

Luminaire Photograph



Light Output Ratio:	83.7%	
Luminaire Power:	19.88 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: 2025-5-10

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-30G10TH-A-83 Ra:90
LENS: 36R
DRIVER: 9290 039 225 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

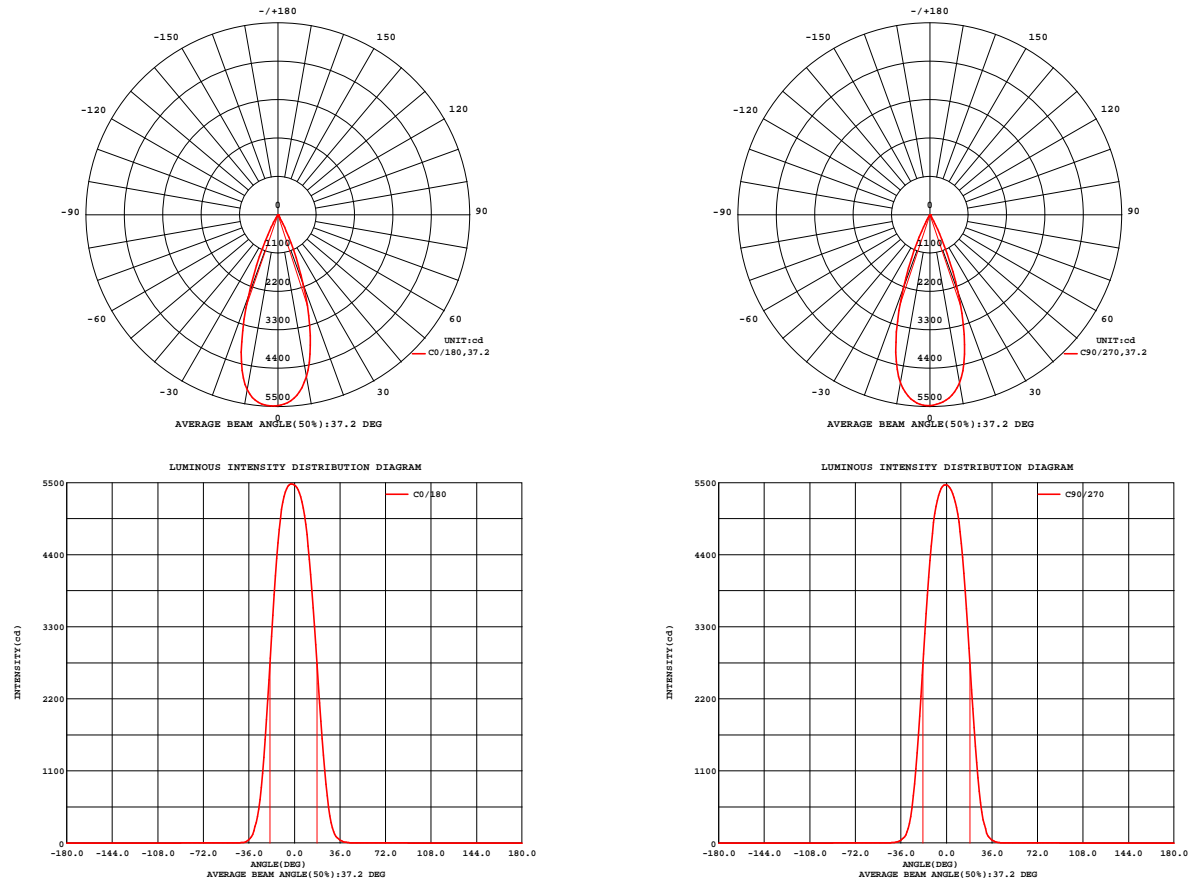


Fig. C0/C180

Fig. C90/C270

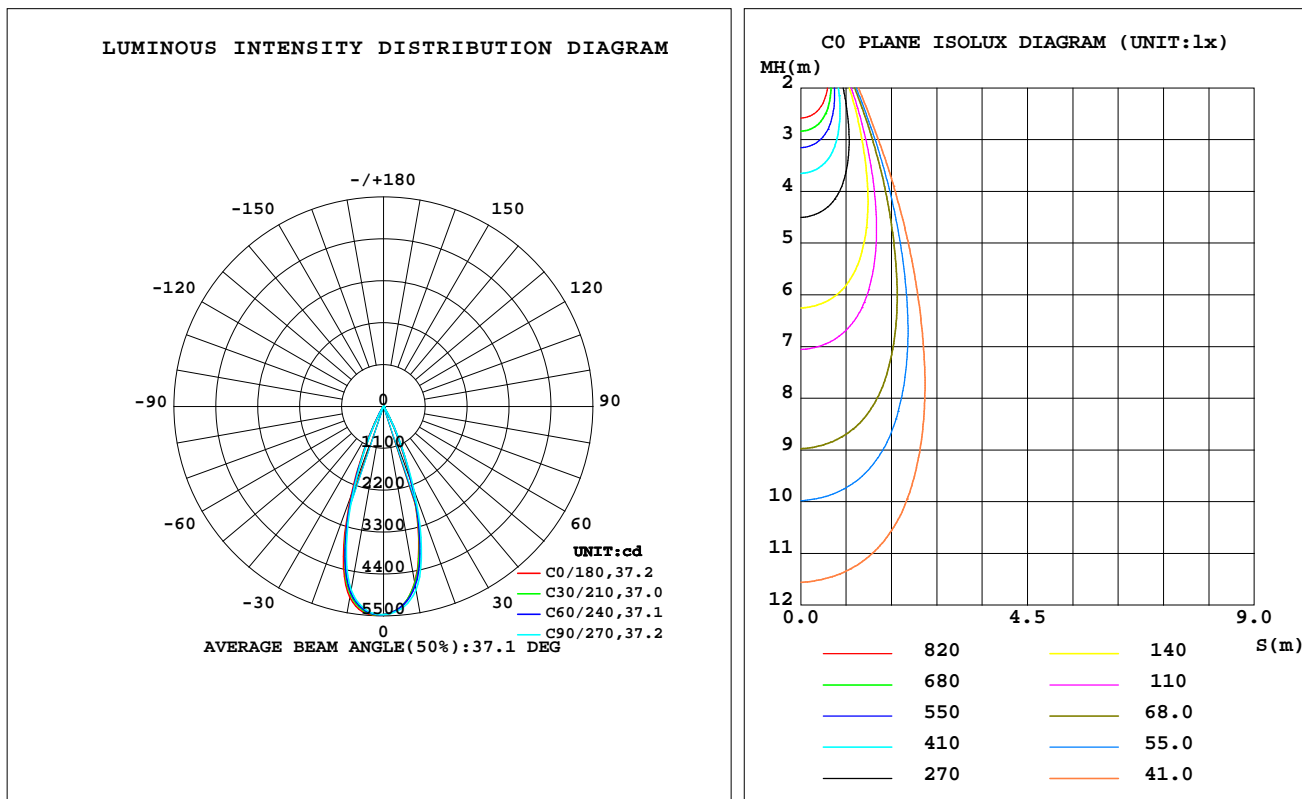
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-5-10

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Humidity: 65.0%
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Remarks: LAMP: BXRE-30G10TH-A-83 Ra: 90
LENS: 36R
DRIVER: 9290 039 225 500mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.09V I:0.0930A P:19.884W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm		
NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100265
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.83 lm/W			
MODEL	Brideglux	Imax(cd)	5479	S/MH(C0/180)	0.59
NOMINAL POWER(W)	20	LOR(%)	83.7	S/MH(C90/270)	0.57
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2044.7	η UP,DN(C0-180)	0.0,41.7
NOMINAL FLUX(lm)	2442.23	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,42.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	83.7	CIBSE SHR MAX	0.60



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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	4707	4758	4897	5018	5091	4991	4893	4822	0- 10	497.0	497.0	24.3,20.3
20	2138	2222	2337	2448	2490	2358	2241	2217	10- 20	1023	1520	74.3,62.2
30	232.6	260.4	286.5	292.7	310.6	279.3	223.1	237.7	20- 30	470.7	1991	97.4,81.5
40	13.15	12.41	10.48	9.655	8.882	9.813	10.75	11.47	30- 40	51.60	2042	99.9,83.6
50	0.2919	0.2014	0.1776	0.1702	0.0712	0.0873	0.1175	0.1452	40- 50	2.396	2045	100,83.7
60	0.0798	0.0546	0.0618	0.0552	0.0398	0.0477	0.0709	0.0704	50- 60	0.0755	2045	100,83.7
70	0.0344	0.0145	0.0157	0.0122	0.0210	0.0145	0.0220	0.0162	60- 70	0.0362	2045	100,83.7
80	0.0392	0.0129	0.0256	0.0122	0.0293	0.0160	0.0342	0.0171	70- 80	0.0203	2045	100,83.7
90	0	0	0	0	0	0	0	0	80- 90	0.0224	2045	100,83.7
100	0	0	0	0	0	0	0	0	90-100	0	2045	100,83.7
110	0	0	0	0	0	0	0	0	100-110	0	2045	100,83.7
120	0	0	0	0	0	0	0	0	110-120	0	2045	100,83.7
130	0	0	0	0	0	0	0	0	120-130	0	2045	100,83.7
140	0	0	0	0	0	0	0	0	130-140	0	2045	100,83.7
150	0	0	0	0	0	0	0	0	140-150	0	2045	100,83.7
160	0	0	0	0	0	0	0	0	150-160	0	2045	100,83.7
170	0	0	0	0	0	0	0	0	160-170	0	2045	100,83.7
180	0	0	0	0	0	0	0	0	170-180	0	2045	100,83.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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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-30G10TH-A-83 Ra:90
LENS:36R
DRIVER:9290 039 225 500mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.09V I:0.0930A P:19.884W PF:0.9687 Freq:49.99Hz
Lamp Flux:2442.23x1 lm

NAME: 2518.102

TYPE:

WEIGHT:

SPEC.: 3000K

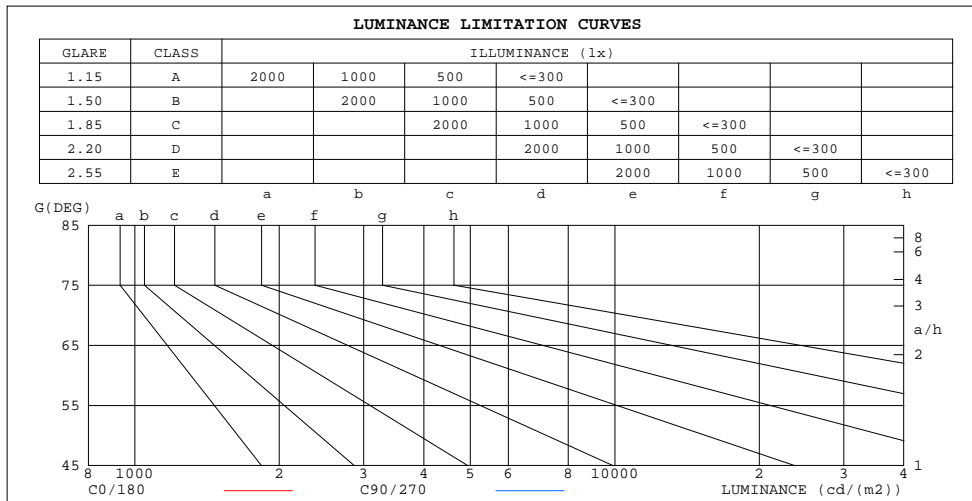
DIM.:

SERIAL No.: 2505100265

MFR.: RISE

SUR.: 0.006217985m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	71	59
80	36	24
75	23	13
70	16	7
65	24	11
60	26	20
55	30	24
50	73	44
45	469	368

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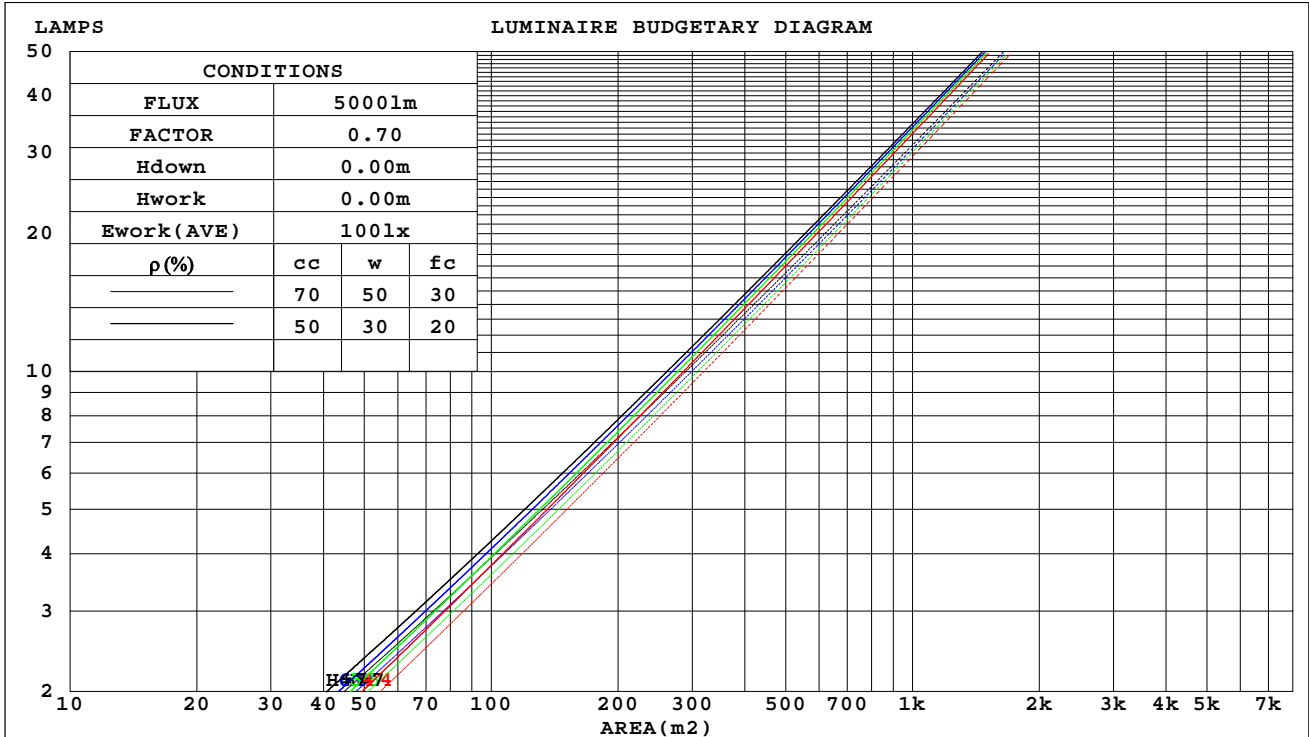
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.00	.00	.00	.97	.97	.97	.93	.93	.93	.89	.89	.89	.85	.85	.85	.84
1.0	.94	.93	.91	.92	.91	.90	.89	.88	.87	.86	.85	.84	.83	.83	.82	.81
2.0	.90	.87	.85	.88	.86	.84	.86	.84	.82	.83	.82	.80	.81	.80	.79	.77
3.0	.85	.82	.80	.84	.81	.79	.82	.80	.78	.80	.78	.77	.79	.77	.76	.74
4.0	.82	.78	.76	.81	.78	.75	.79	.77	.74	.78	.75	.74	.76	.74	.73	.72
5.0	.78	.75	.72	.78	.74	.72	.76	.73	.71	.75	.73	.71	.74	.72	.70	.69
6.0	.75	.72	.69	.75	.71	.69	.74	.71	.68	.73	.70	.68	.72	.69	.68	.67
7.0	.73	.69	.66	.72	.69	.66	.71	.68	.66	.70	.68	.65	.69	.67	.65	.64
8.0	.70	.66	.64	.70	.66	.64	.69	.66	.63	.68	.65	.63	.67	.65	.63	.62
9.0	.68	.64	.61	.67	.64	.61	.67	.63	.61	.66	.63	.61	.65	.63	.61	.60
10.0	.65	.62	.59	.65	.62	.59	.64	.61	.59	.64	.61	.59	.63	.61	.59	.58



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WEC AND CCEC

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NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100265
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	.119	.068	.022	.114	.065	.021	.103	.059	.019	.094	.054	.017	.085	.049	.016	
2.0	.111	.061	.019	.107	.059	.018	.098	.054	.017	.090	.050	.016	.083	.047	.015	
3.0	.104	.055	.017	.100	.054	.016	.093	.050	.015	.086	.047	.015	.080	.044	.014	
4.0	.098	.051	.015	.095	.050	.015	.089	.047	.014	.083	.045	.013	.078	.042	.013	
5.0	.093	.047	.014	.090	.046	.013	.085	.044	.013	.080	.042	.013	.075	.040	.012	
6.0	.088	.044	.013	.086	.043	.012	.081	.042	.012	.077	.040	.012	.073	.039	.011	
7.0	.084	.042	.012	.082	.041	.012	.078	.040	.011	.074	.038	.011	.071	.037	.011	
8.0	.081	.039	.011	.079	.039	.011	.075	.038	.011	.072	.036	.011	.069	.035	.010	
9.0	.077	.037	.010	.076	.037	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	
10.0	.074	.036	.010	.073	.035	.010	.070	.034	.010	.068	.034	.010	.065	.033	.009	

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	.159	.159	.159	.136	.136	.136	.093	.093	.093	.053	.053	.053	.017	.017	.017		
1.0	.141	.132	.124	.121	.113	.106	.083	.078	.074	.048	.045	.043	.015	.015	.014		
2.0	.126	.111	.098	.108	.096	.085	.074	.066	.059	.043	.038	.035	.014	.012	.011		
3.0	.114	.095	.079	.098	.082	.069	.067	.057	.048	.039	.033	.028	.012	.011	.009		
4.0	.104	.082	.065	.089	.071	.057	.061	.049	.040	.036	.029	.024	.011	.009	.008		
5.0	.096	.072	.054	.082	.062	.047	.057	.043	.033	.033	.026	.020	.011	.008	.007		
6.0	.088	.064	.046	.076	.055	.040	.052	.039	.028	.030	.023	.017	.010	.007	.006		
7.0	.082	.057	.039	.071	.049	.034	.049	.035	.024	.028	.020	.014	.009	.007	.005		
8.0	.077	.051	.034	.066	.044	.029	.046	.031	.021	.027	.018	.012	.009	.006	.004		
9.0	.073	.047	.029	.063	.040	.025	.043	.028	.018	.025	.017	.011	.008	.006	.004		
10.0	.069	.043	.026	.059	.037	.022	.041	.026	.016	.024	.015	.009	.008	.005	.003		

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UGR(Unified Glare Rating) Table

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NAME: 2518.102					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2505100265		
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	1.4	2.1	1.6	2.3	2.4	1.8	2.5	2.0	2.6	2.8
3H	1.3	1.9	1.5	2.1	2.3	1.6	2.3	1.9	2.5	2.7
4H	1.2	1.8	1.4	2.0	2.2	1.6	2.2	1.8	2.4	2.6
6H	1.1	1.7	1.4	1.9	2.1	1.5	2.1	1.8	2.3	2.5
8H	1.1	1.6	1.4	1.9	2.1	1.4	2.0	1.7	2.2	2.5
12H	1.0	1.6	1.3	1.8	2.1	1.4	1.9	1.7	2.2	2.5
4H 2H	1.2	1.8	1.4	2.0	2.2	1.6	2.2	1.8	2.4	2.6
3H	1.0	1.5	1.3	1.8	2.1	1.4	1.9	1.7	2.2	2.5
4H	0.9	1.4	1.3	1.7	2.0	1.3	1.8	1.6	2.1	2.4
6H	0.8	1.3	1.2	1.6	1.9	1.2	1.6	1.6	2.0	2.3
8H	0.8	1.2	1.1	1.5	1.9	1.1	1.5	1.5	1.9	2.3
12H	0.7	1.1	1.1	1.4	1.8	1.1	1.5	1.5	1.8	2.2
8H 4H	0.8	1.2	1.1	1.5	1.9	1.1	1.5	1.5	1.9	2.3
6H	0.7	1.0	1.1	1.4	1.8	1.0	1.4	1.5	1.8	2.2
8H	0.6	0.9	1.0	1.3	1.7	1.0	1.3	1.4	1.7	2.1
12H	0.5	0.8	1.0	1.2	1.7	0.9	1.2	1.4	1.6	2.1
12H 4H	0.7	1.1	1.1	1.4	1.8	1.1	1.5	1.5	1.8	2.2
6H	0.6	0.9	1.0	1.3	1.7	1.0	1.3	1.4	1.7	2.1
8H	0.5	0.8	1.0	1.2	1.7	0.9	1.2	1.4	1.6	2.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.5 / -24.1					+ 4.8 / -25.3				
1.5H	+ 7.3 / -23.9					+ 7.6 / -24.6				
2.0H	+ 8.8 / - 7.3					+ 8.4 / - 7.0				

CIE Pub.117, 2442 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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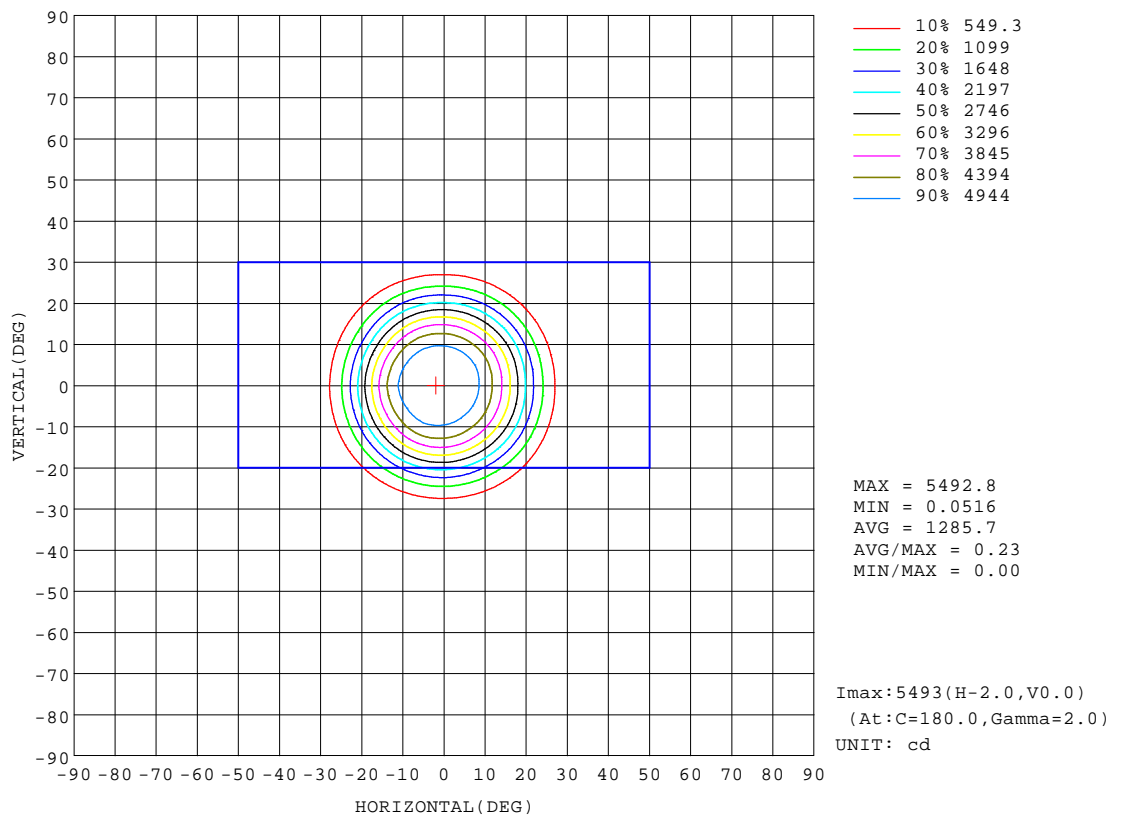
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	77	72	69	76	72	69	76	71	69	66
0.80	82	78	75	82	78	75	81	77	75	72
1.00	85	81	79	85	81	78	84	81	78	75
1.25	88	85	82	88	84	82	86	83	81	78
1.50	90	87	84	89	86	84	88	85	83	80
2.00	92	89	87	91	88	86	89	87	85	81
2.50	93	90	88	92	89	87	89	87	86	81
3.00	94	92	90	93	91	89	90	88	87	82
4.00	96	94	92	94	93	91	91	90	89	83
5.00	97	95	94	95	94	93	92	91	90	84
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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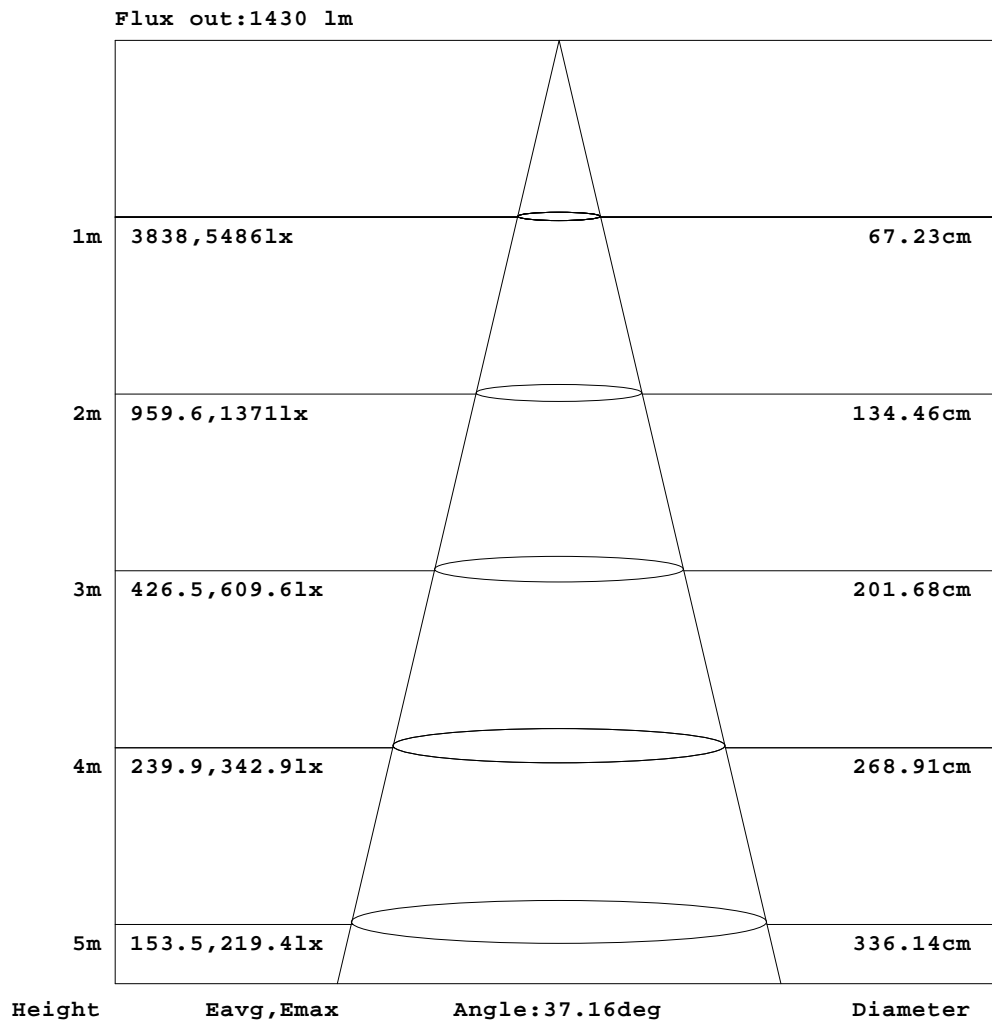


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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2505100265
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



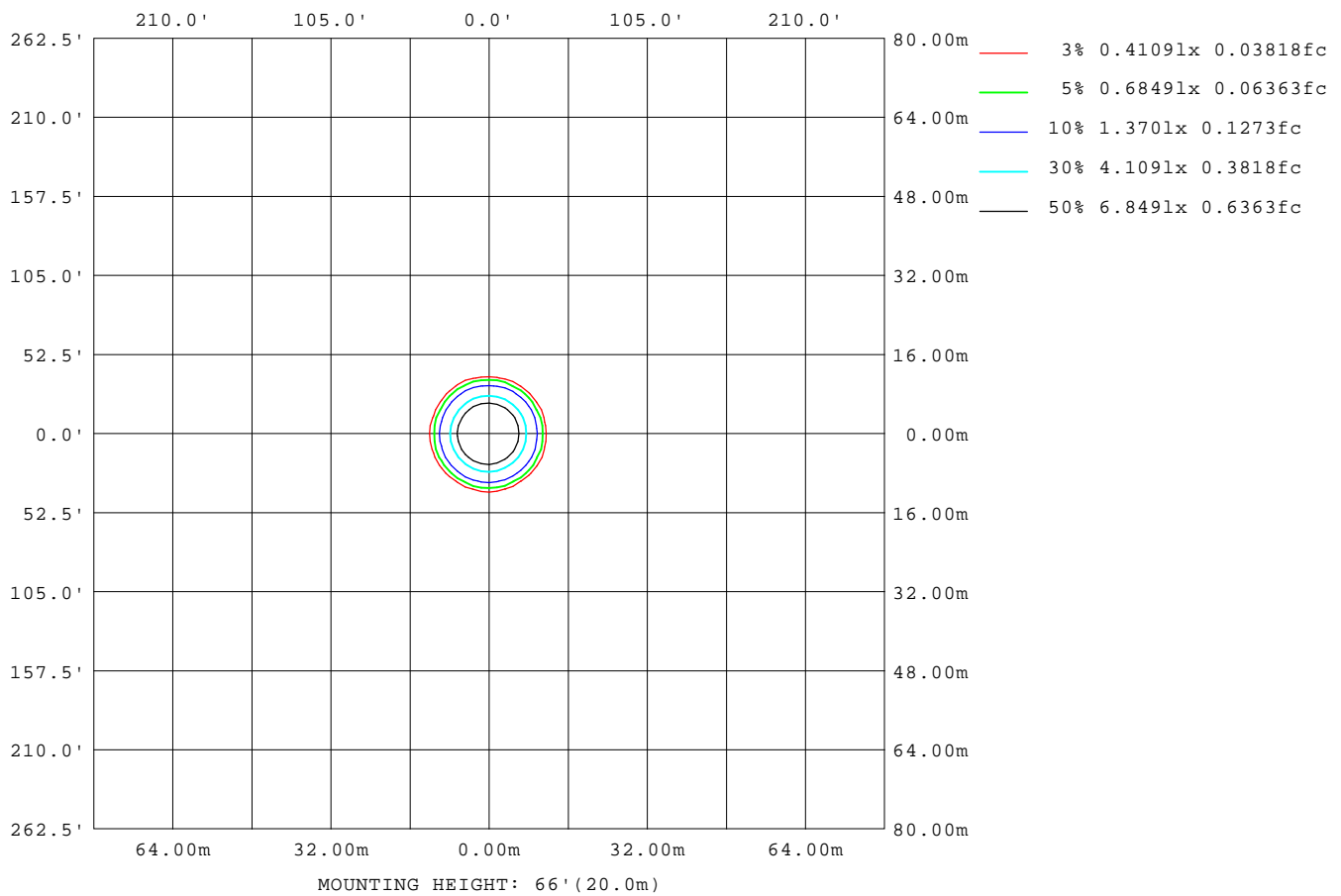
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-5-10

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-30G10TH-A-83 Ra:90
LENS:36R
DRIVER:9290 039 225 500mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.09V I:0.0930A P:19.884W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm		
NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100265
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:2025-5-10

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-30G10TH-A-83 Ra:90
LENS:36R
DRIVER:9290 039 225 500mA
30minutes warm-up

LED Avg.L Report

Test:U:220.09V I:0.0930A P:19.884W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm		
NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100265
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

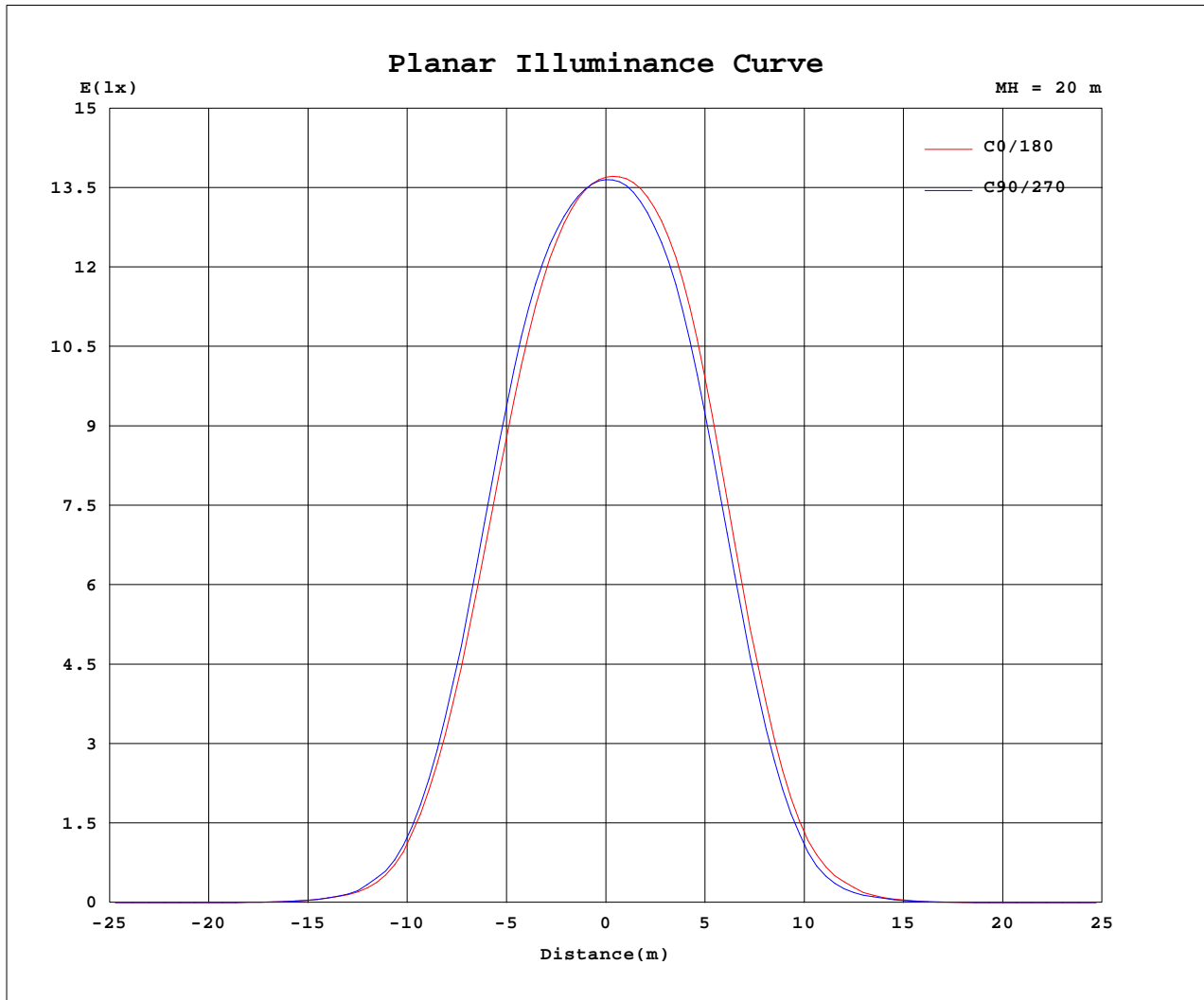
AvgL	cd/m2
L_0~180(65)av	18
L_0~180(75)av	19
L_0~180(85)av	63
L_90~270(65)av	14
L_90~270(75)av	15
L_90~270(85)av	63
L_45(65)av	13
L_45(75)av	8
L_45(85)av	21

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-5-10

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-30G10TH-A-83 Ra:90
LENS:36R
DRIVER:9290 039 225 500mA
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: 2025-5-10

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-30G10TH-A-83 Ra: 90
 LENS: 36R
 DRIVER: 9290 039 225 500mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.09V I:0.0930A P:19.884W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm		
NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100265
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	5465	5465	5465	5465	5465	5465	5465	5465	5465	5465	5465	5465						
5	5280	5277	5283	5331	5381	5408	5444	5412	5389	5360	5344	5327						
10	4707	4730	4787	4897	4999	5038	5091	5018	4964	4893	4833	4812						
15	3589	3639	3722	3858	3982	4028	4076	3954	3906	3785	3716	3703						
20	2138	2210	2234	2337	2427	2469	2490	2377	2338	2241	2218	2216						
25	898	945	944	994	1024	1061	1060	988	976	901	910	913						
30	233	268	253	286	276	309	311	275	284	223	236	240						
35	64.0	61.5	66.0	64.0	68.2	72.5	70.0	68.2	64.0	59.2	54.9	64.4						
40	13.1	13.4	11.4	10.5	9.80	9.51	8.88	9.65	9.97	10.8	12.0	11.0						
45	2.06	1.91	1.69	1.62	1.58	1.61	1.34	1.29	1.39	1.85	2.18	1.70						
50	0.29	0.22	0.19	0.18	0.17	0.17	0.07	0.08	0.09	0.12	0.14	0.15						
55	0.11	0.09	0.08	0.09	0.08	0.07	0.05	0.05	0.07	0.08	0.09	0.08						
60	0.08	0.06	0.05	0.06	0.06	0.05	0.04	0.04	0.05	0.07	0.07	0.07						
65	0.06	0.04	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.04	0.05	0.05						
70	0.03	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.02						
75	0.04	0.02	0.01	0.02	0.01	0.01	0.03	0.02	0.01	0.03	0.01	0.02						
80	0.04	0.01	0.01	0.03	0.01	0.01	0.03	0.02	0.02	0.03	0.02	0.02						
85	0.04	0.01	0.01	0.03	0.01	0.01	0.03	0.01	0.01	0.04	0.02	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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