

Luminaire Photograph



Light Output Ratio:	77.3%	
Luminaire Power:	20.98 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: 2024-7-26

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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

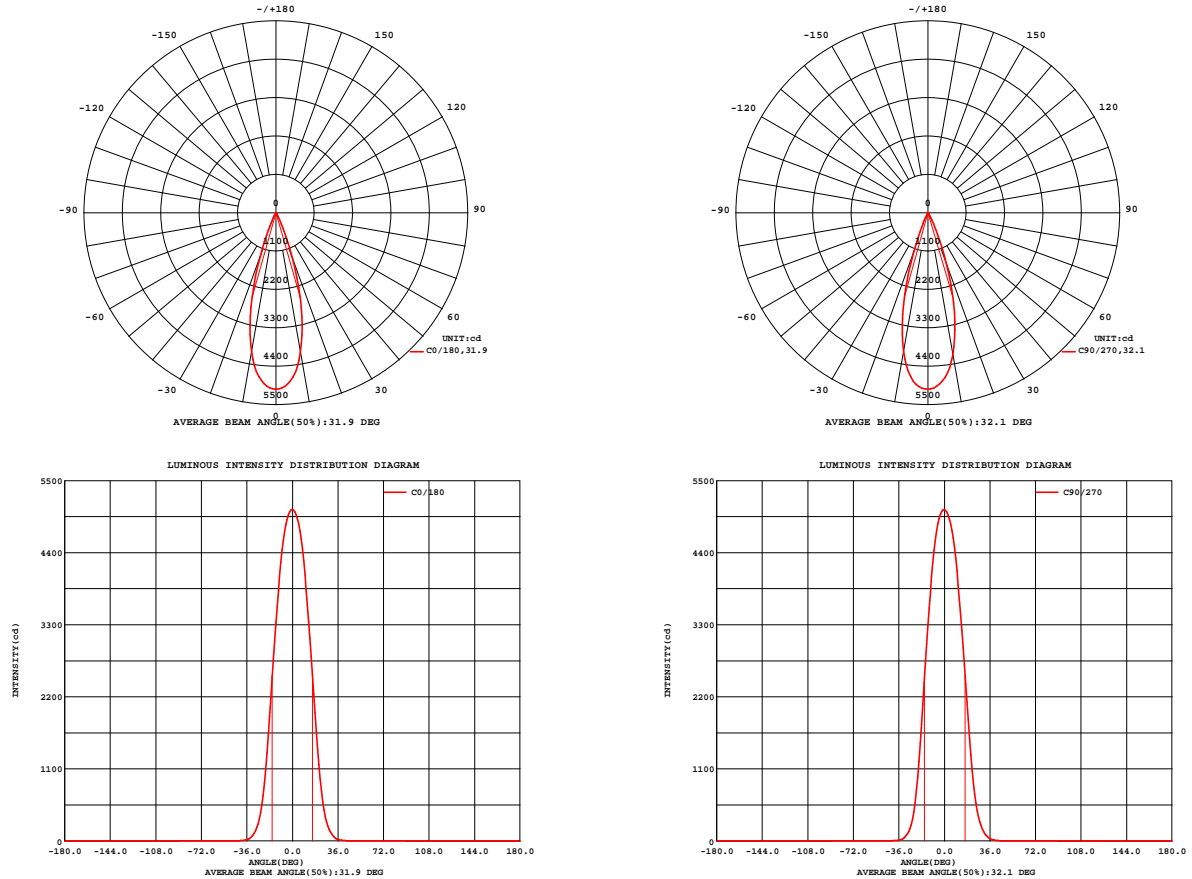


Fig. C0/C180

Fig. C90/C270

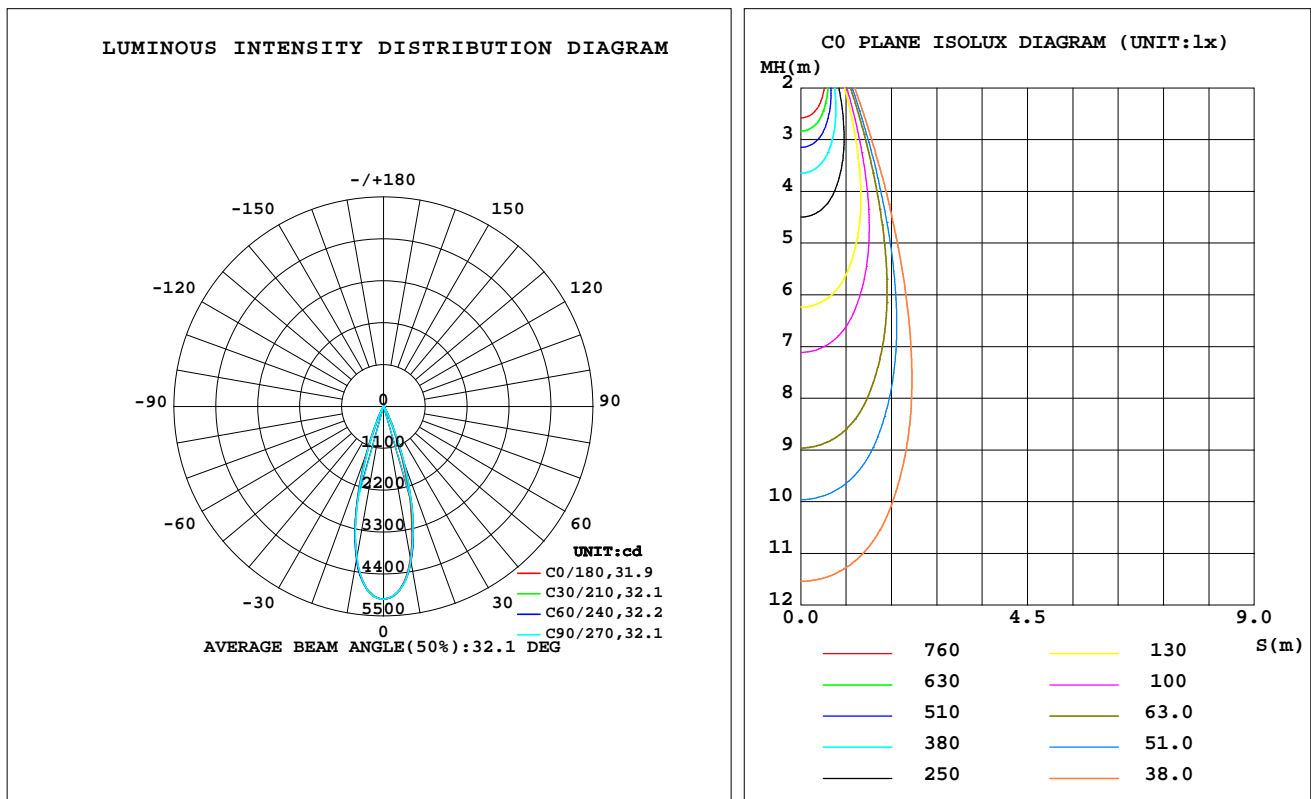
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-26

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-1083A 24R
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.06V I:0.1757A P:20.981W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260948
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.91 lm/W			
MODEL	Bridgelux	Imax(cd)	5057	S/MH(C0/180)	0.50
NOMINAL POWER(W)	20	LOR(%)	77.3	S/MH(C90/270)	0.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1466.8	UP,DN(C0-180)	0.0,40.4
NOMINAL FLUX(lm)	1897.7	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,36.9
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	down(%)	77.3	CIBSE SHR MAX	0.50



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ZONAL FLUX DIAGRAM

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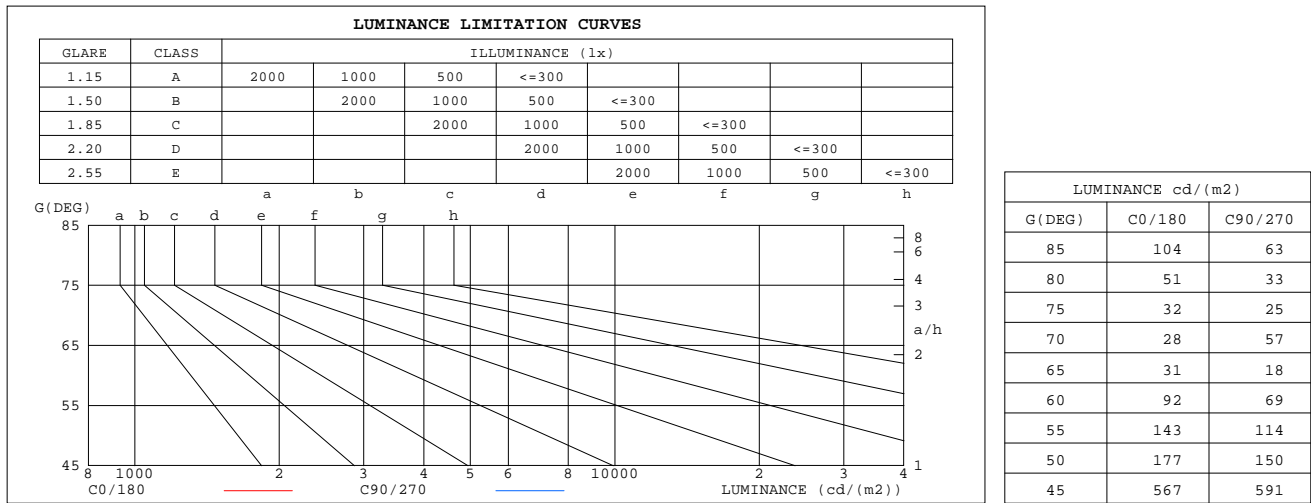
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	4063	4145	4124	4102	4043	4088	4032	4103	0- 10	438.3	438.3	29.9,23.1
20	1409	1564	1572	1479	1339	1237	1213	1323	10- 20	750.6	1189	81.1,62.6
30	139.4	185.9	181.3	155.6	119.3	95.39	86.09	116.3	20- 30	244.8	1434	97.7,75.6
40	9.607	15.09	11.86	11.56	6.872	6.271	5.005	7.925	30- 40	29.90	1464	99.8,77.1
50	0.7262	0.9224	0.6156	0.8532	0.6247	0.4820	0.2249	0.5943	40- 50	2.660	1466	100,77.3
60	0.2950	0.2773	0.2204	0.2729	0.2676	0.1698	0.1505	0.1852	50- 60	0.3429	1467	100,77.3
70	0.0623	0.0380	0.1239	0.0340	0.0598	0.0433	0.0329	0.0399	60- 70	0.1016	1467	100,77.3
80	0.0567	0.0579	0.0363	0.0322	0.0570	0.0279	0.0310	0.0230	70- 80	0.0411	1467	100,77.3
90	0	0	0	0	0	0	0	0	80- 90	0.0336	1467	100,77.3
100	0	0	0	0	0	0	0	0	90-100	0	1467	100,77.3
110	0	0	0	0	0	0	0	0	100-110	0	1467	100,77.3
120	0	0	0	0	0	0	0	0	110-120	0	1467	100,77.3
130	0	0	0	0	0	0	0	0	120-130	0	1467	100,77.3
140	0	0	0	0	0	0	0	0	130-140	0	1467	100,77.3
150	0	0	0	0	0	0	0	0	140-150	0	1467	100,77.3
160	0	0	0	0	0	0	0	0	150-160	0	1467	100,77.3
170	0	0	0	0	0	0	0	0	160-170	0	1467	100,77.3
180	0	0	0	0	0	0	0	0	170-180	0	1467	100,77.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.06V I:0.1757A P:20.981W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260948
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:



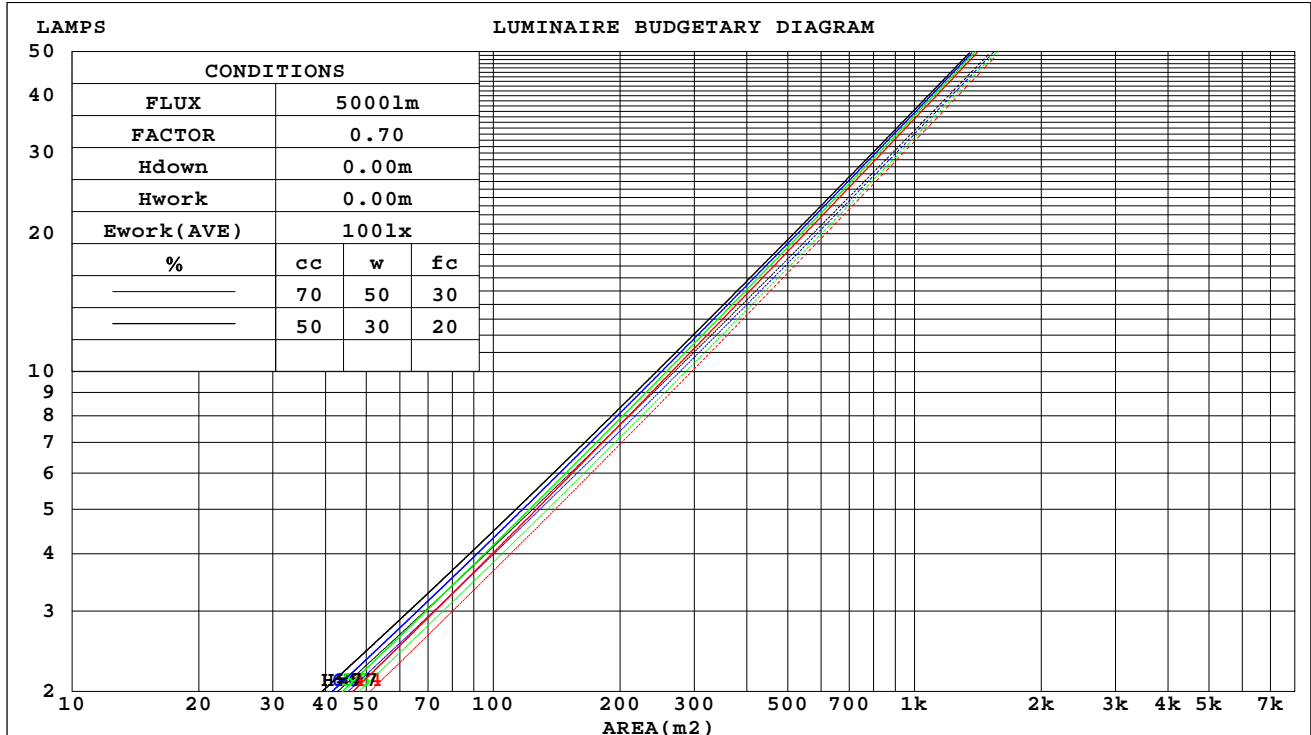
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.92	.92	.92	.90	.90	.90	.86	.86	.86	.82	.82	.82	.79	.79	.79	.77
1.0	.87	.86	.84	.86	.84	.83	.83	.82	.81	.80	.79	.78	.77	.77	.76	.75
2.0	.83	.81	.79	.82	.80	.78	.79	.78	.76	.77	.76	.75	.75	.74	.73	.72
3.0	.80	.77	.75	.79	.76	.74	.77	.75	.73	.75	.73	.72	.73	.72	.71	.70
4.0	.76	.73	.71	.76	.73	.71	.74	.72	.70	.73	.71	.69	.71	.70	.68	.67
5.0	.74	.70	.68	.73	.70	.68	.72	.69	.67	.71	.68	.67	.69	.68	.66	.65
6.0	.71	.68	.65	.71	.67	.65	.69	.67	.65	.69	.66	.64	.68	.66	.64	.63
7.0	.69	.65	.63	.68	.65	.63	.67	.65	.63	.67	.64	.62	.66	.64	.62	.61
8.0	.66	.63	.61	.66	.63	.61	.65	.63	.61	.65	.62	.60	.64	.62	.60	.59
9.0	.64	.61	.59	.64	.61	.59	.64	.61	.59	.63	.60	.59	.62	.60	.59	.58
10.0	.63	.59	.57	.62	.59	.57	.62	.59	.57	.61	.59	.57	.61	.59	.57	.56



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30minutes warm-up



WEC AND CCEC

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NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260948
MFR.: RISE	SUR.: 0.0064m2	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	.106	.060	.019	.101	.058	.018	.091	.052	.017	.082	.048	.015	.074	.043	.014		
2.0	.098	.054	.016	.094	.052	.016	.086	.048	.015	.079	.044	.014	.072	.041	.013		
3.0	.092	.049	.015	.088	.047	.014	.081	.044	.013	.075	.041	.013	.070	.039	.012		
4.0	.086	.045	.013	.083	.043	.013	.077	.041	.012	.072	.039	.012	.067	.037	.011		
5.0	.081	.041	.012	.079	.040	.012	.074	.038	.011	.069	.037	.011	.065	.035	.010		
6.0	.077	.039	.011	.075	.038	.011	.071	.036	.011	.067	.035	.010	.063	.033	.010		
7.0	.073	.036	.010	.071	.036	.010	.068	.034	.010	.064	.033	.010	.061	.032	.009		
8.0	.070	.034	.010	.068	.034	.010	.065	.033	.009	.062	.032	.009	.059	.031	.009		
9.0	.067	.032	.009	.066	.032	.009	.063	.031	.009	.060	.030	.009	.058	.029	.008		
10.0	.064	.031	.009	.063	.030	.008	.061	.030	.008	.058	.029	.008	.056	.028	.008		

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	.147	.147	.147	.126	.126	.126	.086	.086	.086	.049	.049	.049	.016	.016	.016	
1.0	.130	.122	.114	.111	.105	.098	.076	.072	.068	.044	.042	.040	.014	.013	.013	
2.0	.116	.103	.091	.099	.088	.079	.068	.061	.055	.039	.036	.032	.013	.011	.011	
3.0	.105	.088	.074	.090	.076	.064	.062	.052	.045	.036	.031	.027	.011	.010	.009	
4.0	.095	.076	.061	.081	.065	.053	.056	.046	.037	.032	.027	.022	.010	.009	.007	
5.0	.087	.066	.051	.075	.057	.044	.051	.040	.031	.030	.023	.019	.010	.008	.006	
6.0	.080	.058	.043	.069	.051	.037	.047	.035	.026	.028	.021	.016	.009	.007	.005	
7.0	.074	.052	.037	.064	.045	.032	.044	.032	.023	.026	.019	.013	.008	.006	.004	
8.0	.069	.047	.032	.060	.041	.028	.041	.029	.020	.024	.017	.012	.008	.006	.004	
9.0	.065	.043	.027	.056	.037	.024	.039	.026	.017	.023	.015	.010	.007	.005	.003	
10.0	.061	.039	.024	.053	.034	.021	.037	.024	.015	.021	.014	.009	.007	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2407260948		
MFR.: RISE					SUR.: 0.0064m2			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	1.7	2.4	1.9	2.5	2.7	2.8	3.4	3.0	3.6	3.7
3H	1.6	2.2	1.8	2.4	2.5	2.6	3.2	2.9	3.4	3.6
4H	1.5	2.1	1.7	2.3	2.5	2.6	3.1	2.8	3.3	3.5
6H	1.4	1.9	1.7	2.2	2.4	2.5	3.0	2.7	3.2	3.5
8H	1.4	1.9	1.6	2.1	2.4	2.4	3.0	2.7	3.2	3.4
12H	1.3	1.8	1.6	2.1	2.3	2.4	2.9	2.7	3.1	3.4
4H 2H	1.5	2.1	1.7	2.3	2.5	2.6	3.1	2.8	3.3	3.5
3H	1.3	1.8	1.6	2.1	2.3	2.4	2.9	2.7	3.1	3.4
4H	1.2	1.7	1.6	2.0	2.3	2.3	2.8	2.6	3.0	3.3
6H	1.1	1.5	1.5	1.9	2.2	2.2	2.6	2.6	2.9	3.3
8H	1.1	1.4	1.4	1.8	2.2	2.1	2.5	2.5	2.9	3.2
12H	1.0	1.4	1.4	1.7	2.1	2.1	2.4	2.5	2.8	3.2
8H 4H	1.1	1.4	1.4	1.8	2.2	2.1	2.5	2.5	2.9	3.2
6H	0.9	1.3	1.4	1.7	2.1	2.0	2.3	2.4	2.7	3.1
8H	0.9	1.2	1.3	1.6	2.0	2.0	2.2	2.4	2.7	3.1
12H	0.8	1.1	1.3	1.5	2.0	1.9	2.1	2.4	2.6	3.0
12H 4H	1.0	1.4	1.4	1.7	2.1	2.1	2.4	2.5	2.8	3.2
6H	0.9	1.2	1.3	1.6	2.0	2.0	2.2	2.4	2.7	3.1
8H	0.8	1.1	1.3	1.5	2.0	1.9	2.1	2.4	2.6	3.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.2 / -14.6					+ 3.7 / -16.6				
1.5H	+ 5.8 / -13.4					+ 6.4 / -15.1				
2.0H	+ 6.3 / - 5.7					+ 6.8 / - 7.5				

CIE Pub.117, 1898 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.2)
Area: 0.0064 m2

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UTILIZATION FACTORS TABLE

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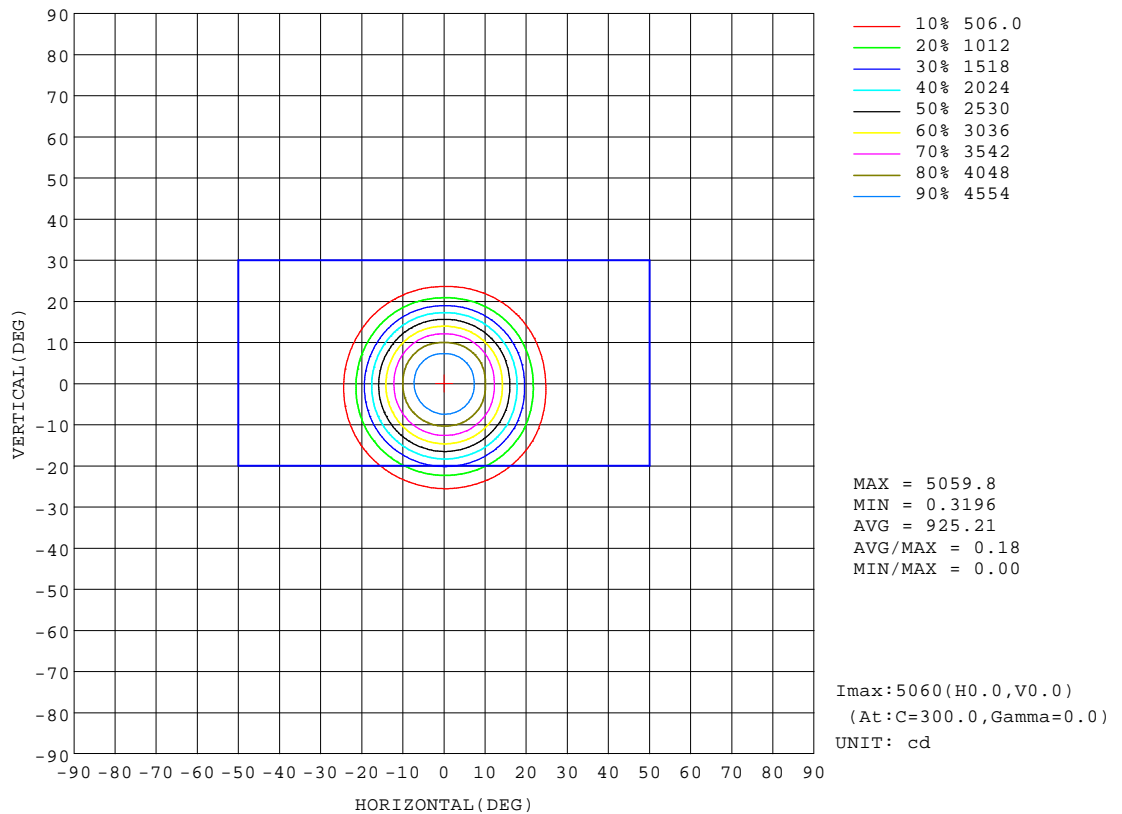
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	66	64	70	66	64	70	66	64	61
0.80	76	72	70	76	72	69	75	71	69	67
1.00	79	75	73	78	75	72	77	74	72	69
1.25	82	78	76	81	78	75	79	77	75	72
1.50	83	80	78	82	80	78	81	78	77	74
2.00	85	82	80	84	81	79	82	80	78	74
2.50	86	84	81	85	83	81	83	81	79	75
3.00	87	85	83	86	84	82	83	82	80	76
4.00	89	87	85	87	85	84	84	83	82	77
5.00	89	88	87	88	87	86	85	84	83	77
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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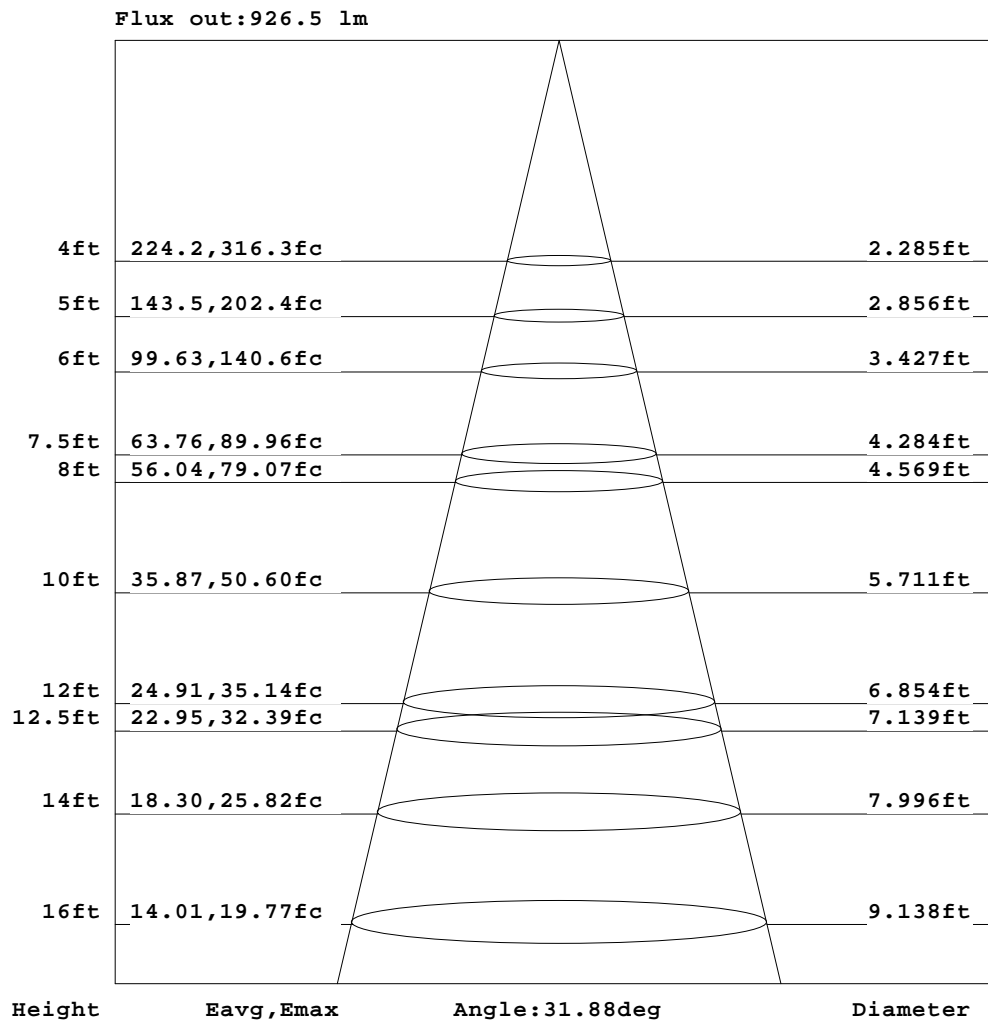


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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2407260948
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:



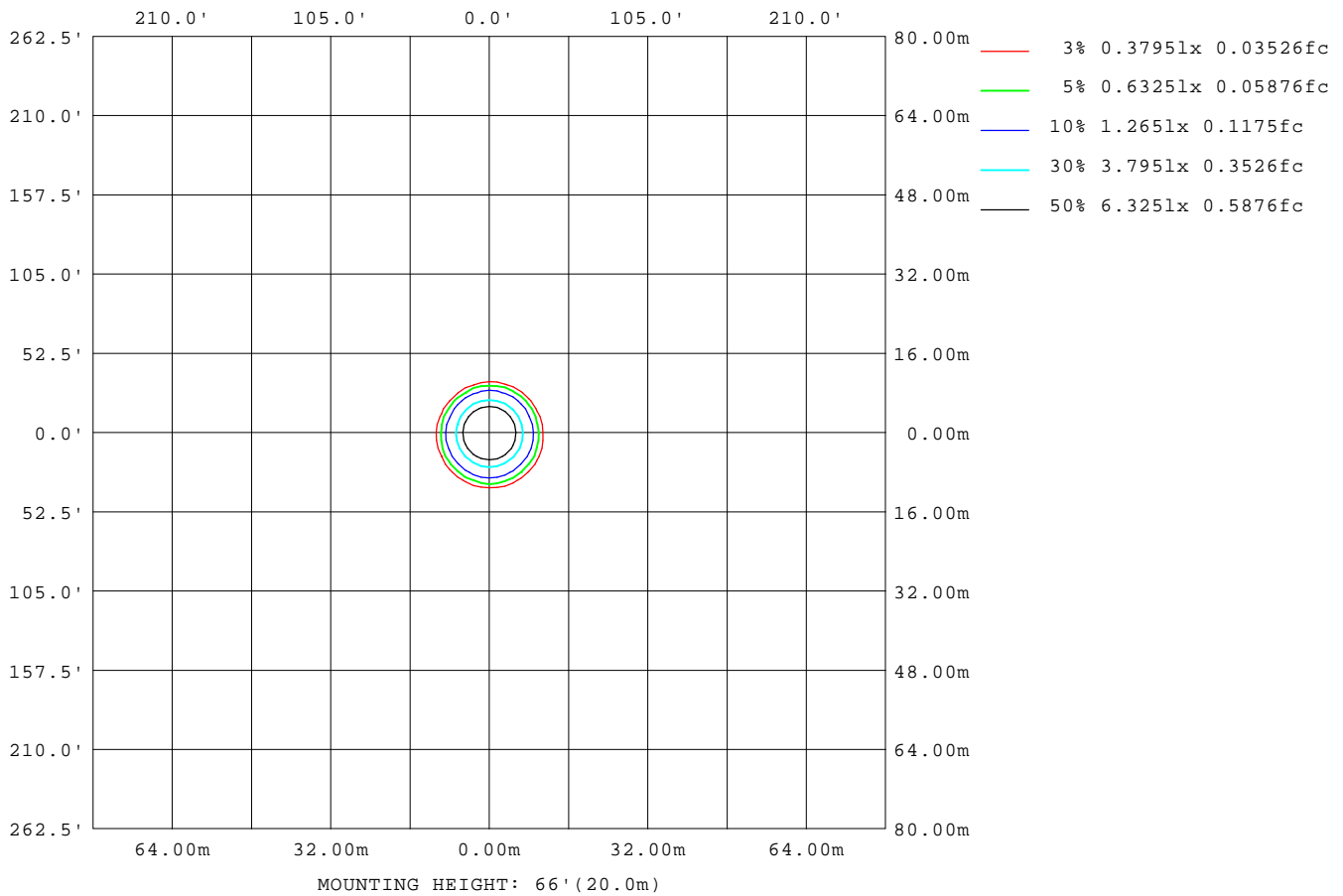
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-26

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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.06V I:0.1757A P:20.981W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260948
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-26

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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LED Avg.L Report

Test:U:120.06V I:0.1757A P:20.981W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260948
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

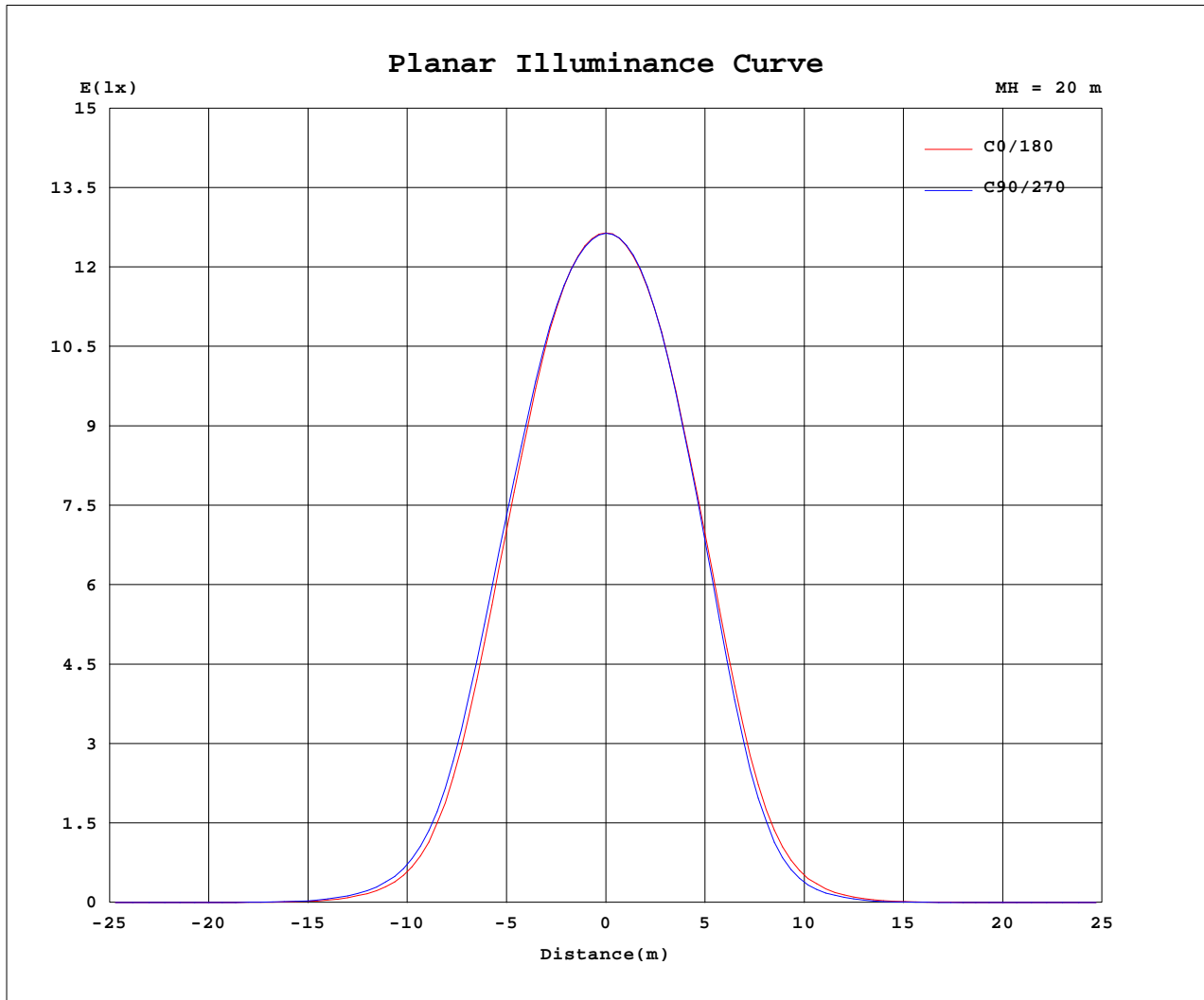
AvgL	cd/m2
L_0~180(65)av	30
L_0~180(75)av	31
L_0~180(85)av	100
L_90~270(65)av	24
L_90~270(75)av	22
L_90~270(85)av	61
L_45(65)av	33
L_45(75)av	21
L_45(85)av	37

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-26

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-1083A 24R
DRIVER: PUP20A-1WMC 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: 2024-7-26

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-1083A 24R
 DRIVER: PUP20A-1WMC 500mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.06V I:0.1757A P:20.981W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.121-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407260948
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5057	5057	5057	5057	5057	5057	5057	5057	5057	5057	5057	5057						
5	4837	4839	4836	4838	4824	4823	4830	4830	4843	4843	4844	4843						
10	4063	4138	4151	4124	4113	4092	4043	4086	4090	4032	4095	4112						
15	2816	2922	2962	2954	2913	2847	2783	2735	2733	2714	2765	2806						
20	1409	1552	1576	1572	1512	1446	1339	1241	1232	1213	1285	1360						
25	474	561	577	573	530	491	431	369	340	337	387	431						
30	139	184	188	181	164	147	119	101	89.8	86.1	108	125						
35	34.0	58.2	60.9	50.7	51.0	44.4	27.1	29.6	24.8	15.7	31.1	35.9						
40	9.61	14.7	15.5	11.9	12.4	10.7	6.87	6.80	5.74	5.01	7.27	8.58						
45	2.57	4.68	4.56	2.68	3.70	3.36	1.96	2.09	2.00	1.33	2.52	2.59						
50	0.73	1.10	0.74	0.62	0.77	0.94	0.62	0.67	0.29	0.22	0.38	0.80						
55	0.52	0.46	0.42	0.42	0.41	0.46	0.48	0.29	0.20	0.19	0.21	0.34						
60	0.29	0.31	0.24	0.22	0.23	0.31	0.27	0.20	0.14	0.15	0.13	0.24						
65	0.08	0.12	0.06	0.05	0.05	0.11	0.08	0.09	0.09	0.08	0.09	0.09						
70	0.06	0.04	0.04	0.12	0.03	0.04	0.06	0.06	0.03	0.03	0.03	0.05						
75	0.05	0.04	0.06	0.04	0.04	0.03	0.05	0.03	0.03	0.03	0.02	0.03						
80	0.06	0.04	0.08	0.04	0.04	0.02	0.06	0.03	0.03	0.03	0.02	0.03						
85	0.06	0.05	0.03	0.04	0.02	0.02	0.05	0.02	0.02	0.03	0.01	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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