

Luminaire Photograph

LED STREET LIGHT SL470  
FEELIGHT TECH CO., LIMITED

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C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:IVY  
Test Date:2010-09-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65%  
Test Distance:5.360m [K=1.0000]  
Remarks: SL470-30W, 90LM/W LED

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

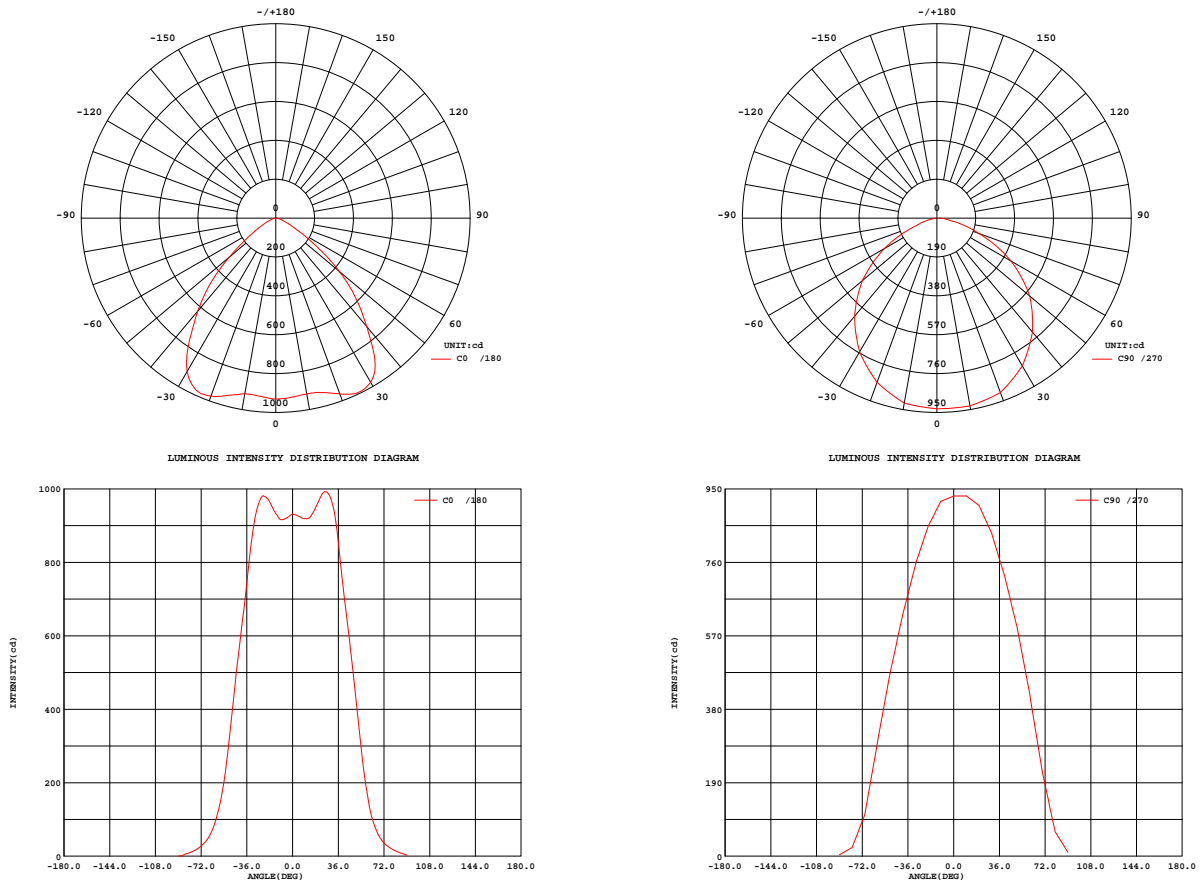


Fig. C0/C180

Fig. C90/C270

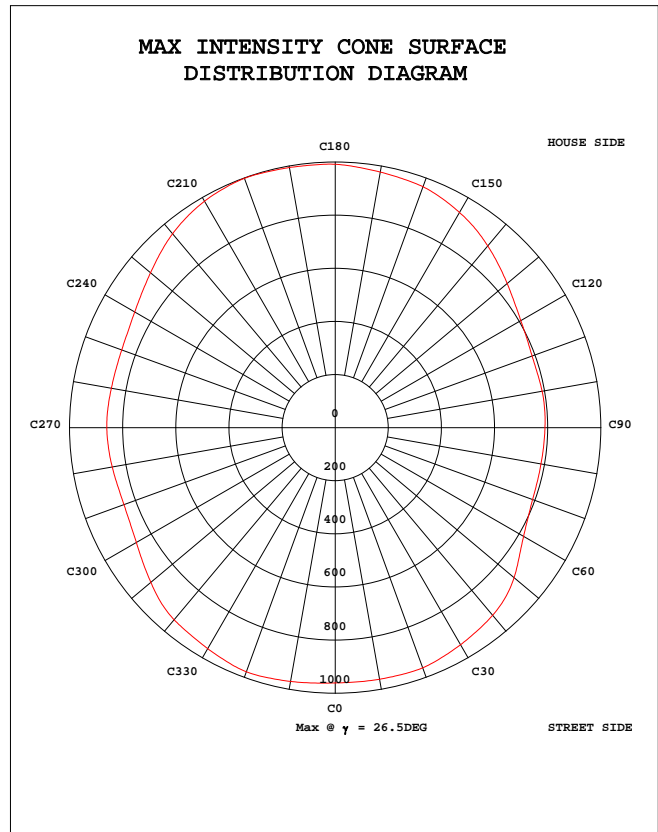
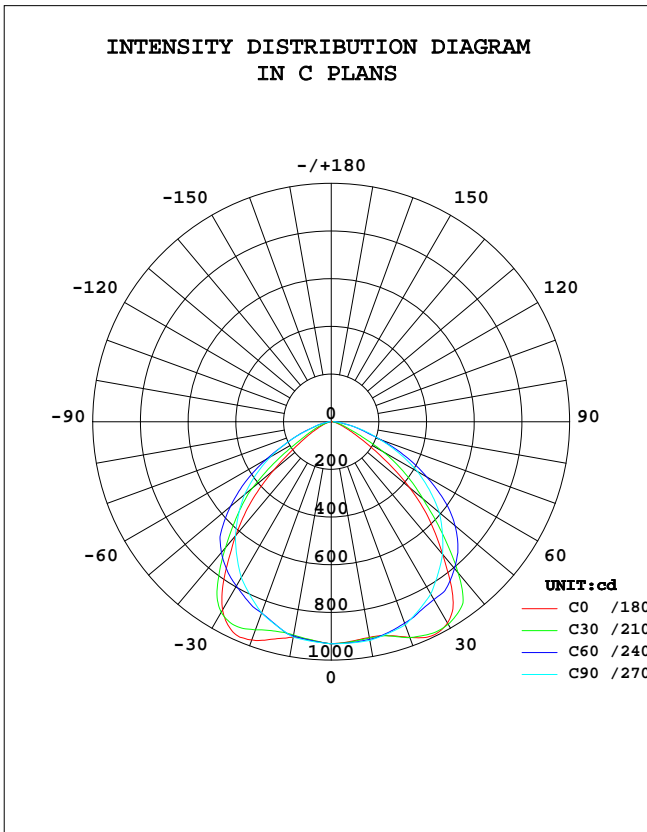
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**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:233.8V I:0.1590A P:35.50W PF:0.9520 Lamp Flux:2400x1 lm		
NAME: LED STREET LIGHT	TYPE:SL470	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	SL470-30W	Imax(cd)	999.3	$\eta$ street_up(%)	0.0
NOMINAL POWER(W)	36	EFFICIENCY(%)	97.9	$\eta$ street_down(%)	49.5
RATED VOLTAGE(V)	234	TOTAL FLUX(lm)	2350	$\eta$ house_up(%)	0.0
NOMINAL FLUX(lm)	2400.0	MAXIMUM @(C, $\gamma$ )	200,26.5	$\eta$ house_down(%)	48.4
LAMPS INSIDE	1	$\eta$ up(%)	0.0	76 FLASHAREA(m2)	0.0010
TEST VOLTAGE(V)	234.1	$\eta$ down(%)	97.9	SLI	14.747



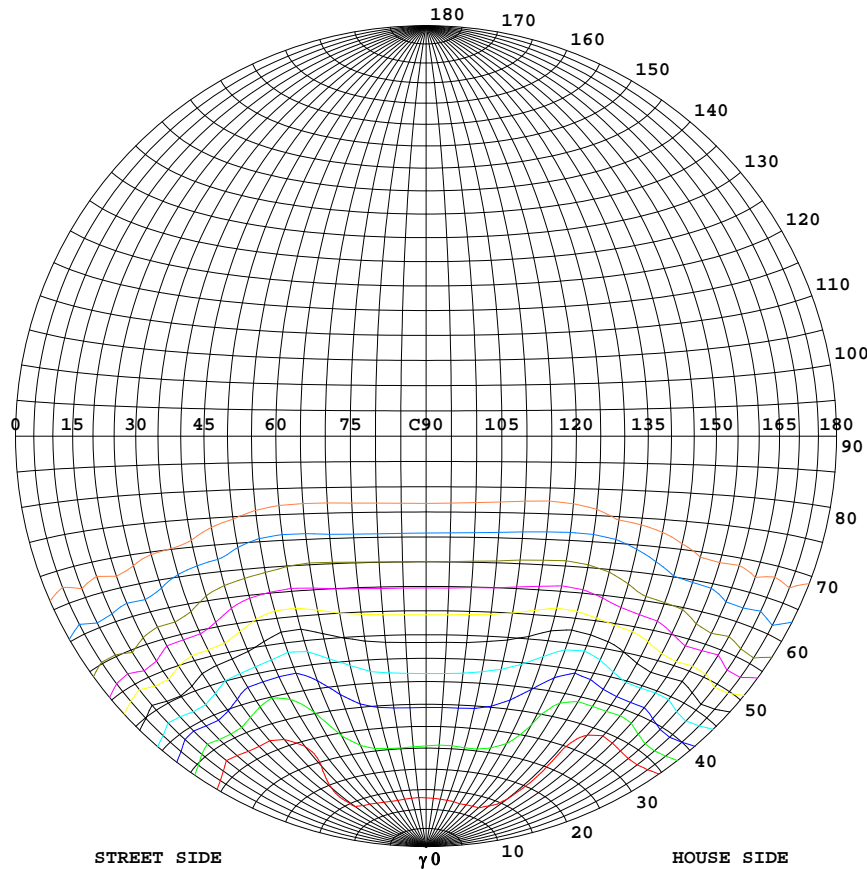
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Note: SLI:Specific Luminaire Index

**STREETLIGHT ISOCANDELA DIAGRAM**

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**Classification:**

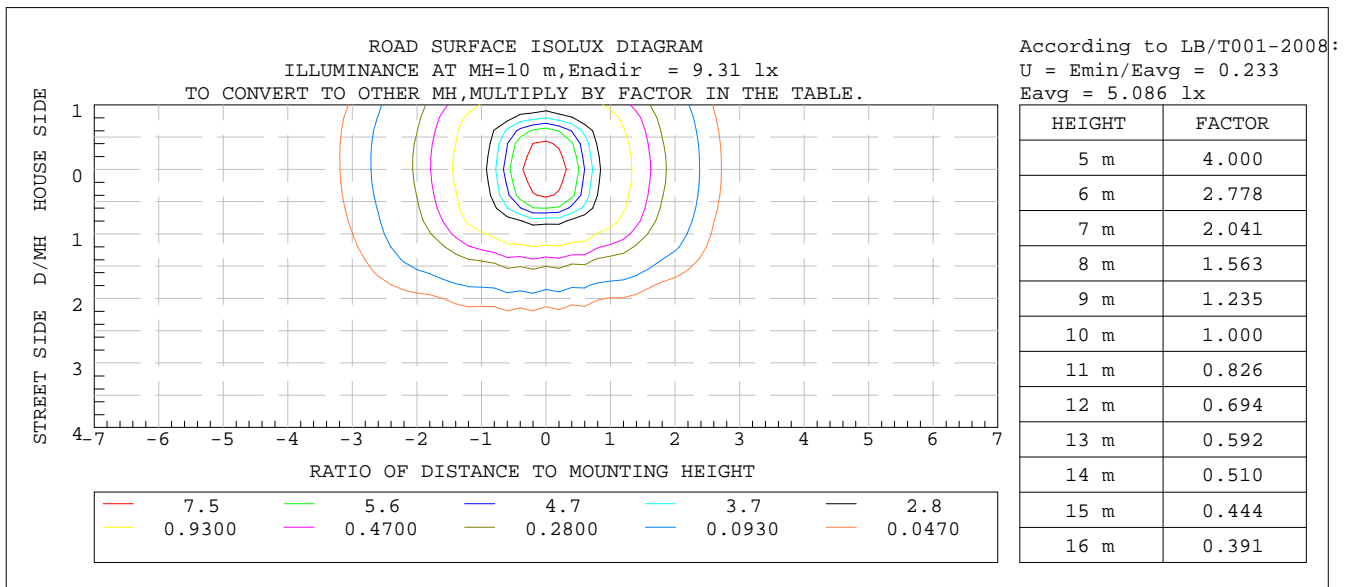
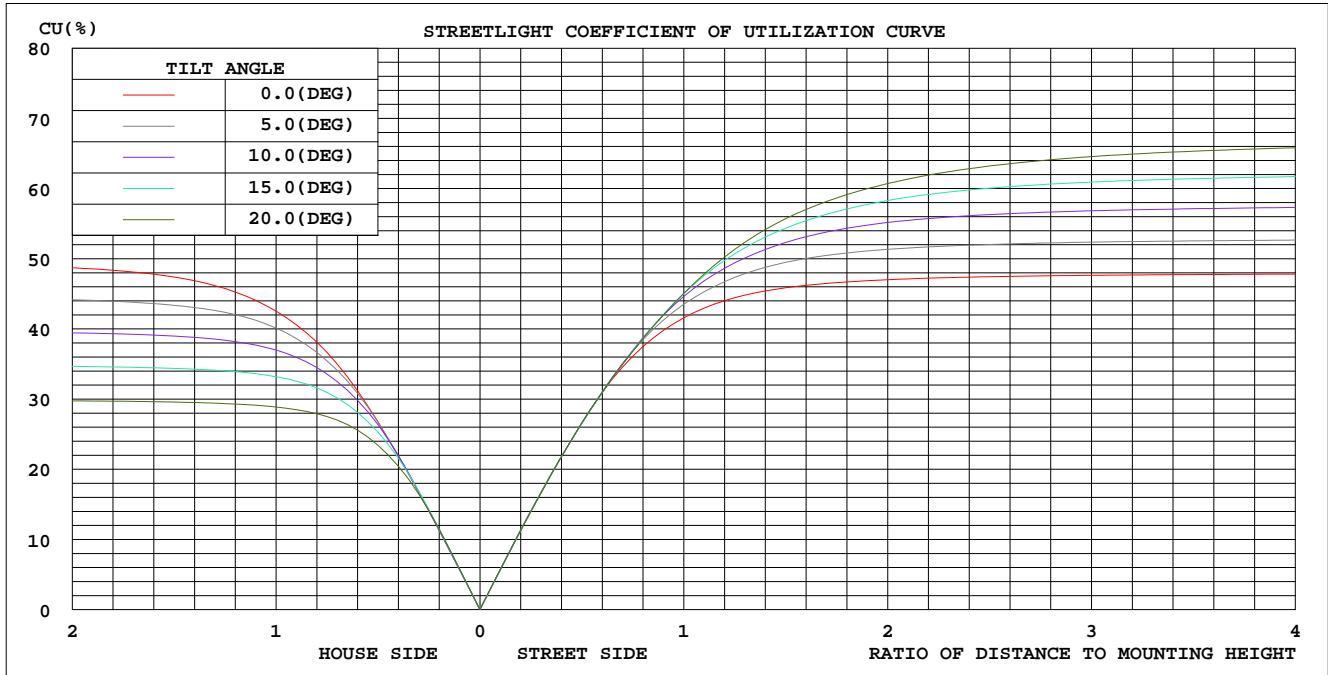
IES:Type II - Very Short  
 CIE:Narrow - Short  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:30.08cd/klm  
 Max.At90:4.834cd/klm  
 Max.80-90:30.08cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	999
90%	899
80%	799
70%	700
60%	600
50%	500
40%	400
30%	300
20%	200
10%	100
5%	50

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**COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM**



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ZONAL FLUX DIAGRAM

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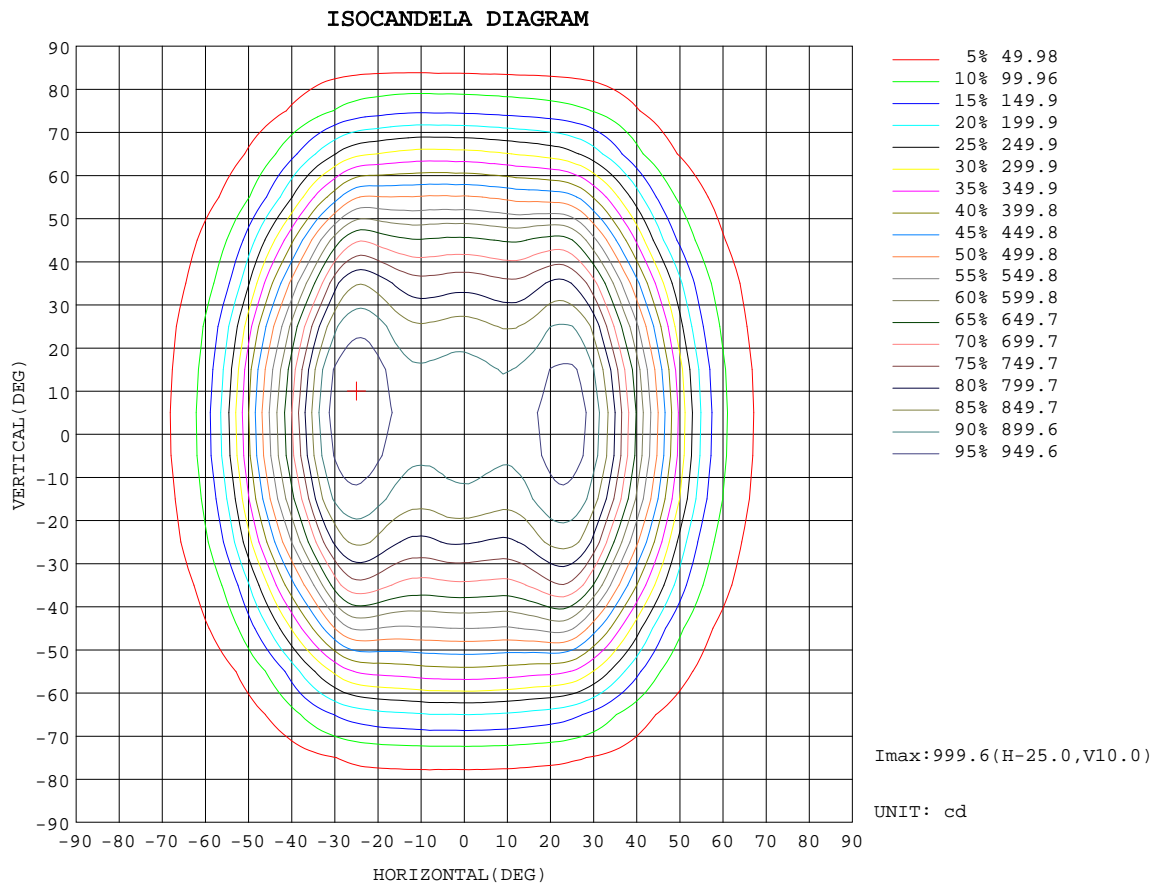
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%
5	920.0	920.4	924.6	921.6	925.0	928.5	931.5	925.7	0- 5	22.16	22.16	0.94
10	917.5	909.1	917.8	906.3	919.0	923.8	931.6	919.2	5- 10	65.86	88.02	3.75
15	943.7	893.5	885.9	894.5	929.4	922.2	919.4	912.4	10- 15	108.5	196.5	8.36
20	973.8	886.5	853.9	879.9	962.2	920.2	907.2	913.2	15- 20	150.3	346.8	14.76
25	974.2	901.9	804.4	870.3	991.9	927.1	870.9	923.6	20- 25	190.9	537.7	22.88
30	912.1	892.2	754.8	865.0	975.3	937.9	834.6	921.6	25- 30	226.4	764.1	32.52
35	776.3	855.7	690.1	846.1	888.3	929.1	780.4	894.8	30- 35	251.5	1016	43.22
40	624.1	793.4	625.4	780.8	727.8	878.0	726.2	841.9	35- 40	259.1	1275	54.24
45	475.7	641.7	550.1	667.8	583.1	778.2	659.2	710.9	40- 45	249.9	1525	64.88
50	313.6	483.6	474.7	543.7	427.1	658.1	592.1	557.1	45- 50	226.7	1751	74.53
55	180.6	363.1	384.3	389.9	263.5	494.1	504.8	443.0	50- 55	190.8	1942	82.65
60	103.4	255.2	294.0	251.7	145.1	344.4	417.4	333.6	55- 60	147.7	2090	88.93
65	57.84	143.6	200.2	159.6	79.21	233.2	316.3	200.9	60- 65	106.1	2196	93.45
70	34.07	72.61	106.4	90.02	44.45	142.2	215.1	111.2	65- 70	70.27	2266	96.44
75	19.92	39.15	64.30	37.93	26.94	67.21	139.0	66.98	70- 75	42.48	2309	98.25
80	10.96	19.05	22.18	18.09	16.38	35.74	62.86	34.68	75- 80	24.05	2333	99.27
85	4.958	7.079	12.82	7.710	8.650	17.93	36.35	14.63	80- 85	11.66	2344	99.77
90	0.6906	2.759	3.456	2.898	2.593	7.288	9.835	6.604	85- 90	5.490	2350	100.00
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

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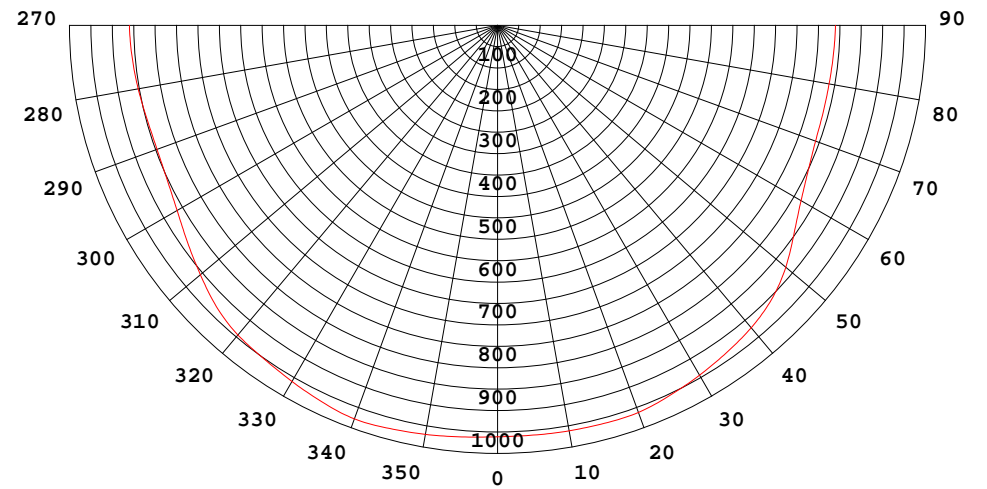
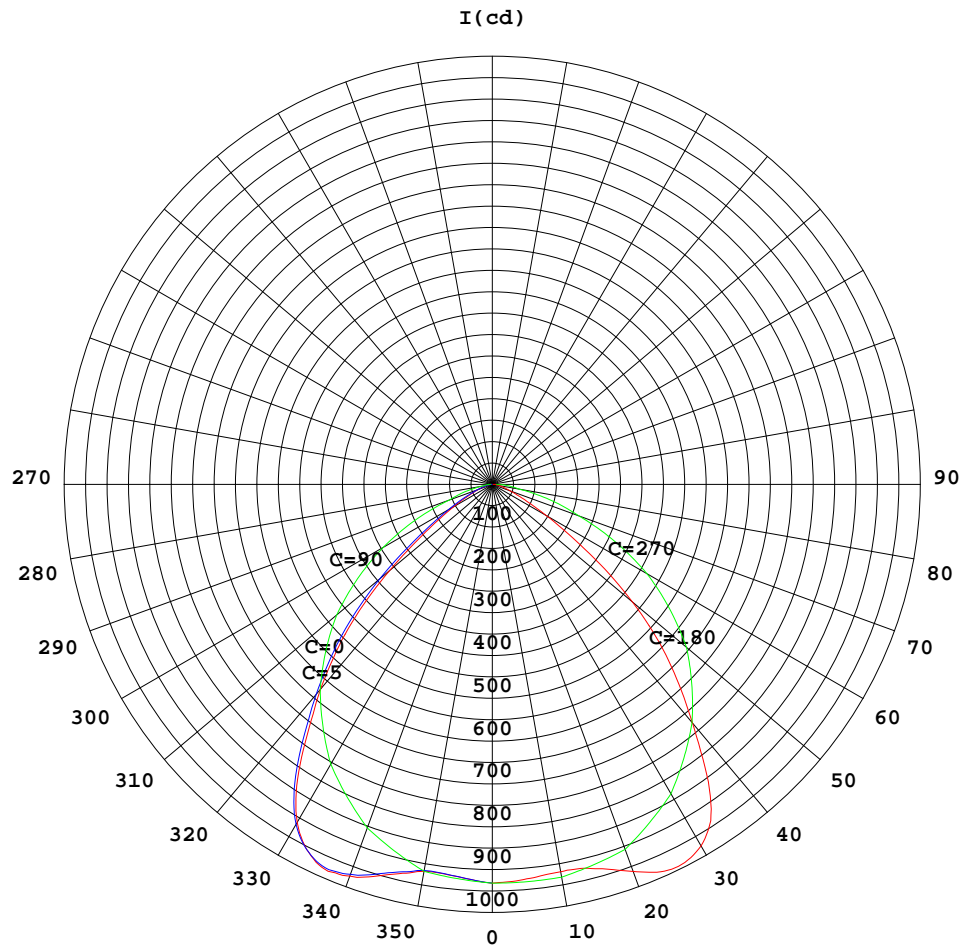






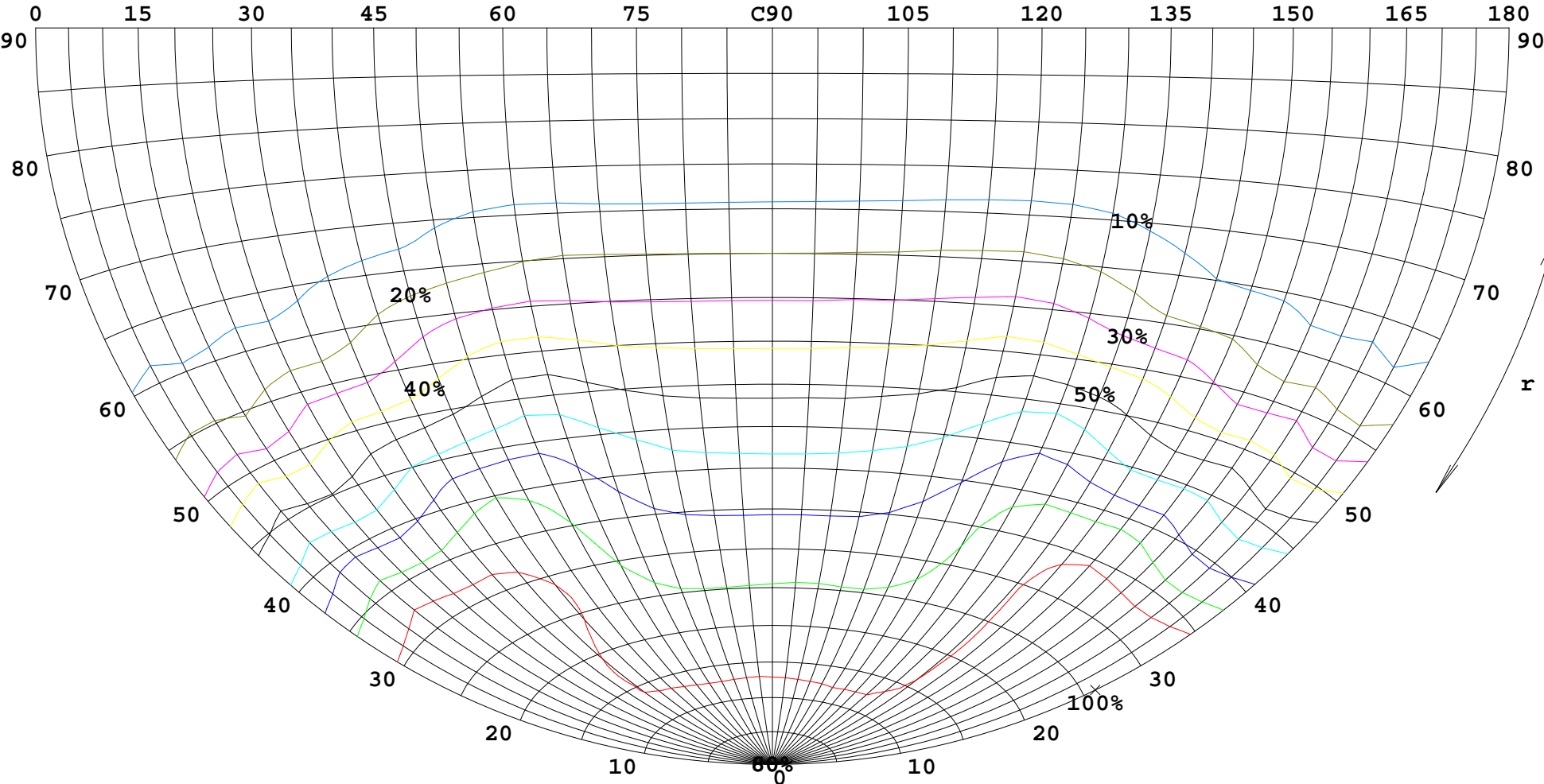
**FLUX DATA:**

<b>EFFICIENCY:</b>	<b>97.9 %</b>
<b>STREET DOWN:</b>	<b>1187 lm</b>
<b>STREET UP:</b>	<b>0 lm</b>
<b>HOUSE DOWN:</b>	<b>1163 lm</b>
<b>HOUSE UP:</b>	<b>0 lm</b>

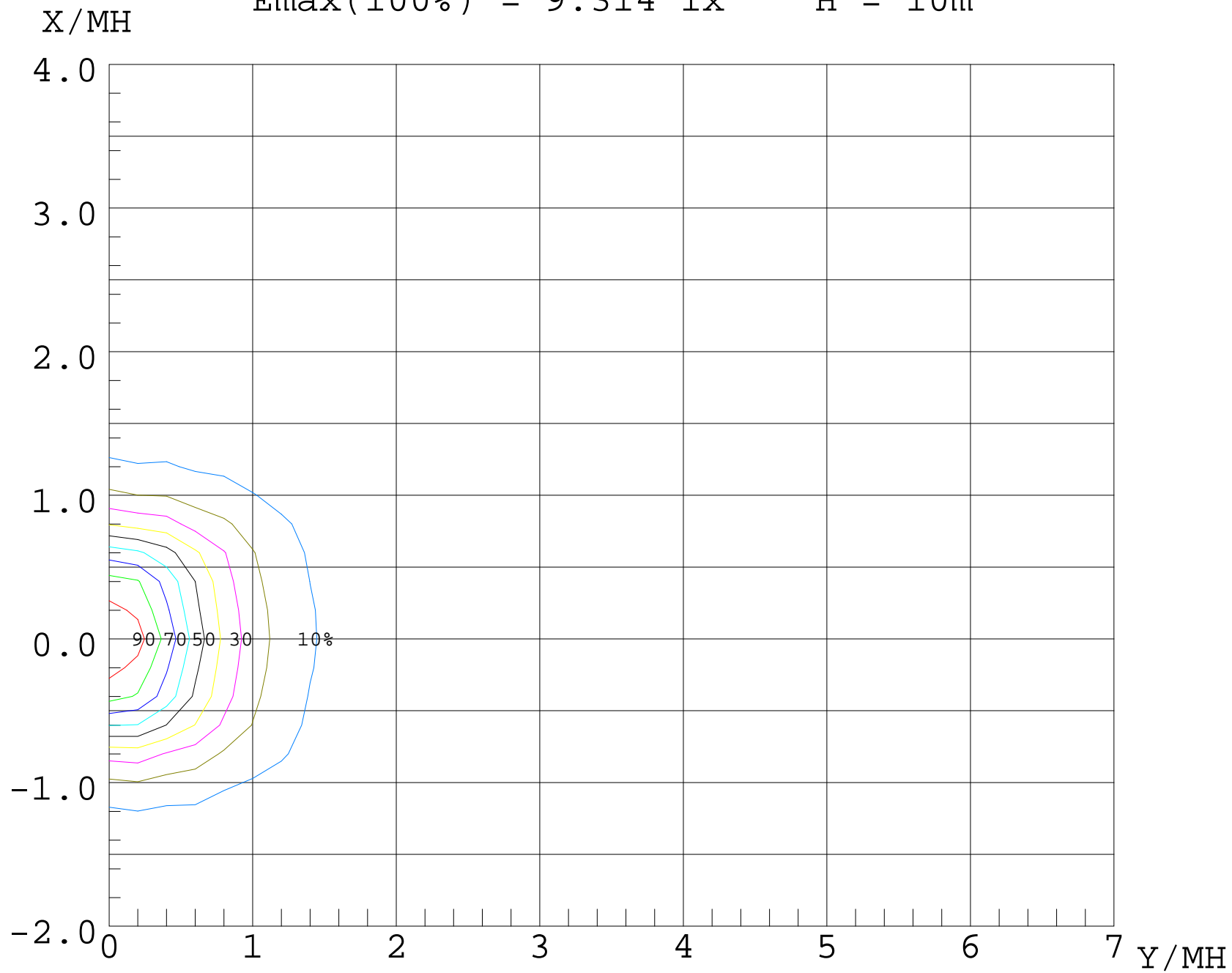


$I_{max}(100\%) = 999.3 \text{ cd}$

$\longleftrightarrow$  c  $\longleftrightarrow$



$E_{\max}(100\%) = 9.314 \text{ lx}$        $H = 10\text{m}$



UF (%)

80

70

60

50

40

30

20

10

0

-2

-1

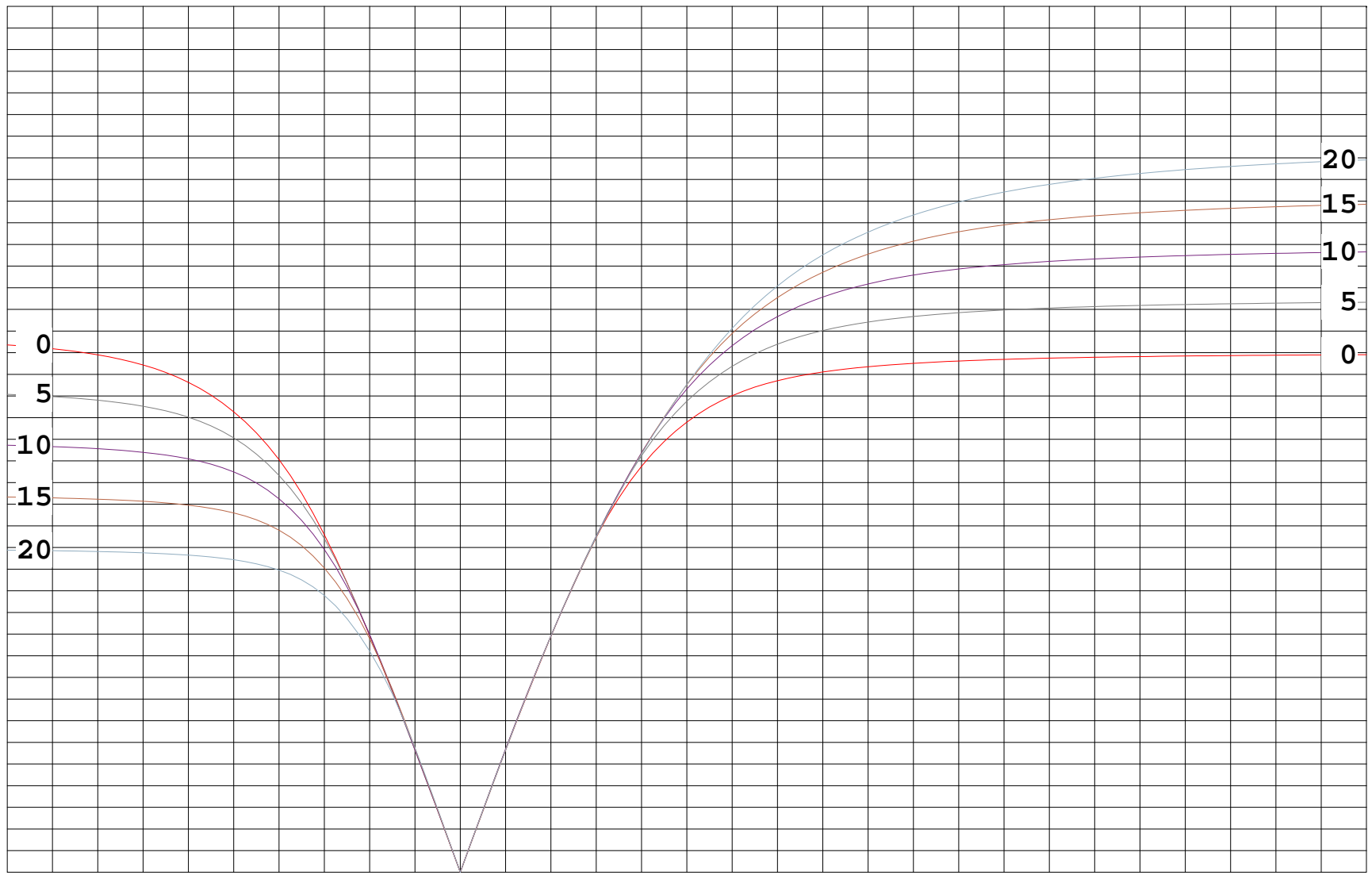
0

1

2

3

4 X/MH



20

15

10

5

0

0

5

10

15

20