

Luminaire Photograph



Light Output Ratio:	86.1%	
Luminaire Power:	11.1 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: 2023-8-4

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: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

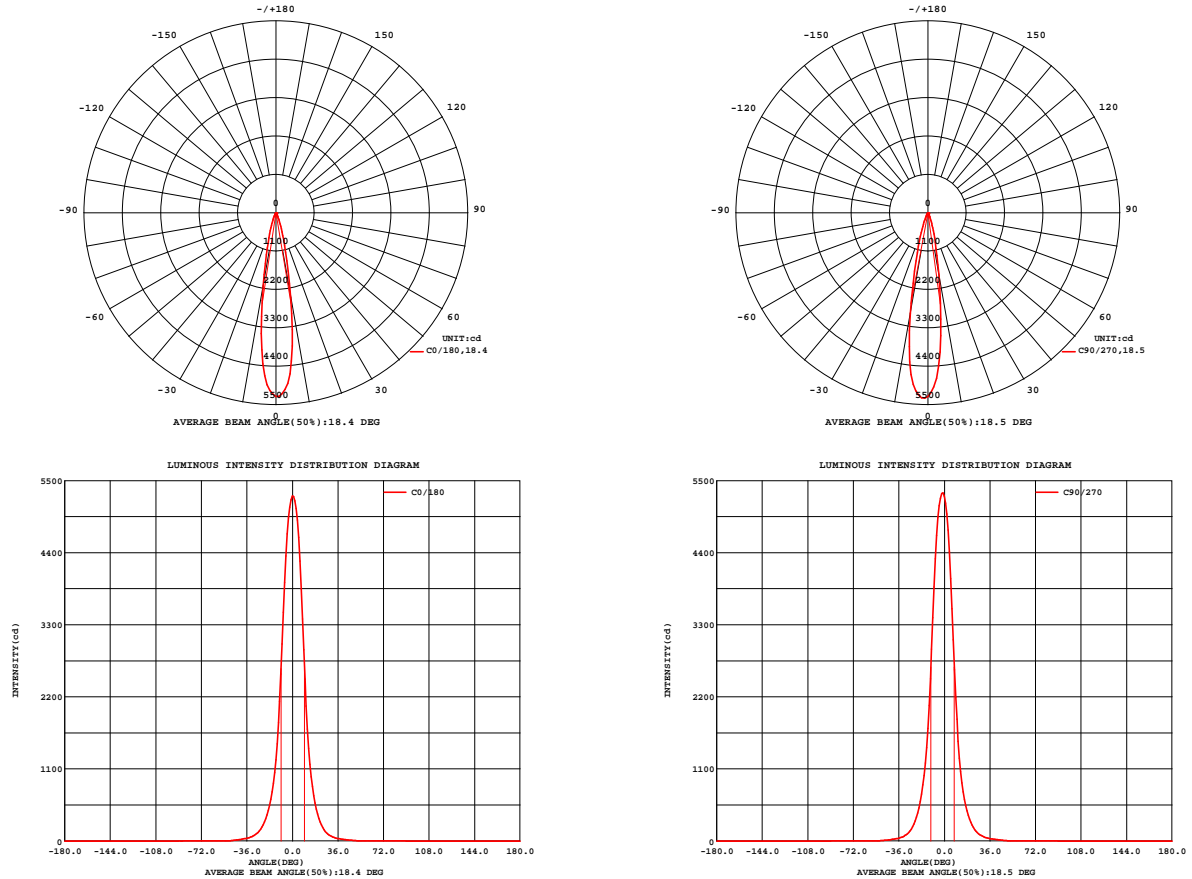


Fig. C0/C180

Fig. C90/C270

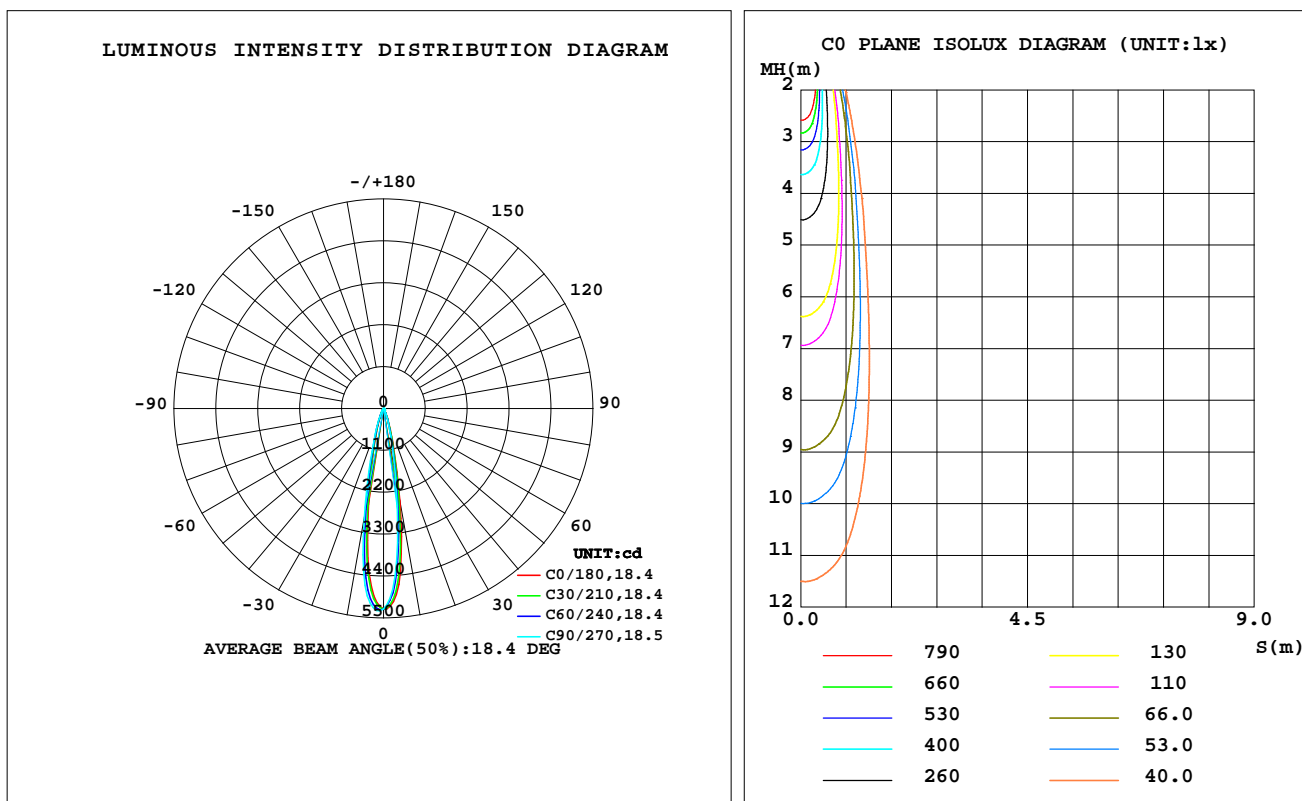
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040972
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.53 lm/W			
MODEL	CREE	I _{max} (cd)	5318	S/MH(C0/180)	0.31
NOMINAL POWER(W)	11	LOR(%)	86.1	S/MH(C90/270)	0.35
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	771.64	η UP,DN(C0-180)	0.0,39.1
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,46.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	86.1	CIBSE SHR MAX	0.30



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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	2467	2134	1857	1910	2134	2485	2930	2812	0- 10	353.9	353.9	45.9,39.5
20	411.0	368.3	335.0	353.7	396.0	449.8	507.1	470.9	10- 20	282.2	636.2	82.4,70.9
30	79.37	74.04	73.70	79.28	86.05	89.73	95.23	89.78	20- 30	88.75	724.9	93.9,80.8
40	26.04	24.77	24.63	26.86	27.04	28.41	27.71	27.85	30- 40	29.52	754.4	97.8,84.1
50	5.369	7.994	4.316	7.089	3.644	8.273	4.965	9.275	40- 50	12.07	766.5	99.3,85.5
60	2.140	2.348	2.007	2.049	1.761	2.056	1.994	2.222	50- 60	3.121	769.6	99.7,85.8
70	0.8054	0.9553	0.7340	0.7637	0.5688	0.6754	0.6118	0.8833	60- 70	1.417	771.1	99.9,86
80	0.3211	0.3525	0.3291	0.2877	0.2212	0.1956	0.1769	0.2457	70- 80	0.4624	771.5	100,86
90	0	0	0	0	0	0	0	0	80- 90	0.1187	771.6	100,86.1
100	0	0	0	0	0	0	0	0	90-100	0	771.6	100,86.1
110	0	0	0	0	0	0	0	0	100-110	0	771.6	100,86.1
120	0	0	0	0	0	0	0	0	110-120	0	771.6	100,86.1
130	0	0	0	0	0	0	0	0	120-130	0	771.6	100,86.1
140	0	0	0	0	0	0	0	0	130-140	0	771.6	100,86.1
150	0	0	0	0	0	0	0	0	140-150	0	771.6	100,86.1
160	0	0	0	0	0	0	0	0	150-160	0	771.6	100,86.1
170	0	0	0	0	0	0	0	0	160-170	0	771.6	100,86.1
180	0	0	0	0	0	0	0	0	170-180	0	771.6	100,86.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Operators:zoe
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Humidity:65.0%
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz
Lamp Flux:896.707x1 lm

NAME: 2214.411-1-ACOT-97

TYPE:

WEIGHT:

SPEC.: 3000K

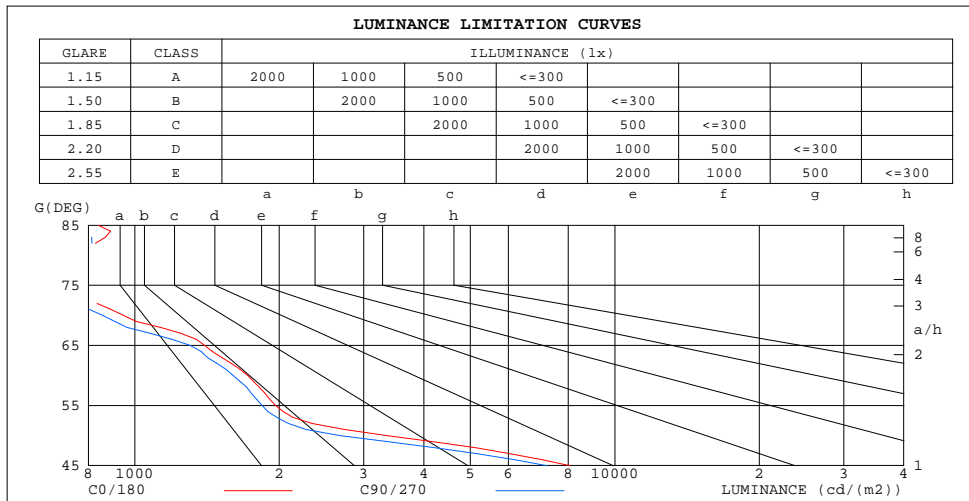
DIM.:

SERIAL No.: 2308040972

MFR.: RISE

SUR.: 0.0025m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	840	616
80	743	757
75	680	617
70	946	857
65	1398	1304
60	1720	1602
55	1964	1843
50	3357	2681
45	8076	7232

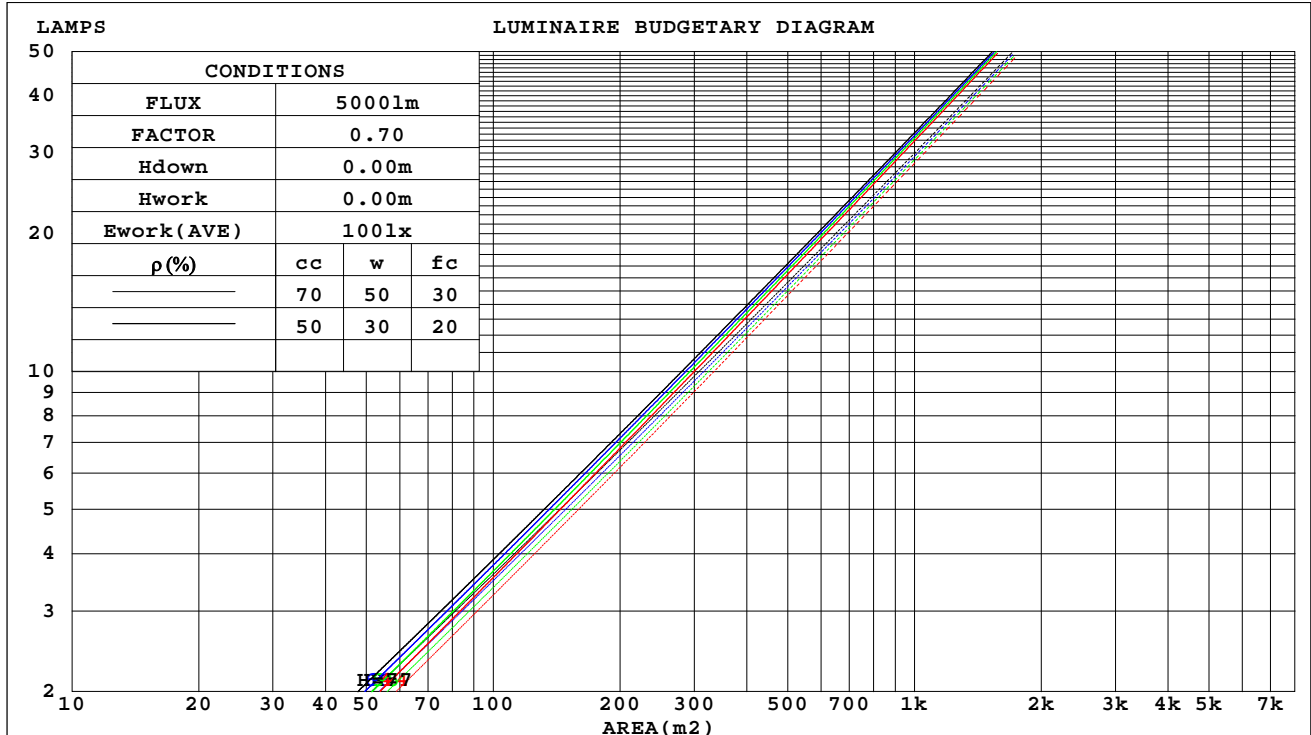
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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MFR.: RISE	SUR.: 0.0025m2	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						Coefficients of Utilization(CU)									
0.0	1.02	1.02	1.02	1.00	1.00	1.00	.96	.96	.96	.92	.92	.92	.88	.88	.88	.86
1.0	.97	.96	.94	.96	.94	.93	.92	.91	.90	.89	.88	.87	.86	.86	.85	.83
2.0	.93	.91	.89	.92	.89	.88	.89	.87	.86	.87	.85	.84	.84	.83	.82	.81
3.0	.89	.86	.84	.88	.86	.83	.86	.84	.82	.84	.82	.81	.82	.81	.80	.79
4.0	.86	.83	.81	.85	.82	.80	.84	.81	.79	.82	.80	.78	.81	.79	.78	.77
5.0	.83	.80	.78	.83	.80	.77	.81	.79	.77	.80	.78	.76	.79	.77	.75	.75
6.0	.81	.78	.75	.80	.77	.75	.79	.76	.74	.78	.76	.74	.77	.75	.73	.73
7.0	.79	.75	.73	.78	.75	.73	.77	.74	.72	.76	.74	.72	.76	.73	.72	.71
8.0	.77	.73	.71	.76	.73	.71	.75	.73	.71	.75	.72	.70	.74	.72	.70	.69
9.0	.75	.71	.69	.74	.71	.69	.74	.71	.69	.73	.71	.69	.72	.70	.69	.68
10.0	.73	.70	.68	.73	.70	.68	.72	.69	.67	.71	.69	.67	.71	.69	.67	.66



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WEC AND CCEC

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NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040972
MFR.: RISE	SUR.: 0.0025m2	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	.113	.064	.020	.107	.061	.019	.097	.055	.018	.087	.050	.016	.078	.045	.015	
2.0	.104	.057	.018	.100	.055	.017	.091	.051	.016	.083	.046	.015	.075	.043	.013	
3.0	.097	.052	.015	.093	.050	.015	.086	.046	.014	.079	.043	.013	.073	.040	.012	
4.0	.090	.047	.014	.087	.046	.013	.081	.043	.013	.075	.040	.012	.070	.038	.012	
5.0	.085	.043	.013	.082	.042	.012	.077	.040	.012	.072	.038	.011	.067	.036	.011	
6.0	.080	.040	.011	.078	.039	.011	.073	.037	.011	.069	.036	.011	.065	.034	.010	
7.0	.076	.037	.011	.074	.037	.010	.070	.035	.010	.066	.034	.010	.063	.033	.010	
8.0	.072	.035	.010	.070	.034	.010	.067	.033	.010	.063	.032	.009	.061	.031	.009	
9.0	.068	.033	.009	.067	.033	.009	.064	.032	.009	.061	.031	.009	.058	.030	.009	
10.0	.065	.031	.009	.064	.031	.009	.061	.030	.008	.059	.029	.008	.057	.028	.008	

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	.164	.164	.164	.140	.140	.140	.096	.096	.096	.055	.055	.055	.018	.018	.018		
1.0	.145	.136	.128	.124	.116	.110	.085	.080	.076	.049	.046	.044	.016	.015	.014		
2.0	.129	.114	.102	.110	.098	.088	.076	.068	.062	.044	.040	.036	.014	.013	.012		
3.0	.115	.097	.083	.099	.084	.072	.068	.058	.051	.039	.034	.030	.013	.011	.010		
4.0	.104	.084	.069	.090	.073	.060	.062	.051	.042	.036	.030	.025	.011	.010	.008		
5.0	.095	.073	.057	.082	.064	.050	.056	.044	.035	.033	.026	.021	.011	.009	.007		
6.0	.087	.065	.049	.075	.056	.042	.052	.039	.030	.030	.023	.018	.010	.008	.006		
7.0	.080	.058	.042	.069	.050	.036	.048	.035	.026	.028	.021	.015	.009	.007	.005		
8.0	.075	.052	.036	.064	.045	.031	.044	.031	.022	.026	.019	.013	.008	.006	.004		
9.0	.070	.047	.031	.060	.041	.027	.042	.029	.019	.024	.017	.012	.008	.006	.004		
10.0	.065	.043	.027	.056	.037	.024	.039	.026	.017	.023	.015	.010	.007	.005	.003		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308040972		
MFR.: RISE					SUR.: 0.0025m2			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	9.8	10.4	10.0	10.6	10.7	9.3	9.9	9.5	10.1	10.2
3H	9.8	10.3	10.0	10.5	10.7	9.3	9.9	9.5	10.0	10.2
4H	9.7	10.3	10.0	10.5	10.7	9.2	9.8	9.5	10.0	10.2
6H	9.7	10.2	10.0	10.4	10.7	9.2	9.7	9.5	9.9	10.2
8H	9.6	10.1	9.9	10.4	10.6	9.2	9.7	9.5	9.9	10.2
12H	9.6	10.1	9.9	10.4	10.6	9.1	9.6	9.4	9.9	10.1
4H 2H	9.7	10.2	9.9	10.4	10.6	9.2	9.8	9.5	10.0	10.2
3H	9.7	10.2	10.0	10.4	10.7	9.2	9.7	9.5	9.9	10.2
4H	9.6	10.1	10.0	10.4	10.7	9.2	9.6	9.5	9.9	10.2
6H	9.6	10.0	9.9	10.3	10.6	9.1	9.5	9.5	9.8	10.2
8H	9.6	9.9	9.9	10.3	10.6	9.1	9.5	9.5	9.8	10.2
12H	9.5	9.9	9.9	10.2	10.6	9.1	9.4	9.5	9.8	10.2
8H 4H	9.5	9.9	9.9	10.2	10.6	9.0	9.4	9.4	9.8	10.1
6H	9.5	9.8	9.9	10.2	10.6	9.0	9.3	9.4	9.7	10.1
8H	9.4	9.7	9.9	10.1	10.6	9.0	9.3	9.5	9.7	10.1
12H	9.4	9.7	9.9	10.1	10.6	9.0	9.2	9.5	9.7	10.1
12H 4H	9.5	9.8	9.9	10.2	10.5	9.0	9.3	9.4	9.7	10.1
6H	9.4	9.7	9.9	10.1	10.5	9.0	9.2	9.4	9.7	10.1
8H	9.4	9.6	9.9	10.1	10.5	9.0	9.2	9.4	9.6	10.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.2 / - 5.2					+ 2.3 / - 5.2				
1.5H	+ 3.6 / - 5.2					+ 3.7 / - 5.2				
2.0H	+ 4.6 / - 3.3					+ 4.5 / - 2.9				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.0025 m2

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UTILIZATION FACTORS TABLE

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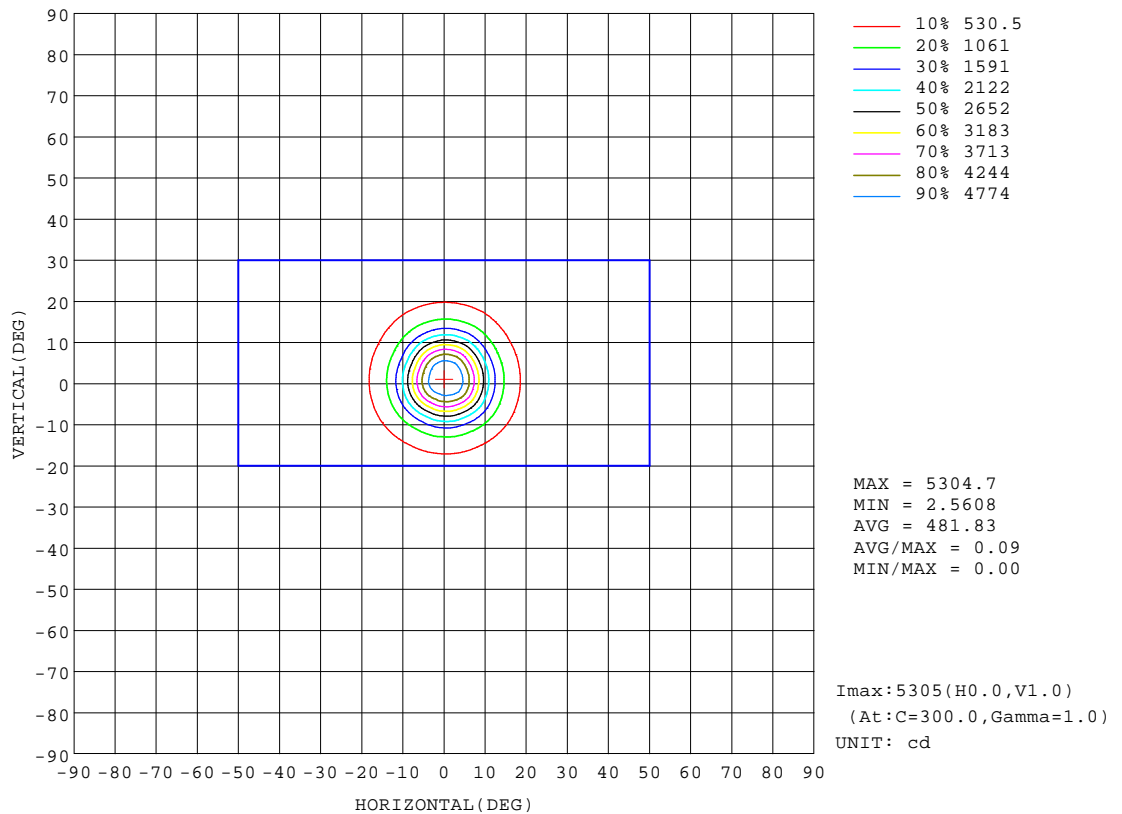
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	78	73	70	77	72	69	77	72	69	67
0.80	84	79	76	83	79	76	82	78	76	73
1.00	87	83	80	86	82	80	85	82	79	76
1.25	90	86	83	89	86	83	88	85	82	79
1.50	92	89	86	91	88	86	89	87	85	81
2.00	94	91	88	93	90	88	91	88	86	82
2.50	96	93	90	94	92	89	92	89	88	83
3.00	97	94	92	95	93	91	92	91	89	84
4.00	98	96	95	97	95	93	94	92	91	85
5.00	99	98	96	98	96	95	94	93	92	86
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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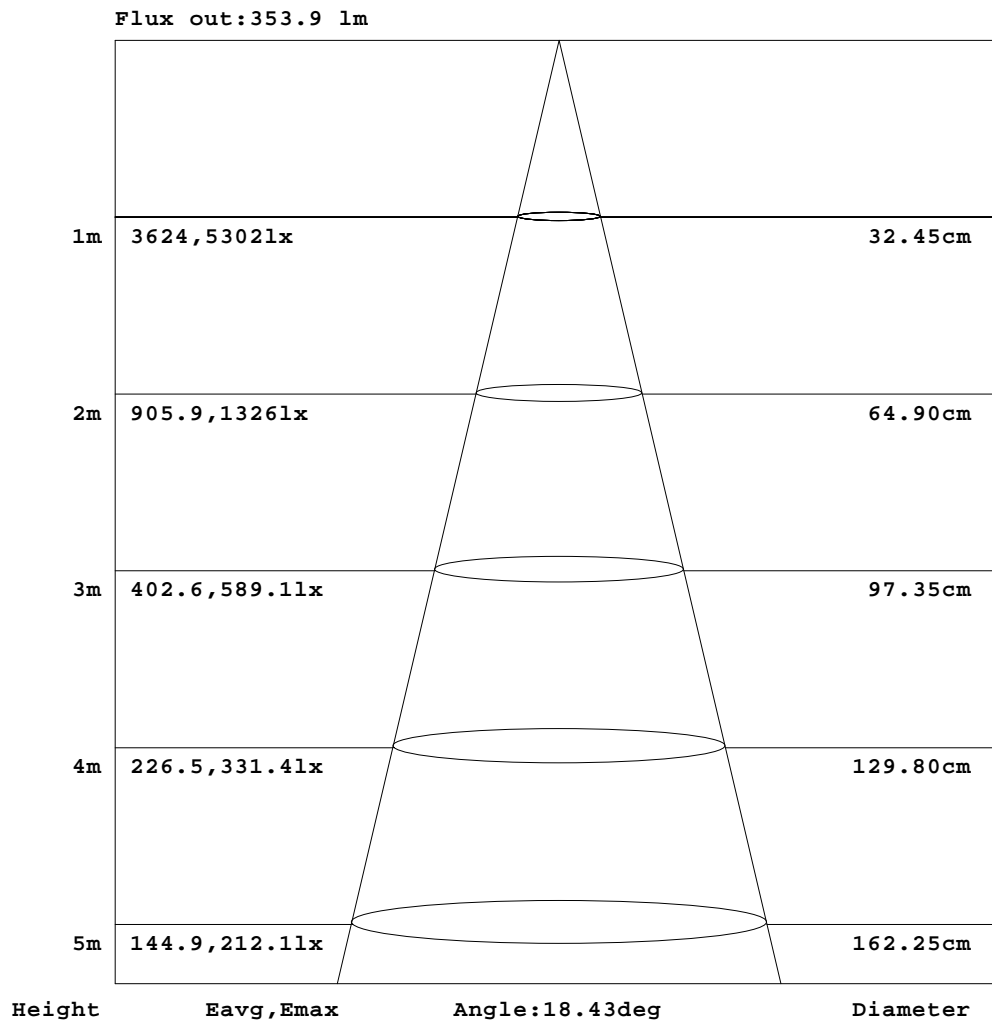


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Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

AAI Figure

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040972
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:



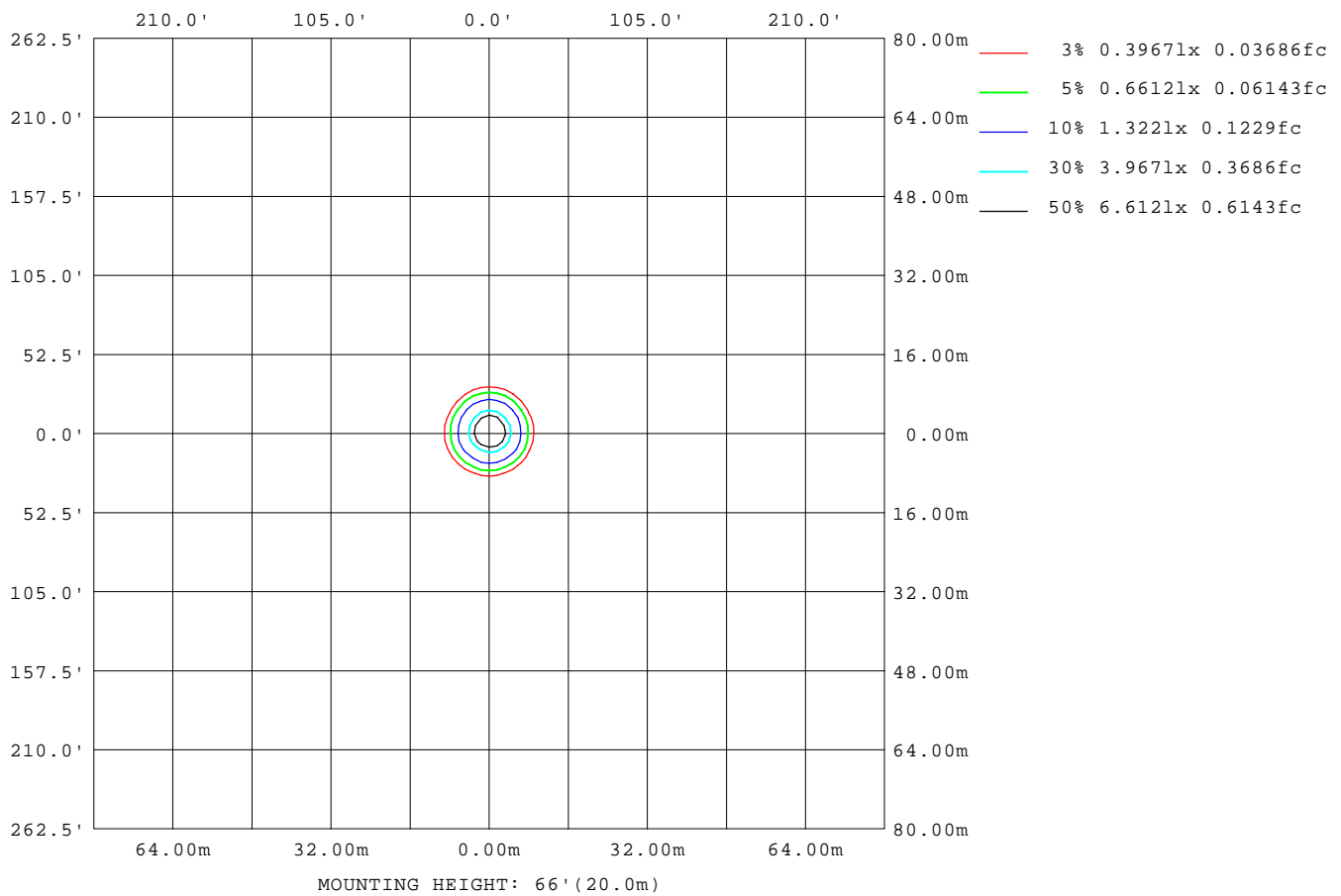
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040972
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040972
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

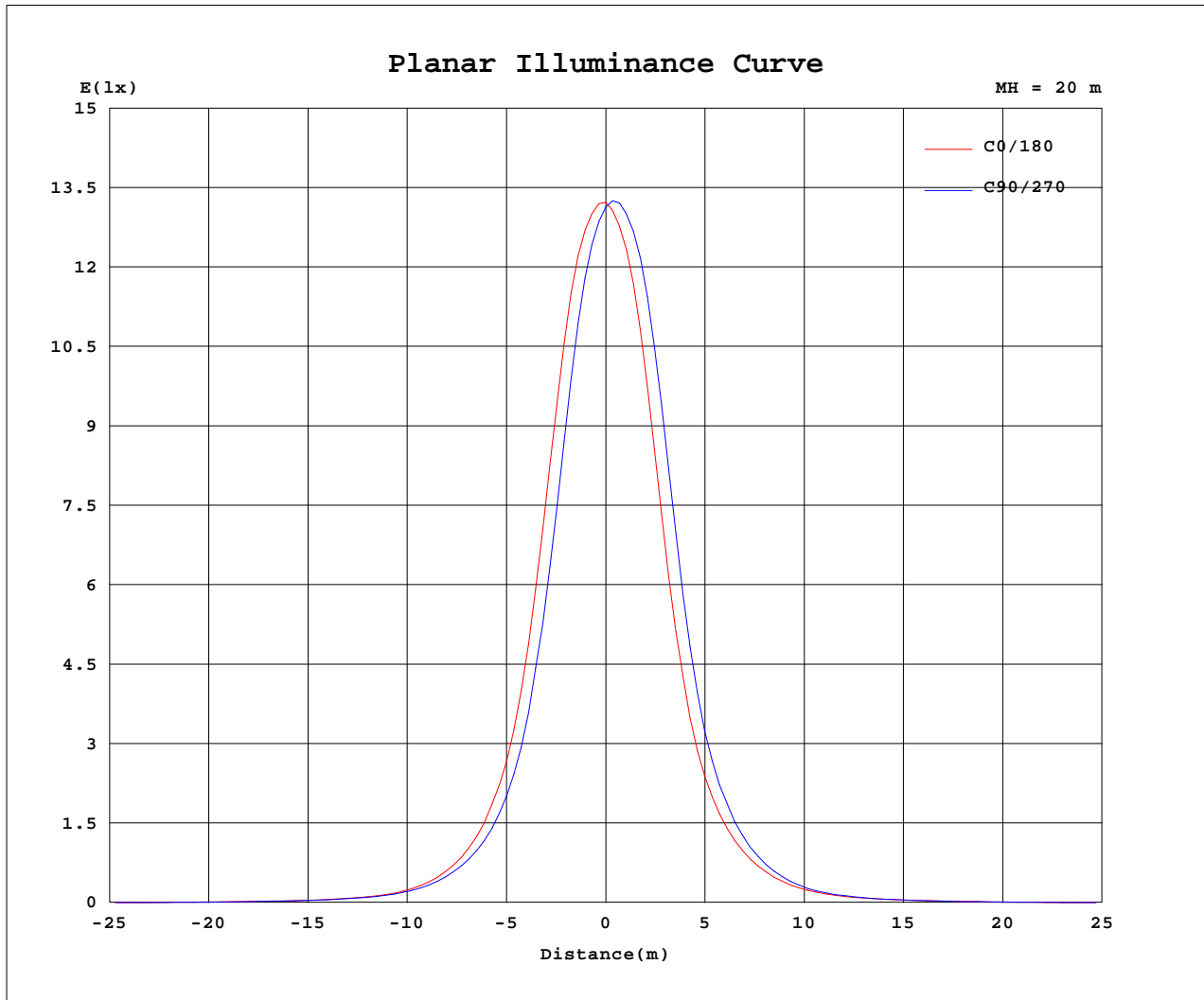
AvgL	cd/m2
L_0~180(65)av	1235
L_0~180(75)av	553
L_0~180(85)av	500
L_90~270(65)av	1261
L_90~270(75)av	516
L_90~270(85)av	460
L_45(65)av	1441
L_45(75)av	661
L_45(85)av	405

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084 15R
DRIVER: 9290 028 088 250mA
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: 2023-8-4

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: CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1084 15R
 DRIVER: 9290 028 088 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040972
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5265	5265	5265	5265	5265	5265	5265	5265	5265	5265	5265	5265						
5	4634	4499	4170	4005	3985	4195	4352	4484	4785	4934	4947	4765						
10	2467	2302	1965	1857	1802	2018	2134	2278	2692	2930	2961	2663						
15	978	924	807	749	743	824	884	943	1103	1190	1206	1056						
20	411	392	345	335	335	372	396	418	482	507	504	438						
25	173	163	148	149	153	170	177	181	209	215	217	185						
30	79.4	76.6	71.5	73.7	75.4	83.1	86.0	86.6	92.9	95.2	94.1	85.5						
35	42.9	40.4	38.5	40.8	42.2	45.9	47.1	45.6	48.6	49.5	48.4	44.6						
40	26.0	25.4	24.2	24.6	25.6	28.1	27.0	28.2	28.6	27.7	28.6	27.1						
45	14.2	15.9	14.9	12.8	14.8	16.0	12.5	17.1	17.9	14.3	17.7	16.7						
50	5.37	8.61	7.38	4.32	7.21	6.97	3.64	8.45	8.10	4.97	9.92	8.63						
55	2.80	3.75	3.04	2.65	3.03	2.69	2.38	2.98	2.94	2.65	3.75	3.14						
60	2.14	2.43	2.27	2.01	2.13	1.97	1.76	2.03	2.08	1.99	2.23	2.22						
65	1.47	1.76	1.61	1.38	1.47	1.36	1.14	1.35	1.38	1.29	1.53	1.55						
70	0.81	1.03	0.88	0.73	0.81	0.72	0.57	0.67	0.68	0.61	0.88	0.89						
75	0.44	0.54	0.50	0.40	0.45	0.38	0.28	0.32	0.32	0.27	0.40	0.45						
80	0.32	0.34	0.36	0.33	0.32	0.26	0.22	0.21	0.19	0.18	0.22	0.27						
85	0.18	0.17	0.16	0.13	0.08	0.06	0.04	0.02	0.04	0.07	0.07	0.13						
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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Operators:zoe
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