

Luminaire Photograph



Light Output Ratio:	64.4%	
Luminaire Power:	10.3 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: 2023-11-15

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: BXR-V-DR-1830G-0600-B-23 Ra: 90
LENS: PM-1103B 36R+DIFFUSER
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

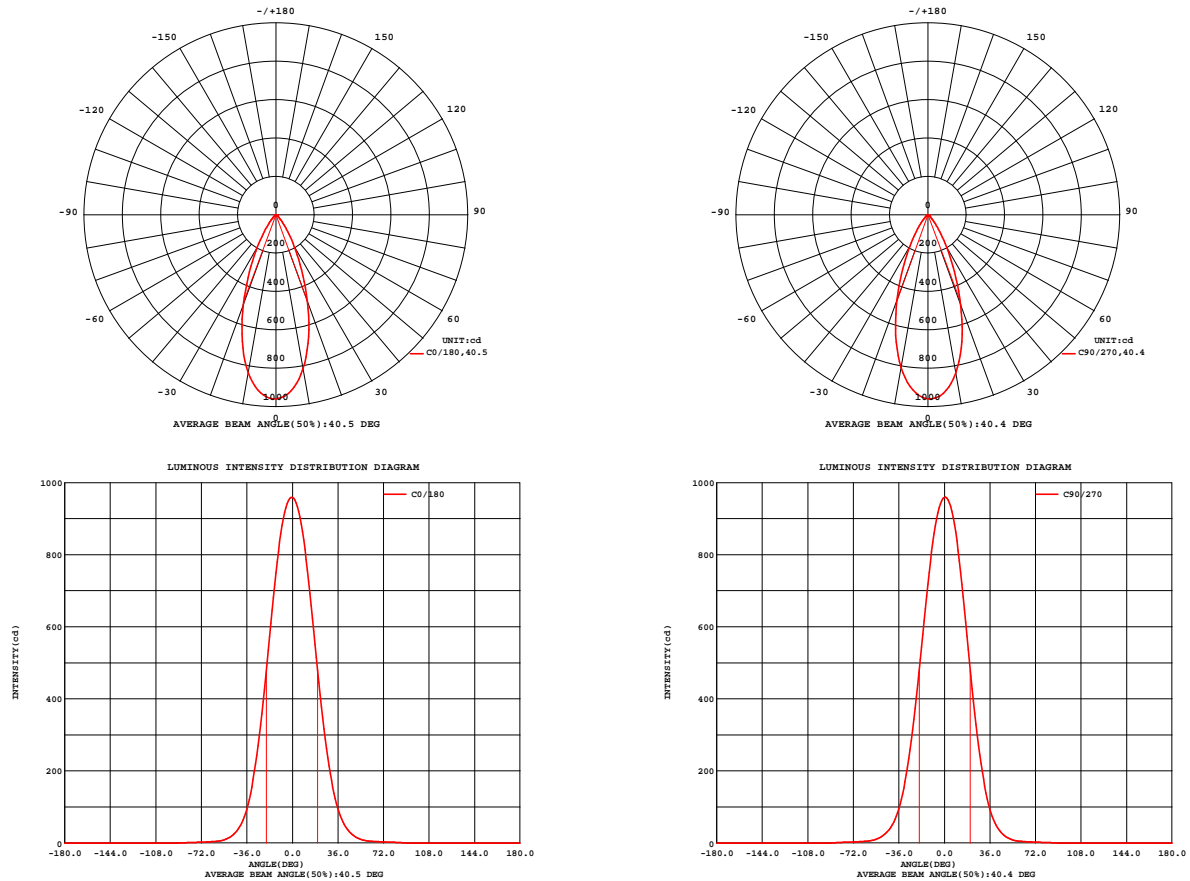


Fig. C0/C180

Fig. C90/C270

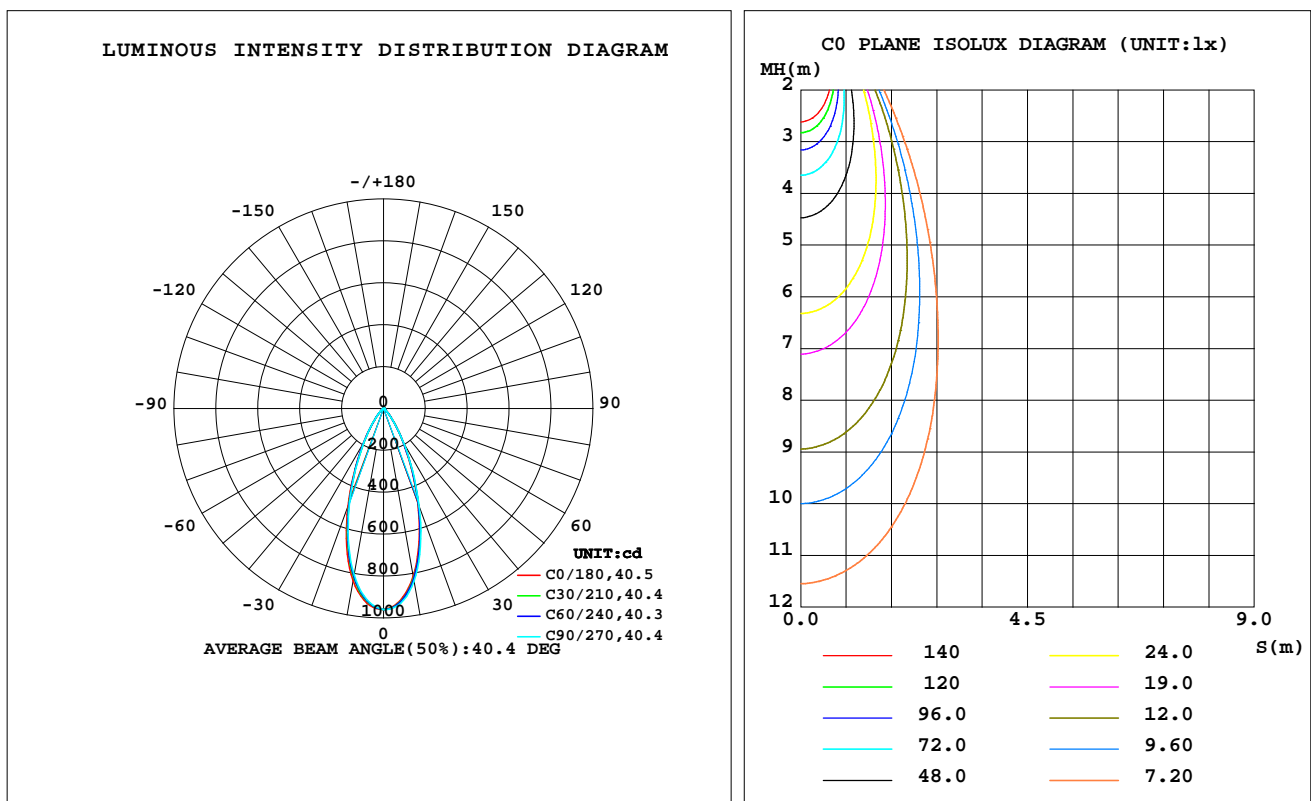
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.21V I:0.0487A P:10.297W PF:0.9569 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.510-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311151336
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 50.97 lm/W			
MODEL	Bridgelux	I _{max} (cd)	960.0	S/MH(C0/180)	0.67
NOMINAL POWER(W)	10	LOR(%)	64.4	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	524.79	η UP,DN(C0-180)	0.0,32.6
NOMINAL FLUX(lm)	814.298	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,31.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	64.4	CIBSE SHR MAX	0.65



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Humidity:65.0%
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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	814.6	825.5	837.6	845.5	835.4	818.6	807.9	807.1	0- 10	85.08	85.08	16.2,10.4
20	479.4	488.4	499.8	507.8	497.9	482.4	473.5	471.4	10- 20	183.0	268.1	51.1,32.9
30	192.6	196.3	198.8	199.7	197.3	192.2	189.5	188.0	20- 30	147.6	415.7	79.2,51
40	58.75	58.09	56.17	55.48	55.62	56.29	57.47	57.86	30- 40	69.75	485.4	92.5,59.6
50	16.56	15.88	14.44	13.89	14.47	15.62	16.80	16.76	40- 50	24.37	509.8	97.1,62.6
60	5.632	5.237	4.796	4.581	4.664	5.135	5.579	5.699	50- 60	8.018	517.8	98.7,63.6
70	3.114	2.834	2.507	2.350	2.356	2.602	2.927	3.115	60- 70	3.764	521.6	99.4,64.1
80	1.984	1.744	1.501	1.379	1.382	1.577	1.850	2.012	70- 80	2.274	523.9	99.8,64.3
90	0	0	0	0	0	0	0	0	80- 90	0.9332	524.8	100,64.4
100	0	0	0	0	0	0	0	0	90-100	0	524.8	100,64.4
110	0	0	0	0	0	0	0	0	100-110	0	524.8	100,64.4
120	0	0	0	0	0	0	0	0	110-120	0	524.8	100,64.4
130	0	0	0	0	0	0	0	0	120-130	0	524.8	100,64.4
140	0	0	0	0	0	0	0	0	130-140	0	524.8	100,64.4
150	0	0	0	0	0	0	0	0	140-150	0	524.8	100,64.4
160	0	0	0	0	0	0	0	0	150-160	0	524.8	100,64.4
170	0	0	0	0	0	0	0	0	160-170	0	524.8	100,64.4
180	0	0	0	0	0	0	0	0	170-180	0	524.8	100,64.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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DRIVER:9290 028 088 250mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.21V I:0.0487A P:10.297W PF:0.9569 Freq:49.99Hz
Lamp Flux:814.298x1 lm

NAME: 2218.510-ACOT-97-DW

TYPE:

WEIGHT:

SPEC.: 3000K

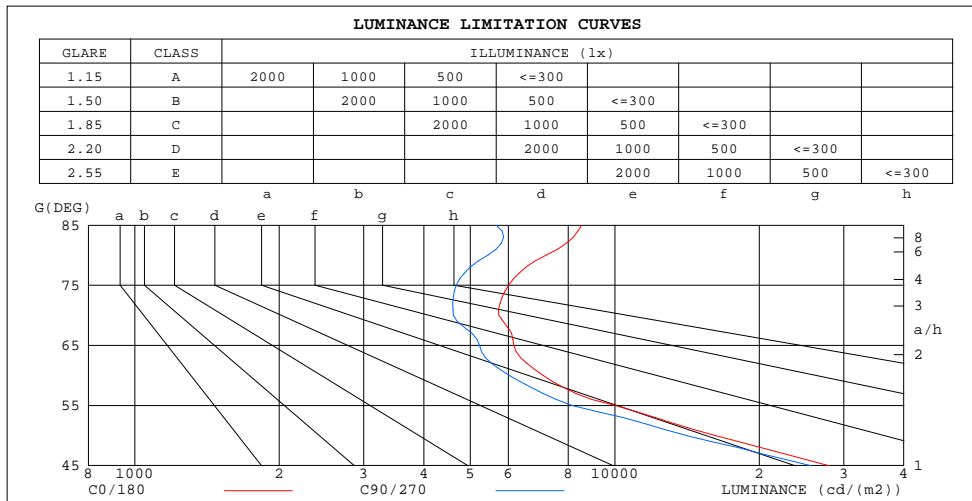
DIM.:

SERIAL No.: 2311151336

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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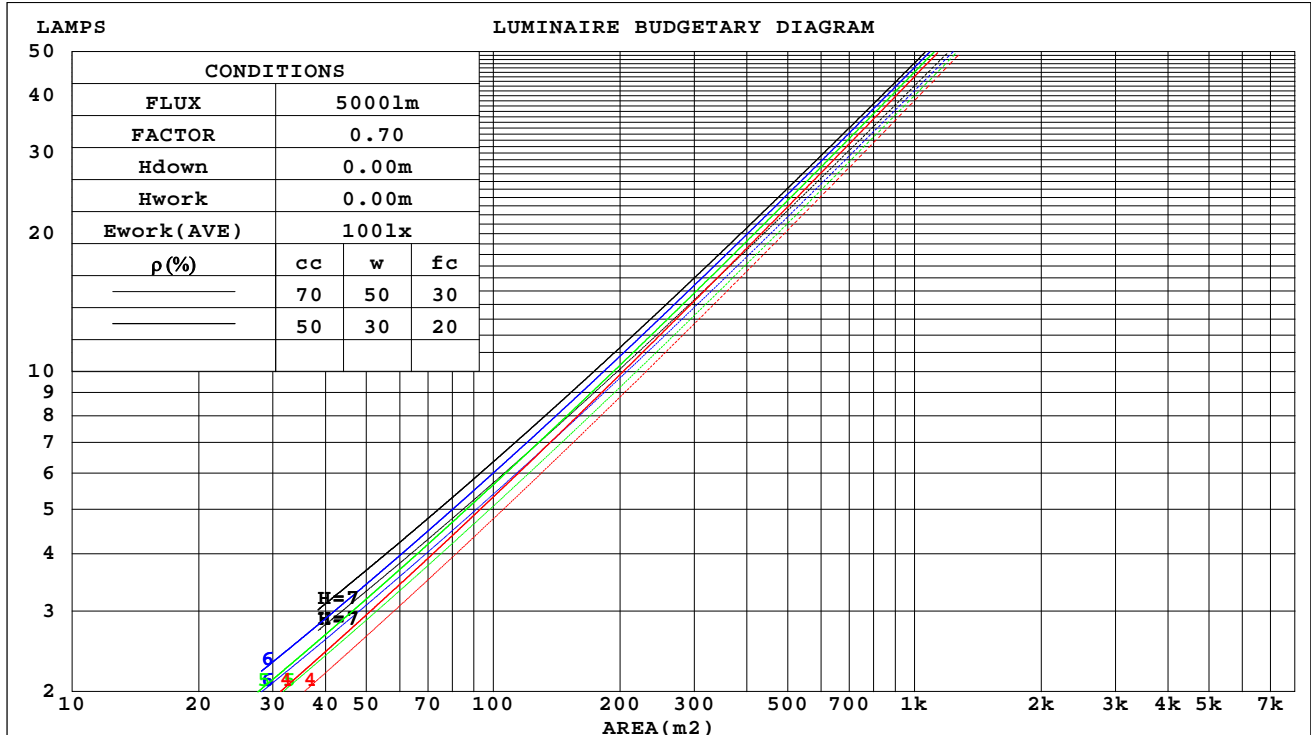
SERIAL No.: 2311151336

MFR.: RISE

SUR.: 0.001589625m2

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	.77	.77	.77	.75	.75	.75	.72	.72	.72	.69	.69	.69	.66	.66	.66	.64
1.0	.72	.70	.69	.70	.69	.68	.68	.67	.66	.65	.64	.64	.63	.62	.62	.61
2.0	.67	.65	.62	.66	.64	.62	.64	.62	.60	.62	.60	.59	.60	.59	.58	.57
3.0	.63	.60	.57	.62	.59	.57	.60	.58	.56	.59	.57	.55	.57	.56	.54	.53
4.0	.59	.56	.53	.59	.55	.53	.57	.55	.52	.56	.54	.52	.55	.53	.51	.50
5.0	.56	.52	.50	.55	.52	.50	.54	.51	.49	.53	.51	.49	.52	.50	.48	.47
6.0	.53	.49	.47	.52	.49	.47	.52	.49	.46	.51	.48	.46	.50	.48	.46	.45
7.0	.50	.47	.44	.50	.46	.44	.49	.46	.44	.48	.46	.44	.48	.45	.43	.43
8.0	.48	.44	.42	.47	.44	.42	.47	.44	.42	.46	.43	.41	.46	.43	.41	.40
9.0	.46	.42	.40	.45	.42	.40	.45	.42	.39	.44	.41	.39	.44	.41	.39	.38
10.0	.43	.40	.38	.43	.40	.38	.43	.40	.38	.42	.39	.38	.42	.39	.37	.37



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30minutes warm-up

WEC AND CCEC

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NAME: 2218.510-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311151336
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	.110	.063	.020	.106	.060	.019	.098	.056	.018	.090	.052	.017	.084	.048	.016	
2.0	.104	.057	.018	.101	.056	.017	.094	.052	.016	.088	.049	.015	.082	.046	.015	
3.0	.099	.053	.016	.096	.051	.015	.090	.049	.015	.085	.046	.014	.080	.044	.014	
4.0	.093	.049	.014	.091	.048	.014	.086	.046	.014	.081	.044	.013	.077	.042	.013	
5.0	.089	.045	.013	.086	.044	.013	.082	.043	.013	.078	.041	.012	.074	.040	.012	
6.0	.084	.042	.012	.082	.042	.012	.079	.040	.012	.075	.039	.011	.072	.038	.011	
7.0	.080	.040	.011	.079	.039	.011	.075	.038	.011	.072	.037	.011	.069	.036	.011	
8.0	.077	.038	.011	.075	.037	.010	.072	.036	.010	.070	.035	.010	.067	.034	.010	
9.0	.074	.036	.010	.072	.035	.010	.070	.034	.010	.067	.034	.010	.065	.033	.009	
10.0	.070	.034	.009	.069	.033	.009	.067	.033	.009	.065	.032	.009	.063	.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	.123	.123	.123	.105	.105	.105	.072	.072	.072	.041	.041	.041	.013	.013	.013		
1.0	.110	.101	.094	.094	.087	.081	.064	.060	.056	.037	.035	.032	.012	.011	.010		
2.0	.100	.085	.073	.086	.074	.063	.059	.051	.044	.034	.030	.026	.011	.010	.008		
3.0	.092	.073	.059	.078	.063	.051	.054	.044	.036	.031	.026	.021	.010	.008	.007		
4.0	.085	.064	.048	.073	.055	.041	.050	.038	.029	.029	.022	.017	.009	.007	.006		
5.0	.079	.056	.039	.068	.048	.034	.047	.034	.024	.027	.020	.014	.009	.006	.005		
6.0	.074	.050	.033	.063	.043	.029	.044	.030	.020	.025	.018	.012	.008	.006	.004		
7.0	.069	.045	.028	.060	.039	.024	.041	.027	.017	.024	.016	.010	.008	.005	.003		
8.0	.065	.041	.024	.056	.035	.021	.039	.025	.015	.023	.015	.009	.007	.005	.003		
9.0	.062	.037	.021	.053	.032	.018	.037	.023	.013	.022	.013	.008	.007	.004	.003		
10.0	.059	.035	.018	.051	.030	.016	.035	.021	.011	.021	.012	.007	.007	.004	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2311151336		
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	19.1	20.0	19.4	20.2	20.3	18.9	19.8	19.2	20.0	20.1
3H	19.2	20.0	19.4	20.2	20.4	18.9	19.7	19.2	19.9	20.1
4H	19.2	20.0	19.5	20.2	20.4	18.9	19.7	19.2	19.9	20.1
6H	19.3	20.0	19.6	20.2	20.5	18.9	19.7	19.2	19.9	20.1
8H	19.3	20.0	19.6	20.3	20.5	18.9	19.6	19.3	19.9	20.2
12H	19.4	20.0	19.7	20.3	20.6	19.0	19.6	19.3	19.9	20.2
4H 2H	19.0	19.7	19.3	20.0	20.2	18.8	19.6	19.1	19.8	20.0
3H	19.1	19.7	19.4	20.0	20.3	18.8	19.5	19.1	19.7	20.0
4H	19.1	19.8	19.5	20.1	20.4	18.9	19.5	19.2	19.8	20.1
6H	19.3	19.8	19.7	20.2	20.5	18.9	19.5	19.3	19.8	20.2
8H	19.4	19.9	19.8	20.3	20.6	19.0	19.5	19.4	19.9	20.2
12H	19.5	20.0	19.9	20.4	20.7	19.0	19.5	19.5	19.9	20.3
8H 4H	19.1	19.6	19.5	19.9	20.3	18.8	19.3	19.2	19.7	20.0
6H	19.3	19.8	19.8	20.1	20.6	19.0	19.4	19.4	19.8	20.2
8H	19.5	19.9	20.0	20.3	20.7	19.1	19.5	19.5	19.9	20.3
12H	19.7	20.0	20.2	20.5	20.9	19.2	19.5	19.7	19.9	20.4
12H 4H	19.1	19.5	19.5	19.9	20.3	18.8	19.2	19.2	19.6	20.0
6H	19.3	19.7	19.8	20.1	20.6	19.0	19.4	19.4	19.8	20.2
8H	19.6	19.9	20.0	20.3	20.8	19.1	19.4	19.6	19.9	20.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.1 / - 3.0					+ 2.2 / - 3.5				
1.5H	+ 3.6 / - 2.9					+ 3.8 / - 3.2				
2.0H	+ 3.3 / - 1.5					+ 3.4 / - 1.8				

CIE Pub.117, 814.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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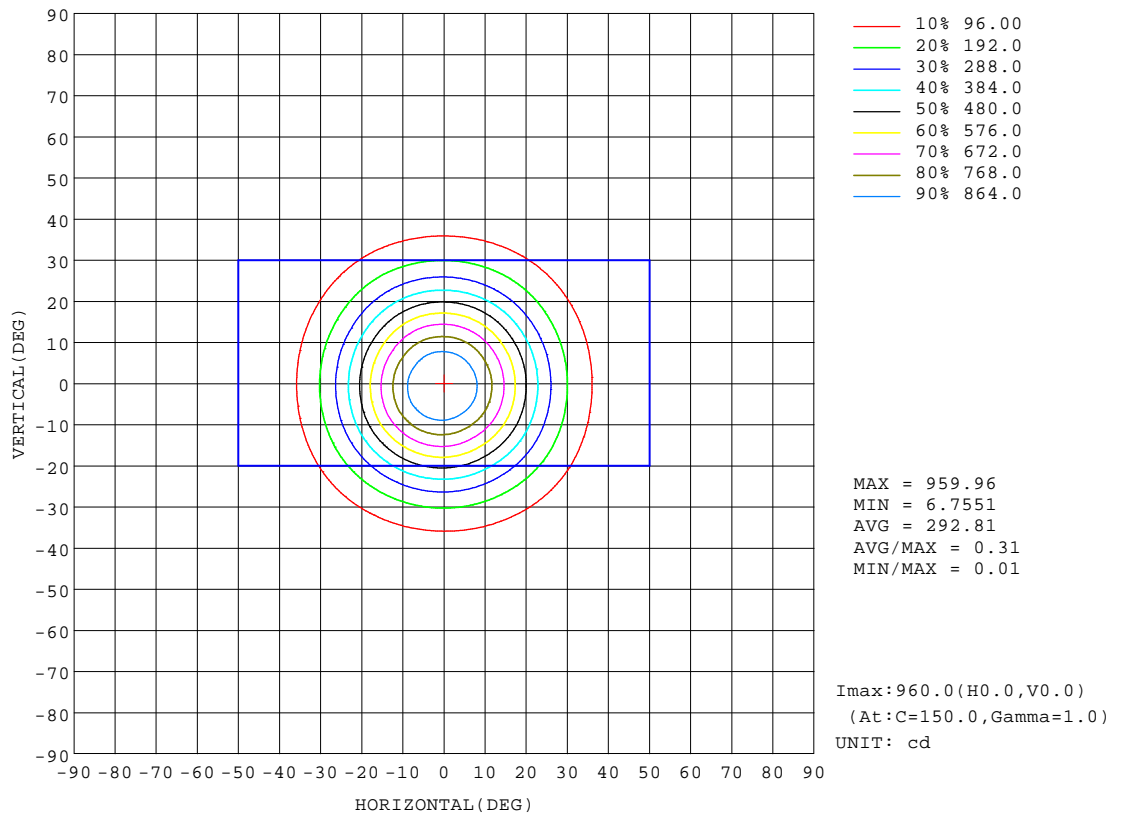
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	52	49	56	52	49	55	51	49	47
0.80	61	57	55	60	57	54	60	56	54	52
1.00	64	60	58	63	60	58	62	60	57	55
1.25	66	63	61	66	63	60	64	62	60	57
1.50	68	65	63	67	64	62	66	64	62	59
2.00	70	67	65	69	66	65	67	65	64	60
2.50	71	68	66	70	68	66	68	66	65	61
3.00	72	70	68	71	69	67	69	67	66	62
4.00	73	71	70	72	70	69	70	68	67	63
5.00	74	73	71	73	71	70	70	69	68	63
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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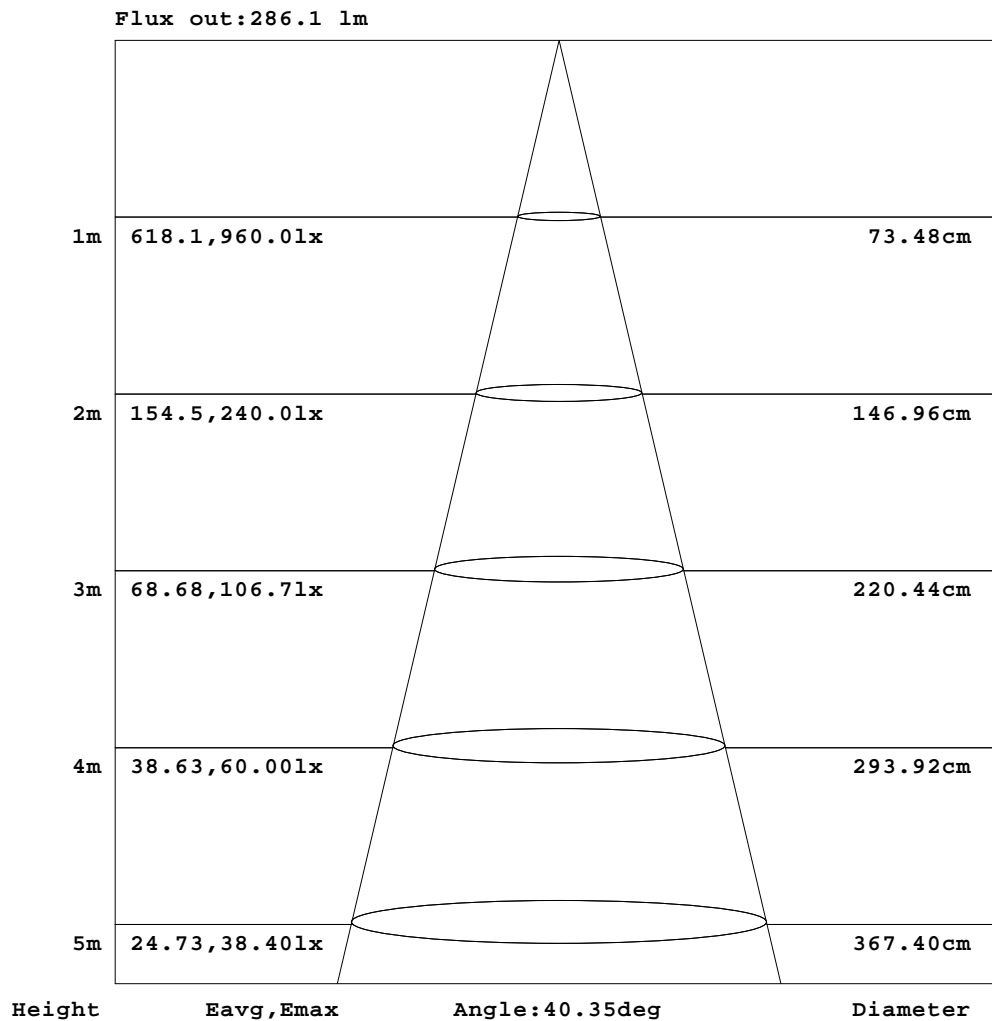


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LENS:PM-1103B 36R+DIFFUSER
DRIVER:9290 028 088 250mA
30minutes warm-up

AAI Figure

Test:U:220.21V I:0.0487A P:10.297W PF:0.9569 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.510-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311151336
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



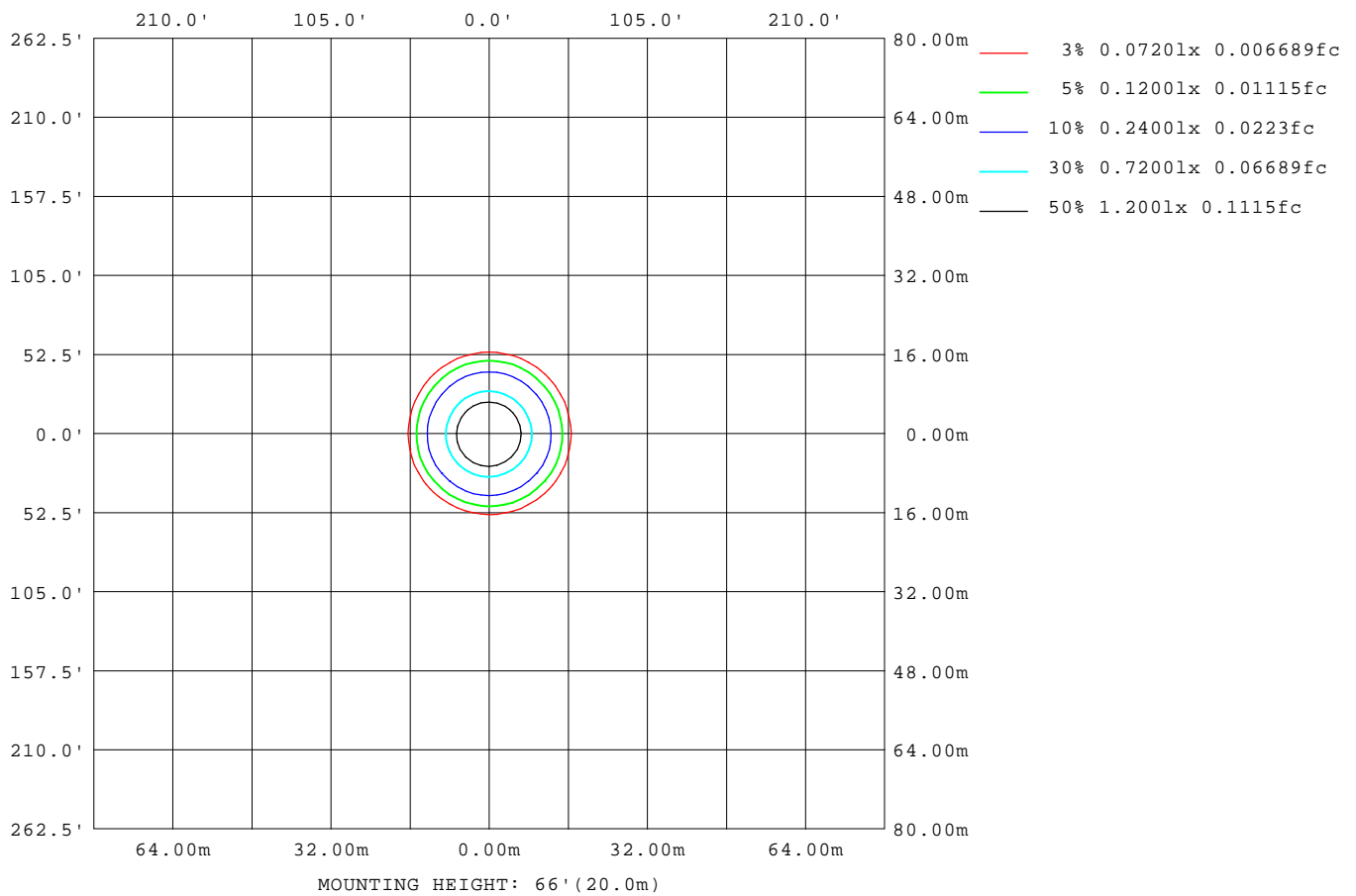
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-15

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:BXRV-DR-1830G-0600-B-23 Ra:90
LENS:PM-1103B 36R+DIFFUSER
DRIVER:9290 028 088 250mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.21V I:0.0487A P:10.297W PF:0.9569 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.510-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311151336
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-15

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:BXRV-DR-1830G-0600-B-23 Ra:90
LENS:PM-1103B 36R+DIFFUSER
DRIVER:9290 028 088 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.21V I:0.0487A P:10.297W PF:0.9569 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.510-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311151336
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

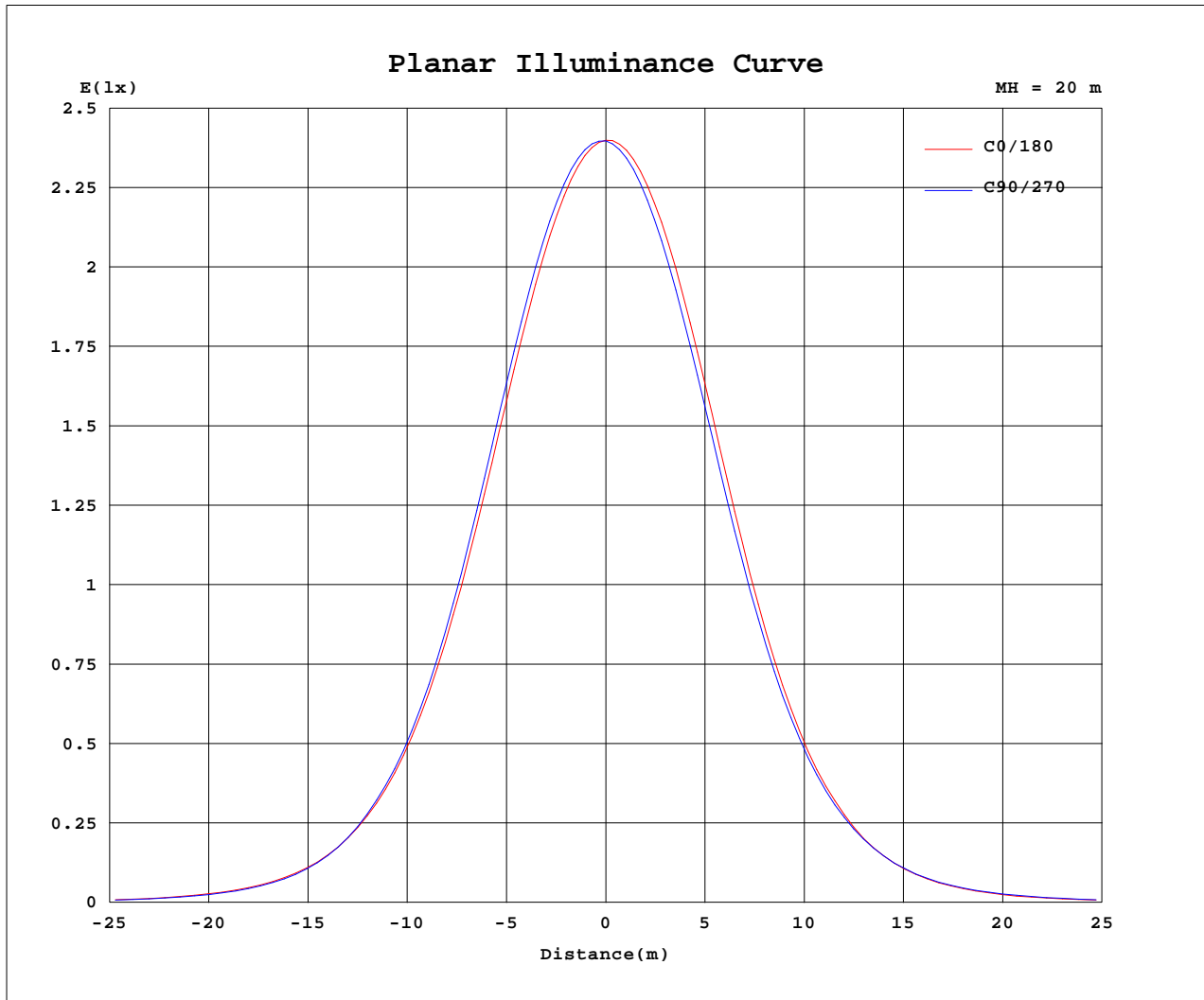
AvgL	cd/m2
L_0~180(65)av	5596
L_0~180(75)av	5183
L_0~180(85)av	6421
L_90~270(65)av	5623
L_90~270(75)av	5161
L_90~270(85)av	6322
L_45(65)av	5607
L_45(75)av	5168
L_45(85)av	6342

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-15

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:BXRV-DR-1830G-0600-B-23 Ra:90
LENS:PM-1103B 36R+DIFFUSER
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: 2023-11-15

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: BXRV-DR-1830G-0600-B-23 Ra: 90
 LENS: PM-1103B 36R+DIFFUSER
 DRIVER: 9290 028 088 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.21V I:0.0487A P:10.297W PF:0.9569 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.510-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311151336
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	959	959	959	959	959	959	959	959	959	959	959	959						
5	920	925	928	934	936	937	931	924	921	916	916	916						
10	815	824	827	838	845	846	835	822	816	808	807	808						
15	658	668	670	684	691	695	682	665	660	651	649	650						
20	479	488	488	500	507	509	498	484	480	473	471	472						
25	317	323	322	329	332	335	328	318	318	313	310	310						
30	193	198	195	199	198	201	197	191	193	190	188	188						
35	109	111	108	108	107	108	107	105	107	107	107	106						
40	58.7	59.1	57.1	56.2	55.1	55.8	55.6	55.4	57.1	57.5	57.9	57.8						
45	31.4	31.4	29.9	28.8	27.7	28.2	28.7	29.0	30.5	31.2	31.4	31.2						
50	16.6	16.4	15.4	14.4	13.8	14.0	14.5	15.1	16.2	16.8	16.9	16.6						
55	9.15	8.89	8.05	7.44	7.09	7.09	7.23	7.74	8.63	9.22	9.45	9.29						
60	5.63	5.40	5.07	4.80	4.59	4.57	4.66	4.94	5.32	5.58	5.69	5.71						
65	4.14	3.97	3.72	3.51	3.36	3.32	3.38	3.57	3.83	4.04	4.17	4.19						
70	3.11	2.96	2.71	2.51	2.37	2.33	2.36	2.49	2.71	2.93	3.08	3.14						
75	2.47	2.32	2.10	1.92	1.80	1.77	1.79	1.92	2.12	2.32	2.47	2.52						
80	1.98	1.84	1.65	1.50	1.40	1.36	1.38	1.48	1.67	1.85	1.99	2.03						
85	1.18	1.09	0.92	0.78	0.67	0.61	0.60	0.66	0.81	0.97	1.10	1.17						
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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