

Luminaire Photograph



Light Output Ratio:	84.4%	
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: DAMIN
Test Date: 2023-8-1

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-1084A 24R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

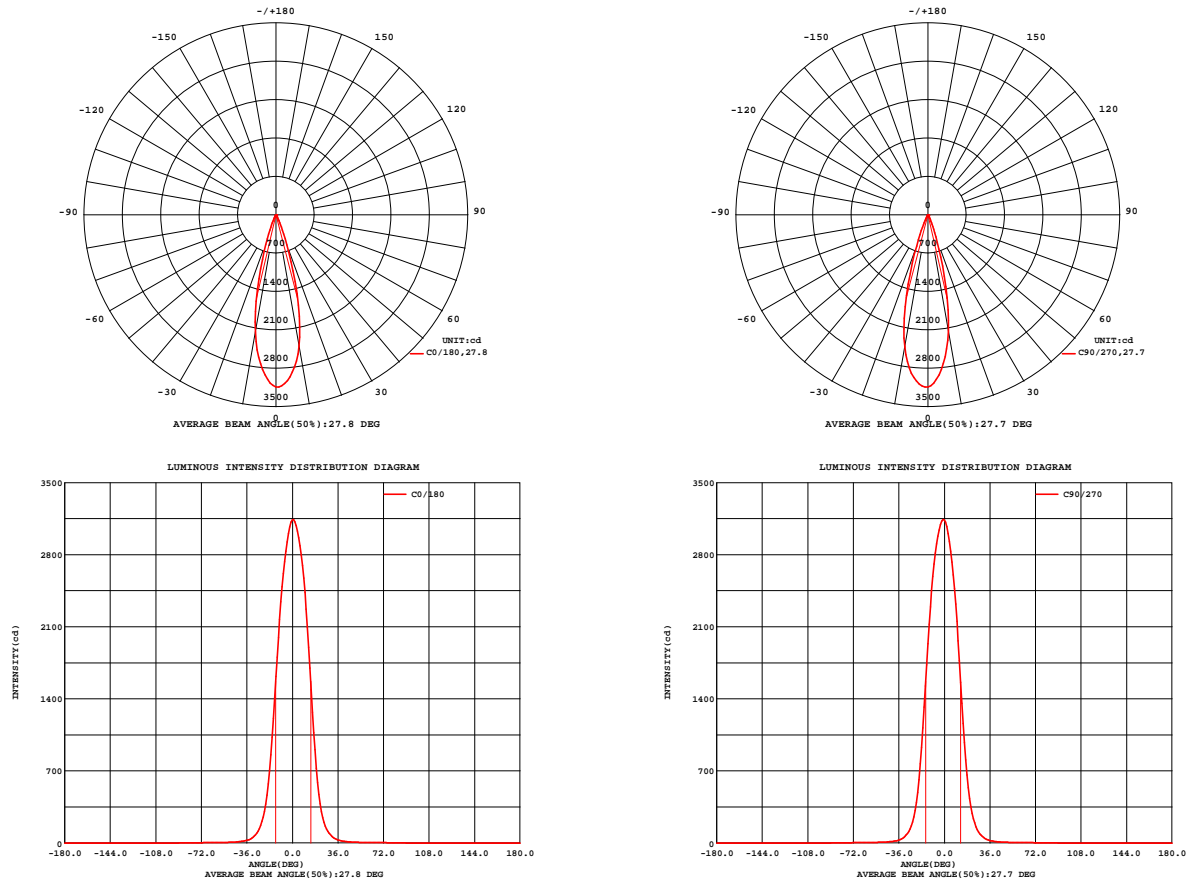


Fig. C0/C180

Fig. C90/C270

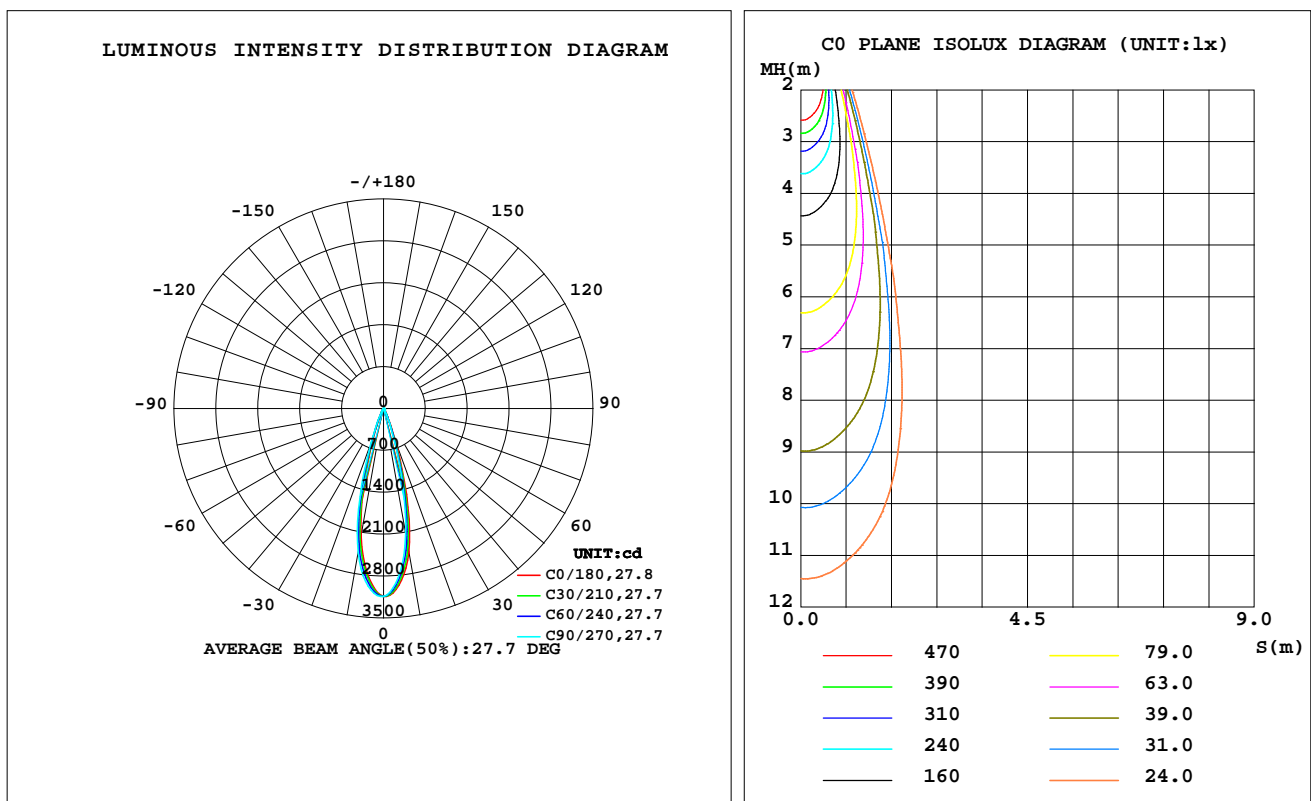
C Range: 0 - 360DEG
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2218.511-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308010965
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.17 lm/W			
MODEL	CREE	I _{max} (cd)	3152	S/MH(C0/180)	0.43
NOMINAL POWER(W)	11	LOR(%)	84.4	S/MH(C90/270)	0.46
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	756.56	η UP,DN(C0-180)	0.0,40.0
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,44.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	84.4	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

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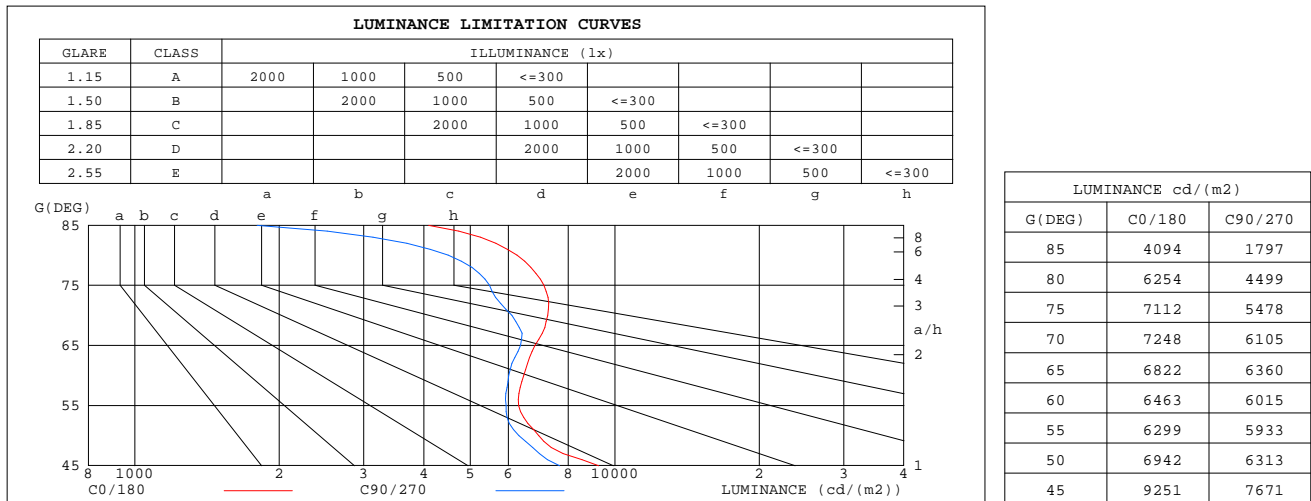
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2433	2295	2153	2079	2172	2312	2447	2517	0- 10	258.1	258.1	34.1,28.8
20	586.2	501.2	433.8	408.2	466.1	536.0	612.9	668.3	10- 20	360.3	618.3	81.7,69
30	80.83	66.49	62.87	60.69	66.07	67.40	77.76	87.05	20- 30	96.43	714.8	94.5,79.7
40	18.04	16.70	15.17	14.68	15.76	16.50	17.11	18.28	30- 40	21.48	736.2	97.3,82.1
50	7.081	6.943	6.453	6.269	6.480	6.809	7.032	7.085	40- 50	7.859	744.1	98.4,83
60	5.128	5.048	4.782	4.650	4.723	4.880	5.004	5.103	50- 60	5.060	749.2	99,83.5
70	3.934	3.713	3.320	3.247	3.306	3.472	3.700	3.935	60- 70	4.277	753.4	99.6,84
80	1.723	1.597	1.242	1.079	1.050	1.139	1.376	1.644	70- 80	2.635	756.1	99.9,84.3
90	0	0	0	0	0	0	0	0	80- 90	0.4908	756.6	100,84.4
100	0	0	0	0	0	0	0	0	90-100	0	756.6	100,84.4
110	0	0	0	0	0	0	0	0	100-110	0	756.6	100,84.4
120	0	0	0	0	0	0	0	0	110-120	0	756.6	100,84.4
130	0	0	0	0	0	0	0	0	120-130	0	756.6	100,84.4
140	0	0	0	0	0	0	0	0	130-140	0	756.6	100,84.4
150	0	0	0	0	0	0	0	0	140-150	0	756.6	100,84.4
160	0	0	0	0	0	0	0	0	150-160	0	756.6	100,84.4
170	0	0	0	0	0	0	0	0	160-170	0	756.6	100,84.4
180	0	0	0	0	0	0	0	0	170-180	0	756.6	100,84.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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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: 2218.511-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308010965
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



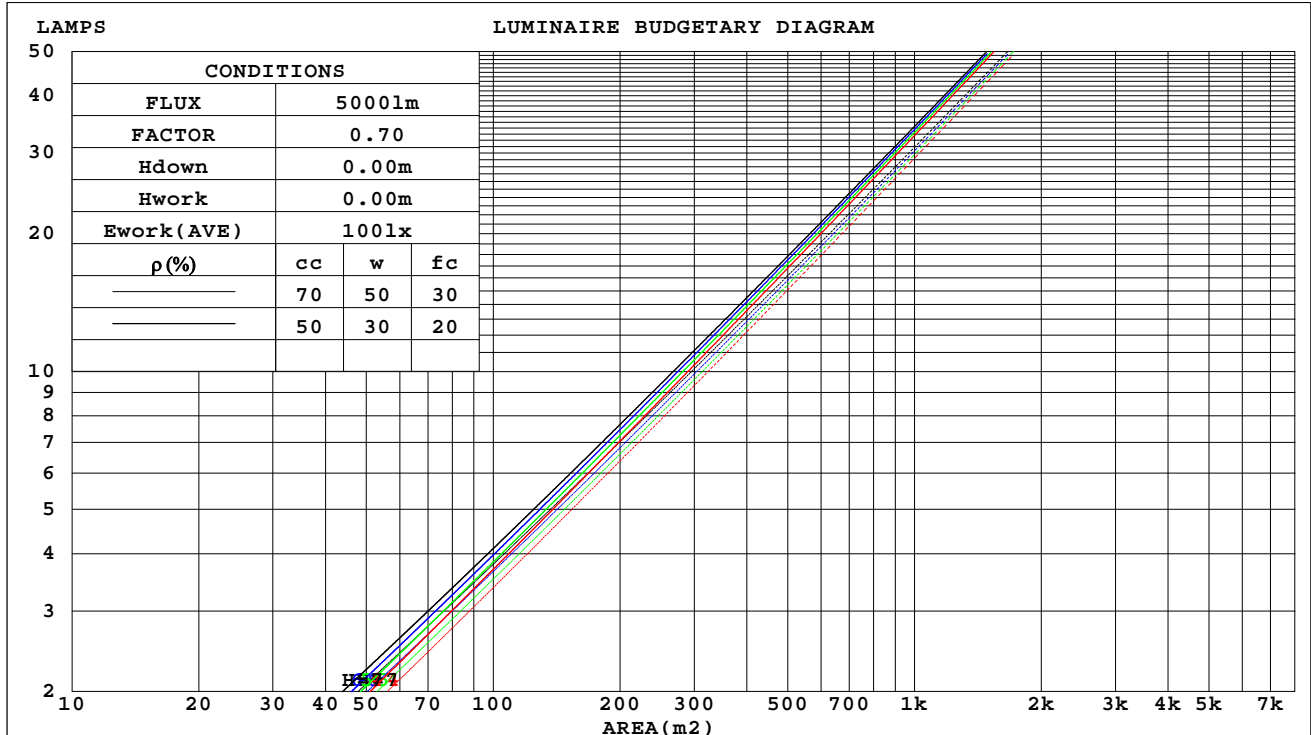
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.00	1.00	1.00	.98	.98	.98	.94	.94	.94	.90	.90	.90	.86	.86	.86	.84
1.0	.95	.93	.92	.93	.92	.91	.90	.89	.88	.87	.86	.85	.84	.83	.83	.81
2.0	.91	.88	.86	.89	.87	.85	.86	.85	.83	.84	.83	.81	.82	.81	.80	.78
3.0	.87	.83	.81	.85	.83	.80	.83	.81	.79	.81	.80	.78	.80	.78	.77	.76
4.0	.83	.80	.77	.82	.79	.77	.81	.78	.76	.79	.77	.75	.78	.76	.74	.73
5.0	.80	.77	.74	.79	.76	.74	.78	.75	.73	.77	.74	.72	.76	.74	.72	.71
6.0	.77	.74	.71	.77	.73	.71	.76	.73	.71	.75	.72	.70	.74	.71	.70	.69
7.0	.75	.71	.69	.74	.71	.69	.73	.70	.68	.73	.70	.68	.72	.69	.68	.67
8.0	.73	.69	.67	.72	.69	.67	.71	.68	.66	.71	.68	.66	.70	.68	.66	.65
9.0	.70	.67	.65	.70	.67	.65	.69	.67	.64	.69	.66	.64	.68	.66	.64	.63
10.0	.69	.65	.63	.68	.65	.63	.68	.65	.63	.67	.64	.63	.67	.64	.62	.62



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308010965
MFR.: RISE	SUR.: 0.001589625m2	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	.119	.067	.021	.113	.064	.020	.102	.059	.019	.093	.054	.017	.084	.049	.016	
2.0	.110	.060	.018	.105	.058	.018	.096	.054	.017	.088	.050	.016	.081	.046	.014	
3.0	.102	.054	.016	.098	.053	.016	.091	.049	.015	.084	.046	.014	.078	.043	.013	
4.0	.095	.049	.015	.092	.048	.014	.086	.046	.014	.080	.043	.013	.075	.041	.012	
5.0	.089	.046	.013	.087	.045	.013	.082	.042	.013	.077	.040	.012	.072	.039	.012	
6.0	.085	.042	.012	.082	.041	.012	.078	.040	.012	.074	.038	.011	.070	.037	.011	
7.0	.080	.040	.011	.078	.039	.011	.074	.038	.011	.071	.036	.011	.067	.035	.010	
8.0	.076	.037	.010	.074	.037	.010	.071	.036	.010	.068	.034	.010	.065	.033	.010	
9.0	.073	.035	.010	.071	.035	.010	.068	.034	.010	.065	.033	.009	.063	.032	.009	
10.0	.070	.033	.009	.068	.033	.009	.066	.032	.009	.063	.031	.009	.061	.031	.009	

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	.161	.161	.161	.137	.137	.137	.094	.094	.094	.054	.054	.054	.017	.017	.017		
1.0	.142	.133	.125	.122	.114	.107	.083	.079	.074	.048	.045	.043	.015	.015	.014		
2.0	.127	.112	.099	.109	.096	.086	.075	.067	.060	.043	.039	.035	.014	.013	.011		
3.0	.115	.096	.080	.098	.082	.070	.067	.057	.049	.039	.033	.029	.013	.011	.009		
4.0	.104	.083	.066	.089	.071	.058	.061	.050	.041	.035	.029	.024	.011	.009	.008		
5.0	.095	.072	.055	.082	.063	.048	.056	.044	.034	.033	.026	.020	.011	.008	.007		
6.0	.088	.064	.047	.075	.055	.041	.052	.039	.029	.030	.023	.017	.010	.007	.006		
7.0	.081	.057	.040	.070	.049	.035	.048	.035	.025	.028	.020	.015	.009	.007	.005		
8.0	.076	.051	.034	.065	.044	.030	.045	.031	.021	.026	.018	.013	.008	.006	.004		
9.0	.071	.046	.030	.061	.040	.026	.042	.028	.019	.025	.017	.011	.008	.005	.004		
10.0	.067	.042	.026	.057	.037	.023	.040	.026	.016	.023	.015	.010	.008	.005	.003		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308010965		
MFR.: RISE					SUR.: 0.001589625m2			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	11.1	11.8	11.3	11.9	12.1	10.5	11.2	10.7	11.3	11.5
3H	12.4	13.0	12.7	13.2	13.4	11.8	12.4	12.0	12.6	12.8
4H	13.1	13.7	13.3	13.9	14.1	12.3	12.9	12.5	13.1	13.3
6H	13.5	14.1	13.8	14.3	14.6	12.6	13.2	12.9	13.4	13.7
8H	13.7	14.2	14.0	14.4	14.7	12.7	13.2	13.0	13.5	13.7
12H	13.7	14.2	14.0	14.5	14.8	12.7	13.2	13.0	13.5	13.7
4H 2H	11.5	12.1	11.8	12.3	12.5	11.0	11.6	11.3	11.8	12.0
3H	13.1	13.6	13.4	13.9	14.1	12.5	13.1	12.8	13.3	13.6
4H	13.9	14.3	14.2	14.6	14.9	13.2	13.7	13.5	14.0	14.3
6H	14.5	14.9	14.8	15.2	15.5	13.6	14.1	14.0	14.4	14.7
8H	14.6	15.0	15.0	15.4	15.7	13.7	14.1	14.1	14.5	14.8
12H	14.7	15.1	15.1	15.4	15.8	13.7	14.1	14.1	14.5	14.8
8H 4H	14.1	14.5	14.5	14.8	15.2	13.5	13.9	13.9	14.2	14.6
6H	14.8	15.1	15.2	15.5	15.9	14.1	14.4	14.5	14.8	15.2
8H	15.0	15.3	15.5	15.7	16.2	14.2	14.5	14.7	14.9	15.4
12H	15.1	15.4	15.6	15.8	16.3	14.2	14.5	14.7	14.9	15.4
12H 4H	14.1	14.5	14.5	14.8	15.2	13.5	13.9	13.9	14.2	14.6
6H	14.8	15.1	15.3	15.5	16.0	14.1	14.4	14.6	14.8	15.3
8H	15.1	15.3	15.5	15.8	16.2	14.3	14.5	14.8	15.0	15.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.5 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 1.1 / - 0.5					+ 0.9 / - 0.5				
2.0H	+ 0.4 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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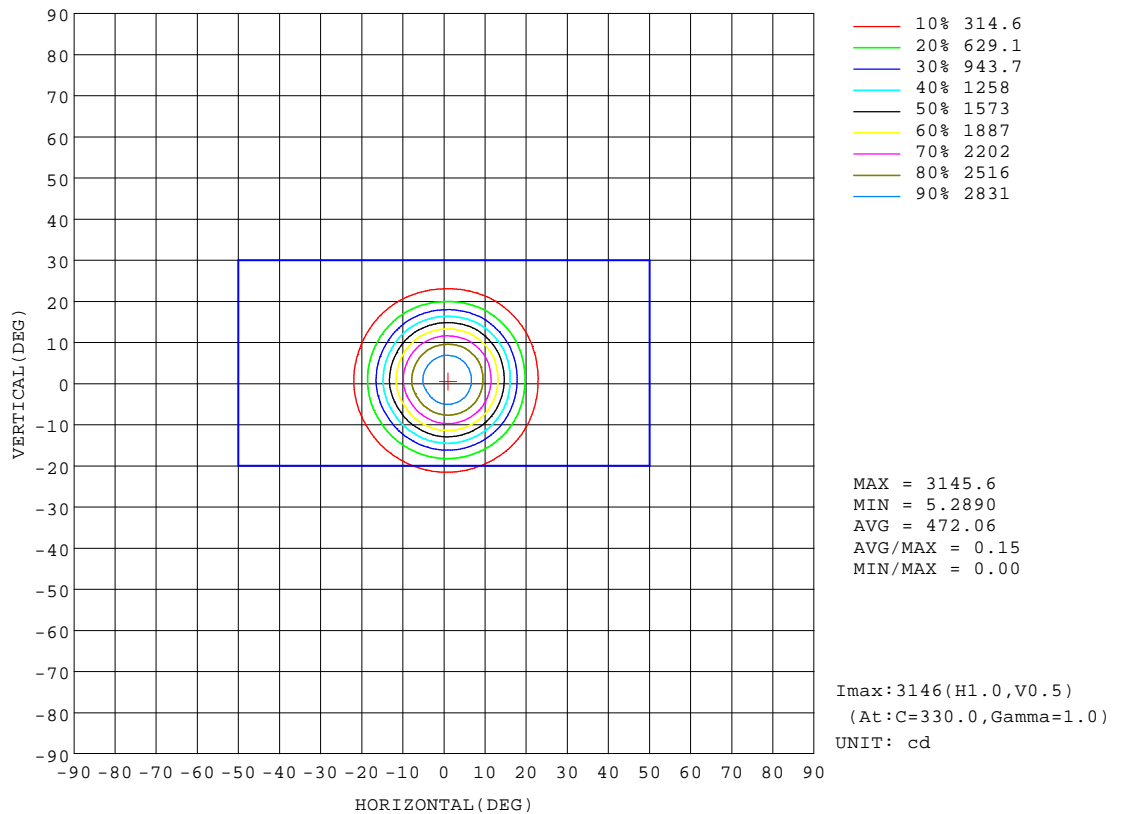
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	71	68	75	71	68	75	70	68	65
0.80	82	77	74	81	77	74	80	76	74	71
1.00	85	81	78	84	80	78	83	80	77	74
1.25	88	84	81	87	84	81	86	83	80	77
1.50	90	87	84	89	86	84	87	85	83	79
2.00	92	89	86	91	88	86	89	86	84	80
2.50	94	91	88	92	89	87	90	87	86	81
3.00	95	92	90	93	91	89	90	89	87	82
4.00	96	94	92	95	93	91	92	90	89	83
5.00	97	96	94	96	94	93	92	91	90	84
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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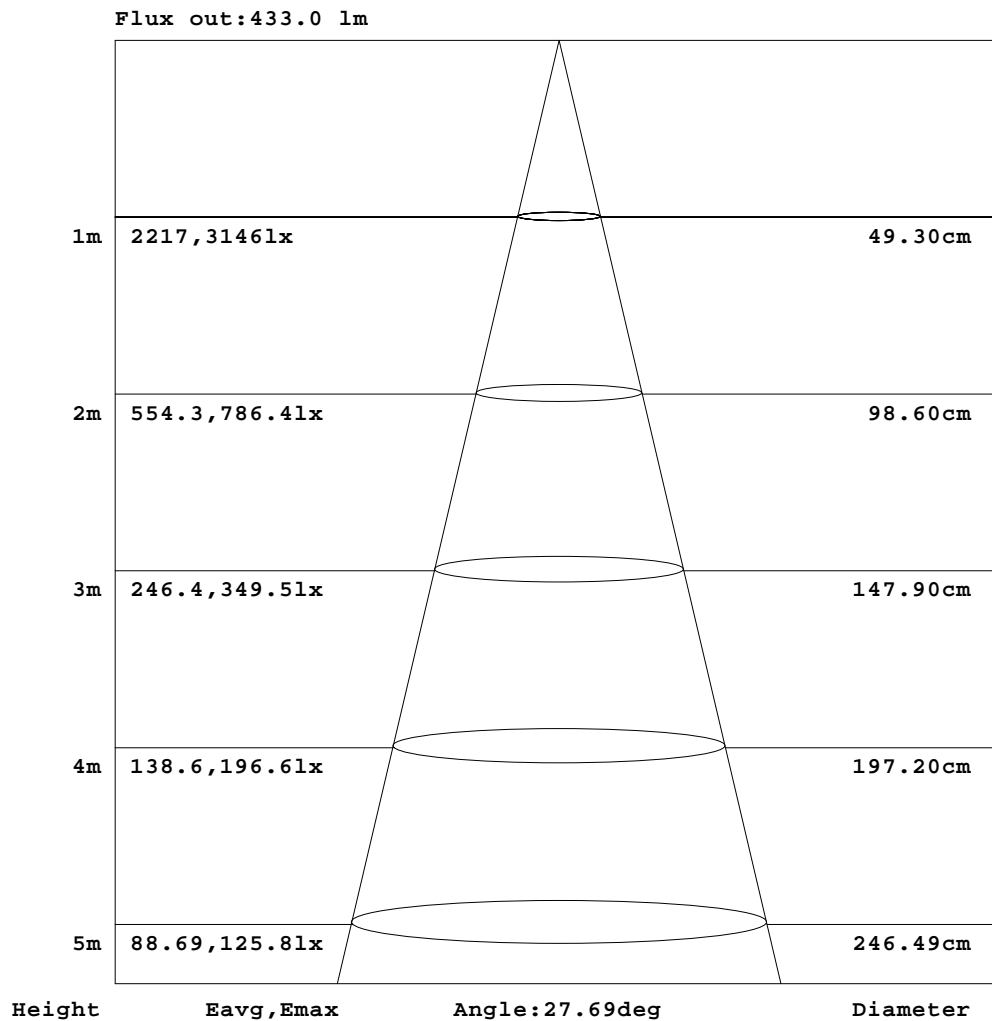


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AAI Figure

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2218.511-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308010965
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



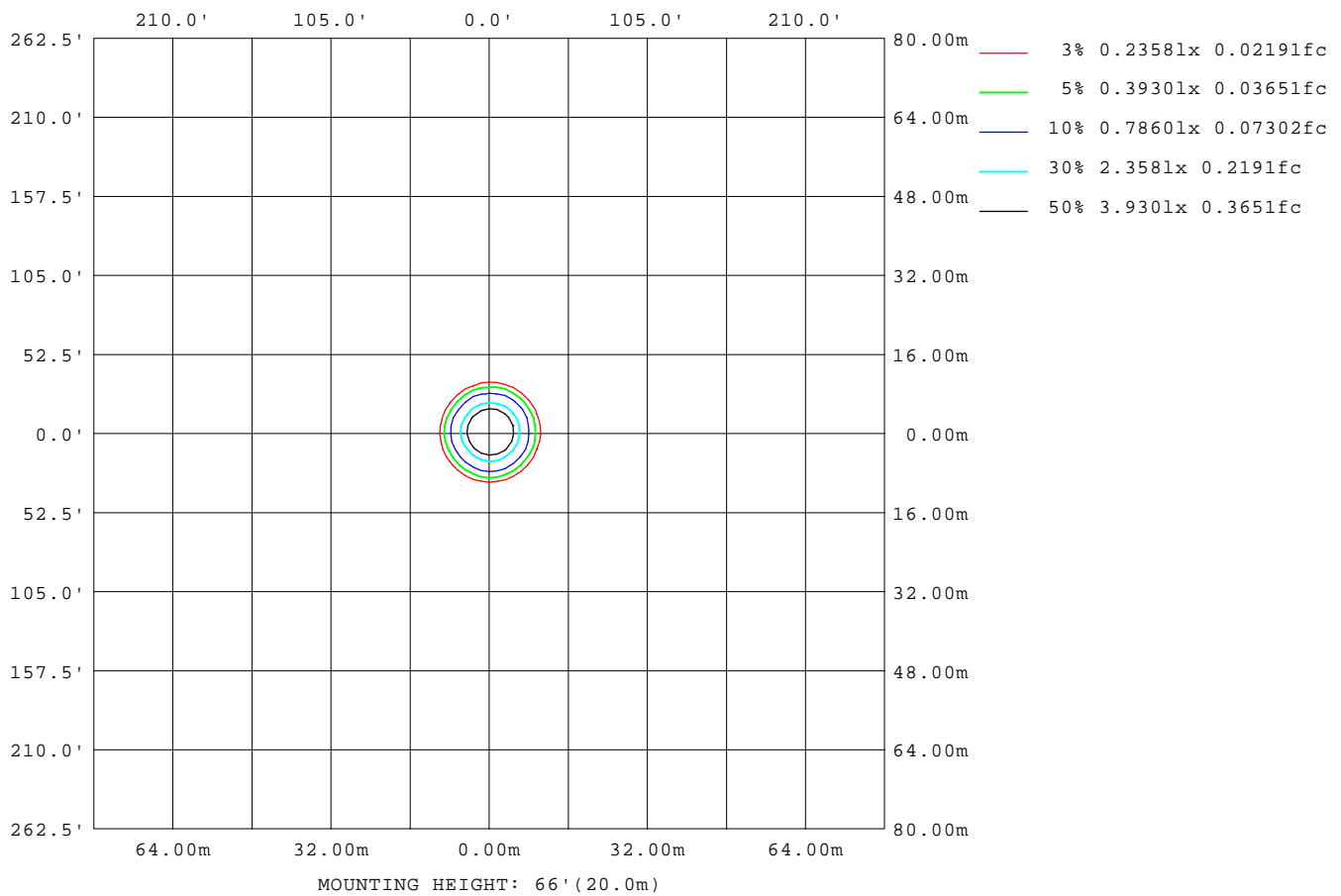
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-8-1

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-1084A 24R
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: 2218.511-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308010965
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2023-8-1

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-1084A 24R
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: 2218.511-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308010965
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

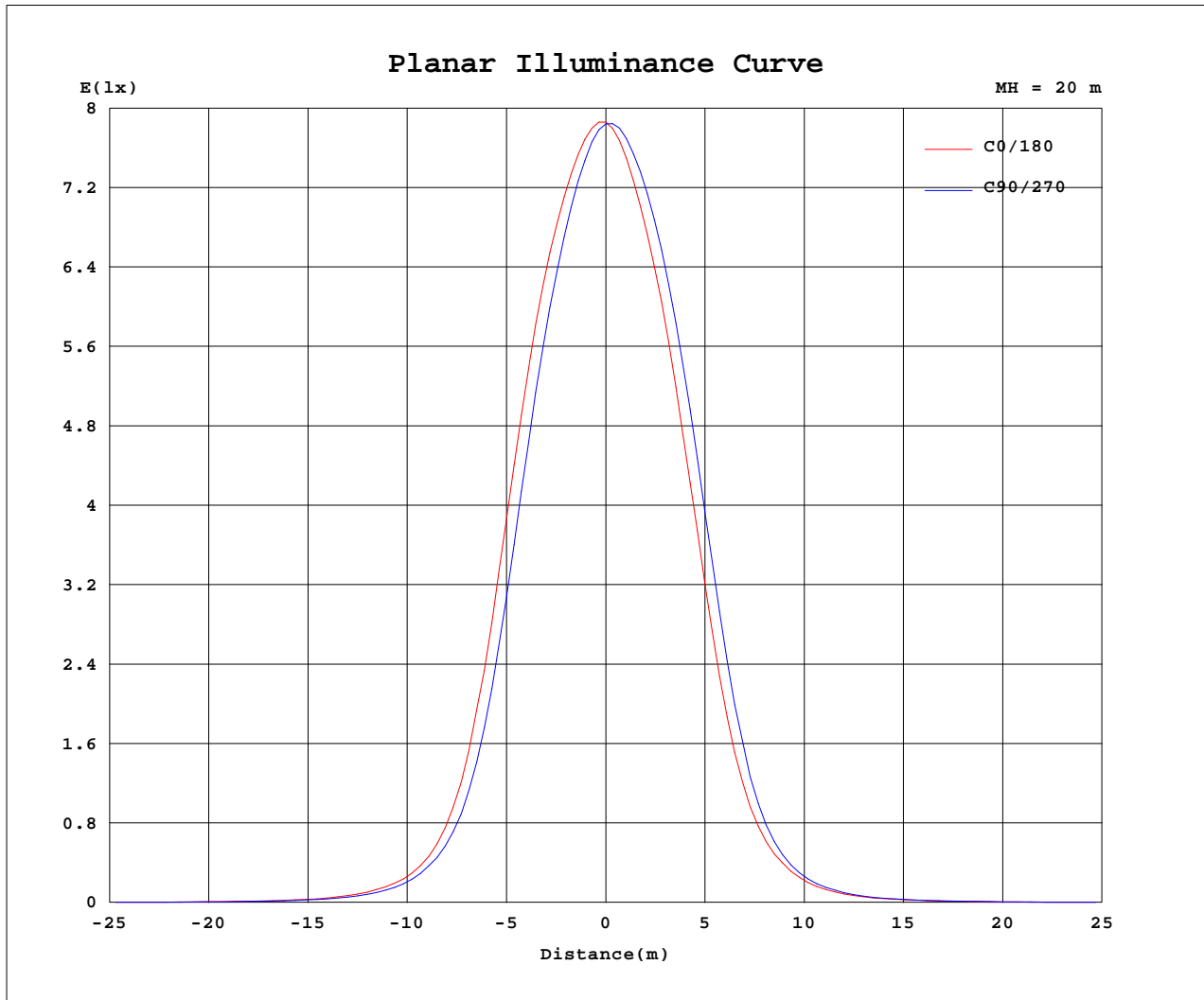
AvgL	cd/m2
L_0~180(65)av	6492
L_0~180(75)av	6226
L_0~180(85)av	2394
L_90~270(65)av	6461
L_90~270(75)av	5858
L_90~270(85)av	1919
L_45(65)av	6482
L_45(75)av	6164
L_45(85)av	2155

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-8-1

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-1084A 24R
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: DAMIN
 Test Date: 2023-8-1

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-1084A 24R
 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: 2218.511-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308010965
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139						
5	2963	2930	2880	2834	2800	2789	2832	2877	2927	2979	3004	3000						
10	2433	2348	2241	2153	2082	2075	2172	2257	2366	2447	2517	2516						
15	1488	1381	1246	1161	1093	1100	1211	1295	1430	1525	1627	1609						
20	586	534	469	434	405	412	466	503	569	613	674	662						
25	201	185	165	158	151	154	169	175	196	204	230	221						
30	80.8	69.9	63.1	62.9	60.1	61.3	66.1	65.7	69.1	77.8	86.0	88.2						
35	34.8	31.3	29.1	28.2	27.0	27.4	29.2	29.6	30.5	33.1	36.1	37.2						
40	18.0	17.2	16.2	15.2	14.6	14.8	15.8	16.3	16.7	17.1	18.2	18.4						
45	10.4	10.1	9.44	8.63	8.29	8.28	8.86	9.44	9.77	10.1	10.6	10.7						
50	7.08	7.07	6.81	6.45	6.24	6.30	6.48	6.70	6.92	7.03	7.08	7.09						
55	5.73	5.76	5.62	5.41	5.30	5.27	5.39	5.46	5.60	5.65	5.72	5.79						
60	5.13	5.11	4.99	4.78	4.65	4.65	4.72	4.81	4.95	5.00	5.08	5.13						
65	4.58	4.54	4.43	4.27	4.12	4.08	4.15	4.25	4.35	4.41	4.50	4.57						
70	3.93	3.82	3.61	3.32	3.27	3.22	3.31	3.40	3.54	3.70	3.88	3.99						
75	2.92	2.84	2.64	2.25	2.27	2.17	2.20	2.25	2.39	2.57	2.77	2.92						
80	1.72	1.67	1.52	1.24	1.13	1.02	1.05	1.08	1.20	1.38	1.57	1.72						
85	0.57	0.53	0.40	0.25	0.14	0.09	0.10	0.09	0.16	0.28	0.43	0.55						
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:DAMIN
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