

Luminaire Photograph



Light Output Ratio:	66.6%	
Luminaire Power:	23.71 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	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-1083C 50R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

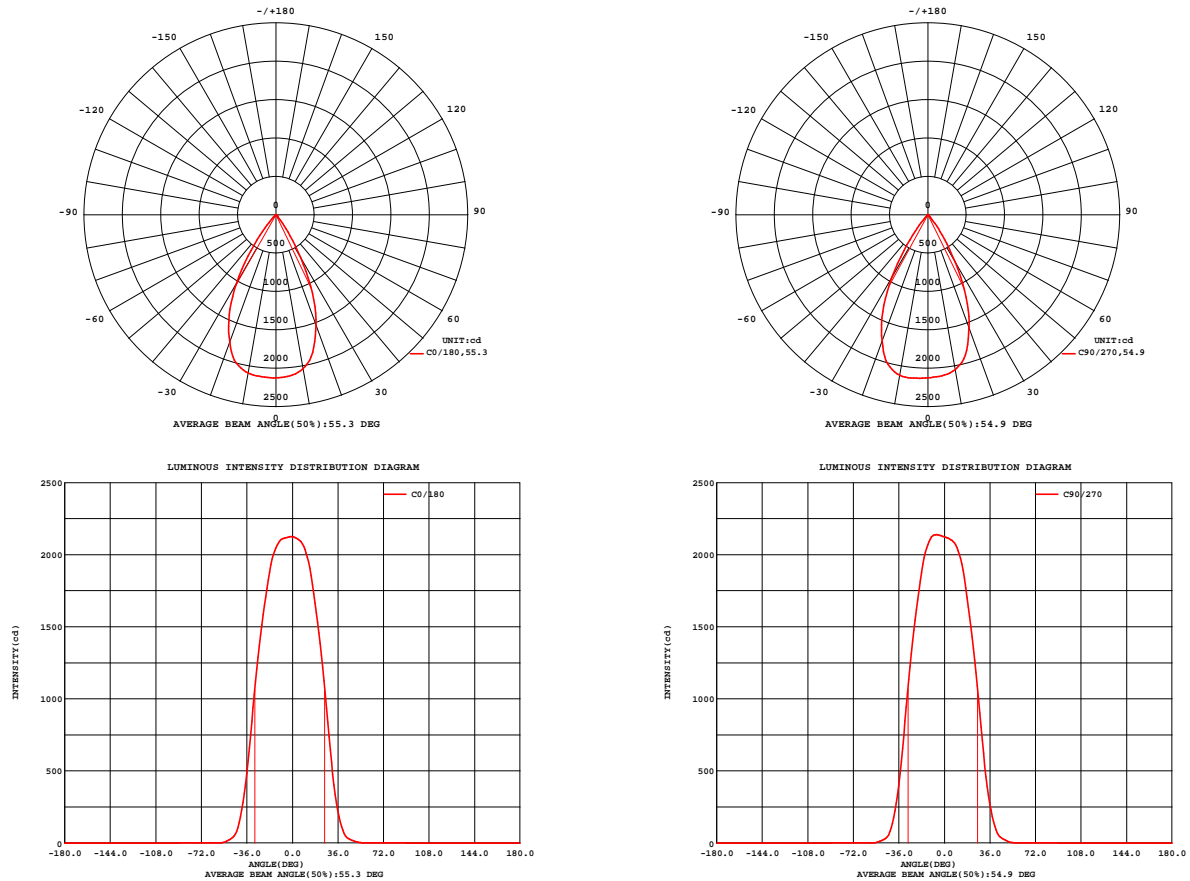


Fig. C0/C180

Fig. C90/C270

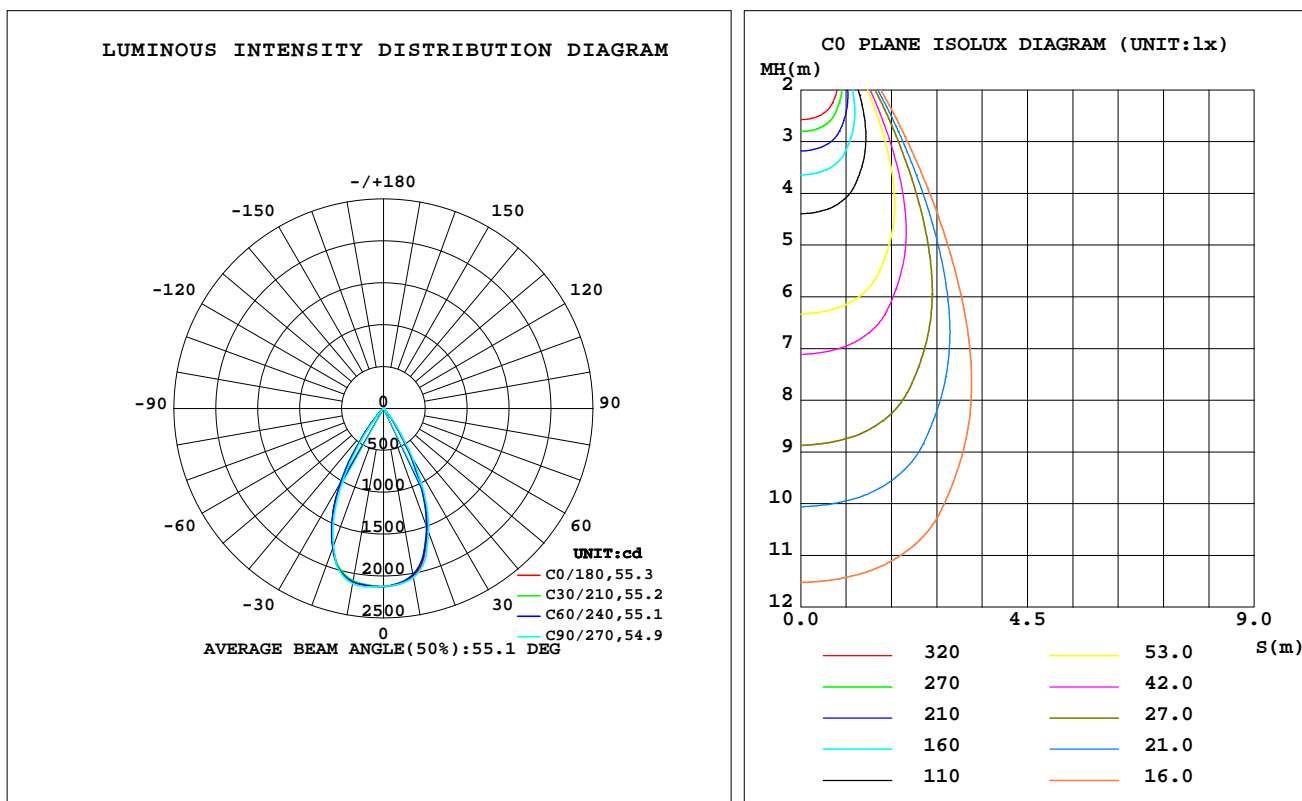
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Test Speed: HIGH
Temperature: 25.3 °C
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Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G2000-C-83 Ra: 90
LENS: PM-1083C 50R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.1995A P:23.709W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181240
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.86 lm/W
MODEL	Bridgelux	I _{max} (cd)	2138	S/MH(C0/180)		0.88
NOMINAL POWER(W)	24	LOR(%)	66.6	S/MH(C90/270)		0.85
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1632.6	η UP,DN(C0-180)		0.0,31.1
NOMINAL FLUX(lm)	2450	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.0,35.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM		0.75
TEST VOLTAGE(V)	120	η down(%)	66.6	CIBSE SHR MAX		0.85



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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	2036	2014	2049	2100	2093	2094	2123	2101	0- 10	200.9	200.9	12.3,8.2
20	1530	1507	1571	1706	1765	1766	1751	1662	10- 20	536.6	737.5	45.2,30.1
30	644.6	631.3	711.6	892.8	1030	1038	942.0	789.7	20- 30	577.8	1315	80.6,53.7
40	89.51	89.82	116.1	173.9	231.6	236.1	176.4	120.3	30- 40	270.3	1586	97.1,64.7
50	10.38	10.91	12.81	18.01	21.22	20.94	15.37	12.16	40- 50	42.45	1628	99.7,66.5
60	1.117	0.9195	0.8999	1.106	0.8377	0.4881	0.5184	0.9395	50- 60	3.796	1632	100,66.6
70	0.3470	0.2810	0.2119	0.2932	0.2595	0.2165	0.1876	0.2563	60- 70	0.5568	1632	100,66.6
80	0.1034	0.0942	0.0946	0.0775	0.0979	0.0776	0.0752	0.0707	70- 80	0.1517	1633	100,66.6
90	0	0	0	0	0	0	0	0	80- 90	0.0519	1633	100,66.6
100	0	0	0	0	0	0	0	0	90-100	0	1633	100,66.6
110	0	0	0	0	0	0	0	0	100-110	0	1633	100,66.6
120	0	0	0	0	0	0	0	0	110-120	0	1633	100,66.6
130	0	0	0	0	0	0	0	0	120-130	0	1633	100,66.6
140	0	0	0	0	0	0	0	0	130-140	0	1633	100,66.6
150	0	0	0	0	0	0	0	0	140-150	0	1633	100,66.6
160	0	0	0	0	0	0	0	0	150-160	0	1633	100,66.6
170	0	0	0	0	0	0	0	0	160-170	0	1633	100,66.6
180	0	0	0	0	0	0	0	0	170-180	0	1633	100,66.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.1995A P:23.709W PF:0.9884 Freq:59.98Hz
Lamp Flux:2450x1 lm

NAME: 2318.137-ACOT-84-AM

TYPE:

WEIGHT:

SPEC.: 3000K

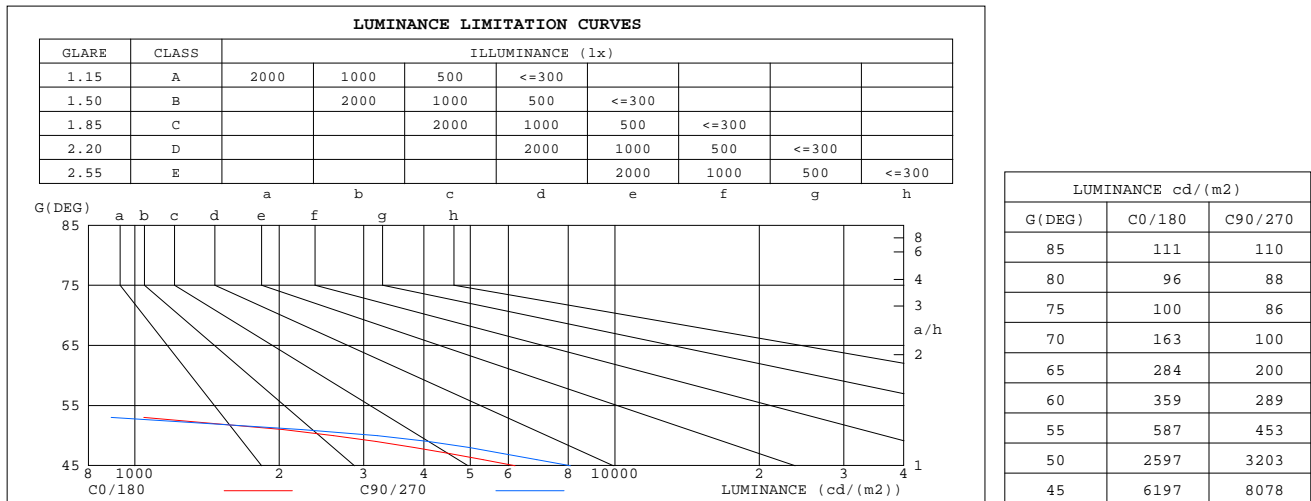
DIM.:

SERIAL No.: 2310181240

MFR.: RISE

SUR.: 0.006217985m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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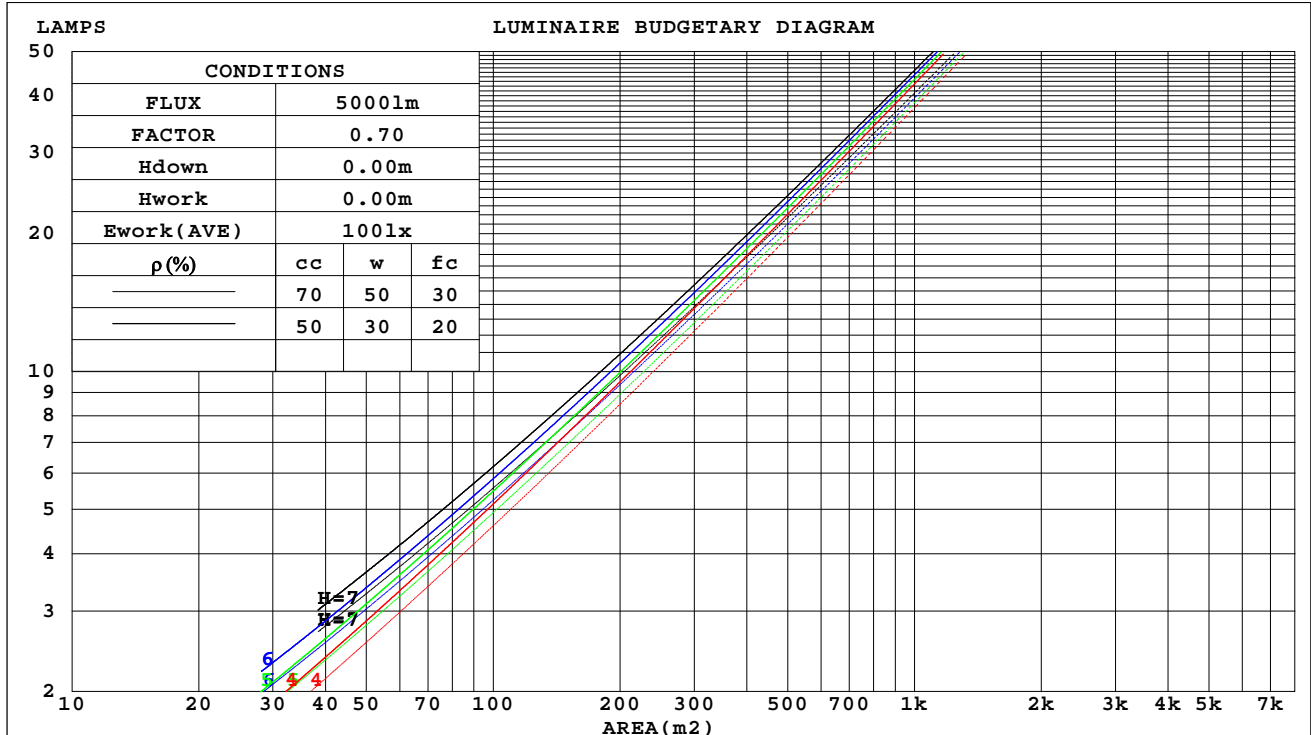
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MFR.: RISE

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	.79	.79	.79	.77	.77	.77	.74	.74	.74	.71	.71	.71	.68	.68	.68	.67
1.0	.74	.73	.71	.73	.71	.70	.70	.69	.68	.68	.67	.66	.65	.65	.64	.63
2.0	.69	.67	.65	.68	.66	.64	.66	.64	.63	.64	.63	.61	.62	.61	.60	.59
3.0	.65	.62	.60	.64	.61	.59	.63	.60	.58	.61	.59	.57	.60	.58	.56	.55
4.0	.61	.58	.55	.61	.57	.55	.59	.56	.54	.58	.56	.54	.57	.55	.53	.52
5.0	.58	.54	.52	.57	.54	.51	.56	.53	.51	.55	.52	.50	.54	.52	.50	.49
6.0	.55	.51	.48	.54	.51	.48	.53	.50	.48	.52	.49	.47	.51	.49	.47	.46
7.0	.52	.48	.45	.51	.48	.45	.50	.47	.45	.50	.47	.45	.49	.46	.44	.44
8.0	.49	.45	.43	.49	.45	.43	.48	.45	.42	.47	.44	.42	.47	.44	.42	.41
9.0	.46	.43	.40	.46	.43	.40	.46	.42	.40	.45	.42	.40	.44	.42	.40	.39
10.0	.44	.41	.38	.44	.40	.38	.43	.40	.38	.43	.40	.38	.42	.40	.38	.37



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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.: 2310181240
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	.111	.063	.020	.107	.061	.019	.099	.057	.018	.091	.052	.017	.084	.049	.016	
2.0	.106	.058	.018	.102	.056	.017	.095	.053	.016	.089	.050	.016	.083	.047	.015	
3.0	.101	.054	.016	.098	.052	.016	.092	.050	.015	.086	.047	.015	.081	.045	.014	
4.0	.096	.050	.015	.093	.049	.014	.088	.047	.014	.084	.045	.014	.079	.043	.013	
5.0	.092	.047	.014	.089	.046	.013	.085	.044	.013	.081	.043	.013	.077	.041	.012	
6.0	.088	.044	.013	.086	.043	.012	.082	.042	.012	.078	.041	.012	.075	.039	.012	
7.0	.084	.042	.012	.082	.041	.012	.079	.040	.011	.076	.039	.011	.073	.038	.011	
8.0	.081	.039	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011	.070	.036	.011	
9.0	.077	.037	.010	.076	.037	.010	.073	.036	.010	.071	.035	.010	.068	.035	.010	
10.0	.074	.036	.010	.073	.035	.010	.071	.035	.010	.068	.034	.010	.066	.033	.010	

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	.108	.108	.108	.074	.074	.074	.043	.043	.043	.014	.014	.014		
1.0	.114	.105	.097	.097	.090	.084	.066	.062	.058	.038	.036	.034	.012	.012	.011		
2.0	.103	.088	.076	.088	.076	.066	.060	.053	.046	.035	.031	.027	.011	.010	.009		
3.0	.094	.076	.061	.081	.065	.053	.056	.045	.037	.032	.026	.022	.010	.009	.007		
4.0	.087	.066	.049	.075	.057	.043	.052	.040	.030	.030	.023	.018	.010	.008	.006		
5.0	.081	.058	.041	.070	.050	.035	.048	.035	.025	.028	.021	.015	.009	.007	.005		
6.0	.076	.052	.034	.066	.045	.030	.045	.031	.021	.026	.018	.012	.008	.006	.004		
7.0	.072	.047	.029	.062	.040	.025	.043	.028	.018	.025	.017	.011	.008	.005	.003		
8.0	.068	.042	.025	.059	.037	.021	.041	.026	.015	.024	.015	.009	.008	.005	.003		
9.0	.065	.039	.021	.056	.034	.019	.039	.024	.013	.023	.014	.008	.007	.005	.003		
10.0	.062	.036	.019	.053	.031	.016	.037	.022	.012	.022	.013	.007	.007	.004	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2310181240		
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	11.9	12.8	12.1	13.0	13.1	12.5	13.4	12.7	13.5	13.7
3H	11.7	12.5	12.0	12.7	12.9	12.3	13.1	12.6	13.3	13.5
4H	11.7	12.4	11.9	12.6	12.9	12.2	13.0	12.5	13.2	13.4
6H	11.6	12.3	11.9	12.5	12.8	12.2	12.9	12.4	13.1	13.4
8H	11.5	12.2	11.8	12.5	12.7	12.1	12.8	12.4	13.1	13.3
12H	11.5	12.1	11.8	12.4	12.7	12.1	12.7	12.4	13.0	13.3
4H 2H	11.7	12.4	11.9	12.6	12.9	12.2	13.0	12.5	13.2	13.4
3H	11.5	12.1	11.8	12.4	12.7	12.1	12.7	12.4	13.0	13.3
4H	11.4	12.0	11.7	12.3	12.6	12.0	12.6	12.3	12.9	13.2
6H	11.3	11.8	11.7	12.1	12.5	11.9	12.4	12.2	12.7	13.1
8H	11.2	11.7	11.6	12.1	12.4	11.8	12.3	12.2	12.7	13.0
12H	11.2	11.6	11.6	12.0	12.4	11.8	12.2	12.2	12.6	13.0
8H 4H	11.2	11.7	11.6	12.1	12.4	11.8	12.3	12.2	12.7	13.0
6H	11.1	11.5	11.6	11.9	12.3	11.7	12.1	12.1	12.5	12.9
8H	11.1	11.4	11.5	11.8	12.3	11.7	12.0	12.1	12.4	12.9
12H	11.0	11.3	11.5	11.8	12.2	11.6	11.9	12.1	12.3	12.8
12H 4H	11.2	11.6	11.6	12.0	12.4	11.8	12.2	12.2	12.6	13.0
6H	11.1	11.4	11.5	11.8	12.3	11.7	12.0	12.1	12.4	12.9
8H	11.0	11.3	11.5	11.8	12.2	11.6	11.9	12.1	12.3	12.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.3 / -20.8					+ 4.7 / -22.8				
1.5H	+ 6.9 / -19.1					+ 7.3 / -20.8				
2.0H	+ 7.2 / -11.4					+ 7.9 / -12.8				

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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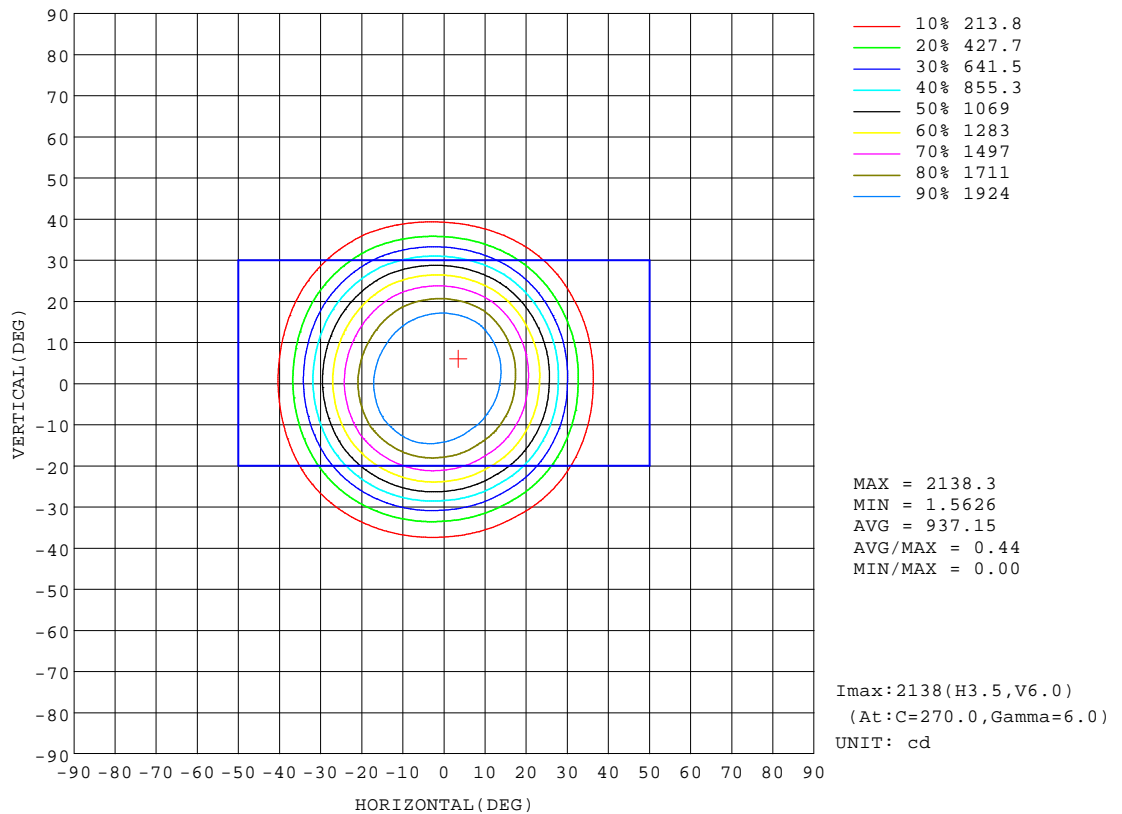
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	56	54	59	56	53	59	56	53	51
0.80	65	61	59	64	61	59	63	60	58	56
1.00	67	64	62	67	64	61	66	63	61	59
1.25	70	67	64	69	66	64	68	65	64	61
1.50	71	69	66	71	68	66	69	67	65	63
2.00	73	70	68	72	70	68	70	68	67	64
2.50	74	72	70	73	71	69	71	69	68	64
3.00	75	73	71	74	72	70	72	70	69	65
4.00	76	74	73	75	73	72	72	71	70	66
5.00	77	76	74	76	74	73	73	72	71	66
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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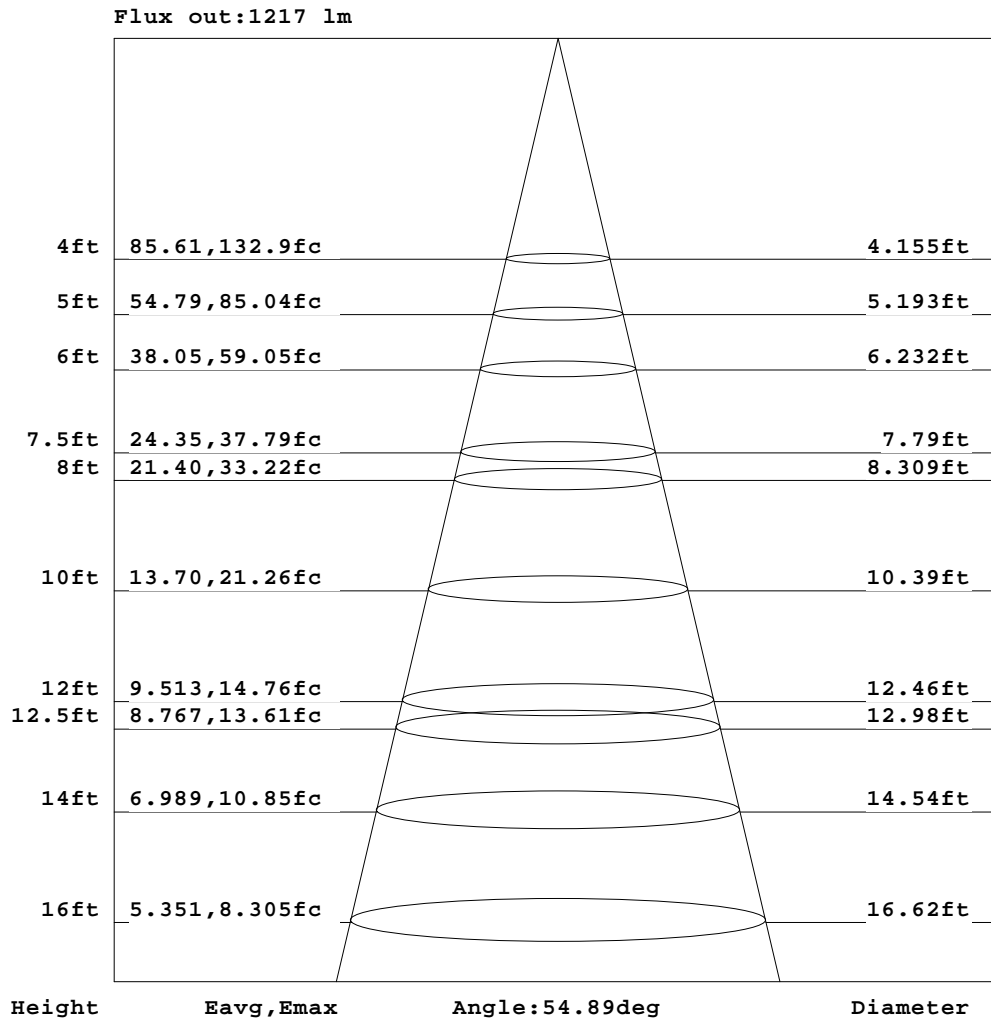


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AAI Figure

Test:U:120.07V I:0.1995A P:23.709W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181240
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



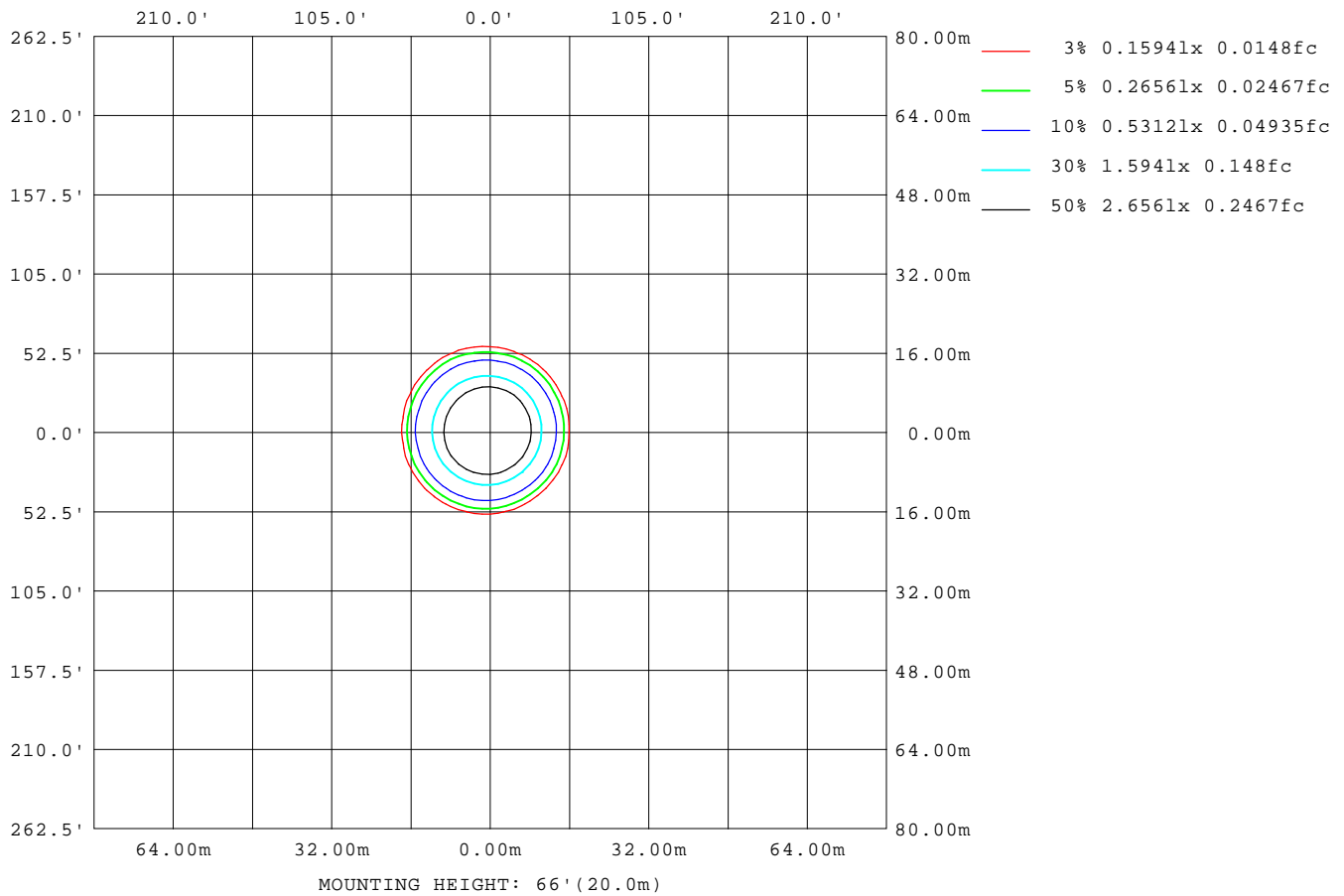
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-1083C 50R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.07V I:0.1995A P:23.709W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181240
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-1083C 50R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

LED Avg.L Report

Test:U:120.07V I:0.1995A P:23.709W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181240
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

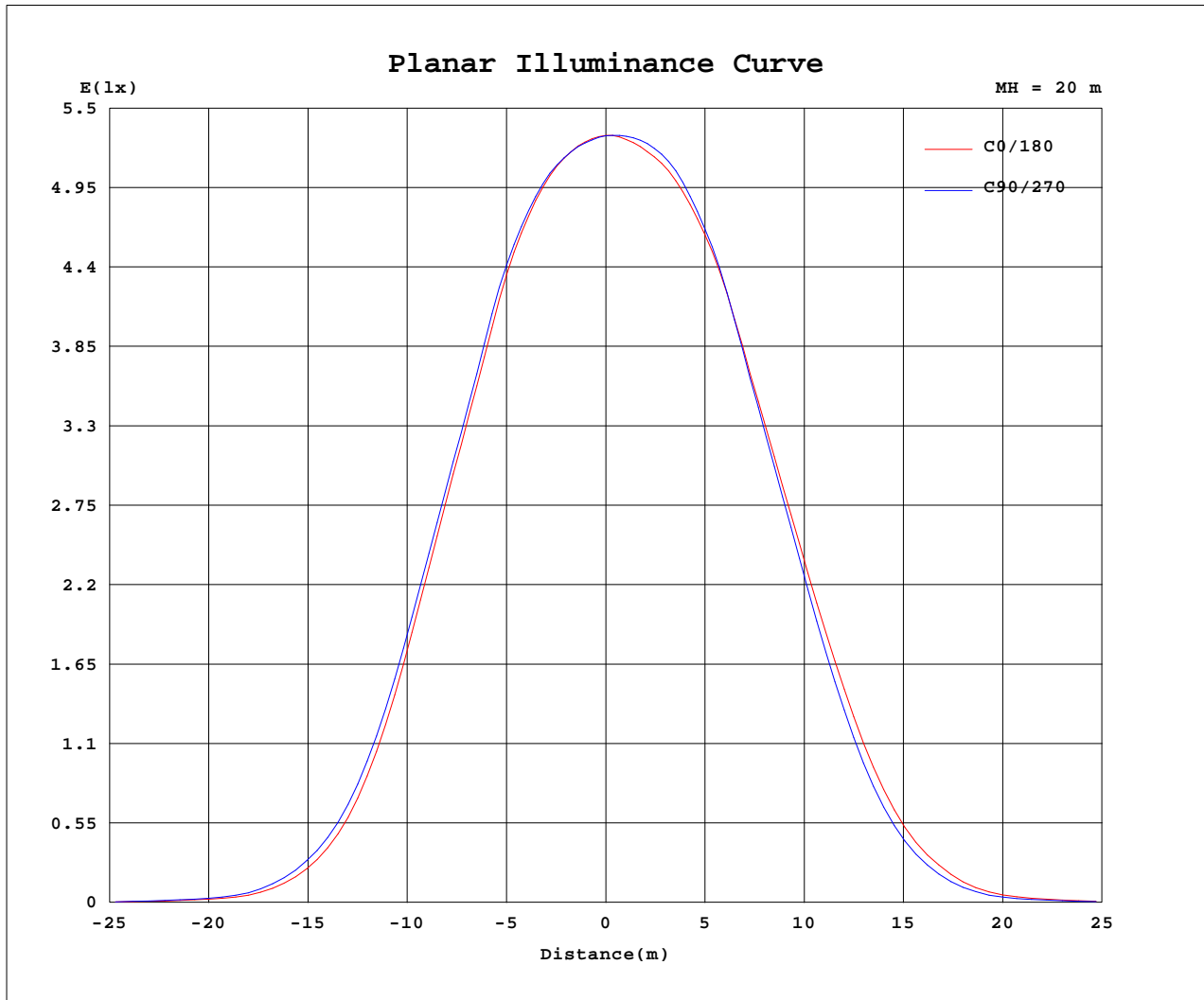
AvgL	cd/m2
L_0~180(65)av	252
L_0~180(75)av	93
L_0~180(85)av	110
L_90~270(65)av	161
L_90~270(75)av	80
L_90~270(85)av	97
L_45(65)av	221
L_45(75)av	80
L_45(85)av	69

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-1083C 50R
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-1083C 50R
 DRIVER: PUP40A-1WMC-850 600mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.1995A P:23.709W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181240
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	2125	2125	2125	2125	2125	2125	2125	2125	2125	2125	2125	2125						
5	2104	2092	2093	2105	2120	2127	2118	2115	2124	2137	2135	2120						
10	2036	2012	2016	2049	2092	2107	2093	2086	2102	2123	2124	2078						
15	1854	1827	1829	1891	1971	2009	2001	1989	2006	2017	2017	1932						
20	1530	1506	1508	1571	1663	1749	1765	1758	1774	1751	1715	1608						
25	1126	1100	1107	1182	1285	1399	1443	1444	1452	1397	1330	1209						
30	645	629	634	712	830	956	1030	1043	1034	942	853	726						
35	276	270	277	329	408	499	570	591	570	482	405	322						
40	89.5	87.5	92.2	116	150	198	232	240	233	176	136	104						
45	27.2	27.8	29.6	35.5	43.4	53.1	60.1	63.9	59.7	43.1	33.6	28.8						
50	10.4	10.6	11.2	12.8	15.9	20.2	21.2	21.6	20.2	15.4	13.0	11.3						
55	2.09	1.97	1.76	1.62	2.22	3.57	3.38	2.83	1.92	1.77	2.10	2.28						
60	1.12	0.93	0.91	0.90	1.02	1.20	0.84	0.52	0.46	0.52	0.75	1.13						
65	0.75	0.67	0.60	0.53	0.63	0.83	0.58	0.38	0.32	0.32	0.43	0.74						
70	0.35	0.33	0.24	0.21	0.23	0.36	0.26	0.24	0.19	0.19	0.20	0.31						
75	0.16	0.16	0.14	0.14	0.12	0.13	0.14	0.12	0.12	0.12	0.11	0.13						
80	0.10	0.10	0.09	0.09	0.07	0.08	0.10	0.08	0.07	0.08	0.06	0.08						
85	0.06	0.05	0.05	0.06	0.03	0.04	0.06	0.04	0.04	0.05	0.03	0.03						
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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