

Luminaire Photograph



Light Output Ratio:	80.3%	
Luminaire Power:	8.273 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

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

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: CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

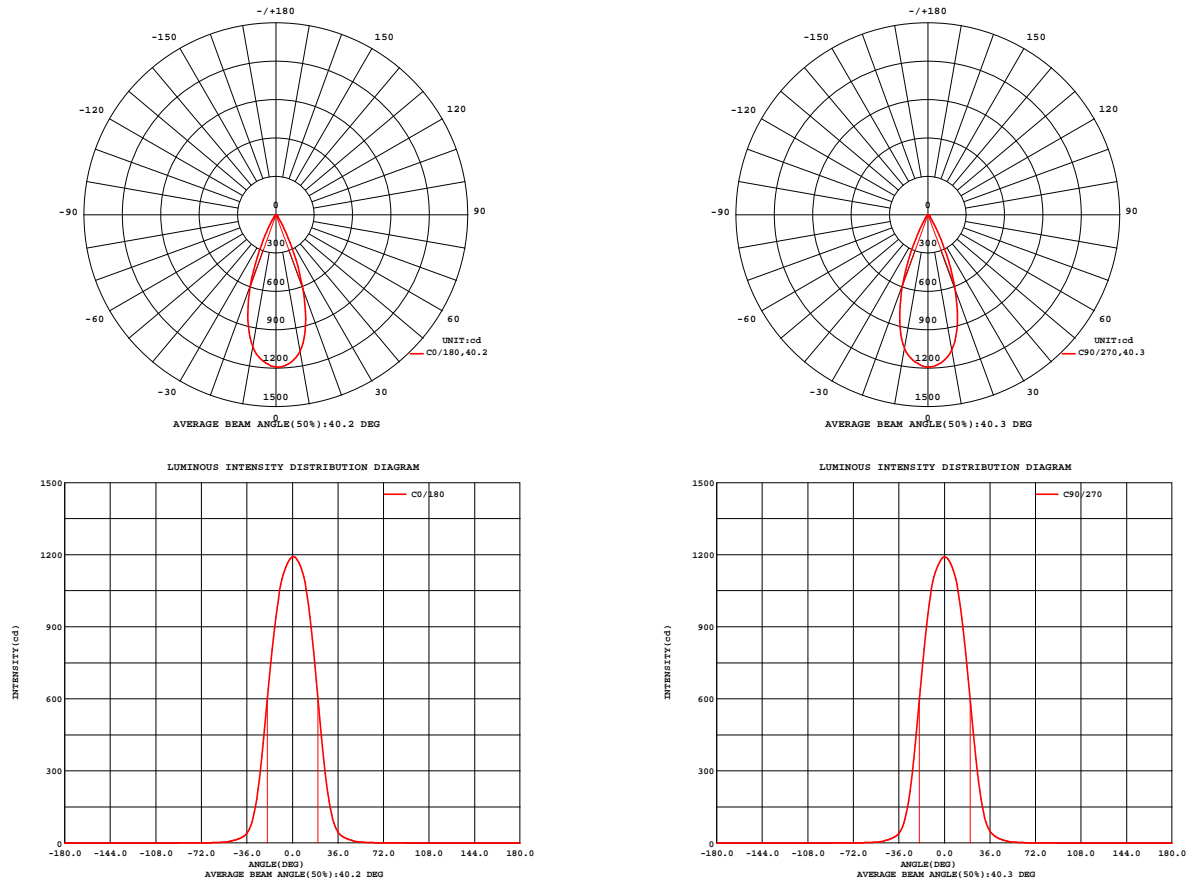


Fig. C0/C180

Fig. C90/C270

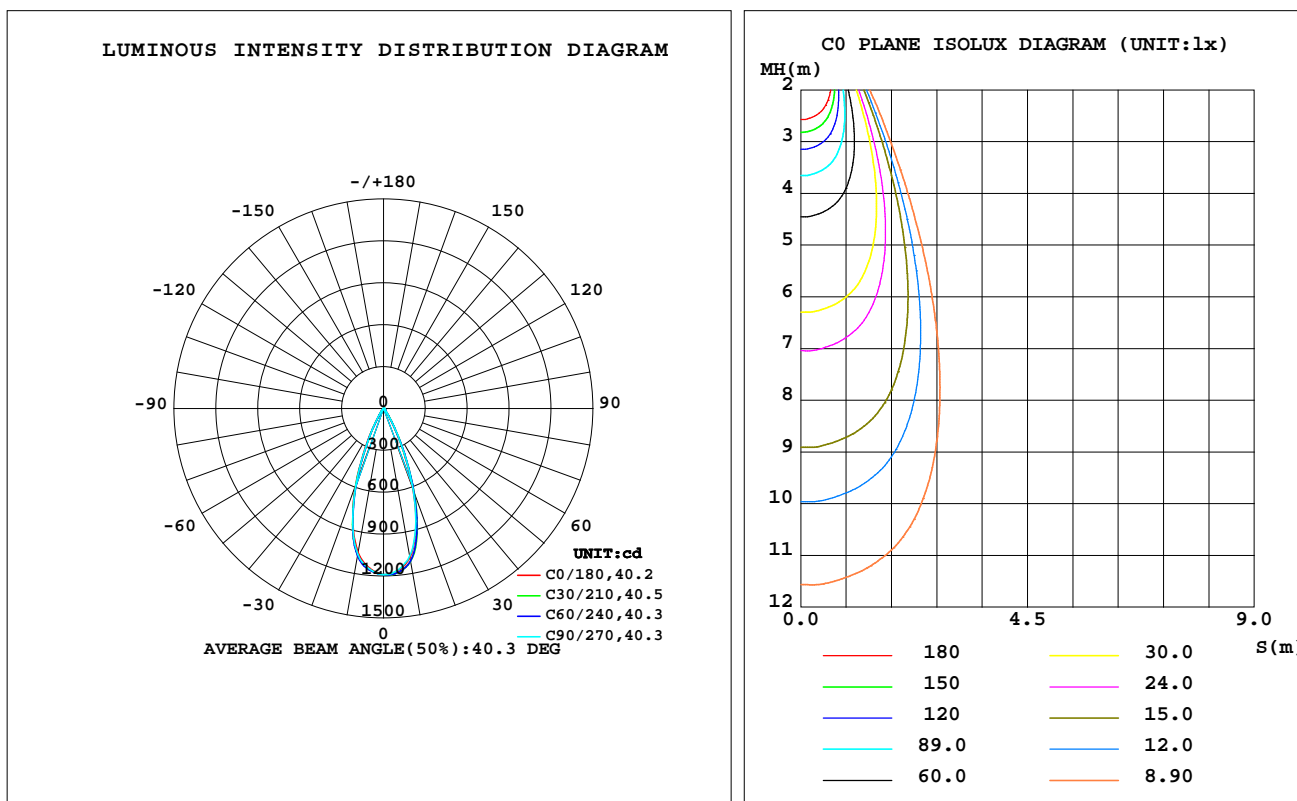
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
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Test Date: 2023-8-8

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Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.21V I:0.0398A P:8.2735W PF:0.9408 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081001
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.58 lm/W			
MODEL	CREE	I _{max} (cd)	1193	S/MH(C0/180)	0.62
NOMINAL POWER(W)	8	LOR(%)	80.3	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	550.82	η UP,DN(C0-180)	0.0,41.5
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,38.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	80.3	CIBSE SHR MAX	0.65



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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	1085	1111	1076	1055	1050	1071	1061	1060	0- 10	108.1	108.1	19.6,15.8
20	617.2	643.6	624.7	599.9	586.8	573.2	579.2	590.0	10- 20	236.9	344.9	62.6,50.3
30	144.3	156.9	152.2	143.1	125.4	117.5	121.4	130.1	20- 30	150.8	495.7	90,72.3
40	26.12	28.91	28.57	26.09	22.78	22.13	22.95	23.96	30- 40	38.19	533.9	96.9,77.9
50	6.514	8.902	6.825	8.279	5.854	7.498	5.573	7.606	40- 50	11.37	545.3	99,79.5
60	1.965	2.483	1.936	2.361	1.899	2.216	1.812	2.232	50- 60	3.588	548.9	99.6,80.1
70	0.7054	0.8432	0.6672	0.8219	0.6545	0.8056	0.6407	0.8255	60- 70	1.362	550.2	99.9,80.2
80	0.2044	0.2221	0.1795	0.2060	0.1780	0.2165	0.1998	0.2310	70- 80	0.4418	550.7	100,80.3
90	0	0	0	0	0	0	0	0	80- 90	0.1398	550.8	100,80.3
100	0	0	0	0	0	0	0	0	90-100	0	550.8	100,80.3
110	0	0	0	0	0	0	0	0	100-110	0	550.8	100,80.3
120	0	0	0	0	0	0	0	0	110-120	0	550.8	100,80.3
130	0	0	0	0	0	0	0	0	120-130	0	550.8	100,80.3
140	0	0	0	0	0	0	0	0	130-140	0	550.8	100,80.3
150	0	0	0	0	0	0	0	0	140-150	0	550.8	100,80.3
160	0	0	0	0	0	0	0	0	150-160	0	550.8	100,80.3
170	0	0	0	0	0	0	0	0	160-170	0	550.8	100,80.3
180	0	0	0	0	0	0	0	0	170-180	0	550.8	100,80.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LENS: PM-1084B 36R
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.21V I:0.0398A P:8.2735W PF:0.9408 Freq:49.99Hz
Lamp Flux:685.66x1 lm

NAME: 2214.411-1-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

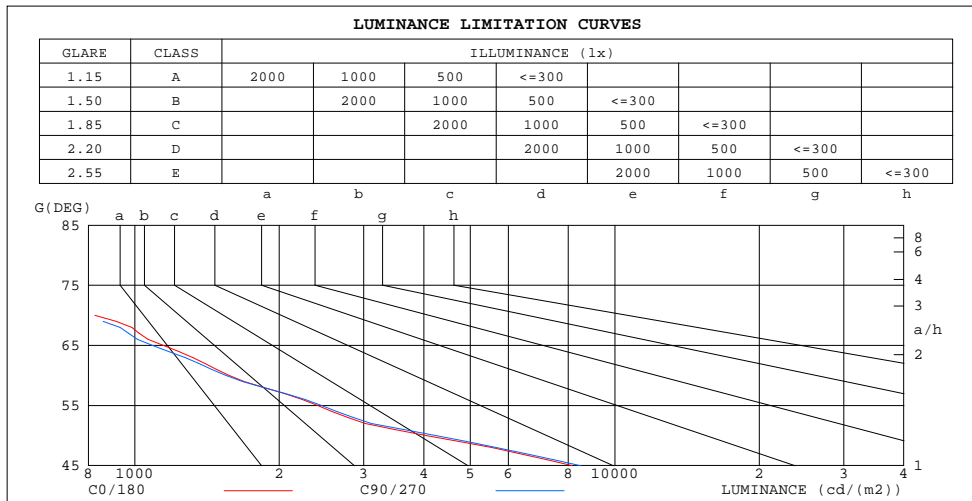
DIM.:

SERIAL No.: 2308081001

MFR.: RISE

SUR.: 0.0025m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	710	627
80	471	414
75	551	517
70	825	780
65	1147	1088
60	1573	1549
55	2405	2451
50	4055	4247
45	8166	8484

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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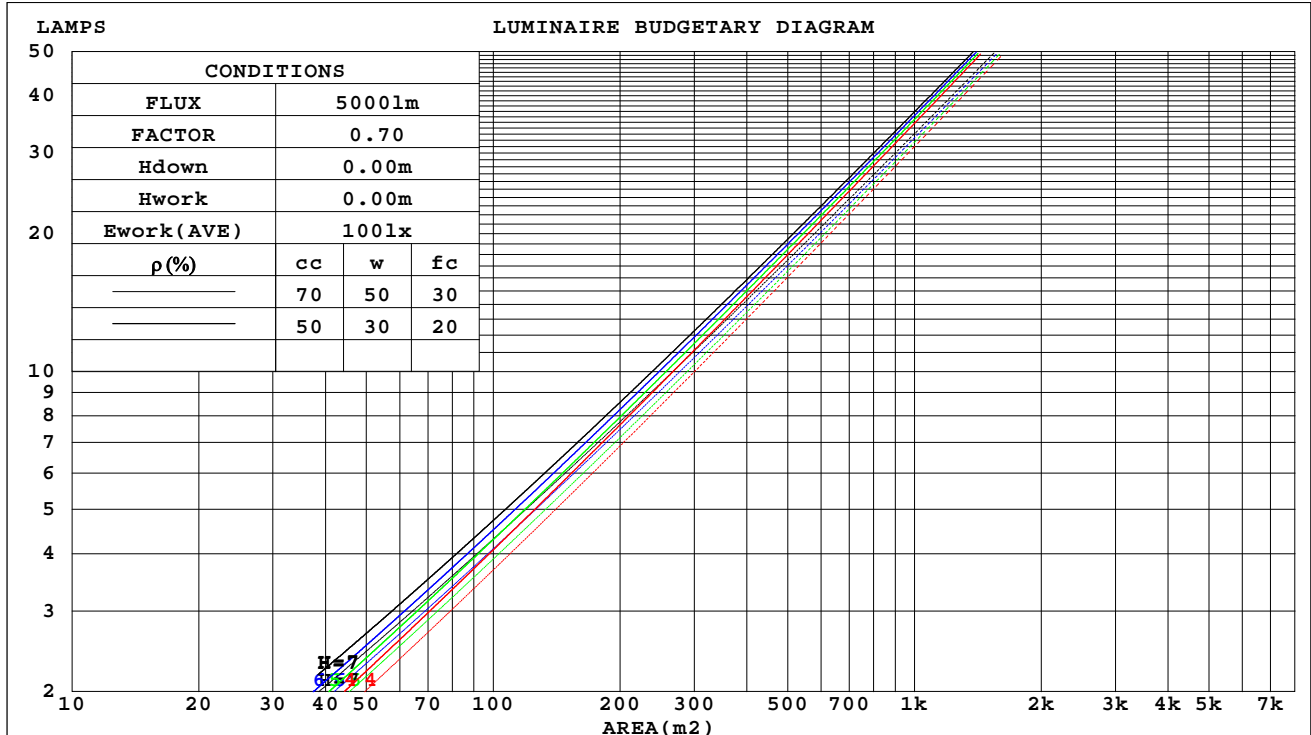
SERIAL No.: 2308081001

MFR.: RISE

SUR.: 0.0025m2

Shielding Angle:

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	.96	.96	.96	.93	.93	.93	.89	.89	.89	.85	.85	.85	.82	.82	.82	.80
1.0	.90	.88	.87	.88	.87	.85	.85	.84	.83	.82	.81	.80	.79	.79	.78	.77
2.0	.85	.82	.80	.84	.81	.79	.81	.79	.77	.79	.77	.76	.76	.75	.74	.73
3.0	.80	.77	.74	.79	.76	.74	.77	.75	.73	.75	.73	.72	.74	.72	.70	.69
4.0	.76	.73	.70	.75	.72	.69	.74	.71	.69	.72	.70	.68	.71	.69	.67	.66
5.0	.73	.69	.66	.72	.68	.66	.71	.68	.65	.69	.67	.65	.68	.66	.64	.63
6.0	.69	.65	.63	.69	.65	.62	.68	.64	.62	.67	.64	.62	.66	.63	.61	.60
7.0	.66	.62	.60	.66	.62	.59	.65	.62	.59	.64	.61	.59	.63	.61	.59	.58
8.0	.64	.60	.57	.63	.59	.57	.62	.59	.57	.62	.59	.56	.61	.58	.56	.55
9.0	.61	.57	.54	.61	.57	.54	.60	.57	.54	.59	.56	.54	.59	.56	.54	.53
10.0	.59	.55	.52	.58	.55	.52	.58	.54	.52	.57	.54	.52	.57	.54	.52	.51



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WEC AND CCEC

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NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081001
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	.124	.071	.022	.119	.068	.022	.109	.063	.020	.100	.058	.018	.091	.053	.017	
2.0	.117	.064	.020	.113	.062	.019	.104	.058	.018	.097	.054	.017	.089	.051	.016	
3.0	.110	.059	.018	.107	.057	.017	.099	.054	.016	.093	.051	.016	.087	.048	.015	
4.0	.104	.054	.016	.101	.053	.016	.095	.050	.015	.090	.048	.015	.084	.046	.014	
5.0	.099	.050	.015	.096	.049	.014	.091	.047	.014	.086	.046	.014	.082	.044	.013	
6.0	.094	.047	.014	.092	.046	.013	.087	.045	.013	.083	.043	.013	.079	.042	.012	
7.0	.090	.044	.013	.088	.044	.012	.084	.042	.012	.080	.041	.012	.077	.040	.012	
8.0	.086	.042	.012	.084	.041	.012	.081	.040	.012	.077	.039	.011	.074	.038	.011	
9.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.075	.038	.011	.072	.037	.011	
10.0	.079	.038	.011	.078	.038	.010	.075	.037	.010	.072	.036	.010	.070	.035	.010	

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	.153	.153	.153	.131	.131	.131	.089	.089	.089	.051	.051	.051	.016	.016	.016		
1.0	.136	.127	.118	.117	.109	.101	.080	.075	.070	.046	.043	.041	.015	.014	.013		
2.0	.123	.107	.093	.105	.092	.080	.072	.063	.056	.042	.037	.033	.013	.012	.011		
3.0	.112	.091	.075	.096	.079	.065	.066	.055	.045	.038	.032	.027	.012	.010	.009		
4.0	.102	.079	.061	.088	.068	.053	.060	.048	.037	.035	.028	.022	.011	.009	.007		
5.0	.095	.069	.051	.081	.060	.044	.056	.042	.031	.032	.025	.018	.010	.008	.006		
6.0	.088	.062	.043	.076	.053	.037	.052	.037	.026	.030	.022	.016	.010	.007	.005		
7.0	.082	.055	.036	.071	.048	.032	.049	.034	.022	.028	.020	.013	.009	.006	.004		
8.0	.078	.050	.031	.067	.043	.027	.046	.030	.019	.027	.018	.011	.009	.006	.004		
9.0	.073	.046	.027	.063	.040	.024	.044	.028	.017	.025	.016	.010	.008	.005	.003		
10.0	.070	.042	.024	.060	.036	.021	.042	.026	.015	.024	.015	.009	.008	.005	.003		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308081001		
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	13.9	14.6	14.1	14.8	15.0	14.0	14.8	14.2	15.0	15.1
3H	13.7	14.5	14.0	14.7	14.9	13.9	14.6	14.2	14.8	15.0
4H	13.7	14.4	13.9	14.6	14.8	13.8	14.5	14.1	14.7	15.0
6H	13.6	14.2	13.9	14.5	14.7	13.8	14.4	14.0	14.6	14.9
8H	13.6	14.2	13.9	14.4	14.7	13.7	14.3	14.0	14.6	14.8
12H	13.5	14.1	13.8	14.4	14.6	13.7	14.3	14.0	14.5	14.8
4H 2H	13.7	14.4	13.9	14.6	14.8	13.8	14.5	14.1	14.7	15.0
3H	13.6	14.2	13.9	14.4	14.7	13.7	14.3	14.0	14.6	14.9
4H	13.5	14.0	13.8	14.3	14.6	13.6	14.2	14.0	14.5	14.8
6H	13.4	13.9	13.8	14.2	14.6	13.6	14.0	13.9	14.4	14.7
8H	13.4	13.8	13.7	14.2	14.5	13.5	14.0	13.9	14.3	14.7
12H	13.3	13.7	13.7	14.1	14.5	13.5	13.9	13.9	14.2	14.6
8H 4H	13.4	13.8	13.7	14.1	14.5	13.5	14.0	13.9	14.3	14.7
6H	13.3	13.6	13.7	14.0	14.4	13.4	13.8	13.8	14.2	14.6
8H	13.2	13.5	13.7	14.0	14.4	13.4	13.7	13.8	14.1	14.5
12H	13.2	13.5	13.6	13.9	14.4	13.3	13.6	13.8	14.0	14.5
12H 4H	13.3	13.7	13.7	14.1	14.5	13.5	13.9	13.9	14.2	14.6
6H	13.2	13.5	13.7	13.9	14.4	13.4	13.7	13.8	14.1	14.5
8H	13.2	13.4	13.6	13.9	14.4	13.3	13.6	13.8	14.0	14.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / - 6.2					+ 2.8 / - 6.7				
1.5H	+ 4.1 / - 5.1					+ 4.4 / - 5.3				
2.0H	+ 4.6 / - 4.4					+ 4.7 / - 4.6				

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.0025 m2

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UTILIZATION FACTORS TABLE

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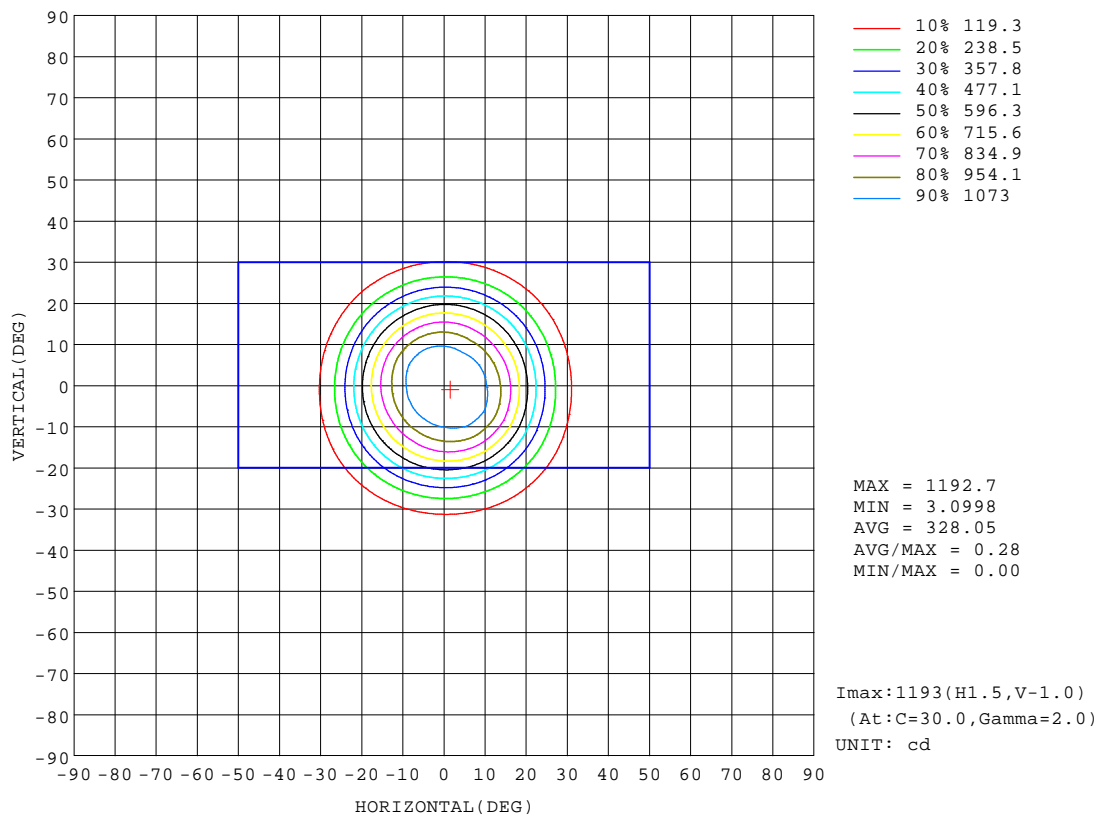
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	64	72	67	64	71	67	64	62
0.80	78	73	71	77	73	71	76	73	70	67
1.00	81	77	74	80	76	74	79	76	73	70
1.25	84	80	77	83	80	77	82	79	77	73
1.50	86	82	80	85	82	80	83	81	79	75
2.00	88	85	82	87	84	82	85	82	81	76
2.50	89	86	84	88	85	83	85	83	82	77
3.00	90	88	86	89	87	85	86	84	83	78
4.00	92	90	88	90	88	87	87	86	85	79
5.00	93	91	90	91	90	88	88	87	86	80
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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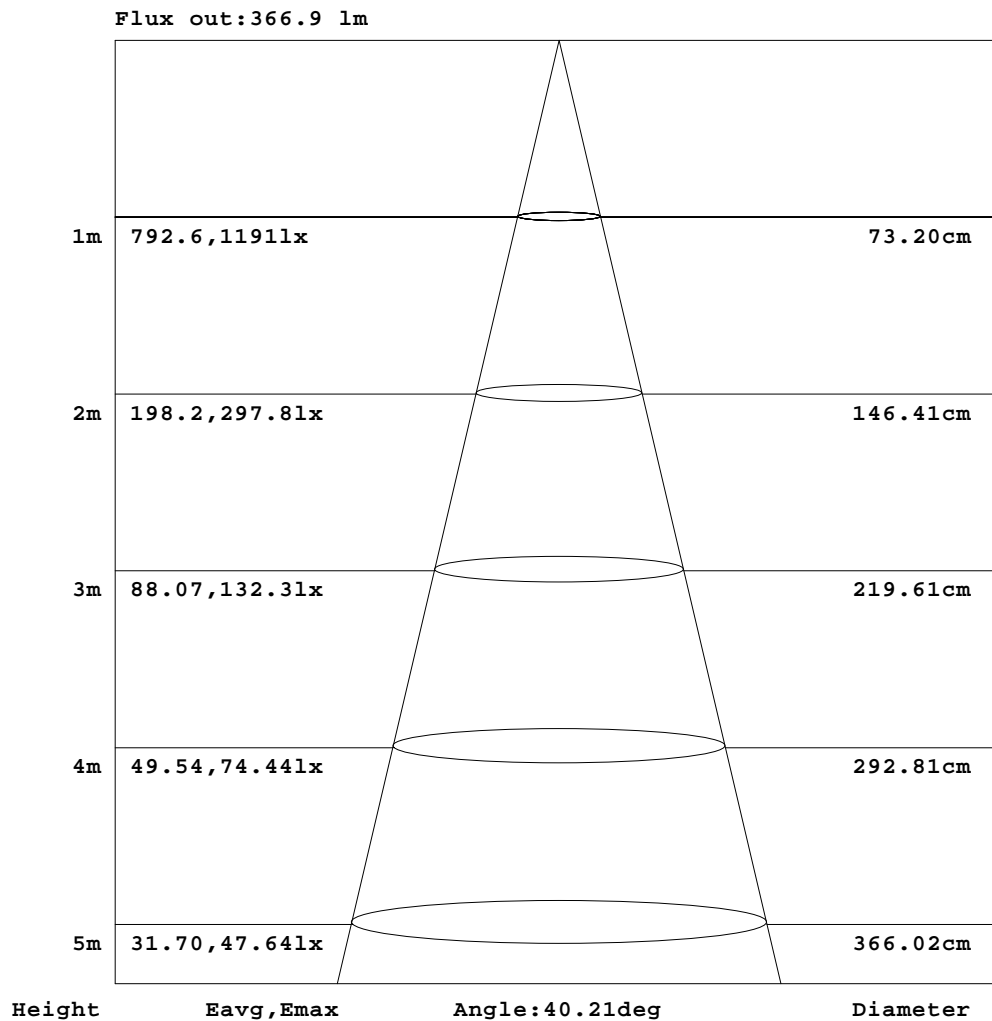


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LENS: PM-1084B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

AAI Figure

Test:U:220.21V I:0.0398A P:8.2735W PF:0.9408 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081001
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:



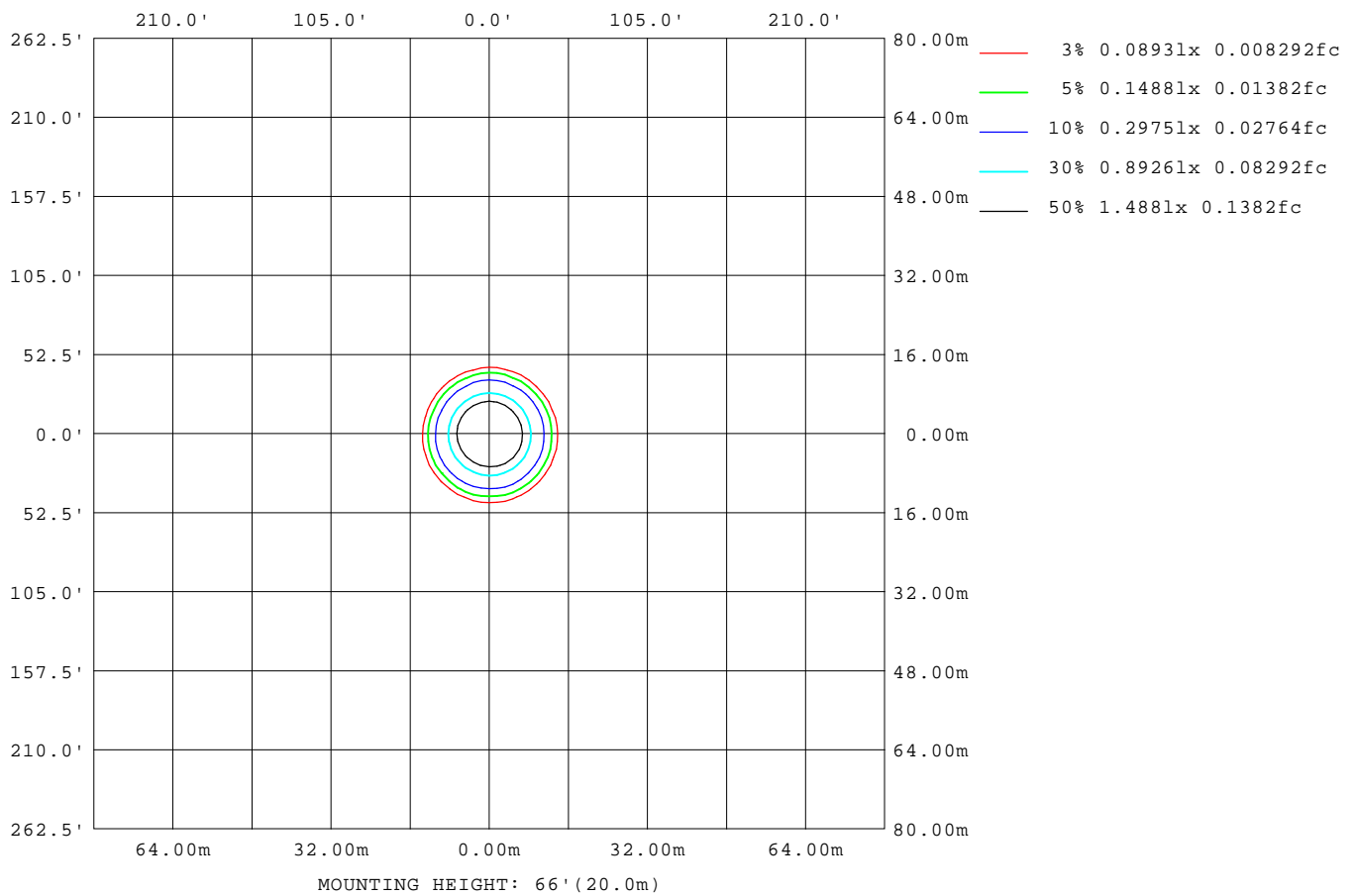
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.21V I:0.0398A P:8.2735W PF:0.9408 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081001
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:2023-8-8

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.21V I:0.0398A P:8.2735W PF:0.9408 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081001
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

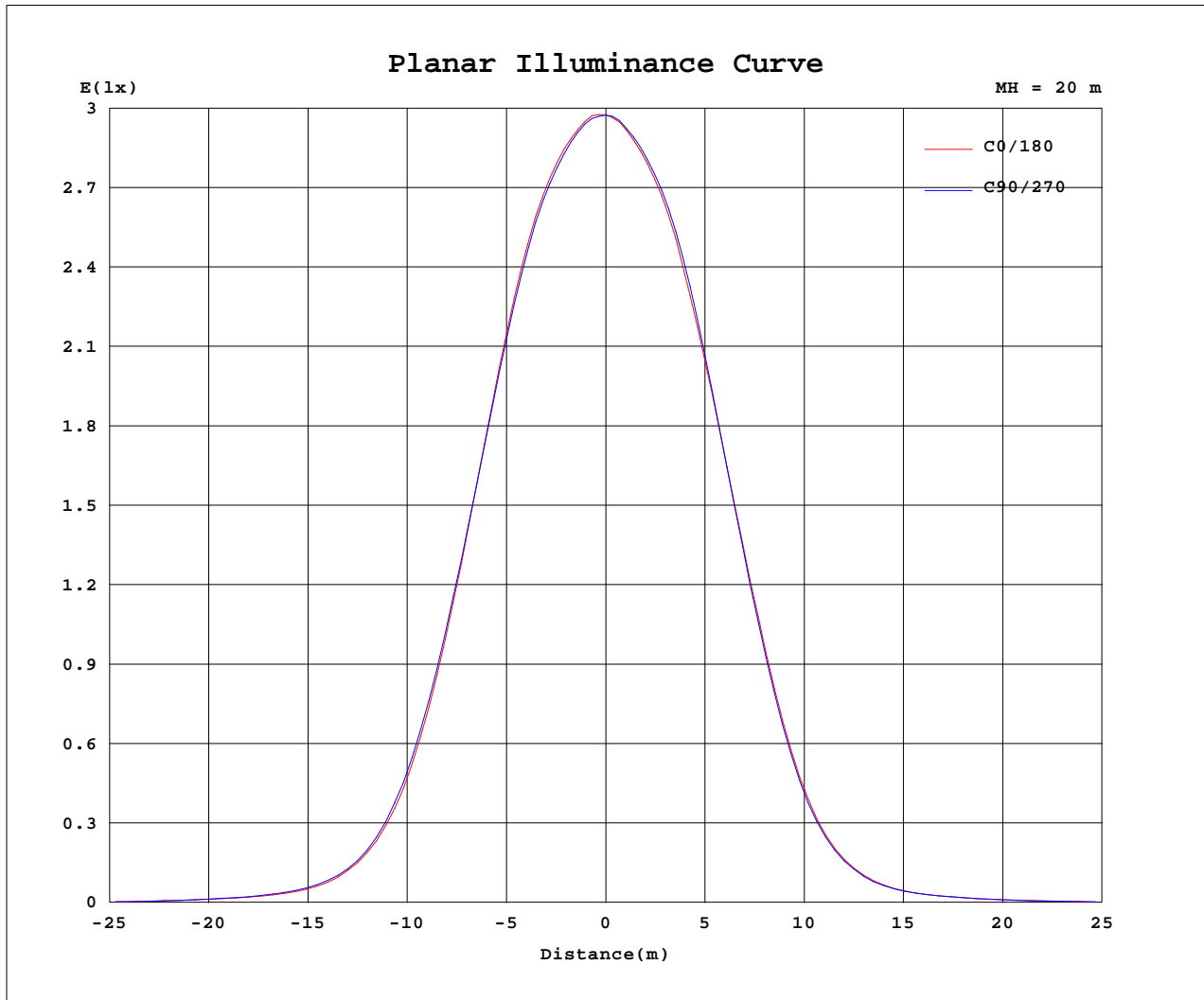
AvgL	cd/m2
L_0~180(65)av	1127
L_0~180(75)av	528
L_0~180(85)av	661
L_90~270(65)av	1067
L_90~270(75)av	524
L_90~270(85)av	662
L_45(65)av	1383
L_45(75)av	643
L_45(85)av	692

Standard: GB/T 29293-2012

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

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: 9290 028 088 350mA
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: 2023-8-8

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: CXB1304-0000-000F0UA430G Ra:90
 LENS: PM-1084B 36R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.21V I:0.0398A P:8.2735W PF:0.9408 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081001
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	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190						
5	1167	1180	1179	1163	1151	1144	1148	1159	1162	1155	1150	1156						
10	1085	1113	1110	1076	1060	1050	1050	1070	1072	1061	1051	1070						
15	897	930	924	889	857	846	852	859	857	858	851	863						
20	617	644	643	625	605	594	587	577	569	579	585	595						
25	336	357	358	350	339	327	310	297	292	302	310	320						
30	144	156	158	152	146	140	125	118	117	121	126	134						
35	56.5	61.8	64.1	61.0	58.5	54.9	48.5	45.8	45.9	46.8	49.1	52.2						
40	26.1	28.3	29.5	28.6	27.2	25.0	22.8	22.1	22.2	23.0	23.6	24.3						
45	14.4	16.2	16.5	15.0	15.3	14.5	12.8	13.3	13.1	12.5	13.8	14.3						
50	6.51	8.92	8.88	6.83	8.55	8.01	5.85	7.70	7.29	5.57	7.50	7.71						
55	3.45	4.22	4.02	3.51	4.06	3.67	3.22	3.68	3.37	3.06	3.54	3.55						
60	1.97	2.55	2.41	1.94	2.43	2.29	1.90	2.29	2.14	1.81	2.22	2.24						
65	1.21	1.52	1.43	1.15	1.43	1.44	1.17	1.43	1.37	1.10	1.39	1.41						
70	0.71	0.87	0.82	0.67	0.81	0.84	0.65	0.83	0.79	0.64	0.81	0.84						
75	0.36	0.43	0.41	0.33	0.40	0.39	0.33	0.40	0.40	0.34	0.42	0.42						
80	0.20	0.23	0.21	0.18	0.21	0.20	0.18	0.21	0.22	0.20	0.23	0.23						
85	0.15	0.16	0.15	0.14	0.14	0.14	0.13	0.14	0.16	0.15	0.16	0.16						
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
Test Speed: HIGH
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Operators:zoe
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