

Luminaire Photograph



Light Output Ratio:	68.4%	
Luminaire Power:	15.81 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: 2023-12-1

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: BXRE-30G1000-A-83 Ra:90
LENS: PM-1082C 50R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

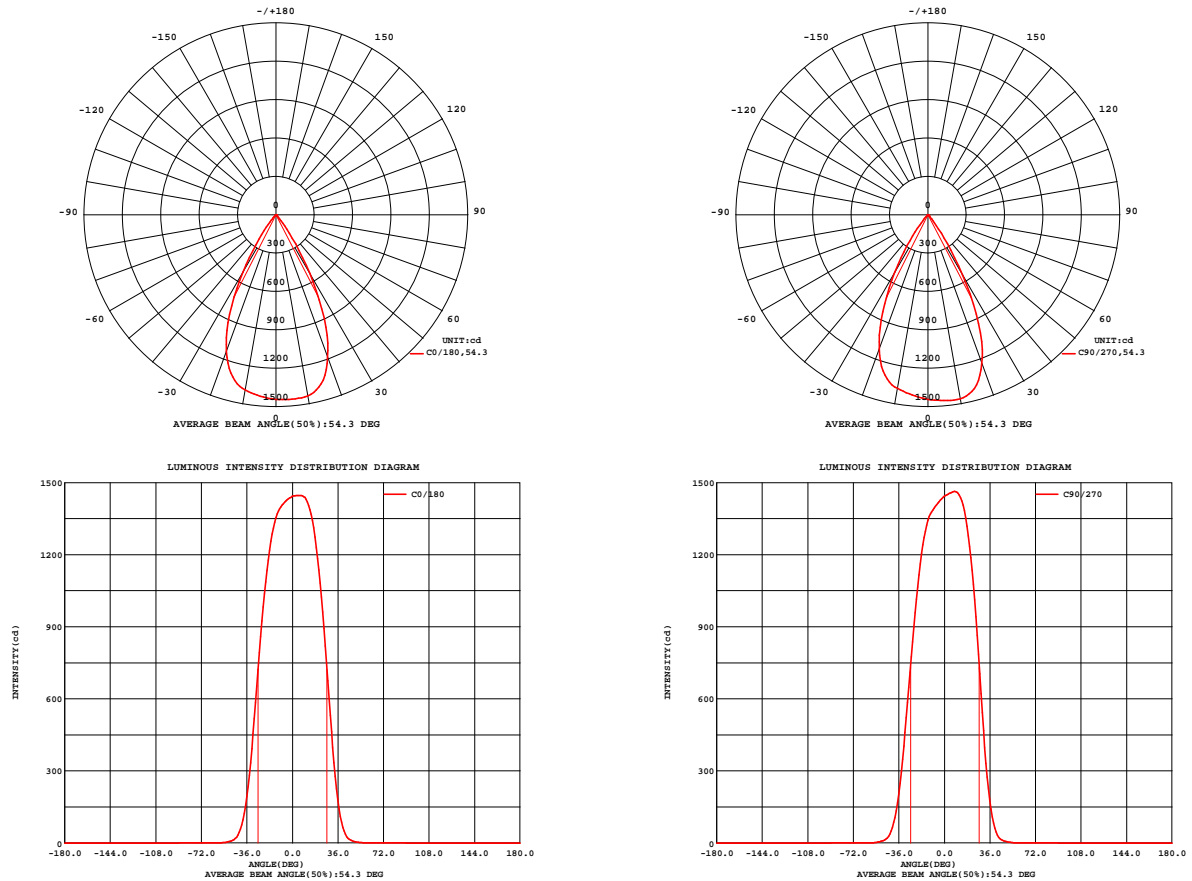


Fig. C0/C180

Fig. C90/C270

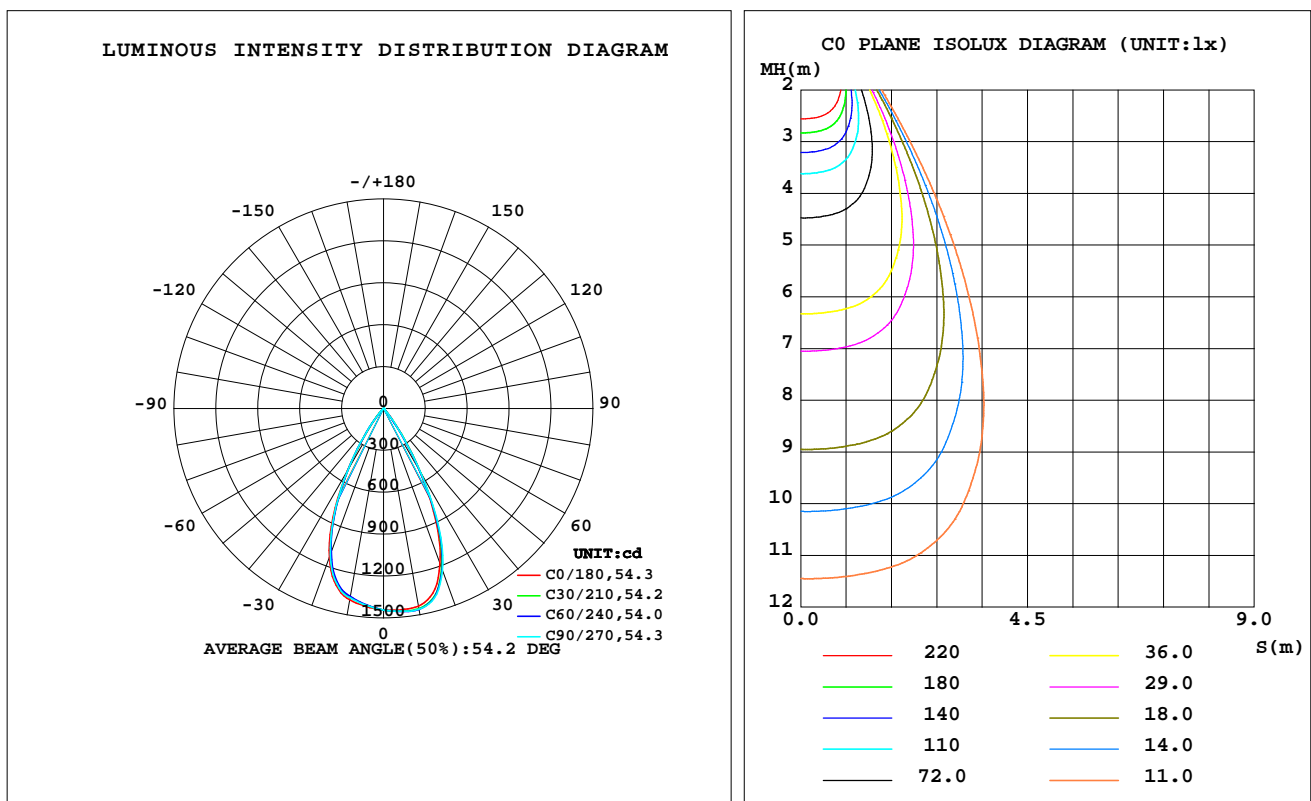
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-12-1

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: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1082C 50R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.14V I:0.1325A P:15.814W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011408
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.28 lm/W
MODEL	Bridgelux	Imax(cd)	1465	S/MH(C0/180)	0.80	
NOMINAL POWER(W)	16	LOR(%)	68.4	S/MH(C90/270)	0.80	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1079.8	UP,DN(C0-180)	0.0,34.8	
NOMINAL FLUX(lm)	1579.4	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,33.5	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	120	down(%)	68.4	CIBSE SHR MAX	0.85	



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-12-1

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:BXRE-30G1000-A-83 Ra:90
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30minutes warm-up

ZONAL FLUX DIAGRAM

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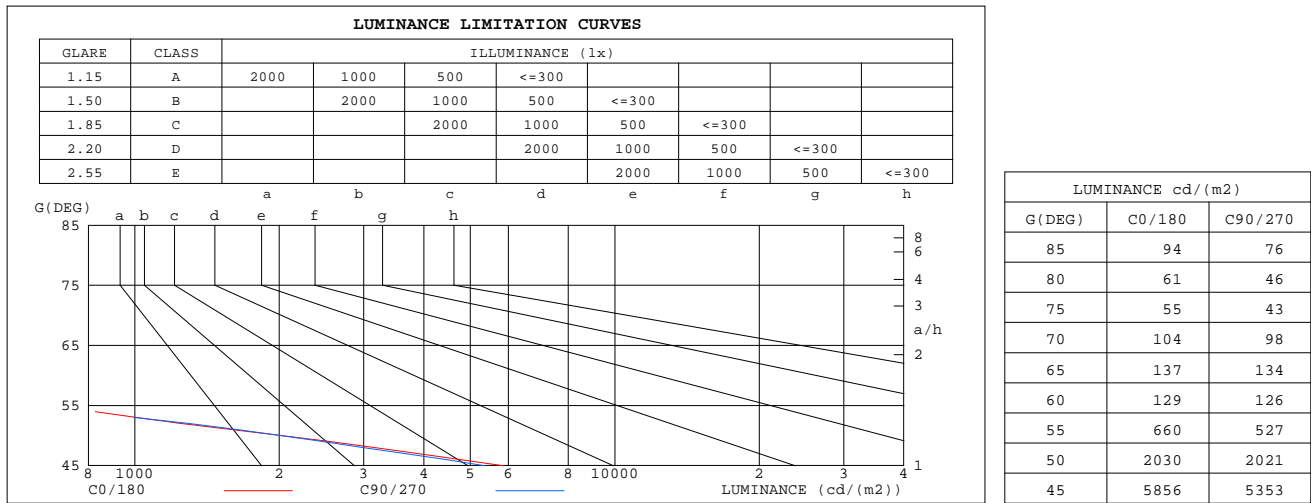
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1437	1458	1460	1437	1391	1371	1377	1409	0- 10	136.5	136.5	12.6,8.64
20	1184	1220	1235	1209	1134	1103	1115	1157	10- 20	373.5	510.0	47.2,32.3
30	530.6	537.7	543.1	537.7	517.7	513.9	521.7	529.0	20- 30	393.8	903.8	83.7,57.2
40	65.03	62.22	62.44	69.98	75.50	83.88	85.44	77.04	30- 40	155.6	1059	98.1,67.1
50	4.883	4.628	4.852	5.310	5.819	6.762	6.706	5.841	40- 50	18.40	1078	99.8,68.2
60	0.2405	0.2317	0.2356	0.2464	0.2481	0.1895	0.1647	0.1643	50- 60	1.650	1080	100,68.3
70	0.1327	0.1227	0.1249	0.1283	0.1384	0.1216	0.1172	0.1105	60- 70	0.1718	1080	100,68.4
80	0.0398	0.0296	0.0301	0.0291	0.0376	0.0301	0.0332	0.0262	70- 80	0.0625	1080	100,68.4
90	0	0	0	0	0	0	0	0	80- 90	0.0236	1080	100,68.4
100	0	0	0	0	0	0	0	0	90-100	0	1080	100,68.4
110	0	0	0	0	0	0	0	0	100-110	0	1080	100,68.4
120	0	0	0	0	0	0	0	0	110-120	0	1080	100,68.4
130	0	0	0	0	0	0	0	0	120-130	0	1080	100,68.4
140	0	0	0	0	0	0	0	0	130-140	0	1080	100,68.4
150	0	0	0	0	0	0	0	0	140-150	0	1080	100,68.4
160	0	0	0	0	0	0	0	0	150-160	0	1080	100,68.4
170	0	0	0	0	0	0	0	0	160-170	0	1080	100,68.4
180	0	0	0	0	0	0	0	0	170-180	0	1080	100,68.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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C Interval: 30.0DEG
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Temperature:25.3℃
Operators:zoe
Test Date:2023-12-1

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:BXRE-30G1000-A-83 Ra:90
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30minutes warm-up

LUMINANCE LIMITATION CURVES

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NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011408
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



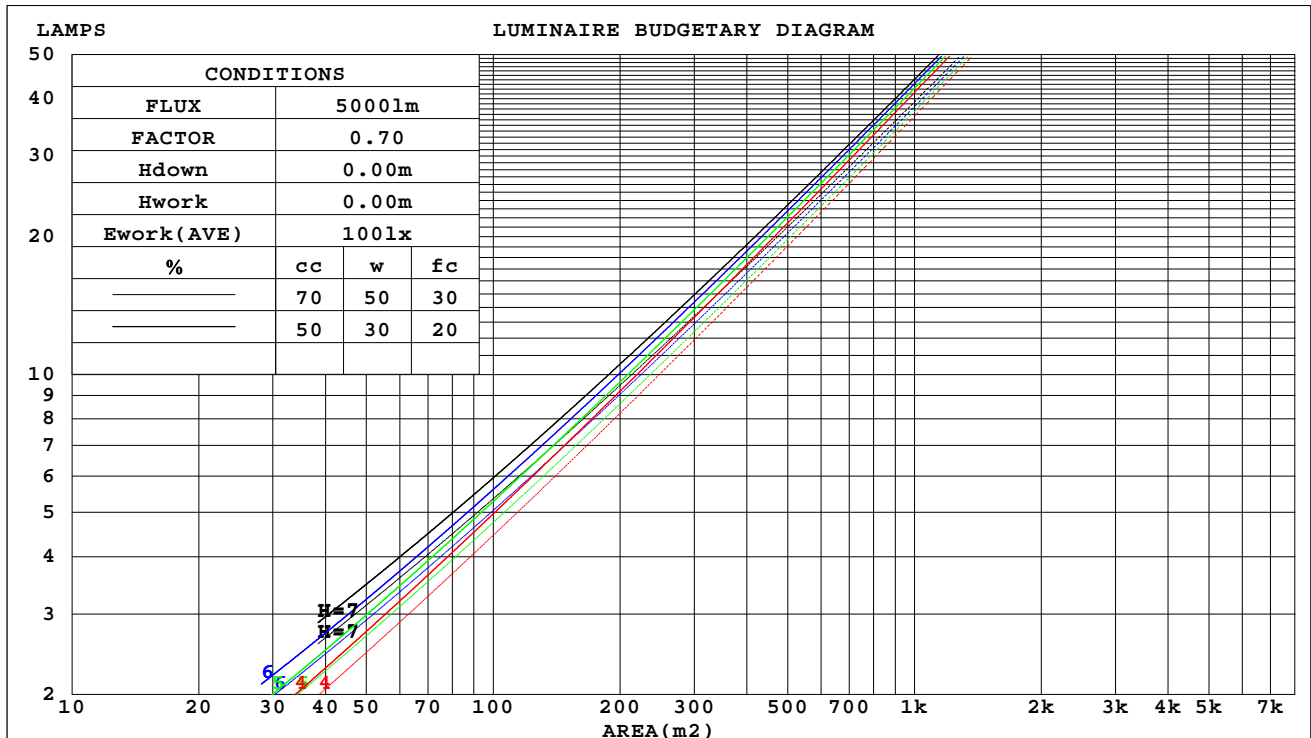
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2312011408
MFR.: RISE	SUR.: 0.003737385m2	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	.81	.81	.81	.79	.79	.79	.76	.76	.76	.73	.73	.73	.70	.70	.70	.68
1.0	.76	.75	.73	.75	.73	.72	.72	.71	.70	.69	.69	.68	.67	.66	.66	.65
2.0	.71	.69	.67	.70	.68	.66	.68	.66	.65	.66	.65	.63	.64	.63	.62	.61
3.0	.67	.64	.62	.66	.63	.61	.65	.62	.60	.63	.61	.59	.61	.60	.58	.57
4.0	.63	.60	.57	.63	.59	.57	.61	.58	.56	.60	.58	.56	.59	.57	.55	.54
5.0	.60	.56	.54	.59	.56	.53	.58	.55	.53	.57	.54	.52	.56	.54	.52	.51
6.0	.57	.53	.50	.56	.53	.50	.55	.52	.50	.54	.51	.49	.53	.51	.49	.48
7.0	.54	.50	.47	.53	.50	.47	.52	.49	.47	.52	.49	.47	.51	.48	.46	.46
8.0	.51	.47	.45	.51	.47	.44	.50	.47	.44	.49	.46	.44	.48	.46	.44	.43
9.0	.48	.45	.42	.48	.45	.42	.47	.44	.42	.47	.44	.42	.46	.44	.42	.41
10.0	.46	.42	.40	.46	.42	.40	.45	.42	.40	.45	.42	.40	.44	.42	.40	.39



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2312011408
MFR.: RISE	SUR.: 0.003737385m2	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	.113	.064	.020	.108	.062	.020	.099	.057	.018	.092	.053	.017	.084	.049	.016		
2.0	.107	.059	.018	.103	.057	.017	.096	.053	.017	.089	.050	.016	.083	.047	.015		
3.0	.102	.054	.016	.098	.053	.016	.092	.050	.015	.087	.047	.015	.081	.045	.014		
4.0	.097	.050	.015	.094	.049	.015	.089	.047	.014	.084	.045	.014	.079	.043	.013		
5.0	.092	.047	.014	.090	.046	.013	.085	.044	.013	.081	.043	.013	.077	.041	.012		
6.0	.088	.044	.013	.086	.043	.013	.082	.042	.012	.078	.041	.012	.075	.039	.012		
7.0	.084	.042	.012	.083	.041	.012	.079	.040	.012	.076	.039	.011	.073	.038	.011		
8.0	.081	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011	.071	.036	.011		
9.0	.078	.038	.011	.076	.037	.010	.074	.036	.010	.071	.036	.010	.069	.035	.010		
10.0	.075	.036	.010	.074	.036	.010	.071	.035	.010	.069	.034	.010	.066	.033	.010		

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	.130	.130	.130	.111	.111	.111	.076	.076	.076	.044	.044	.044	.014	.014	.014	
1.0	.116	.108	.100	.100	.092	.086	.068	.064	.059	.039	.037	.035	.013	.012	.011	
2.0	.105	.091	.078	.090	.078	.068	.062	.054	.047	.036	.031	.028	.011	.010	.009	
3.0	.096	.078	.063	.083	.067	.054	.057	.046	.038	.033	.027	.022	.011	.009	.007	
4.0	.089	.067	.051	.076	.058	.044	.053	.041	.031	.030	.024	.018	.010	.008	.006	
5.0	.083	.059	.042	.071	.051	.036	.049	.036	.026	.028	.021	.015	.009	.007	.005	
6.0	.078	.053	.035	.067	.046	.031	.046	.032	.022	.027	.019	.013	.009	.006	.004	
7.0	.073	.048	.030	.063	.041	.026	.043	.029	.018	.025	.017	.011	.008	.006	.004	
8.0	.069	.043	.025	.060	.038	.022	.041	.026	.016	.024	.016	.009	.008	.005	.003	
9.0	.066	.040	.022	.057	.034	.019	.039	.024	.014	.023	.014	.008	.007	.005	.003	
10.0	.063	.037	.019	.054	.032	.017	.038	.022	.012	.022	.013	.007	.007	.004	.002	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: 2318.111-LEA-14(400mA)					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2312011408		
MFR.: RISE					SUR.: 0.003737385m2			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	15.3	16.2	15.5	16.3	16.5	15.1	15.9	15.3	16.1	16.3
3H	15.1	15.9	15.4	16.1	16.3	14.9	15.7	15.2	15.9	16.1
4H	15.1	15.8	15.3	16.0	16.2	14.8	15.6	15.1	15.8	16.0
6H	15.0	15.7	15.3	15.9	16.2	14.7	15.4	15.0	15.7	15.9
8H	14.9	15.6	15.2	15.9	16.1	14.7	15.4	15.0	15.6	15.9
12H	14.9	15.5	15.2	15.8	16.1	14.6	15.3	15.0	15.6	15.8
4H 2H	15.1	15.8	15.3	16.0	16.2	14.8	15.6	15.1	15.8	16.0
3H	14.9	15.5	15.2	15.8	16.1	14.6	15.3	15.0	15.6	15.8
4H	14.8	15.4	15.1	15.7	16.0	14.6	15.1	14.9	15.4	15.7
6H	14.7	15.2	15.1	15.5	15.9	14.5	15.0	14.8	15.3	15.6
8H	14.6	15.1	15.0	15.5	15.8	14.4	14.9	14.8	15.2	15.6
12H	14.6	15.0	15.0	15.4	15.8	14.4	14.8	14.8	15.2	15.6
8H 4H	14.6	15.1	15.0	15.5	15.8	14.4	14.9	14.8	15.2	15.6
6H	14.5	14.9	15.0	15.3	15.7	14.3	14.7	14.7	15.1	15.5
8H	14.5	14.8	14.9	15.2	15.7	14.2	14.6	14.7	15.0	15.4
12H	14.4	14.7	14.9	15.2	15.6	14.2	14.5	14.7	14.9	15.4
12H 4H	14.6	15.0	15.0	15.4	15.8	14.4	14.8	14.8	15.2	15.6
6H	14.5	14.8	14.9	15.2	15.7	14.2	14.6	14.7	15.0	15.4
8H	14.4	14.7	14.9	15.2	15.6	14.2	14.5	14.7	14.9	15.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.5 / -25.8					+ 4.7 / -26.4				
1.5H	+ 7.1 / -20.1					+ 7.4 / -20.9				
2.0H	+ 7.8 / -15.6					+ 7.7 / -15.4				

CIE Pub.117, 1579 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)
Area: 0.00373738 m2

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UTILIZATION FACTORS TABLE

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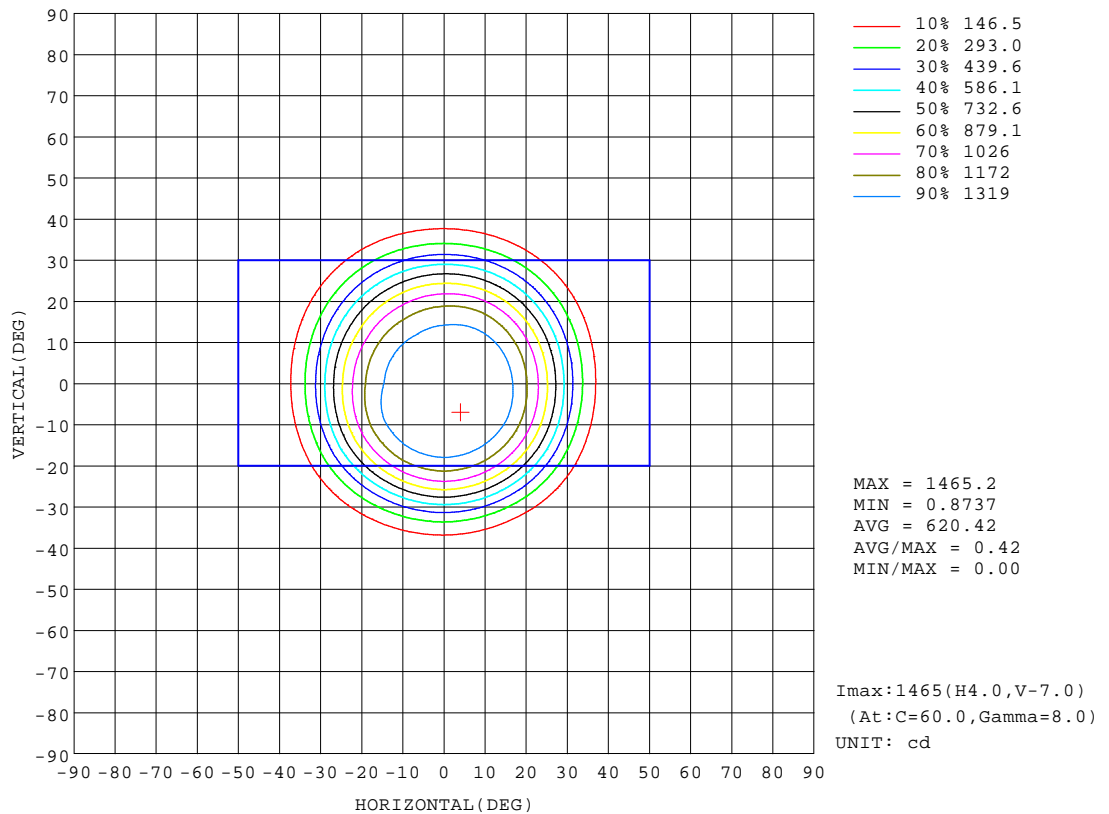
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	58	55	61	58	55	61	57	55	53
0.80	67	63	61	66	63	61	65	62	60	58
1.00	69	66	64	69	66	63	68	65	63	61
1.25	72	69	66	71	68	66	70	67	66	63
1.50	73	71	68	73	70	68	71	69	67	65
2.00	75	72	70	74	72	70	72	70	69	65
2.50	76	74	72	75	73	71	73	71	70	66
3.00	77	75	73	76	74	72	73	72	71	67
4.00	78	77	75	77	75	74	74	73	72	68
5.00	79	78	77	78	76	75	75	74	73	68
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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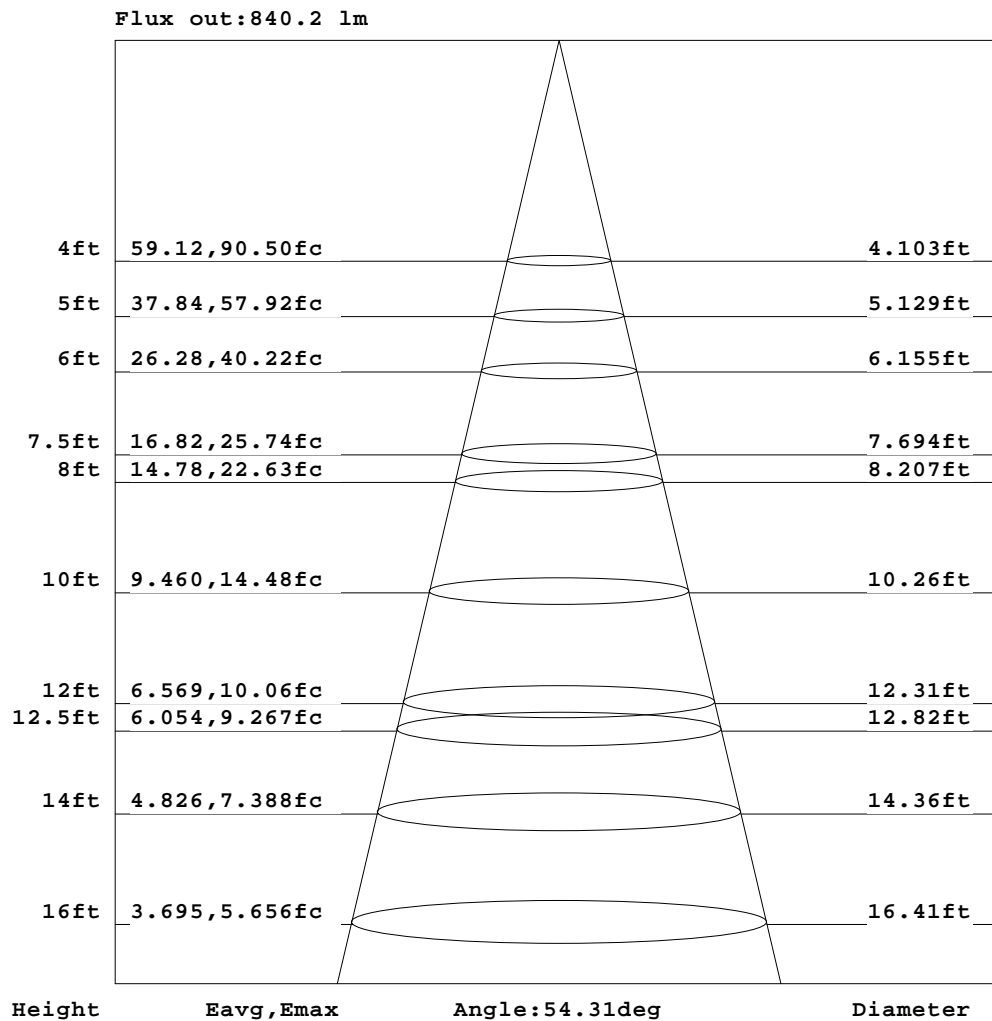


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AAI Figure

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NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011408
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



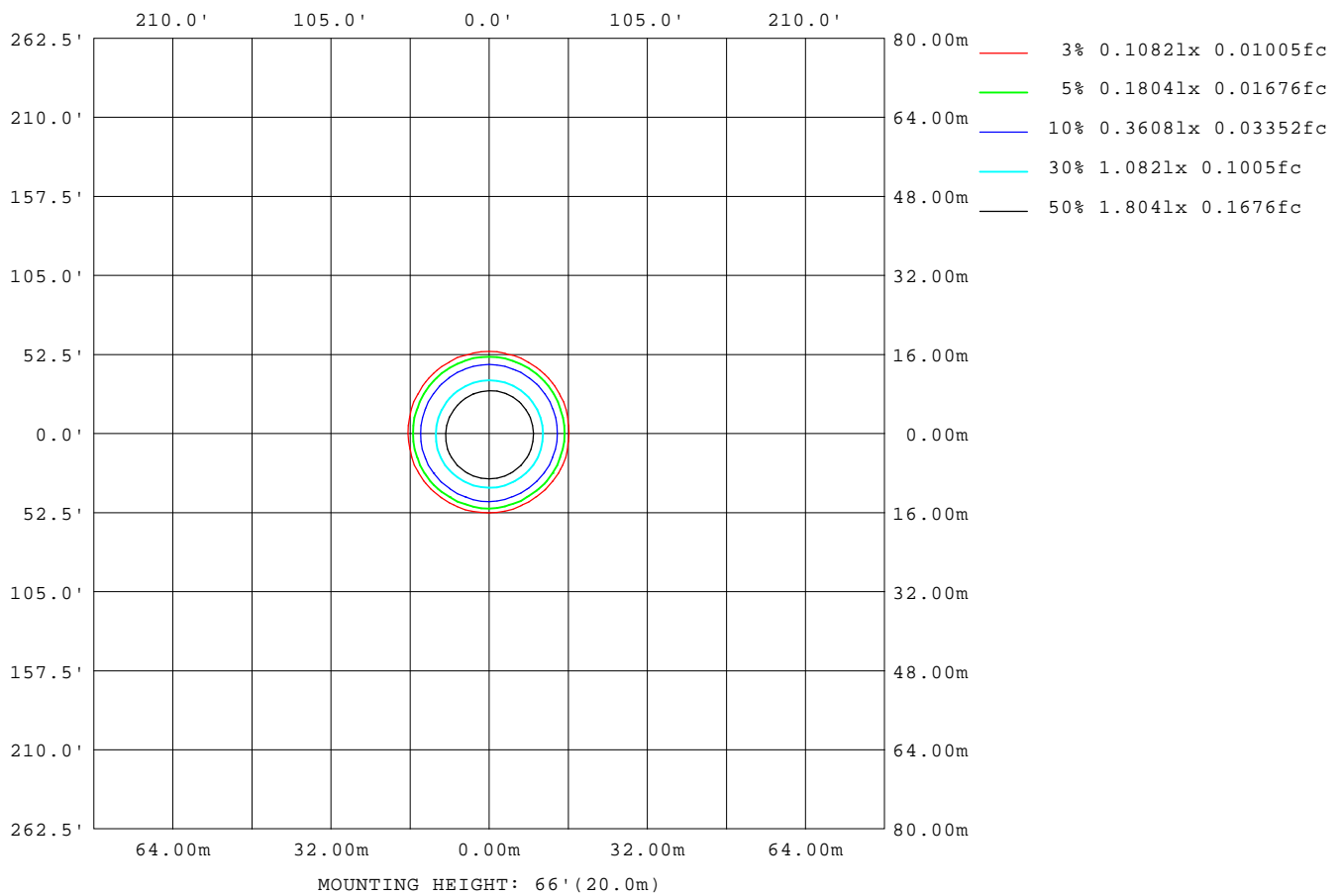
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: zoe
Test Date: 2023-12-1

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: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1082C 50R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.14V I:0.1325A P:15.814W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011408
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-12-1

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:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082C 50R
DRIVER:PUP20A-1WMC 400mA
30minutes warm-up

LED Avg.L Report

Test:U:120.14V I:0.1325A P:15.814W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011408
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

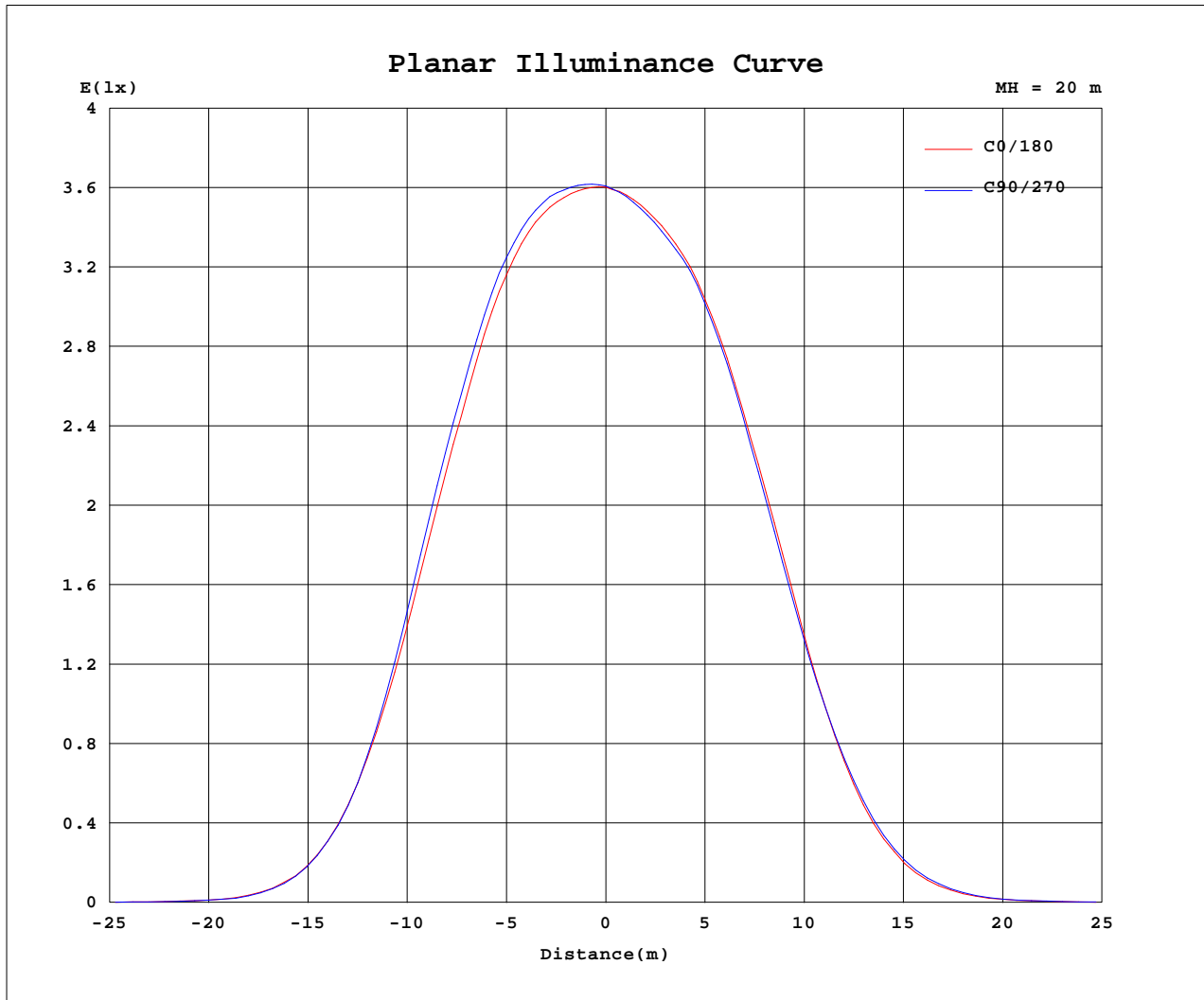
AvgL	cd/m2
L_0~180(65)av	135
L_0~180(75)av	56
L_0~180(85)av	87
L_90~270(65)av	107
L_90~270(75)av	46
L_90~270(85)av	77
L_45(65)av	110
L_45(75)av	45
L_45(85)av	58

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-12-1

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:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082C 50R
DRIVER:PUP20A-1WMC 400mA
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: 2023-12-1

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: BXRE-30G1000-A-83 Ra:90
 LENS: PM-1082C 50R
 DRIVER: PUP20A-1WMC 400mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.14V I:0.1325A P:15.814W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.111-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312011408
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1443	1443	1443	1443	1443	1443	1443	1443	1443	1443	1443	1443						
5	1446	1457	1459	1457	1450	1437	1423	1414	1410	1414	1424	1433						
10	1437	1455	1461	1460	1448	1425	1391	1375	1367	1377	1398	1419						
15	1368	1397	1402	1407	1392	1367	1311	1297	1284	1297	1326	1347						
20	1184	1213	1227	1235	1223	1195	1134	1109	1097	1115	1149	1165						
25	893	918	926	941	923	908	860	833	827	837	859	875						
30	531	544	531	543	532	543	518	514	514	522	528	530						
35	226	229	210	226	223	239	234	242	247	247	245	239						
40	65.0	66.5	57.9	62.4	65.8	74.1	75.5	83.4	84.3	85.4	78.9	75.2						
45	15.5	15.2	13.3	14.1	14.8	16.7	19.1	20.0	22.8	20.2	19.9	17.2						
50	4.88	4.82	4.44	4.85	5.02	5.60	5.82	6.56	6.96	6.71	6.11	5.57						
55	1.42	1.37	1.16	1.13	1.25	1.44	1.48	1.52	1.67	1.61	1.43	1.29						
60	0.24	0.23	0.23	0.24	0.24	0.25	0.25	0.20	0.18	0.16	0.16	0.17						
65	0.22	0.21	0.21	0.21	0.21	0.22	0.21	0.15	0.13	0.12	0.12	0.15						
70	0.13	0.12	0.12	0.12	0.13	0.13	0.14	0.12	0.13	0.12	0.12	0.10						
75	0.05	0.04	0.04	0.04	0.05	0.05	0.06	0.05	0.05	0.05	0.04	0.04						
80	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03						
85	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.02						
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
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