

Luminaire Photograph



Light Output Ratio:	83.6%	
Luminaire Power:	13.65 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: 2025-7-18

Range: 0 - 180DEG
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-30G10T0-G-83 Ra:90
LENS: PM-1084C 50R
DRIVER: PUP20A-1WMC 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

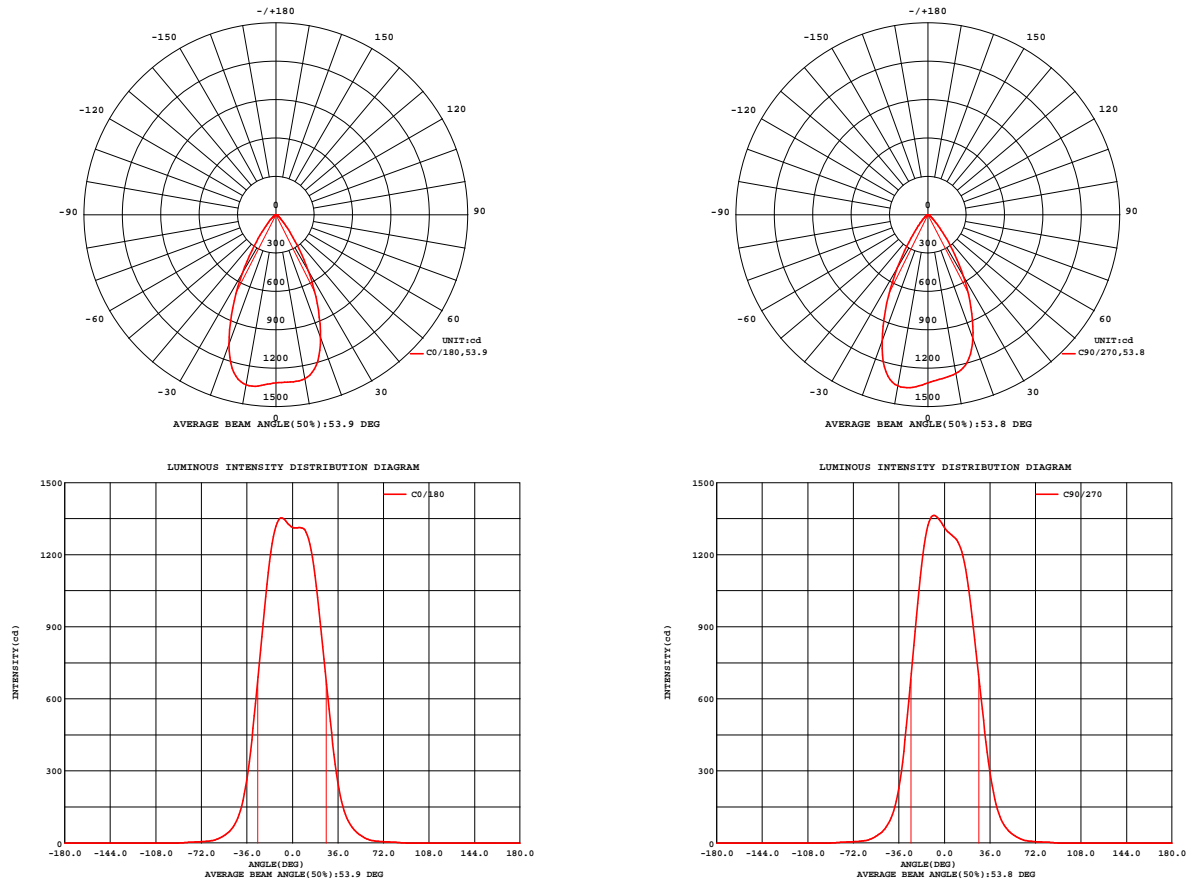


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-7-18

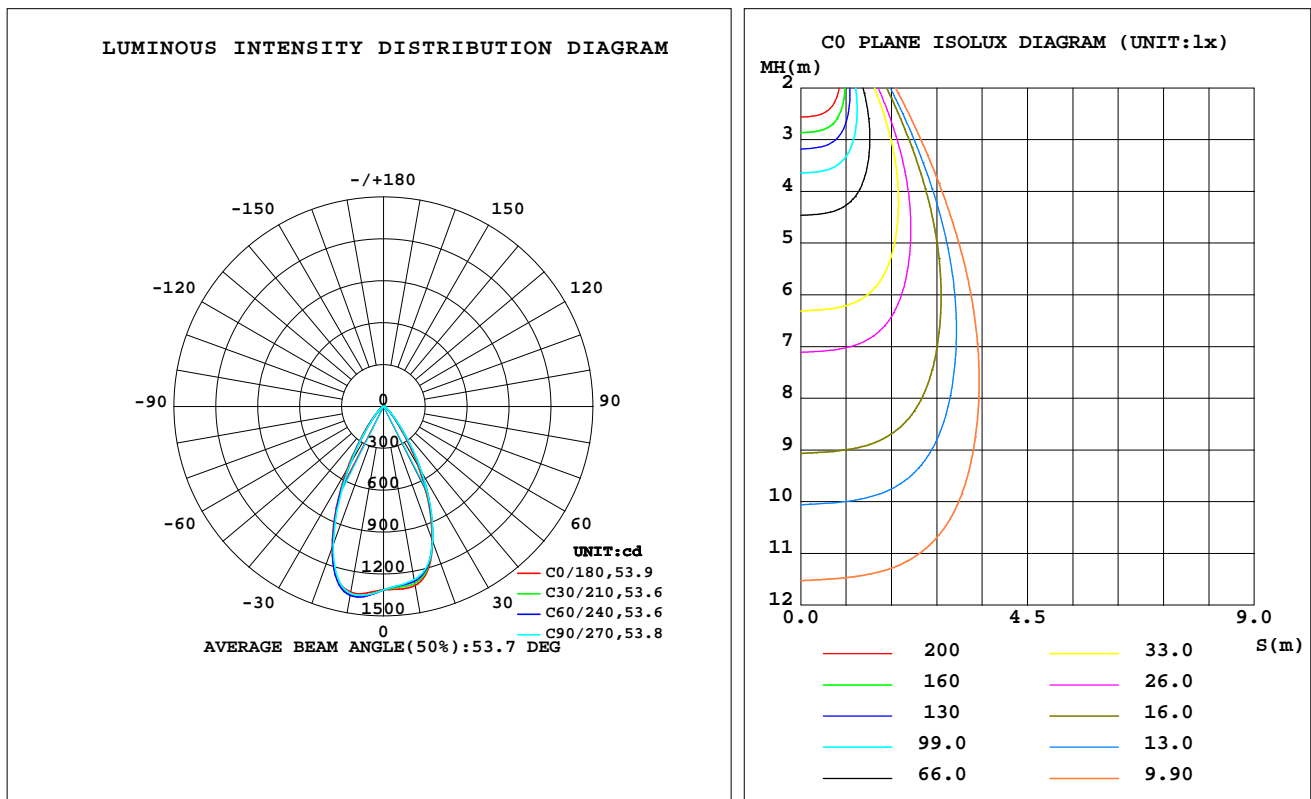
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.1147A P:13.649W PF:0.9900 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180442
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.25 lm/W			
MODEL	Brideglux	I _{max} (cd)	1377	S/MH(C0/180)	0.83
NOMINAL POWER(W)	13	LOR(%)	83.6	S/MH(C90/270)	0.81
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1122.7	UP,DN(C0-180)	0.0,42.2
NOMINAL FLUX(lm)	1342.44	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,41.4
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	down(%)	83.6	CIBSE SHR MAX	0.85



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30minutes warm-up



ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1302	1279	1259	1290	1350	1372	1358	1331	0- 10	126.2	126.2	11.2,9.4
20	1022	1026	1029	1028	1077	1068	1052	1043	10- 20	340.7	466.9	41.6,34.8
30	507.3	540.8	557.5	534.8	529.4	497.5	480.2	502.5	20- 30	354.2	821.1	73.1,61.2
40	152.2	173.0	181.8	165.4	154.3	139.1	134.2	147.0	30- 40	190.8	1012	90.1,75.4
50	48.21	53.46	54.91	49.84	46.00	41.90	42.13	46.16	40- 50	68.70	1081	96.3,80.5
60	14.77	16.81	17.72	15.63	14.71	13.29	13.22	14.49	50- 60	26.13	1107	98.6,82.4
70	6.012	6.201	6.191	5.954	5.970	5.860	5.889	6.042	60- 70	9.196	1116	99.4,83.1
80	3.469	3.499	3.442	3.335	3.401	3.368	3.401	3.515	70- 80	4.859	1121	99.8,83.5
90	0	0	0	0	0	0	0	0	80- 90	1.851	1123	100,83.6
100	0	0	0	0	0	0	0	0	90-100	0	1123	100,83.6
110	0	0	0	0	0	0	0	0	100-110	0	1123	100,83.6
120	0	0	0	0	0	0	0	0	110-120	0	1123	100,83.6
130	0	0	0	0	0	0	0	0	120-130	0	1123	100,83.6
140	0	0	0	0	0	0	0	0	130-140	0	1123	100,83.6
150	0	0	0	0	0	0	0	0	140-150	0	1123	100,83.6
160	0	0	0	0	0	0	0	0	150-160	0	1123	100,83.6
170	0	0	0	0	0	0	0	0	160-170	0	1123	100,83.6
180	0	0	0	0	0	0	0	0	170-180	0	1123	100,83.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

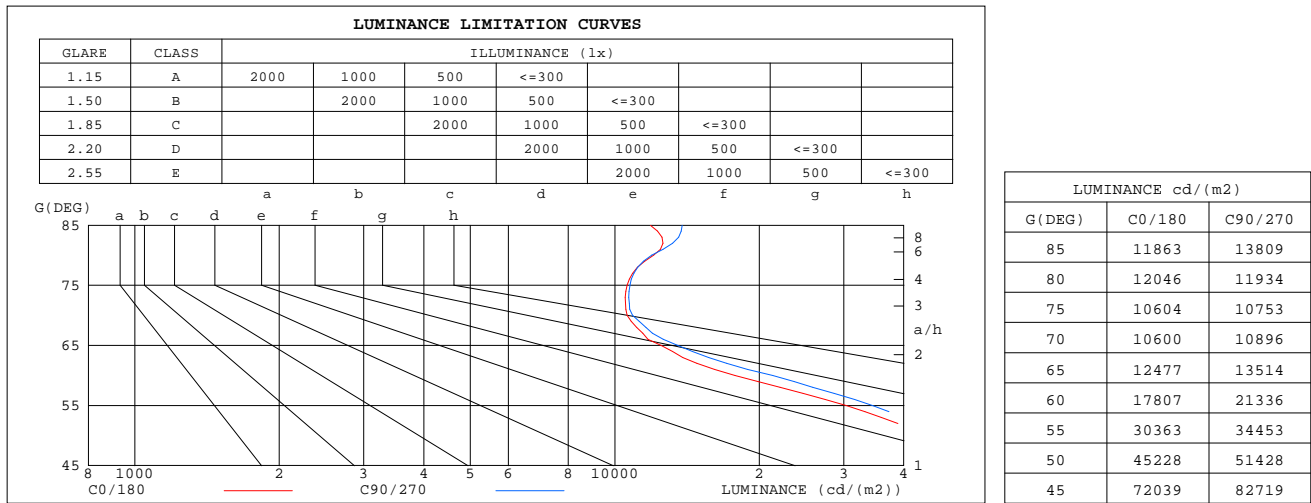
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.1147A P:13.649W PF:0.9900 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180442
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

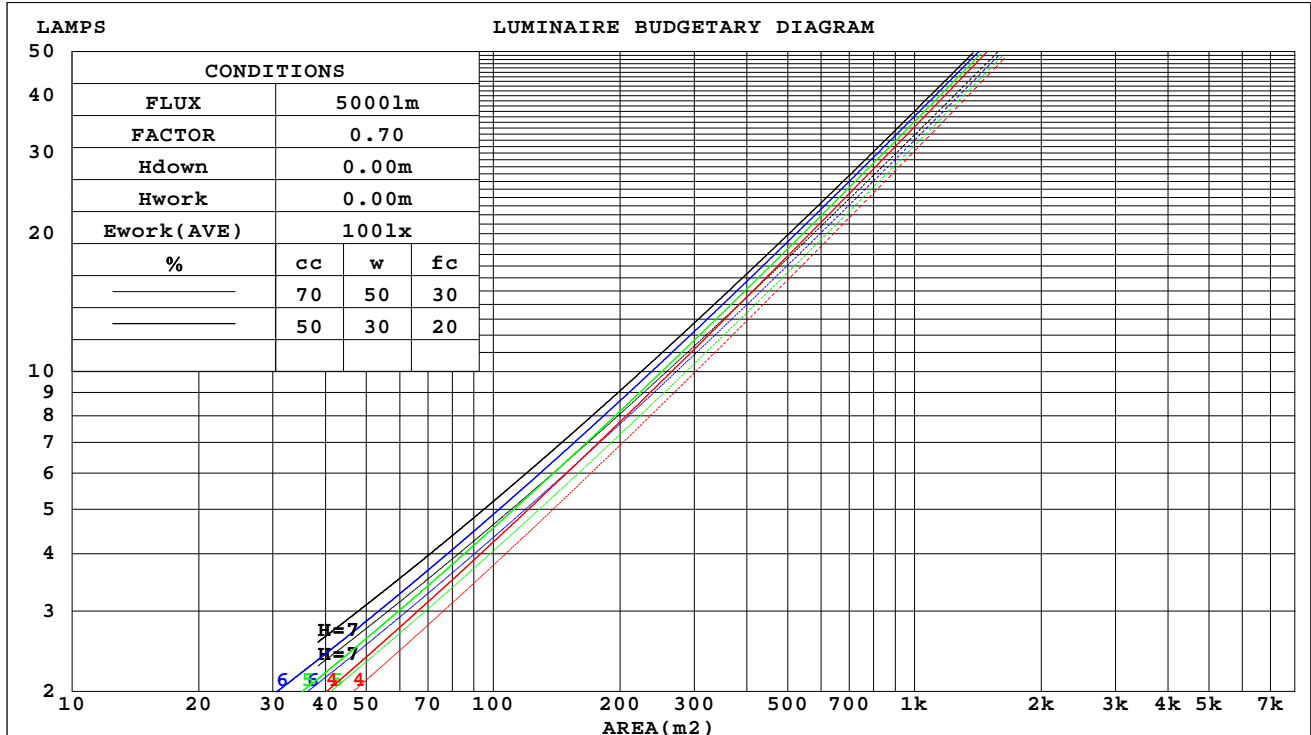
SERIAL No.: 2507180442

MFR.: RISE

SUR.: 0.00166106m2

Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.00	.00	.00	.97	.97	.97	.93	.93	.93	.89	.89	.89	.85	.85	.85	.84
1.0	.92	.90	.88	.91	.89	.87	.87	.86	.84	.84	.83	.82	.81	.80	.80	.78
2.0	.86	.83	.80	.85	.81	.79	.82	.79	.77	.79	.77	.75	.77	.75	.74	.72
3.0	.80	.76	.73	.79	.75	.72	.77	.74	.71	.75	.72	.70	.73	.71	.69	.67
4.0	.75	.70	.67	.74	.70	.66	.72	.69	.66	.71	.67	.65	.69	.66	.64	.63
5.0	.70	.65	.62	.69	.65	.62	.68	.64	.61	.67	.63	.60	.65	.62	.60	.59
6.0	.66	.61	.57	.65	.61	.57	.64	.60	.57	.63	.59	.57	.62	.59	.56	.55
7.0	.62	.57	.54	.62	.57	.54	.61	.56	.53	.60	.56	.53	.59	.55	.53	.52
8.0	.59	.54	.50	.58	.54	.50	.57	.53	.50	.56	.53	.50	.56	.52	.50	.48
9.0	.56	.51	.47	.55	.50	.47	.54	.50	.47	.54	.50	.47	.53	.49	.47	.46
10.0	.53	.48	.45	.52	.48	.45	.52	.47	.44	.51	.47	.44	.50	.47	.44	.43



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30minutes warm-up

WEC AND CCEC

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NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180442
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0	
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.151	.086	.027	.146	.083	.026	.135	.078	.025	.126	.072	.023	.117	.068	.022		
2.0	.145	.079	.024	.140	.077	.024	.131	.073	.023	.123	.069	.022	.115	.065	.021		
3.0	.137	.073	.022	.133	.071	.021	.126	.068	.021	.119	.065	.020	.112	.062	.019		
4.0	.130	.068	.020	.127	.066	.020	.120	.064	.019	.114	.061	.019	.109	.059	.018		
5.0	.124	.063	.018	.121	.062	.018	.115	.060	.018	.110	.058	.017	.105	.056	.017		
6.0	.118	.059	.017	.115	.058	.017	.110	.057	.016	.106	.055	.016	.101	.053	.016		
7.0	.113	.056	.016	.110	.055	.016	.106	.054	.015	.102	.052	.015	.098	.051	.015		
8.0	.108	.053	.015	.106	.052	.015	.102	.051	.014	.098	.050	.014	.094	.048	.014		
9.0	.103	.050	.014	.101	.049	.014	.098	.048	.014	.094	.047	.014	.091	.046	.013		
10.0	.099	.047	.013	.097	.047	.013	.094	.046	.013	.091	.045	.013	.088	.044	.013		

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.159	.159	.159	.136	.136	.136	.093	.093	.093	.053	.053	.053	.017	.017	.017	
1.0	.143	.132	.121	.123	.113	.104	.084	.078	.072	.048	.045	.042	.015	.014	.014	
2.0	.131	.111	.094	.112	.095	.081	.077	.066	.057	.044	.038	.033	.014	.012	.011	
3.0	.121	.095	.075	.103	.082	.065	.071	.057	.045	.041	.033	.027	.013	.011	.009	
4.0	.112	.083	.060	.096	.071	.052	.066	.050	.037	.038	.029	.022	.012	.009	.007	
5.0	.105	.073	.050	.090	.063	.043	.062	.044	.031	.036	.026	.018	.012	.008	.006	
6.0	.098	.065	.041	.085	.057	.036	.058	.040	.026	.034	.023	.015	.011	.008	.005	
7.0	.093	.059	.035	.080	.051	.031	.055	.036	.022	.032	.021	.013	.010	.007	.004	
8.0	.088	.054	.030	.076	.047	.026	.053	.033	.019	.031	.019	.011	.010	.006	.004	
9.0	.084	.049	.026	.072	.043	.023	.050	.030	.016	.029	.018	.010	.009	.006	.003	
10.0	.080	.046	.023	.069	.040	.020	.048	.028	.014	.028	.017	.008	.009	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2507180442		
MFR.: RISE					SUR.: 0.00166106m2			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	21.8	22.8	22.1	22.9	23.1	22.4	23.3	22.6	23.5	23.6
3H	21.7	22.6	22.0	22.8	23.0	22.3	23.1	22.5	23.3	23.5
4H	21.7	22.5	22.0	22.8	23.0	22.2	23.1	22.5	23.3	23.5
6H	21.7	22.5	22.0	22.7	23.0	22.2	23.0	22.5	23.2	23.5
8H	21.7	22.4	22.0	22.7	22.9	22.2	22.9	22.5	23.2	23.5
12H	21.7	22.4	22.0	22.7	22.9	22.2	22.9	22.5	23.2	23.4
4H 2H	21.7	22.5	21.9	22.7	22.9	22.2	23.0	22.5	23.2	23.5
3H	21.6	22.3	21.9	22.6	22.9	22.1	22.8	22.4	23.1	23.4
4H	21.6	22.3	22.0	22.6	22.9	22.1	22.8	22.5	23.1	23.4
6H	21.6	22.2	22.0	22.5	22.9	22.1	22.7	22.5	23.0	23.4
8H	21.7	22.2	22.0	22.5	22.9	22.1	22.7	22.5	23.0	23.4
12H	21.7	22.1	22.1	22.5	22.9	22.1	22.6	22.5	23.0	23.4
8H 4H	21.5	22.1	21.9	22.4	22.8	22.0	22.5	22.4	22.9	23.3
6H	21.6	22.0	22.0	22.4	22.8	22.0	22.5	22.5	22.9	23.3
8H	21.6	22.0	22.1	22.4	22.9	22.1	22.5	22.5	22.9	23.3
12H	21.7	22.0	22.2	22.5	22.9	22.1	22.5	22.6	22.9	23.4
12H 4H	21.5	22.0	21.9	22.3	22.7	22.0	22.5	22.4	22.8	23.2
6H	21.6	22.0	22.0	22.4	22.8	22.0	22.4	22.5	22.8	23.3
8H	21.6	22.0	22.1	22.4	22.9	22.1	22.4	22.6	22.9	23.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.0 / - 4.0					+ 2.5 / - 4.1				
1.5H	+ 3.3 / - 2.8					+ 3.9 / - 3.2				
2.0H	+ 3.4 / - 3.0					+ 3.8 / - 3.2				

CIE Pub.117, 1342 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)
Area: 0.00166106 m2

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UTILIZATION FACTORS TABLE

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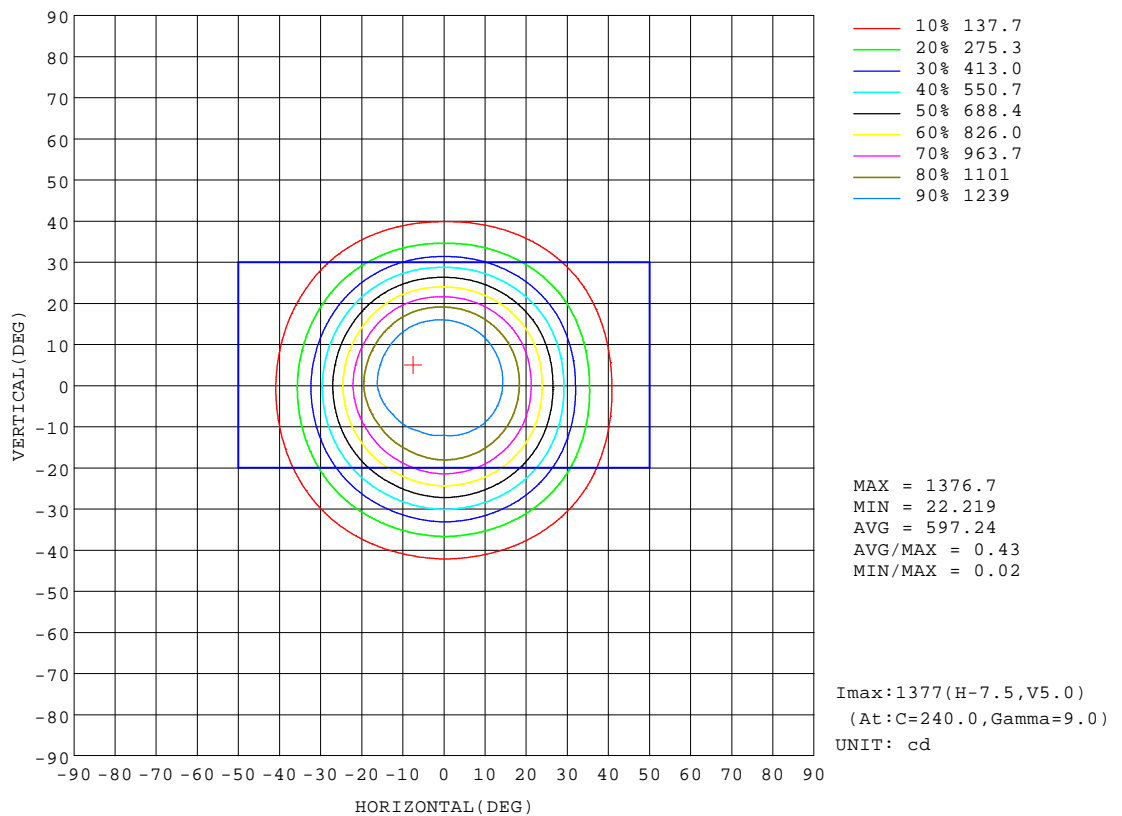
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	66	62	71	66	62	70	65	62	59
0.80	78	73	69	77	72	69	76	72	69	66
1.00	82	77	74	81	77	73	80	76	73	70
1.25	85	81	78	85	80	77	83	79	77	73
1.50	88	84	81	87	83	80	85	82	79	75
2.00	90	87	84	89	86	83	87	84	82	77
2.50	92	88	86	90	87	85	88	85	83	78
3.00	93	90	88	92	89	87	89	87	85	80
4.00	95	92	90	93	91	89	90	88	87	81
5.00	96	94	92	94	92	91	91	89	88	82
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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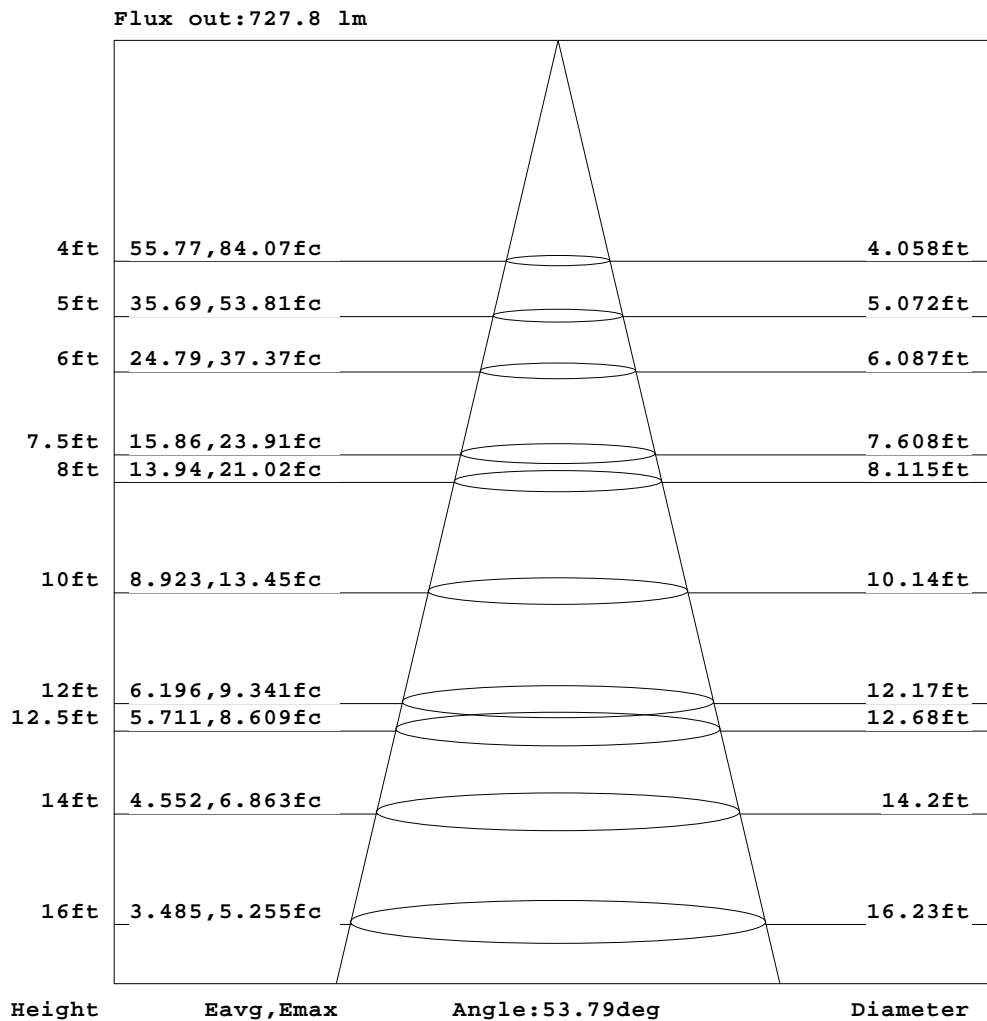
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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507180442
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:



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

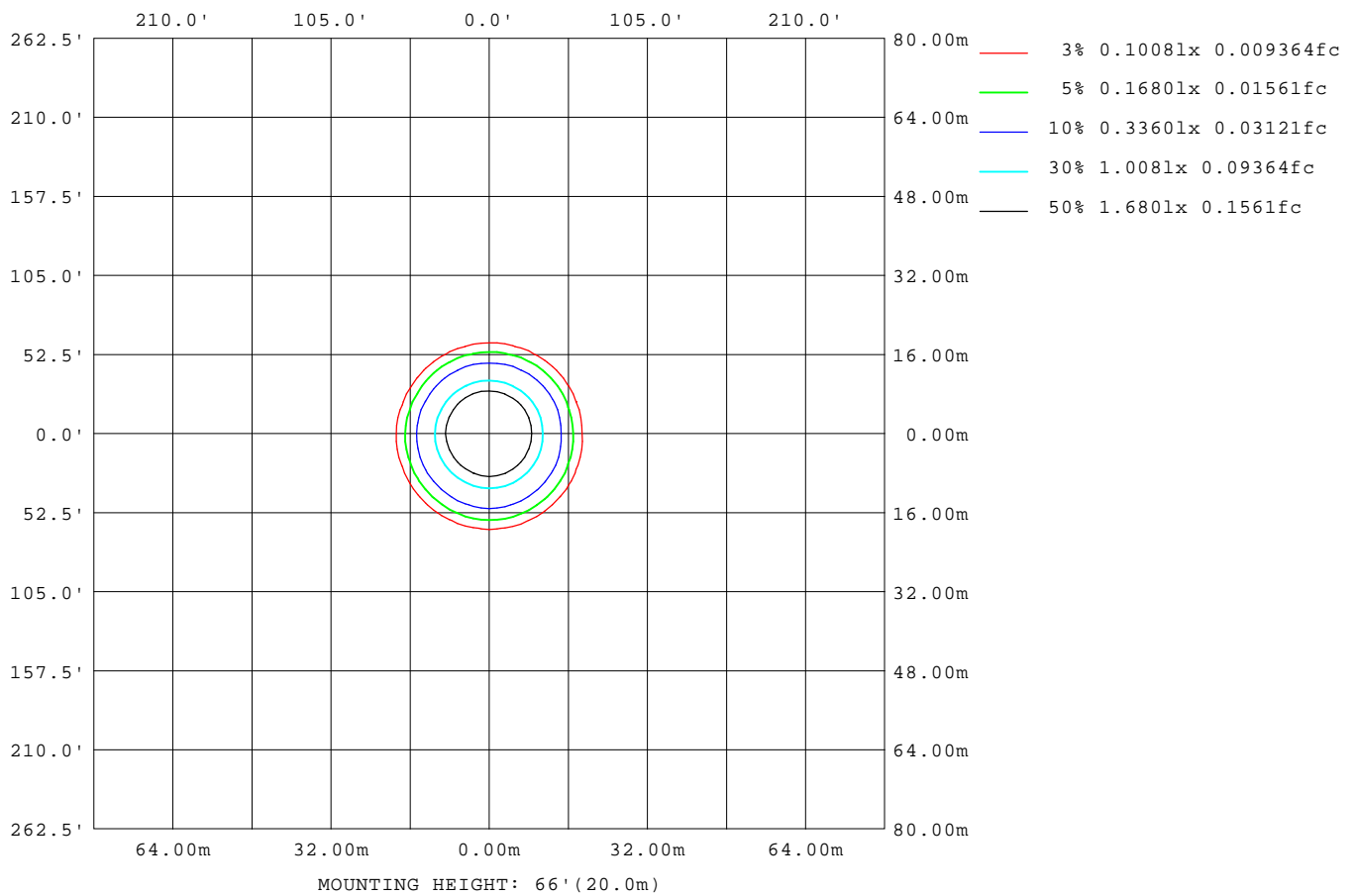
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: zoe
Test Date: 2025-7-18

Range: 0 - 180DEG
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-30G10T0-G-83 Ra: 90
LENS: PM-1084C 50R
DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.07V I:0.1147A P:13.649W PF:0.9900 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180442
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-18

Range: 0 - 180DEG
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-30G10T0-G-83 Ra:90
LENS:PM-1084C 50R
DRIVER:PUP20A-1WMC 600mA

30minutes warm-up

LED Avg.L Report

Test:U:120.07V I:0.1147A P:13.649W PF:0.9900 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180442
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

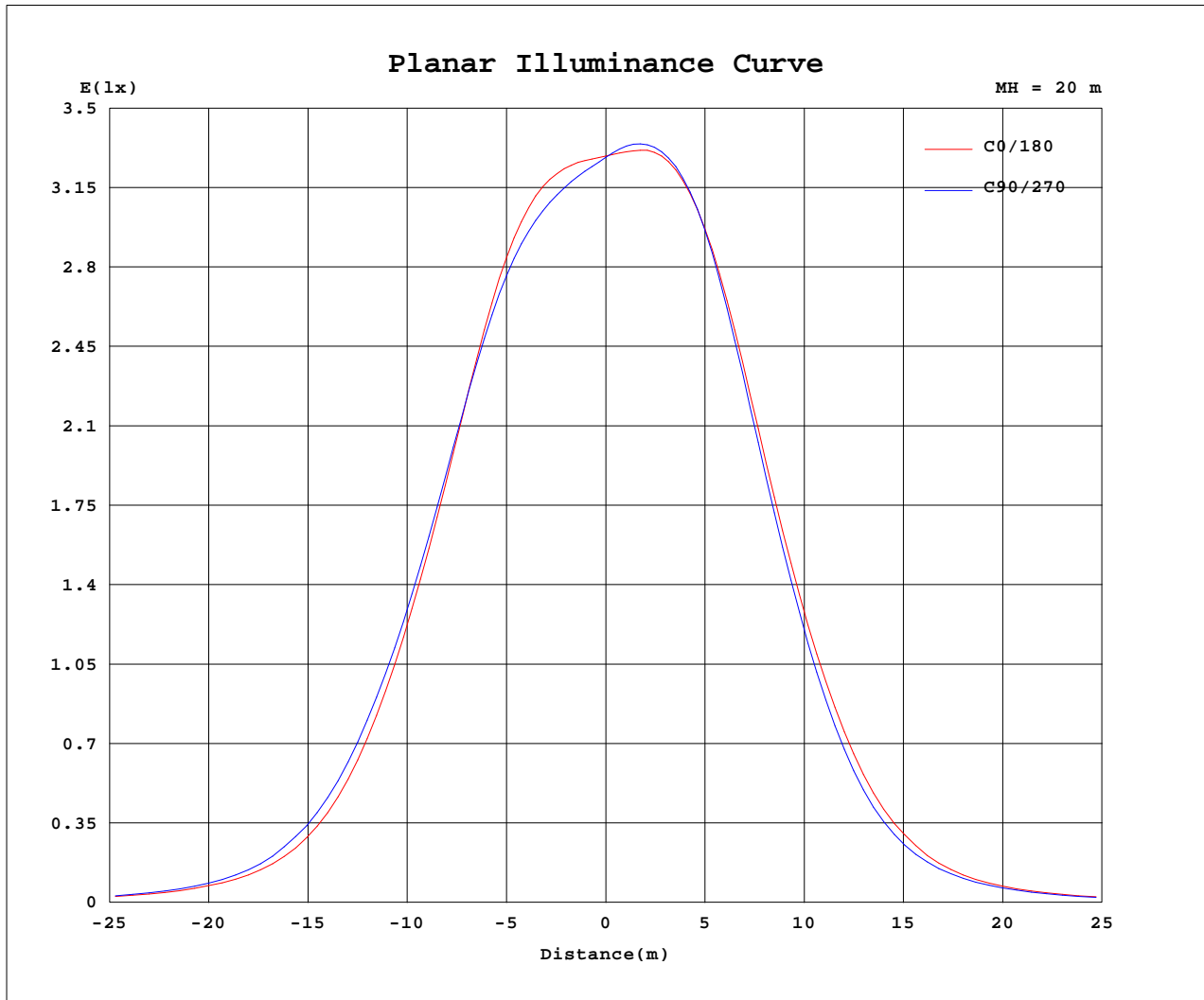
AvgL	cd/m2
L_0~180(65)av	12291
L_0~180(75)av	10542
L_0~180(85)av	11877
L_90~270(65)av	12483
L_90~270(75)av	10613
L_90~270(85)av	11931
L_45(65)av	12433
L_45(75)av	10567
L_45(85)av	11843

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-18

Range: 0 - 180DEG
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-30G10T0-G-83 Ra:90
LENS:PM-1084C 50R
DRIVER:PUP20A-1WMC 600mA
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: 2025-7-18

Range: 0 - 180DEG
 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-30G10T0-G-83 Ra:90
 LENS: PM-1084C 50R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.1147A P:13.649W PF:0.9900 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180442
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314						
5	1312	1299	1289	1285	1295	1316	1339	1356	1360	1353	1341	1327						
10	1302	1287	1270	1259	1273	1306	1350	1371	1374	1358	1341	1321						
15	1219	1207	1198	1191	1194	1221	1275	1281	1288	1270	1255	1235						
20	1022	1025	1028	1029	1020	1037	1077	1066	1070	1052	1047	1040						
25	765	782	791	798	781	787	803	783	781	764	768	778						
30	507	534	547	557	536	533	529	503	492	480	493	512						
35	289	315	329	338	319	308	299	276	267	260	272	290						
40	152	169	177	182	170	161	154	141	137	134	142	152						
45	84.5	92.1	95.4	97.2	92.9	85.6	82.2	76.6	73.9	73.4	78.1	83.5						
50	48.2	52.6	54.3	54.9	51.6	48.1	46.0	42.1	41.7	42.1	44.8	47.5						
55	28.9	31.7	32.7	32.8	30.9	28.7	27.6	25.1	24.7	25.1	27.1	28.6						
60	14.8	16.4	17.3	17.7	16.3	15.0	14.7	13.4	13.2	13.2	14.1	14.8						
65	8.74	9.16	9.62	9.49	9.08	8.59	8.51	8.12	8.01	8.04	8.39	8.83						
70	6.01	6.17	6.23	6.19	6.01	5.90	5.97	5.86	5.87	5.89	6.01	6.08						
75	4.55	4.64	4.65	4.62	4.49	4.43	4.51	4.44	4.47	4.50	4.59	4.63						
80	3.47	3.51	3.49	3.44	3.35	3.32	3.40	3.36	3.38	3.40	3.49	3.54						
85	1.71	1.92	2.01	2.00	1.82	1.67	1.72	1.50	1.44	1.46	1.61	1.76						
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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Operators:zoe
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