

Luminaire Photograph



Light Output Ratio:	68.9%	
Luminaire Power:	15.88 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: 2023-12-1

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-1082A 24R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

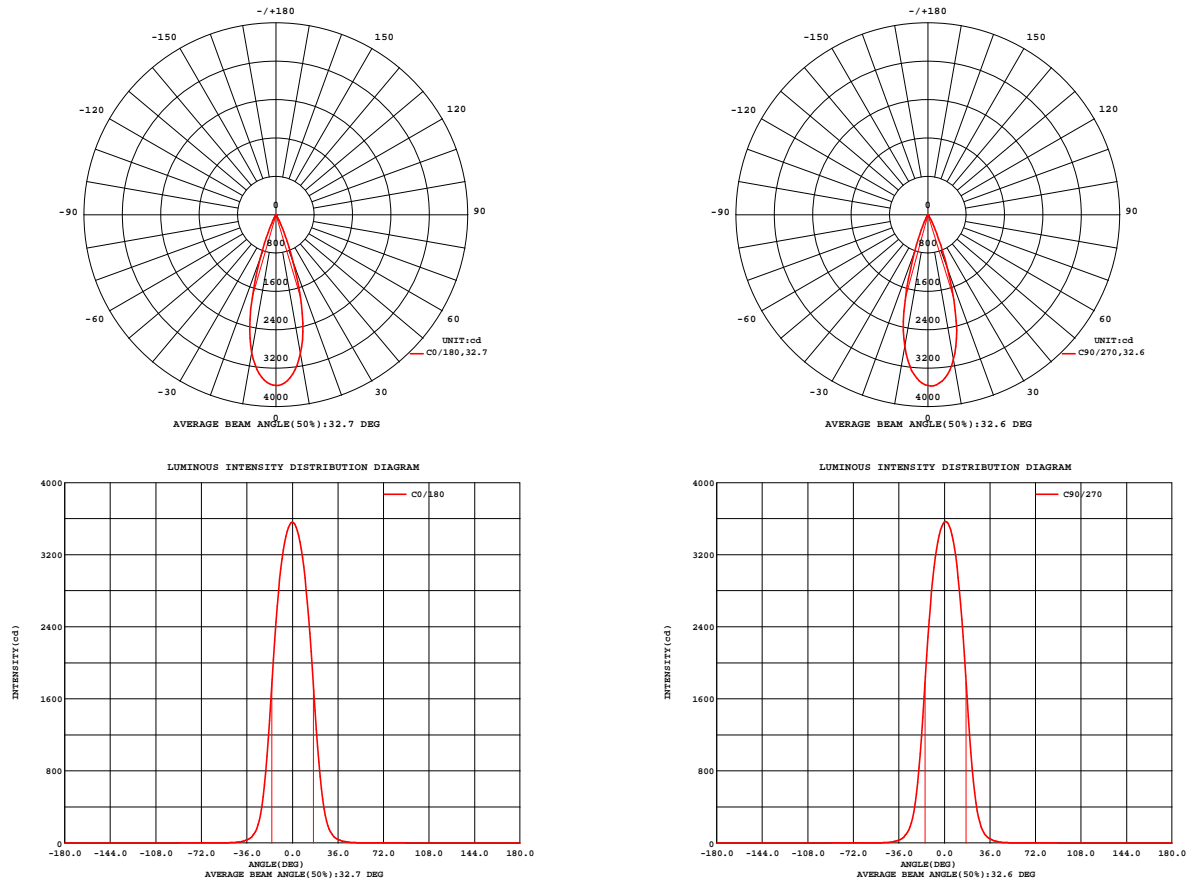


Fig. C0/C180

Fig. C90/C270

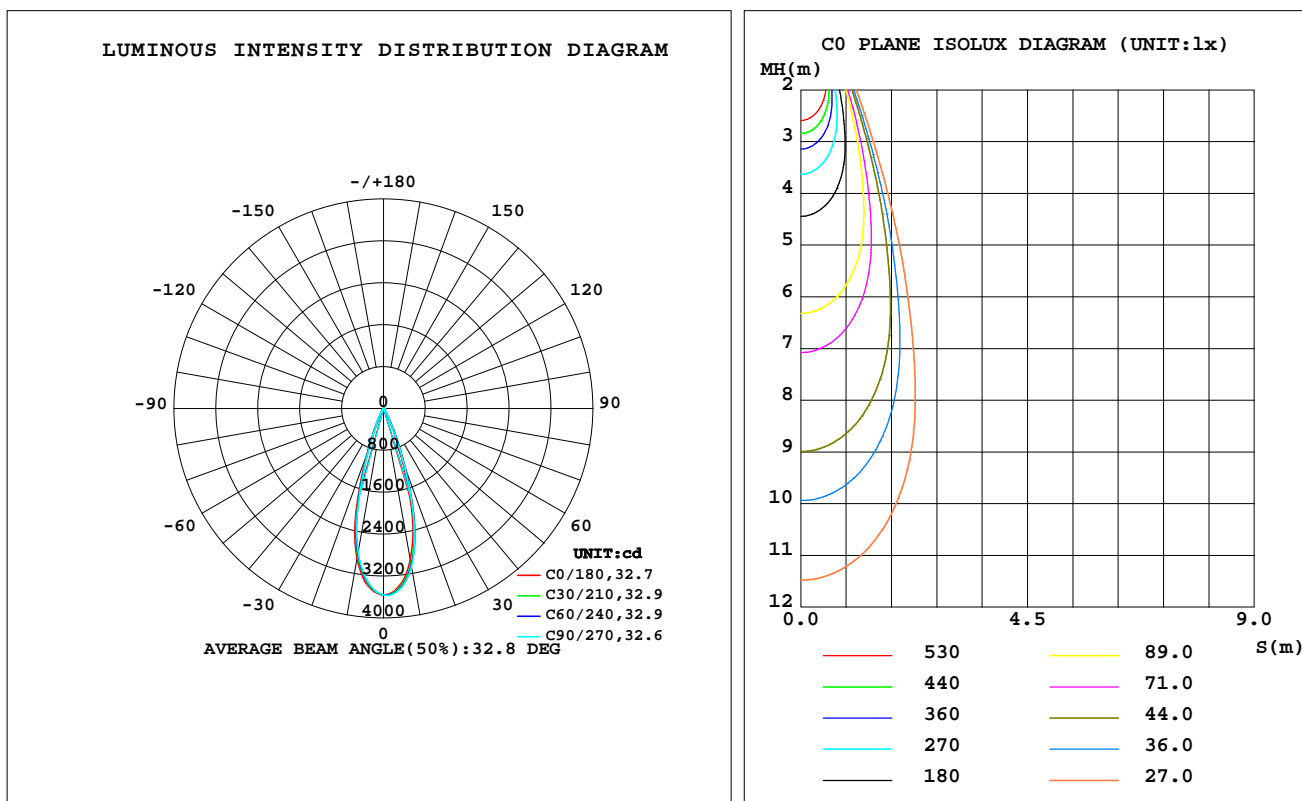
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-12-1

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Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
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DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.12V I:0.1331A P:15.877W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011406
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.58 lm/W
MODEL	Bridgelux	Imax(cd)	3568	S/MH(C0/180)	0.50	
NOMINAL POWER(W)	16	LOR(%)	68.9	S/MH(C90/270)	0.48	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1088.8	UP,DN(C0-180)	0.0,36.9	
NOMINAL FLUX(lm)	1579.4	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,32.0	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	down(%)	68.9	CIBSE SHR MAX	0.50	



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Interval: 1.0DEG
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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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	2944	3036	3069	3024	2922	2835	2792	2835	0- 10	310.3	310.3	28.5,19.6
20	1069	1203	1197	1109	962.8	873.8	834.3	914.7	10- 20	547.8	858.1	78.8,54.3
30	126.2	153.7	147.0	130.3	104.3	100.2	97.12	107.7	20- 30	189.2	1047	96.2,66.3
40	20.75	23.82	22.60	20.44	16.89	16.15	15.63	17.59	30- 40	33.22	1081	99.2,68.4
50	3.775	4.092	3.737	3.698	3.225	2.938	3.035	3.392	40- 50	6.544	1087	99.8,68.8
60	0.2676	0.2645	0.1992	0.1496	0.1403	0.1896	0.2022	0.2149	50- 60	1.494	1089	100,68.9
70	0.1615	0.1398	0.1191	0.1113	0.1077	0.1170	0.1317	0.1352	60- 70	0.1622	1089	100,68.9
80	0.0537	0.0403	0.0428	0.0347	0.0463	0.0343	0.0450	0.0318	70- 80	0.0721	1089	100,68.9
90	0	0	0	0	0	0	0	0	80- 90	0.0311	1089	100,68.9
100	0	0	0	0	0	0	0	0	90-100	0	1089	100,68.9
110	0	0	0	0	0	0	0	0	100-110	0	1089	100,68.9
120	0	0	0	0	0	0	0	0	110-120	0	1089	100,68.9
130	0	0	0	0	0	0	0	0	120-130	0	1089	100,68.9
140	0	0	0	0	0	0	0	0	130-140	0	1089	100,68.9
150	0	0	0	0	0	0	0	0	140-150	0	1089	100,68.9
160	0	0	0	0	0	0	0	0	150-160	0	1089	100,68.9
170	0	0	0	0	0	0	0	0	160-170	0	1089	100,68.9
180	0	0	0	0	0	0	0	0	170-180	0	1089	100,68.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Range: 0 - 180DEG
Interval: 1.0DEG
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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LENS:PM-1082A 24R
DRIVER:PUP20A-1WMC 400mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.12V I:0.1331A P:15.877W PF:0.9920 Freq:59.98Hz
Lamp Flux:1579.4x1 lm

NAME: 2318.111-LEA-14(400mA)

TYPE:

WEIGHT:

SPEC.: 3000K

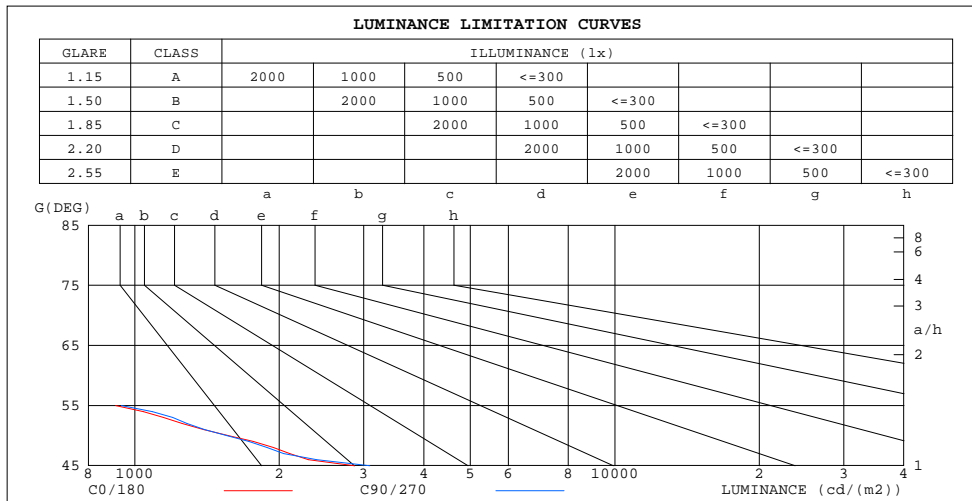
DIM.:

SERIAL No.: 2312011406

MFR.: RISE

SUR.: 0.003737385m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	139	115
80	83	66
75	79	62
70	126	93
65	130	81
60	143	107
55	912	937
50	1570	1556
45	2867	3088

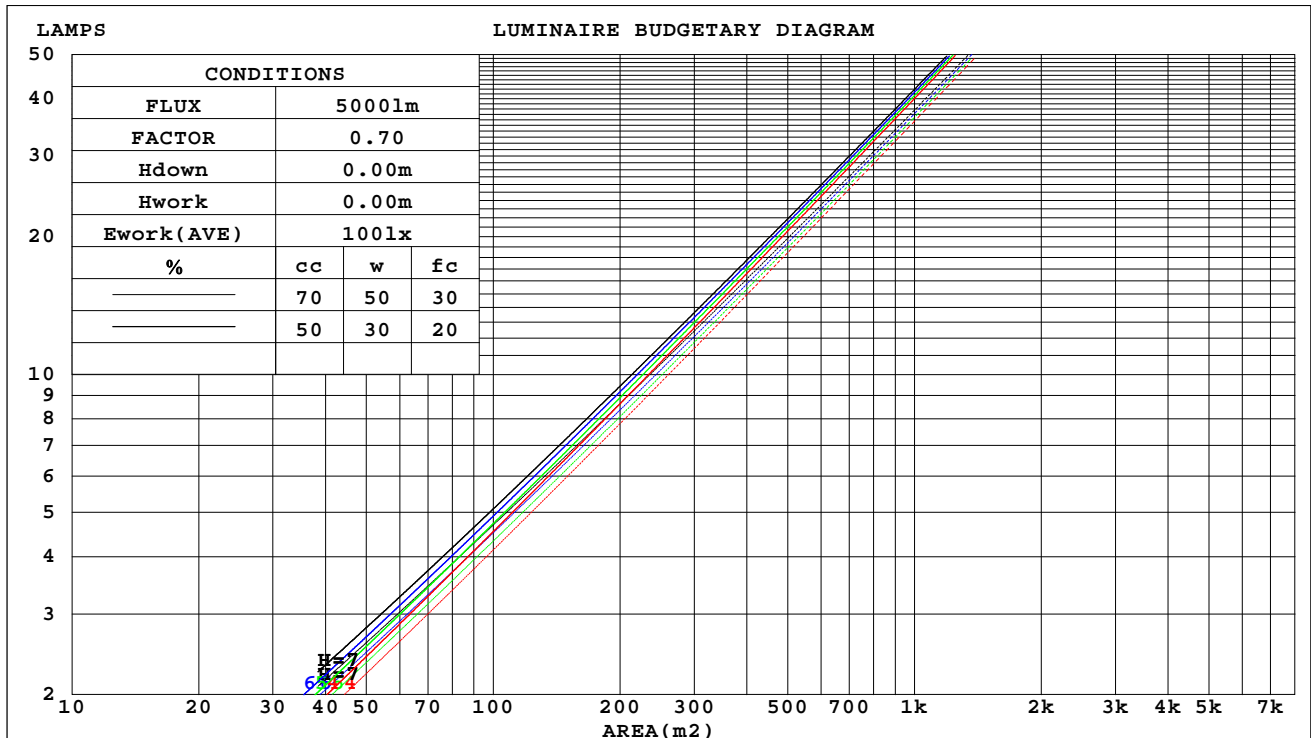
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 23120111406
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 Coefficients of Utilization(CU)															
0.0	.82	.82	.82	.80	.80	.80	.77	.77	.77	.73	.73	.73	.70	.70	.70	.69
1.0	.78	.76	.75	.76	.75	.74	.74	.73	.72	.71	.70	.70	.69	.68	.68	.66
2.0	.74	.72	.70	.73	.71	.69	.71	.69	.68	.69	.68	.66	.67	.66	.65	.64
3.0	.71	.68	.66	.70	.68	.66	.68	.66	.65	.67	.65	.64	.65	.64	.63	.62
4.0	.68	.65	.63	.67	.65	.63	.66	.64	.62	.64	.63	.61	.63	.62	.60	.60
5.0	.65	.62	.60	.65	.62	.60	.63	.61	.59	.62	.60	.59	.61	.60	.58	.58
6.0	.63	.60	.58	.62	.60	.58	.61	.59	.57	.61	.58	.57	.60	.58	.56	.56
7.0	.61	.58	.56	.60	.57	.55	.59	.57	.55	.59	.57	.55	.58	.56	.55	.54
8.0	.59	.56	.54	.58	.55	.54	.58	.55	.53	.57	.55	.53	.56	.54	.53	.52
9.0	.57	.54	.52	.56	.54	.52	.56	.53	.52	.55	.53	.51	.55	.53	.51	.51
10.0	.55	.52	.50	.55	.52	.50	.54	.52	.50	.54	.52	.50	.53	.51	.50	.49



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          30minutes warm-up

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WEC AND CCEC

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NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011406
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	.096	.055	.017	.092	.052	.017	.083	.048	.015	.075	.043	.014	.068	.039	.013		
2.0	.089	.049	.015	.086	.047	.015	.079	.044	.014	.072	.040	.013	.066	.037	.012		
3.0	.083	.044	.013	.080	.043	.013	.074	.040	.012	.069	.038	.012	.064	.035	.011		
4.0	.078	.041	.012	.076	.040	.012	.071	.038	.011	.066	.036	.011	.062	.034	.010		
5.0	.074	.038	.011	.072	.037	.011	.068	.035	.010	.064	.034	.010	.060	.032	.010		
6.0	.070	.035	.010	.068	.035	.010	.065	.033	.010	.061	.032	.009	.058	.031	.009		
7.0	.067	.033	.009	.065	.033	.009	.062	.031	.009	.059	.030	.009	.056	.029	.009		
8.0	.064	.031	.009	.063	.031	.009	.060	.030	.009	.057	.029	.008	.055	.028	.008		
9.0	.061	.030	.008	.060	.029	.008	.058	.028	.008	.055	.028	.008	.053	.027	.008		
10.0	.059	.028	.008	.058	.028	.008	.056	.027	.008	.053	.027	.008	.051	.026	.007		

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	.131	.131	.131	.112	.112	.112	.077	.077	.077	.044	.044	.044	.014	.014	.014	
1.0	.116	.109	.102	.099	.093	.088	.068	.064	.061	.039	.037	.035	.013	.012	.011	
2.0	.104	.091	.081	.089	.079	.070	.061	.054	.049	.035	.032	.029	.011	.010	.009	
3.0	.094	.078	.066	.080	.067	.057	.055	.047	.040	.032	.027	.024	.010	.009	.008	
4.0	.085	.068	.054	.073	.058	.047	.050	.041	.033	.029	.024	.020	.009	.008	.006	
5.0	.078	.059	.045	.067	.051	.039	.046	.036	.028	.027	.021	.016	.009	.007	.005	
6.0	.072	.052	.038	.062	.045	.033	.043	.032	.023	.025	.019	.014	.008	.006	.005	
7.0	.067	.047	.032	.058	.040	.028	.040	.028	.020	.023	.017	.012	.007	.005	.004	
8.0	.063	.042	.028	.054	.036	.024	.037	.026	.017	.022	.015	.010	.007	.005	.003	
9.0	.059	.038	.024	.051	.033	.021	.035	.023	.015	.020	.014	.009	.007	.005	.003	
10.0	.055	.035	.021	.048	.030	.019	.033	.021	.013	.019	.013	.008	.006	.004	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2312011406		
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	5.8	6.5	6.0	6.6	6.8	6.3	7.0	6.5	7.1	7.3
3H	5.7	6.3	5.9	6.5	6.7	6.1	6.8	6.4	6.9	7.1
4H	5.6	6.2	5.8	6.4	6.6	6.1	6.7	6.3	6.9	7.1
6H	5.5	6.1	5.8	6.3	6.5	6.0	6.5	6.3	6.8	7.0
8H	5.5	6.0	5.7	6.2	6.5	5.9	6.5	6.2	6.7	7.0
12H	5.4	5.9	5.7	6.2	6.5	5.9	6.4	6.2	6.7	6.9
4H 2H	5.6	6.2	5.8	6.4	6.6	6.1	6.7	6.3	6.9	7.1
3H	5.4	5.9	5.7	6.2	6.5	5.9	6.4	6.2	6.7	6.9
4H	5.3	5.8	5.7	6.1	6.4	5.8	6.3	6.1	6.6	6.9
6H	5.2	5.6	5.6	6.0	6.3	5.7	6.1	6.1	6.4	6.8
8H	5.2	5.6	5.5	5.9	6.3	5.6	6.0	6.0	6.4	6.7
12H	5.1	5.5	5.5	5.8	6.2	5.6	5.9	6.0	6.3	6.7
8H 4H	5.2	5.6	5.5	5.9	6.3	5.6	6.0	6.0	6.4	6.7
6H	5.0	5.4	5.5	5.8	6.2	5.5	5.9	5.9	6.2	6.7
8H	5.0	5.3	5.4	5.7	6.1	5.5	5.8	5.9	6.2	6.6
12H	4.9	5.2	5.4	5.6	6.1	5.4	5.7	5.9	6.1	6.6
12H 4H	5.1	5.5	5.5	5.8	6.2	5.6	5.9	6.0	6.3	6.7
6H	5.0	5.3	5.4	5.7	6.1	5.5	5.8	5.9	6.2	6.6
8H	4.9	5.2	5.4	5.6	6.1	5.4	5.7	5.9	6.1	6.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.2 / -13.4					+ 3.6 / -14.0				
1.5H	+ 5.4 / - 7.4					+ 5.9 / - 8.0				
2.0H	+ 5.6 / -12.3					+ 6.0 / -13.8				

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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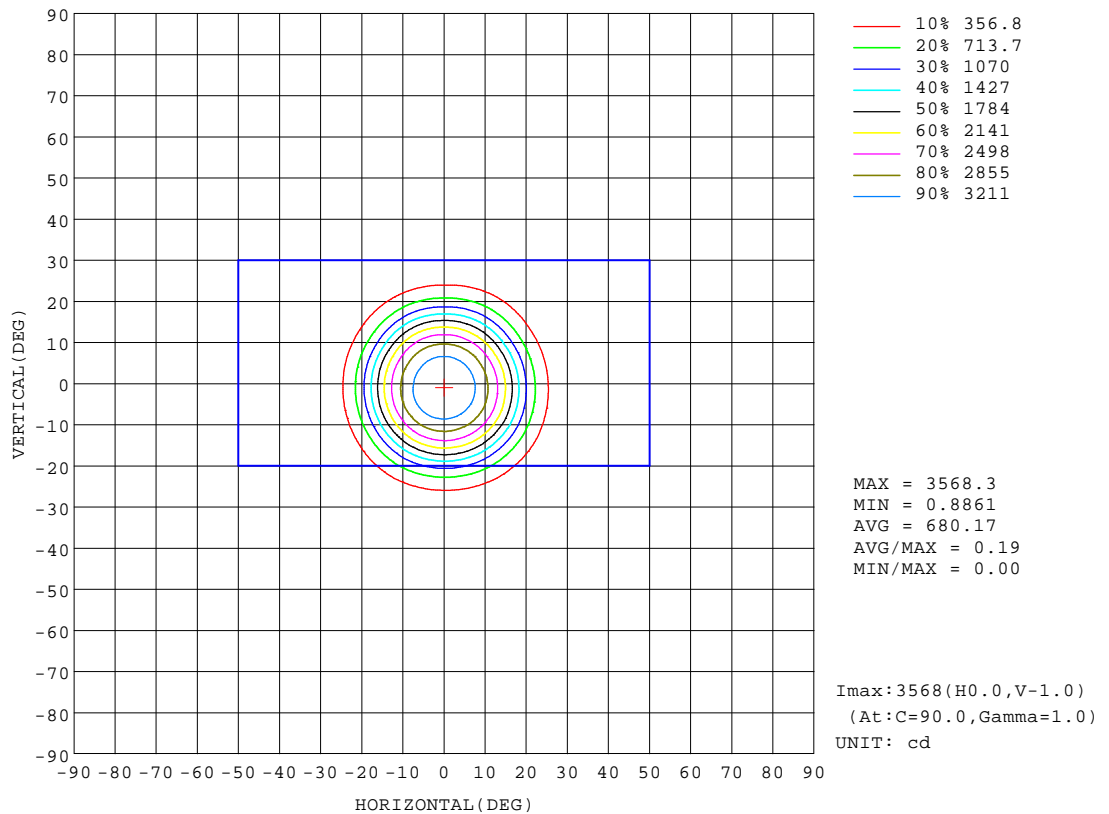
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	59	57	62	59	56	62	59	56	54
0.80	68	64	62	67	64	62	66	63	61	59
1.00	70	67	65	70	66	64	69	66	64	62
1.25	73	69	67	72	69	67	71	68	66	64
1.50	74	71	69	73	71	69	72	70	68	65
2.00	76	73	71	75	72	71	73	71	70	66
2.50	77	74	73	76	74	72	74	72	71	67
3.00	78	76	74	76	75	73	74	73	72	67
4.00	79	77	76	78	76	75	75	74	73	68
5.00	80	78	77	78	77	76	76	75	74	69
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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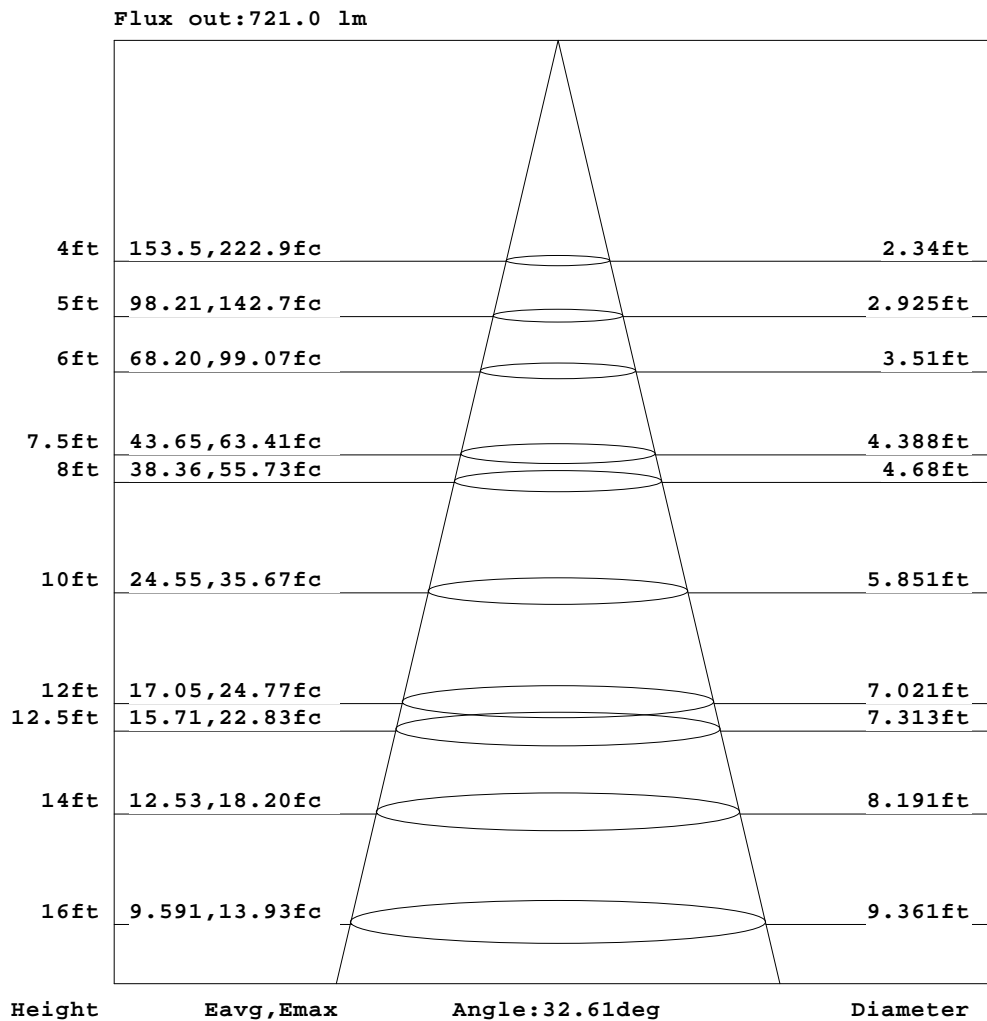


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LENS: PM-1082A 24R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

AAI Figure

Test:U:120.12V I:0.1331A P:15.877W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011406
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



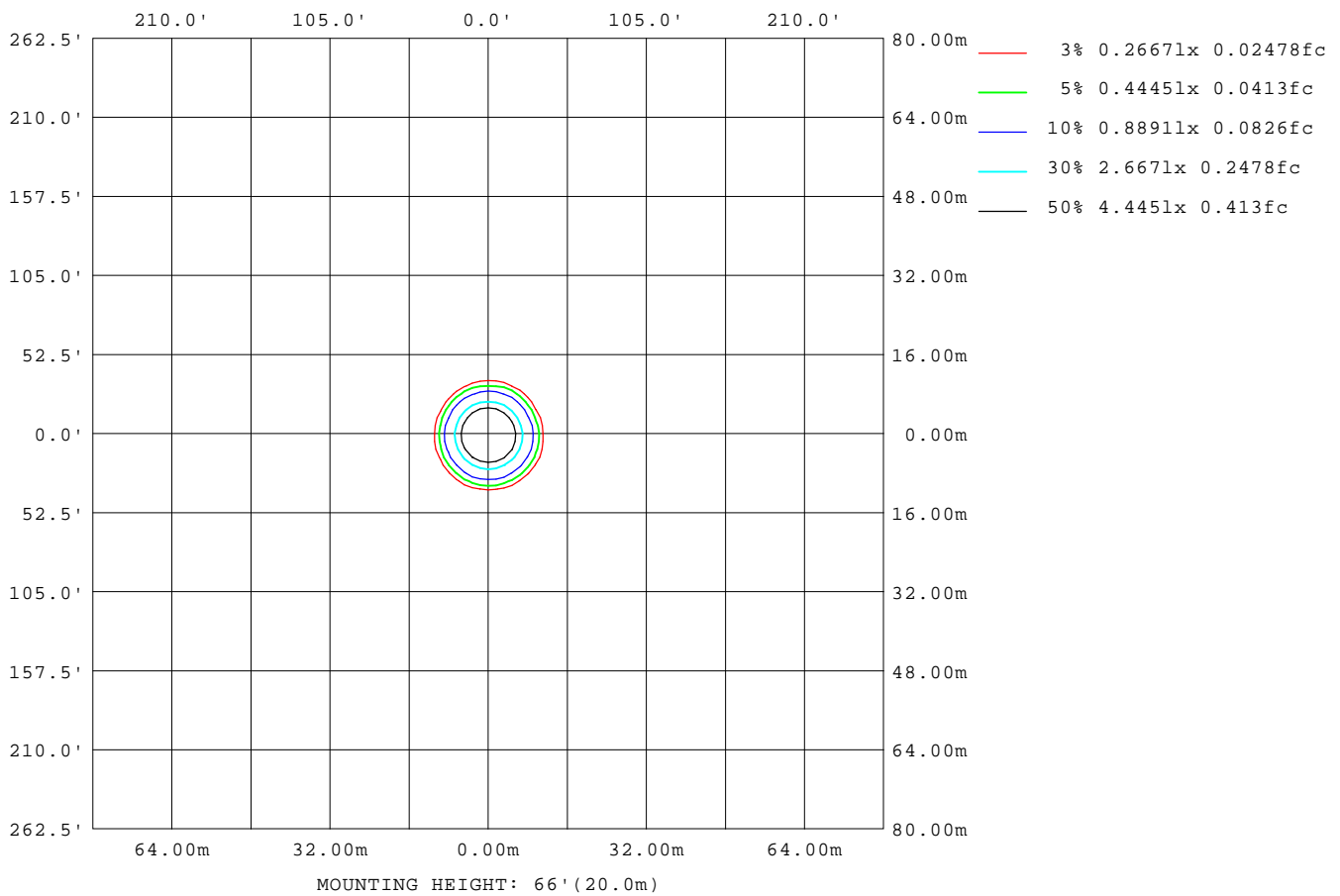
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-1082A 24R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.12V I:0.1331A P:15.877W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011406
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-1082A 24R
DRIVER:PUP20A-1WMC 400mA
30minutes warm-up

LED Avg.L Report

Test:U:120.12V I:0.1331A P:15.877W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011406
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

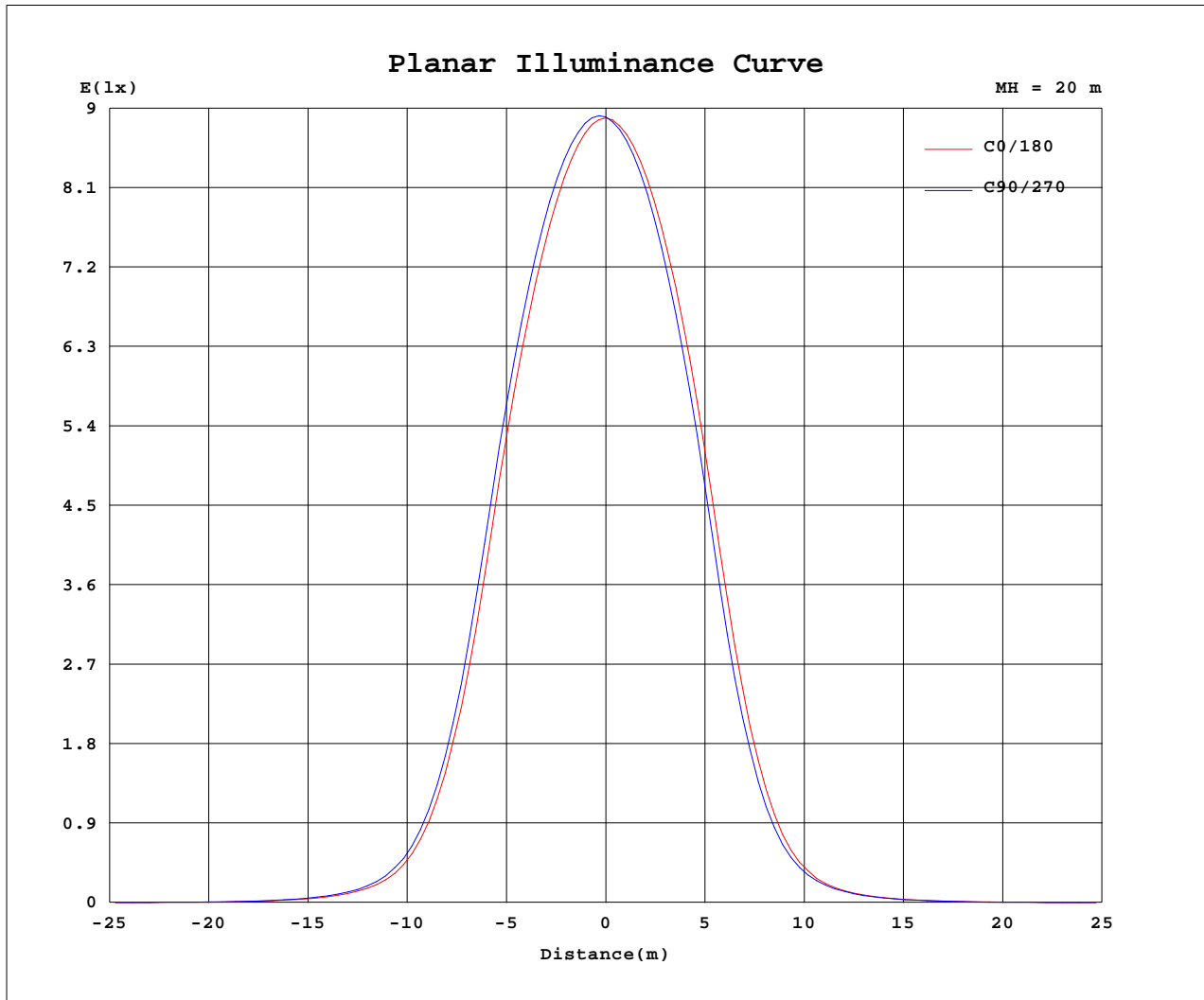
AvgL	cd/m2
L_0~180(65)av	108
L_0~180(75)av	69
L_0~180(85)av	129
L_90~270(65)av	101
L_90~270(75)av	59
L_90~270(85)av	112
L_45(65)av	108
L_45(75)av	54
L_45(85)av	70

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-1082A 24R
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-1082A 24R
 DRIVER: PUP20A-1WMC 400mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.1331A P:15.877W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011406
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC) (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3560	3560	3560	3560	3560	3560	3560	3560	3560	3560	3560	3560						
5	3407	3440	3459	3475	3470	3446	3402	3366	3353	3345	3349	3369						
10	2944	3018	3054	3069	3053	2996	2922	2850	2820	2792	2815	2855						
15	2128	2254	2296	2289	2259	2150	2036	1932	1896	1850	1909	1978						
20	1069	1190	1215	1197	1168	1049	963	886	862	834	898	932						
25	386	451	463	445	432	364	320	289	287	276	314	321						
30	126	153	155	147	142	119	104	100	100	97.1	108	108						
35	49.0	58.7	59.2	56.5	53.9	46.2	41.1	39.9	39.4	38.4	42.0	42.5						
40	20.7	23.9	23.8	22.6	21.7	19.2	16.9	16.2	16.1	15.6	17.2	18.0						
45	7.59	8.78	8.90	8.16	7.89	6.99	5.98	5.58	5.43	5.29	5.97	6.51						
50	3.77	4.10	4.09	3.74	3.78	3.62	3.23	2.95	2.92	3.03	3.31	3.47						
55	1.96	2.24	2.17	2.01	1.89	1.72	1.54	1.26	1.31	1.47	1.74	1.78						
60	0.27	0.29	0.24	0.20	0.16	0.14	0.14	0.18	0.20	0.20	0.21	0.22						
65	0.21	0.20	0.16	0.13	0.12	0.12	0.13	0.17	0.19	0.19	0.19	0.20						
70	0.16	0.15	0.13	0.12	0.11	0.11	0.11	0.11	0.12	0.13	0.13	0.14						
75	0.08	0.07	0.06	0.06	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05						
80	0.05	0.04	0.04	0.04	0.04	0.03	0.05	0.04	0.03	0.04	0.03	0.03						
85	0.05	0.03	0.03	0.04	0.02	0.02	0.04	0.03	0.02	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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