

Luminaire Photograph



Light Output Ratio:	67.6%	
Luminaire Power:	10.32 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-11-16

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: BXRV-DR-1830G-0600-B-23 Ra: 90
LENS: PM-1103A 24R+DIFFUSER
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

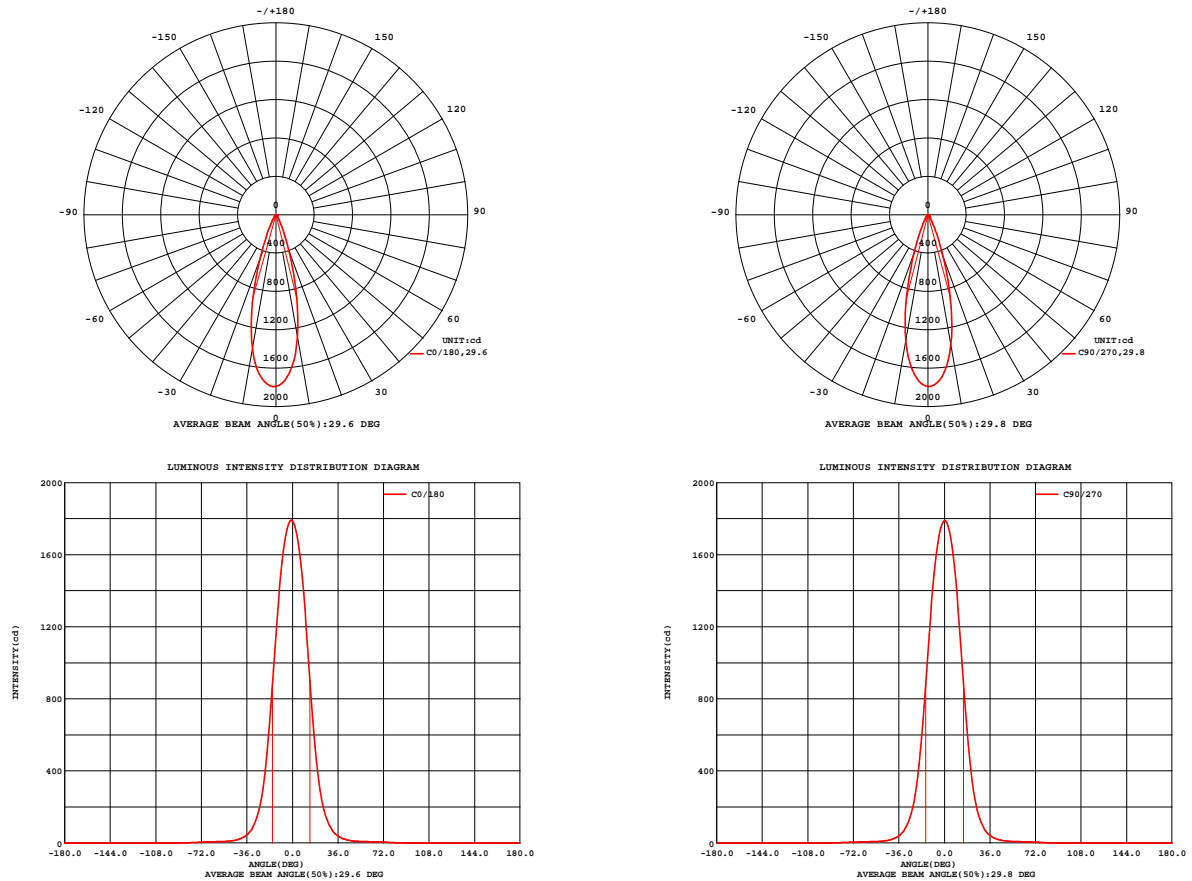


Fig. C0/C180

Fig. C90/C270

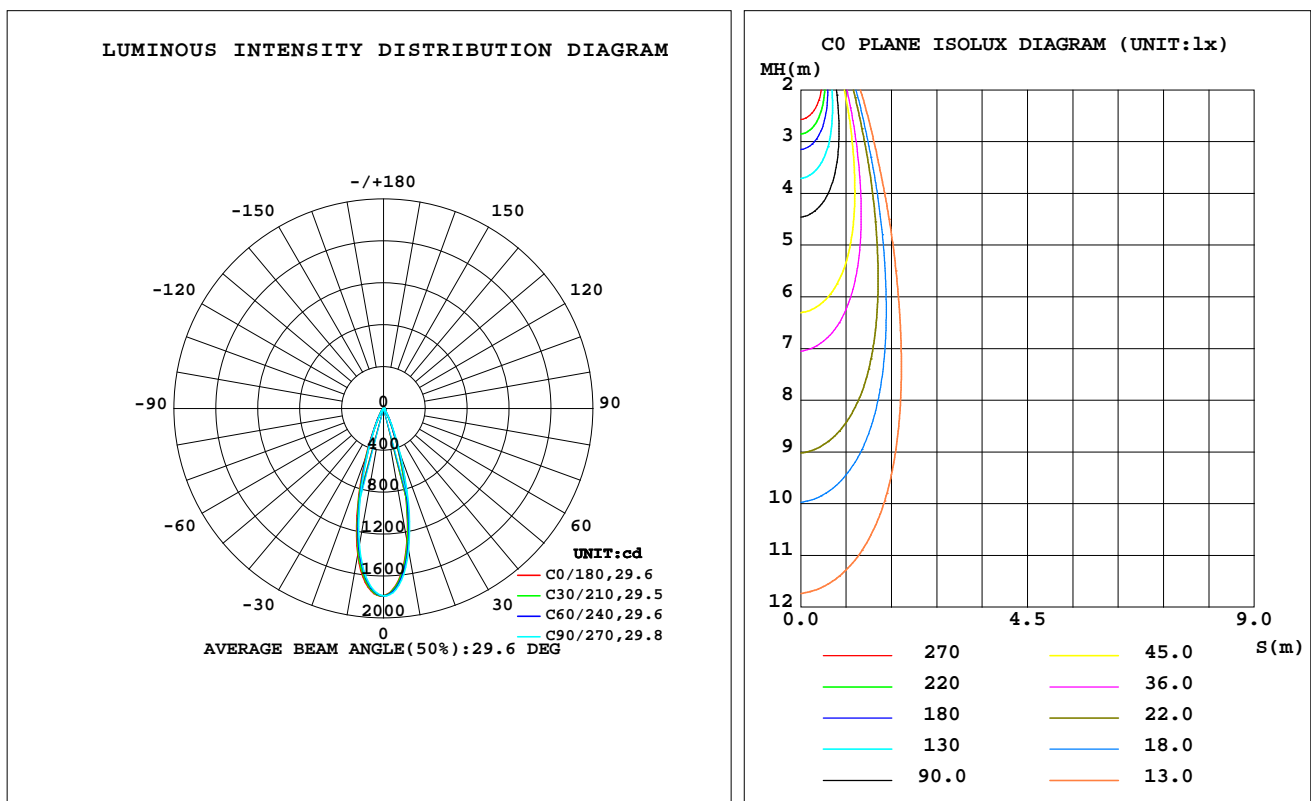
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Temperature: 25.3 °C
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Test Distance: 3.160m [K=1.0000]
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.23V I:0.0487A P:10.323W PF:0.9588 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161339
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.32 lm/W			
MODEL	Bridgelux	I _{max} (cd)	1791	S/MH(C0/180)	0.50
NOMINAL POWER(W)	10	LOR(%)	67.6	S/MH(C90/270)	0.48
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	550.46	η UP,DN(C0-180)	0.0,34.1
NOMINAL FLUX(lm)	814.298	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,33.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	67.6	CIBSE SHR MAX	0.50



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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	1295	1332	1382	1422	1419	1375	1334	1308	0- 10	150.1	150.1	27.3,18.4
20	398.0	426.3	474.0	511.4	500.8	463.4	432.0	408.9	10- 20	238.1	388.2	70.5,47.7
30	89.28	92.19	99.53	107.5	104.3	95.21	90.50	90.19	20- 30	100.4	488.5	88.7,60
40	24.45	25.31	26.62	27.83	27.19	25.29	24.25	23.99	30- 40	31.93	520.5	94.5,63.9
50	9.934	9.998	10.12	10.21	9.993	9.728	9.697	9.743	40- 50	12.04	532.5	96.7,65.4
60	7.299	7.258	7.250	7.236	7.169	7.012	6.985	7.098	50- 60	7.427	539.9	98.1,66.3
70	5.102	5.112	5.094	5.151	5.171	5.047	4.936	4.963	60- 70	6.174	546.1	99.2,67.1
80	2.014	1.778	1.651	1.720	1.864	2.007	2.122	2.107	70- 80	3.730	549.8	99.9,67.5
90	0	0	0	0	0	0	0	0	80- 90	0.6343	550.5	100,67.6
100	0	0	0	0	0	0	0	0	90-100	0	550.5	100,67.6
110	0	0	0	0	0	0	0	0	100-110	0	550.5	100,67.6
120	0	0	0	0	0	0	0	0	110-120	0	550.5	100,67.6
130	0	0	0	0	0	0	0	0	120-130	0	550.5	100,67.6
140	0	0	0	0	0	0	0	0	130-140	0	550.5	100,67.6
150	0	0	0	0	0	0	0	0	140-150	0	550.5	100,67.6
160	0	0	0	0	0	0	0	0	150-160	0	550.5	100,67.6
170	0	0	0	0	0	0	0	0	160-170	0	550.5	100,67.6
180	0	0	0	0	0	0	0	0	170-180	0	550.5	100,67.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 Humidity:65.0%
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 DRIVER:9290 028 088 250mA
 30minutes warm-up

LUMINANCE LIMITATION CURVES

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Lamp Flux:814.298x1 lm

NAME: 2218.511-ACOT-97-DW

TYPE:

WEIGHT:

SPEC.: 3000K

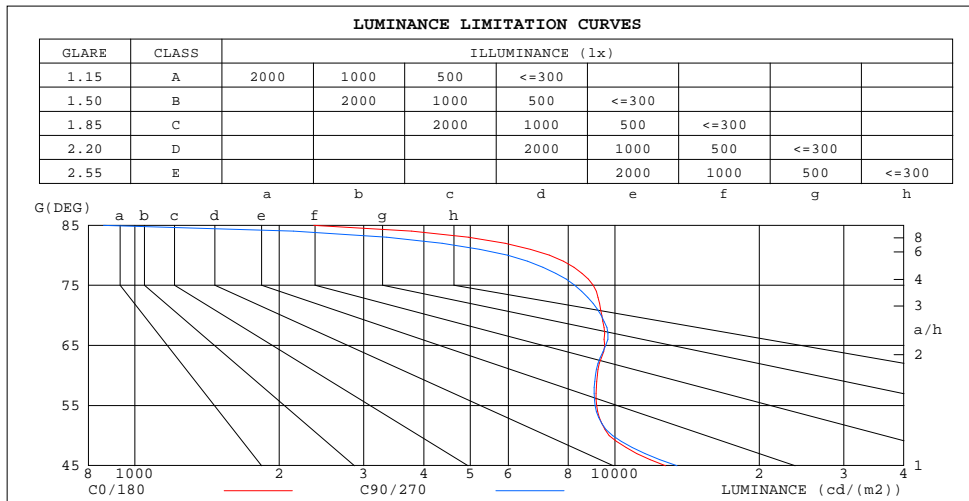
DIM.:

SERIAL No.: 2311161339

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



C Range: 0 - 360DEG
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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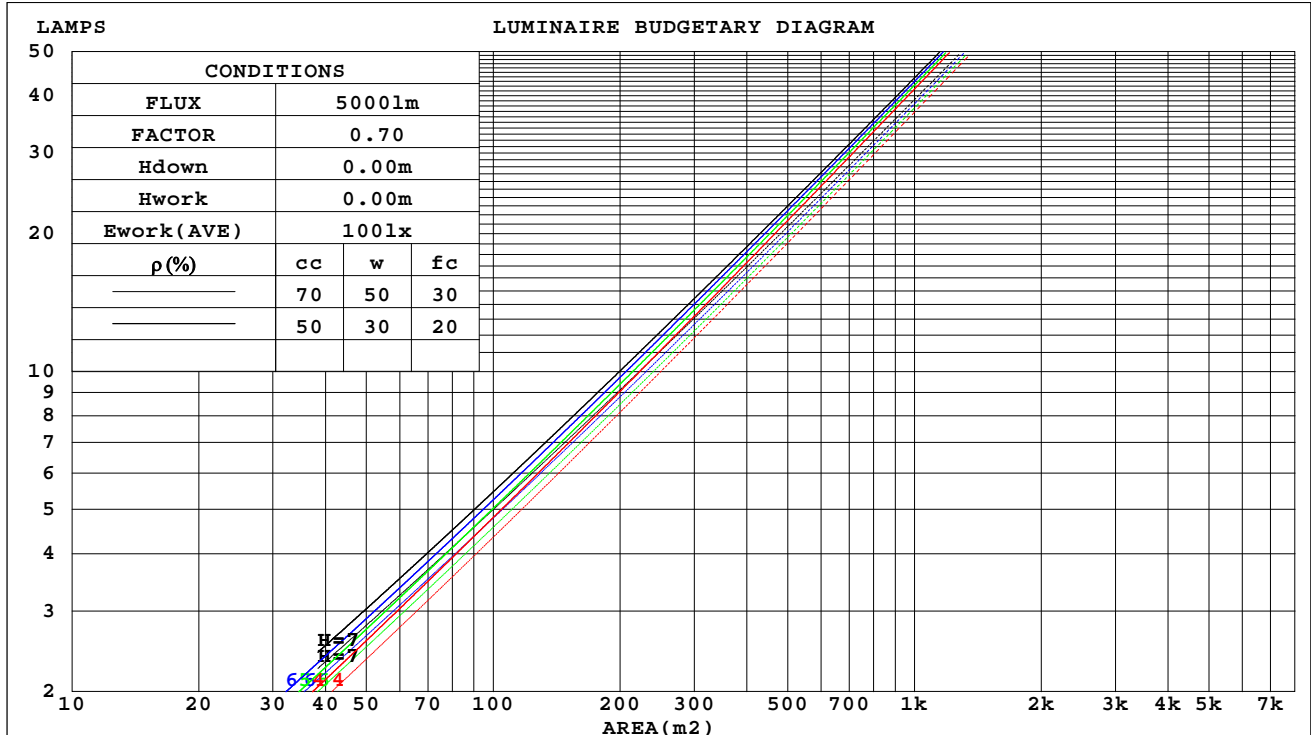
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SUR.: 0.001589625m2

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	.79	.79	.79	.75	.75	.75	.72	.72	.72	.69	.69	.69	.68
1.0	.76	.74	.73	.74	.73	.72	.72	.70	.70	.69	.68	.67	.67	.66	.66	.64
2.0	.71	.69	.67	.70	.68	.67	.68	.67	.65	.66	.65	.64	.64	.63	.62	.61
3.0	.68	.65	.63	.67	.64	.62	.65	.63	.61	.64	.62	.60	.62	.61	.60	.59
4.0	.65	.62	.59	.64	.61	.59	.63	.60	.58	.61	.59	.58	.60	.58	.57	.56
5.0	.62	.59	.56	.61	.58	.56	.60	.58	.56	.59	.57	.55	.58	.56	.55	.54
6.0	.59	.56	.54	.59	.56	.54	.58	.55	.53	.57	.55	.53	.56	.54	.53	.52
7.0	.57	.54	.52	.57	.54	.51	.56	.53	.51	.55	.53	.51	.54	.52	.51	.50
8.0	.55	.52	.50	.55	.52	.50	.54	.51	.49	.53	.51	.49	.53	.51	.49	.48
9.0	.53	.50	.48	.53	.50	.48	.52	.49	.48	.52	.49	.47	.51	.49	.47	.47
10.0	.51	.48	.46	.51	.48	.46	.51	.48	.46	.50	.48	.46	.50	.47	.46	.45



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WEC AND CCEC

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NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161339
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	.105	.060	.019	.100	.057	.018	.092	.053	.017	.084	.048	.016	.077	.045	.014	
2.0	.098	.054	.016	.094	.052	.016	.087	.048	.015	.081	.045	.014	.075	.042	.013	
3.0	.091	.049	.015	.088	.047	.014	.082	.045	.014	.077	.042	.013	.072	.040	.012	
4.0	.086	.045	.013	.083	.043	.013	.078	.041	.012	.073	.039	.012	.069	.037	.011	
5.0	.081	.041	.012	.078	.040	.012	.074	.039	.011	.070	.037	.011	.066	.035	.011	
6.0	.076	.038	.011	.074	.038	.011	.071	.036	.011	.067	.035	.010	.064	.034	.010	
7.0	.072	.036	.010	.071	.035	.010	.067	.034	.010	.064	.033	.010	.061	.032	.009	
8.0	.069	.034	.009	.067	.033	.009	.064	.032	.009	.062	.031	.009	.059	.030	.009	
9.0	.066	.032	.009	.064	.031	.009	.062	.031	.009	.059	.030	.009	.057	.029	.008	
10.0	.063	.030	.008	.062	.030	.008	.059	.029	.008	.057	.028	.008	.055	.028	.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	.129	.129	.129	.110	.110	.110	.075	.075	.075	.043	.043	.043	.014	.014	.014		
1.0	.115	.106	.099	.098	.091	.085	.067	.063	.059	.039	.036	.034	.012	.012	.011		
2.0	.103	.090	.078	.088	.077	.068	.061	.053	.047	.035	.031	.028	.011	.010	.009		
3.0	.094	.077	.063	.080	.066	.055	.055	.046	.038	.032	.027	.023	.010	.009	.007		
4.0	.086	.066	.052	.073	.057	.045	.051	.040	.032	.029	.023	.019	.009	.008	.006		
5.0	.079	.058	.043	.068	.050	.037	.047	.035	.026	.027	.021	.016	.009	.007	.005		
6.0	.073	.052	.036	.063	.045	.032	.043	.031	.022	.025	.018	.013	.008	.006	.004		
7.0	.068	.046	.031	.059	.040	.027	.040	.028	.019	.024	.017	.011	.008	.005	.004		
8.0	.064	.042	.027	.055	.036	.023	.038	.025	.016	.022	.015	.010	.007	.005	.003		
9.0	.060	.038	.023	.052	.033	.020	.036	.023	.014	.021	.014	.009	.007	.004	.003		
10.0	.057	.035	.020	.049	.030	.018	.034	.021	.013	.020	.013	.008	.006	.004	.002		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2311161339			
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	14.9	15.6	15.1	15.8	15.9	15.0	15.8	15.2	15.9	16.1
	3H	16.1	16.8	16.3	17.0	17.1	16.2	16.9	16.4	17.0	17.2
	4H	16.6	17.3	16.9	17.5	17.7	16.6	17.3	16.9	17.5	17.7
	6H	17.0	17.6	17.3	17.8	18.1	16.9	17.5	17.2	17.7	18.0
	8H	17.0	17.6	17.3	17.9	18.2	16.9	17.5	17.2	17.7	18.0
	12H	17.0	17.6	17.3	17.9	18.1	16.9	17.4	17.2	17.7	18.0
4H	2H	15.3	15.9	15.6	16.2	16.4	15.4	16.1	15.7	16.3	16.5
	3H	16.7	17.3	17.0	17.6	17.8	16.8	17.3	17.1	17.6	17.9
	4H	17.4	17.9	17.7	18.2	18.5	17.3	17.9	17.7	18.2	18.5
	6H	17.9	18.3	18.2	18.7	19.0	17.7	18.2	18.1	18.5	18.8
	8H	17.9	18.4	18.3	18.7	19.1	17.7	18.2	18.1	18.5	18.9
	12H	17.9	18.3	18.3	18.7	19.1	17.7	18.1	18.1	18.4	18.8
8H	4H	17.6	18.0	18.0	18.4	18.7	17.5	18.0	17.9	18.3	18.7
	6H	18.1	18.5	18.6	18.9	19.3	17.9	18.3	18.4	18.7	19.1
	8H	18.3	18.6	18.7	19.0	19.4	18.0	18.3	18.4	18.7	19.2
	12H	18.2	18.5	18.7	19.0	19.4	18.0	18.2	18.4	18.7	19.2
12H	4H	17.6	18.0	18.0	18.3	18.7	17.5	17.9	17.9	18.3	18.7
	6H	18.1	18.5	18.6	18.9	19.3	17.9	18.3	18.4	18.7	19.1
	8H	18.3	18.5	18.7	19.0	19.4	18.0	18.3	18.5	18.7	19.2
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.5 / - 0.6					+ 0.6 / - 0.6					
1.5H	+ 1.1 / - 0.6					+ 1.4 / - 0.7					
2.0H	+ 0.4 / - 0.3					+ 0.6 / - 0.3					

CIE Pub.117, 814.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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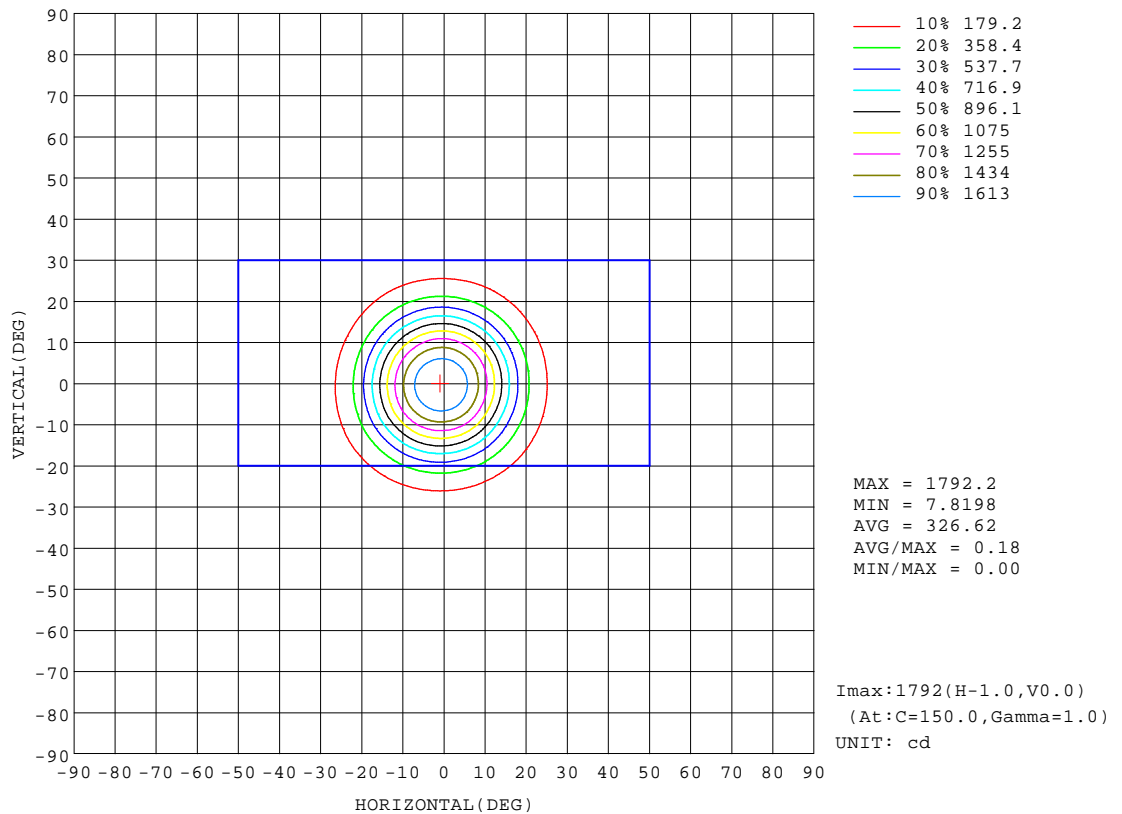
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	55	53	59	55	53	59	55	53	50
0.80	65	61	58	64	60	58	63	60	58	55
1.00	67	64	61	67	63	61	66	63	61	58
1.25	70	66	64	69	66	64	68	65	63	61
1.50	72	69	66	71	68	66	69	67	65	62
2.00	73	71	68	72	70	68	71	69	67	63
2.50	75	72	70	73	71	69	71	70	68	64
3.00	76	73	71	74	72	71	72	71	69	65
4.00	77	75	74	76	74	73	73	72	71	66
5.00	78	76	75	76	75	74	74	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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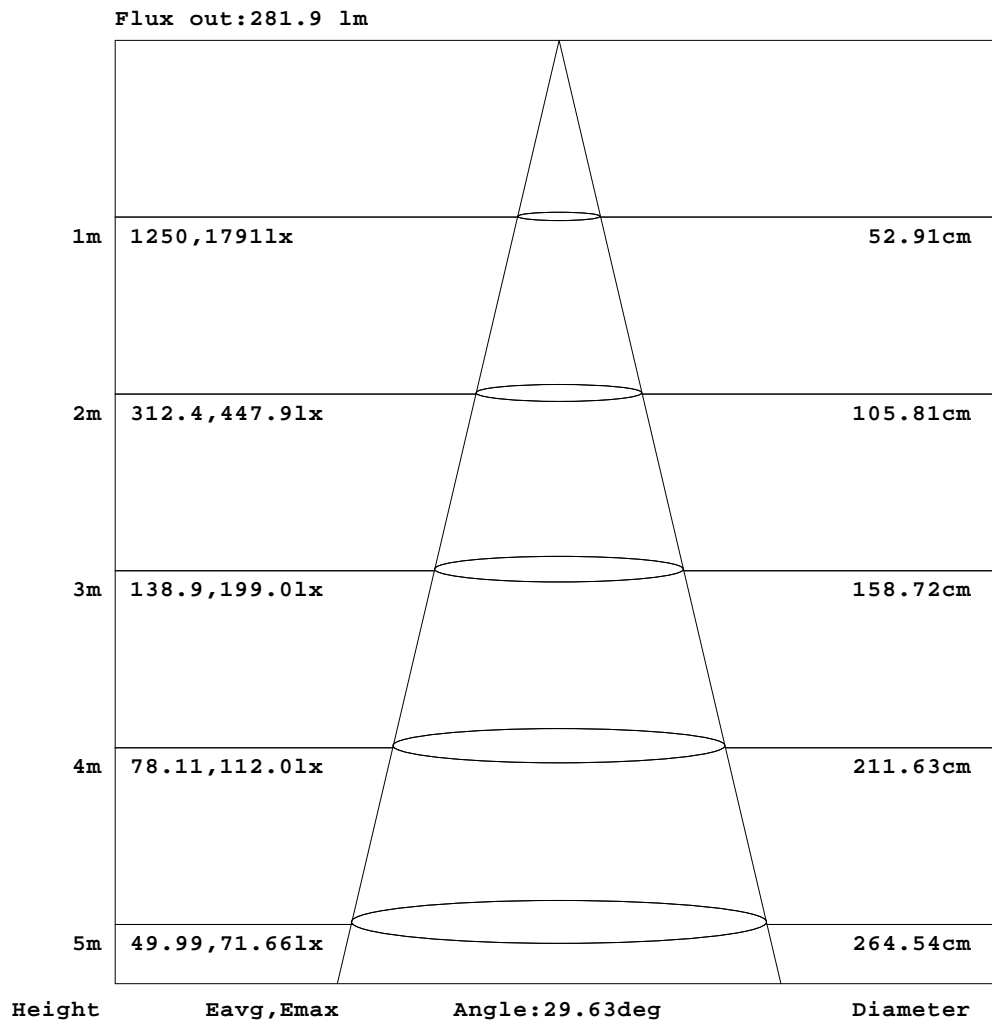


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LENS:PM-1103A 24R+DIFFUSER
DRIVER:9290 028 088 250mA
30minutes warm-up

AAI Figure

Test:U:220.23V I:0.0487A P:10.323W PF:0.9588 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161339
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



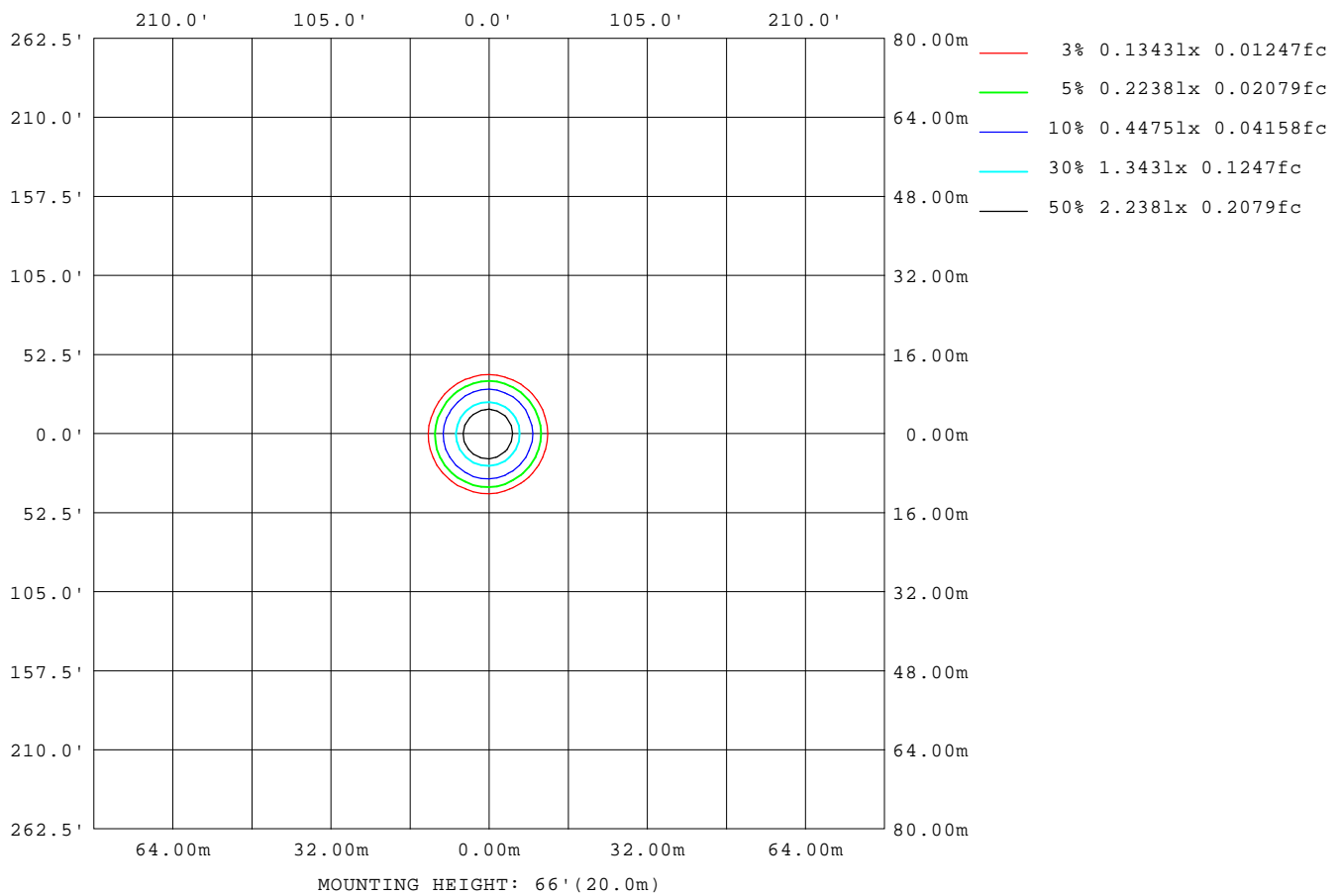
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-16

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:BXRV-DR-1830G-0600-B-23 Ra:90
LENS:PM-1103A 24R+DIFFUSER
DRIVER:9290 028 088 250mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.23V I:0.0487A P:10.323W PF:0.9588 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161339
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-11-16

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:BXRV-DR-1830G-0600-B-23 Ra:90
LENS:PM-1103A 24R+DIFFUSER
DRIVER:9290 028 088 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.23V I:0.0487A P:10.323W PF:0.9588 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161339
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

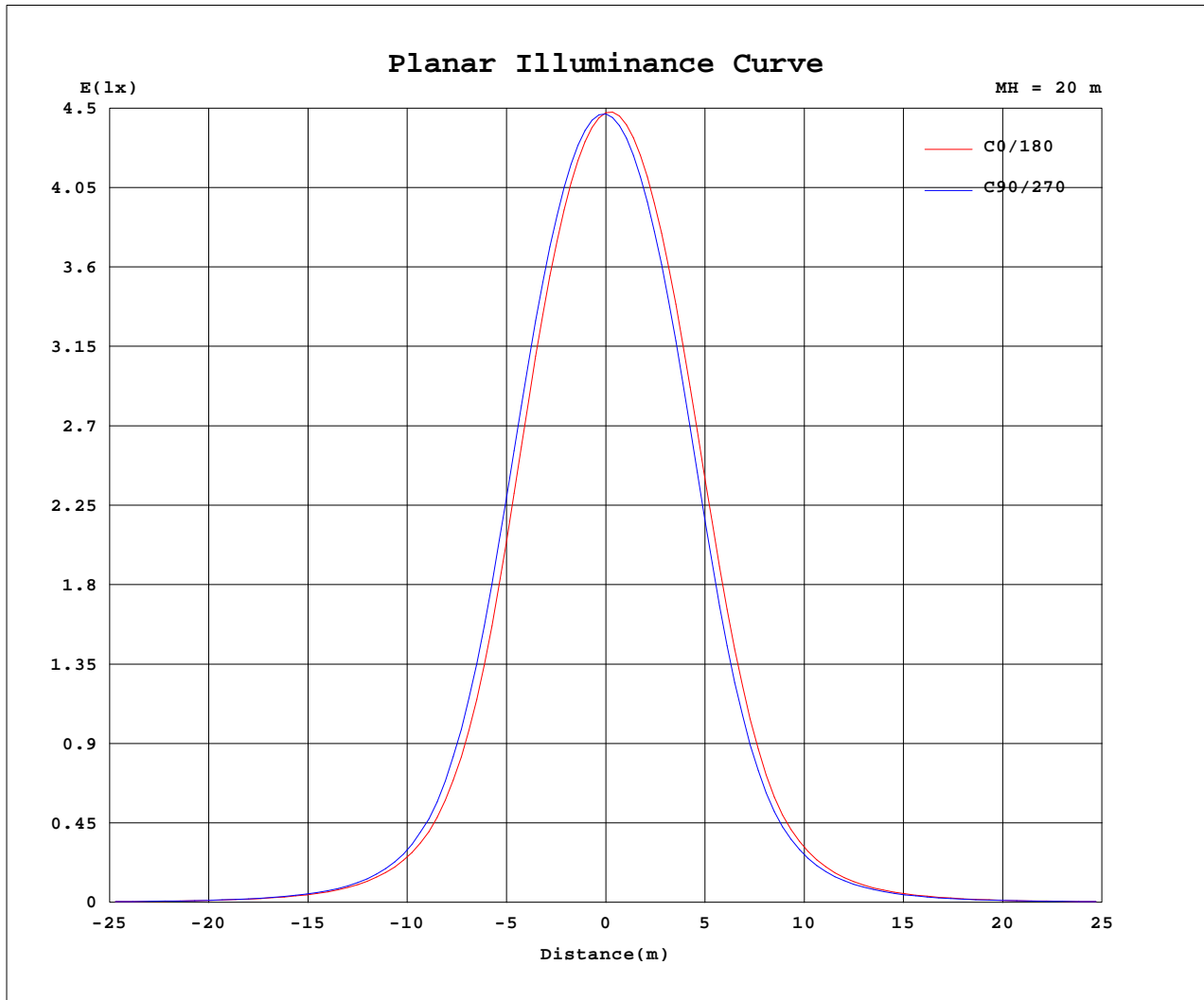
AvgL	cd/m2
L_0~180(65)av	9505
L_0~180(75)av	8817
L_0~180(85)av	2215
L_90~270(65)av	9362
L_90~270(75)av	8566
L_90~270(85)av	2263
L_45(65)av	9396
L_45(75)av	8649
L_45(85)av	2200

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-16

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:BXRV-DR-1830G-0600-B-23 Ra:90
LENS:PM-1103A 24R+DIFFUSER
DRIVER:9290 028 088 250mA
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: 2023-11-16

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: BXRV-DR-1830G-0600-B-23 Ra: 90
 LENS: PM-1103A 24R+DIFFUSER
 DRIVER: 9290 028 088 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.23V I:0.0487A P:10.323W PF:0.9588 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161339
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	1788	1788	1788	1788	1788	1788	1788	1788	1788	1788	1788	1788						
5	1648	1658	1680	1694	1707	1715	1711	1698	1678	1665	1653	1648						
10	1295	1310	1354	1382	1414	1430	1419	1392	1357	1334	1313	1303						
15	800	816	871	912	956	974	956	922	882	854	827	811						
20	398	410	442	474	505	518	501	474	453	432	414	404						
25	182	188	197	215	226	234	223	207	205	193	188	183						
30	89.3	91.1	93.3	99.5	105	110	104	96.3	94.1	90.5	90.5	89.8						
35	44.9	45.9	47.1	49.4	52.2	53.6	51.4	48.4	46.5	45.4	45.2	44.6						
40	24.4	25.0	25.6	26.6	27.6	28.0	27.2	25.8	24.8	24.3	24.1	23.9						
45	14.3	14.6	14.8	15.2	15.6	15.7	15.3	14.7	14.3	14.1	14.0	14.0						
50	9.93	10.0	9.96	10.1	10.2	10.2	9.99	9.83	9.63	9.70	9.68	9.81						
55	8.35	8.38	8.21	8.30	8.31	8.30	8.20	8.04	8.00	8.01	8.11	8.18						
60	7.30	7.34	7.18	7.25	7.24	7.23	7.17	7.02	7.00	6.99	7.06	7.13						
65	6.40	6.47	6.34	6.44	6.44	6.45	6.37	6.21	6.19	6.14	6.20	6.22						
70	5.10	5.18	5.05	5.09	5.11	5.19	5.17	5.07	5.02	4.94	4.95	4.97						
75	3.71	3.63	3.41	3.39	3.41	3.50	3.55	3.56	3.67	3.65	3.65	3.65						
80	2.01	1.88	1.68	1.65	1.67	1.77	1.86	1.93	2.08	2.12	2.14	2.07						
85	0.33	0.23	0.14	0.12	0.13	0.21	0.29	0.37	0.49	0.51	0.48	0.40						
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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