

Luminaire Photograph



Light Output Ratio:	63.0%	
Luminaire Power:	13.68 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-8-9

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-30G1000-A-83 Ra: 90
LENS: PM-1082C 50R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

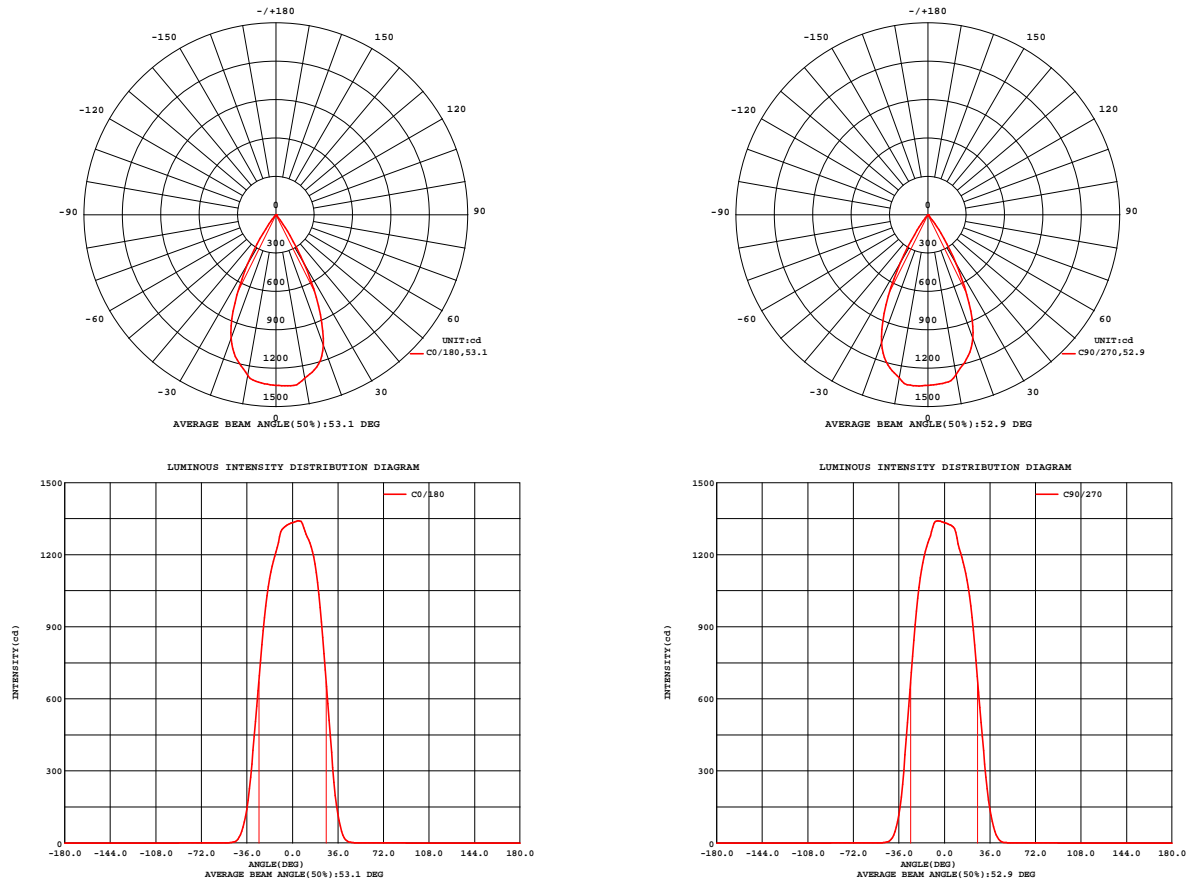


Fig. C0/C180

Fig. C90/C270

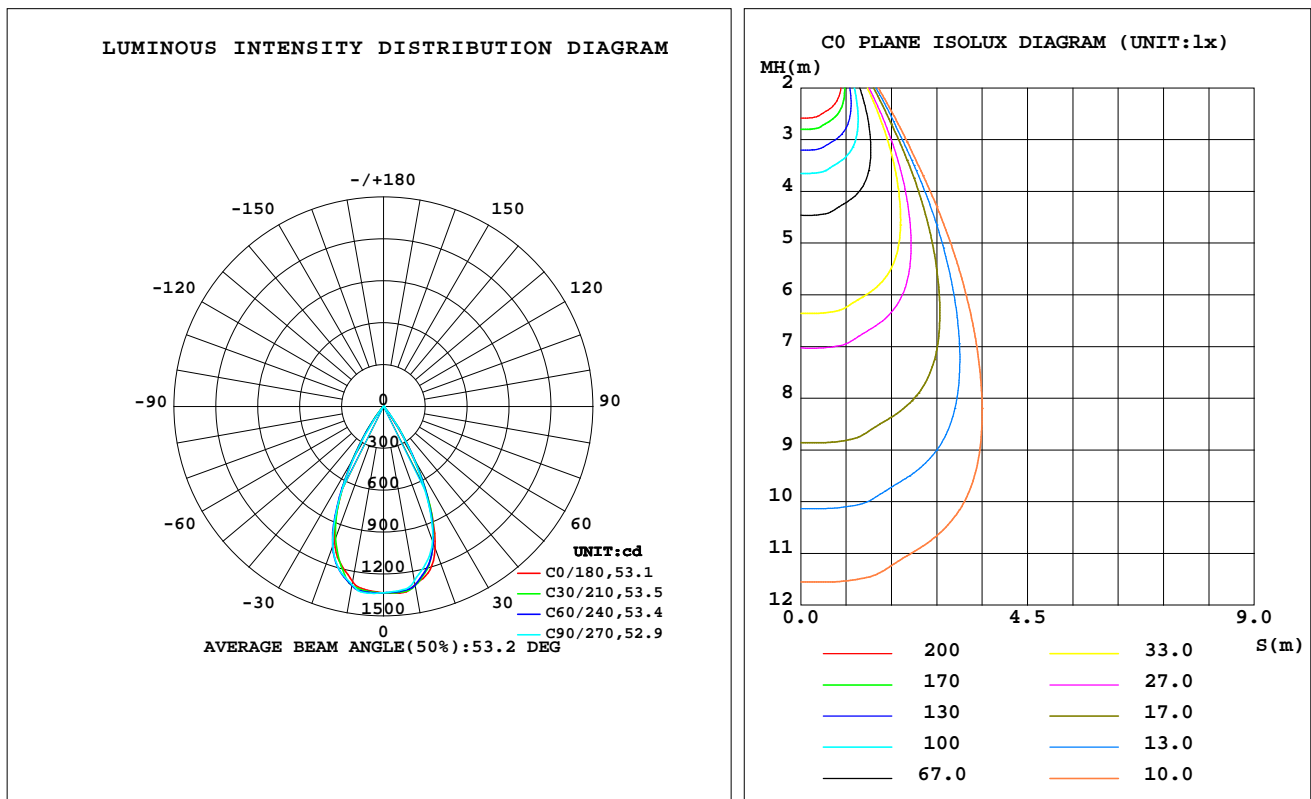
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.18V I:0.0640A P:13.685W PF:0.9686 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.101-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408091109
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.66 lm/W			
MODEL	Bridgelux	I _{max} (cd)	1344	S/MH(C0/180)	0.79
NOMINAL POWER(W)	14	LOR(%)	63.0	S/MH(C90/270)	0.79
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	939.54	η UP,DN(C0-180)	0.0,31.5
NOMINAL FLUX(lm)	1490.38	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,31.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	63.0	CIBSE SHR MAX	0.85



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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	1297	1302	1269	1286	1275	1302	1296	1319	0- 10	126.2	126.2	13.4,8.47
20	1084	1040	1028	1015	1029	1036	1064	1067	10- 20	333.5	459.7	48.9,30.8
30	443.3	462.4	442.7	458.3	445.5	455.6	432.6	461.2	20- 30	346.1	805.8	85.8,54.1
40	33.01	46.75	48.99	55.35	48.50	46.98	32.58	31.70	30- 40	123.9	929.7	99,62.4
50	0.9301	1.562	1.227	1.968	1.163	1.697	0.9047	1.314	40- 50	9.243	938.9	99.9,63
60	0.1391	0.1846	0.1693	0.2205	0.1839	0.1990	0.1488	0.1628	50- 60	0.4714	939.4	100,63
70	0.0357	0.0416	0.0375	0.0510	0.0458	0.0472	0.0422	0.0363	60- 70	0.0951	939.5	100,63
80	0.0189	0.0126	0.0161	0.0132	0.0155	0.0135	0.0170	0.0096	70- 80	0.0225	939.5	100,63
90	0	0	0	0	0	0	0	0	80- 90	0.0114	939.5	100,63
100	0	0	0	0	0	0	0	0	90-100	0	939.5	100,63
110	0	0	0	0	0	0	0	0	100-110	0	939.5	100,63
120	0	0	0	0	0	0	0	0	110-120	0	939.5	100,63
130	0	0	0	0	0	0	0	0	120-130	0	939.5	100,63
140	0	0	0	0	0	0	0	0	130-140	0	939.5	100,63
150	0	0	0	0	0	0	0	0	140-150	0	939.5	100,63
160	0	0	0	0	0	0	0	0	150-160	0	939.5	100,63
170	0	0	0	0	0	0	0	0	160-170	0	939.5	100,63
180	0	0	0	0	0	0	0	0	170-180	0	939.5	100,63
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Operators:zoe
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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LENS:PM-1082C 50R
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.18V I:0.0640A P:13.685W PF:0.9686 Freq:49.99Hz
Lamp Flux:1490.38x1 lm

NAME: 2418.101-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

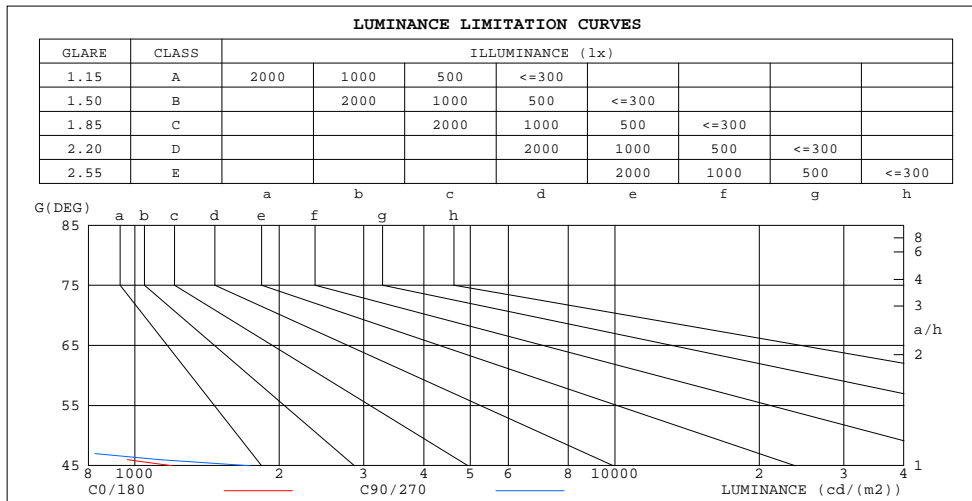
DIM.:

SERIAL No.: 2408091109

MFR.: RISE

SUR.: 0.004624m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	41	35
80	24	20
75	18	15
70	23	24
65	36	43
60	60	73
55	117	140
50	313	413
45	1196	1736

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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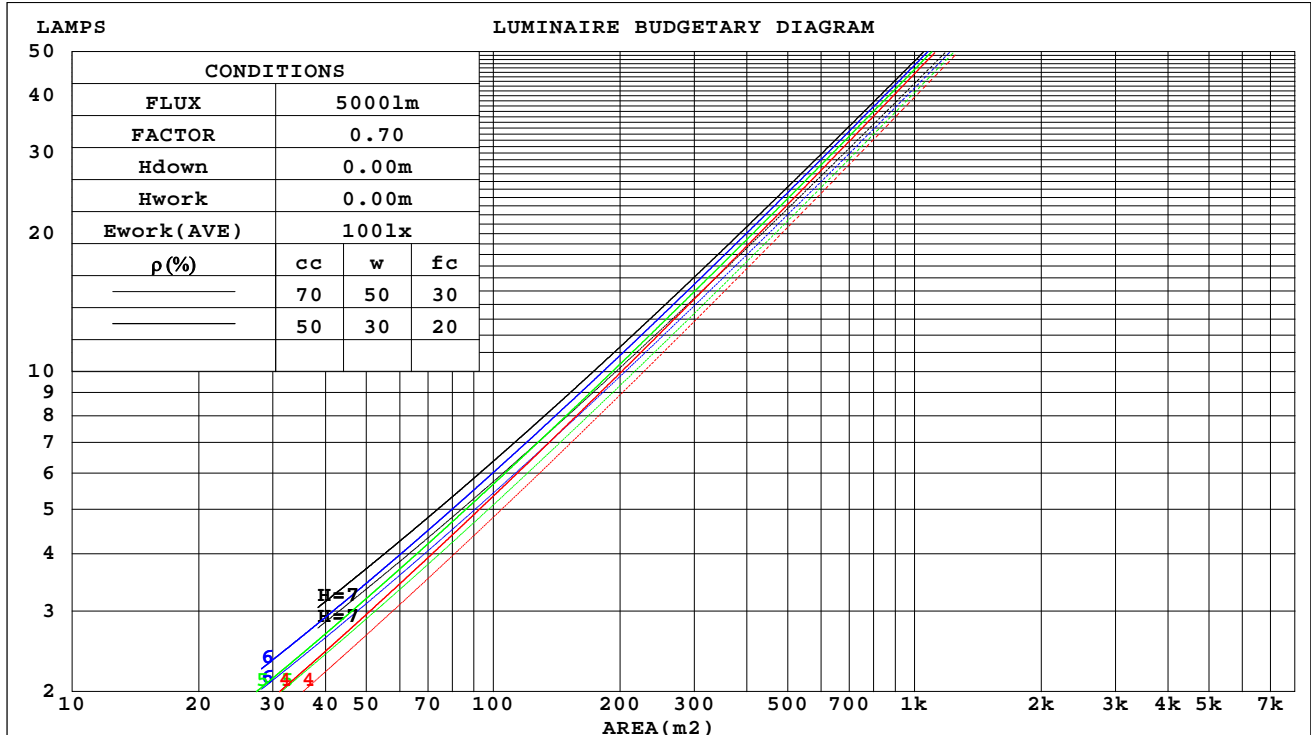
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MFR.: RISE

SUR.: 0.004624m2

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						Coefficients of Utilization(CU)									
0.0	.75	.75	.75	.73	.73	.73	.70	.70	.70	.67	.67	.67	.64	.64	.64	.63
1.0	.70	.69	.68	.69	.68	.67	.66	.65	.65	.64	.63	.63	.62	.61	.61	.60
2.0	.66	.64	.62	.65	.63	.61	.63	.61	.60	.61	.60	.59	.59	.58	.57	.56
3.0	.62	.59	.57	.61	.59	.57	.60	.58	.56	.58	.56	.55	.57	.55	.54	.53
4.0	.59	.56	.53	.58	.55	.53	.57	.54	.52	.55	.53	.52	.54	.53	.51	.50
5.0	.56	.52	.50	.55	.52	.50	.54	.51	.49	.53	.51	.49	.52	.50	.48	.48
6.0	.53	.49	.47	.52	.49	.47	.51	.48	.46	.50	.48	.46	.50	.47	.46	.45
7.0	.50	.47	.44	.50	.46	.44	.49	.46	.44	.48	.46	.44	.47	.45	.43	.43
8.0	.47	.44	.42	.47	.44	.42	.46	.44	.42	.46	.43	.41	.45	.43	.41	.40
9.0	.45	.42	.40	.45	.42	.40	.44	.41	.39	.44	.41	.39	.43	.41	.39	.38
10.0	.43	.40	.38	.43	.40	.38	.42	.39	.37	.42	.39	.37	.41	.39	.37	.36



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WEC AND CCEC

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NAME: 2418.101-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408091109
MFR.: RISE	SUR.: 0.004624m2	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	.102	.058	.018	.098	.056	.018	.090	.052	.017	.083	.048	.015	.076	.044	.014	
2.0	.097	.053	.016	.094	.052	.016	.087	.048	.015	.081	.045	.014	.075	.043	.013	
3.0	.092	.049	.015	.089	.048	.014	.084	.045	.014	.078	.043	.013	.074	.041	.013	
4.0	.088	.046	.013	.085	.045	.013	.080	.043	.013	.076	.041	.012	.072	.039	.012	
5.0	.084	.043	.012	.081	.042	.012	.077	.040	.012	.073	.039	.012	.070	.037	.011	
6.0	.080	.040	.011	.078	.039	.011	.074	.038	.011	.071	.037	.011	.068	.036	.011	
7.0	.076	.038	.011	.075	.037	.011	.072	.036	.010	.069	.035	.010	.066	.034	.010	
8.0	.073	.036	.010	.072	.035	.010	.069	.034	.010	.066	.034	.010	.064	.033	.010	
9.0	.071	.034	.010	.069	.034	.009	.067	.033	.009	.064	.032	.009	.062	.031	.009	
10.0	.068	.033	.009	.067	.032	.009	.064	.032	.009	.062	.031	.009	.060	.030	.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	.120	.120	.120	.103	.103	.103	.070	.070	.070	.040	.040	.040	.013	.013	.013		
1.0	.107	.099	.092	.092	.085	.079	.063	.059	.055	.036	.034	.032	.012	.011	.010		
2.0	.097	.084	.072	.083	.072	.063	.057	.050	.044	.033	.029	.026	.011	.009	.008		
3.0	.089	.072	.058	.076	.062	.050	.052	.043	.035	.030	.025	.021	.010	.008	.007		
4.0	.082	.062	.047	.070	.054	.041	.048	.037	.029	.028	.022	.017	.009	.007	.006		
5.0	.076	.055	.039	.065	.047	.034	.045	.033	.024	.026	.019	.014	.008	.006	.005		
6.0	.071	.049	.033	.061	.042	.028	.042	.030	.020	.024	.017	.012	.008	.006	.004		
7.0	.067	.044	.028	.058	.038	.024	.040	.027	.017	.023	.016	.010	.007	.005	.003		
8.0	.063	.040	.024	.054	.035	.021	.038	.024	.015	.022	.014	.009	.007	.005	.003		
9.0	.060	.036	.021	.052	.032	.018	.036	.022	.013	.021	.013	.008	.007	.004	.003		
10.0	.057	.034	.018	.049	.029	.016	.034	.021	.011	.020	.012	.007	.006	.004	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2408091109		
MFR.: RISE					SUR.: 0.004624m2			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	13.8	14.7	14.0	14.8	15.0	13.8	14.7	14.1	14.9	15.0
3H	13.7	14.4	13.9	14.6	14.8	13.7	14.5	13.9	14.7	14.9
4H	13.6	14.3	13.8	14.5	14.7	13.6	14.3	13.9	14.5	14.8
6H	13.5	14.2	13.8	14.4	14.7	13.5	14.2	13.8	14.4	14.7
8H	13.4	14.1	13.7	14.4	14.6	13.5	14.1	13.8	14.4	14.6
12H	13.4	14.0	13.7	14.3	14.6	13.4	14.1	13.7	14.3	14.6
4H 2H	13.6	14.3	13.8	14.5	14.7	13.6	14.3	13.9	14.5	14.8
3H	13.4	14.0	13.7	14.3	14.6	13.4	14.1	13.7	14.3	14.6
4H	13.3	13.9	13.6	14.2	14.5	13.3	13.9	13.7	14.2	14.5
6H	13.2	13.7	13.6	14.0	14.4	13.2	13.7	13.6	14.1	14.4
8H	13.2	13.6	13.5	14.0	14.3	13.2	13.6	13.6	14.0	14.4
12H	13.1	13.5	13.5	13.9	14.3	13.1	13.6	13.5	13.9	14.3
8H 4H	13.2	13.6	13.5	14.0	14.3	13.2	13.6	13.6	14.0	14.4
6H	13.0	13.4	13.5	13.8	14.2	13.1	13.5	13.5	13.8	14.3
8H	13.0	13.3	13.4	13.7	14.2	13.0	13.4	13.5	13.8	14.2
12H	12.9	13.2	13.4	13.7	14.1	13.0	13.2	13.4	13.7	14.2
12H 4H	13.1	13.5	13.5	13.9	14.3	13.1	13.6	13.5	13.9	14.3
6H	13.0	13.3	13.4	13.7	14.2	13.0	13.4	13.5	13.8	14.2
8H	12.9	13.2	13.4	13.7	14.1	13.0	13.2	13.4	13.7	14.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.3 / -28.7					+ 4.7 / -29.1				
1.5H	+ 7.1 / -24.7					+ 7.5 / -25.3				
2.0H	+ 7.6 / -12.5					+ 7.5 / -13.6				

CIE Pub.117, 1490 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
Area: 0.004624 m2

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UTILIZATION FACTORS TABLE

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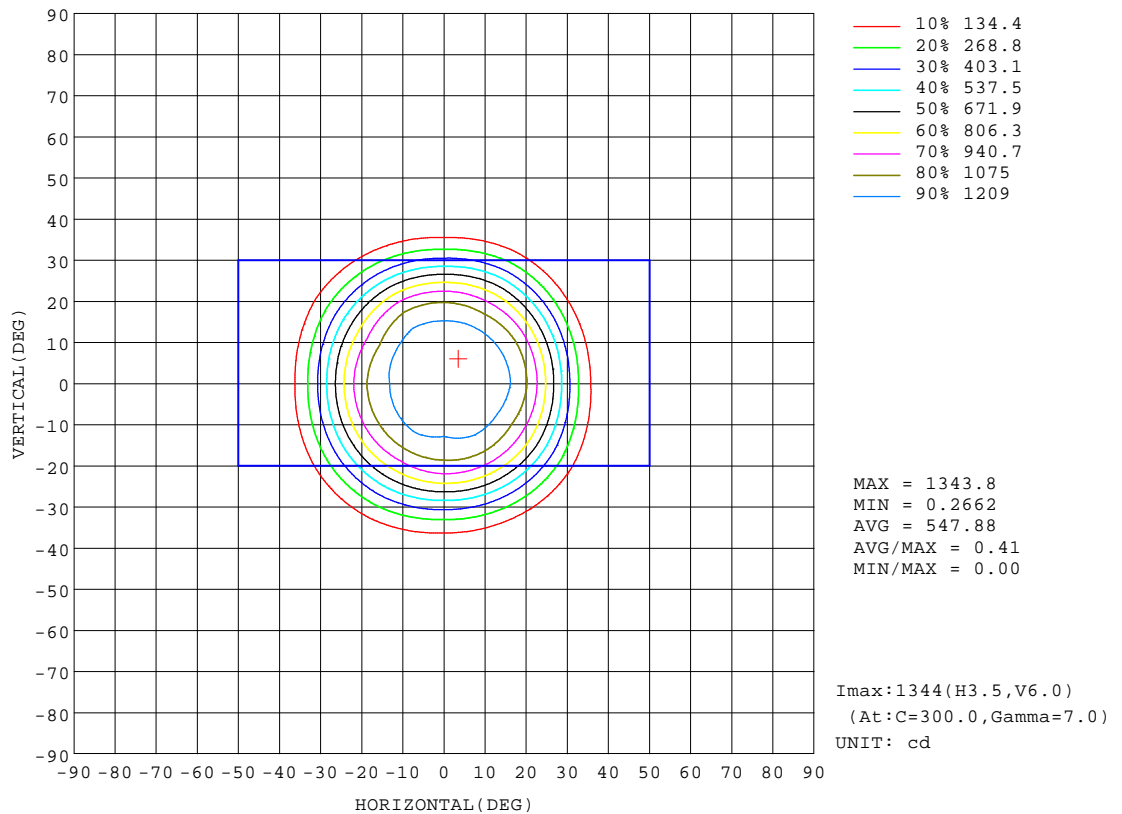
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	54	52	57	54	52	57	53	51	49
0.80	62	58	56	61	58	56	61	58	56	54
1.00	64	61	59	64	61	59	63	60	58	56
1.25	66	63	61	66	63	61	65	62	61	58
1.50	68	65	63	67	65	63	66	64	62	60
2.00	69	67	65	68	66	65	67	65	64	61
2.50	70	68	66	69	67	66	67	66	65	61
3.00	71	69	68	70	68	67	68	67	65	62
4.00	72	71	69	71	70	69	69	68	67	62
5.00	73	72	71	72	71	70	69	68	68	63
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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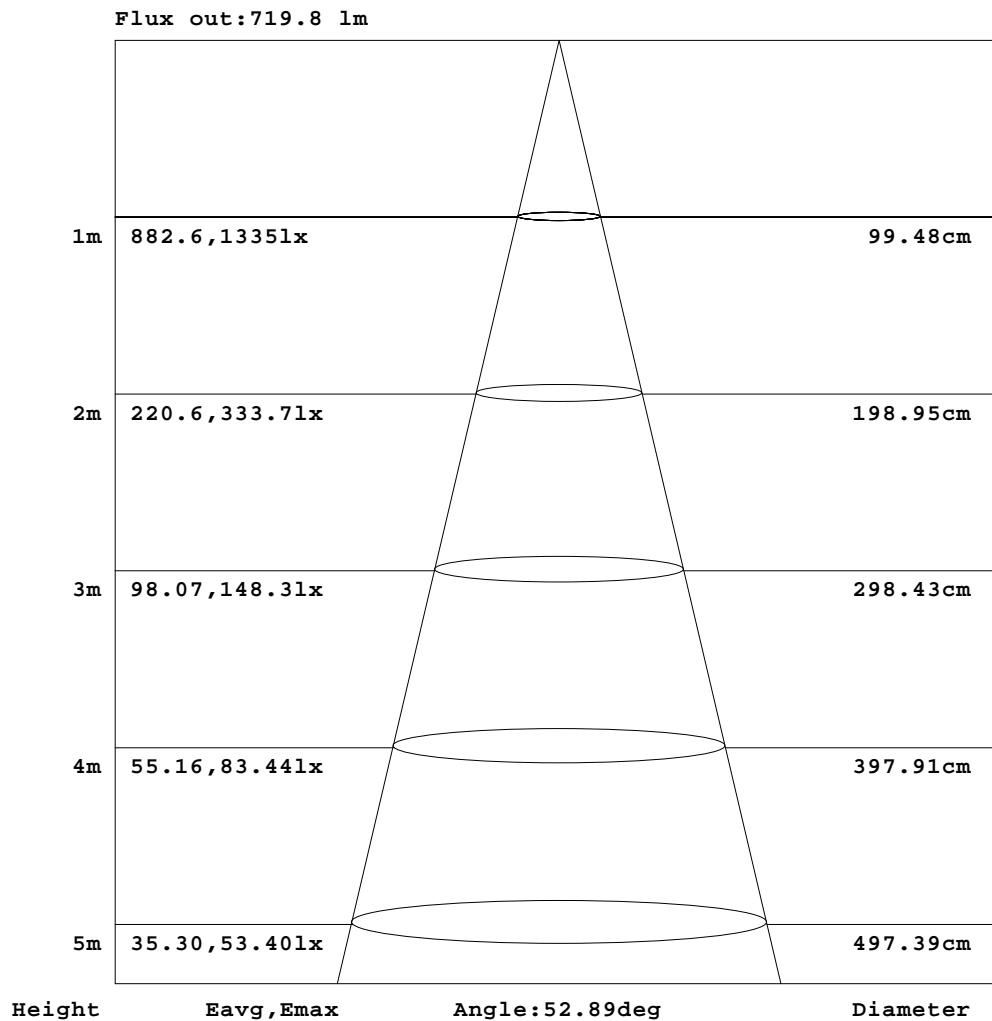


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Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082C 50R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

AAI Figure

Test:U:220.18V I:0.0640A P:13.685W PF:0.9686 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.101-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408091109
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:



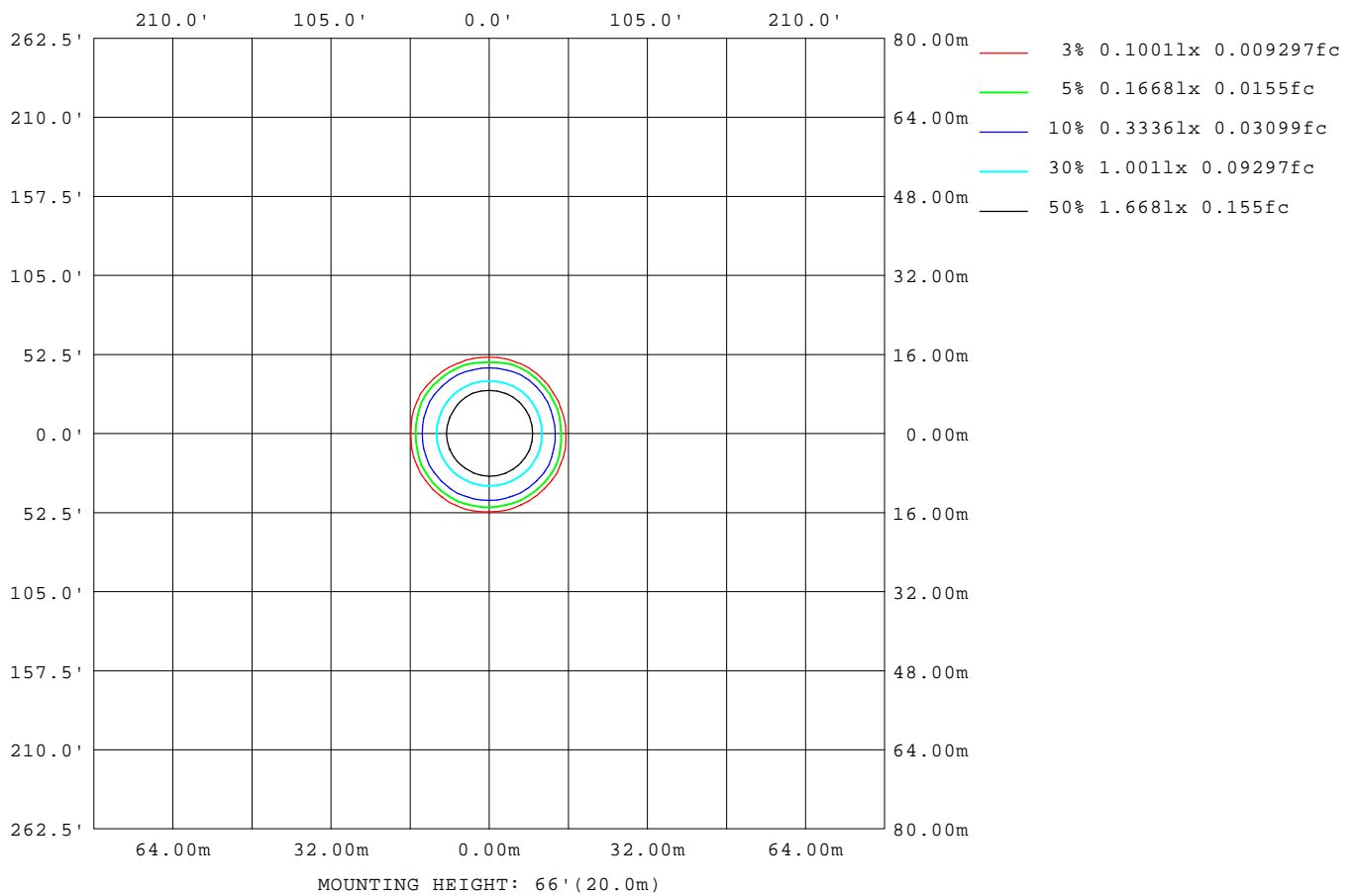
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-8-9

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-30G1000-A-83 Ra: 90
LENS: PM-1082C 50R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.18V I:0.0640A P:13.685W PF:0.9686 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.101-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408091109
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2024-8-9

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-30G1000-A-83 Ra:90
LENS:PM-1082C 50R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.18V I:0.0640A P:13.685W PF:0.9686 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.101-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408091109
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:

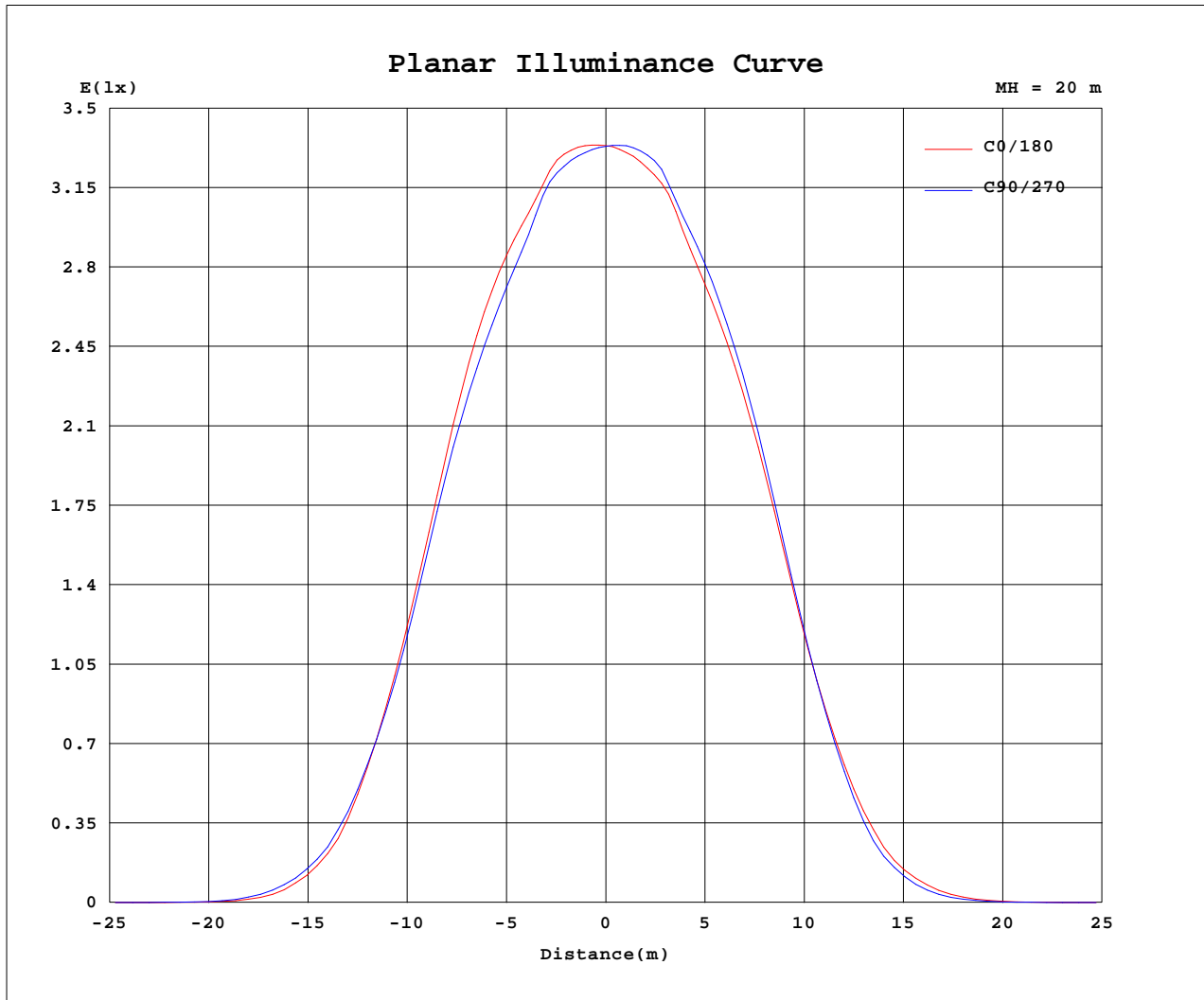
AvgL	cd/m2
L_0~180(65)av	42
L_0~180(75)av	17
L_0~180(85)av	37
L_90~270(65)av	41
L_90~270(75)av	15
L_90~270(85)av	37
L_45(65)av	49
L_45(75)av	13
L_45(85)av	21

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-8-9

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-30G1000-A-83 Ra:90
LENS:PM-1082C 50R
DRIVER: IT FIT 20/200-240/500 CS 350mA
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: 2024-8-9

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-30G1000-A-83 Ra: 90
 LENS: PM-1082C 50R
 DRIVER: IT FIT 20/200-240/500 CS 350mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.18V I:0.0640A P:13.685W PF:0.9686 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.101-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408091109
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333						
5	1340	1335	1329	1324	1319	1318	1320	1327	1335	1340	1343	1343						
10	1297	1303	1300	1269	1287	1285	1275	1300	1303	1296	1329	1310						
15	1233	1207	1199	1168	1183	1173	1174	1178	1218	1214	1224	1229						
20	1084	1041	1038	1028	1010	1021	1029	1005	1067	1064	1053	1081						
25	788	793	775	759	756	760	762	763	789	777	796	792						
30	443	470	455	443	459	457	445	460	452	433	467	456						
35	158	201	189	179	204	206	178	201	178	149	177	165						
40	33.0	46.1	47.4	49.0	55.0	55.7	48.5	51.6	42.4	32.6	30.6	32.8						
45	3.91	8.54	9.81	5.68	11.1	10.8	6.61	10.9	8.66	4.29	7.26	6.47						
50	0.93	1.55	1.57	1.23	1.95	1.99	1.16	2.02	1.37	0.90	1.48	1.14						
55	0.31	0.40	0.43	0.37	0.55	0.52	0.37	0.50	0.38	0.31	0.38	0.33						
60	0.14	0.18	0.19	0.17	0.22	0.22	0.18	0.22	0.18	0.15	0.17	0.15						
65	0.07	0.09	0.09	0.08	0.11	0.11	0.09	0.11	0.09	0.08	0.09	0.07						
70	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03						
75	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01						
80	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.01						
85	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	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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