

### Luminaire Photograph



Light Output Ratio:	67.6%	
Luminaire Power:	11.9 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.10	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-9-13

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: XHP35B-H0-0000-0D0UA430G Ra:90  
LENS: PM-1069 6R  
DRIVER: EUP30A-1HMC-1 800mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

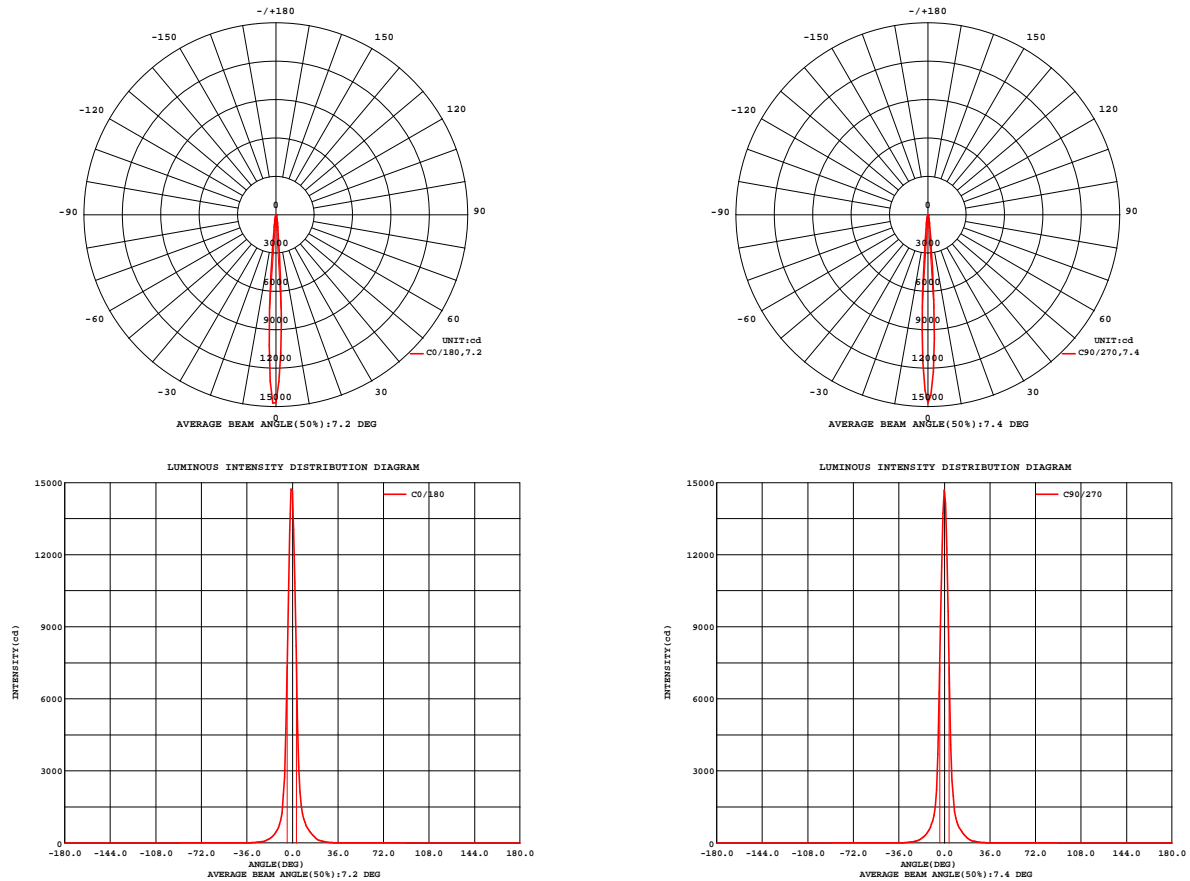


Fig. C0/C180

Fig. C90/C270

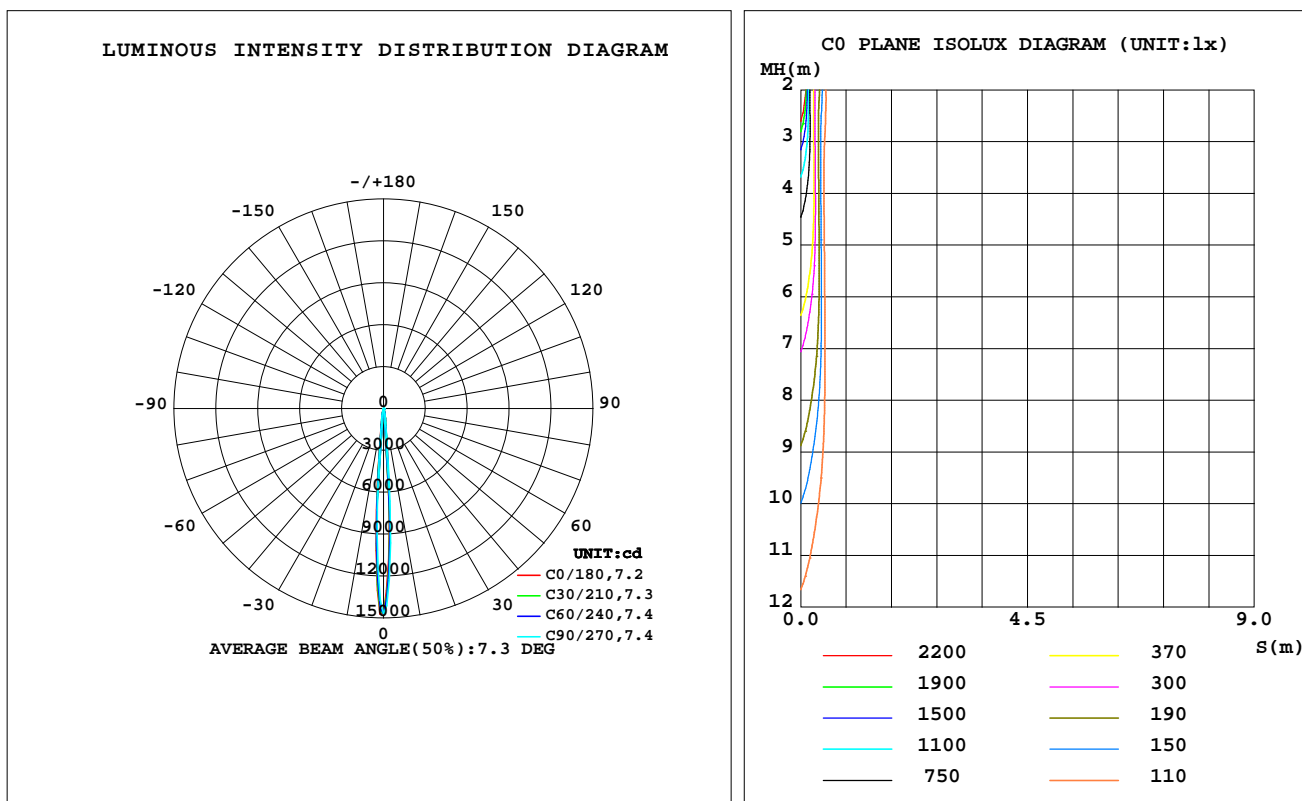
C Range: 0 - 360DEG  
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Temperature: 25.3 °C  
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Test Date: 2023-9-13

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Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: XHP35B-H0-0000-0D0UA430G Ra: 90  
LENS: PM-1069 6R  
DRIVER: EUP30A-1HMC-1 800mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.22V I:0.0565A P:11.898W PF:0.9530 Freq:49.99Hz Lamp Flux:670.75x1 lm		
NAME: 2118.574-ACOT-35	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2309131149
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 38.09 lm/W			
MODEL	CREE	I <sub>max</sub> (cd)	14997	S/MH(C0/180)	0.14
NOMINAL POWER(W)	12	LOR(%)	67.6	S/MH(C90/270)	0.12
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	453.24	UP,DN(C0-180)	0.0,34.9
NOMINAL FLUX(lm)	670.75	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,32.7
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	down(%)	67.6	CIBSE SHR MAX	0.10



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Temperature:25.3℃  
Operators:zoe  
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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:XHP35B-H0-0000-0D0UA430G Ra:90  
LENS:PM-1069 6R  
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30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

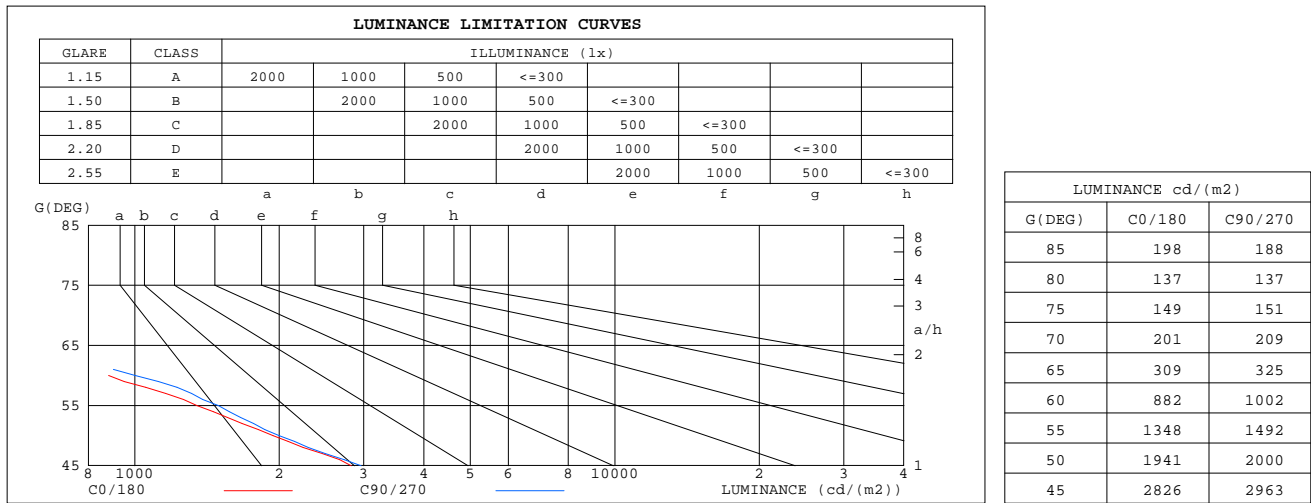
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	85.85	87.45	86.27	85.88	77.55	78.14	79.25	81.19	0- 10	313.7	313.7	69.2,46.8
20	14.60	15.06	14.50	13.69	12.09	11.96	12.08	12.84	10- 20	103.8	417.4	92.1,62.2
30	1.901	1.926	1.952	2.016	1.927	1.910	1.875	1.828	20- 30	26.01	443.4	97.8,66.1
40	0.4593	0.4482	0.4545	0.5136	0.5033	0.5053	0.4733	0.4639	30- 40	6.017	449.5	99.2,67
50	0.1696	0.1710	0.1804	0.2002	0.1994	0.1942	0.1887	0.1762	40- 50	2.349	451.8	99.7,67.4
60	0.0599	0.0649	0.0703	0.0776	0.0770	0.0687	0.0653	0.0639	50- 60	1.084	452.9	99.9,67.5
70	0.0093	0.0093	0.0100	0.0098	0.0100	0.0099	0.0100	0.0092	60- 70	0.2797	453.2	100,67.6
80	0.0032	0.0024	0.0033	0.0026	0.0028	0.0024	0.0033	0.0024	70- 80	0.0566	453.2	100,67.6
90	0	0	0	0	0	0	0	0	80- 90	0.0157	453.2	100,67.6
100	0	0	0	0	0	0	0	0	90-100	0	453.2	100,67.6
110	0	0	0	0	0	0	0	0	100-110	0	453.2	100,67.6
120	0	0	0	0	0	0	0	0	110-120	0	453.2	100,67.6
130	0	0	0	0	0	0	0	0	120-130	0	453.2	100,67.6
140	0	0	0	0	0	0	0	0	130-140	0	453.2	100,67.6
150	0	0	0	0	0	0	0	0	140-150	0	453.2	100,67.6
160	0	0	0	0	0	0	0	0	150-160	0	453.2	100,67.6
170	0	0	0	0	0	0	0	0	160-170	0	453.2	100,67.6
180	0	0	0	0	0	0	0	0	170-180	0	453.2	100,67.6
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

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Temperature:25.3℃  
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Interval: 1.0DEG  
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: EUP30A-1HMC-1 800mA  
30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:220.22V I:0.0565A P:11.898W PF:0.9530 Freq:49.99Hz Lamp Flux:670.75x1 lm		
NAME: 2118.574-ACOT-35	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2309131149
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:



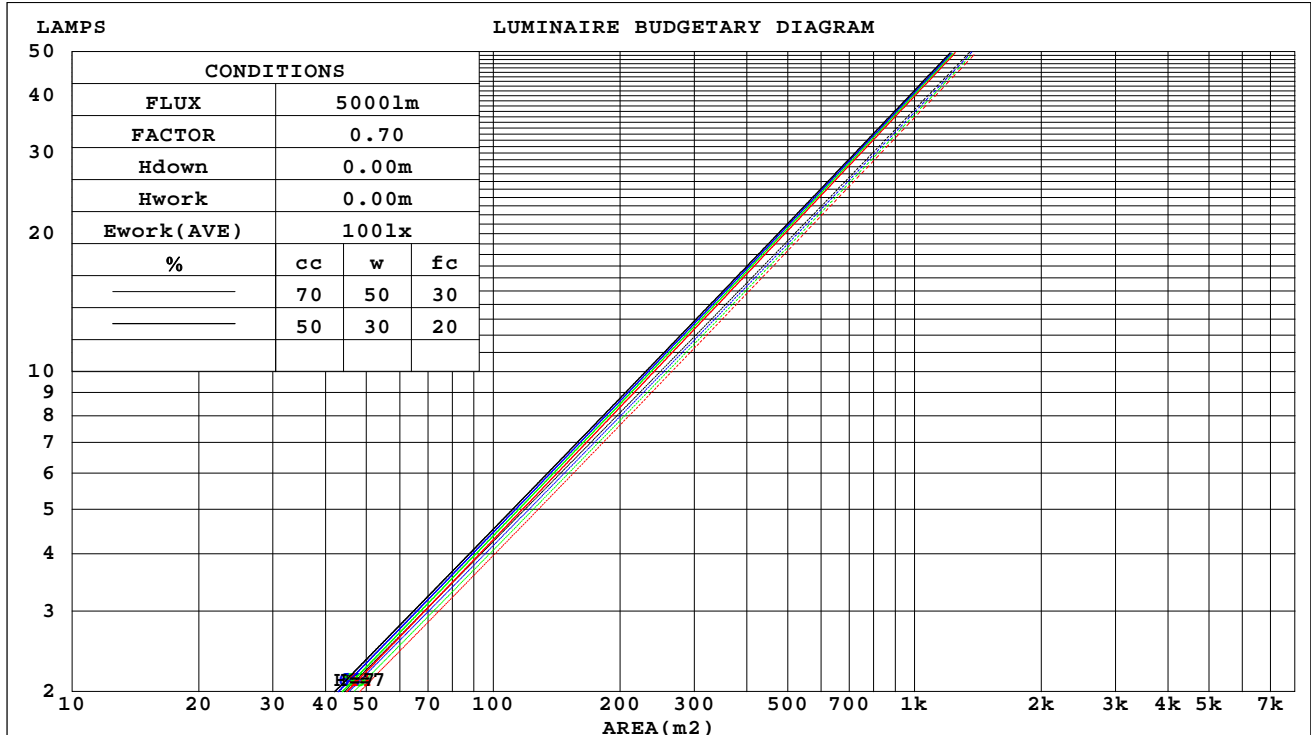
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2309131149
MFR.: RISE	SUR.: 0.00138474m2	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															



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Temperature:25.3℃  
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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:XHP35B-H0-0000-0D0UA430G Ra:90  
LENS:PM-1069 6R  
DRIVER: EUP30A-1HMC-1 800mA  
30minutes warm-up

### WEC AND CCEC

Test:U:220.22V I:0.0565A P:11.898W PF:0.9530 Freq:49.99Hz Lamp Flux:670.75x1 lm		
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SPEC.: 3000K	DIM.:	SERIAL No.: 2309131149
MFR.: RISE	SUR.: 0.00138474m2	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	.076	.043	.014	.072	.041	.013	.063	.036	.012	.056	.032	.010	.049	.028	.009	
2.0	.069	.038	.012	.065	.036	.011	.059	.033	.010	.052	.029	.009	.047	.026	.008	
3.0	.063	.033	.010	.060	.032	.010	.054	.029	.009	.049	.027	.008	.045	.025	.008	
4.0	.058	.030	.009	.055	.029	.009	.051	.027	.008	.047	.025	.008	.043	.023	.007	
5.0	.054	.027	.008	.052	.026	.008	.048	.025	.007	.044	.023	.007	.041	.022	.007	
6.0	.050	.025	.007	.048	.024	.007	.045	.023	.007	.042	.022	.006	.039	.021	.006	
7.0	.047	.023	.007	.045	.023	.006	.042	.021	.006	.040	.020	.006	.037	.019	.006	
8.0	.044	.021	.006	.043	.021	.006	.040	.020	.006	.038	.019	.006	.036	.018	.005	
9.0	.042	.020	.006	.040	.020	.006	.038	.019	.005	.036	.018	.005	.035	.018	.005	
10.0	.039	.019	.005	.038	.019	.005	.037	.018	.005	.035	.017	.005	.033	.017	.005	

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	.129	.129	.129	.110	.110	.110	.075	.075	.075	.043	.043	.043	.014	.014	.014		
1.0	.113	.107	.101	.096	.092	.087	.066	.063	.060	.038	.036	.035	.012	.012	.011		
2.0	.099	.090	.082	.085	.077	.071	.058	.053	.049	.034	.031	.029	.011	.010	.009		
3.0	.088	.076	.067	.076	.066	.058	.052	.046	.041	.030	.027	.024	.010	.009	.008		
4.0	.079	.066	.056	.068	.057	.049	.046	.040	.034	.027	.023	.020	.009	.008	.007		
5.0	.071	.057	.047	.061	.049	.041	.042	.035	.029	.024	.020	.017	.008	.007	.006		
6.0	.064	.050	.040	.055	.043	.035	.038	.030	.025	.022	.018	.015	.007	.006	.005		
7.0	.058	.044	.034	.050	.038	.030	.035	.027	.021	.020	.016	.013	.007	.005	.004		
8.0	.054	.039	.030	.046	.034	.026	.032	.024	.018	.019	.014	.011	.006	.005	.004		
9.0	.049	.035	.026	.042	.031	.023	.029	.022	.016	.017	.013	.010	.006	.004	.003		
10.0	.046	.032	.023	.039	.028	.020	.027	.020	.014	.016	.012	.008	.005	.004	.003		

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Interval: 1.0DEG  
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Humidity:65.0%  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.22V I:0.0565A P:11.898W PF:0.9530 Freq:49.99Hz Lamp Flux:670.75x1 lm										
NAME: 2118.574-ACOT-35					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2309131149		
MFR.: RISE					SUR.: 0.00138474m2			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	4.0	4.5	4.2	4.6	4.7	4.0	4.5	4.2	4.6	4.8
3H	3.9	4.3	4.1	4.5	4.7	3.9	4.4	4.2	4.6	4.7
4H	3.8	4.2	4.1	4.4	4.6	3.9	4.3	4.1	4.5	4.7
6H	3.7	4.2	4.0	4.4	4.6	3.8	4.2	4.1	4.4	4.7
8H	3.7	4.1	4.0	4.3	4.6	3.7	4.2	4.0	4.4	4.6
12H	3.7	4.0	3.9	4.3	4.6	3.7	4.1	4.0	4.4	4.6
4H 2H	3.9	4.3	4.1	4.5	4.7	3.9	4.4	4.2	4.6	4.8
3H	3.7	4.1	4.0	4.4	4.6	3.8	4.2	4.1	4.4	4.7
4H	3.7	4.0	4.0	4.3	4.6	3.7	4.1	4.0	4.4	4.7
6H	3.6	3.9	3.9	4.2	4.5	3.6	3.9	4.0	4.3	4.6
8H	3.5	3.8	3.9	4.2	4.5	3.6	3.9	3.9	4.2	4.6
12H	3.5	3.7	3.9	4.1	4.5	3.5	3.8	3.9	4.2	4.5
8H 4H	3.5	3.8	3.9	4.2	4.5	3.6	3.9	3.9	4.2	4.6
6H	3.4	3.7	3.8	4.0	4.4	3.4	3.7	3.9	4.1	4.5
8H	3.3	3.6	3.8	4.0	4.4	3.4	3.6	3.8	4.0	4.5
12H	3.3	3.5	3.7	3.9	4.4	3.3	3.5	3.8	4.0	4.4
12H 4H	3.4	3.7	3.8	4.1	4.5	3.5	3.8	3.9	4.1	4.5
6H	3.3	3.6	3.8	4.0	4.4	3.4	3.6	3.8	4.0	4.5
8H	3.3	3.5	3.7	3.9	4.4	3.3	3.5	3.8	4.0	4.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / - 4.3					+ 2.4 / - 3.7				
1.5H	+ 3.8 / - 2.6					+ 3.6 / - 2.4				
2.0H	+ 3.5 / - 7.9					+ 3.6 / - 8.0				

CIE Pub.117, 670.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)  
Area: 0.00138474 m2

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30minutes warm-up



### UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

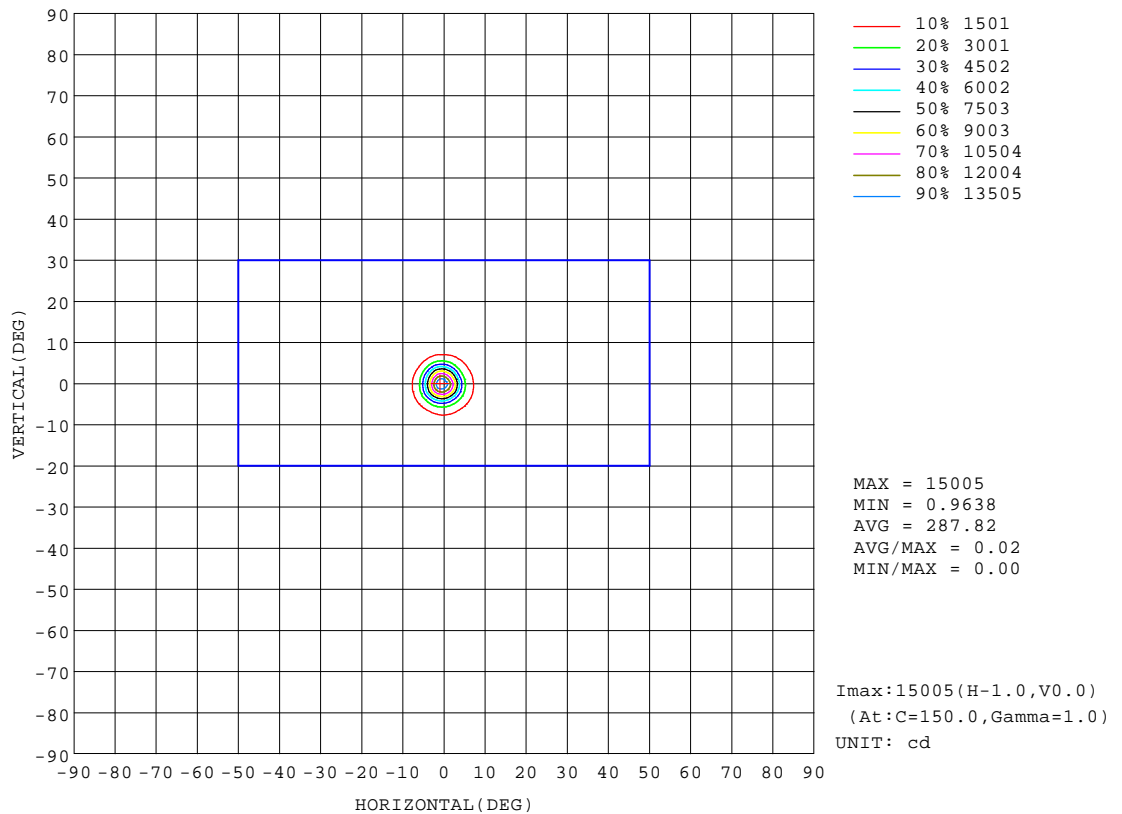
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	58	55	61	58	55	61	57	55	53
0.80	66	63	60	66	62	60	65	62	60	58
1.00	69	65	63	68	65	63	67	65	63	60
1.25	71	68	66	70	68	66	69	67	65	63
1.50	73	70	68	72	69	68	71	68	67	64
2.00	74	72	70	73	71	69	72	70	68	65
2.50	75	73	71	74	72	70	72	70	69	65
3.00	76	74	72	75	73	72	73	71	70	66
4.00	77	76	74	76	75	73	74	73	72	67
5.00	78	77	76	77	76	75	74	73	73	68
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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MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

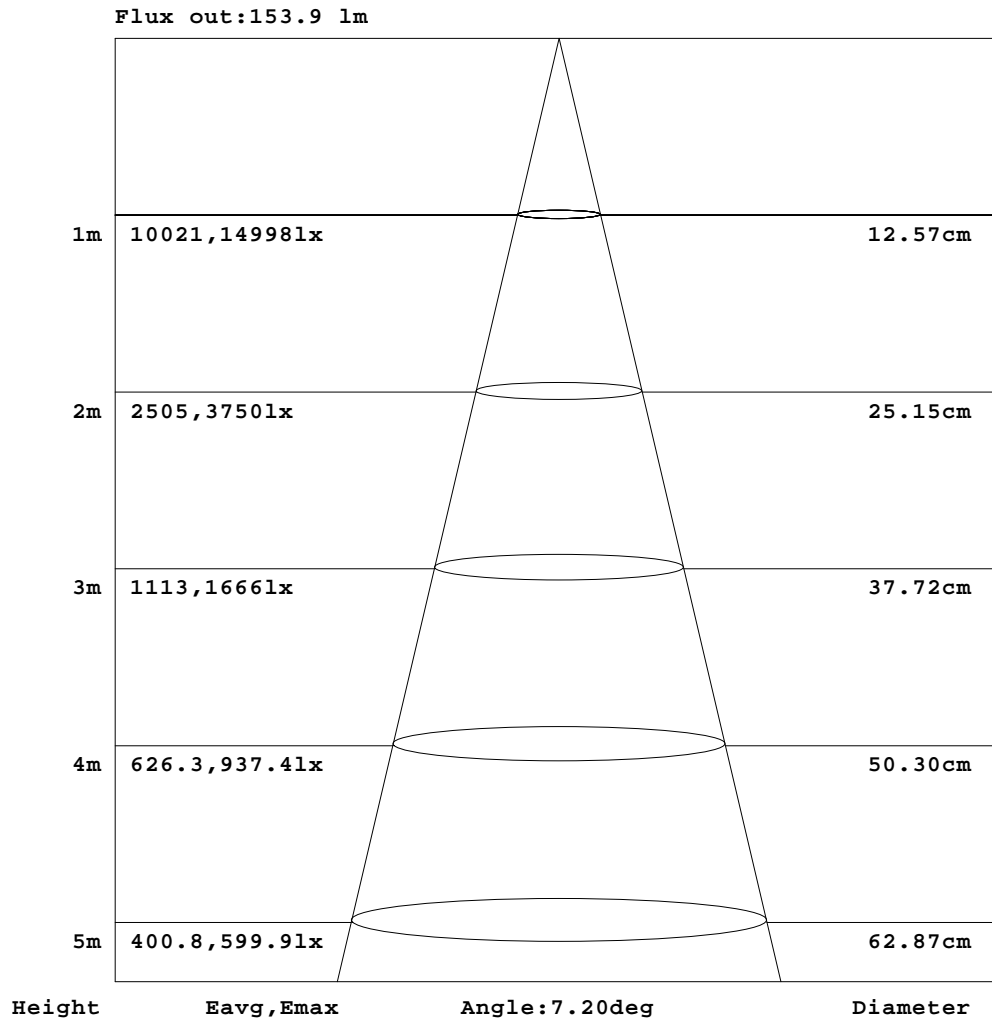


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## AAI Figure

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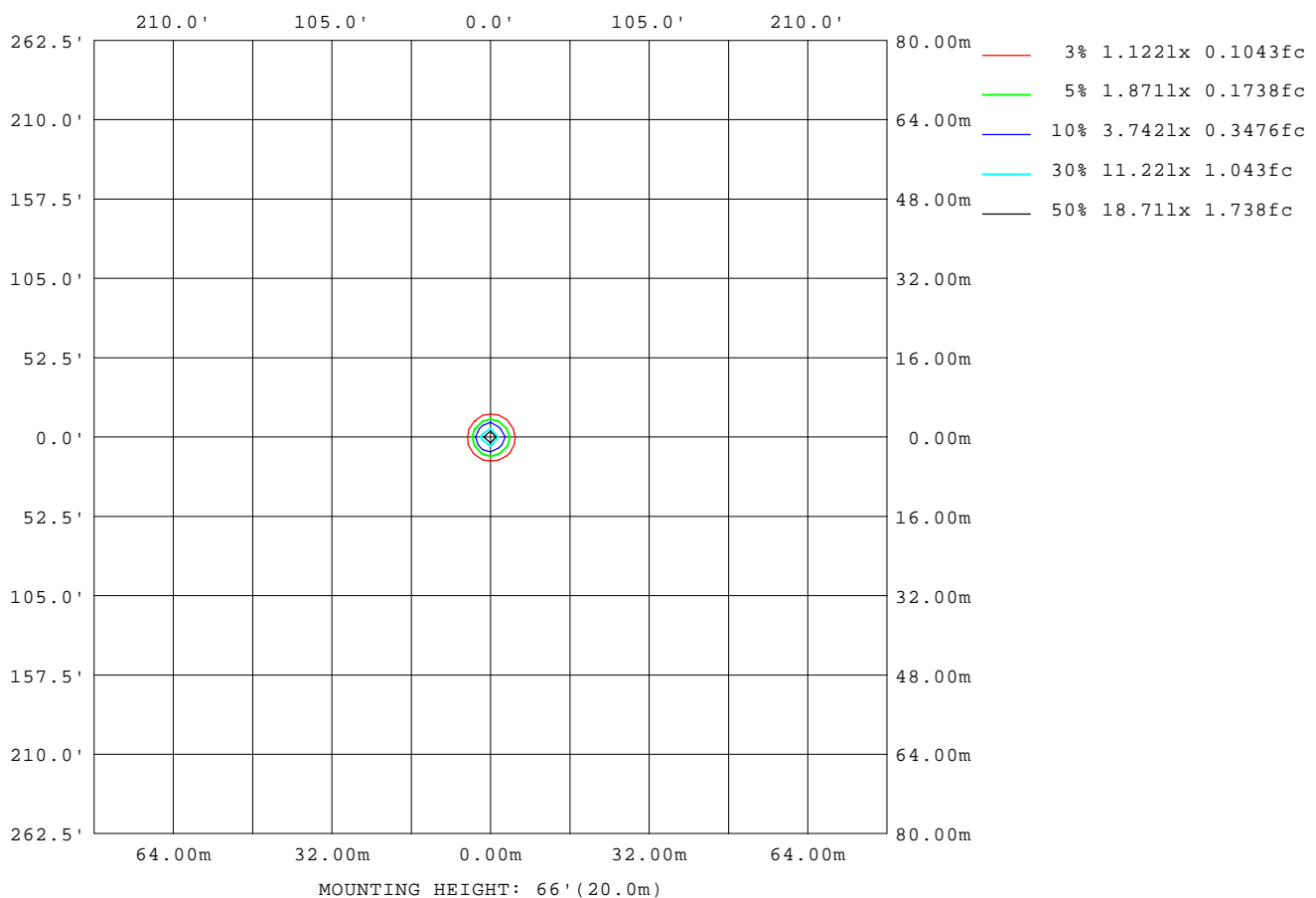
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.22V I:0.0565A P:11.898W PF:0.9530 Freq:49.99Hz Lamp Flux:670.75x1 lm		
NAME: 2118.574-ACOT-35	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2309131149
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:zoe  
Test Date:2023-9-13

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:XHP35B-H0-0000-0D0UA430G Ra:90  
LENS:PM-1069 6R  
DRIVER: EUP30A-1HMC-1 800mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.22V I:0.0565A P:11.898W PF:0.9530 Freq:49.99Hz Lamp Flux:670.75x1 lm		
NAME: 2118.574-ACOT-35	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2309131149
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

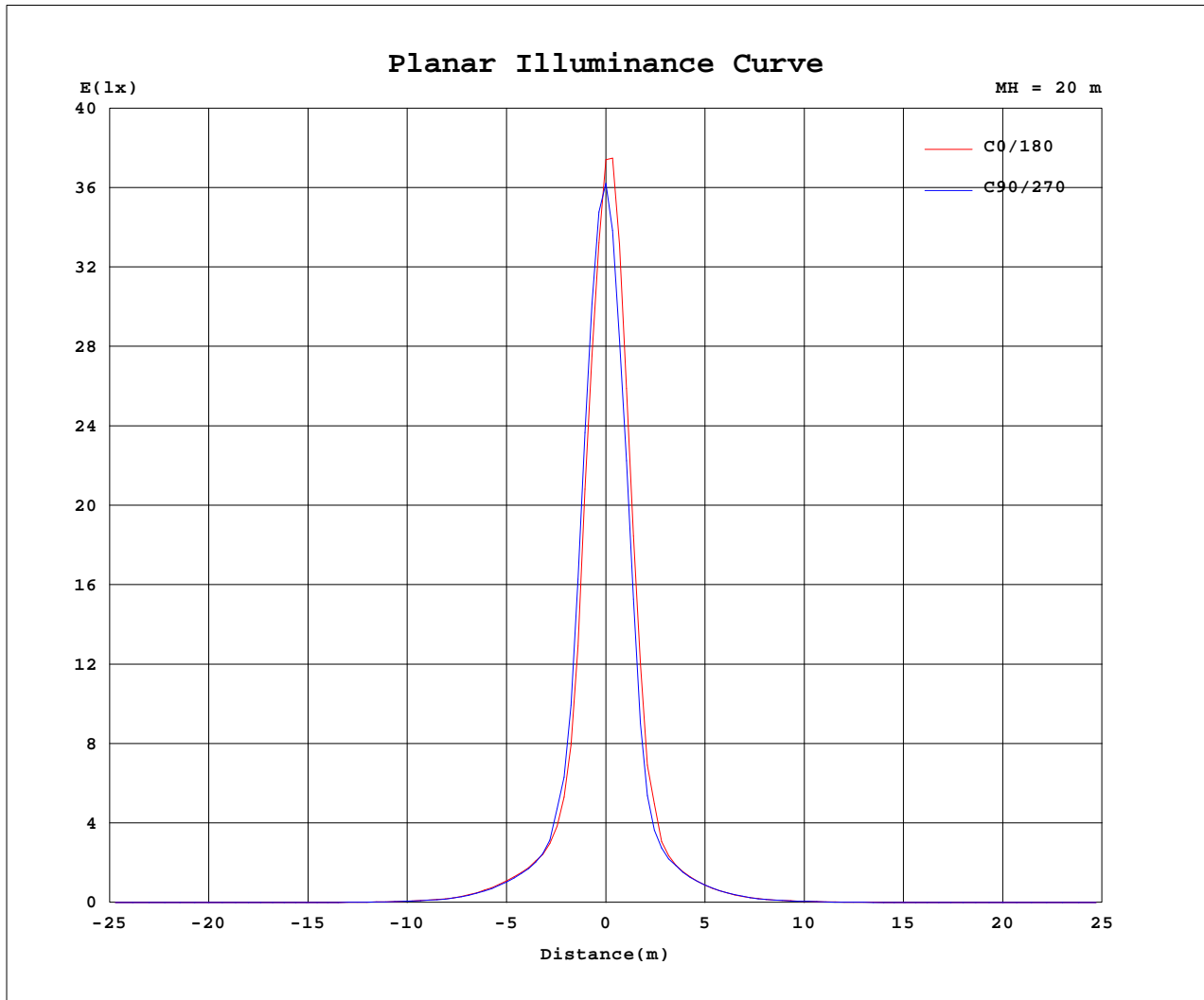
AvgL	cd/m2
L_0~180(65)av	323
L_0~180(75)av	147
L_0~180(85)av	174
L_90~270(65)av	338
L_90~270(75)av	151
L_90~270(85)av	172
L_45(65)av	327
L_45(75)av	131
L_45(85)av	80

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-9-13

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:XHP35B-H0-0000-0D0UA430G Ra:90  
LENS:PM-1069 6R  
DRIVER: EUP30A-1HMC-1 800mA  
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: 2023-9-13

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: XHP35B-H0-0000-0D0UA430G Ra:90  
 LENS: PM-1069 6R  
 DRIVER: EUP30A-1HMC-1 800mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.22V I:0.0565A P:11.898W PF:0.9530 Freq:49.99Hz Lamp Flux:670.75x1 lm		
NAME: 2118.574-ACOT-35	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2309131149
MFR.: RISE	SUR.: 0.00138474m2	Shielding Angle:

Table--1

UNIT: X10cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469	1469						
5	316	341	357	408	469	514	478	455	443	370	316	295						
10	85.9	87.0	87.9	86.3	88.1	83.7	77.6	79.4	76.9	79.3	80.1	82.3						
15	40.2	43.0	40.2	39.4	37.9	35.7	31.6	31.5	32.2	33.1	36.1	36.9						
20	14.6	15.3	14.8	14.5	13.7	13.7	12.1	11.8	12.1	12.1	12.5	13.2						
25	5.75	5.85	5.74	5.69	5.53	5.54	4.86	4.78	4.99	4.91	5.09	5.34						
30	1.90	1.99	1.86	1.95	1.96	2.07	1.93	1.86	1.96	1.87	1.86	1.79						
35	0.89	0.87	0.84	0.85	0.94	1.01	0.95	0.92	0.90	0.86	0.85	0.87						
40	0.46	0.45	0.44	0.45	0.50	0.53	0.50	0.51	0.50	0.47	0.46	0.46						
45	0.27	0.27	0.28	0.29	0.31	0.33	0.30	0.31	0.31	0.30	0.29	0.27						
50	0.17	0.17	0.17	0.18	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.17						
55	0.11	0.11	0.11	0.12	0.13	0.14	0.13	0.12	0.12	0.12	0.11	0.11						
60	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06						
65	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02						
70	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
75	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00						
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
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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