

Luminaire Photograph



Light Output Ratio:	40.7%	
Luminaire Power:	11.76 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: 2024-12-24

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: BXRH-30H1000-B-83 Ra: 95
LENS: PM-0144 15R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

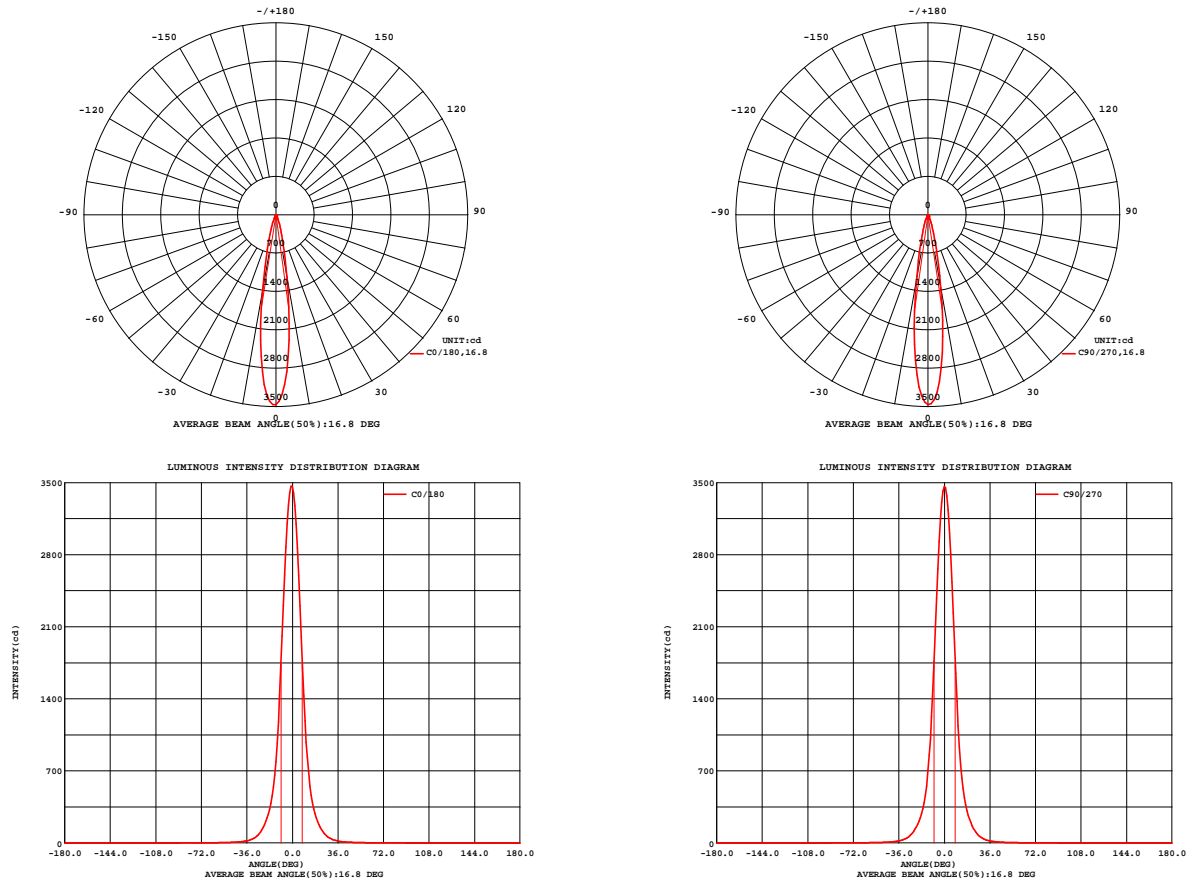


Fig. C0/C180

Fig. C90/C270

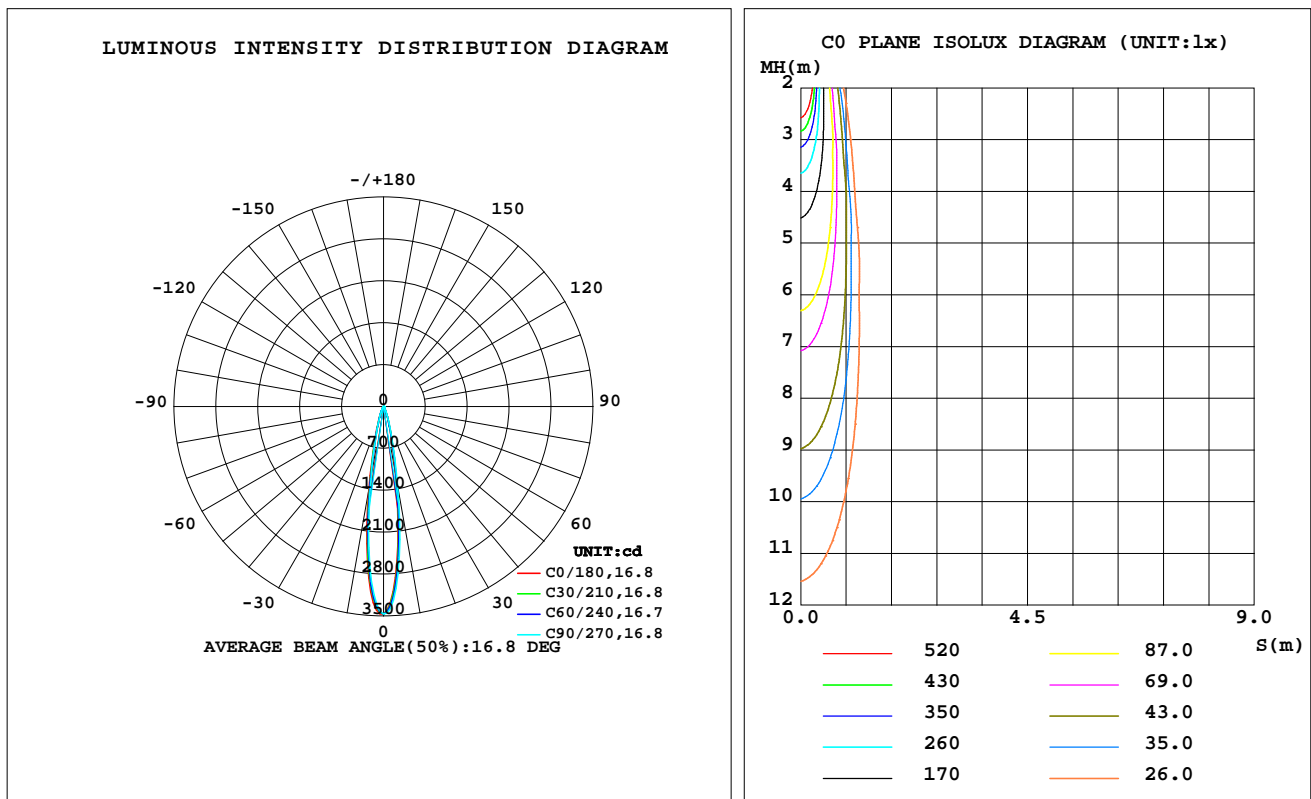
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-24

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:BXRH-30H1000-B-83 Ra:95
LENS:PM-0144 15R
NOT DRIVER:48V
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.2450A P:11.759W PF:1.0000 Freq:49.99Hz Lamp Flux:1050.8x1 lm		
NAME: OZ48-SBZ-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412241497
MFR.: RISE	SUR.: 0.001319585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 36.36 lm/W			
MODEL	Brideglux	Imax(cd)	3464	S/MH(C0/180)	0.31
NOMINAL POWER(W)	12	LOR(%)	40.7	S/MH(C90/270)	0.28
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	427.60	η UP,DN(C0-180)	0.0,20.9
NOMINAL FLUX(lm)	1050.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,19.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	η down(%)	40.7	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	1185	1268	1376	1420	1428	1316	1226	1219	0- 10	210.2	210.2	49.2,20
20	209.2	216.9	232.8	239.9	243.9	222.0	209.9	110.5	10- 20	146.9	357.1	83.5,34
30	43.75	44.54	46.72	47.93	48.00	46.46	45.69	23.29	20- 30	45.77	402.8	94.2,38.3
40	11.98	12.32	12.73	13.01	13.06	12.99	13.12	6.459	30- 40	14.21	417.0	97.5,39.7
50	5.058	5.171	5.375	5.677	5.577	5.560	5.757	2.732	40- 50	5.809	422.9	98.9,40.2
60	2.391	2.420	2.530	2.837	2.784	2.737	2.791	1.294	50- 60	3.297	426.1	99.7,40.6
70	0.4892	0.4803	0.5252	0.6589	0.6144	0.5969	0.6242	0.2611	60- 70	1.210	427.4	99.9,40.7
80	0.0268	0.0208	0.0227	0.0192	0.0217	0.0172	0.0261	0.0093	70- 80	0.2326	427.6	100,40.7
90	0	0	0	0	0	0	0	0	80- 90	0.0131	427.6	100,40.7
100	0	0	0	0	0	0	0	0	90-100	0	427.6	100,40.7
110	0	0	0	0	0	0	0	0	100-110	0	427.6	100,40.7
120	0	0	0	0	0	0	0	0	110-120	0	427.6	100,40.7
130	0	0	0	0	0	0	0	0	120-130	0	427.6	100,40.7
140	0	0	0	0	0	0	0	0	130-140	0	427.6	100,40.7
150	0	0	0	0	0	0	0	0	140-150	0	427.6	100,40.7
160	0	0	0	0	0	0	0	0	150-160	0	427.6	100,40.7
170	0	0	0	0	0	0	0	0	160-170	0	427.6	100,40.7
180	0	0	0	0	0	0	0	0	170-180	0	427.6	100,40.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
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LENS:PM-0144 15R
NOT DRIVER:48V
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.2450A P:11.759W PF:1.0000 Freq:49.99Hz
Lamp Flux:1050.8x1 lm

NAME: OZ48-SBZ-50

TYPE:

WEIGHT:

SPEC.: 3000K

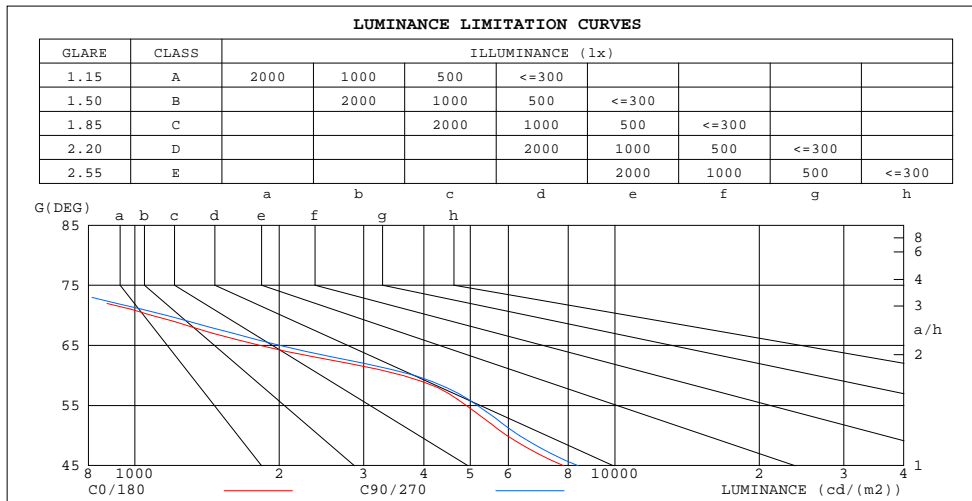
DIM.:

SERIAL No.: 2412241497

MFR.: RISE

SUR.: 0.001319585m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	165	135
80	117	99
75	551	575
70	1084	1162
65	1823	2004
60	3624	3830
55	4910	5182
50	5963	6329
45	7826	8389

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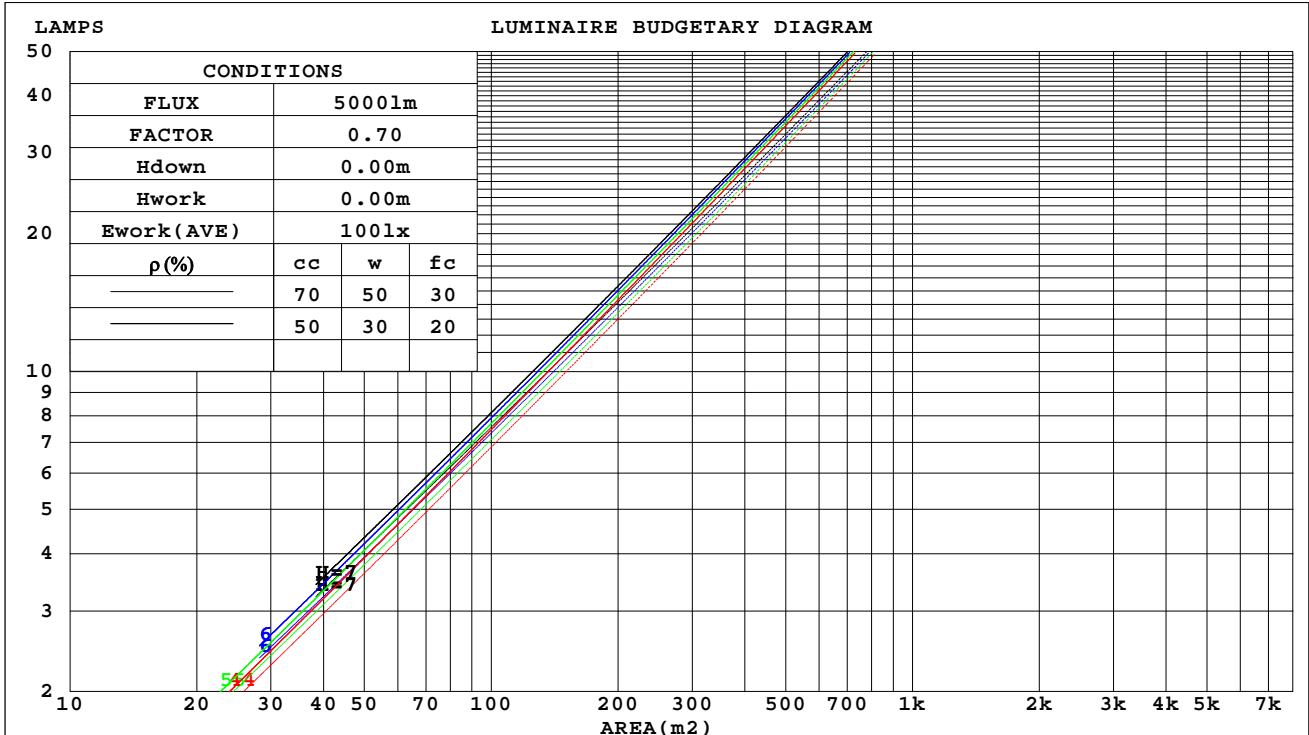
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2412241497
MFR.: RISE	SUR.: 0.001319585m2	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	.48	.48	.48	.47	.47	.47	.45	.45	.45	.43	.43	.43	.42	.42	.42	.41
1.0	.46	.45	.45	.45	.45	.44	.44	.43	.43	.42	.42	.41	.41	.40	.40	.40
2.0	.44	.43	.42	.43	.42	.42	.42	.41	.41	.41	.40	.40	.40	.39	.39	.38
3.0	.42	.41	.40	.42	.41	.40	.41	.40	.39	.40	.39	.38	.39	.38	.38	.37
4.0	.41	.39	.38	.41	.39	.38	.40	.39	.38	.39	.38	.37	.38	.38	.37	.36
5.0	.40	.38	.37	.39	.38	.37	.39	.37	.37	.38	.37	.36	.38	.37	.36	.35
6.0	.39	.37	.36	.38	.37	.36	.38	.36	.35	.37	.36	.35	.37	.36	.35	.35
7.0	.37	.36	.35	.37	.36	.35	.37	.36	.35	.36	.35	.34	.36	.35	.34	.34
8.0	.37	.35	.34	.36	.35	.34	.36	.35	.34	.36	.34	.34	.35	.34	.34	.33
9.0	.36	.34	.33	.36	.34	.33	.35	.34	.33	.35	.34	.33	.35	.34	.33	.33
10.0	.35	.33	.32	.35	.33	.32	.35	.33	.32	.34	.33	.32	.34	.33	.32	.32



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30minutes warm-up



WEC AND CCEC

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NAME: OZ48-SBZ-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412241497
MFR.: RISE	SUR.: 0.001319585m2	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.053	.030	.009	.050	.028	.009	.045	.026	.008	.040	.023	.007	.036	.021	.007	
2.0	.049	.027	.008	.046	.026	.008	.042	.023	.007	.038	.022	.007	.035	.020	.006	
3.0	.045	.024	.007	.043	.023	.007	.040	.022	.007	.037	.020	.006	.034	.019	.006	
4.0	.042	.022	.006	.040	.021	.006	.038	.020	.006	.035	.019	.006	.032	.018	.005	
5.0	.039	.020	.006	.038	.019	.006	.036	.019	.005	.033	.018	.005	.031	.017	.005	
6.0	.037	.019	.005	.036	.018	.005	.034	.017	.005	.032	.017	.005	.030	.016	.005	
7.0	.035	.017	.005	.034	.017	.005	.032	.016	.005	.030	.016	.005	.029	.015	.004	
8.0	.033	.016	.005	.032	.016	.004	.031	.015	.004	.029	.015	.004	.028	.014	.004	
9.0	.031	.015	.004	.031	.015	.004	.029	.015	.004	.028	.014	.004	.027	.014	.004	
10.0	.030	.014	.004	.029	.014	.004	.028	.014	.004	.027	.013	.004	.026	.013	.004	

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			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.078	.078	.078	.066	.066	.066	.045	.045	.045	.026	.026	.026	.008	.008	.008	
1.0	.068	.064	.060	.058	.055	.052	.040	.038	.036	.023	.022	.021	.007	.007	.007	
2.0	.061	.054	.048	.052	.046	.042	.036	.032	.029	.021	.019	.017	.007	.006	.006	
3.0	.054	.046	.039	.047	.040	.034	.032	.028	.024	.019	.016	.014	.006	.005	.005	
4.0	.049	.040	.033	.042	.034	.028	.029	.024	.020	.017	.014	.012	.005	.005	.004	
5.0	.045	.035	.027	.038	.030	.024	.026	.021	.017	.015	.012	.010	.005	.004	.003	
6.0	.041	.031	.023	.035	.026	.020	.024	.019	.014	.014	.011	.008	.005	.004	.003	
7.0	.038	.027	.020	.032	.024	.017	.022	.017	.012	.013	.010	.007	.004	.003	.002	
8.0	.035	.024	.017	.030	.021	.015	.021	.015	.011	.012	.009	.006	.004	.003	.002	
9.0	.033	.022	.015	.028	.019	.013	.019	.013	.009	.011	.008	.006	.004	.003	.002	
10.0	.030	.020	.013	.026	.017	.011	.018	.012	.008	.011	.007	.005	.003	.002	.002	

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UGR(Unified Glare Rating) Table

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NAME: OZ48-SBZ-50					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2412241497		
MFR.: RISE					SUR.: 0.001319585m2			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	9.9	10.5	10.1	10.6	10.8	10.1	10.7	10.3	10.8	11.0
3H	9.9	10.4	10.1	10.6	10.8	10.0	10.6	10.3	10.8	11.0
4H	9.8	10.3	10.0	10.5	10.7	10.0	10.5	10.2	10.7	10.9
6H	9.7	10.2	10.0	10.4	10.7	9.9	10.4	10.2	10.6	10.9
8H	9.7	10.2	10.0	10.4	10.6	9.9	10.4	10.2	10.6	10.8
12H	9.6	10.1	9.9	10.4	10.6	9.8	10.3	10.1	10.5	10.8
4H 2H	9.9	10.4	10.1	10.6	10.8	10.0	10.6	10.3	10.8	11.0
3H	9.8	10.3	10.1	10.6	10.8	10.0	10.5	10.3	10.7	11.0
4H	9.8	10.2	10.1	10.5	10.8	9.9	10.4	10.3	10.7	11.0
6H	9.7	10.0	10.0	10.4	10.7	9.8	10.2	10.2	10.5	10.9
8H	9.6	10.0	10.0	10.3	10.7	9.8	10.1	10.2	10.5	10.8
12H	9.5	9.9	9.9	10.2	10.6	9.7	10.1	10.1	10.4	10.8
8H 4H	9.6	10.0	10.0	10.3	10.7	9.8	10.2	10.2	10.5	10.9
6H	9.5	9.8	9.9	10.2	10.6	9.7	10.0	10.1	10.4	10.8
8H	9.4	9.7	9.9	10.1	10.6	9.6	9.9	10.1	10.3	10.7
12H	9.4	9.6	9.8	10.0	10.5	9.6	9.8	10.0	10.2	10.7
12H 4H	9.6	9.9	10.0	10.3	10.6	9.7	10.1	10.1	10.4	10.8
6H	9.4	9.7	9.9	10.1	10.6	9.6	9.9	10.1	10.3	10.7
8H	9.4	9.6	9.8	10.0	10.5	9.6	9.8	10.0	10.2	10.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.8 / - 2.7					+ 2.0 / - 2.7				
1.5H	+ 2.8 / - 1.5					+ 3.1 / - 1.6				
2.0H	+ 2.2 / - 4.0					+ 2.4 / - 4.2				

CIE Pub.117, 1051 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)
Area: 0.00131959 m2

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UTILIZATION FACTORS TABLE

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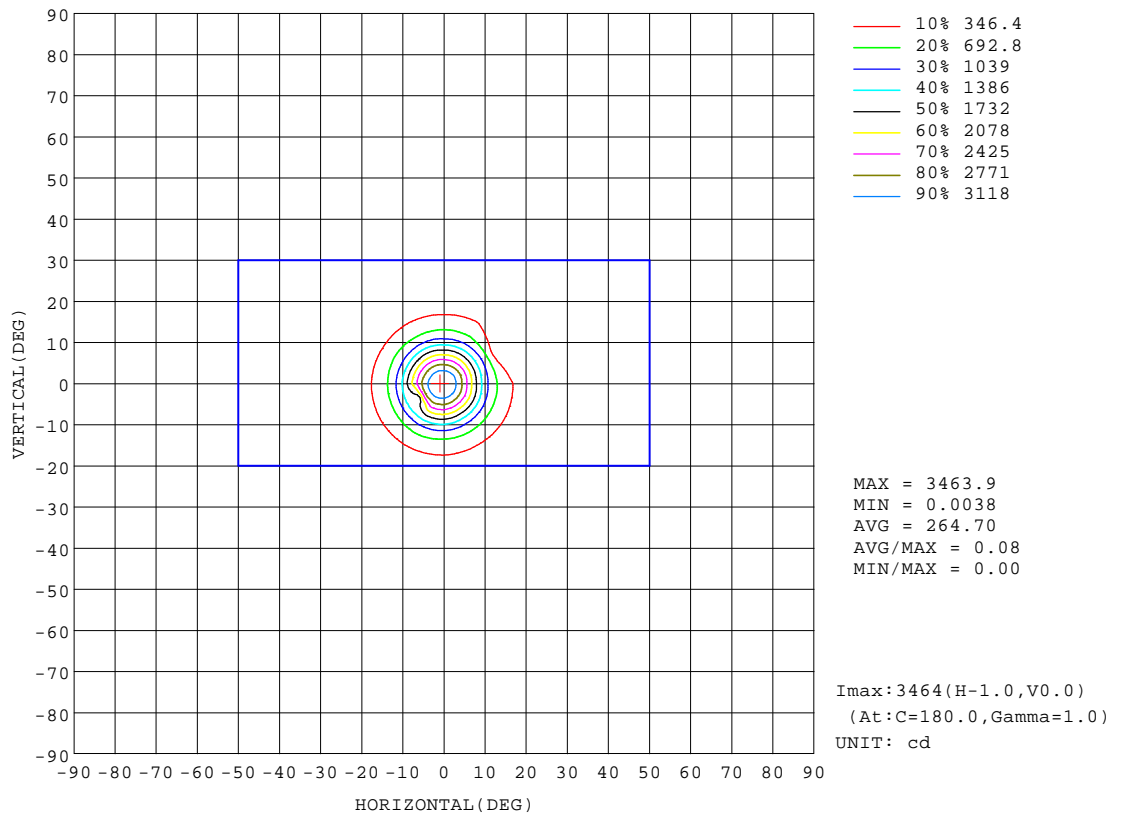
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	37	34	33	36	34	33	36	34	33	31
0.80	40	37	36	39	37	36	39	37	36	34
1.00	41	39	38	41	39	38	40	39	37	36
1.25	43	41	39	42	40	39	41	40	39	37
1.50	44	42	41	43	42	40	42	41	40	38
2.00	45	43	42	44	43	41	43	42	41	39
2.50	45	44	43	45	43	42	43	42	41	39
3.00	46	44	43	45	44	43	44	43	42	40
4.00	47	45	45	46	45	44	44	44	43	40
5.00	47	46	46	46	45	45	45	44	44	41
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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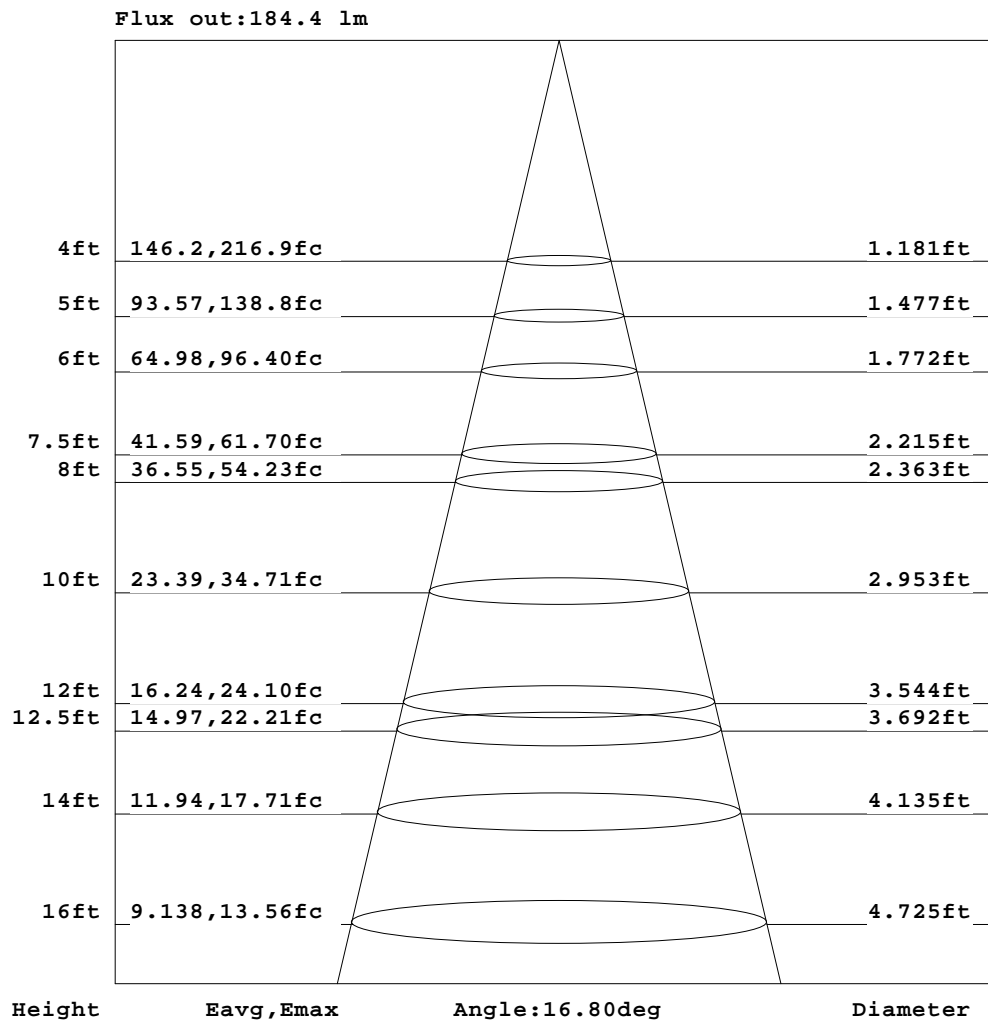


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AAI Figure

Test:U:47.997V I:0.2450A P:11.759W PF:1.0000 Freq:49.99Hz Lamp Flux:1050.8x1 lm		
NAME: OZ48-SBZ-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412241497
MFR.: RISE	SUR.: 0.001319585m2	Shielding Angle:



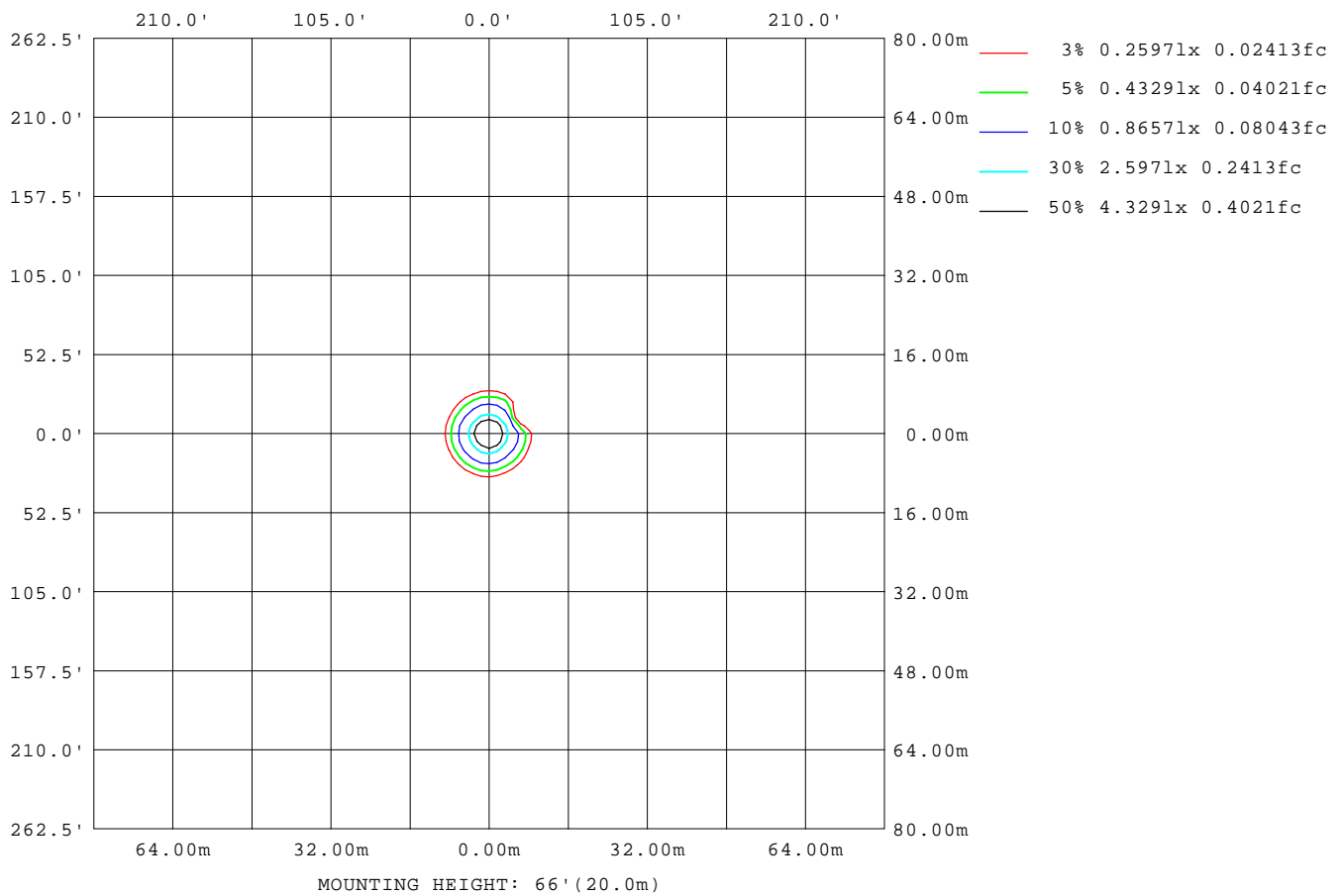
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-24

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:BXRH-30H1000-B-83 Ra:95
LENS:PM-0144 15R
NOT DRIVER:48V
30minutes warm-up

ISOLUX DIAGRAM

Test:U:47.997V I:0.2450A P:11.759W PF:1.0000 Freq:49.99Hz Lamp Flux:1050.8x1 lm		
NAME: OZ48-SBZ-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412241497
MFR.: RISE	SUR.: 0.001319585m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-24

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:BXRH-30H1000-B-83 Ra:95
LENS:PM-0144 15R
NOT DRIVER:48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.2450A P:11.759W PF:1.0000 Freq:49.99Hz Lamp Flux:1050.8x1 lm		
NAME: OZ48-SBZ-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412241497
MFR.: RISE	SUR.: 0.001319585m2	Shielding Angle:

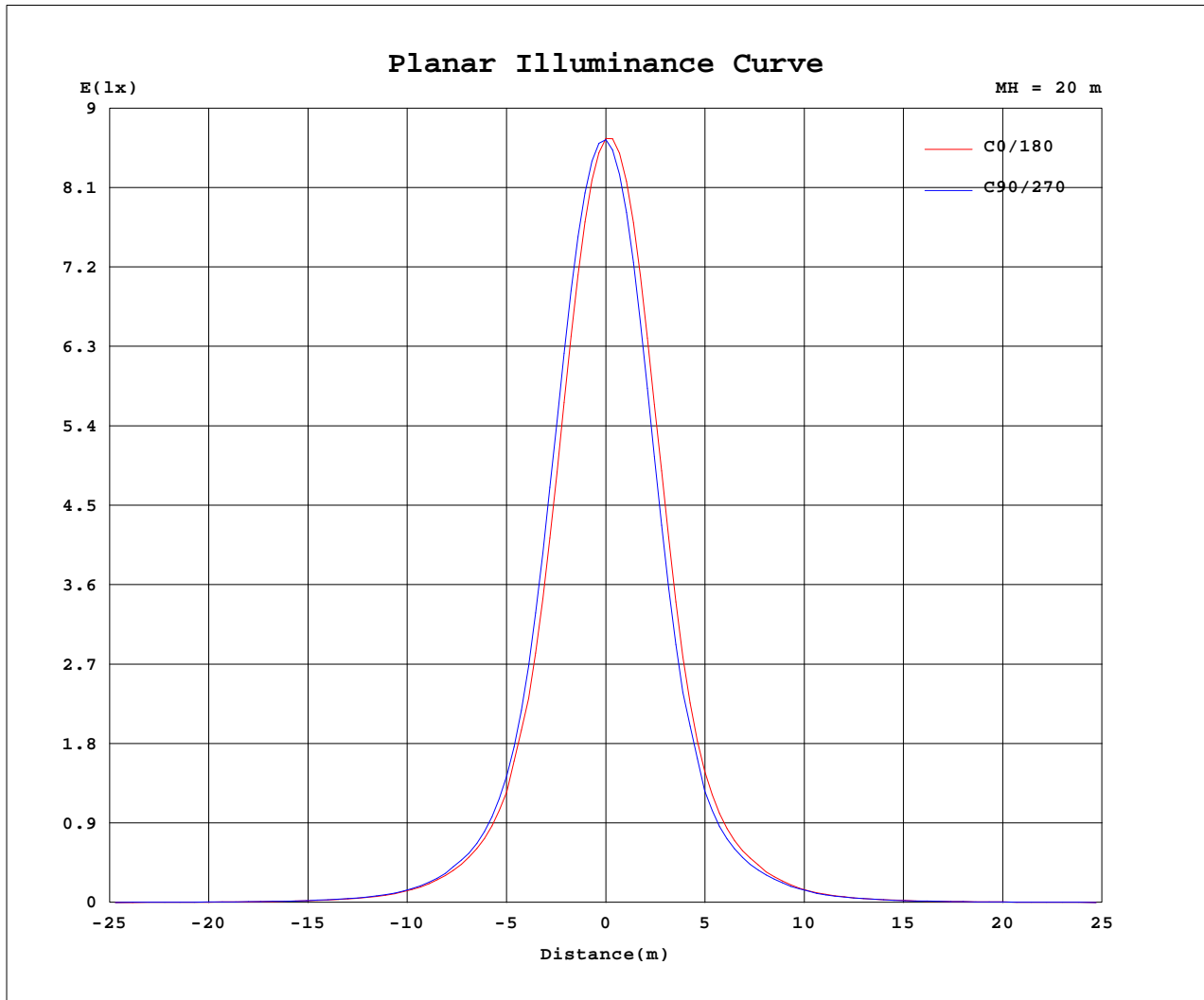
AvgL	cd/m2
L_0~180(65)av	2061
L_0~180(75)av	617
L_0~180(85)av	156
L_90~270(65)av	2156
L_90~270(75)av	648
L_90~270(85)av	146
L_45(65)av	1842
L_45(75)av	546
L_45(85)av	68

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-24

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:BXRH-30H1000-B-83 Ra:95
LENS:PM-0144 15R
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: 2024-12-24

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: BXRH-30H1000-B-83 Ra: 95
 LENS: PM-0144 15R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.2450A P:11.759W PF:1.0000 Freq:49.99Hz Lamp Flux:1050.8x1 lm		
NAME: OZ48-SBZ-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412241497
MFR.: RISE	SUR.: 0.001319585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3463	3463	3463	3463	3463	3463	3463	3463	3463	3463	3463	3463						
5	2596	2663	2716	2808	2855	2846	2873	2791	2736	2663	2647	2631						
10	1185	1253	1284	1376	1420	1420	1428	1339	1293	1226	1231	1208						
15	463	486	487	524	539	544	542	501	486	464	478	209						
20	209	220	213	233	236	244	244	223	221	210	221	0.00						
25	94.7	97.3	97.7	103	106	107	107	103	102	99.1	101	0.00						
30	43.8	44.6	44.5	46.7	47.7	48.2	48.0	46.4	46.5	45.7	46.6	0.00						
35	22.0	22.4	22.5	23.3	23.6	23.9	23.9	23.4	23.8	23.5	23.6	0.00						
40	12.0	12.2	12.4	12.7	12.9	13.1	13.1	12.9	13.1	13.1	12.9	0.00						
45	7.30	7.41	7.61	7.84	8.04	8.13	7.98	7.89	8.10	8.22	7.92	0.00						
50	5.06	5.13	5.22	5.37	5.62	5.74	5.58	5.49	5.63	5.76	5.47	0.00						
55	3.72	3.77	3.80	3.93	4.16	4.33	4.15	4.08	4.15	4.25	3.98	0.00						
60	2.39	2.42	2.42	2.53	2.72	2.95	2.78	2.71	2.77	2.79	2.59	0.00						
65	1.02	1.03	1.03	1.12	1.24	1.42	1.28	1.23	1.28	1.29	1.12	0.00						
70	0.49	0.49	0.47	0.53	0.60	0.72	0.61	0.57	0.62	0.62	0.52	0.00						
75	0.19	0.19	0.18	0.20	0.22	0.29	0.23	0.21	0.24	0.25	0.19	0.00						
80	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.00						
85	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.01	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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