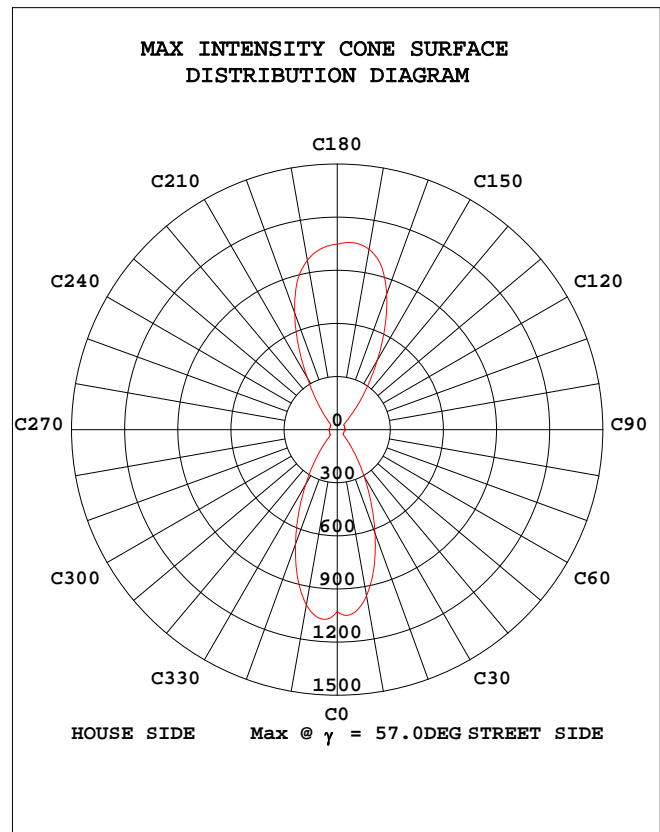
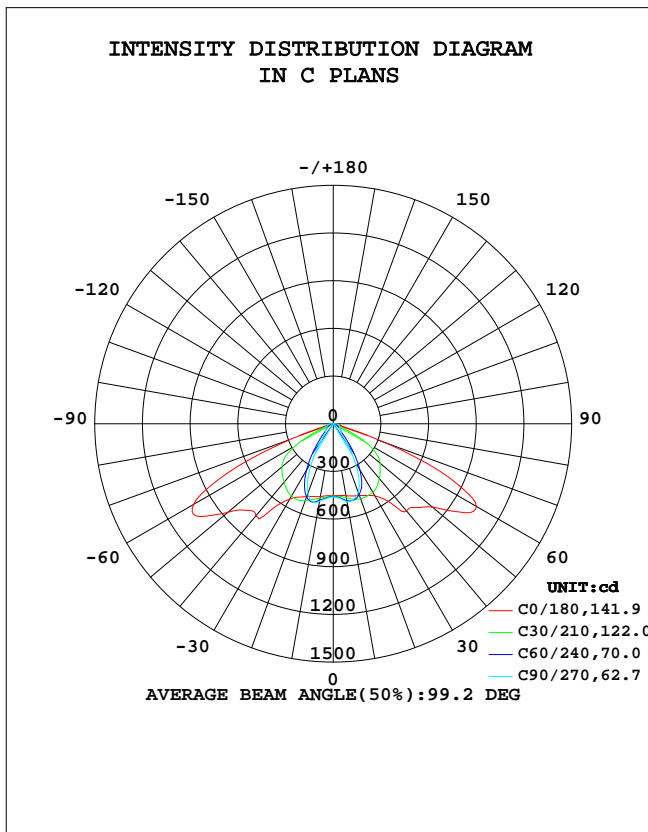


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: LED SOLAR STREET LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ZGSM	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.00 lm/W			
MODEL	ZGSM-PV5010	Imax(cd)	1047	$\eta$ street_up(%)	0.0
NOMINAL POWER(W)	10	LOR(%)	100.0	$\eta$ street_down(%)	50.3
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	1450	$\eta$ house_up(%)	0.0
NOMINAL FLUX(lm)	1450	MAXIMUM @(C, $\gamma$ )	180,57.0	$\eta$ house_down(%)	49.8
LAMPS INSIDE	1	$\eta$ up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	$\eta$ down(%)	100.0	SLI	18.262

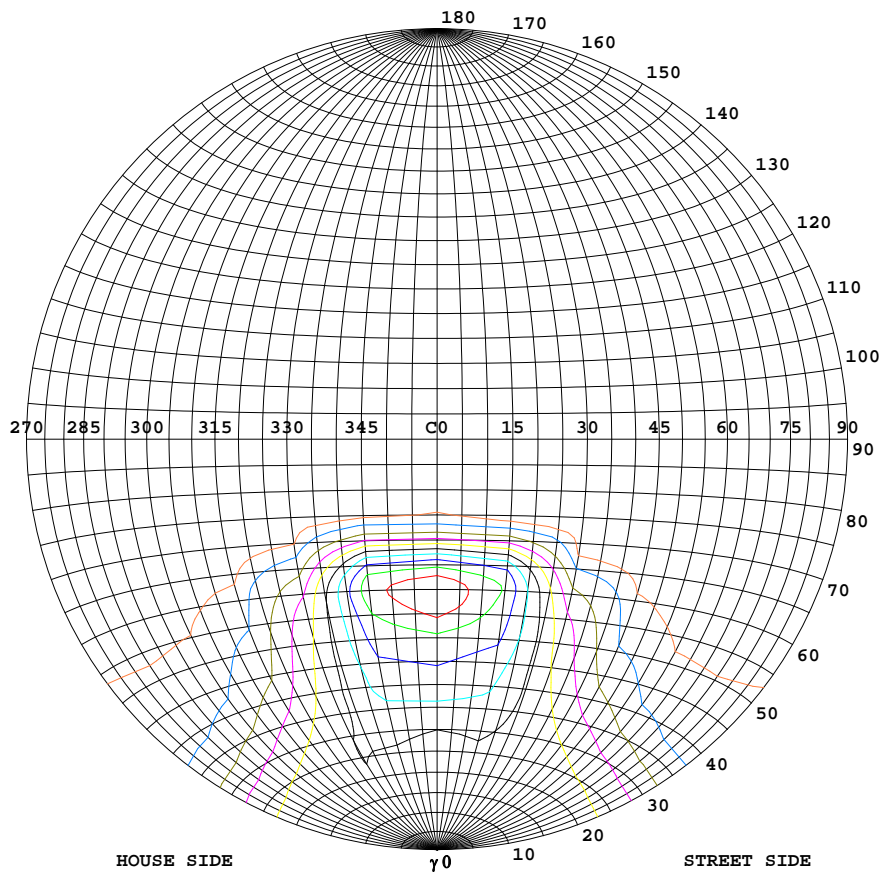


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

NAME: LED SOLAR STREET LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ZGSM	SUR.:21cm*16cm	Shielding Angle:



Classification:

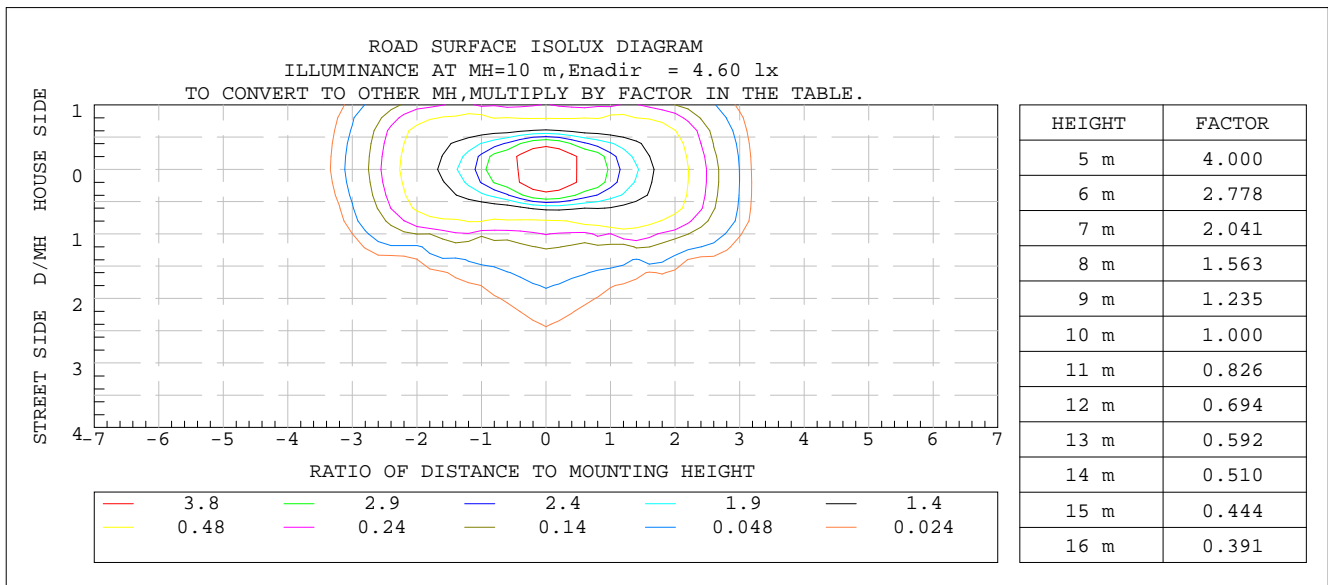
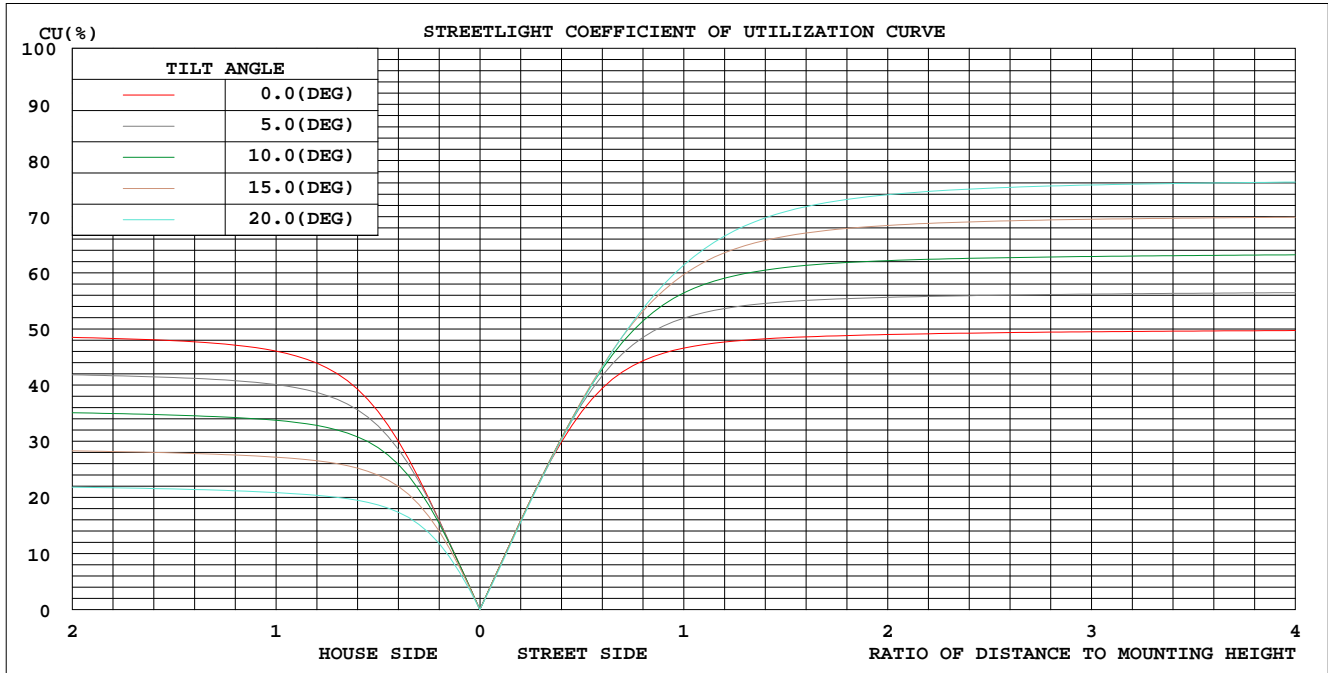
IES:Type I - Short  
 CIE:Narrow - Short  
 IES:Full cut-off  
 CIE:Full cut-off  
 Max.At80:23.92cd/klm  
 Max.At90:0cd/klm  
 Max.80-90:23.92cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1047
90%	943
80%	838
70%	733
60%	628
50%	524
40%	419
30%	314
20%	209
10%	105
5%	52

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.480m [K=1.0000]  
 Remarks:

# COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2018

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.480m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

NAME: LED SOLAR STREET LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ZGSM	SUR.:21cm*16cm	Shielding Angle:

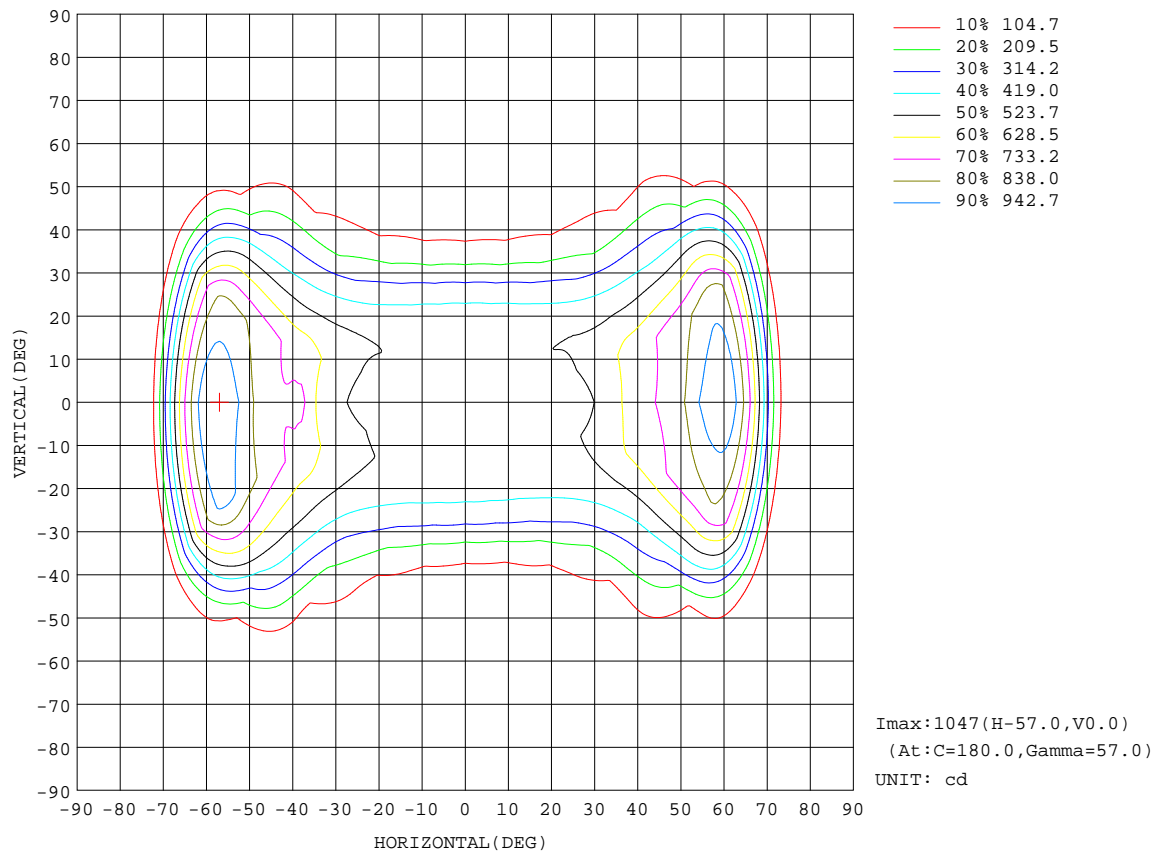
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	459.8	482.6	496.2	486.3	465.7	482.1	494.9	482.4	0- 10	44.99	44.99	3.1,3.1
20	480.5	492.2	459.2	504.0	488.9	510.6	465.8	511.5	10- 20	139.7	184.7	12.7,12.7
30	524.5	418.1	271.5	449.4	547.9	426.6	256.3	431.6	20- 30	212.7	397.3	27.4,27.4
40	716.5	256.6	81.94	321.7	757.7	267.6	77.82	273.8	30- 40	238.3	635.6	43.8,43.8
50	816.9	115.2	56.97	183.5	866.4	135.2	61.71	141.9	40- 50	254.2	889.9	61.4,61.4
60	1040	58.01	44.87	69.57	1014	62.53	45.71	66.38	50- 60	289.9	1180	81.4,81.4
70	341.1	24.98	41.60	24.94	278.3	26.76	41.84	27.64	60- 70	214.4	1394	96.1,96.1
80	31.40	15.19	34.41	14.53	18.81	16.37	34.68	15.62	70- 80	41.23	1435	99,99
90	0	0	0	0	0	0	0	0	80- 90	14.82	1450	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

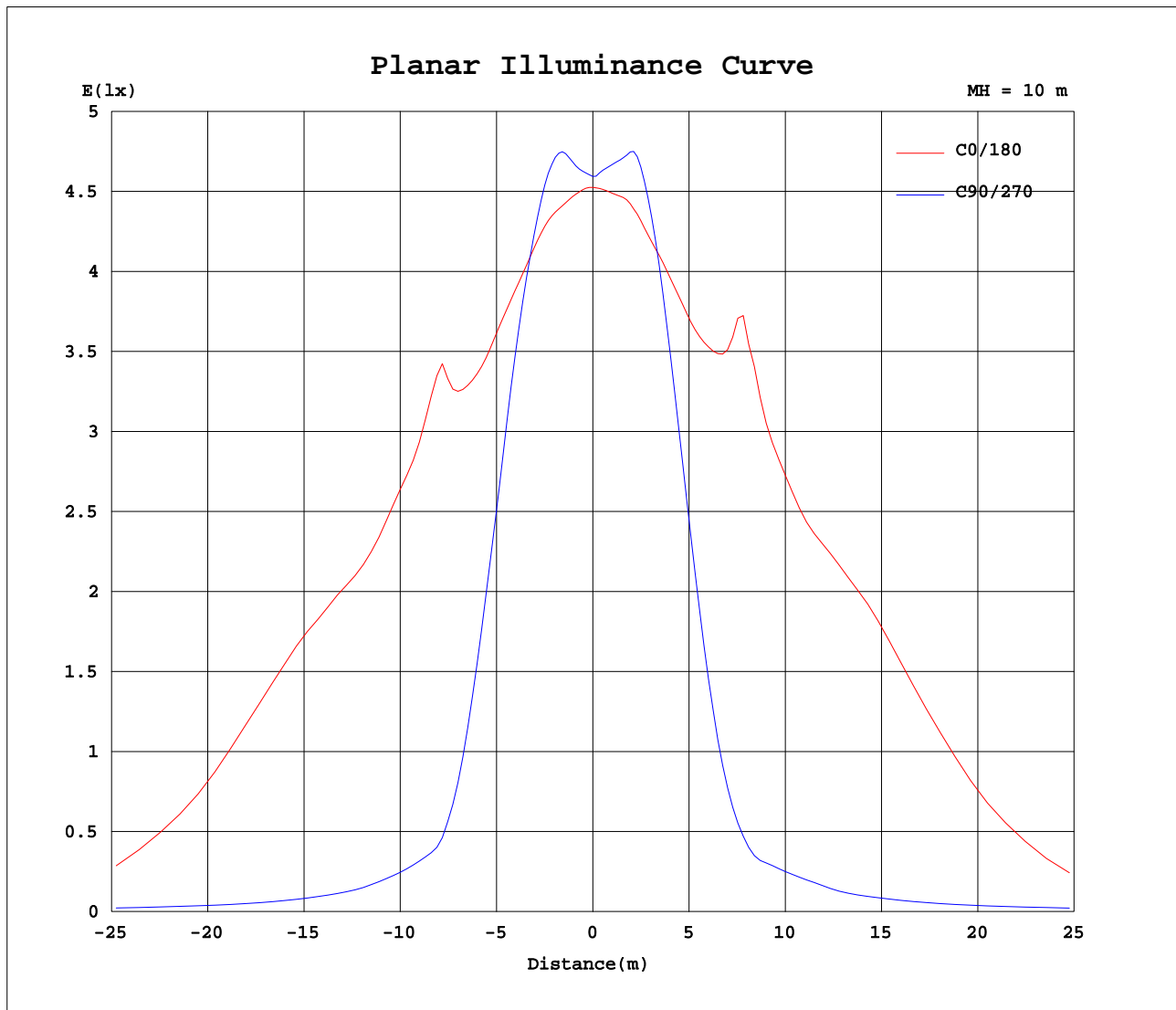
NAME: LED SOLAR STREET LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ZGSM	SUR.:21cm*16cm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



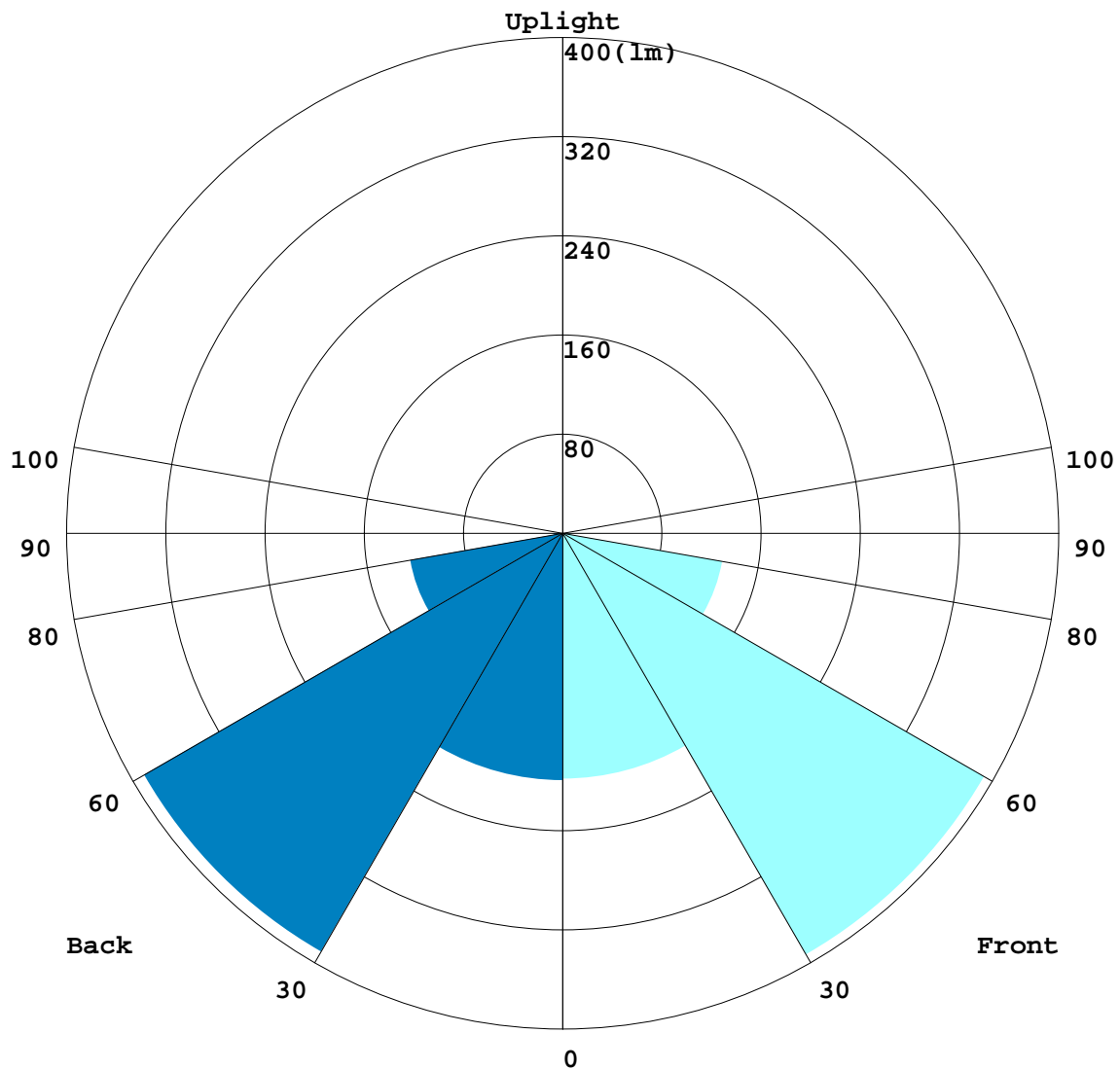
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.480m [K=1.0000]  
Remarks:

**LCS REPORT**

NAME: LED SOLAR STREET LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ZGSM	SUR.:21cm*16cm	Shielding Angle:

**LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH**



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

### BUG REPORT

NAME: LED SOLAR STREET LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ZGSM	SUR.:21cm*16cm	Shielding Angle:

#### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	198.06	13.7
FM - Front-Medium(30-60)	392.62	27.1
FH - Front-High(60-80)	130.69	9.0
FVH - Front-Very High(80-90)	7.3678	0.5
Total Forward Light	728.74	50.3

BL - Back-Low(0-30)	199.28	13.7
BM - Back-Medium(30-60)	389.77	26.9
BH - Back-High(60-80)	124.9	8.6
BVH - Back-Very High(80-90)	7.4537	0.5
Total Back Light	721.41	49.7

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B1-U0-G1
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	721.41	0	721.41
Street Side	728.74	0	728.74

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

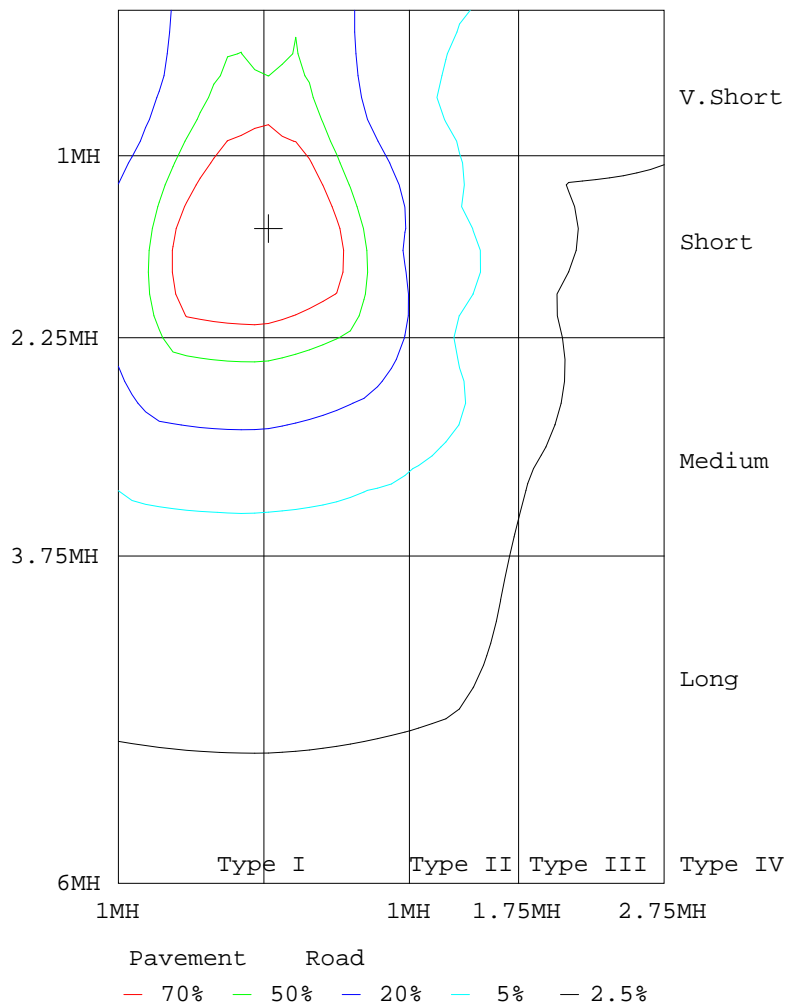
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:



ROAD ISOCANDELA REPORT

NAME: LED SOLAR STREET LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ZGSM	SUR.:21cm*16cm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

```