

Luminaire Photograph



Light Output Ratio:	28.2%	
Luminaire Power:	6.362 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.25	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: MEDIUM
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-10-22

Range: 0 - 180DEG
Interval: 0.5DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90
LENS: 15R
NO DRIVER: DC 24V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

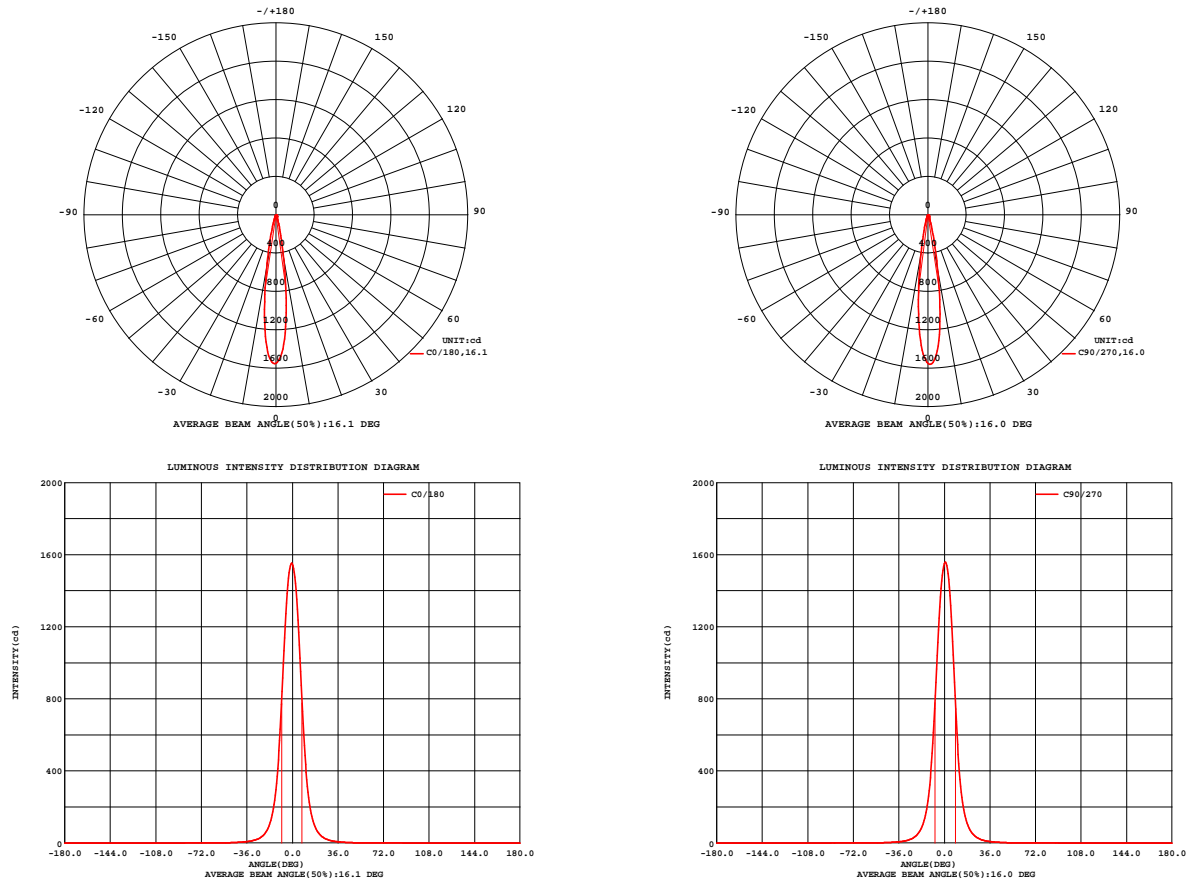


Fig. C0/C180

Fig. C90/C270

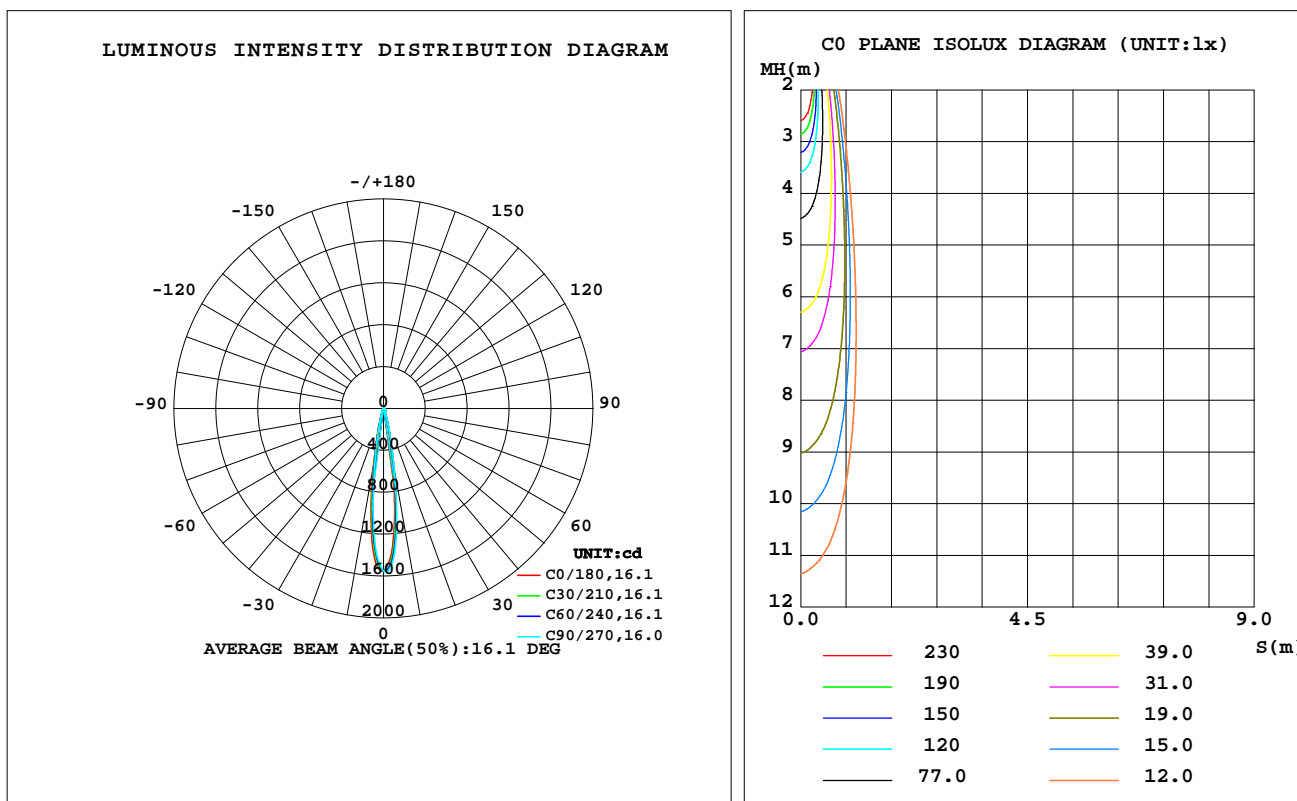
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.998V I:0.2651A P:6.3619W PF:1.0000 Freq:59.98Hz Lamp Flux:603.06x1 lm		
NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221786
MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 26.69 lm/W			
MODEL	CREE	I _{max} (cd)	1560	S/MH(C0/180)	0.29
NOMINAL POWER(W)	7	LOR(%)	28.2	S/MH(C90/270)	0.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	169.78	UP,DN(C0-180)	0.0,14.9
NOMINAL FLUX(lm)	603.06	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,13.2
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	down(%)	28.2	CIBSE SHR MAX	0.25



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ZONAL FLUX DIAGRAM

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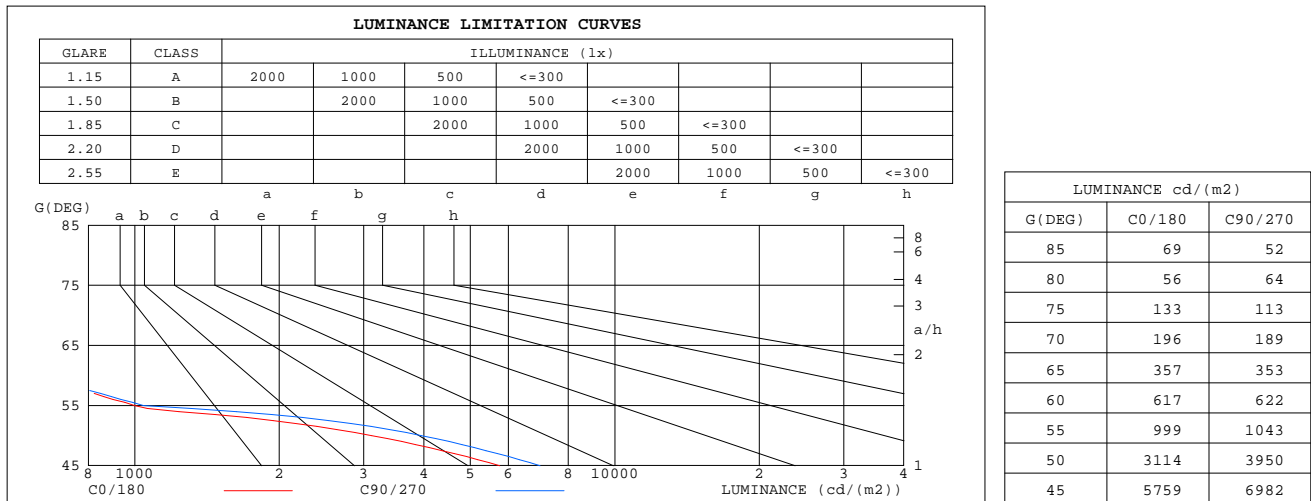
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	485.7	556.0	608.0	597.6	570.1	499.9	448.0	446.1	0- 10	91.99	91.99	54.2,15.3
20	63.37	71.91	77.35	76.49	70.34	63.79	59.19	59.83	10- 20	54.87	146.9	86.5,24.4
30	13.98	15.24	16.53	16.60	15.15	14.19	13.14	13.29	20- 30	14.84	161.7	95.2,26.8
40	4.422	4.637	5.204	5.449	4.961	4.664	4.339	4.340	30- 40	5.319	167.0	98.4,27.7
50	1.234	1.265	1.563	1.631	1.429	1.308	1.221	1.300	40- 50	2.173	169.2	99.7,28.1
60	0.1902	0.1871	0.1914	0.1923	0.1832	0.1701	0.1683	0.1821	50- 60	0.4689	169.7	99.9,28.1
70	0.0413	0.0412	0.0397	0.0430	0.0426	0.0395	0.0404	0.0425	60- 70	0.0957	169.8	100,28.1
80	0.0060	0.0071	0.0068	0.0065	0.0071	0.0076	0.0093	0.0057	70- 80	0.0214	169.8	100,28.2
90	0	0	0	0	0	0	0	0	80- 90	0.0020	169.8	100,28.2
100	0	0	0	0	0	0	0	0	90-100	0	169.8	100,28.2
110	0	0	0	0	0	0	0	0	100-110	0	169.8	100,28.2
120	0	0	0	0	0	0	0	0	110-120	0	169.8	100,28.2
130	0	0	0	0	0	0	0	0	120-130	0	169.8	100,28.2
140	0	0	0	0	0	0	0	0	130-140	0	169.8	100,28.2
150	0	0	0	0	0	0	0	0	140-150	0	169.8	100,28.2
160	0	0	0	0	0	0	0	0	150-160	0	169.8	100,28.2
170	0	0	0	0	0	0	0	0	160-170	0	169.8	100,28.2
180	0	0	0	0	0	0	0	0	170-180	0	169.8	100,28.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221786
MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:



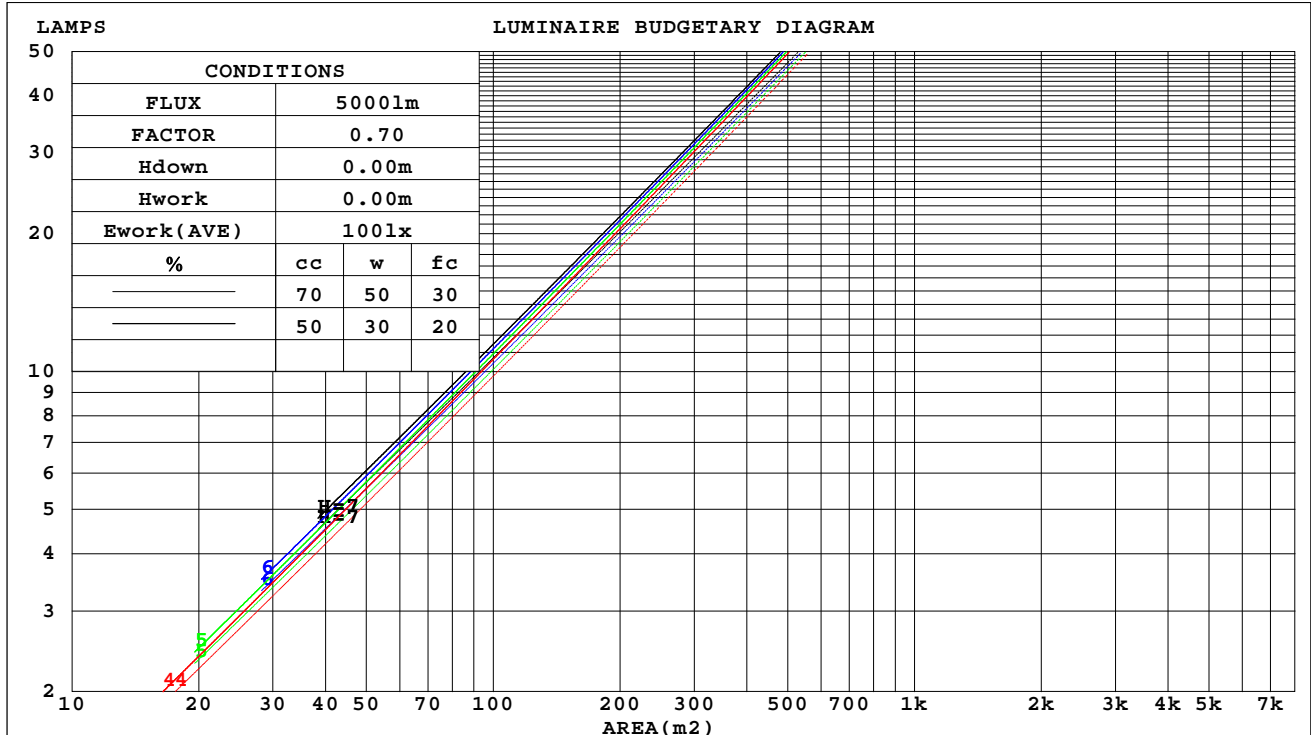
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2410221786
MFR.: RISE	SUR.: 0.00061544m2	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	.34	.34	.34	.33	.33	.33	.31	.31	.31	.30	.30	.30	.29	.29	.29	.28
1.0	.32	.31	.31	.31	.31	.31	.30	.30	.30	.29	.29	.29	.28	.28	.28	.27
2.0	.31	.30	.29	.30	.30	.29	.29	.29	.28	.29	.28	.28	.28	.27	.27	.27
3.0	.30	.29	.28	.29	.28	.28	.29	.28	.27	.28	.27	.27	.27	.27	.27	.26
4.0	.29	.28	.27	.28	.27	.27	.28	.27	.26	.27	.27	.26	.27	.26	.26	.26
5.0	.28	.27	.26	.28	.27	.26	.27	.26	.26	.27	.26	.26	.26	.26	.25	.25
6.0	.27	.26	.25	.27	.26	.25	.27	.26	.25	.26	.25	.25	.26	.25	.25	.25
7.0	.26	.25	.25	.26	.25	.25	.26	.25	.25	.26	.25	.24	.25	.25	.24	.24
8.0	.26	.25	.24	.26	.25	.24	.25	.25	.24	.25	.24	.24	.25	.24	.24	.24
9.0	.25	.24	.24	.25	.24	.24	.25	.24	.24	.25	.24	.23	.25	.24	.23	.23
10.0	.25	.24	.23	.25	.24	.23	.25	.24	.23	.24	.24	.23	.24	.24	.23	.23



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WEC AND CCEC

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NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221786
MFR.: RISE	SUR.: 0.00061544m2	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	.035	.020	.006	.033	.019	.006	.030	.017	.005	.026	.015	.005	.023	.014	.004	
2.0	.032	.018	.005	.030	.017	.005	.028	.015	.005	.025	.014	.004	.023	.013	.004	
3.0	.030	.016	.005	.028	.015	.005	.026	.014	.004	.024	.013	.004	.022	.012	.004	
4.0	.027	.014	.004	.026	.014	.004	.024	.013	.004	.023	.012	.004	.021	.011	.003	
5.0	.026	.013	.004	.025	.013	.004	.023	.012	.004	.022	.011	.003	.020	.011	.003	
6.0	.024	.012	.003	.023	.012	.003	.022	.011	.003	.021	.011	.003	.019	.010	.003	
7.0	.023	.011	.003	.022	.011	.003	.021	.011	.003	.020	.010	.003	.019	.010	.003	
8.0	.022	.011	.003	.021	.010	.003	.020	.010	.003	.019	.010	.003	.018	.009	.003	
9.0	.020	.010	.003	.020	.010	.003	.019	.009	.003	.018	.009	.003	.017	.009	.003	
10.0	.020	.009	.003	.019	.009	.003	.018	.009	.003	.018	.009	.002	.017	.008	.002	

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	.054	.054	.054	.046	.046	.046	.031	.031	.031	.018	.018	.018	.006	.006	.006	
1.0	.047	.044	.042	.040	.038	.036	.028	.026	.025	.016	.015	.015	.005	.005	.005	
2.0	.042	.037	.034	.036	.032	.029	.025	.022	.020	.014	.013	.012	.005	.004	.004	
3.0	.037	.032	.027	.032	.027	.024	.022	.019	.017	.013	.011	.010	.004	.004	.003	
4.0	.034	.027	.023	.029	.024	.020	.020	.017	.014	.011	.010	.008	.004	.003	.003	
5.0	.031	.024	.019	.026	.021	.017	.018	.014	.012	.010	.008	.007	.003	.003	.002	
6.0	.028	.021	.016	.024	.018	.014	.017	.013	.010	.010	.008	.006	.003	.002	.002	
7.0	.026	.019	.014	.022	.016	.012	.015	.011	.009	.009	.007	.005	.003	.002	.002	
8.0	.024	.017	.012	.020	.015	.010	.014	.010	.007	.008	.006	.004	.003	.002	.001	
9.0	.022	.015	.010	.019	.013	.009	.013	.009	.006	.008	.005	.004	.002	.002	.001	
10.0	.020	.014	.009	.018	.012	.008	.012	.008	.006	.007	.005	.003	.002	.002	.001	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2410221786		
MFR.: RISE					SUR.: 0.00061544m2			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	9.1	9.7	9.3	9.8	10.0	9.8	10.4	10.0	10.5	10.7
3H	9.0	9.5	9.2	9.7	9.9	9.7	10.2	9.9	10.4	10.6
4H	8.9	9.4	9.2	9.6	9.8	9.6	10.1	9.9	10.3	10.5
6H	8.9	9.3	9.1	9.6	9.8	9.5	10.0	9.8	10.2	10.5
8H	8.8	9.3	9.1	9.5	9.8	9.5	10.0	9.8	10.2	10.5
12H	8.8	9.2	9.1	9.5	9.7	9.5	9.9	9.8	10.2	10.4
4H 2H	8.9	9.4	9.2	9.6	9.9	9.6	10.1	9.9	10.3	10.5
3H	8.8	9.2	9.1	9.5	9.7	9.5	9.9	9.8	10.2	10.4
4H	8.7	9.1	9.0	9.4	9.7	9.4	9.8	9.7	10.1	10.4
6H	8.6	9.0	9.0	9.3	9.6	9.3	9.6	9.6	10.0	10.3
8H	8.5	8.9	8.9	9.2	9.6	9.2	9.6	9.6	9.9	10.3
12H	8.5	8.8	8.9	9.2	9.5	9.2	9.5	9.6	9.8	10.2
8H 4H	8.5	8.9	8.9	9.2	9.6	9.2	9.6	9.6	9.9	10.3
6H	8.4	8.7	8.8	9.1	9.5	9.1	9.4	9.5	9.8	10.2
8H	8.4	8.6	8.8	9.0	9.5	9.0	9.3	9.5	9.7	10.1
12H	8.3	8.5	8.8	8.9	9.4	9.0	9.2	9.4	9.6	10.1
12H 4H	8.5	8.8	8.9	9.2	9.5	9.2	9.5	9.6	9.8	10.2
6H	8.4	8.6	8.8	9.0	9.5	9.0	9.3	9.5	9.7	10.1
8H	8.3	8.5	8.8	8.9	9.4	9.0	9.2	9.4	9.6	10.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.7 / -11.0					+ 3.1 / -11.4				
1.5H	+ 4.1 / - 9.3					+ 4.4 / -10.0				
2.0H	+ 6.1 / - 9.5					+ 6.5 / -10.3				

CIE Pub.117, 603.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.8)
Area: 0.00061544 m2

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UTILIZATION FACTORS TABLE

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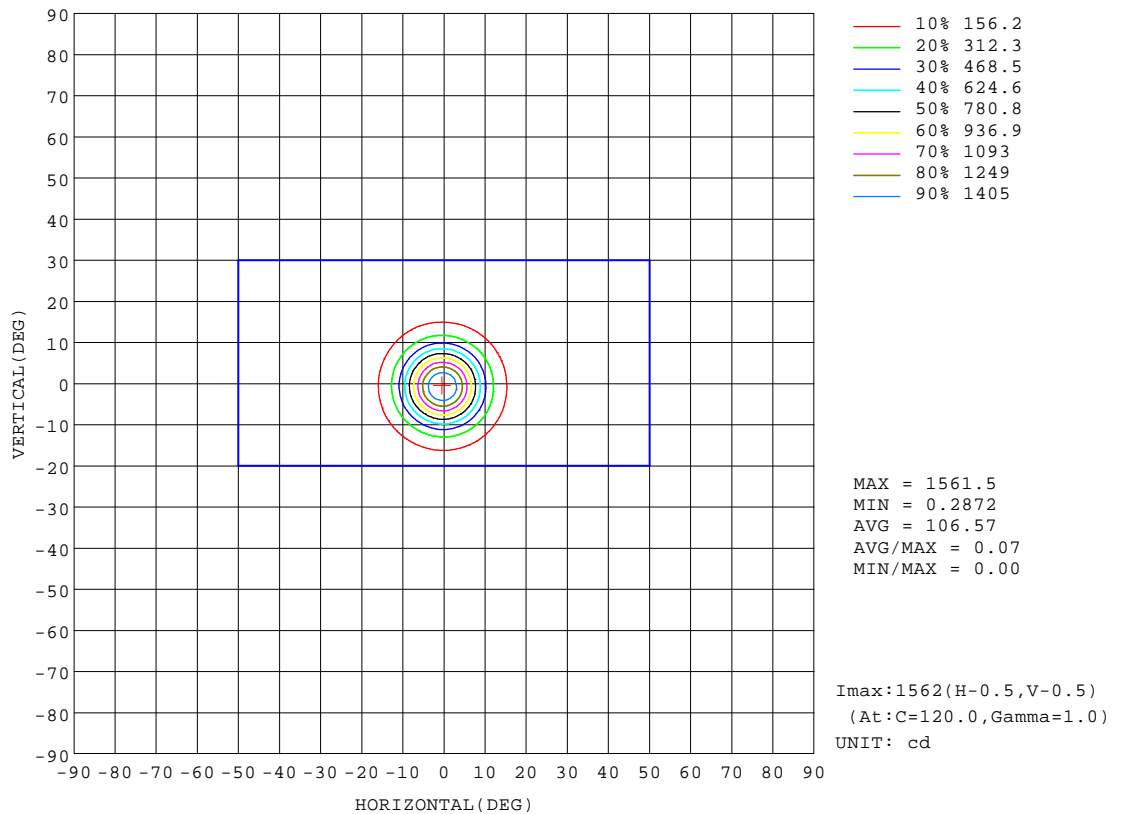
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	25	24	23	25	24	23	25	24	23	22
0.80	27	26	25	27	26	25	27	26	25	24
1.00	29	27	26	28	27	26	28	27	26	25
1.25	30	28	27	29	28	27	29	28	27	26
1.50	30	29	28	30	29	28	29	28	28	27
2.00	31	30	29	30	30	29	30	29	28	27
2.50	31	30	30	31	30	29	30	29	29	27
3.00	32	31	30	31	30	30	30	30	29	27
4.00	32	32	31	32	31	31	31	30	30	28
5.00	33	32	32	32	31	31	31	31	30	28
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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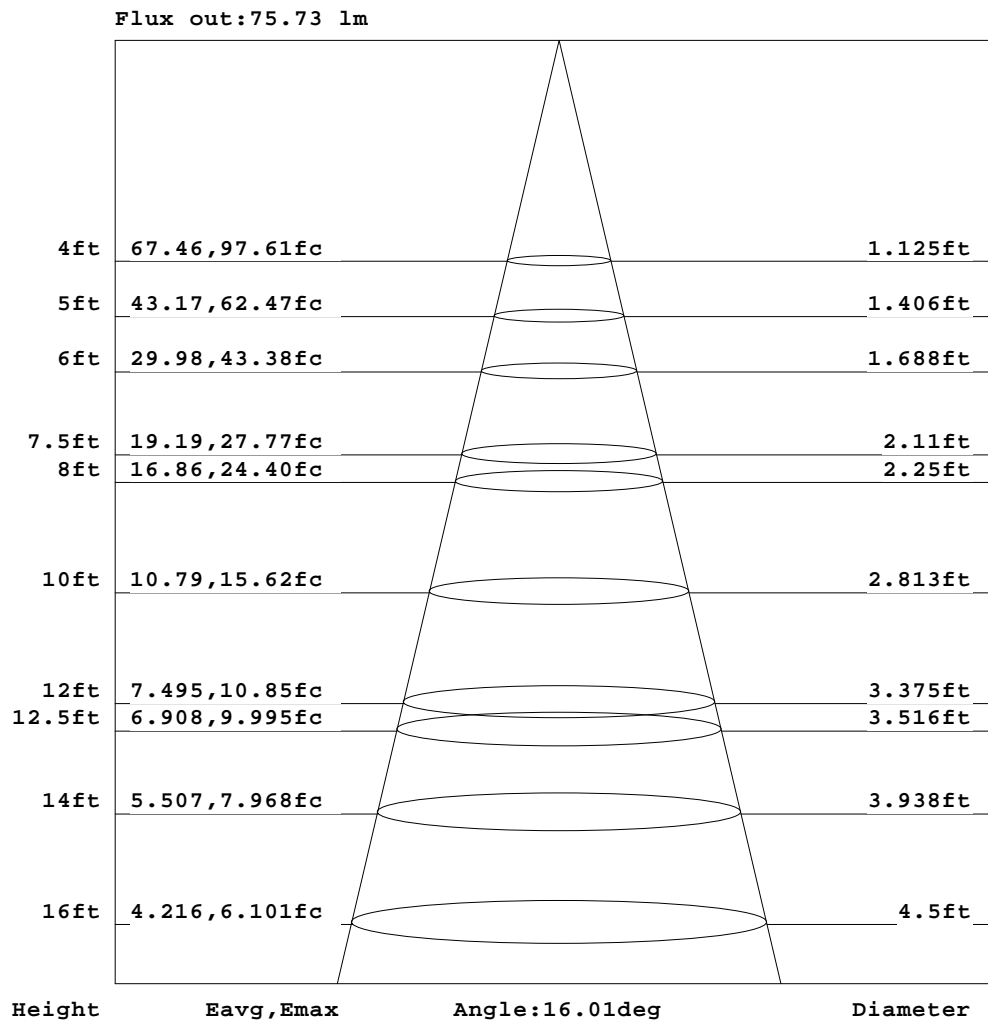


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AAI Figure

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MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:



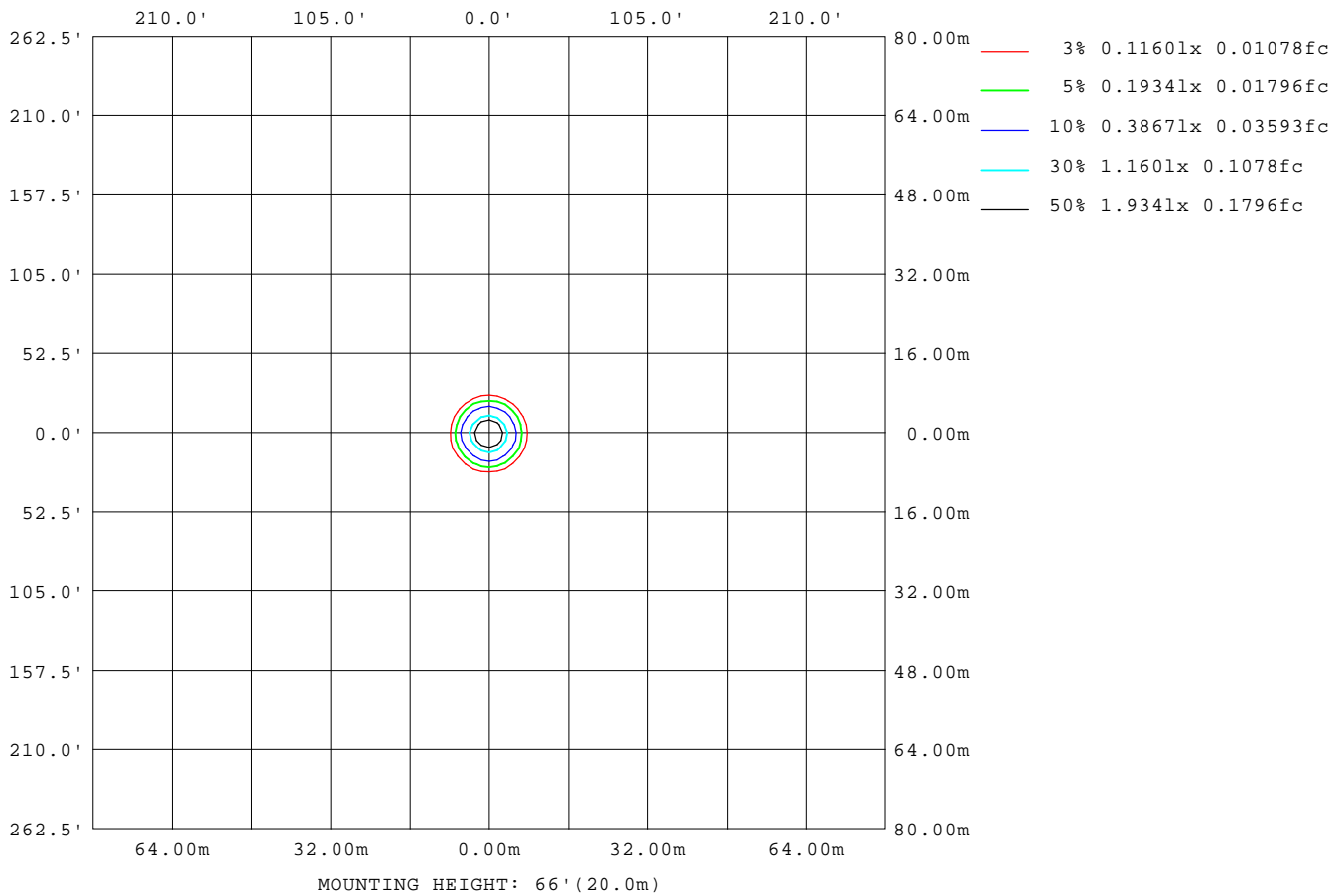
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:zoe
Test Date:2024-10-22

Range: 0 - 180DEG
Interval: 0.5DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS:15R
NO DRIVER:DC 24V
30minutes warm-up

ISOLUX DIAGRAM

Test:U:23.998V I:0.2651A P:6.3619W PF:1.0000 Freq:59.98Hz Lamp Flux:603.06x1 lm		
NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221786
MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:zoe
Test Date:2024-10-22

Range: 0 - 180DEG
Interval: 0.5DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS:15R
NO DRIVER:DC 24V
30minutes warm-up

LED Avg.L Report

Test:U:23.998V I:0.2651A P:6.3619W PF:1.0000 Freq:59.98Hz Lamp Flux:603.06x1 lm		
NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221786
MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:

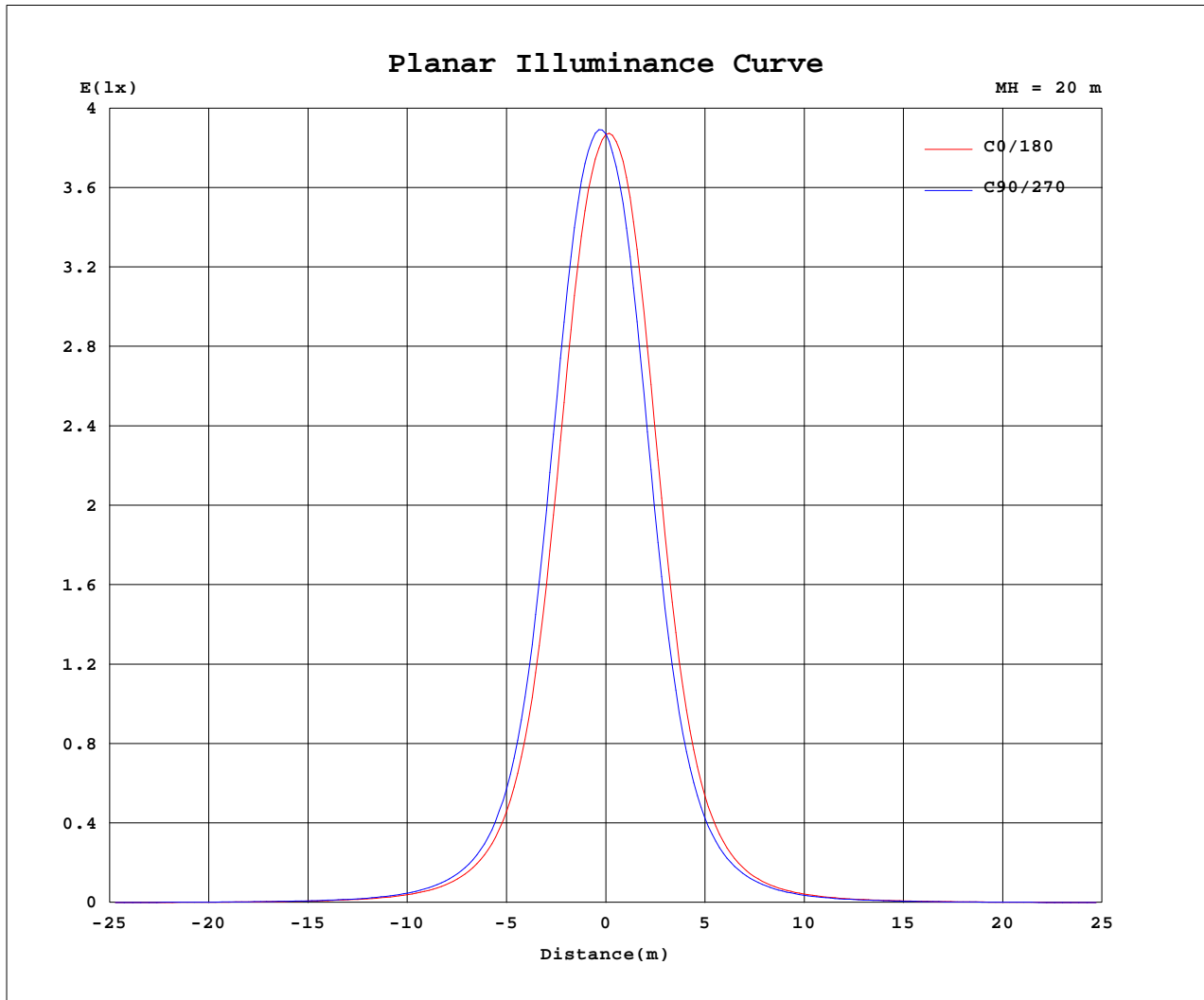
AvgL	cd/m2
L_0~180(65)av	354
L_0~180(75)av	118
L_0~180(85)av	35
L_90~270(65)av	342
L_90~270(75)av	115
L_90~270(85)av	46
L_45(65)av	346
L_45(75)av	111
L_45(85)av	2

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:zoe
Test Date:2024-10-22

Range: 0 - 180DEG
Interval: 0.5DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS:15R
NO DRIVER:DC 24V
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2024-10-22

Range: 0 - 180DEG
 Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90
 LENS: 15R
 NO DRIVER: DC 24V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.2651A P:6.3619W PF:1.0000 Freq:59.98Hz Lamp Flux:603.06x1 lm		
NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221786
MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549						
5	1169	1232	1281	1317	1320	1307	1272	1206	1156	1112	1105	1127						
10	486	534	578	608	602	593	570	519	481	448	439	454						
15	164	181	196	205	201	200	192	175	163	153	150	154						
20	63.4	69.4	74.5	77.3	77.8	75.2	70.3	65.6	62.0	59.2	59.7	60.0						
25	28.1	30.5	32.5	34.0	34.8	33.0	30.4	28.9	27.5	26.2	26.7	26.9						
30	14.0	14.8	15.7	16.5	17.0	16.3	15.1	14.5	13.8	13.1	13.1	13.4						
35	7.66	7.93	8.38	8.97	9.28	9.04	8.43	8.11	7.74	7.34	7.28	7.45						
40	4.42	4.50	4.77	5.20	5.50	5.40	4.96	4.79	4.54	4.34	4.30	4.38						
45	2.51	2.51	2.68	3.04	3.24	3.20	2.89	2.78	2.59	2.50	2.52	2.58						
50	1.23	1.21	1.32	1.56	1.65	1.61	1.43	1.37	1.24	1.22	1.27	1.33						
55	0.35	0.35	0.36	0.37	0.37	0.36	0.34	0.33	0.31	0.32	0.34	0.35						
60	0.19	0.18	0.19	0.19	0.19	0.19	0.18	0.18	0.16	0.17	0.18	0.19						
65	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.09	0.09	0.09						
70	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05						
75	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02						
80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
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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