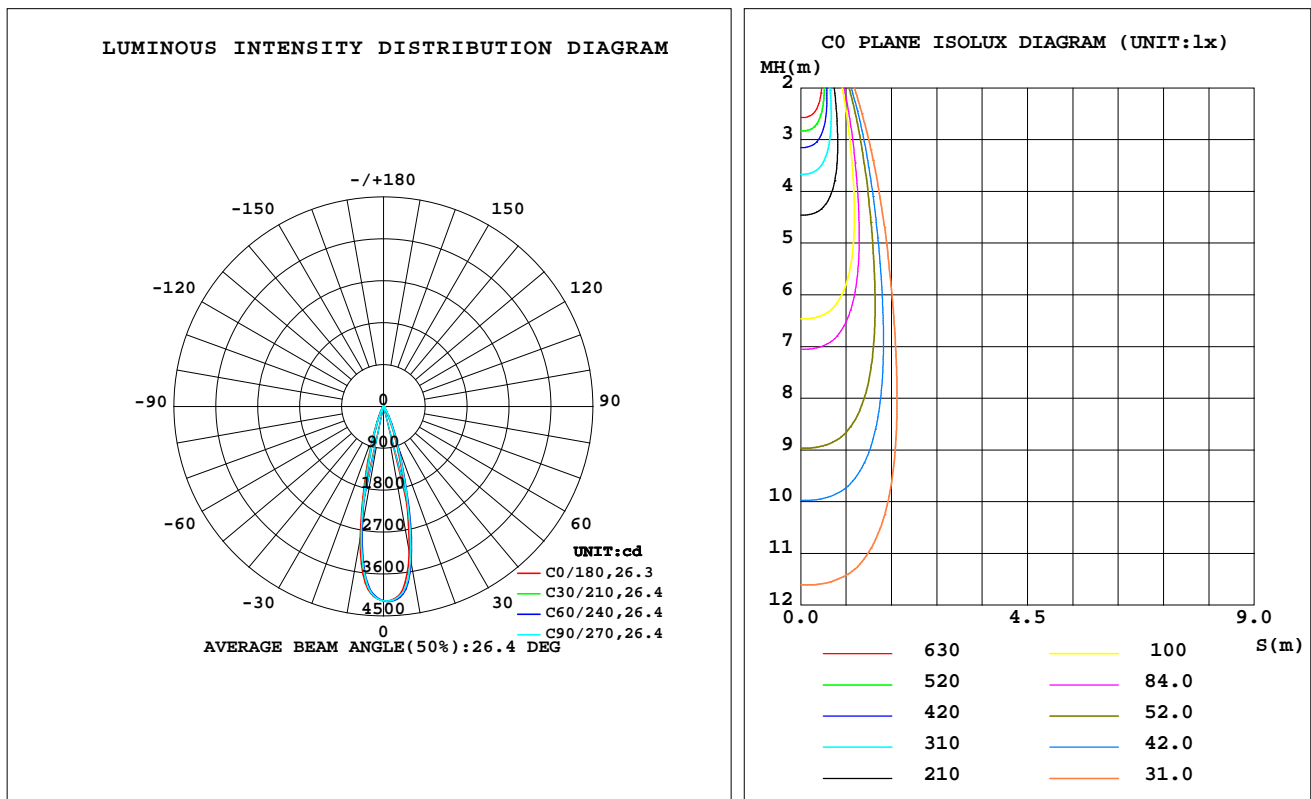
C Range: 0 - 360DEG
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Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1082 15R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.24V I:0.1320A P:15.775W PF:0.9926 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291397
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.95 lm/W			
MODEL	Bridgelux	I _{max} (cd)	4187	S/MH(C0/180)	0.41
NOMINAL POWER(W)	16	LOR(%)	62.9	S/MH(C90/270)	0.39
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	992.99	η UP,DN(C0-180)	0.0,34.6
NOMINAL FLUX(lm)	1579.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,28.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	62.9	CIBSE SHR MAX	0.30



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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-30G1000-A-83 Ra:90
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30minutes warm-up

ZONAL FLUX DIAGRAM

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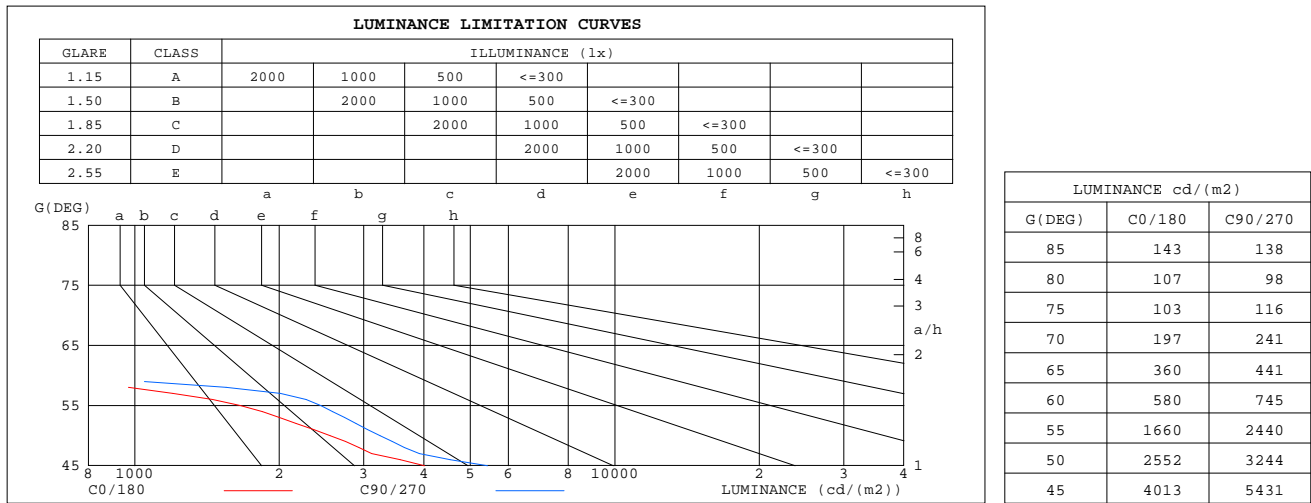
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3191	3379	3337	3081	2888	2702	2735	2984	0- 10	350.7	350.7	35.3,22.2
20	747.4	893.7	876.4	723.7	610.1	530.7	537.3	631.6	10- 20	442.1	792.9	79.8,50.2
30	128.7	164.9	169.3	134.0	106.7	95.33	96.08	111.6	20- 30	147.9	940.8	94.7,59.6
40	26.10	32.86	34.42	27.62	23.42	20.51	19.72	23.20	30- 40	38.52	979.3	98.6,62
50	6.129	7.235	7.792	6.274	6.026	5.323	5.279	6.172	40- 50	9.624	988.9	99.6,62.6
60	1.084	1.287	1.393	1.229	1.089	1.030	1.039	1.039	50- 60	3.277	992.2	99.9,62.8
70	0.2518	0.2871	0.3077	0.2712	0.2414	0.2279	0.2321	0.2380	60- 70	0.6182	992.8	100,62.9
80	0.0695	0.0575	0.0638	0.0502	0.0580	0.0517	0.0578	0.0487	70- 80	0.1212	993.0	100,62.9
90	0	0	0	0	0	0	0	0	80- 90	0.0368	993.0	100,62.9
100	0	0	0	0	0	0	0	0	90-100	0	993.0	100,62.9
110	0	0	0	0	0	0	0	0	100-110	0	993.0	100,62.9
120	0	0	0	0	0	0	0	0	110-120	0	993.0	100,62.9
130	0	0	0	0	0	0	0	0	120-130	0	993.0	100,62.9
140	0	0	0	0	0	0	0	0	130-140	0	993.0	100,62.9
150	0	0	0	0	0	0	0	0	140-150	0	993.0	100,62.9
160	0	0	0	0	0	0	0	0	150-160	0	993.0	100,62.9
170	0	0	0	0	0	0	0	0	160-170	0	993.0	100,62.9
180	0	0	0	0	0	0	0	0	170-180	0	993.0	100,62.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291397
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

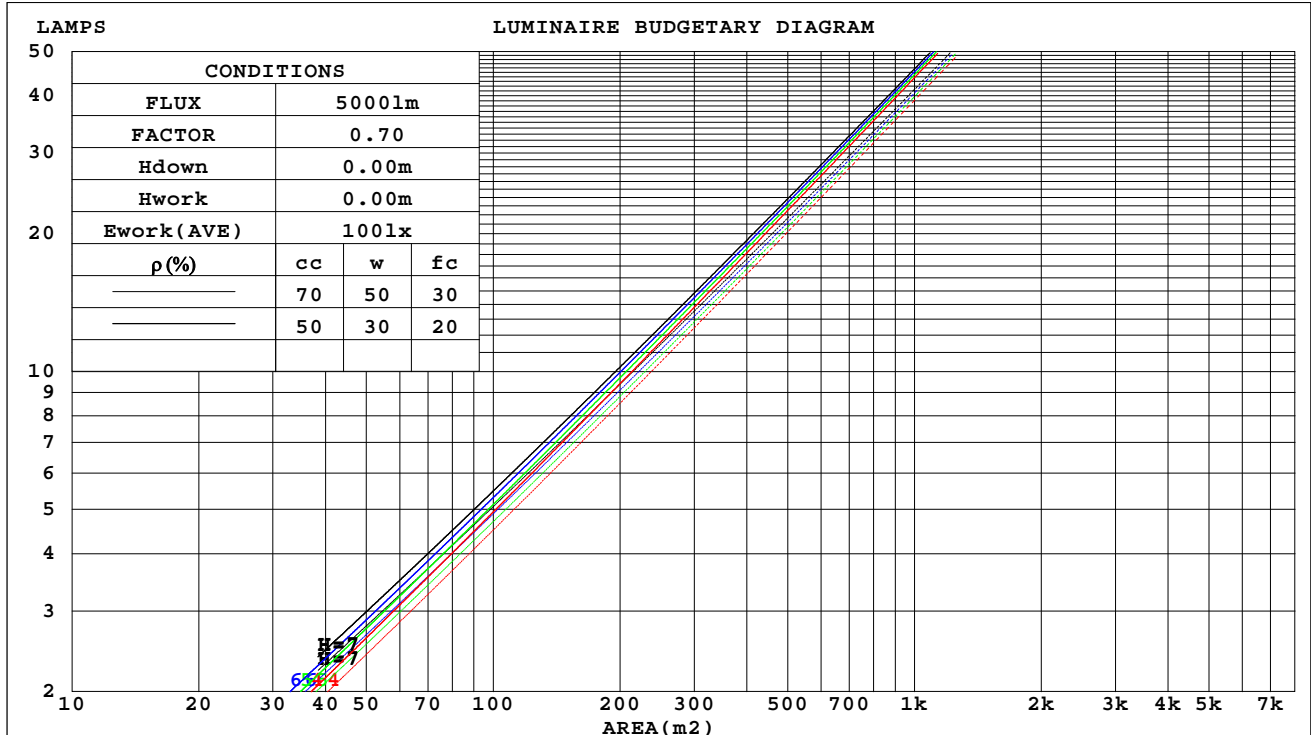
SERIAL No.: 2311291397

MFR.: RISE

SUR.: 0.003737385m2

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



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2311291397
MFR.: RISE	SUR.: 0.003737385m2	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	.086	.049	.015	.082	.047	.015	.074	.042	.014	.067	.038	.012	.060	.035	.011	
2.0	.080	.044	.013	.076	.042	.013	.070	.039	.012	.064	.036	.011	.058	.033	.010	
3.0	.074	.040	.012	.071	.038	.012	.066	.036	.011	.061	.033	.010	.057	.031	.010	
4.0	.070	.036	.011	.067	.035	.010	.063	.033	.010	.059	.031	.009	.055	.030	.009	
5.0	.066	.033	.010	.064	.033	.010	.060	.031	.009	.056	.030	.009	.053	.028	.008	
6.0	.062	.031	.009	.060	.031	.009	.057	.029	.009	.054	.028	.008	.051	.027	.008	
7.0	.059	.029	.008	.058	.029	.008	.055	.028	.008	.052	.027	.008	.049	.026	.008	
8.0	.056	.027	.008	.055	.027	.008	.052	.026	.007	.050	.025	.007	.048	.025	.007	
9.0	.054	.026	.007	.053	.026	.007	.050	.025	.007	.048	.024	.007	.046	.024	.007	
10.0	.052	.025	.007	.051	.024	.007	.049	.024	.007	.047	.023	.007	.045	.023	.006	

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	.120	.120	.120	.102	.102	.102	.070	.070	.070	.040	.040	.040	.013	.013	.013		
1.0	.106	.099	.093	.091	.085	.080	.062	.059	.055	.036	.034	.032	.011	.011	.010		
2.0	.094	.083	.074	.081	.072	.064	.055	.050	.045	.032	.029	.026	.010	.009	.009		
3.0	.085	.071	.060	.073	.061	.052	.050	.043	.037	.029	.025	.022	.009	.008	.007		
4.0	.077	.062	.050	.066	.053	.043	.046	.037	.030	.026	.022	.018	.008	.007	.006		
5.0	.071	.054	.041	.061	.047	.036	.042	.033	.025	.024	.019	.015	.008	.006	.005		
6.0	.065	.048	.035	.056	.041	.030	.039	.029	.022	.022	.017	.013	.007	.006	.004		
7.0	.060	.042	.030	.052	.037	.026	.036	.026	.018	.021	.015	.011	.007	.005	.004		
8.0	.056	.038	.026	.048	.033	.022	.033	.023	.016	.019	.014	.009	.006	.004	.003		
9.0	.053	.035	.022	.045	.030	.020	.031	.021	.014	.018	.012	.008	.006	.004	.003		
10.0	.050	.032	.020	.043	.027	.017	.030	.019	.012	.017	.011	.007	.006	.004	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2311291397			
MFR.: RISE					SUR.: 0.003737385m2			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	7.3	8.0	7.5	8.1	8.3	8.7	9.3	8.9	9.5	9.6
	3H	7.2	7.8	7.4	8.0	8.2	8.5	9.1	8.8	9.3	9.5
	4H	7.1	7.7	7.4	7.9	8.1	8.5	9.0	8.7	9.2	9.5
	6H	7.0	7.6	7.3	7.8	8.0	8.4	8.9	8.7	9.2	9.4
	8H	7.0	7.5	7.3	7.8	8.0	8.3	8.9	8.6	9.1	9.4
	12H	6.9	7.5	7.3	7.7	8.0	8.3	8.8	8.6	9.1	9.3
4H	2H	7.1	7.7	7.4	7.9	8.1	8.5	9.1	8.7	9.3	9.5
	3H	7.0	7.5	7.3	7.7	8.0	8.3	8.8	8.6	9.1	9.3
	4H	6.9	7.3	7.2	7.6	7.9	8.2	8.7	8.5	9.0	9.3
	6H	6.8	7.2	7.2	7.5	7.9	8.1	8.5	8.5	8.9	9.2
	8H	6.7	7.1	7.1	7.5	7.8	8.1	8.4	8.4	8.8	9.2
	12H	6.7	7.0	7.1	7.4	7.8	8.0	8.4	8.4	8.7	9.1
8H	4H	6.7	7.1	7.1	7.5	7.8	8.1	8.4	8.4	8.8	9.2
	6H	6.6	6.9	7.0	7.3	7.7	7.9	8.3	8.4	8.7	9.1
	8H	6.6	6.8	7.0	7.3	7.7	7.9	8.2	8.3	8.6	9.0
	12H	6.5	6.7	7.0	7.2	7.6	7.8	8.1	8.3	8.5	9.0
12H	4H	6.7	7.0	7.1	7.4	7.8	8.0	8.4	8.4	8.7	9.1
	6H	6.6	6.8	7.0	7.3	7.7	7.9	8.2	8.3	8.6	9.0
	8H	6.5	6.7	7.0	7.2	7.6	7.8	8.1	8.3	8.5	9.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 2.9 / - 9.5					+ 3.3 / - 7.8					
1.5H	+ 4.8 / - 5.5					+ 5.3 / - 5.1					
2.0H	+ 4.4 / - 8.0					+ 4.8 / - 9.0					

CIE Pub.117, 1579 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)
Area: 0.00373738 m2

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UTILIZATION FACTORS TABLE

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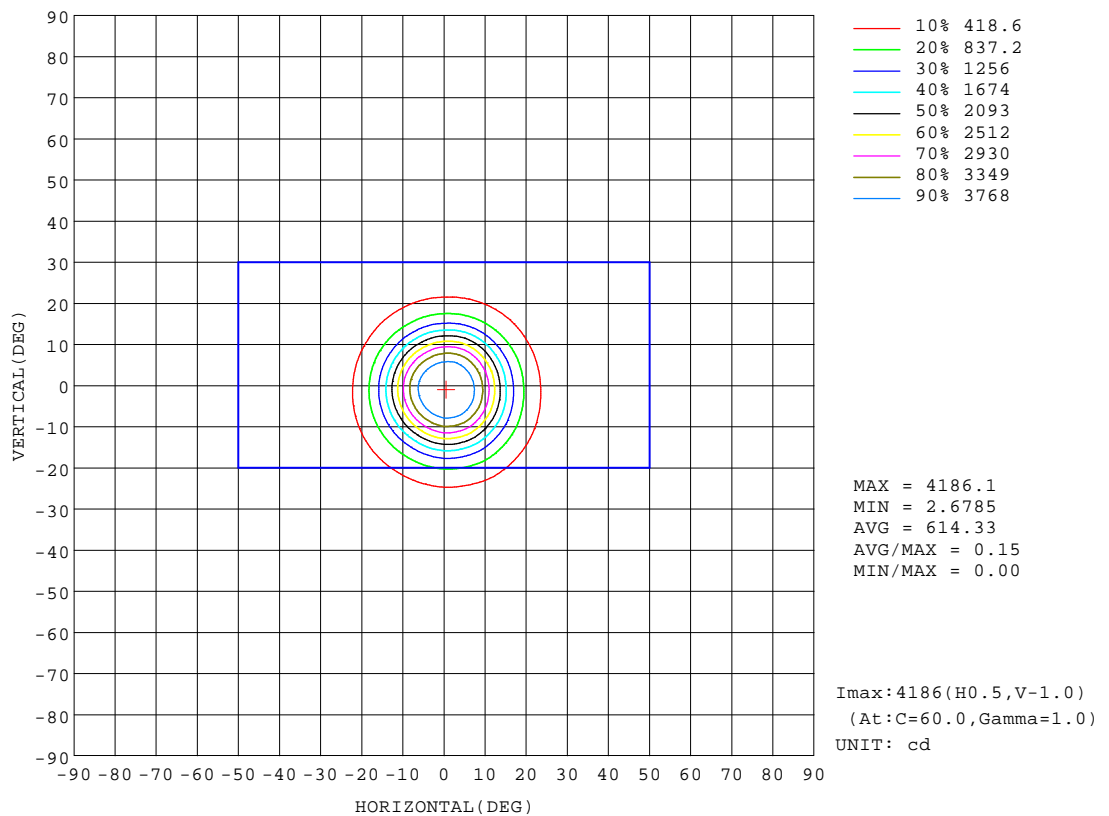
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	53	51	57	53	51	56	53	51	49
0.80	61	58	56	61	58	56	60	58	56	54
1.00	64	61	59	63	60	58	62	60	58	56
1.25	66	63	61	65	63	61	64	62	60	58
1.50	68	65	63	67	64	63	66	64	62	59
2.00	69	67	65	68	66	64	66	65	63	60
2.50	70	68	66	69	67	65	67	66	64	61
3.00	71	69	67	70	68	67	68	66	65	61
4.00	72	70	69	71	69	68	68	67	67	62
5.00	73	71	70	71	70	69	69	68	67	63
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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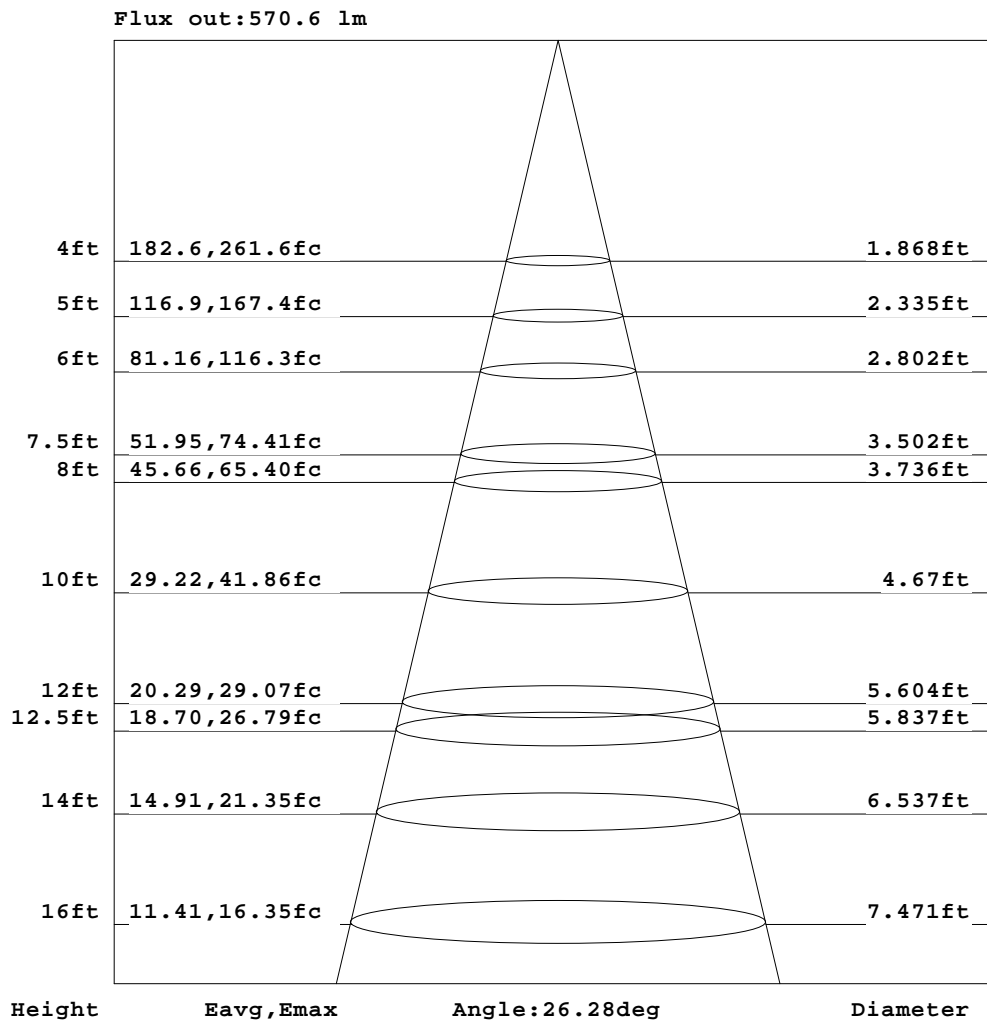


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30minutes warm-up

AAI Figure

Test:U:120.24V I:0.1320A P:15.775W PF:0.9926 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291397
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



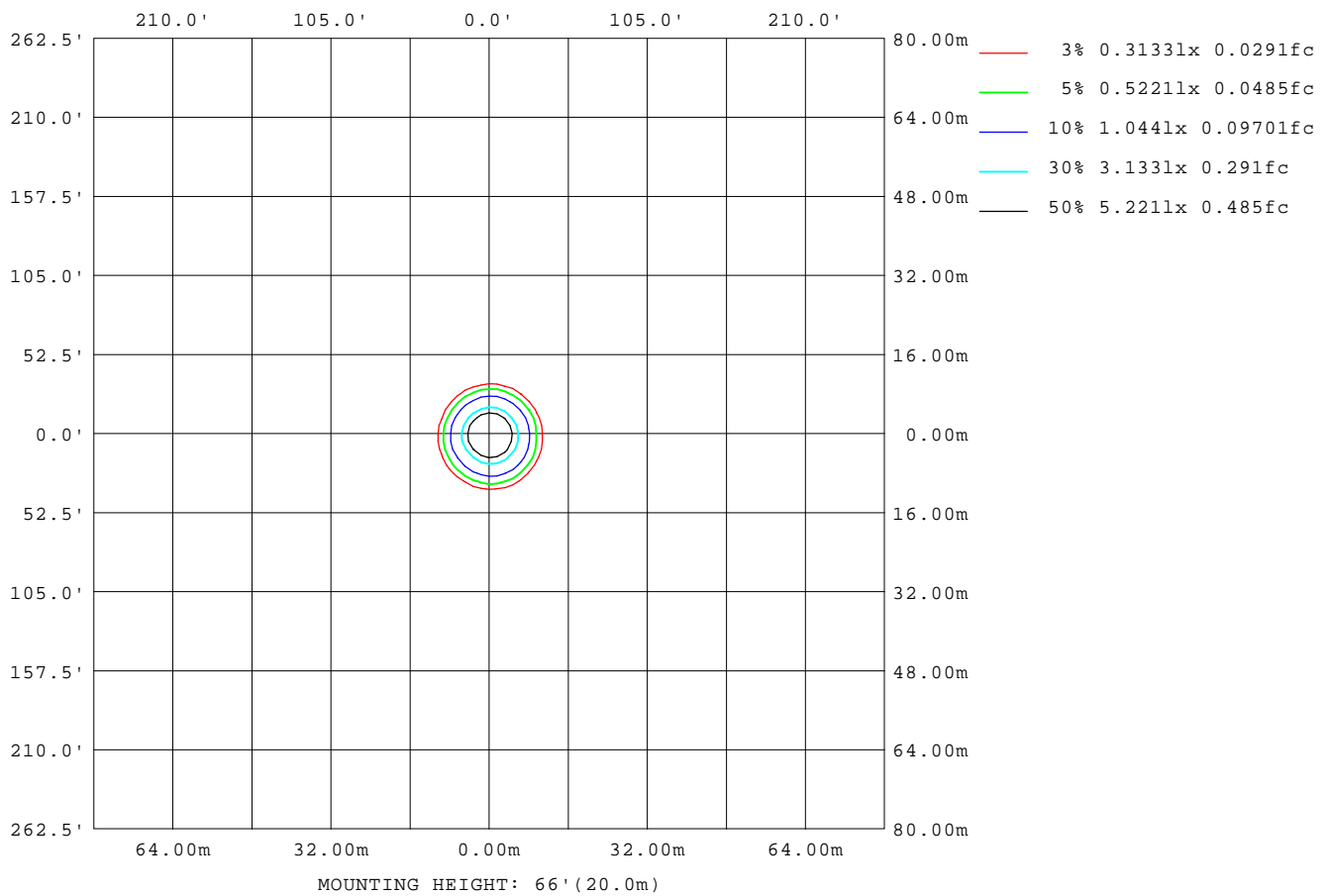
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: zoe
Test Date: 2023-11-29

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-30G1000-A-83 Ra: 90
LENS: PM-1082 15R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.24V I:0.1320A P:15.775W PF:0.9926 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291397
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-11-29

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER:PUP20A-1WMC 400mA
30minutes warm-up

LED Avg.L Report

Test:U:120.24V I:0.1320A P:15.775W PF:0.9926 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291397
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

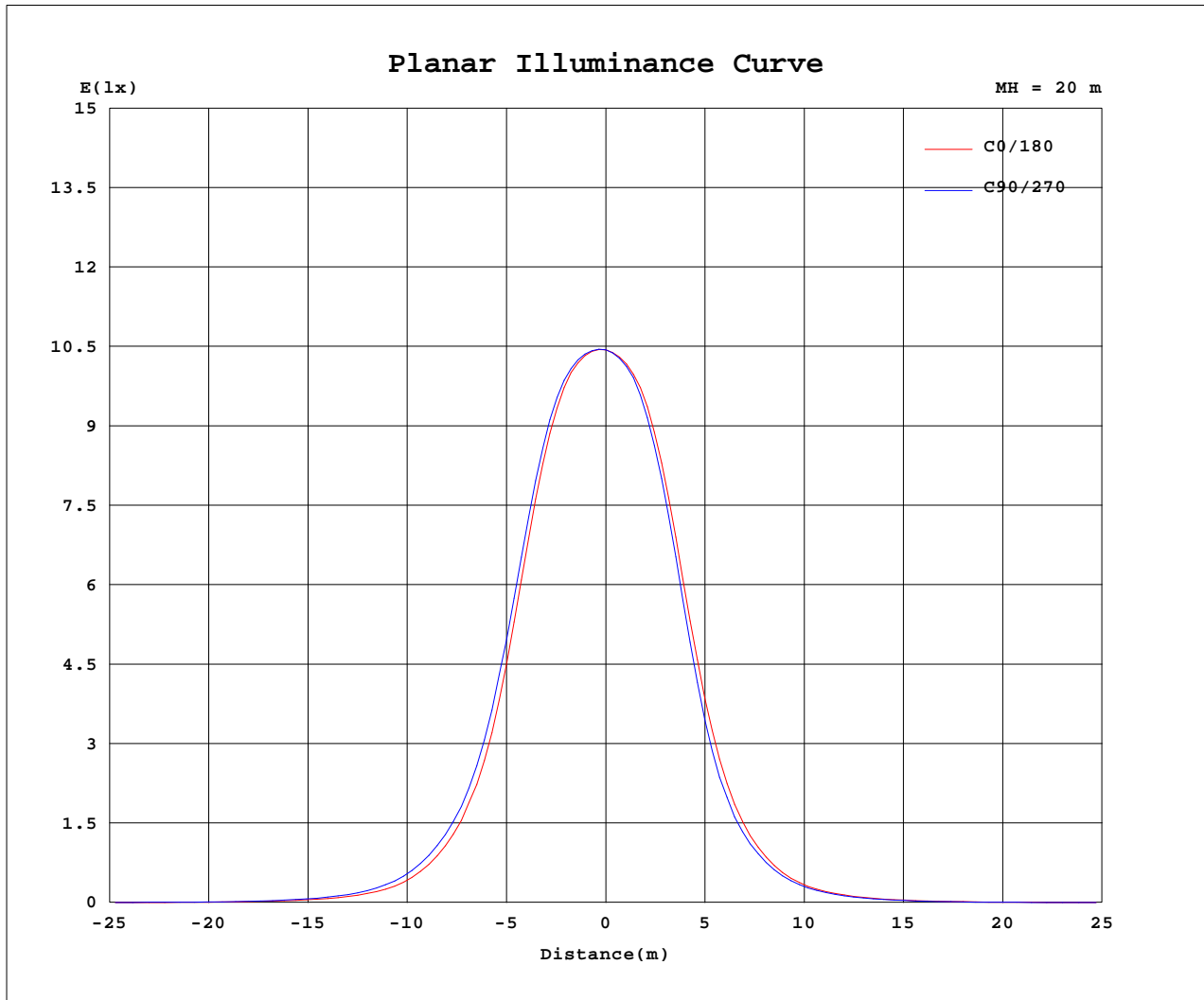
AvgL	cd/m2
L_0~180(65)av	363
L_0~180(75)av	94
L_0~180(85)av	131
L_90~270(65)av	395
L_90~270(75)av	99
L_90~270(85)av	130
L_45(65)av	375
L_45(75)av	91
L_45(85)av	85

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-29

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER:PUP20A-1WMC 400mA
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: 2023-11-29

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-30G1000-A-83 Ra: 90
 LENS: PM-1082 15R
 DRIVER: PUP20A-1WMC 400mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.24V I:0.1320A P:15.775W PF:0.9926 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291397
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
γ (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4175	4175	4175	4175	4175	4175	4175	4175	4175	4175	4175	4175						
5	4049	4091	4107	4081	4024	3977	3934	3881	3847	3877	3952	4005						
10	3191	3343	3414	3337	3151	3011	2888	2742	2661	2735	2917	3052						
15	1699	1899	1983	1913	1696	1563	1444	1306	1242	1274	1420	1550						
20	747	865	922	876	759	689	610	542	520	537	597	666						
25	317	378	423	399	338	299	248	220	217	221	247	282						
30	129	154	176	169	142	126	107	96.6	94.0	96.1	106	117						
35	57.1	67.2	79.3	75.7	64.0	56.9	49.7	45.8	43.4	44.1	48.1	52.7						
40	26.1	30.3	35.5	34.4	29.2	26.1	23.4	21.2	19.8	19.7	22.2	24.2						
45	10.6	12.4	15.0	14.4	11.5	10.2	9.38	8.48	7.91	8.04	9.08	9.98						
50	6.13	6.51	7.96	7.79	6.48	6.07	6.03	5.60	5.05	5.28	5.98	6.37						
55	3.56	3.87	5.16	5.23	4.09	3.70	3.88	3.43	2.82	3.10	3.78	3.98						
60	1.08	1.21	1.36	1.39	1.28	1.18	1.09	1.04	1.02	1.04	1.05	1.03						
65	0.57	0.62	0.68	0.70	0.65	0.61	0.58	0.55	0.53	0.55	0.56	0.55						
70	0.25	0.27	0.30	0.31	0.28	0.26	0.24	0.23	0.22	0.23	0.24	0.24						
75	0.10	0.10	0.11	0.11	0.10	0.09	0.08	0.08	0.07	0.08	0.08	0.08						
80	0.07	0.05	0.06	0.06	0.05	0.05	0.06	0.05	0.05	0.06	0.05	0.05						
85	0.05	0.03	0.04	0.04	0.03	0.02	0.04	0.03	0.03	0.04	0.03	0.02						
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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