

Luminaire Photograph



Light Output Ratio:	66.7%	
Luminaire Power:	7.889 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: LIRONGTONG
Test Date: 2017-08-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity: 65%
Test Distance: 2.990m [K=1.0000]
Remarks: LAMP: HL-A-3014H421W-S1-08-HR3 Ra: 80
DC24V 8W
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

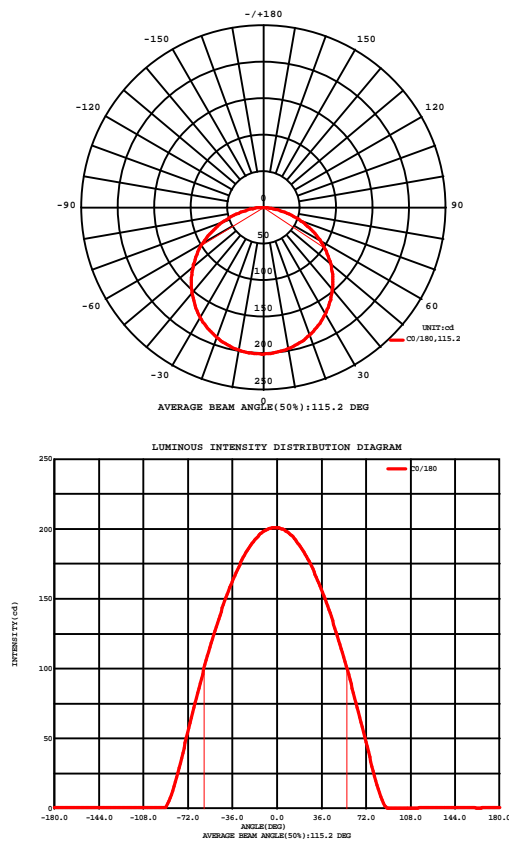


Fig. C0/C180

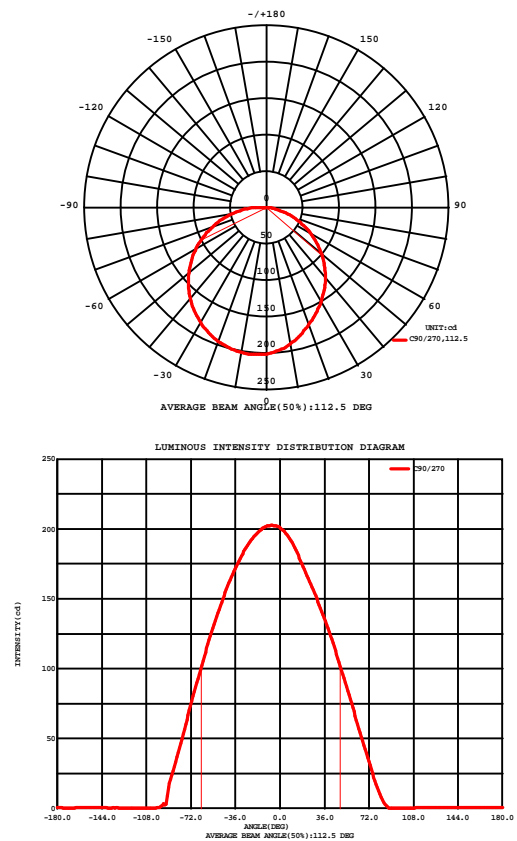


Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: LIRONGTONG
Test Date: 2017-08-22

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity: 65%
Test Distance: 2.990m [K=1.0000]
Remarks: LAMP: HL-A-3014H421W-S1-08-HR3 Ra: 80
DC24V 8W
30minutes warm-up

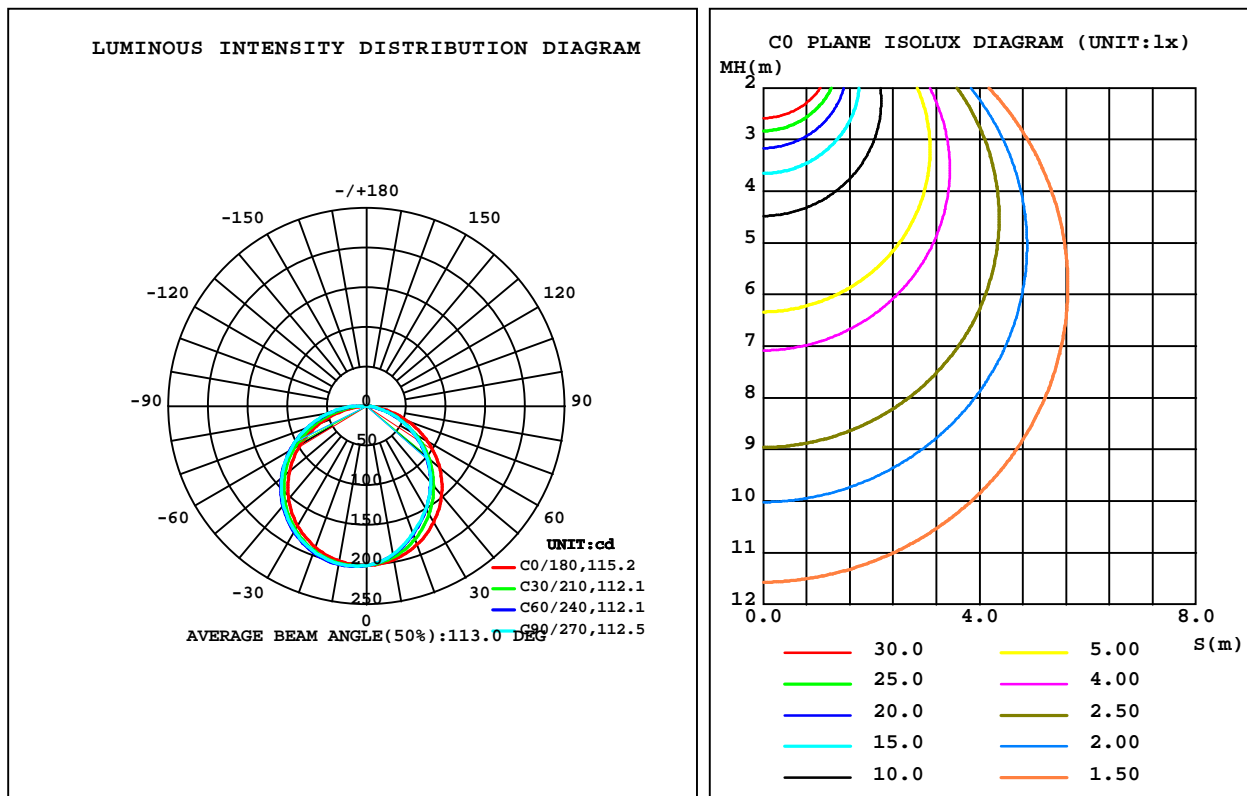


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.911V I:0.3300A P:7.8894W PF:1.0000 Freq:0Hz Lamp Flux:879.47x1 lm		
NAME: 1510.023C.3BTA	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1708230079
MFR.: RISE	SUR.:0.0102m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.39 lm/W			
MODEL	HONGLI	I _{max} (cd)	203.1	S/MH(C0/180)	1.29
NOMINAL POWER(W)	8	LOR(%)	66.7	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	586.91	h UP,DN(C0-180)	0.2,28.8
NOMINAL FLUX(lm)	879.47	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.3,37.5
LAMPS INSIDE	1	h up(%)	0.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	66.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
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Temperature:25DEG
Operators:LIRONGTONG
Test Date:2017-08-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 Ra:80
DC24V 8W
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	196.7	192.2	190.1	193.4	198.6	201.9	201.9	200.8	0- 10	18.99	18.99	3.24,2.16
20	186.1	175.6	170.8	178.0	189.6	195.3	195.2	192.7	10- 20	54.17	73.17	12.5,8.32
30	169.4	153.8	149.9	157.5	174.4	181.7	182.1	178.1	20- 30	81.76	154.9	26.4,17.6
40	147.3	128.9	126.2	133.4	153.3	162.4	163.4	157.8	30- 40	98.72	253.7	43.2,28.8
50	120.4	100.6	98.71	105.9	127.1	137.9	139.7	132.7	40- 50	103.1	356.7	60.8,40.6
60	89.18	70.40	69.23	75.48	96.08	108.7	111.5	103.2	50- 60	94.24	451.0	76.8,51.3
70	54.72	39.30	39.49	43.96	61.30	75.59	80.20	70.20	60- 70	73.32	524.3	89.3,59.6
80	20.03	11.64	12.46	15.09	25.45	40.50	46.49	35.75	70- 80	43.87	568.2	96.8,64.6
90	0.2126	0.4102	0.2273	0.4600	0.8385	9.269	15.06	7.009	80- 90	14.71	582.9	99.3,66.3
100	0.2841	0.3524	0.3349	0.5538	0.7057	0.3862	0.3162	0.3731	90-100	1.190	584.1	99.5,66.4
110	0.4079	0.6024	0.4642	0.6256	0.7651	0.4484	0.2468	0.4437	100-110	0.4931	584.6	99.6,66.5
120	0.5020	0.6621	0.5644	0.6981	0.8317	0.5252	0.3532	0.4775	110-120	0.5433	585.1	99.7,66.5
130	0.5750	0.6648	0.6362	0.7275	0.8211	0.5662	0.4477	0.4983	120-130	0.5404	585.6	99.8,66.6
140	0.5878	0.6377	0.6473	0.7057	0.7530	0.5617	0.4597	0.4890	130-140	0.4739	586.1	99.9,66.6
150	0.5394	0.5815	0.6351	0.6371	0.6367	0.5259	0.4848	0.4643	140-150	0.3670	586.5	99.9,66.7
160	0.4612	0.5043	0.5558	0.5955	0.5119	0.4751	0.4696	0.4269	150-160	0.2470	586.7	100,66.7
170	0.4941	0.4828	0.5170	0.5348	0.4932	0.4581	0.4412	0.4404	160-170	0.1375	586.9	100,66.7
180	0.5393	0.5327	0.5120	0.5323	0.5393	0.5333	0.5077	0.5317	170-180	0.0472	586.9	100,66.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test Date:2017-08-22

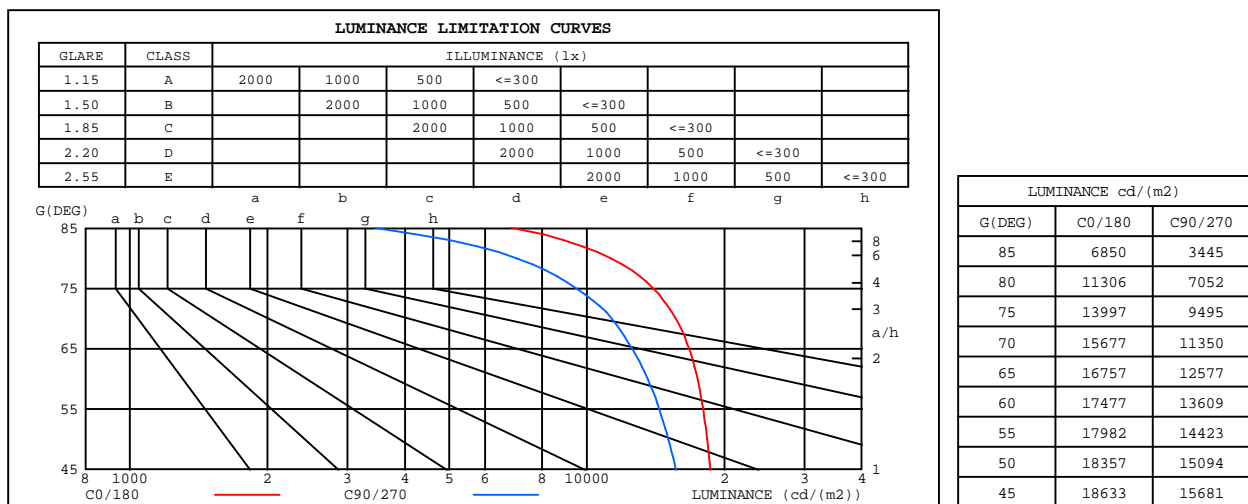
g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 Ra:80
DC24V 8W
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:23.911V I:0.3300A P:7.8894W PF:1.0000 Freq:0Hz Lamp Flux:879.47x1 lm		
NAME: 1510.023C.3BTA	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1708230079
MFR.: RISE	SUR.:0.0102m2	Shielding Angle:



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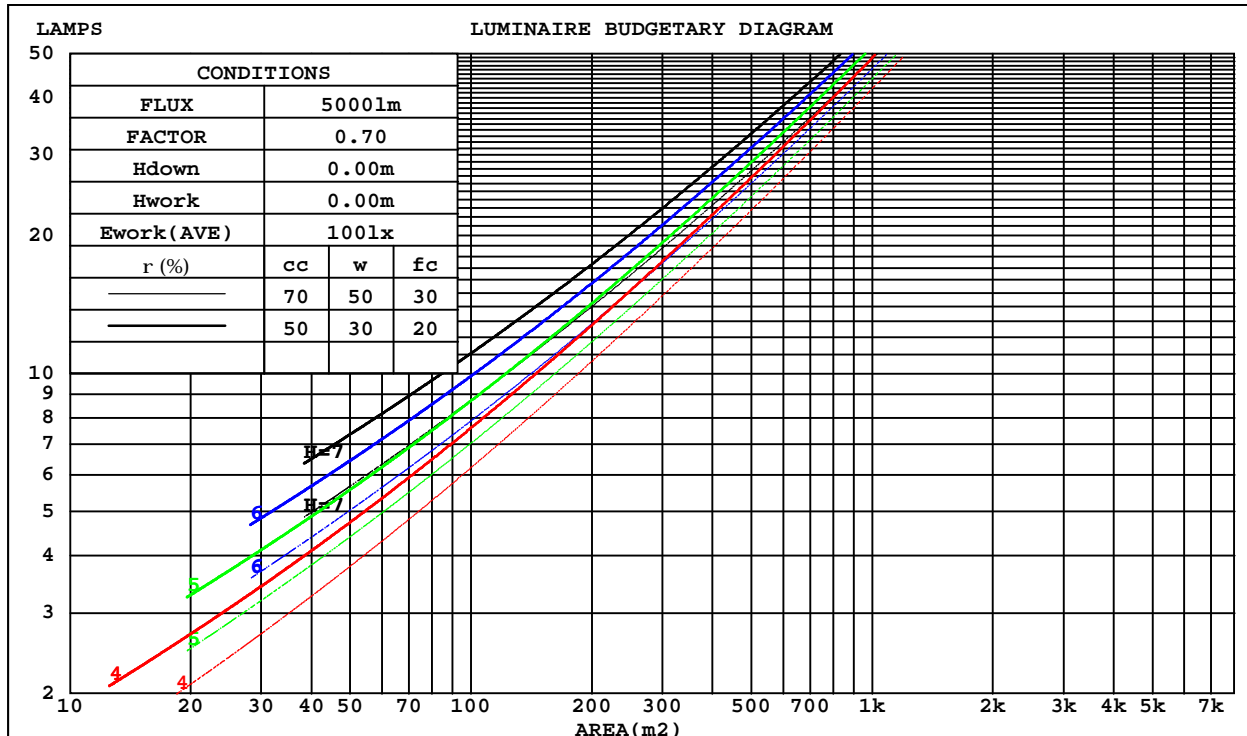


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:1708230079
MFR.: RISE	SUR.:0.0102m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.79	.79	.79	.77	.77	.77	.74	.74	.74	.71	.71	.71	.68	.68	.68	.66
1.0	.69	.66	.63	.67	.65	.62	.64	.62	.60	.62	.60	.58	.59	.58	.56	.55
2.0	.60	.55	.51	.59	.54	.51	.56	.52	.49	.54	.51	.48	.52	.49	.47	.45
3.0	.52	.47	.42	.51	.46	.42	.49	.45	.41	.47	.44	.40	.46	.42	.40	.38
4.0	.46	.40	.36	.45	.40	.36	.44	.39	.35	.42	.38	.34	.41	.37	.34	.32
5.0	.41	.35	.31	.41	.35	.31	.39	.34	.30	.38	.33	.30	.36	.33	.29	.28
6.0	.37	.31	.27	.37	.31	.27	.35	.30	.26	.34	.30	.26	.33	.29	.26	.24
7.0	.34	.28	.24	.33	.28	.24	.32	.27	.23	.31	.26	.23	.30	.26	.23	.22
8.0	.31	.25	.21	.30	.25	.21	.29	.24	.21	.28	.24	.21	.28	.24	.20	.19
9.0	.28	.23	.19	.28	.22	.19	.27	.22	.19	.26	.22	.19	.25	.21	.18	.17
10.0	.26	.21	.17	.26	.21	.17	.25	.20	.17	.24	.20	.17	.24	.20	.17	.16



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Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 Ra:80
DC24V 8W
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:23.911V I:0.3300A P:7.8894W PF:1.0000 Freq:0Hz Lamp Flux:879.47x1 lm		
NAME: 1510.023C.3BTA	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1708230079
MFR.: RISE	SUR.:0.0102m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.213	.121	.038	.208	.119	.038	.199	.114	.036	.191	.110	.035	.183	.106	.034	
2.0	.199	.109	.033	.194	.107	.033	.186	.104	.032	.179	.100	.031	.172	.097	.031	
3.0	.183	.097	.029	.179	.096	.029	.172	.093	.028	.165	.091	.028	.159	.088	.027	
4.0	.168	.087	.026	.165	.086	.026	.159	.084	.025	.153	.082	.025	.147	.080	.024	
5.0	.155	.079	.023	.152	.078	.023	.147	.076	.022	.141	.075	.022	.136	.073	.022	
6.0	.144	.072	.021	.141	.071	.021	.136	.070	.020	.131	.068	.020	.127	.067	.020	
7.0	.134	.066	.019	.131	.065	.019	.127	.064	.018	.122	.063	.018	.119	.062	.018	
8.0	.125	.061	.017	.123	.060	.017	.118	.059	.017	.115	.058	.017	.111	.057	.017	
9.0	.117	.056	.016	.115	.056	.016	.111	.055	.016	.108	.054	.015	.105	.053	.015	
10.0	.110	.053	.015	.108	.052	.015	.105	.051	.014	.102	.050	.014	.099	.050	.014	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.131	.131	.131	.112	.112	.112	.076	.076	.076	.044	.044	.044	.014	.014	.014	
1.0	.124	.108	.093	.106	.092	.080	.073	.064	.055	.042	.037	.032	.013	.012	.010	
2.0	.119	.092	.068	.102	.079	.059	.070	.055	.041	.040	.032	.024	.013	.010	.008	
3.0	.114	.080	.053	.098	.069	.046	.067	.048	.032	.039	.028	.019	.012	.009	.006	
4.0	.109	.071	.042	.093	.061	.037	.064	.043	.026	.037	.025	.015	.012	.008	.005	
5.0	.104	.064	.035	.089	.055	.030	.061	.039	.021	.036	.023	.013	.011	.007	.004	
6.0	.099	.059	.030	.085	.051	.026	.059	.035	.018	.034	.021	.011	.011	.007	.004	
7.0	.094	.054	.026	.081	.047	.022	.056	.033	.016	.033	.019	.009	.011	.006	.003	
8.0	.090	.050	.023	.077	.043	.020	.054	.031	.014	.031	.018	.008	.010	.006	.003	
9.0	.086	.047	.020	.074	.041	.018	.051	.029	.013	.030	.017	.008	.010	.006	.002	
10.0	.082	.044	.019	.071	.038	.016	.049	.027	.011	.029	.016	.007	.009	.005	.002	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
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g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 Ra:80
DC24V 8W
30minutes warm-up

RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:23.911V I:0.3300A P:7.8894W PF:1.0000 Freq:0Hz Lamp Flux:879.47x1 lm										
NAME: 1510.023C.3BTA					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:1708230079		
MFR.: RISE					SUR.:0.0102m2			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	22.6	24.1	22.9	24.3	24.6	21.7	23.3	22.0	23.5	23.7
3H	24.1	25.5	24.4	25.8	26.0	23.0	24.4	23.3	24.6	24.9
4H	24.7	26.0	25.0	26.3	26.6	23.4	24.7	23.7	25.0	25.3
6H	25.0	26.3	25.4	26.6	26.9	23.6	24.9	24.0	25.2	25.5
8H	25.1	26.3	25.5	26.6	26.9	23.6	24.9	24.0	25.2	25.5
12H	25.1	26.3	25.5	26.6	26.9	23.6	24.8	24.0	25.1	25.4
4H 2H	23.0	24.3	23.3	24.6	24.8	22.3	23.6	22.6	23.9	24.2
3H	24.6	25.8	24.9	26.1	26.4	23.7	24.9	24.0	25.2	25.5
4H	25.2	26.3	25.6	26.6	27.0	24.2	25.3	24.6	25.6	26.0
6H	25.7	26.6	26.1	27.0	27.4	24.5	25.4	24.9	25.8	26.2
8H	25.8	26.7	26.2	27.1	27.5	24.5	25.4	24.9	25.8	26.2
12H	25.9	26.7	26.3	27.1	27.5	24.5	25.3	25.0	25.7	26.2
8H 4H	25.3	26.2	25.7	26.6	27.0	24.4	25.2	24.8	25.6	26.0
6H	25.8	26.6	26.3	27.0	27.4	24.7	25.5	25.2	25.9	26.3
8H	26.0	26.7	26.5	27.1	27.6	24.8	25.5	25.3	25.9	26.4
12H	26.1	26.7	26.6	27.1	27.6	24.8	25.4	25.3	25.9	26.3
12H 4H	25.3	26.1	25.7	26.5	26.9	24.3	25.2	24.8	25.6	26.0
6H	25.8	26.5	26.3	26.9	27.4	24.7	25.4	25.2	25.8	26.3
8H	26.0	26.6	26.5	27.0	27.5	24.8	25.4	25.3	25.9	26.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.3				

CIE Pub.117, 879.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)

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UTILIZATION FACTORS TABLE

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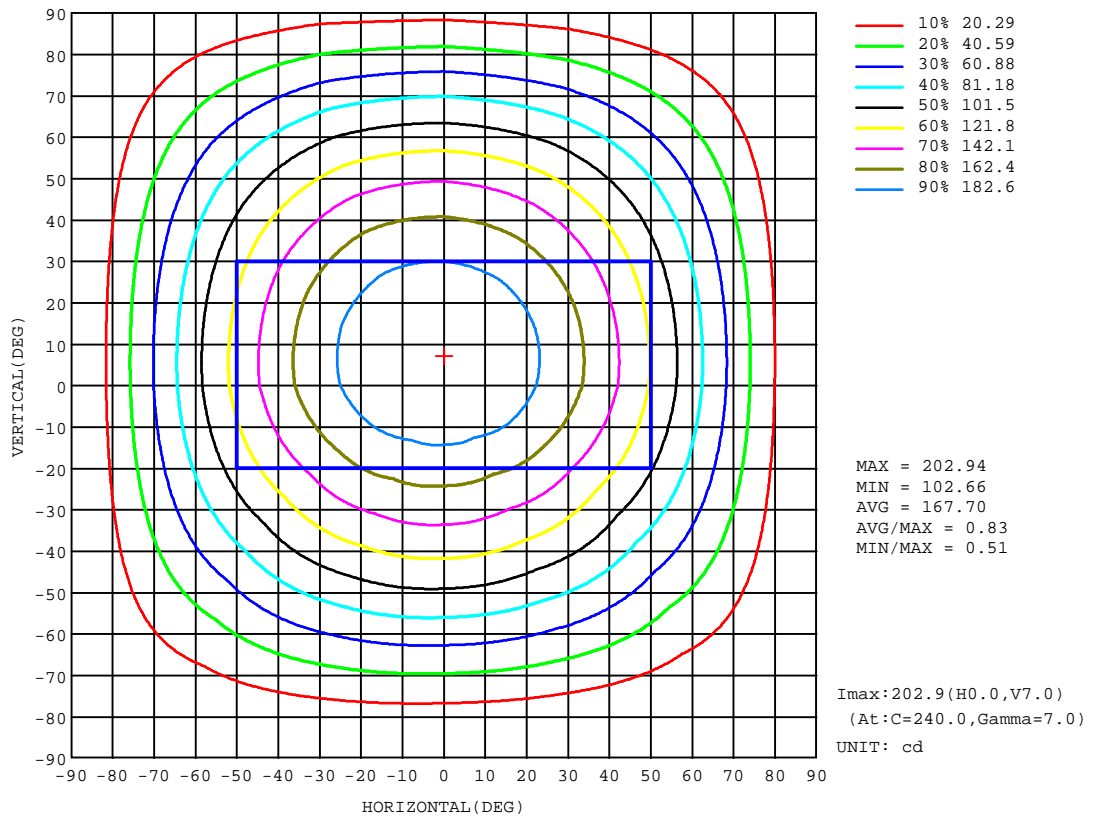
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	38	30	25	37	30	25	37	30	25	21
0.80	45	37	32	44	36	32	43	36	31	27
1.00	50	43	38	49	42	37	48	43	37	32
1.25	55	48	43	54	47	43	52	46	42	37
1.50	58	51	47	57	51	46	55	50	46	40
2.00	63	57	53	62	56	52	59	55	51	46
2.50	65	60	56	64	59	55	61	57	54	48
3.00	68	63	59	66	62	58	63	60	57	51
4.00	70	67	63	69	65	62	66	63	61	54
5.00	72	69	66	70	67	65	67	65	63	56
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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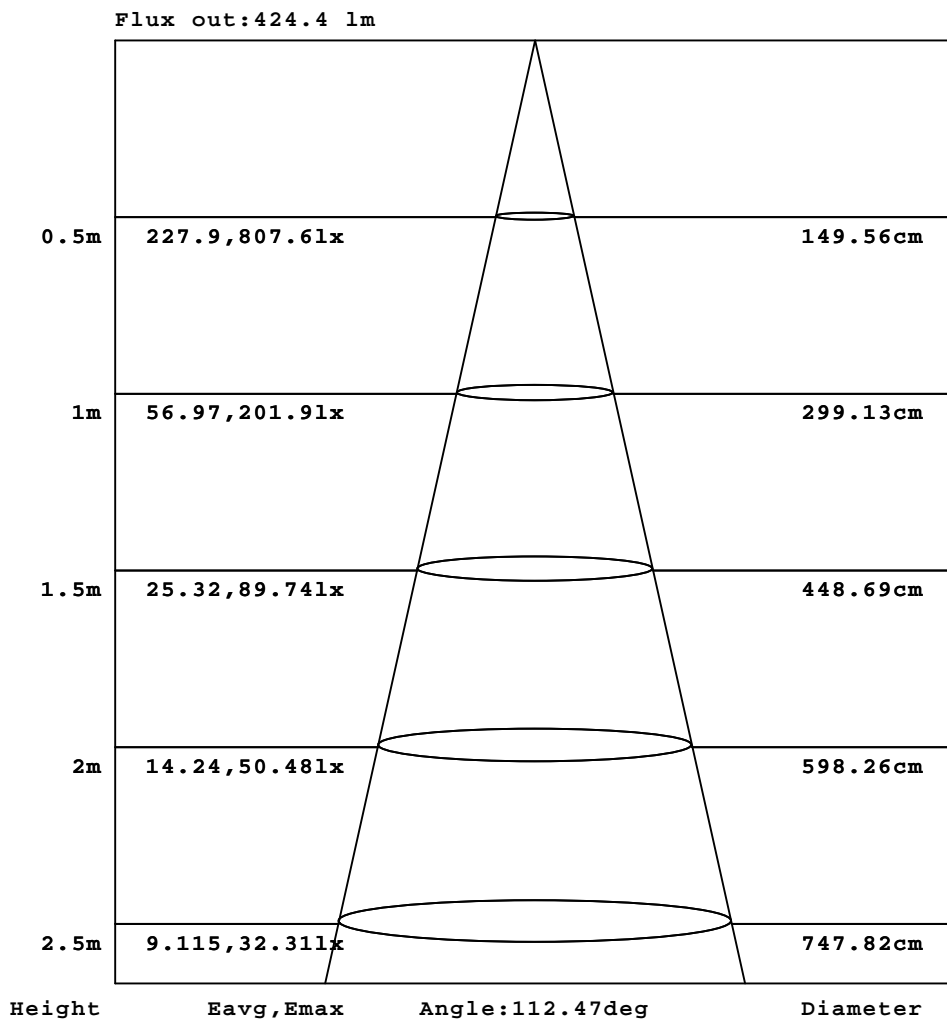


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:LIRONGTONG
Test Date:2017-08-22

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 Ra:80
DC24V 8W
30minutes warm-up

AAI Figure

Test:U:23.911V I:0.3300A P:7.8894W PF:1.0000 Freq:0Hz Lamp Flux:879.47x1 lm		
NAME: 1510.023C.3BTA	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1708230079
MFR.: RISE	SUR.:0.0102m2	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:25DEG
 Operators:LIRONGTONG
 Test Date:2017-08-22

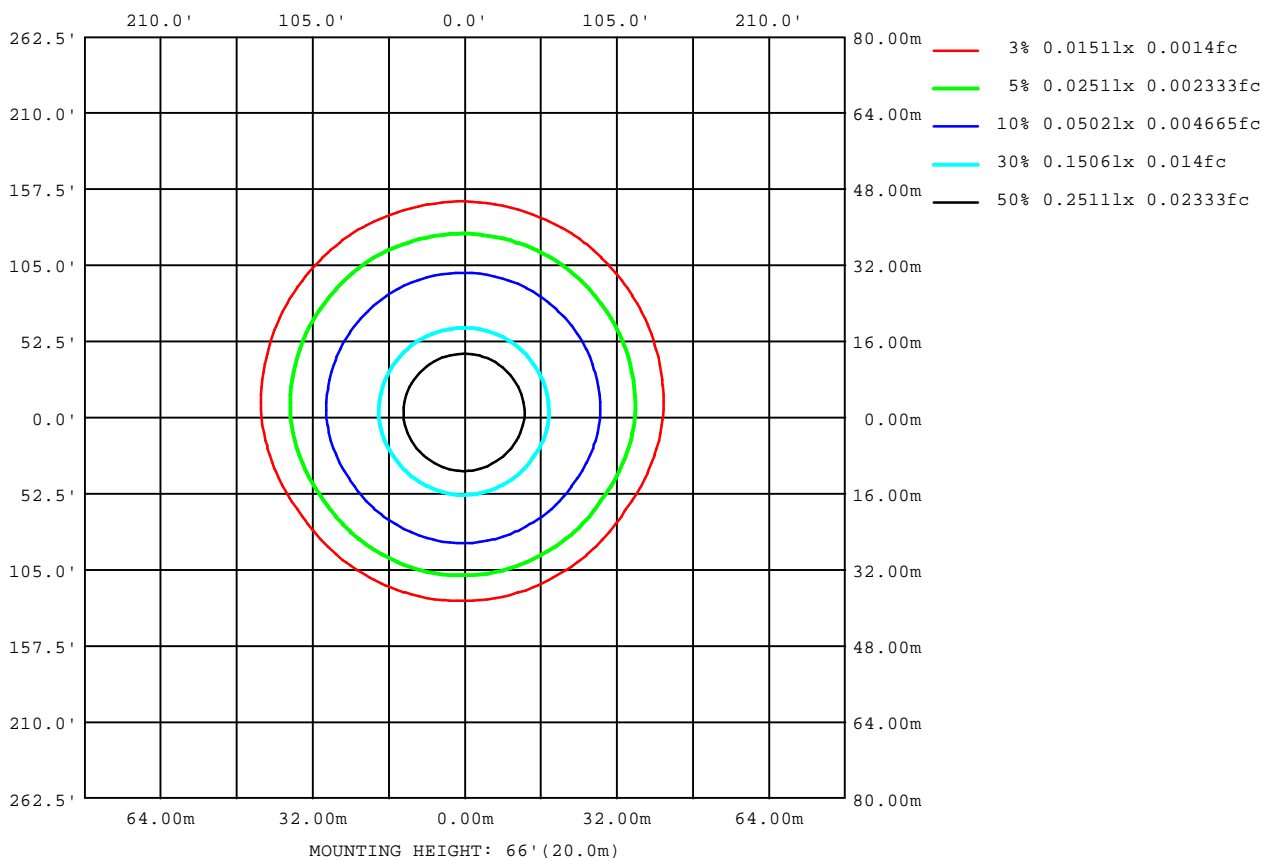
g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65%
 Test Distance:2.990m [K=1.0000]
 Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 Ra:80
 DC24V 8W
 30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:23.911V I:0.3300A P:7.8894W PF:1.0000 Freq:0Hz Lamp Flux:879.47x1 lm		
NAME: 1510.023C.3BTA	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1708230079
MFR.: RISE	SUR.:0.0102m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:LIRONGTONG
Test Date:2017-08-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 Ra:80
DC24V 8W
30minutes warm-up

LED Avg.L Report

Test:U:23.911V I:0.3300A P:7.8894W PF:1.0000 Freq:0Hz Lamp Flux:879.47x1 lm		
NAME: 1510.023C.3BTA	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1708230079
MFR.: RISE	SUR.:0.0102m2	Shielding Angle:

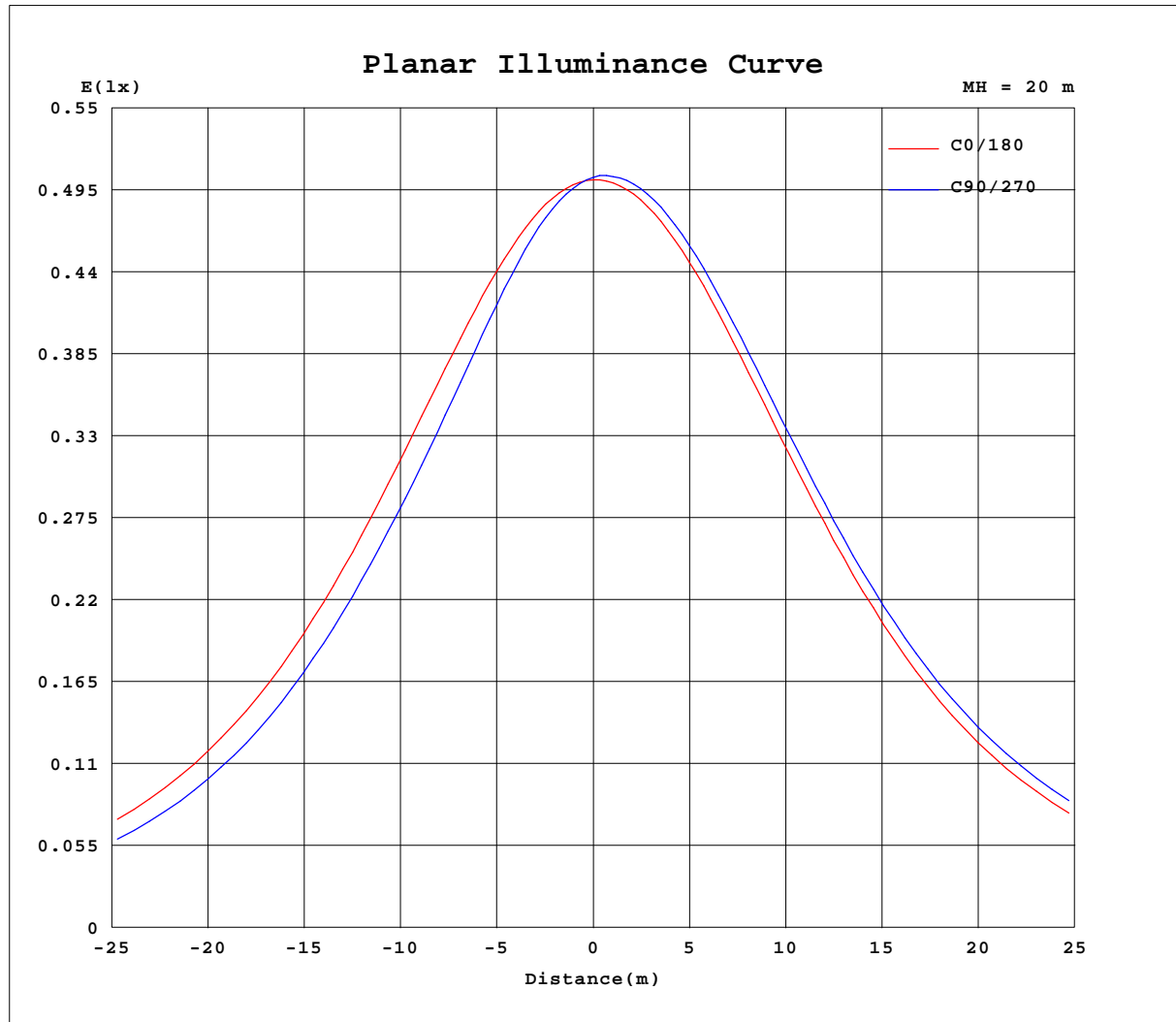
AvgL	cd/m2
L_0~180(65)av	17552
L_0~180(75)av	15174
L_0~180(85)av	9027
L_90~270(65)av	17405
L_90~270(75)av	16741
L_90~270(85)av	18683
L_45(65)av	17005
L_45(75)av	15532
L_45(85)av	14540

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:LIRONGTONG
Test Date:2017-08-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:HL-A-3014H421W-S1-08-HR3 Ra:80
DC24V 8W
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: LIRONGTONG
 Test Date: 2017-08-22

deg Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65%
 Test Distance: 2.990m [K=1.0000]
 Remarks: LAMP: HL-A-3014H421W-S1-08-HR3 Ra: 80
 DC24V 8W
 30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.911V I:0.3300A P:7.8894W PF:1.0000 Freq:0Hz Lamp Flux:879.47x1 lm		
NAME: 1510.023C.3BTA	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1708230079
MFR.: RISE	SUR.:0.0102m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	201	201	201	201	201	201	201	201	201	201	201	201						
5	200	198	197	197	198	199	201	202	203	202	202	201						
10	197	194	191	190	192	195	199	201	203	202	202	199						
15	192	187	182	181	183	189	195	198	201	199	199	196						
20	186	179	172	171	174	182	190	194	197	195	195	191						
25	178	169	161	160	164	173	183	188	191	189	188	184						
30	169	157	150	150	153	162	174	180	184	182	181	176						
35	159	145	138	139	142	150	165	171	175	173	171	166						
40	147	132	126	126	129	137	153	160	165	163	161	155						
45	134	118	113	113	116	124	141	148	153	152	149	142						
50	120	103	97.9	98.7	102	110	127	135	141	140	137	129						
55	105	87.8	83.7	84.2	87.8	94.3	112	121	127	126	123	114						
60	89.2	72.1	68.7	69.2	72.5	78.4	96.1	105	112	111	108	98.8						
65	72.3	56.0	53.5	54.1	57.2	62.2	79.1	88.9	96.3	96.0	91.8	82.3						
70	54.7	40.0	38.6	39.5	42.1	45.8	61.3	71.6	79.6	80.2	75.2	65.2						
75	37.0	25.2	24.3	25.0	27.5	30.2	43.2	53.7	62.4	63.4	58.2	47.6						
80	20.0	12.4	10.9	12.5	14.0	16.2	25.4	35.9	45.1	46.5	41.2	30.3						
85	6.09	3.19	2.56	3.05	4.11	5.35	9.96	19.4	28.5	30.2	25.1	14.7						
90	0.21	0.48	0.34	0.23	0.35	0.57	0.84	5.53	13.0	15.1	10.8	3.27						
95	0.22	0.50	0.39	0.27	0.39	0.57	0.66	0.53	1.98	2.19	1.23	0.41						
100	0.28	0.33	0.37	0.33	0.46	0.65	0.71	0.49	0.28	0.32	0.30	0.45						
105	0.34	0.63	0.52	0.40	0.51	0.68	0.77	0.53	0.30	0.19	0.33	0.48						
110	0.41	0.66	0.54	0.46	0.55	0.70	0.77	0.55	0.34	0.25	0.38	0.51						
115	0.46	0.66	0.62	0.52	0.60	0.74	0.81	0.58	0.40	0.30	0.41	0.51						
120	0.50	0.65	0.67	0.56	0.64	0.76	0.83	0.61	0.44	0.35	0.45	0.51						
125	0.53	0.65	0.69	0.60	0.67	0.77	0.86	0.63	0.48	0.40	0.48	0.51						
130	0.58	0.64	0.68	0.64	0.68	0.77	0.82	0.64	0.49	0.45	0.48	0.51						
135	0.59	0.64	0.67	0.65	0.68	0.77	0.79	0.64	0.49	0.46	0.47	0.51						
140	0.59	0.61	0.66	0.65	0.67	0.74	0.75	0.62	0.50	0.46	0.47	0.51						
145	0.57	0.58	0.63	0.66	0.65	0.69	0.70	0.60	0.49	0.49	0.46	0.49						
150	0.54	0.56	0.61	0.64	0.63	0.65	0.64	0.56	0.49	0.48	0.46	0.47						
155	0.51	0.52	0.57	0.61	0.63	0.61	0.58	0.51	0.49	0.48	0.45	0.44						
160	0.46	0.48	0.53	0.56	0.62	0.58	0.51	0.47	0.48	0.47	0.44	0.41						
165	0.45	0.47	0.49	0.52	0.57	0.56	0.49	0.46	0.47	0.46	0.42	0.42						
170	0.49	0.49	0.47	0.52	0.54	0.53	0.49	0.46	0.46	0.44	0.43	0.45						
175	0.52	0.53	0.49	0.49	0.54	0.52	0.50	0.48	0.49	0.45	0.45	0.51						
180	0.54	0.54	0.53	0.51	0.52	0.54	0.54	0.54	0.53	0.51	0.52	0.54						

C Range: 0 - 360DEG
C Interval: 30.0DEG
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Test Date:2017-08-22

g Range: 0 - 180DEG
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30minutes warm-up