

Luminaire Photograph



Light Output Ratio:	46.0%	
Luminaire Power:	17.56 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-10-12

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-1000-K-23 Ra: 90
LENS: PM-1096C 50R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

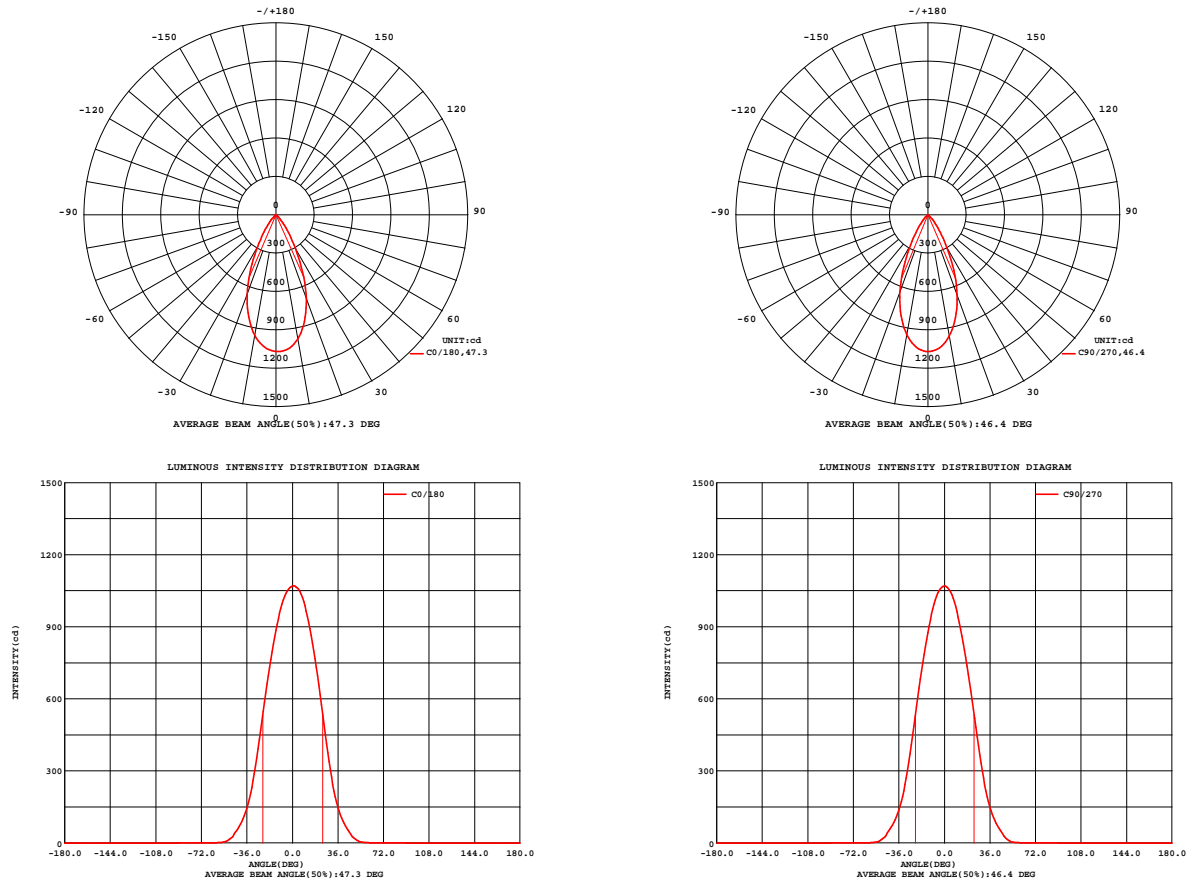


Fig. C0/C180

Fig. C90/C270

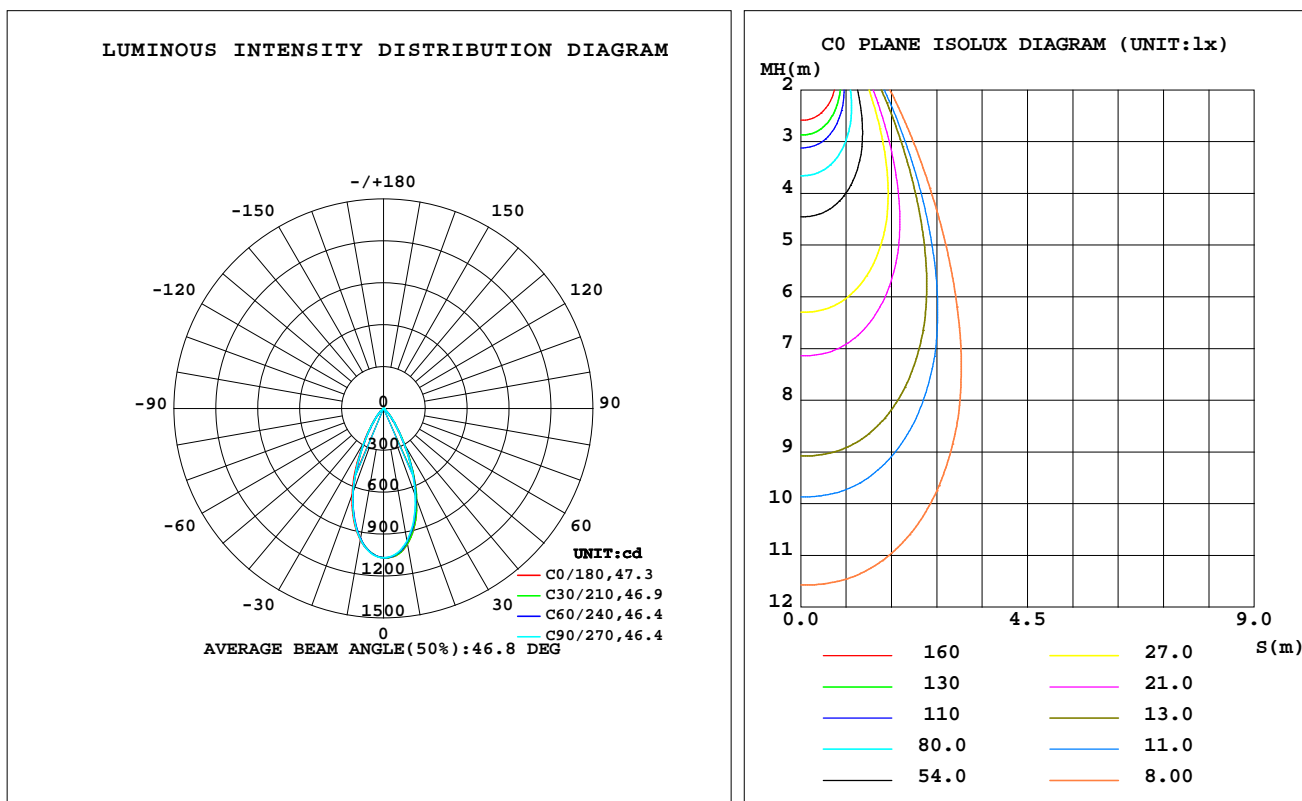
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.1471A P:17.563W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.133-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310121219
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 39.16 lm/W			
MODEL	Bridgelux	Imax(cd)	1070	S/MH(C0/180)	0.73
NOMINAL POWER(W)	17	LOR(%)	46.0	S/MH(C90/270)	0.72
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	687.74	η UP,DN(C0-180)	0.0,23.5
NOMINAL FLUX(lm)	1493.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,22.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	46.0	CIBSE SHR MAX	0.75



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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
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ZONAL FLUX DIAGRAM

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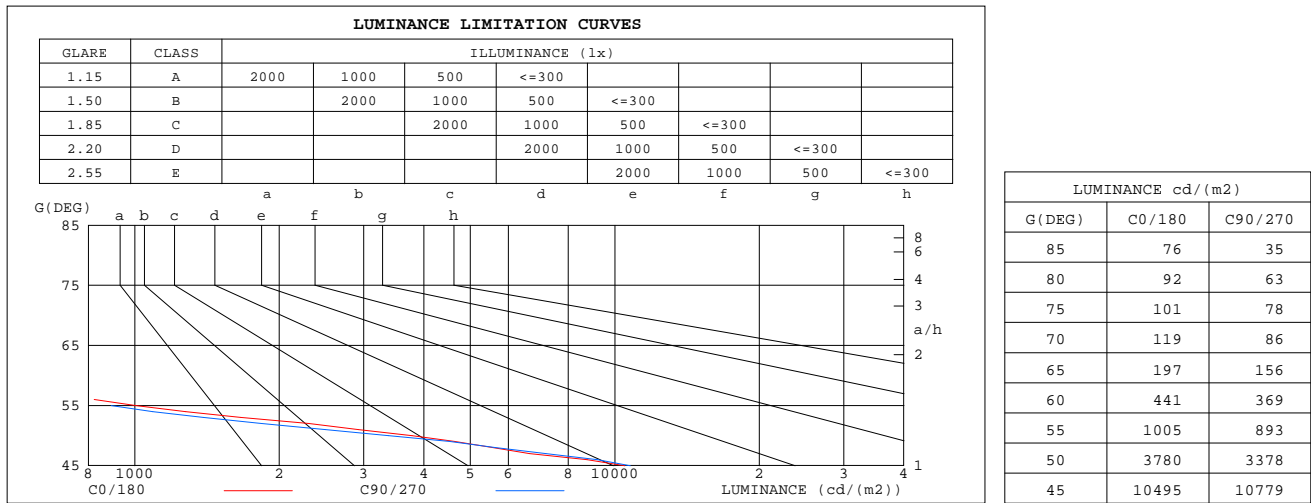
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	986.1	977.3	962.9	960.3	957.0	948.5	953.0	972.9	0- 10	97.17	97.17	14.1,6.51
20	695.6	685.8	667.3	666.9	661.2	642.0	644.5	673.8	10- 20	230.2	327.4	47.6,21.9
30	305.2	305.5	299.8	299.7	288.5	271.0	271.6	288.2	20- 30	214.3	541.7	78.8,36.3
40	91.98	93.75	93.29	92.88	88.44	84.04	84.86	87.43	30- 40	106.3	648.0	94.2,43.4
50	15.09	14.92	13.50	14.78	13.98	12.73	12.13	13.77	40- 50	34.91	682.9	99.3,45.7
60	1.370	1.332	1.148	1.323	1.269	1.162	1.006	1.196	50- 60	4.117	687.0	99.9,46
70	0.2536	0.2194	0.1833	0.2178	0.2435	0.2253	0.2072	0.2233	60- 70	0.5353	687.6	100,46
80	0.0996	0.0764	0.0682	0.0792	0.1028	0.0836	0.0758	0.0827	70- 80	0.1539	687.7	100,46
90	0	0	0	0	0	0	0	0	80- 90	0.0344	687.7	100,46
100	0	0	0	0	0	0	0	0	90-100	0	687.7	100,46
110	0	0	0	0	0	0	0	0	100-110	0	687.7	100,46
120	0	0	0	0	0	0	0	0	110-120	0	687.7	100,46
130	0	0	0	0	0	0	0	0	120-130	0	687.7	100,46
140	0	0	0	0	0	0	0	0	130-140	0	687.7	100,46
150	0	0	0	0	0	0	0	0	140-150	0	687.7	100,46
160	0	0	0	0	0	0	0	0	150-160	0	687.7	100,46
170	0	0	0	0	0	0	0	0	160-170	0	687.7	100,46
180	0	0	0	0	0	0	0	0	170-180	0	687.7	100,46
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



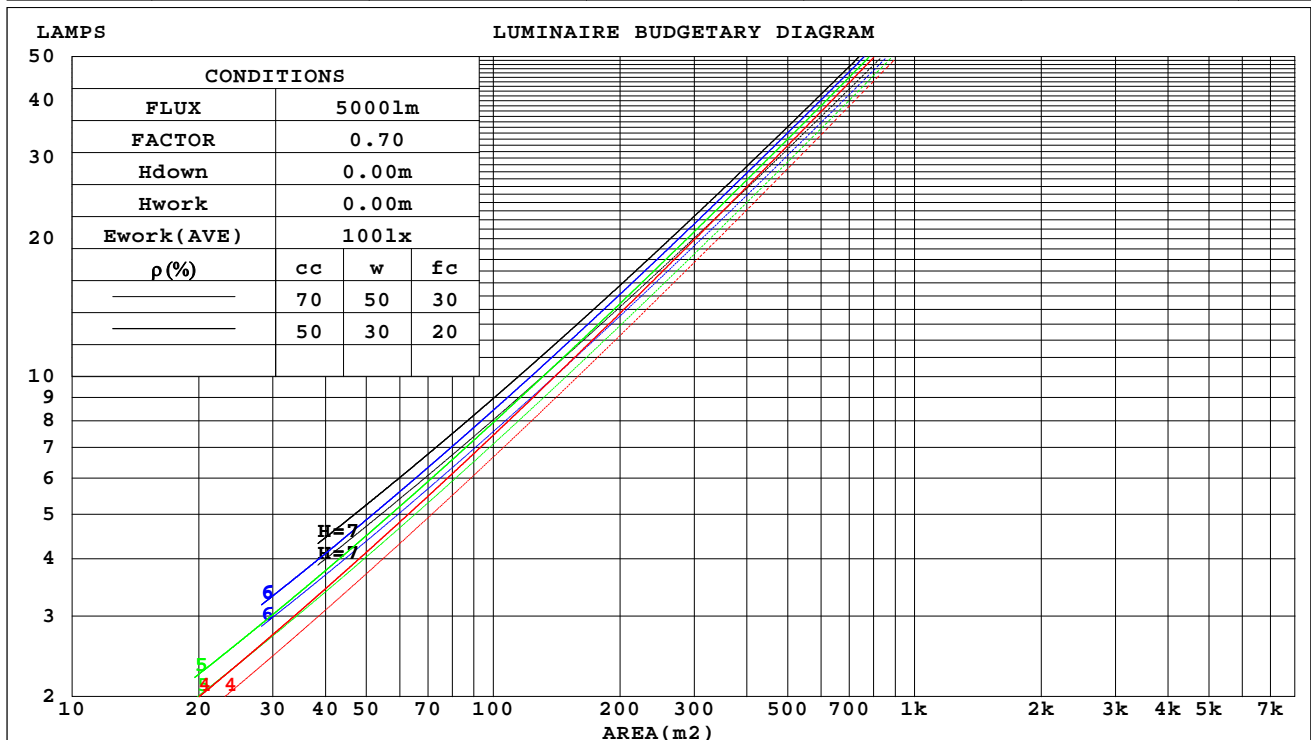
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2310121219
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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															Coefficients of Utilization(CU)														
0.0	.55	.55	.55	.54	.54	.54	.51	.51	.51	.49	.49	.49	.47	.47	.47	.46														
1.0	.51	.50	.49	.50	.49	.48	.48	.48	.47	.47	.46	.46	.45	.45	.44	.43														
2.0	.48	.46	.45	.47	.46	.44	.46	.44	.43	.44	.43	.42	.43	.42	.42	.41														
3.0	.45	.43	.41	.44	.42	.41	.43	.42	.40	.42	.41	.40	.41	.40	.39	.38														
4.0	.42	.40	.38	.42	.40	.38	.41	.39	.38	.40	.38	.37	.39	.38	.37	.36														
5.0	.40	.37	.36	.40	.37	.35	.39	.37	.35	.38	.36	.35	.37	.36	.35	.34														
6.0	.38	.35	.33	.37	.35	.33	.37	.35	.33	.36	.34	.33	.35	.34	.33	.32														
7.0	.36	.33	.31	.35	.33	.31	.35	.33	.31	.34	.32	.31	.34	.32	.31	.30														
8.0	.34	.31	.30	.34	.31	.30	.33	.31	.29	.33	.31	.29	.32	.30	.29	.29														
9.0	.32	.30	.28	.32	.30	.28	.32	.29	.28	.31	.29	.28	.31	.29	.28	.27														
10.0	.31	.28	.27	.30	.28	.26	.30	.28	.26	.30	.28	.26	.29	.28	.26	.26														



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2310121219
MFR.: RISE	SUR.: 0.006217985m2	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	.077	.044	.014	.074	.042	.013	.068	.039	.013	.063	.036	.012	.058	.034	.011	
2.0	.074	.040	.012	.071	.039	.012	.066	.037	.011	.062	.035	.011	.058	.033	.010	
3.0	.070	.037	.011	.068	.036	.011	.064	.035	.010	.060	.033	.010	.056	.031	.010	
4.0	.067	.035	.010	.065	.034	.010	.061	.032	.010	.058	.031	.009	.055	.030	.009	
5.0	.063	.032	.009	.062	.032	.009	.059	.031	.009	.056	.030	.009	.053	.028	.009	
6.0	.061	.030	.009	.059	.030	.009	.057	.029	.008	.054	.028	.008	.052	.027	.008	
7.0	.058	.029	.008	.057	.028	.008	.054	.027	.008	.052	.027	.008	.050	.026	.008	
8.0	.056	.027	.008	.054	.027	.008	.052	.026	.007	.050	.025	.007	.048	.025	.007	
9.0	.053	.026	.007	.052	.025	.007	.050	.025	.007	.049	.024	.007	.047	.024	.007	
10.0	.051	.025	.007	.050	.024	.007	.049	.024	.007	.047	.023	.007	.045	.023	.007	

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	.088	.088	.088	.075	.075	.075	.051	.051	.051	.029	.029	.029	.009	.009	.009		
1.0	.078	.072	.067	.067	.062	.058	.046	.043	.040	.026	.025	.023	.008	.008	.008		
2.0	.071	.061	.052	.061	.053	.045	.042	.036	.032	.024	.021	.019	.008	.007	.006		
3.0	.065	.052	.042	.056	.045	.036	.038	.031	.025	.022	.018	.015	.007	.006	.005		
4.0	.060	.045	.034	.052	.039	.030	.036	.027	.021	.021	.016	.012	.007	.005	.004		
5.0	.056	.040	.028	.048	.035	.024	.033	.024	.017	.019	.014	.010	.006	.005	.003		
6.0	.053	.036	.023	.045	.031	.020	.031	.022	.014	.018	.013	.009	.006	.004	.003		
7.0	.050	.032	.020	.043	.028	.017	.030	.020	.012	.017	.012	.007	.006	.004	.002		
8.0	.047	.029	.017	.040	.025	.015	.028	.018	.011	.016	.011	.006	.005	.003	.002		
9.0	.045	.027	.015	.038	.023	.013	.027	.016	.009	.016	.010	.005	.005	.003	.002		
10.0	.043	.025	.013	.037	.022	.011	.025	.015	.008	.015	.009	.005	.005	.003	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2310121219		
MFR.: RISE					SUR.: 0.006217985m2			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	14.8	14.2	15.0	15.1	13.9	14.8	14.1	14.9	15.1
3H	13.8	14.6	14.0	14.8	15.0	13.7	14.5	14.0	14.7	14.9
4H	13.7	14.5	14.0	14.7	14.9	13.6	14.4	13.9	14.6	14.8
6H	13.6	14.3	13.9	14.6	14.8	13.5	14.2	13.8	14.5	14.7
8H	13.6	14.2	13.9	14.5	14.8	13.5	14.2	13.8	14.4	14.7
12H	13.5	14.2	13.8	14.4	14.7	13.4	14.1	13.8	14.4	14.6
4H 2H	13.7	14.5	14.0	14.7	14.9	13.6	14.4	13.9	14.6	14.8
3H	13.5	14.2	13.8	14.4	14.7	13.4	14.1	13.8	14.4	14.6
4H	13.4	14.0	13.8	14.3	14.6	13.3	13.9	13.7	14.2	14.5
6H	13.3	13.8	13.7	14.2	14.5	13.2	13.8	13.6	14.1	14.5
8H	13.3	13.8	13.7	14.1	14.5	13.2	13.7	13.6	14.0	14.4
12H	13.2	13.7	13.6	14.0	14.4	13.1	13.6	13.6	14.0	14.4
8H 4H	13.3	13.8	13.7	14.1	14.5	13.2	13.7	13.6	14.0	14.4
6H	13.2	13.6	13.6	14.0	14.4	13.1	13.5	13.5	13.9	14.3
8H	13.1	13.5	13.6	13.9	14.3	13.0	13.4	13.5	13.8	14.2
12H	13.1	13.4	13.5	13.8	14.3	13.0	13.3	13.4	13.7	14.2
12H 4H	13.2	13.7	13.6	14.0	14.4	13.1	13.6	13.6	14.0	14.4
6H	13.1	13.5	13.6	13.9	14.3	13.0	13.4	13.5	13.8	14.2
8H	13.1	13.4	13.5	13.8	14.3	13.0	13.3	13.4	13.7	14.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.0 / -17.5					+ 3.1 / -18.3				
1.5H	+ 5.0 / -13.6					+ 5.0 / -14.8				
2.0H	+ 7.4 / -15.3					+ 7.6 / -16.7				

CIE Pub.117, 1494 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
Area: 0.00621798 m2

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UTILIZATION FACTORS TABLE

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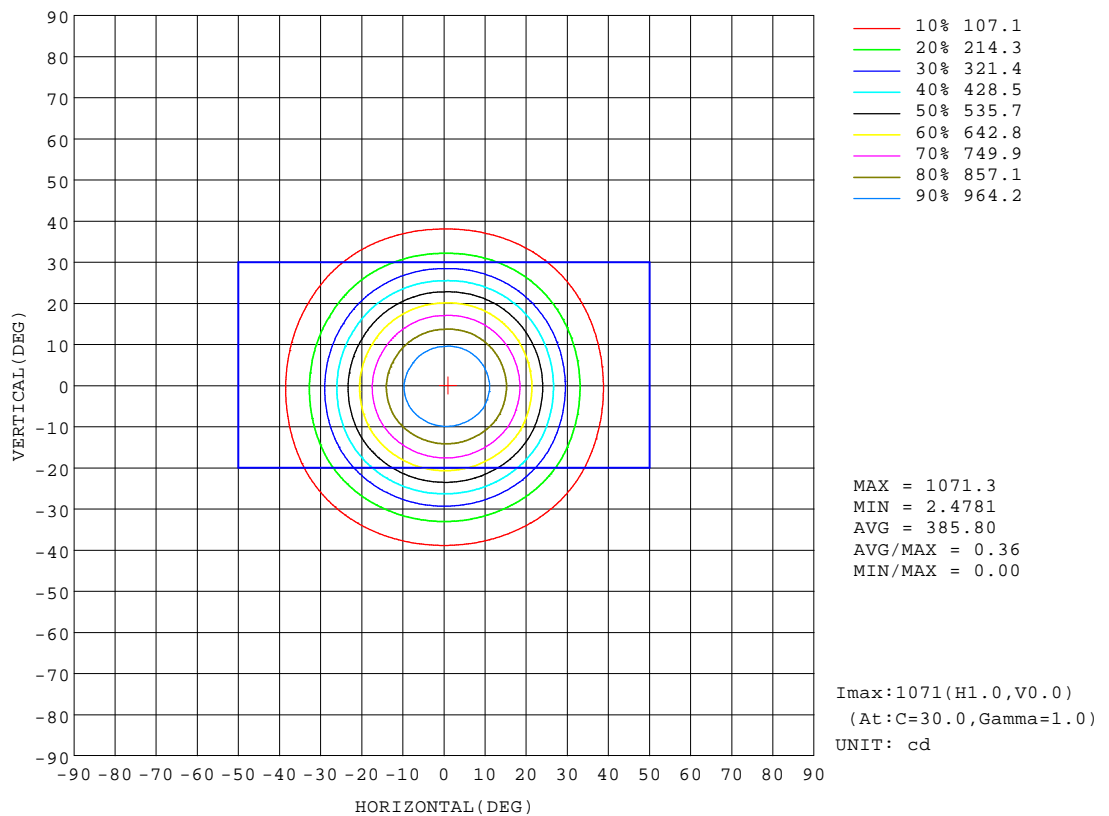
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	40	38	36	40	38	36	40	37	36	34
0.80	44	41	40	44	41	40	43	41	39	38
1.00	46	43	42	46	43	42	45	43	41	40
1.25	48	45	44	47	45	44	46	45	43	41
1.50	49	47	45	48	47	45	47	46	45	43
2.00	50	48	47	50	48	47	48	47	46	43
2.50	51	49	48	50	49	47	49	48	47	44
3.00	52	50	49	51	49	48	49	48	47	44
4.00	52	51	50	52	51	50	50	49	48	45
5.00	53	52	51	52	51	50	50	50	49	46
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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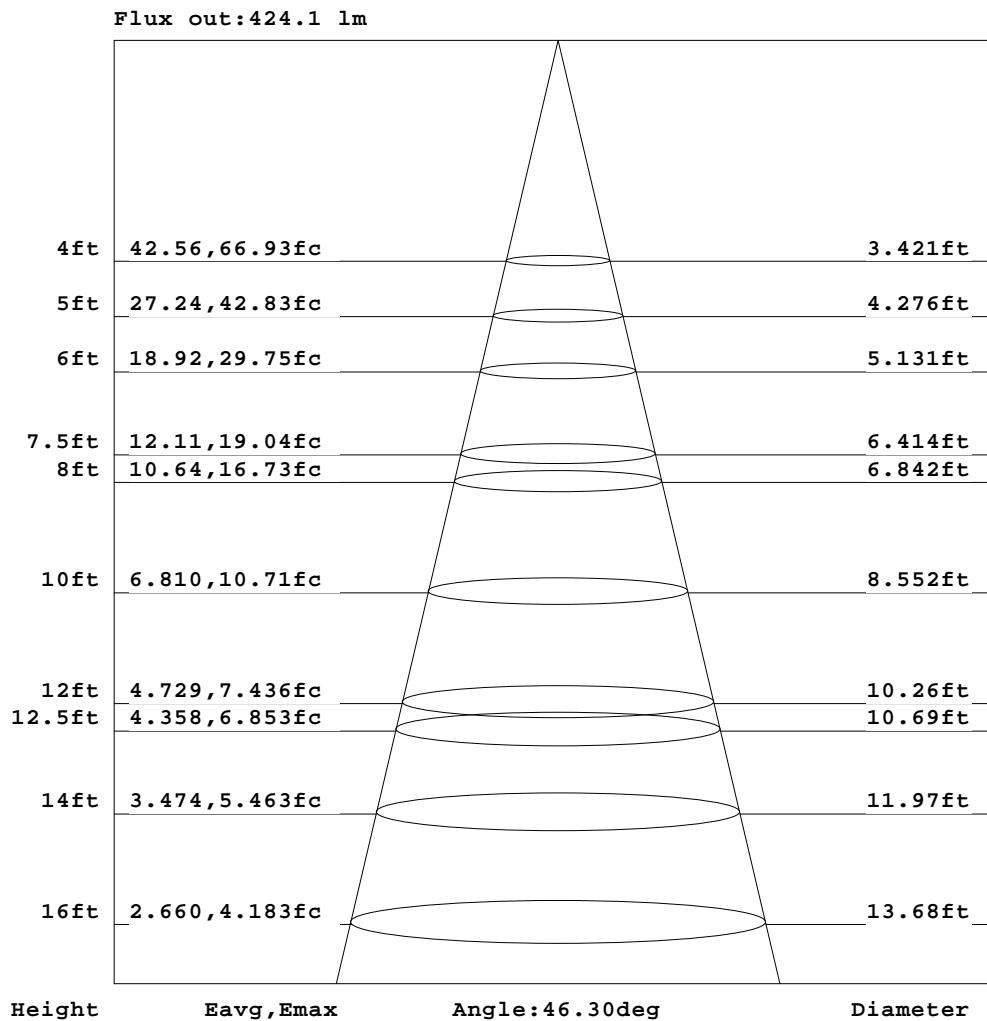


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30minutes warm-up

AAI Figure

Test:U:120.07V I:0.1471A P:17.563W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.133-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310121219
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



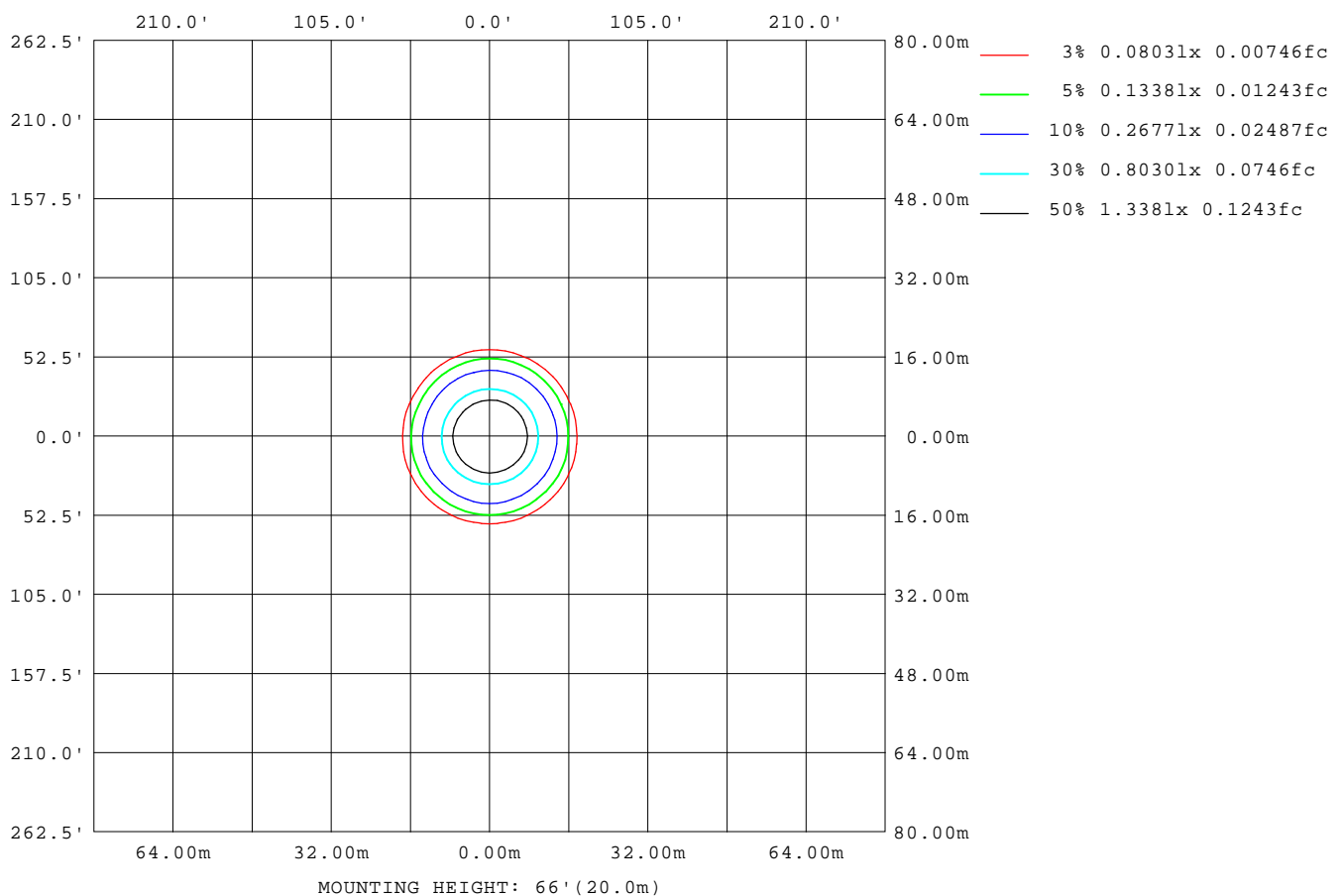
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-10-12

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-1000-K-23 Ra:90
LENS:PM-1096C 50R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.07V I:0.1471A P:17.563W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.133-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310121219
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-10-12

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-1000-K-23 Ra:90
LENS:PM-1096C 50R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LED Avg.L Report

Test:U:120.07V I:0.1471A P:17.563W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.133-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310121219
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

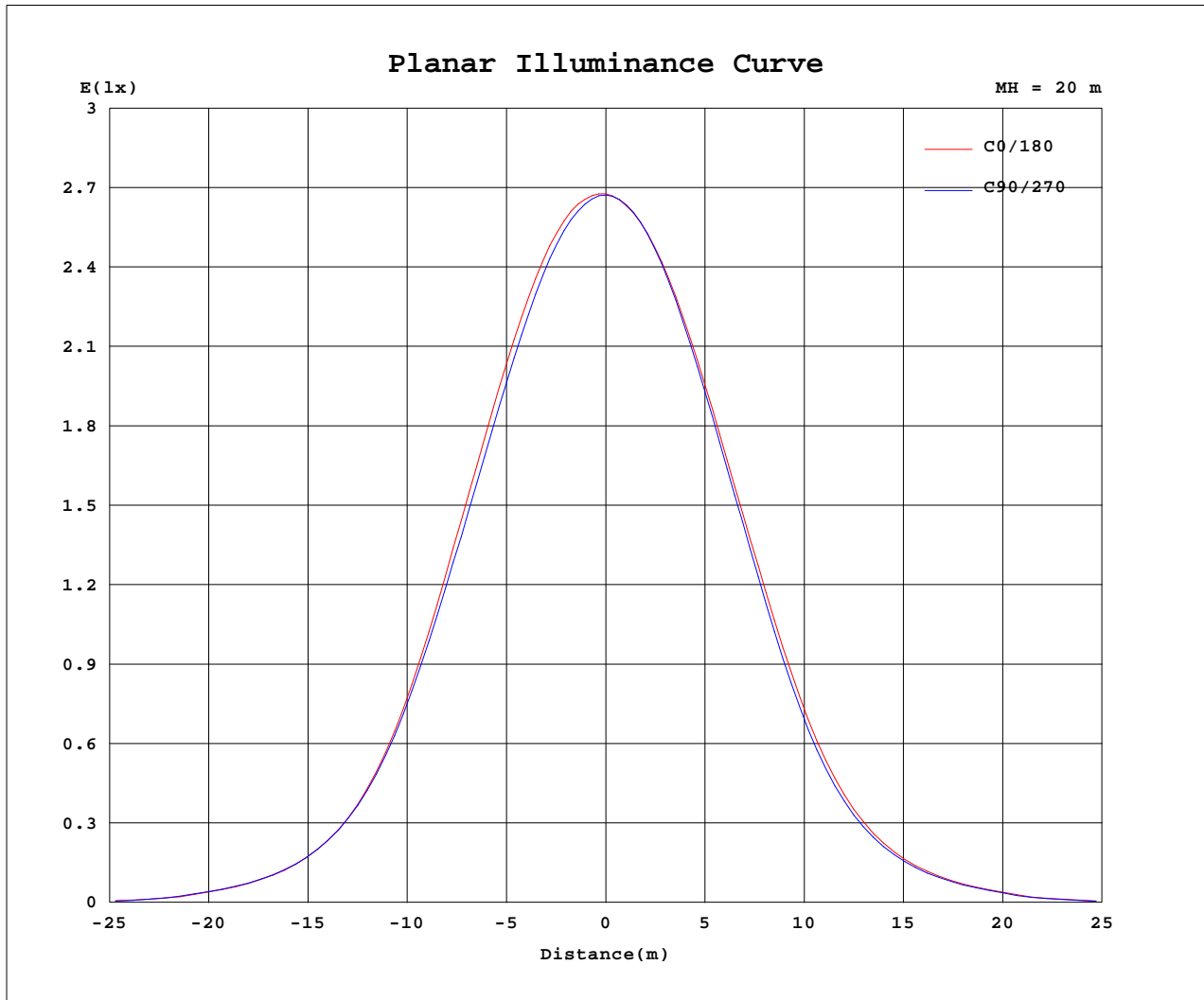
AvgL	cd/m2
L_0~180(65)av	189
L_0~180(75)av	102
L_0~180(85)av	79
L_90~270(65)av	148
L_90~270(75)av	83
L_90~270(85)av	39
L_45(65)av	176
L_45(75)av	89
L_45(85)av	42

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-10-12

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-1000-K-23 Ra:90
LENS:PM-1096C 50R
DRIVER: PUP20A-1WMC 450mA
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: 2023-10-12

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-1000-K-23 Ra: 90
 LENS: PM-1096C 50R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.1471A P:17.563W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.133-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310121219
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
γ (DEC)																		
0	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069	1069						
5	1055	1055	1048	1044	1041	1041	1038	1036	1038	1041	1047	1052						
10	986	984	970	963	959	961	957	948	949	953	967	979						
15	863	862	843	833	829	834	827	814	811	816	835	852						
20	696	695	676	667	664	670	661	644	640	645	665	682						
25	495	499	485	480	478	481	468	449	444	447	464	481						
30	305	310	301	300	299	301	288	273	270	272	283	294						
35	171	175	170	171	170	171	163	153	153	154	159	164						
40	92.0	94.6	92.9	93.3	92.9	92.8	88.4	83.8	84.2	84.9	86.2	88.6						
45	46.1	47.7	47.0	47.4	47.1	46.7	44.3	41.5	42.2	42.1	43.0	43.9						
50	15.1	15.7	14.2	13.5	14.2	15.3	14.0	12.9	12.5	12.1	13.3	14.2						
55	3.58	3.88	3.31	3.18	3.44	3.81	3.34	3.15	2.92	2.81	3.03	3.31						
60	1.37	1.44	1.22	1.15	1.25	1.39	1.27	1.23	1.10	1.01	1.12	1.27						
65	0.52	0.55	0.44	0.41	0.44	0.51	0.48	0.47	0.40	0.37	0.40	0.47						
70	0.25	0.25	0.19	0.18	0.19	0.24	0.24	0.24	0.21	0.21	0.21	0.24						
75	0.16	0.15	0.13	0.13	0.13	0.15	0.17	0.15	0.14	0.14	0.14	0.15						
80	0.10	0.08	0.07	0.07	0.07	0.09	0.10	0.09	0.08	0.08	0.08	0.09						
85	0.04	0.03	0.02	0.02	0.02	0.03	0.04	0.03	0.02	0.02	0.02	0.03						
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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