

Luminaire Photograph



Light Output Ratio:	86.0%	
Luminaire Power:	14.96 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: zoe
Test Date: 2024-12-3

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: BXRE-30G10TH-A-83 Ra: 90
LENS: PM-1109A 24R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

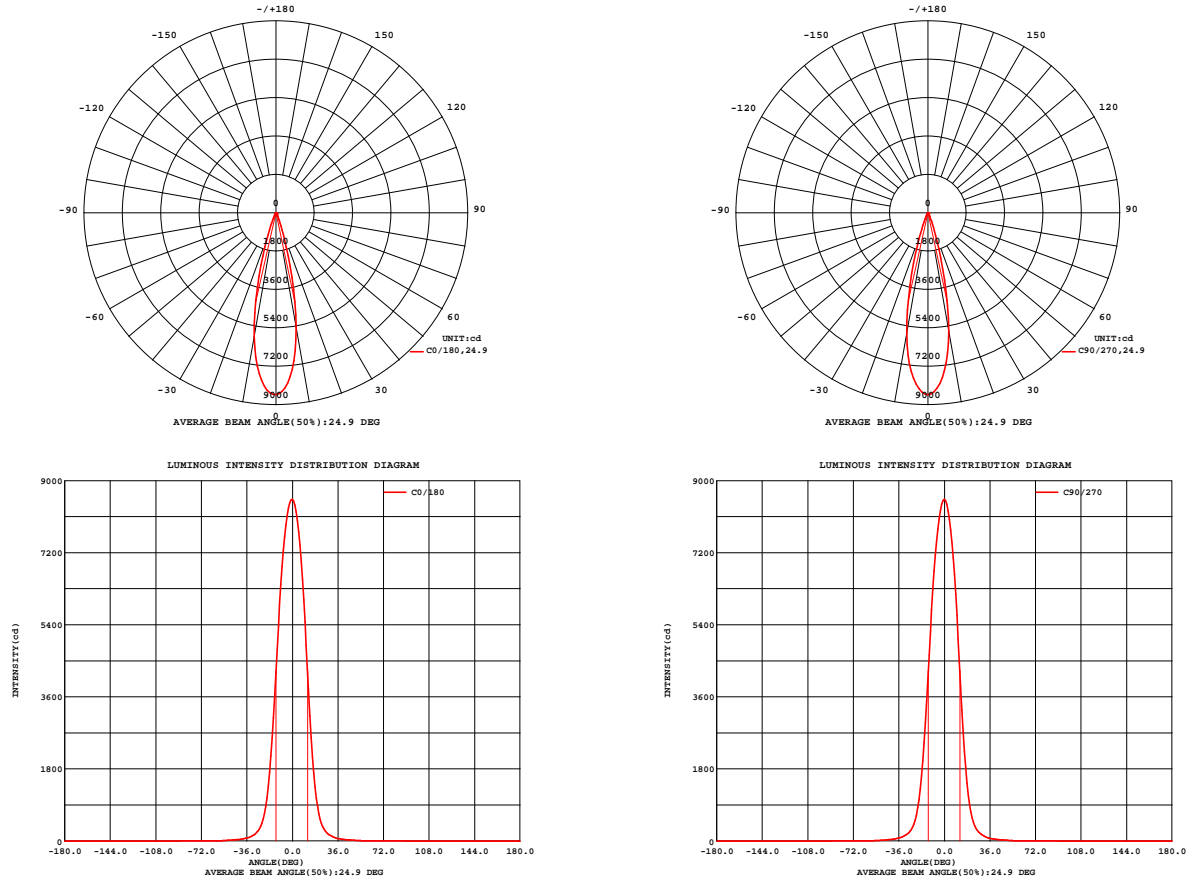


Fig. C0/C180

Fig. C90/C270

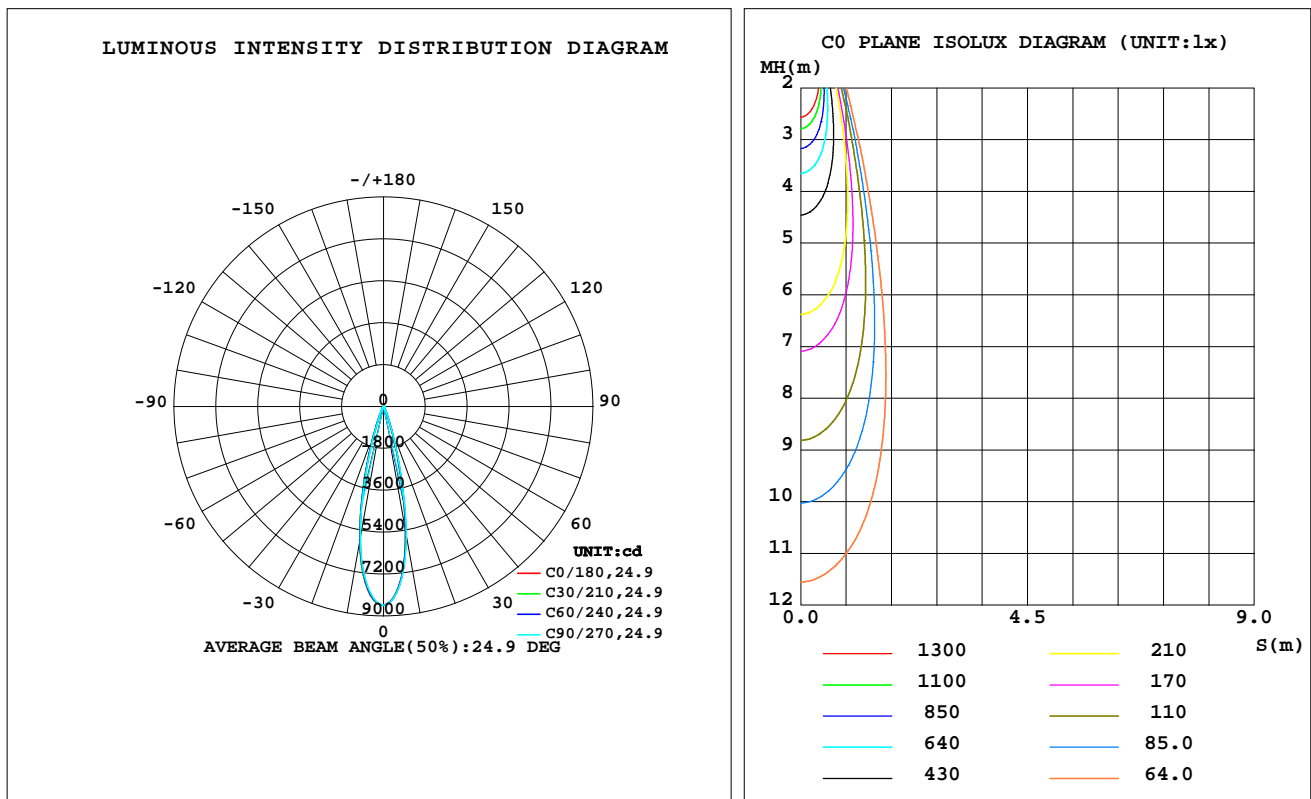
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.3117A P:14.961W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031436
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.61 lm/W			
MODEL	Brideglux	I _{max} (cd)	8535	S/MH(C0/180)	0.42
NOMINAL POWER(W)	15	LOR(%)	86.0	S/MH(C90/270)	0.41
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1714.6	η UP,DN(C0-180)	0.0,41.9
NOMINAL FLUX(lm)	1994.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,44.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	η down(%)	86.0	CIBSE SHR MAX	0.30



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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	5469	5501	5630	5763	5908	5867	5769	5593	0- 10	676.7	676.7	39.5,33.9
20	873.3	851.0	907.2	994.3	1078	1080	1027	939.9	10- 20	779.0	1456	84.9,73
30	138.5	138.1	147.8	155.2	158.9	156.9	157.1	148.5	20- 30	176.0	1632	95.2,81.8
40	41.17	42.31	44.19	45.37	47.06	47.04	47.20	44.95	30- 40	51.91	1684	98.2,84.4
50	15.56	15.90	17.04	17.48	18.24	17.68	17.28	16.72	40- 50	22.46	1706	99.5,85.5
60	2.149	2.212	2.428	2.715	3.040	2.898	2.716	2.459	50- 60	7.573	1714	99.9,85.9
70	0.2011	0.1932	0.1798	0.1865	0.1918	0.1718	0.1814	0.1764	60- 70	0.7580	1714	100,86
80	0.0939	0.0756	0.0825	0.0685	0.0932	0.0715	0.0873	0.0672	70- 80	0.1239	1715	100,86
90	0	0	0	0	0	0	0	0	80- 90	0.0647	1715	100,86
100	0	0	0	0	0	0	0	0	90-100	0	1715	100,86
110	0	0	0	0	0	0	0	0	100-110	0	1715	100,86
120	0	0	0	0	0	0	0	0	110-120	0	1715	100,86
130	0	0	0	0	0	0	0	0	120-130	0	1715	100,86
140	0	0	0	0	0	0	0	0	130-140	0	1715	100,86
150	0	0	0	0	0	0	0	0	140-150	0	1715	100,86
160	0	0	0	0	0	0	0	0	150-160	0	1715	100,86
170	0	0	0	0	0	0	0	0	160-170	0	1715	100,86
180	0	0	0	0	0	0	0	0	170-180	0	1715	100,86
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 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:BXRE-30G10TH-A-83 Ra:90
LENS:PM-1109A 24R
NOT DRIVER:48V
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.3117A P:14.961W PF:1.0000 Freq:49.99Hz
Lamp Flux:1994.6x1 lm

NAME: OZ48-CA

TYPE:

WEIGHT:

SPEC.: 3000K

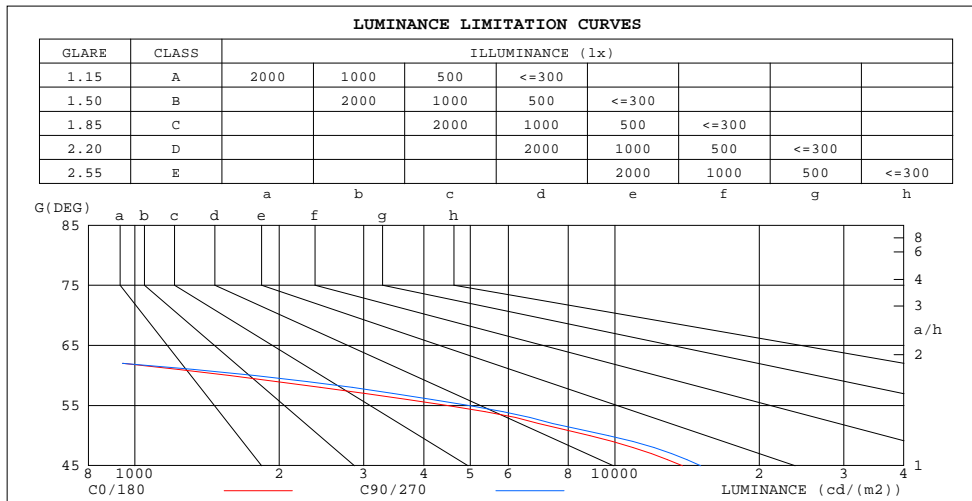
DIM.:

SERIAL No.: 2412031436

MFR.: RISE

SUR.: 0.002732585m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	352	285
80	198	174
75	181	154
70	215	192
65	324	337
60	1575	1776
55	4491	4974
50	8872	9699
45	13826	15089

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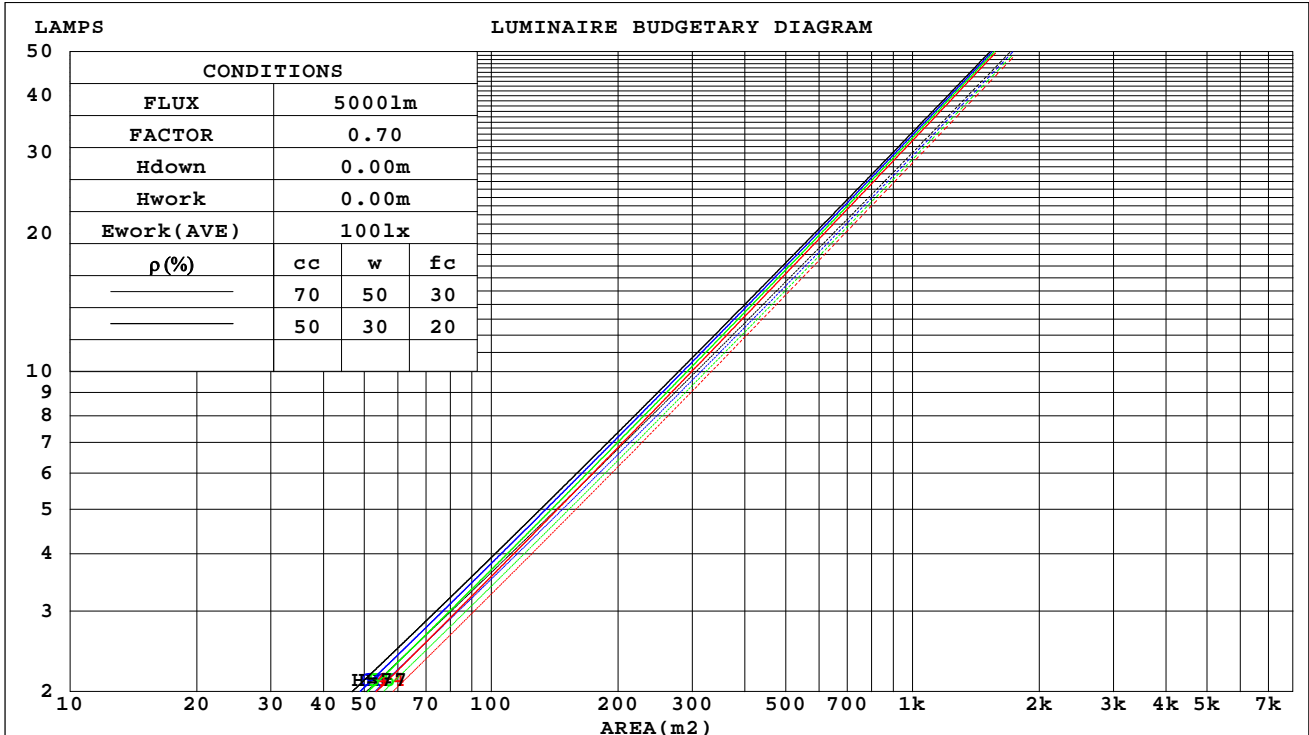
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031436
MFR.: RISE	SUR.: 0.002732585m2	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	1.02	1.02	1.02	.00	.00	.00	.96	.96	.96	.91	.91	.91	.88	.88	.88	.86
1.0	.97	.96	.94	.95	.94	.93	.92	.91	.90	.89	.88	.87	.86	.85	.85	.83
2.0	.93	.90	.88	.91	.89	.87	.89	.87	.85	.86	.85	.84	.84	.83	.82	.81
3.0	.89	.86	.84	.88	.85	.83	.86	.84	.82	.84	.82	.81	.82	.81	.79	.78
4.0	.86	.83	.80	.85	.82	.80	.83	.81	.79	.82	.80	.78	.80	.79	.77	.76
5.0	.83	.80	.77	.82	.79	.77	.81	.78	.76	.80	.77	.76	.78	.76	.75	.74
6.0	.80	.77	.74	.80	.77	.74	.79	.76	.74	.78	.75	.73	.77	.75	.73	.72
7.0	.78	.75	.72	.77	.74	.72	.77	.74	.72	.76	.73	.71	.75	.73	.71	.70
8.0	.76	.72	.70	.75	.72	.70	.75	.72	.70	.74	.71	.69	.73	.71	.69	.68
9.0	.74	.70	.68	.73	.70	.68	.73	.70	.68	.72	.70	.68	.72	.69	.68	.67
10.0	.72	.69	.66	.72	.68	.66	.71	.68	.66	.71	.68	.66	.70	.68	.66	.65



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30minutes warm-up

WEC AND CCEC

Test:U:47.997V I:0.3117A P:14.961W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031436
MFR.: RISE	SUR.: 0.002732585m2	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	.114	.065	.021	.108	.062	.020	.098	.056	.018	.088	.051	.016	.079	.046	.015	
2.0	.105	.058	.018	.101	.055	.017	.092	.051	.016	.084	.047	.015	.076	.043	.014	
3.0	.098	.052	.016	.094	.050	.015	.087	.047	.014	.080	.044	.013	.074	.041	.013	
4.0	.092	.048	.014	.088	.046	.014	.082	.044	.013	.076	.041	.012	.071	.039	.012	
5.0	.086	.044	.013	.083	.043	.012	.078	.041	.012	.073	.039	.011	.069	.037	.011	
6.0	.081	.041	.012	.079	.040	.011	.074	.038	.011	.070	.037	.011	.066	.035	.010	
7.0	.077	.038	.011	.075	.037	.011	.071	.036	.010	.068	.035	.010	.064	.033	.010	
8.0	.073	.036	.010	.072	.035	.010	.068	.034	.010	.065	.033	.009	.062	.032	.009	
9.0	.070	.034	.009	.068	.033	.009	.065	.032	.009	.063	.031	.009	.060	.030	.009	
10.0	.067	.032	.009	.066	.032	.009	.063	.031	.009	.060	.030	.009	.058	.029	.008	

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	.164	.164	.164	.140	.140	.140	.096	.096	.096	.055	.055	.055	.018	.018	.018	
1.0	.144	.136	.128	.124	.116	.110	.085	.080	.076	.049	.046	.044	.016	.015	.014	
2.0	.129	.114	.102	.110	.098	.088	.076	.068	.061	.044	.040	.036	.014	.013	.012	
3.0	.116	.097	.083	.099	.084	.072	.068	.058	.050	.039	.034	.030	.013	.011	.010	
4.0	.105	.084	.068	.090	.073	.059	.062	.051	.042	.036	.030	.025	.011	.010	.008	
5.0	.095	.073	.057	.082	.064	.050	.056	.044	.035	.033	.026	.021	.011	.009	.007	
6.0	.088	.065	.048	.075	.056	.042	.052	.039	.030	.030	.023	.018	.010	.008	.006	
7.0	.081	.058	.041	.070	.050	.036	.048	.035	.026	.028	.021	.015	.009	.007	.005	
8.0	.075	.052	.036	.065	.045	.031	.045	.032	.022	.026	.019	.013	.008	.006	.004	
9.0	.070	.047	.031	.061	.041	.027	.042	.029	.019	.024	.017	.011	.008	.006	.004	
10.0	.066	.043	.027	.057	.037	.024	.039	.026	.017	.023	.015	.010	.007	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2412031436		
MFR.: RISE					SUR.: 0.002732585m2			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	7.8	8.4	8.0	8.6	8.7	8.1	8.7	8.3	8.9	9.0
3H	7.6	8.2	7.9	8.4	8.6	8.0	8.5	8.2	8.7	8.9
4H	7.6	8.1	7.8	8.3	8.5	7.9	8.4	8.1	8.6	8.8
6H	7.5	8.0	7.8	8.2	8.5	7.8	8.3	8.1	8.5	8.8
8H	7.4	8.0	7.7	8.2	8.4	7.8	8.3	8.0	8.5	8.8
12H	7.4	7.9	7.7	8.1	8.4	7.7	8.2	8.0	8.5	8.7
4H 2H	7.6	8.2	7.9	8.4	8.6	7.9	8.5	8.2	8.7	8.9
3H	7.4	7.9	7.7	8.2	8.4	7.7	8.2	8.0	8.5	8.8
4H	7.3	7.8	7.7	8.1	8.4	7.6	8.1	8.0	8.4	8.7
6H	7.2	7.6	7.6	8.0	8.3	7.5	7.9	7.9	8.3	8.6
8H	7.2	7.6	7.6	7.9	8.3	7.5	7.9	7.9	8.2	8.6
12H	7.1	7.5	7.5	7.8	8.2	7.4	7.8	7.8	8.1	8.5
8H 4H	7.2	7.6	7.6	7.9	8.3	7.5	7.9	7.9	8.2	8.6
6H	7.1	7.4	7.5	7.8	8.2	7.4	7.7	7.8	8.1	8.5
8H	7.0	7.3	7.5	7.7	8.1	7.3	7.6	7.8	8.0	8.4
12H	6.9	7.2	7.4	7.6	8.1	7.2	7.5	7.7	7.9	8.4
12H 4H	7.1	7.5	7.5	7.8	8.2	7.4	7.8	7.8	8.1	8.5
6H	7.0	7.3	7.5	7.7	8.1	7.3	7.6	7.8	8.0	8.4
8H	6.9	7.2	7.4	7.6	8.1	7.2	7.5	7.7	7.9	8.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / - 8.1					+ 2.7 / - 7.8				
1.5H	+ 3.2 / - 5.6					+ 3.4 / - 5.4				
2.0H	+ 5.2 / -14.0					+ 5.3 / -15.1				

CIE Pub.117, 1995 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.00273258 m2

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UTILIZATION FACTORS TABLE

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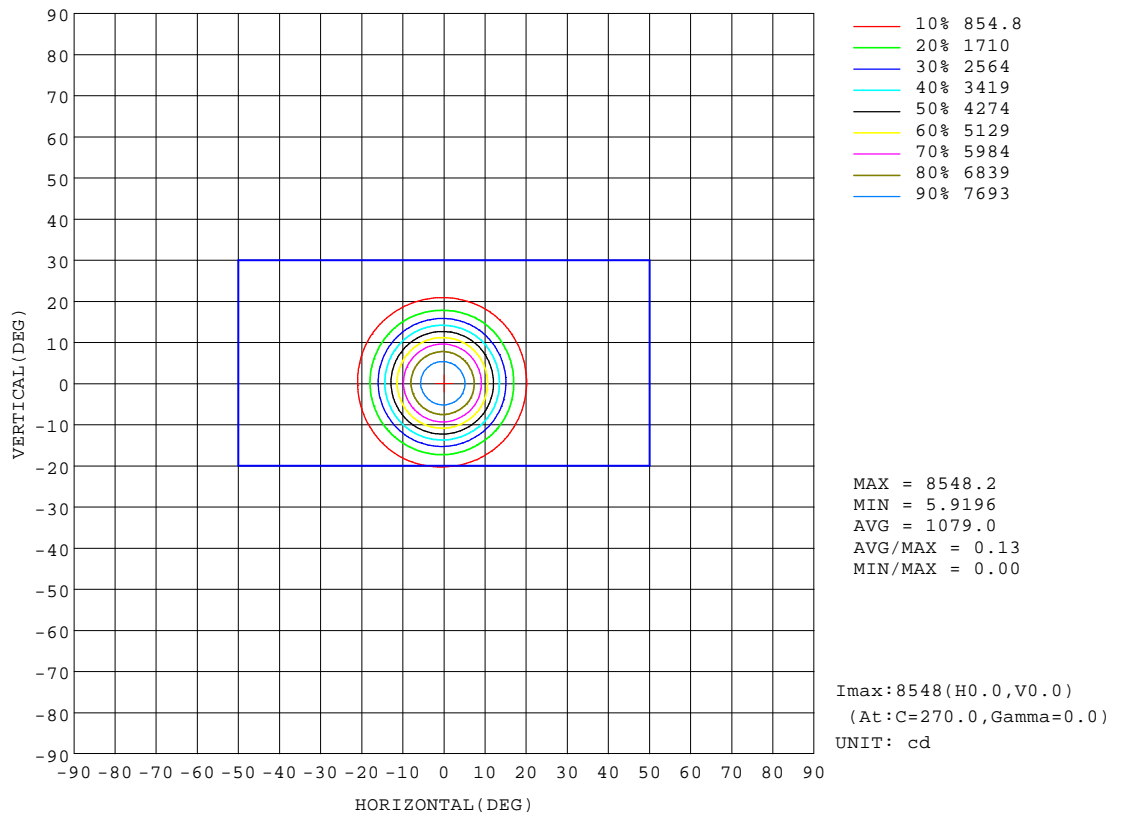
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	78	73	70	77	73	70	77	72	70	67
0.80	84	79	76	83	79	76	82	78	76	73
1.00	87	83	80	86	82	80	85	82	79	76
1.25	90	86	84	89	86	83	88	85	82	79
1.50	92	89	86	91	88	86	89	87	85	81
2.00	94	91	89	93	90	88	91	88	87	82
2.50	96	93	90	94	92	89	92	90	88	83
3.00	97	94	92	95	93	91	92	91	89	84
4.00	98	96	95	97	95	93	94	92	91	85
5.00	99	98	96	98	96	95	94	93	92	86
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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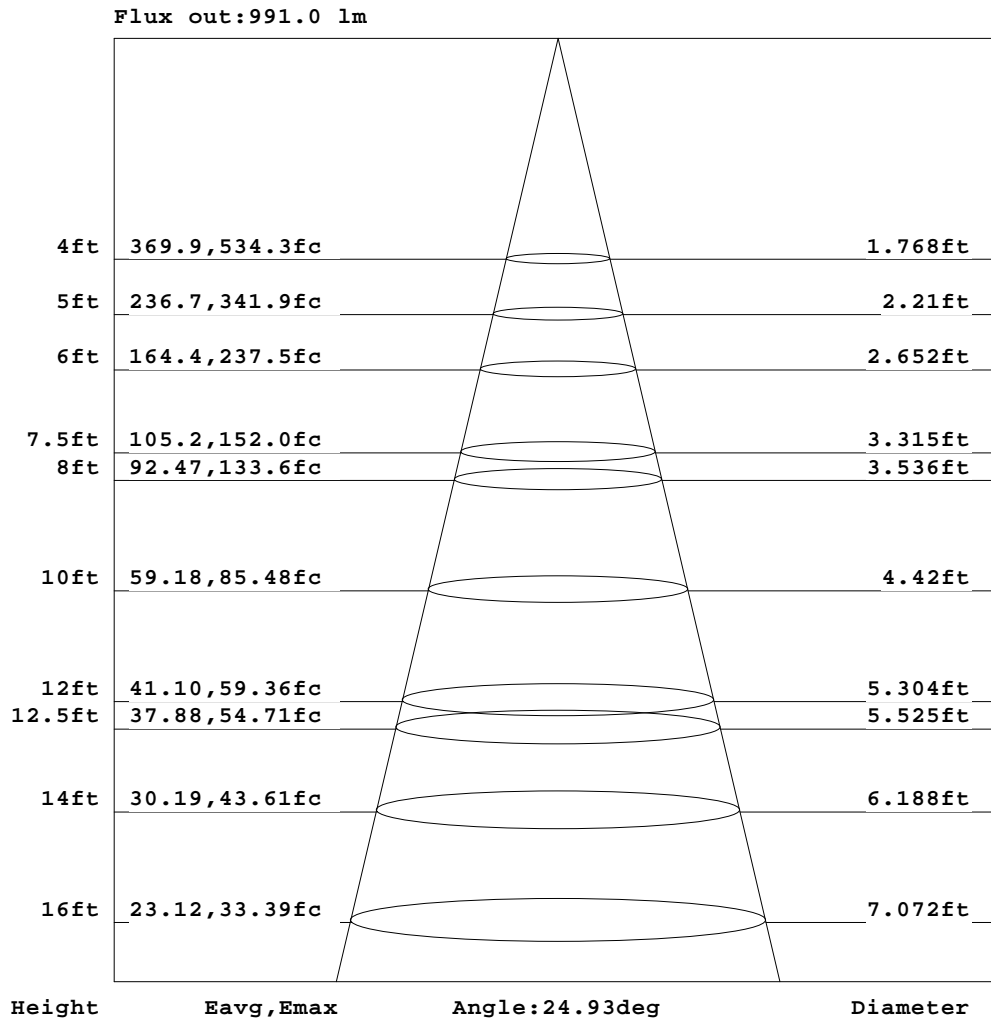


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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2412031436
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:



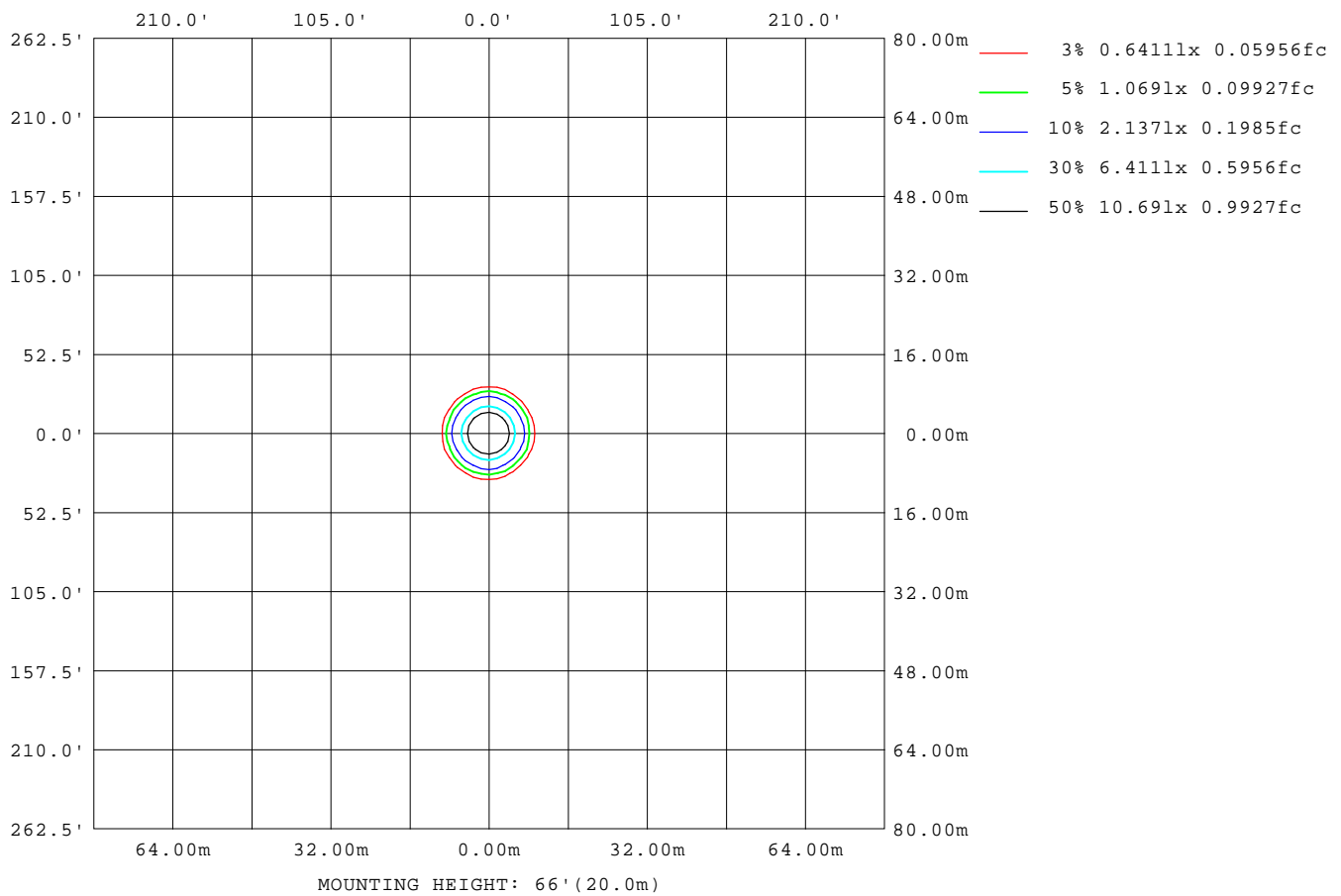
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: zoe
Test Date: 2024-12-3

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: BXRE-30G10TH-A-83 Ra: 90
LENS: PM-1109A 24R
NOT DRIVER: 48V
30minutes warm-up

ISOLUX DIAGRAM

Test:U:47.997V I:0.3117A P:14.961W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031436
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-12-3

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: BXRE-30G10TH-A-83 Ra: 90
LENS: PM-1109A 24R
NOT DRIVER: 48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.3117A P:14.961W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031436
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

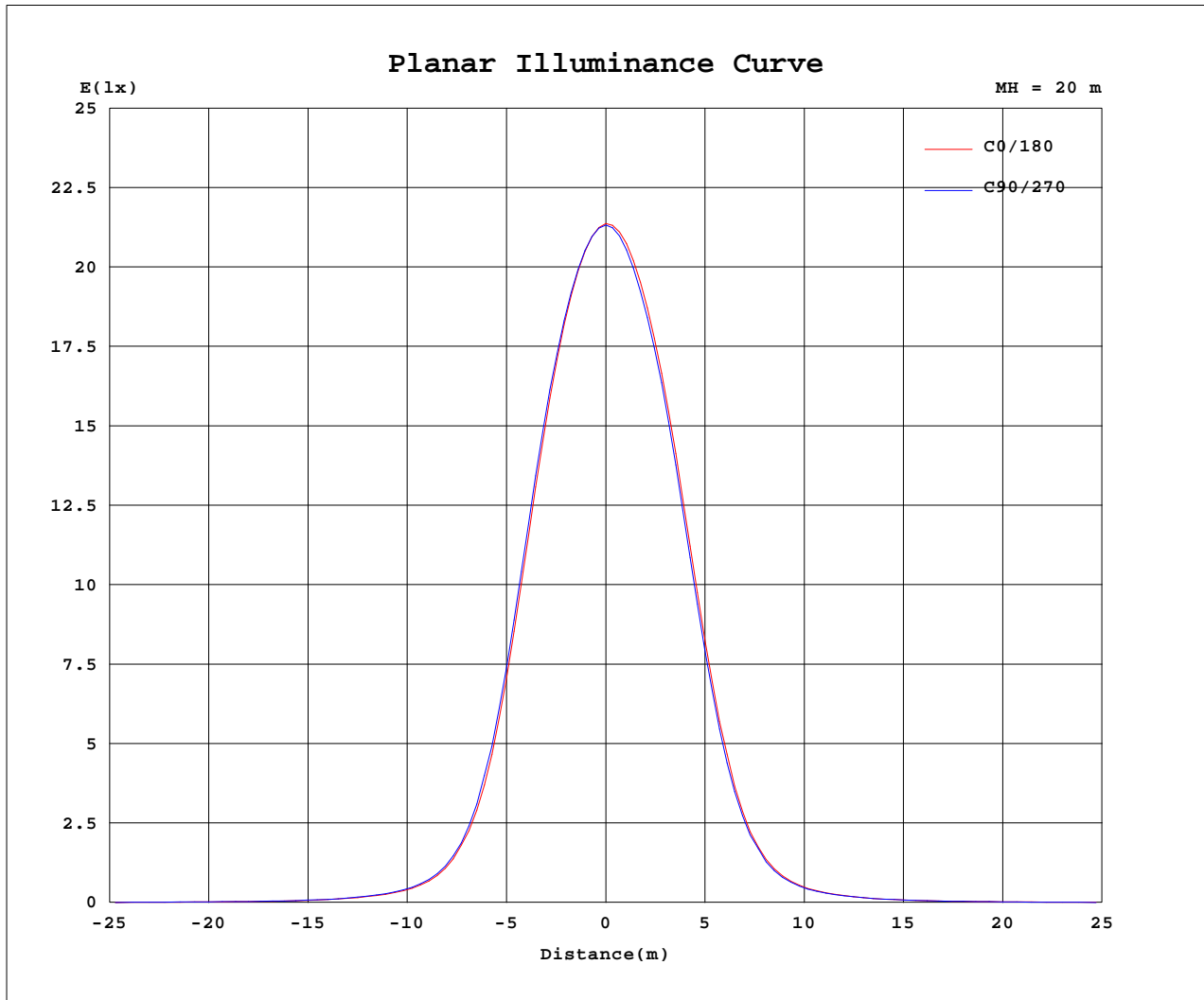
AvgL	cd/m2
L_0~180(65)av	394
L_0~180(75)av	177
L_0~180(85)av	346
L_90~270(65)av	375
L_90~270(75)av	160
L_90~270(85)av	300
L_45(65)av	373
L_45(75)av	149
L_45(85)av	215

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-3

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:BXRE-30G10TH-A-83 Ra:90
LENS:PM-1109A 24R
NOT DRIVER:48V
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: 2024-12-3

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: BXRE-30G10TH-A-83 Ra: 90
 LENS: PM-1109A 24R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.3117A P:14.961W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031436
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	8535	8535	8535	8535	8535	8535	8535	8535	8535	8535	8535	8535						
5	7716	7738	7736	7766	7801	7838	7886	7869	7841	7787	7752	7727						
10	5469	5488	5514	5630	5726	5801	5908	5891	5843	5769	5664	5523						
15	2580	2566	2588	2720	2861	2960	3079	3088	3051	2960	2840	2661						
20	873	840	862	907	969	1019	1078	1085	1075	1027	980	900						
25	298	293	293	318	335	349	361	355	352	344	335	308						
30	138	138	138	148	153	158	159	157	157	157	154	143						
35	71.0	71.0	72.2	76.2	78.4	81.0	82.5	83.2	82.6	83.2	80.2	75.2						
40	41.2	41.8	42.8	44.2	44.7	46.0	47.1	47.3	46.8	47.2	46.2	43.7						
45	26.7	27.4	28.4	29.2	29.0	29.3	29.9	29.6	28.9	29.1	28.9	27.8						
50	15.6	15.6	16.2	17.0	17.3	17.6	18.2	17.8	17.5	17.3	17.0	16.4						
55	7.03	6.85	7.35	7.80	8.11	8.49	9.22	9.01	8.80	8.38	8.20	7.70						
60	2.15	2.26	2.16	2.43	2.56	2.87	3.04	3.04	2.76	2.72	2.49	2.42						
65	0.37	0.37	0.37	0.39	0.41	0.51	0.54	0.50	0.49	0.48	0.42	0.39						
70	0.20	0.20	0.19	0.18	0.18	0.19	0.19	0.18	0.17	0.18	0.18	0.18						
75	0.13	0.12	0.11	0.11	0.11	0.11	0.12	0.10	0.10	0.12	0.10	0.11						
80	0.09	0.08	0.08	0.08	0.07	0.07	0.09	0.07	0.07	0.09	0.07	0.07						
85	0.08	0.06	0.06	0.07	0.05	0.05	0.08	0.05	0.05	0.08	0.05	0.05						
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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