

Luminaire Photograph



Light Output Ratio:	61.9%	
Luminaire Power:	15.84 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: 2023-12-1

Range: 0 - 180DEG
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

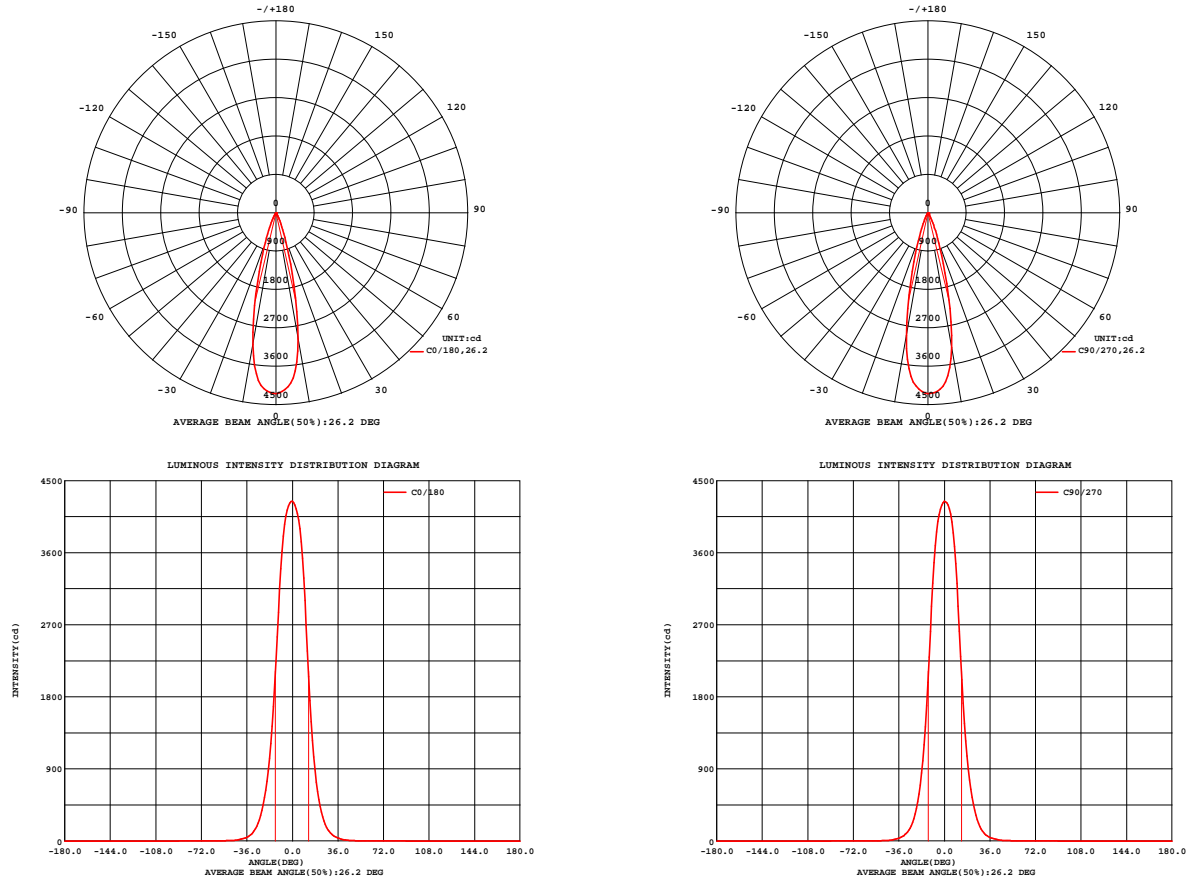


Fig. C0/C180

Fig. C90/C270

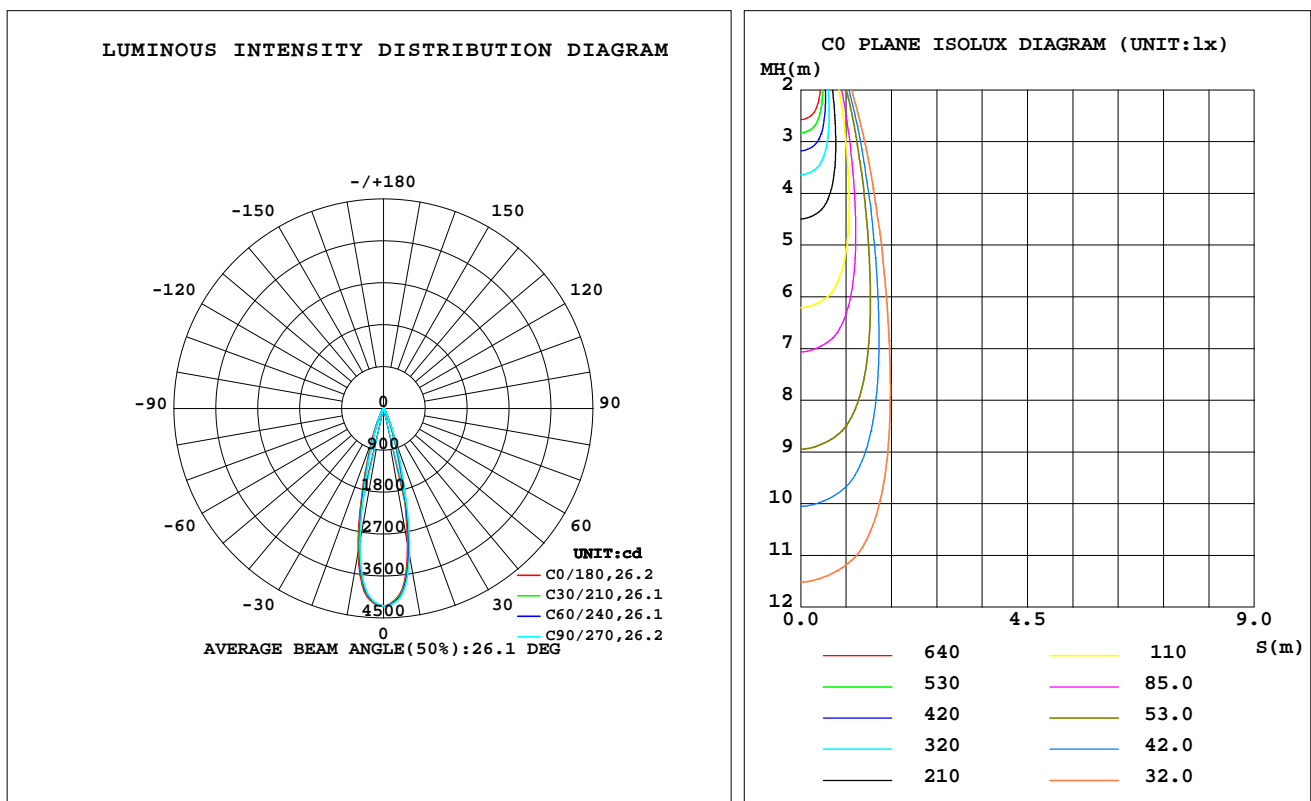
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
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Test Date: 2023-12-1

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Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.13V I:0.1328A P:15.841W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011405
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 61.76 lm/W
MODEL	Bridgelux	Imax(cd)	4241	S/MH(C0/180)	0.44	
NOMINAL POWER(W)	16	LOR(%)	61.9	S/MH(C90/270)	0.41	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	978.35	UP,DN(C0-180)	0.0,32.1	
NOMINAL FLUX(lm)	1579.4	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,29.8	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	120	down(%)	61.9	CIBSE SHR MAX	0.30	



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	3003	3124	3214	3216	3141	3016	2932	2940	0- 10	355.2	355.2	36.3,22.5
20	616.2	689.6	761.7	790.0	745.4	646.2	584.8	575.5	10- 20	441.5	796.7	81.4,50.4
30	102.4	115.1	125.9	129.7	127.9	108.4	94.04	92.76	20- 30	139.1	935.8	95.6,59.2
40	19.24	22.23	24.05	24.12	24.04	19.97	17.58	18.07	30- 40	33.14	968.9	99,61.3
50	3.790	4.713	4.895	4.499	5.072	4.089	3.995	3.926	40- 50	7.142	976.1	99.8,61.8
60	0.2441	0.2753	0.3054	0.2813	0.2425	0.1621	0.1428	0.1619	50- 60	1.982	978.1	100,61.9
70	0.1598	0.1698	0.1727	0.1601	0.1506	0.1198	0.1161	0.1179	60- 70	0.1821	978.2	100,61.9
80	0.0580	0.0461	0.0465	0.0393	0.0477	0.0392	0.0425	0.0335	70- 80	0.0827	978.3	100,61.9
90	0	0	0	0	0	0	0	0	80- 90	0.0314	978.3	100,61.9
100	0	0	0	0	0	0	0	0	90-100	0	978.3	100,61.9
110	0	0	0	0	0	0	0	0	100-110	0	978.3	100,61.9
120	0	0	0	0	0	0	0	0	110-120	0	978.3	100,61.9
130	0	0	0	0	0	0	0	0	120-130	0	978.3	100,61.9
140	0	0	0	0	0	0	0	0	130-140	0	978.3	100,61.9
150	0	0	0	0	0	0	0	0	140-150	0	978.3	100,61.9
160	0	0	0	0	0	0	0	0	150-160	0	978.3	100,61.9
170	0	0	0	0	0	0	0	0	160-170	0	978.3	100,61.9
180	0	0	0	0	0	0	0	0	170-180	0	978.3	100,61.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Range: 0 - 180DEG
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

LUMINANCE LIMITATION CURVES

Test:U:120.13V I:0.1328A P:15.841W PF:0.9920 Freq:59.98Hz
Lamp Flux:1579.4x1 lm

NAME: 2318.111-LEA-14(400mA)

TYPE:

WEIGHT:

SPEC.: 3000K

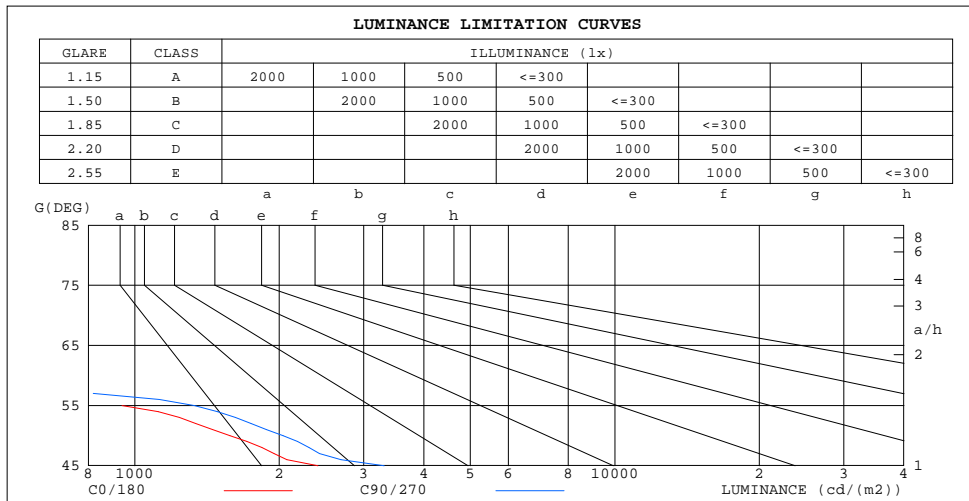
DIM.:

SERIAL No.: 2312011405

MFR.: RISE

SUR.: 0.003737385m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	130	123
80	89	72
75	79	86
70	125	135
65	138	143
60	131	163
55	940	1331
50	1578	2038
45	2407	3309

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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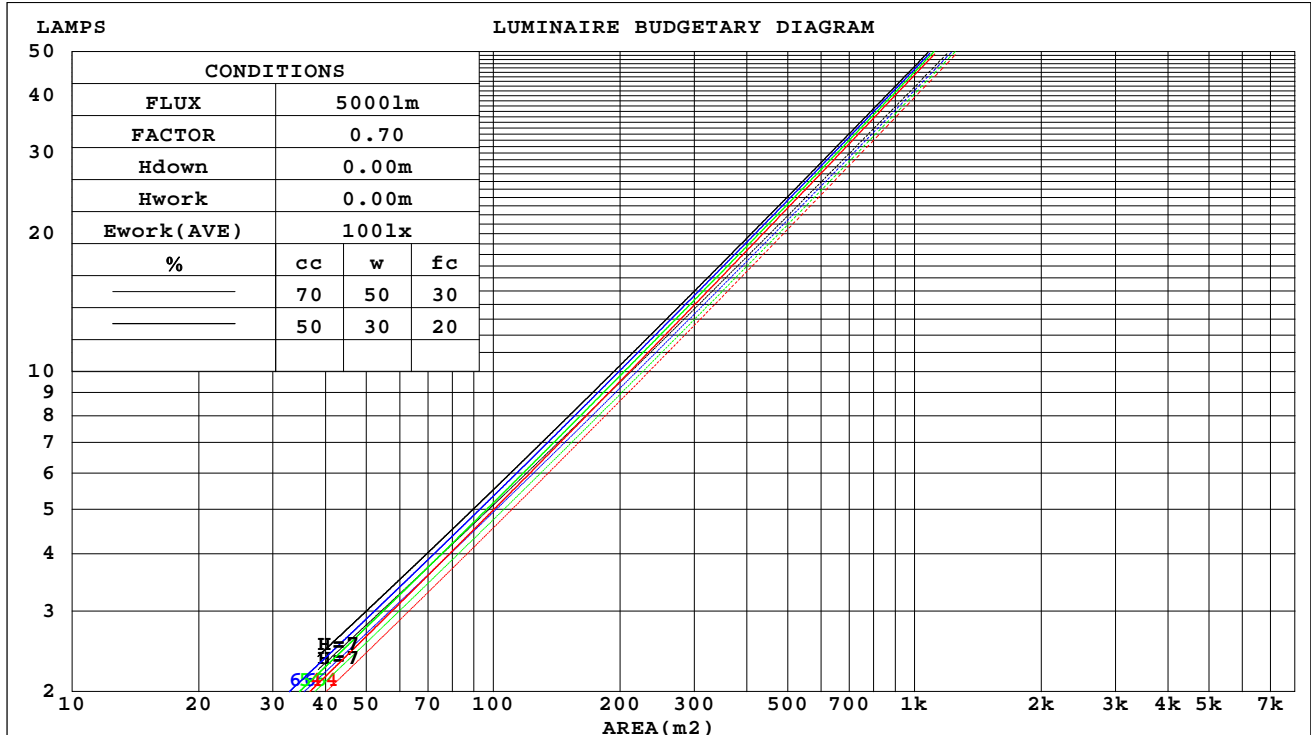
SERIAL No.: 2312011405

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SUR.: 0.003737385m2

Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.74	.74	.74	.72	.72	.72	.69	.69	.69	.66	.66	.66	.63	.63	.63	.62
1.0	.70	.69	.68	.69	.68	.67	.66	.65	.65	.64	.63	.63	.62	.61	.61	.60
2.0	.67	.65	.63	.66	.64	.63	.64	.63	.61	.62	.61	.60	.60	.60	.59	.58
3.0	.64	.62	.60	.63	.61	.60	.62	.60	.59	.60	.59	.58	.59	.58	.57	.56
4.0	.62	.59	.57	.61	.59	.57	.60	.58	.56	.59	.57	.56	.58	.56	.55	.54
5.0	.59	.57	.55	.59	.57	.55	.58	.56	.54	.57	.55	.54	.56	.55	.53	.53
6.0	.57	.55	.53	.57	.55	.53	.56	.54	.53	.55	.54	.52	.55	.53	.52	.51
7.0	.56	.53	.51	.55	.53	.51	.55	.52	.51	.54	.52	.51	.53	.52	.50	.50
8.0	.54	.51	.50	.54	.51	.50	.53	.51	.49	.53	.51	.49	.52	.50	.49	.48
9.0	.52	.50	.48	.52	.50	.48	.52	.50	.48	.51	.49	.48	.51	.49	.48	.47
10.0	.51	.49	.47	.51	.48	.47	.50	.48	.47	.50	.48	.47	.50	.48	.47	.46



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WEC AND CCEC

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NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011405
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.083	.047	.015	.079	.045	.014	.072	.041	.013	.065	.037	.012	.058	.034	.011	
2.0	.077	.042	.013	.074	.041	.013	.068	.038	.012	.062	.035	.011	.056	.032	.010	
3.0	.072	.038	.011	.069	.037	.011	.064	.035	.011	.059	.032	.010	.055	.030	.009	
4.0	.067	.035	.010	.065	.034	.010	.061	.032	.010	.057	.030	.009	.053	.029	.009	
5.0	.064	.032	.009	.062	.032	.009	.058	.030	.009	.054	.029	.009	.051	.027	.008	
6.0	.060	.030	.009	.058	.029	.008	.055	.028	.008	.052	.027	.008	.049	.026	.008	
7.0	.057	.028	.008	.056	.028	.008	.053	.027	.008	.050	.026	.007	.048	.025	.007	
8.0	.054	.027	.007	.053	.026	.007	.051	.025	.007	.048	.024	.007	.046	.024	.007	
9.0	.052	.025	.007	.051	.025	.007	.049	.024	.007	.047	.023	.007	.045	.023	.007	
10.0	.050	.024	.007	.049	.024	.007	.047	.023	.006	.045	.022	.006	.043	.022	.006	

cc	80%			70%			50%			30%			10%			0	
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.118	.118	.118	.101	.101	.101	.069	.069	.069	.040	.040	.040	.013	.013	.013		
1.0	.104	.098	.092	.089	.084	.079	.061	.058	.055	.035	.033	.032	.011	.011	.010		
2.0	.093	.082	.073	.080	.071	.063	.055	.049	.044	.031	.028	.026	.010	.009	.008		
3.0	.084	.070	.059	.072	.061	.052	.049	.042	.036	.028	.025	.021	.009	.008	.007		
4.0	.076	.061	.049	.065	.052	.043	.045	.037	.030	.026	.021	.018	.008	.007	.006		
5.0	.069	.053	.041	.059	.046	.036	.041	.032	.025	.024	.019	.015	.008	.006	.005		
6.0	.064	.047	.035	.055	.040	.030	.038	.028	.021	.022	.017	.013	.007	.005	.004		
7.0	.059	.042	.030	.051	.036	.026	.035	.025	.018	.020	.015	.011	.007	.005	.004		
8.0	.055	.037	.026	.047	.033	.022	.033	.023	.016	.019	.013	.009	.006	.004	.003		
9.0	.051	.034	.022	.044	.029	.019	.031	.021	.014	.018	.012	.008	.006	.004	.003		
10.0	.048	.031	.019	.042	.027	.017	.029	.019	.012	.017	.011	.007	.005	.004	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2312011405		
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	5.1	5.8	5.3	5.9	6.1	6.1	6.7	6.3	6.8	7.0
3H	5.0	5.6	5.2	5.8	6.0	5.9	6.5	6.1	6.7	6.9
4H	4.9	5.5	5.2	5.7	5.9	5.8	6.4	6.1	6.6	6.8
6H	4.8	5.4	5.1	5.6	5.8	5.7	6.3	6.0	6.5	6.7
8H	4.8	5.3	5.1	5.6	5.8	5.7	6.2	6.0	6.5	6.7
12H	4.7	5.2	5.0	5.5	5.8	5.7	6.2	6.0	6.4	6.7
4H 2H	4.9	5.5	5.2	5.7	5.9	5.8	6.4	6.1	6.6	6.8
3H	4.8	5.3	5.1	5.5	5.8	5.7	6.2	6.0	6.4	6.7
4H	4.7	5.1	5.0	5.4	5.7	5.6	6.0	5.9	6.3	6.6
6H	4.6	5.0	4.9	5.3	5.6	5.5	5.9	5.8	6.2	6.5
8H	4.5	4.9	4.9	5.2	5.6	5.4	5.8	5.8	6.1	6.5
12H	4.5	4.8	4.9	5.2	5.6	5.4	5.7	5.8	6.1	6.5
8H 4H	4.5	4.9	4.9	5.2	5.6	5.4	5.8	5.8	6.1	6.5
6H	4.4	4.7	4.8	5.1	5.5	5.3	5.6	5.7	6.0	6.4
8H	4.3	4.6	4.8	5.0	5.5	5.2	5.5	5.7	5.9	6.4
12H	4.3	4.5	4.7	5.0	5.4	5.2	5.4	5.6	5.9	6.3
12H 4H	4.5	4.8	4.9	5.2	5.6	5.4	5.7	5.8	6.1	6.5
6H	4.3	4.6	4.8	5.0	5.5	5.2	5.5	5.7	5.9	6.4
8H	4.3	4.5	4.7	5.0	5.4	5.2	5.4	5.6	5.9	6.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.3 / -12.7					+ 3.7 / -12.7				
1.5H	+ 5.4 / - 6.0					+ 5.8 / - 5.8				
2.0H	+ 4.4 / -11.8					+ 5.1 / -13.0				

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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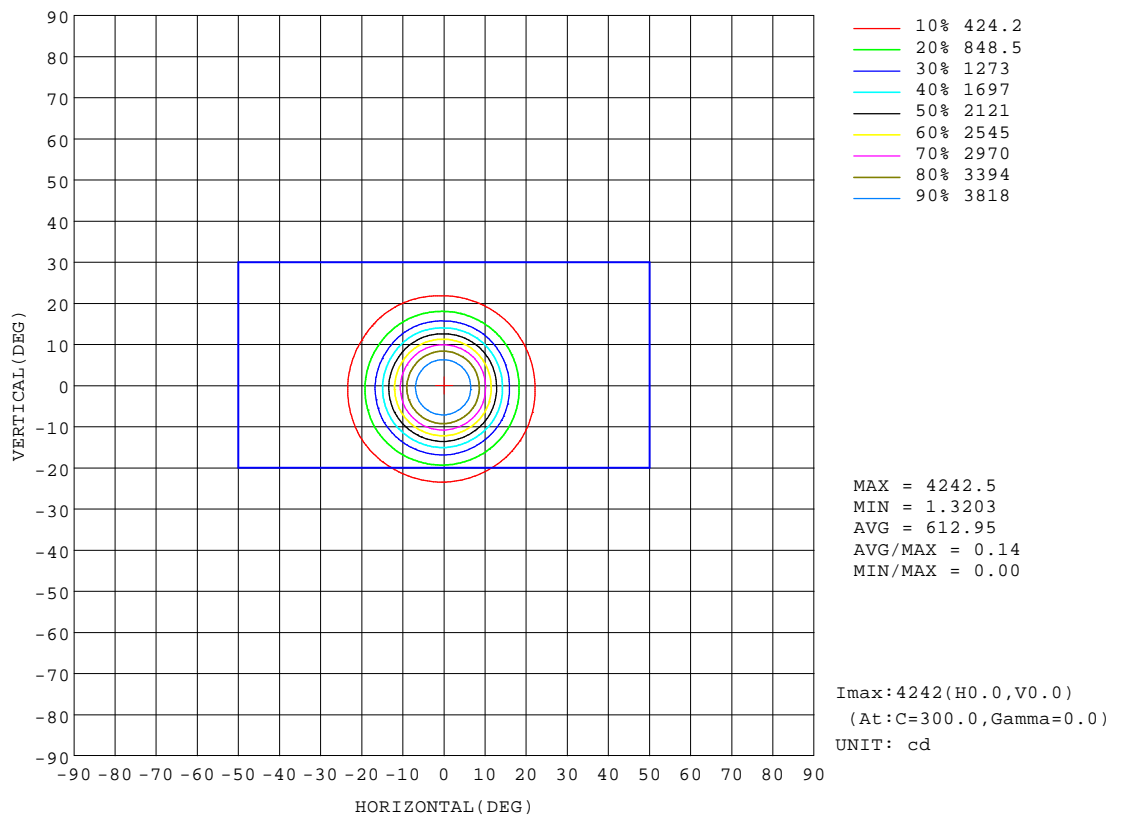
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	53	51	56	53	51	56	52	51	49
0.80	61	57	55	60	57	55	60	57	55	53
1.00	63	60	58	62	60	58	62	59	57	55
1.25	65	62	60	65	62	60	63	61	60	57
1.50	67	64	62	66	64	62	65	63	61	59
2.00	68	66	64	67	65	63	66	64	63	59
2.50	69	67	65	68	66	65	66	65	63	60
3.00	70	68	66	69	67	66	67	65	64	60
4.00	71	69	68	70	68	67	68	66	66	61
5.00	72	70	69	70	69	68	68	67	67	62
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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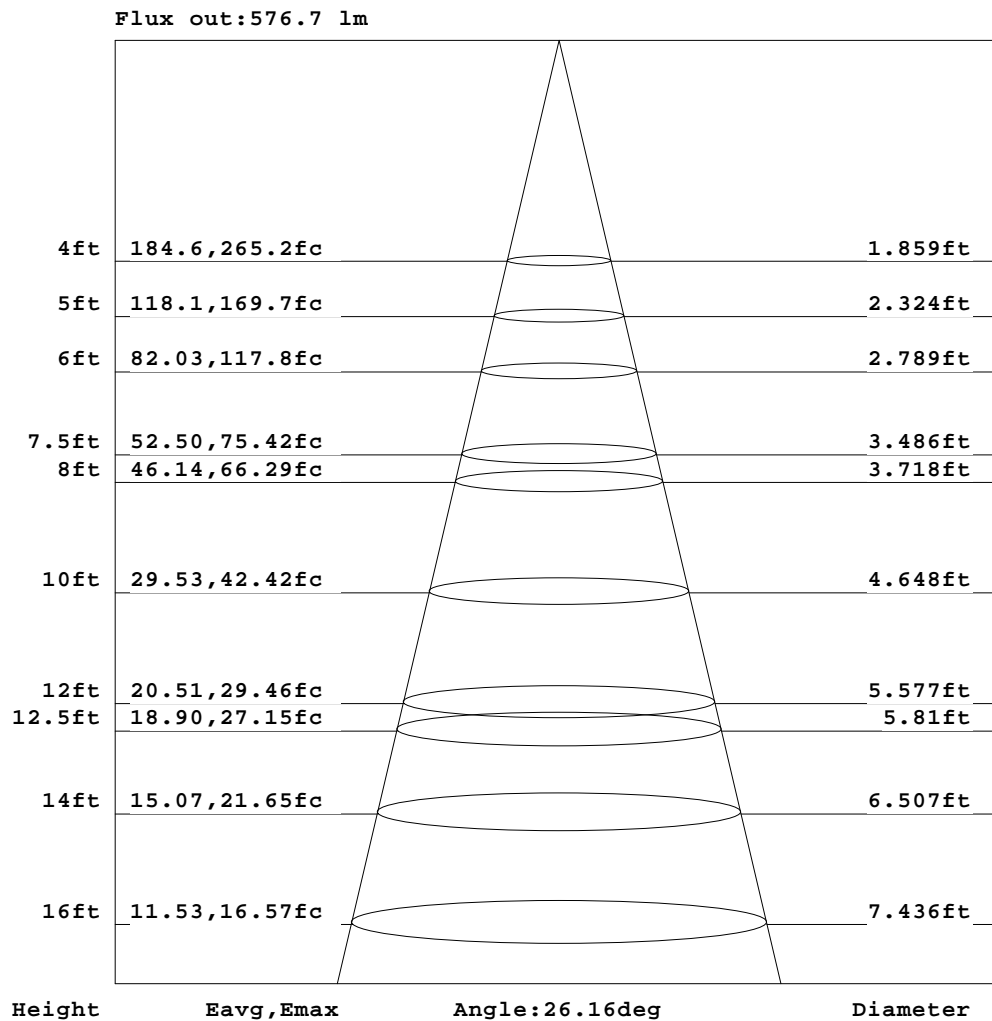


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Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1082 15R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

AAI Figure

Test:U:120.13V I:0.1328A P:15.841W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011405
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



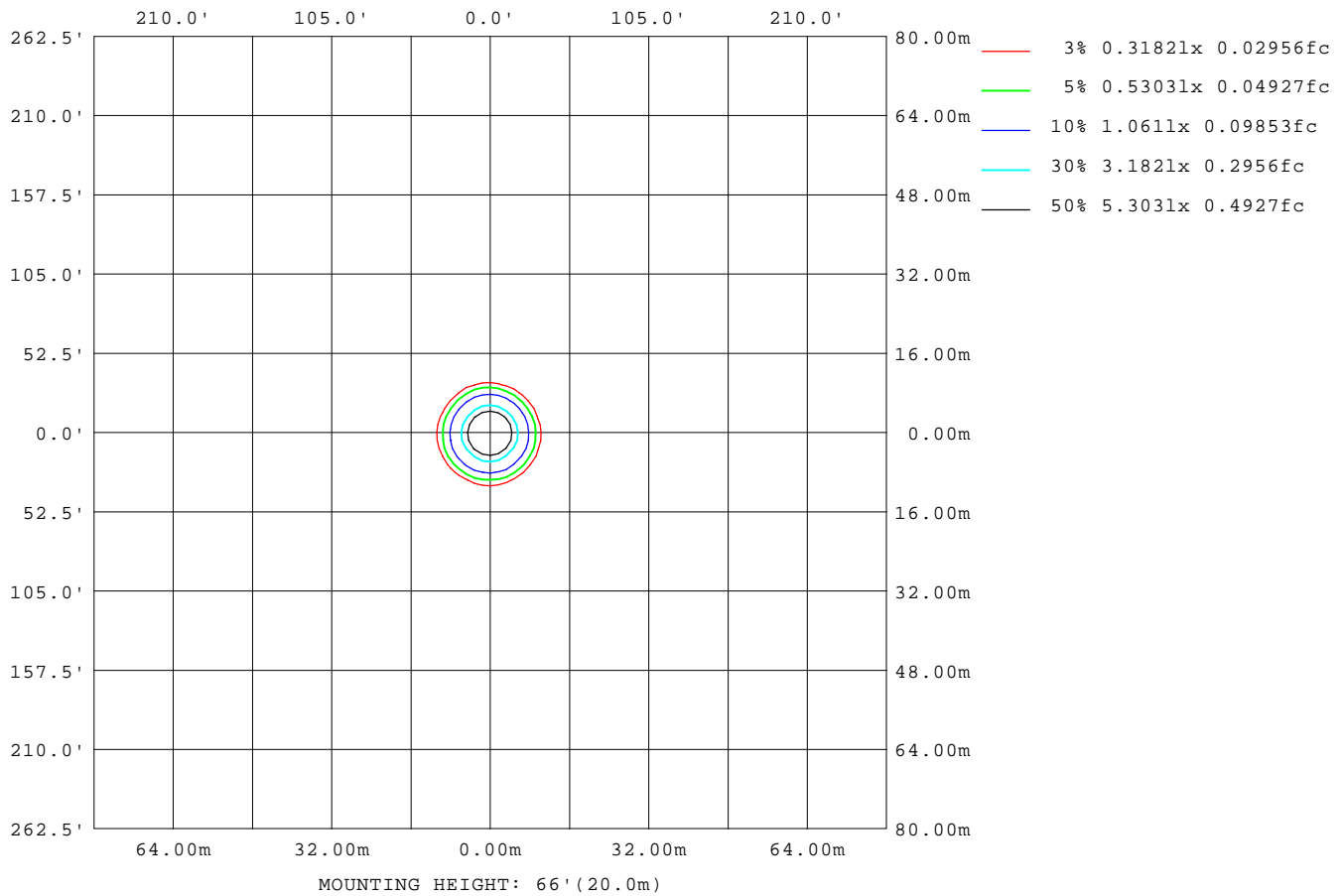
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: zoe
Test Date: 2023-12-1

Range: 0 - 180DEG
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:120.13V I:0.1328A P:15.841W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011405
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:2023-12-1

Range: 0 - 180DEG
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

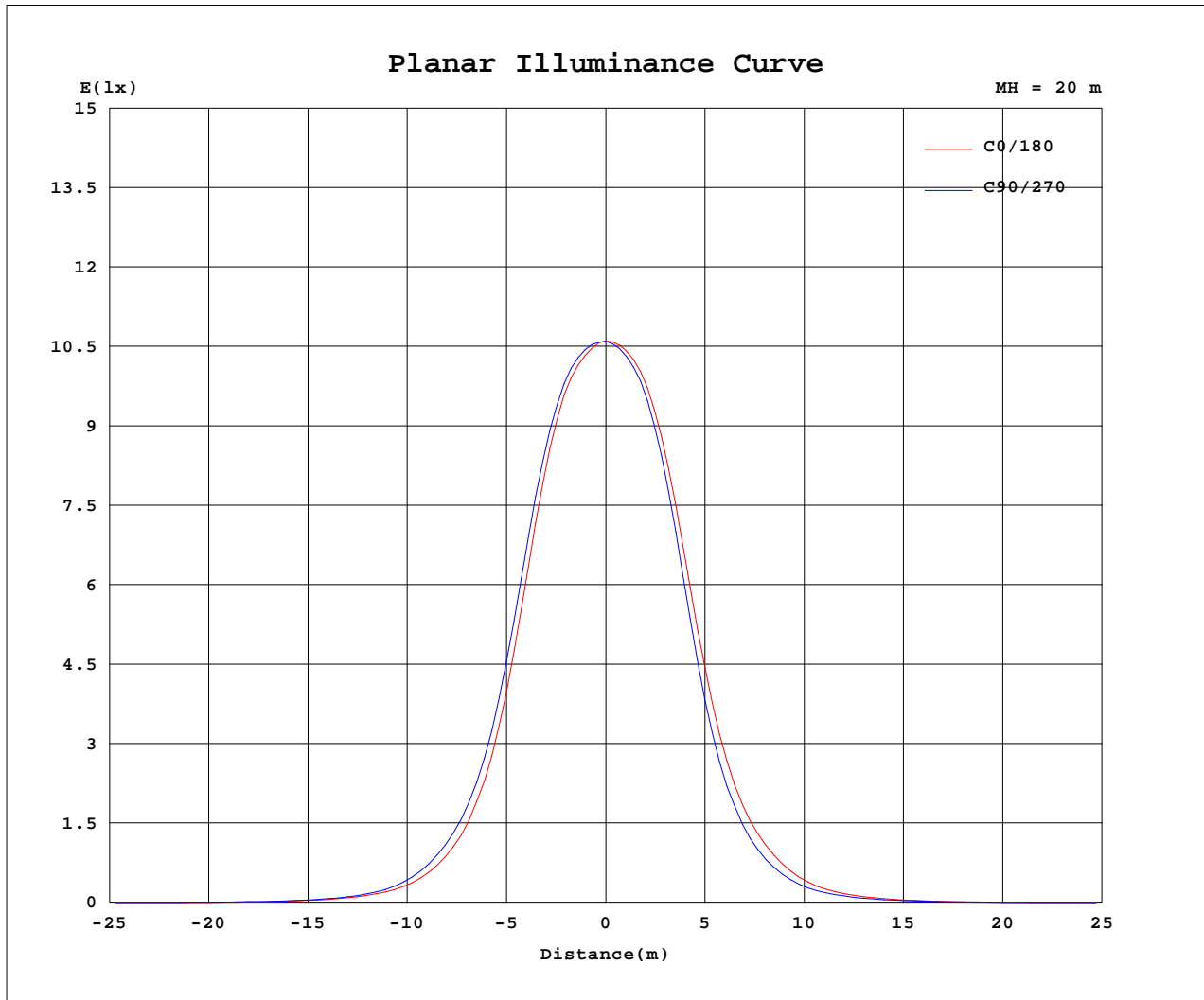
Test:U:120.13V I:0.1328A P:15.841W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011405
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	134
L_0~180(75)av	74
L_0~180(85)av	119
L_90~270(65)av	114
L_90~270(75)av	70
L_90~270(85)av	117
L_45(65)av	116
L_45(75)av	64
L_45(85)av	71

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-12-1

Range: 0 - 180DEG
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: 2023-12-1

Range: 0 - 180DEG
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:120.13V I:0.1328A P:15.841W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011405
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241						
5	4007	4041	4062	4083	4088	4082	4059	4025	4008	3989	3984	3991						
10	3003	3100	3147	3214	3226	3207	3141	3045	2988	2932	2926	2954						
15	1488	1587	1634	1719	1735	1739	1677	1549	1499	1425	1425	1439						
20	616	670	709	762	791	789	745	662	630	585	571	580						
25	249	275	297	321	324	338	318	276	260	231	225	229						
30	102	112	119	126	126	134	128	112	105	94.0	90.5	95.0						
35	44.6	48.6	51.9	54.4	54.3	57.1	55.2	48.6	45.0	41.0	40.1	42.2						
40	19.2	21.3	23.2	24.0	23.6	24.7	24.0	20.7	19.2	17.6	17.7	18.4						
45	6.36	7.42	8.97	8.75	8.37	8.33	8.29	6.77	6.09	5.99	5.99	6.22						
50	3.79	4.34	5.08	4.90	4.16	4.84	5.07	4.42	3.76	3.99	3.92	3.93						
55	2.01	2.59	3.20	2.85	2.28	2.81	3.15	2.45	1.99	1.91	2.08	1.97						
60	0.24	0.27	0.28	0.31	0.29	0.27	0.24	0.18	0.15	0.14	0.15	0.18						
65	0.22	0.23	0.23	0.23	0.22	0.21	0.20	0.16	0.14	0.13	0.14	0.16						
70	0.16	0.17	0.17	0.17	0.16	0.16	0.15	0.12	0.12	0.12	0.12	0.12						
75	0.08	0.07	0.08	0.08	0.07	0.07	0.07	0.06	0.05	0.05	0.05	0.05						
80	0.06	0.04	0.05	0.05	0.04	0.04	0.05	0.04	0.04	0.04	0.03	0.04						
85	0.04	0.03	0.03	0.04	0.03	0.02	0.04	0.03	0.03	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
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