

Luminaire Photograph



Light Output Ratio:	70.6%	
Luminaire Power:	17.29 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: 2023-7-13

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-1096 15R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

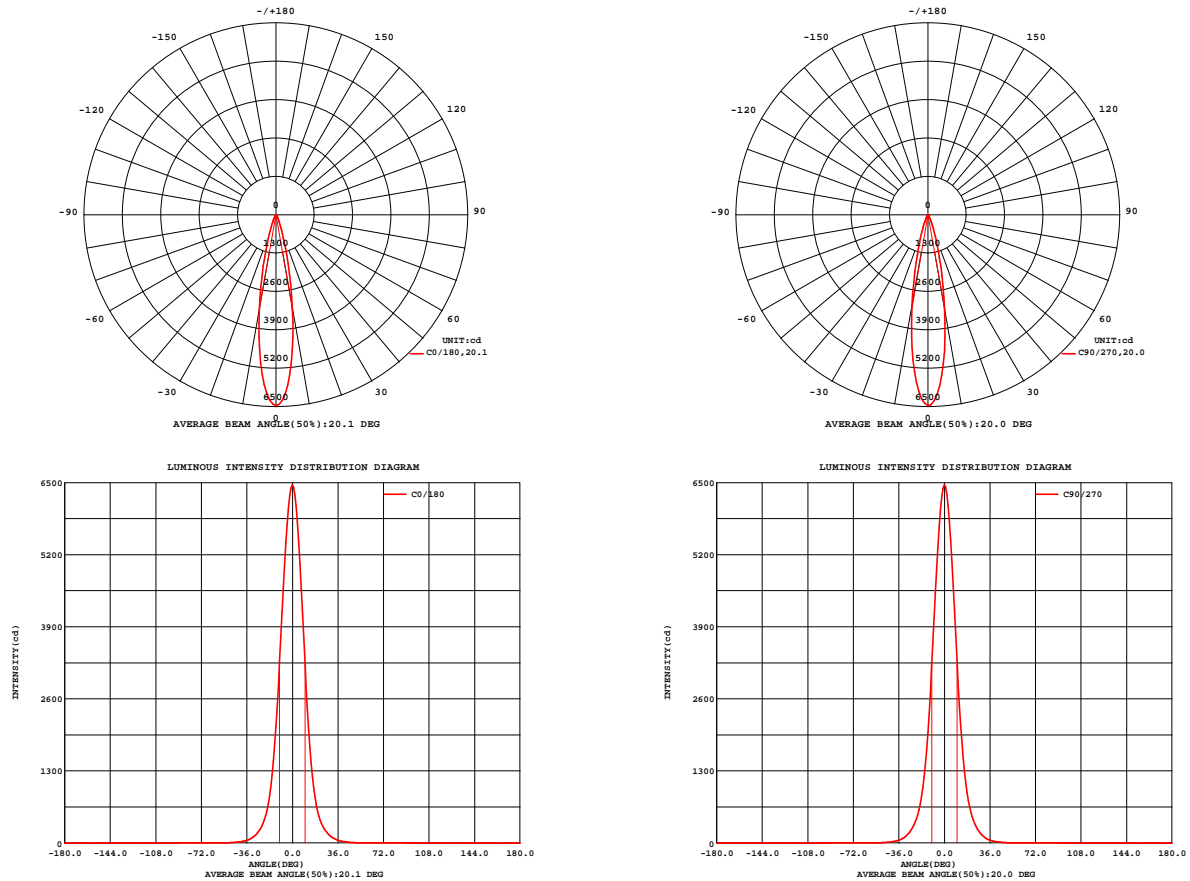


Fig. C0/C180

Fig. C90/C270

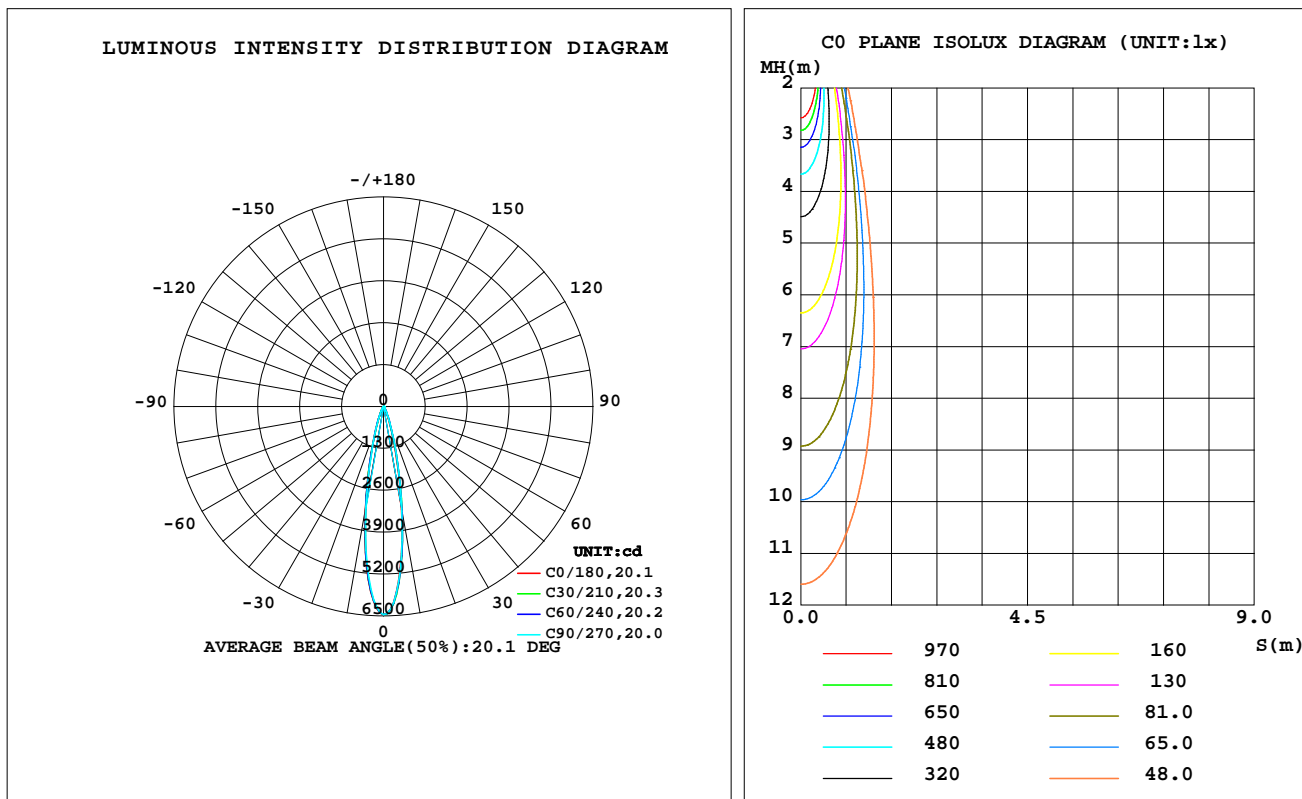
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.1448A P:17.294W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120895
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 61.00 lm/W
MODEL	Bridgelux	I _{max} (cd)	6460	S/MH(C0/180)		0.35
NOMINAL POWER(W)	17	LOR(%)	70.6	S/MH(C90/270)		0.34
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1054.9	η UP,DN(C0-180)		0.0,36.0
NOMINAL FLUX(lm)	1493.63	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.0,34.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE(V)	120	η down(%)	70.6	CIBSE SHR MAX		0.30



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3243	3335	3295	3270	3275	3231	3149	3122	0- 10	444.1	444.1	42.1,29.7
20	571.1	641.6	654.8	607.4	588.7	609.7	595.3	554.6	10- 20	421.8	865.9	82.1,58
30	126.5	136.9	137.6	126.9	122.4	128.0	128.4	120.3	20- 30	135.0	1001	94.9,67
40	28.24	29.02	27.97	26.39	25.70	26.31	27.00	27.00	30- 40	39.52	1040	98.6,69.7
50	5.624	5.745	5.709	5.419	5.238	5.215	5.294	5.289	40- 50	10.47	1051	99.6,70.4
60	1.705	1.670	1.745	1.743	1.715	1.769	1.645	1.569	50- 60	2.828	1054	99.9,70.5
70	0.4126	0.4626	0.5029	0.5304	0.5435	0.5368	0.4930	0.4029	60- 70	0.9318	1055	100,70.6
80	0.0773	0.0599	0.0534	0.0898	0.1656	0.0884	0.0446	0.0523	70- 80	0.2658	1055	100,70.6
90	0	0	0	0	0	0	0	0	80- 90	0.0285	1055	100,70.6
100	0	0	0	0	0	0	0	0	90-100	0	1055	100,70.6
110	0	0	0	0	0	0	0	0	100-110	0	1055	100,70.6
120	0	0	0	0	0	0	0	0	110-120	0	1055	100,70.6
130	0	0	0	0	0	0	0	0	120-130	0	1055	100,70.6
140	0	0	0	0	0	0	0	0	130-140	0	1055	100,70.6
150	0	0	0	0	0	0	0	0	140-150	0	1055	100,70.6
160	0	0	0	0	0	0	0	0	150-160	0	1055	100,70.6
170	0	0	0	0	0	0	0	0	160-170	0	1055	100,70.6
180	0	0	0	0	0	0	0	0	170-180	0	1055	100,70.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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Lamp Flux:1493.63x1 lm

NAME: 2118.193-LEA-15-DW

TYPE:

WEIGHT:

SPEC.: 3000K

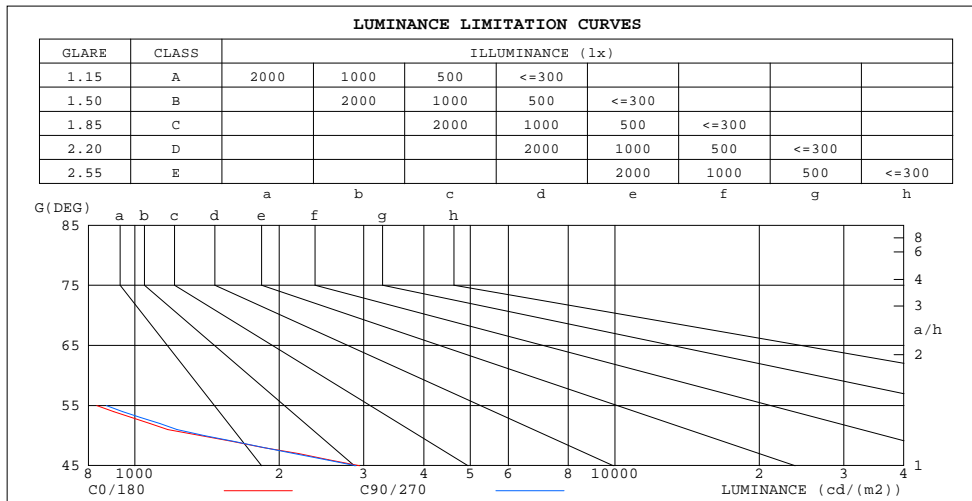
DIM.:

SERIAL No.: 2307120895

MFR.: RISE

SUR.: 0.0063585m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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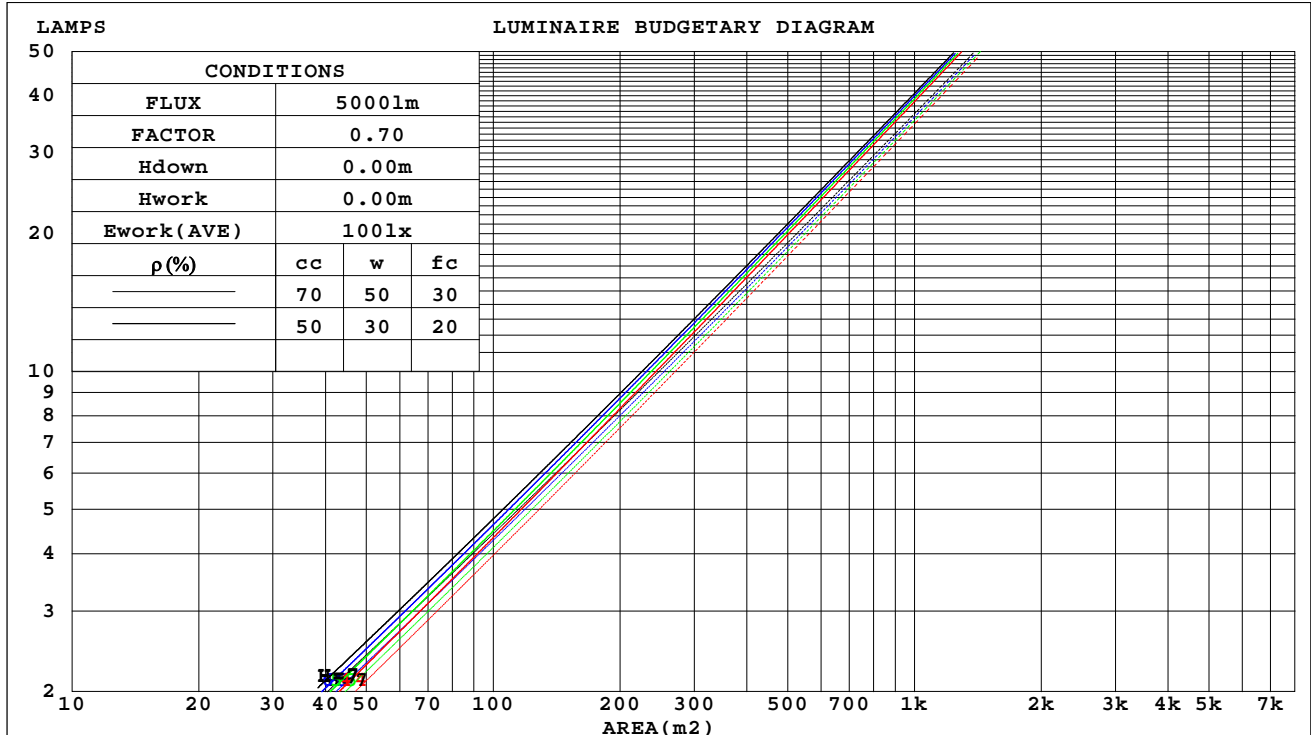
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Shielding Angle:

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	.84	.84	.84	.82	.82	.82	.78	.78	.78	.75	.75	.75	.72	.72	.72	.71
1.0	.80	.79	.77	.78	.77	.76	.76	.75	.74	.73	.72	.72	.71	.70	.70	.68
2.0	.76	.74	.73	.75	.73	.72	.73	.72	.70	.71	.70	.69	.69	.68	.67	.66
3.0	.73	.71	.69	.72	.70	.68	.71	.69	.67	.69	.68	.66	.68	.66	.65	.64
4.0	.71	.68	.66	.70	.67	.66	.69	.66	.65	.67	.65	.64	.66	.65	.63	.63
5.0	.68	.65	.63	.68	.65	.63	.67	.64	.63	.65	.64	.62	.65	.63	.62	.61
6.0	.66	.63	.61	.66	.63	.61	.65	.62	.61	.64	.62	.60	.63	.61	.60	.59
7.0	.64	.61	.59	.64	.61	.59	.63	.61	.59	.62	.60	.59	.62	.60	.58	.58
8.0	.62	.60	.58	.62	.59	.58	.61	.59	.57	.61	.59	.57	.60	.58	.57	.56
9.0	.61	.58	.56	.60	.58	.56	.60	.58	.56	.59	.57	.56	.59	.57	.56	.55
10.0	.59	.57	.55	.59	.56	.55	.59	.56	.55	.58	.56	.54	.58	.56	.54	.54



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WEC AND CCEC

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NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120895
MFR.: RISE	SUR.: 0.0063585m2	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	.093	.053	.017	.089	.051	.016	.080	.046	.015	.072	.041	.013	.064	.037	.012	
2.0	.086	.047	.014	.082	.045	.014	.075	.042	.013	.069	.038	.012	.062	.035	.011	
3.0	.080	.043	.013	.077	.041	.012	.071	.038	.012	.065	.036	.011	.060	.033	.010	
4.0	.075	.039	.011	.072	.038	.011	.067	.036	.011	.063	.034	.010	.058	.032	.010	
5.0	.070	.036	.010	.068	.035	.010	.064	.033	.010	.060	.032	.009	.056	.030	.009	
6.0	.067	.033	.010	.065	.033	.009	.061	.031	.009	.057	.030	.009	.054	.029	.008	
7.0	.063	.031	.009	.061	.031	.009	.058	.029	.008	.055	.028	.008	.052	.027	.008	
8.0	.060	.029	.008	.059	.029	.008	.056	.028	.008	.053	.027	.008	.051	.026	.008	
9.0	.057	.028	.008	.056	.027	.008	.054	.026	.007	.051	.026	.007	.049	.025	.007	
10.0	.055	.026	.007	.054	.026	.007	.051	.025	.007	.049	.025	.007	.047	.024	.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	.135	.135	.135	.115	.115	.115	.078	.078	.078	.045	.045	.045	.014	.014	.014		
1.0	.119	.111	.105	.102	.096	.090	.069	.066	.062	.040	.038	.036	.013	.012	.012		
2.0	.106	.094	.084	.091	.081	.072	.062	.056	.050	.036	.032	.030	.011	.011	.010		
3.0	.095	.080	.068	.081	.069	.059	.056	.048	.041	.032	.028	.024	.010	.009	.008		
4.0	.086	.069	.056	.074	.060	.049	.051	.042	.034	.029	.024	.020	.009	.008	.007		
5.0	.078	.060	.047	.067	.052	.041	.046	.036	.029	.027	.021	.017	.009	.007	.006		
6.0	.072	.053	.040	.062	.046	.035	.043	.032	.025	.025	.019	.015	.008	.006	.005		
7.0	.066	.047	.034	.057	.041	.030	.039	.029	.021	.023	.017	.013	.007	.006	.004		
8.0	.062	.043	.029	.053	.037	.026	.037	.026	.018	.021	.015	.011	.007	.005	.004		
9.0	.058	.038	.026	.050	.033	.022	.034	.023	.016	.020	.014	.009	.006	.005	.003		
10.0	.054	.035	.022	.047	.030	.020	.032	.021	.014	.019	.013	.008	.006	.004	.003		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K						DIM.:		SERIAL No.: 2307120895			
MFR.: RISE						SUR.: 0.0063585m2		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	2H	5.2	5.9	5.4	6.0	6.2	5.4	6.0	5.6	6.2	6.3
	3H	5.1	5.7	5.4	5.9	6.1	5.3	5.8	5.5	6.0	6.2
	4H	5.0	5.6	5.3	5.8	6.0	5.2	5.7	5.5	6.0	6.2
	6H	5.0	5.5	5.2	5.7	5.9	5.1	5.6	5.4	5.9	6.1
	8H	4.9	5.4	5.2	5.7	5.9	5.1	5.6	5.4	5.8	6.1
	12H	4.9	5.4	5.2	5.6	5.9	5.0	5.5	5.3	5.8	6.0
4H	2H	5.0	5.6	5.3	5.8	6.0	5.2	5.7	5.5	6.0	6.2
	3H	4.9	5.4	5.2	5.6	5.9	5.1	5.5	5.4	5.8	6.1
	4H	4.8	5.3	5.1	5.5	5.8	5.0	5.4	5.3	5.7	6.0
	6H	4.7	5.1	5.1	5.4	5.8	4.9	5.3	5.2	5.6	5.9
	8H	4.7	5.0	5.0	5.4	5.7	4.8	5.2	5.2	5.5	5.9
	12H	4.6	4.9	5.0	5.3	5.7	4.8	5.1	5.2	5.5	5.8
8H	4H	4.7	5.0	5.0	5.4	5.7	4.8	5.2	5.2	5.5	5.9
	6H	4.5	4.9	5.0	5.2	5.7	4.7	5.0	5.1	5.4	5.8
	8H	4.5	4.8	4.9	5.2	5.6	4.6	4.9	5.1	5.3	5.8
	12H	4.4	4.7	4.9	5.1	5.6	4.6	4.8	5.0	5.2	5.7
12H	4H	4.6	4.9	5.0	5.3	5.7	4.8	5.1	5.2	5.5	5.8
	6H	4.5	4.8	4.9	5.2	5.6	4.6	4.9	5.1	5.3	5.8
	8H	4.4	4.7	4.9	5.1	5.6	4.6	4.8	5.0	5.2	5.7
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 3.1 / - 8.9					+ 3.2 / - 8.7					
1.5H	+ 5.1 / - 6.8					+ 5.2 / - 6.7					
2.0H	+ 5.7 / - 5.8					+ 5.6 / - 5.9					

CIE Pub.117, 1494 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
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UTILIZATION FACTORS TABLE

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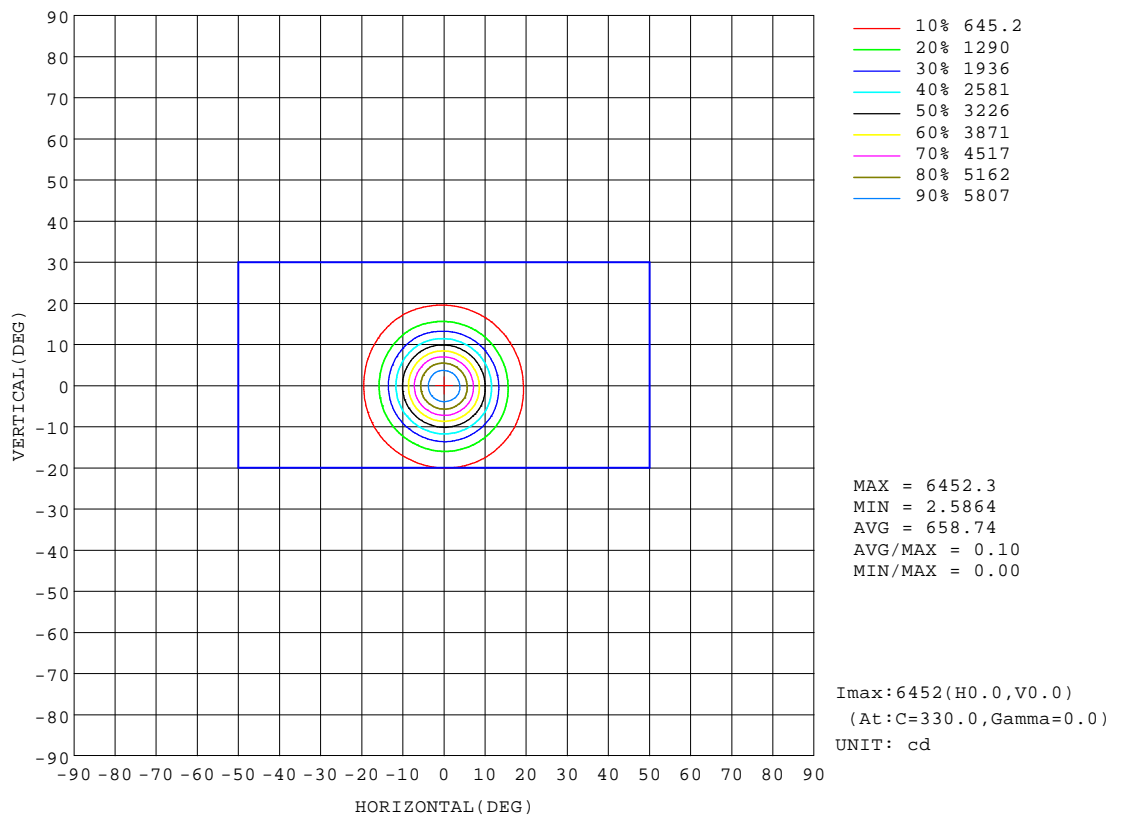
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	60	58	64	60	58	63	60	57	55
0.80	69	65	63	69	65	63	68	65	63	60
1.00	72	68	66	71	68	66	70	68	65	63
1.25	74	71	69	74	71	68	72	70	68	65
1.50	76	73	71	75	72	70	74	71	70	67
2.00	77	75	73	77	74	72	75	73	71	68
2.50	79	76	74	77	75	74	75	74	72	68
3.00	80	77	76	78	76	75	76	74	73	69
4.00	81	79	78	79	78	77	77	76	75	70
5.00	82	80	79	80	79	78	77	77	76	71
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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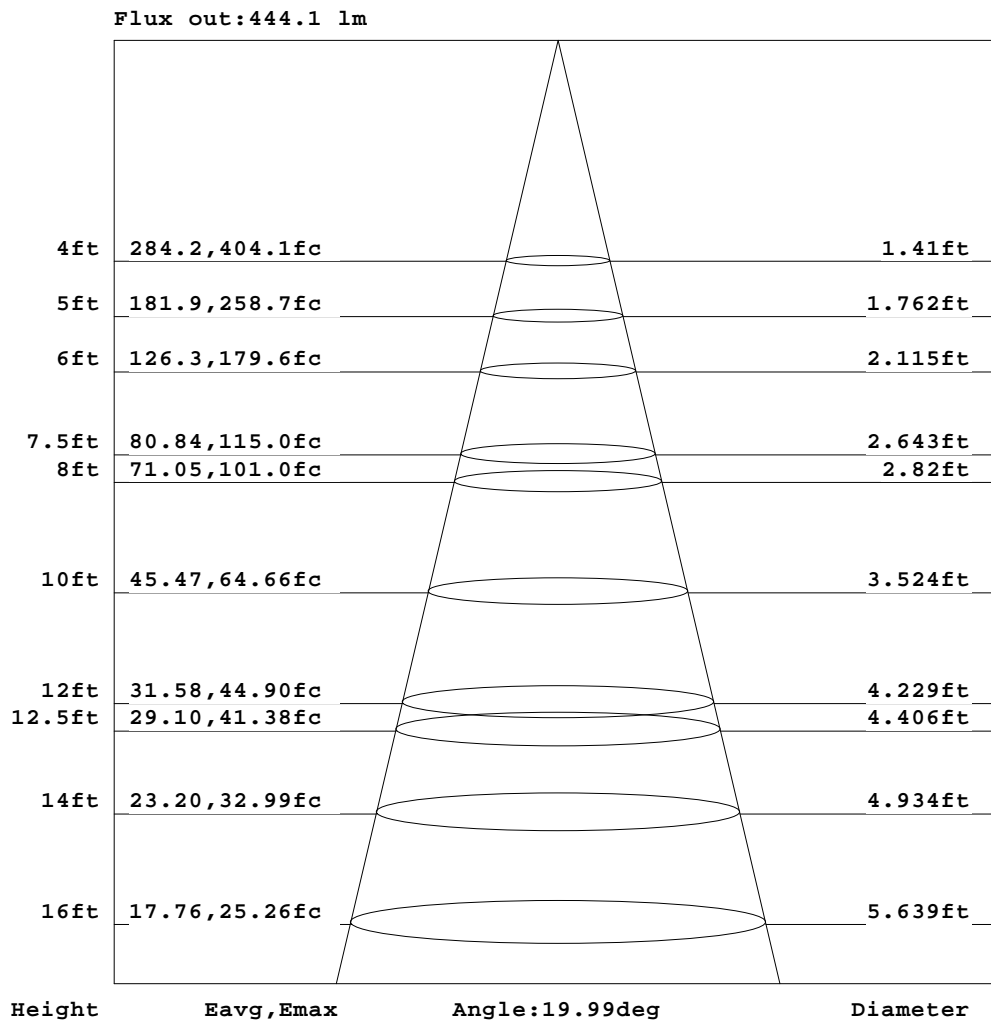


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30minutes warm-up

AAI Figure

Test:U:120.08V I:0.1448A P:17.294W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120895
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:



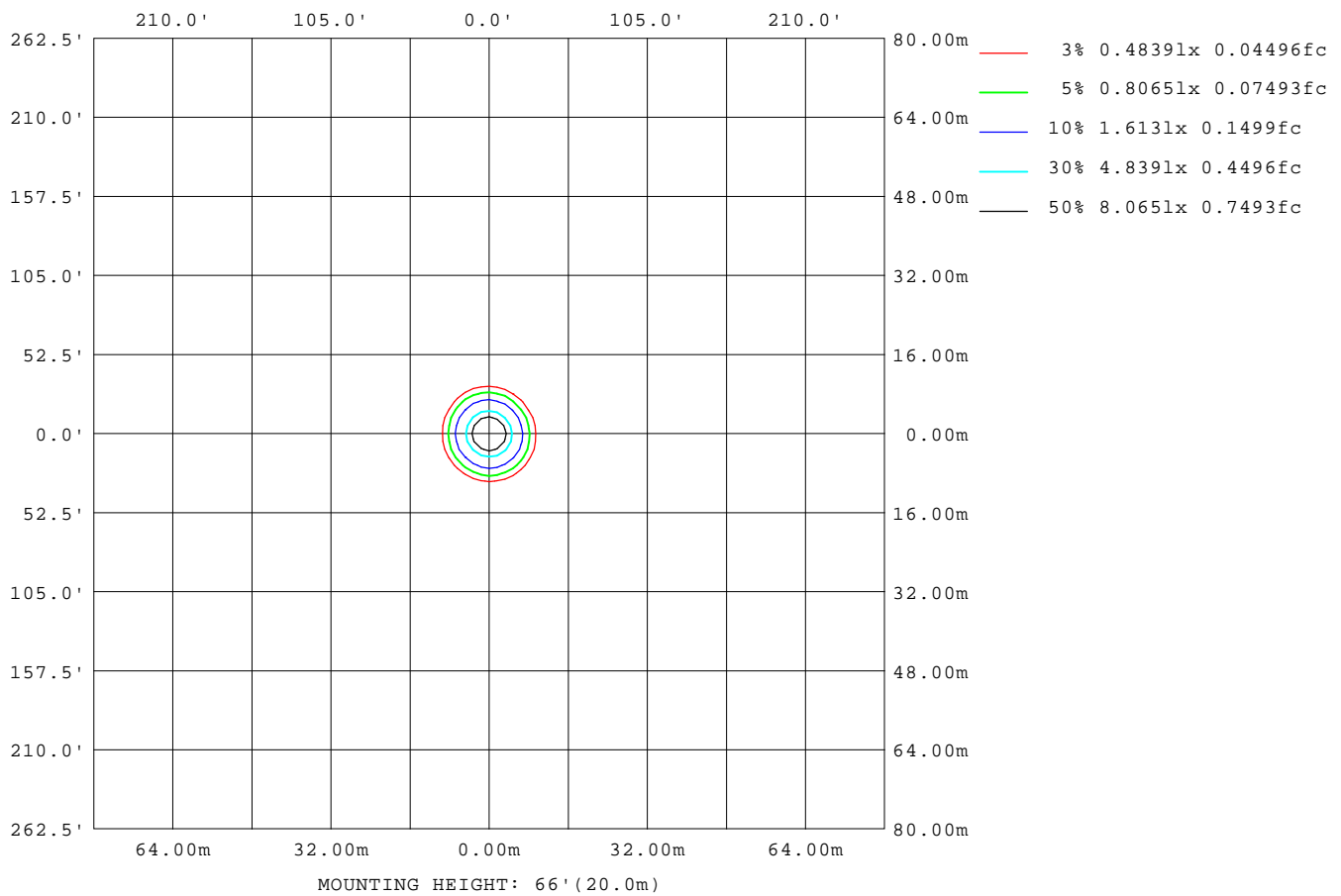
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-7-13

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-1096 15R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.08V I:0.1448A P:17.294W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120895
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-7-13

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-1096 15R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LED Avg.L Report

Test:U:120.08V I:0.1448A P:17.294W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120895
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

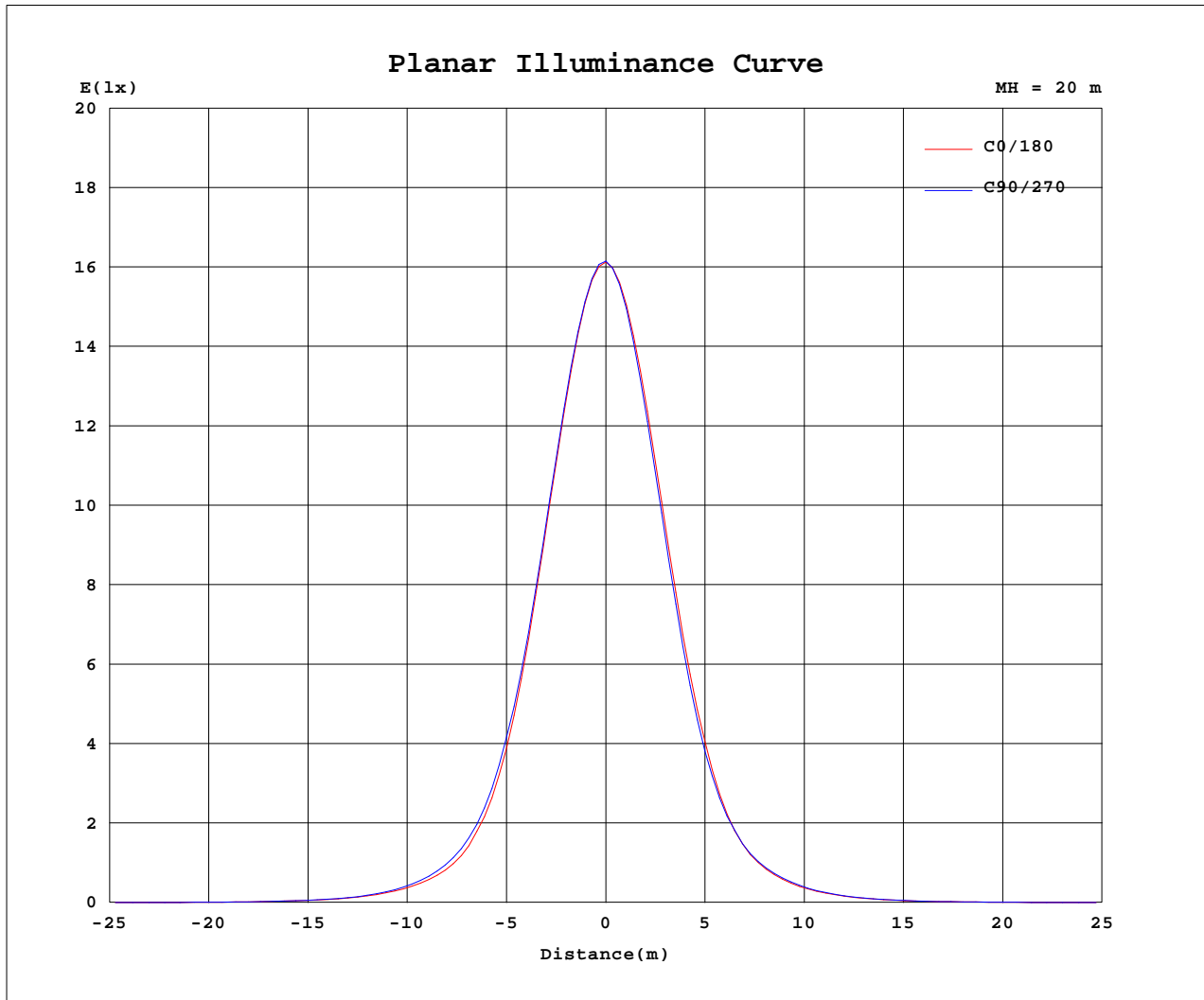
AvgL	cd/m2
L_0~180(65)av	327
L_0~180(75)av	165
L_0~180(85)av	67
L_90~270(65)av	322
L_90~270(75)av	122
L_90~270(85)av	47
L_45(65)av	320
L_45(75)av	145
L_45(85)av	16

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-7-13

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-1096 15R
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: 2023-7-13

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-1000-K-23 Ra: 90
 LENS: PM-1096 15R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.1448A P:17.294W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120895
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	6460	6460	6460	6460	6460	6460	6460	6460	6460	6460	6460	6460						
5	5423	5496	5471	5454	5433	5436	5421	5391	5389	5327	5318	5346						
10	3243	3346	3325	3295	3265	3276	3275	3236	3227	3149	3112	3131						
15	1434	1537	1548	1540	1493	1491	1487	1468	1481	1416	1380	1368						
20	571	627	656	655	613	602	589	598	622	595	563	546						
25	264	288	302	302	280	273	265	269	289	280	259	250						
30	127	134	139	138	128	126	122	123	133	128	121	120						
35	59.5	61.9	62.8	61.1	57.4	56.7	55.0	55.0	58.9	58.4	56.6	57.0						
40	28.2	29.2	28.9	28.0	26.5	26.3	25.7	25.5	27.1	27.0	26.8	27.2						
45	13.2	13.5	13.3	13.0	12.4	12.3	11.9	11.8	12.3	12.4	12.5	12.7						
50	5.62	5.80	5.70	5.71	5.42	5.42	5.24	5.17	5.26	5.29	5.23	5.35						
55	3.04	3.12	3.10	3.18	3.12	3.14	3.04	3.08	3.12	3.02	2.90	2.94						
60	1.71	1.69	1.65	1.74	1.74	1.75	1.71	1.78	1.76	1.64	1.53	1.60						
65	0.81	0.87	0.87	0.88	0.85	0.89	0.94	0.92	0.88	0.86	0.79	0.80						
70	0.41	0.44	0.49	0.50	0.53	0.54	0.54	0.54	0.53	0.49	0.42	0.39						
75	0.22	0.23	0.20	0.20	0.25	0.31	0.33	0.32	0.24	0.20	0.17	0.19						
80	0.08	0.08	0.04	0.05	0.05	0.13	0.17	0.12	0.05	0.04	0.04	0.07						
85	0.04	0.02	0.02	0.03	0.01	0.01	0.03	0.02	0.01	0.02	0.01	0.01						
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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