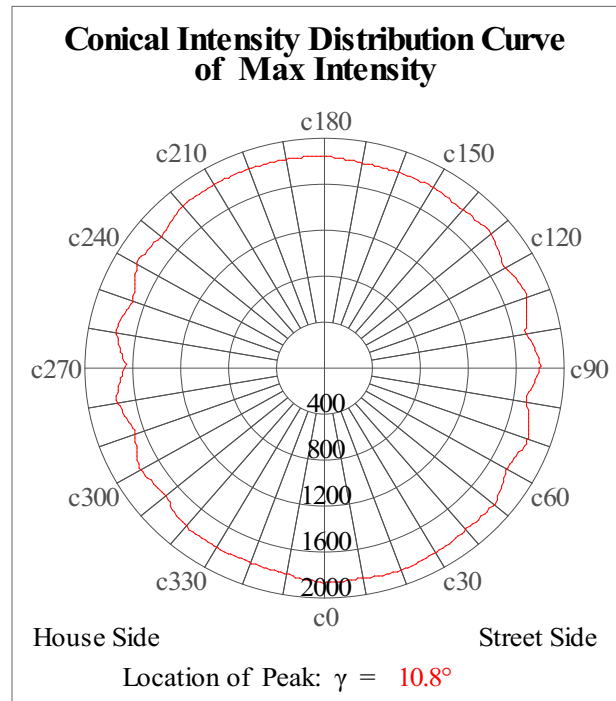
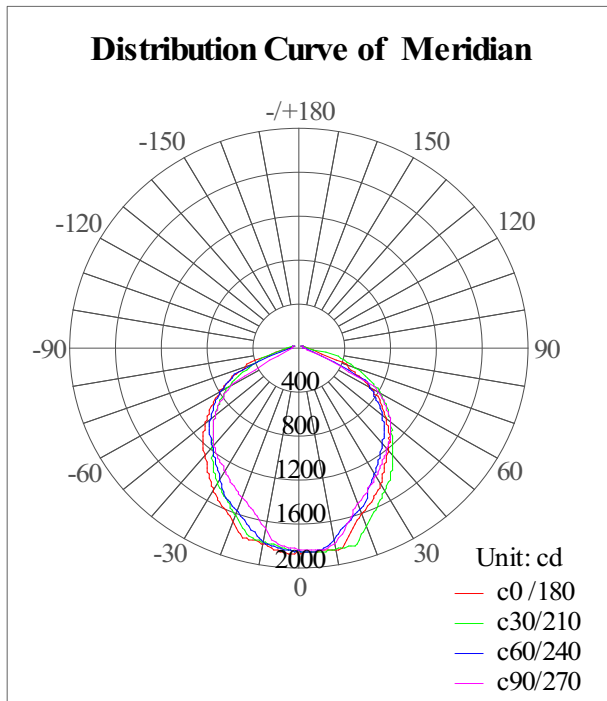


Photometric Data of Lamp

Lamp Description		
Lamp Name: TH-FS290-50W	Lamp Size:	Lamp Weight:
Lamp Type:	Rated Voltage:	Rated Power:
Light Type:	Light Number:	Rated Flux:
Light Standard:	Light Area:	Light Flux:

Measured Data of Lamp			
Voltage: 221.5 V	Current: 0.268 A	Power: 57.60 W	Power Factor: 0.968
Total Flux	4326.29 lm	Central Intensity	1918.95 cd
Lamp Efficiency	0.00%	Light Efficiency	75.11 lm/W
Peak Intensity	1925.54 cd	Location of Peak(c, γ)	(20.0°, 10.8°)
Half-Intensity Angle	102.6°	BeamAngle	140.4°
Upward Light Ratio	0	Downward Light Ratio	100%
Upward Street Side	0	Downward Street Side	2202.29 lm
Upward House Side	0	Downward House Side	2124.00 lm
Flash Area(76°)	0 cm ²	Discomfort Glare(SLI)	0



c Range: 0-360 Degree

c Interval: 10 Degree

Test Speed: Fast

Test Distance: 5.0 m

Note:

 γ Range: 0-90 Degree

 γ Interval: 0.9 Degree

Test Date: 2011-10-20

Test Time: 18:59:21

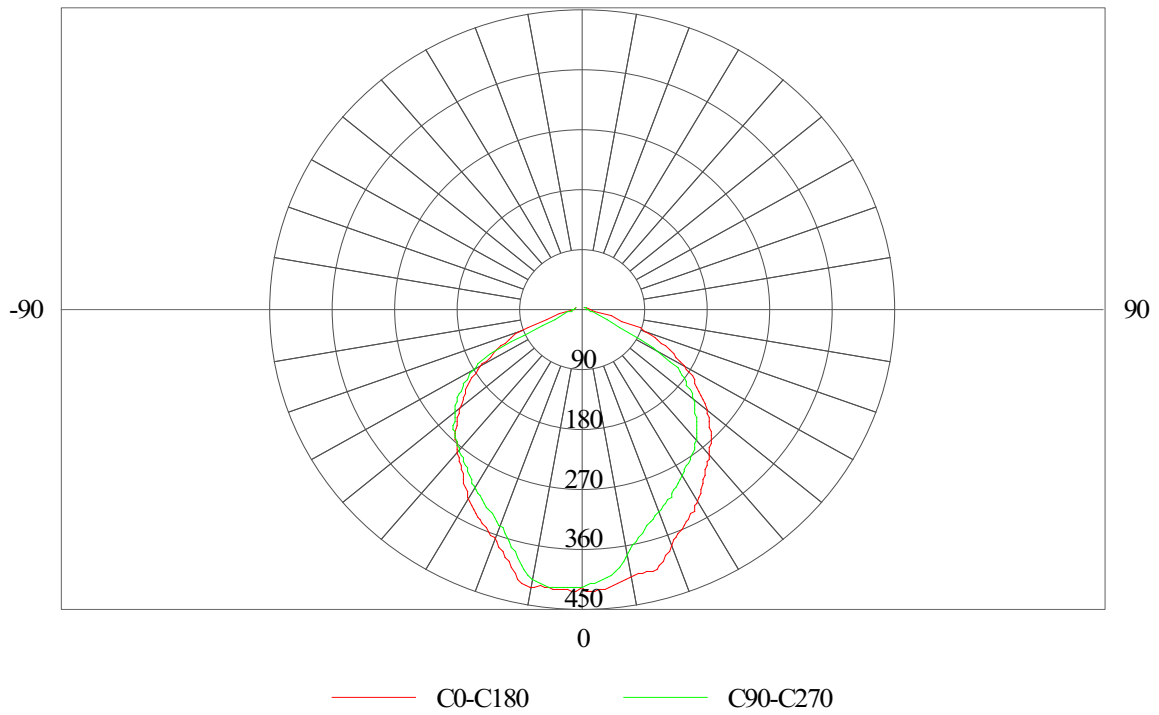
Temperature: 25 Celsius

Humidity: 65%

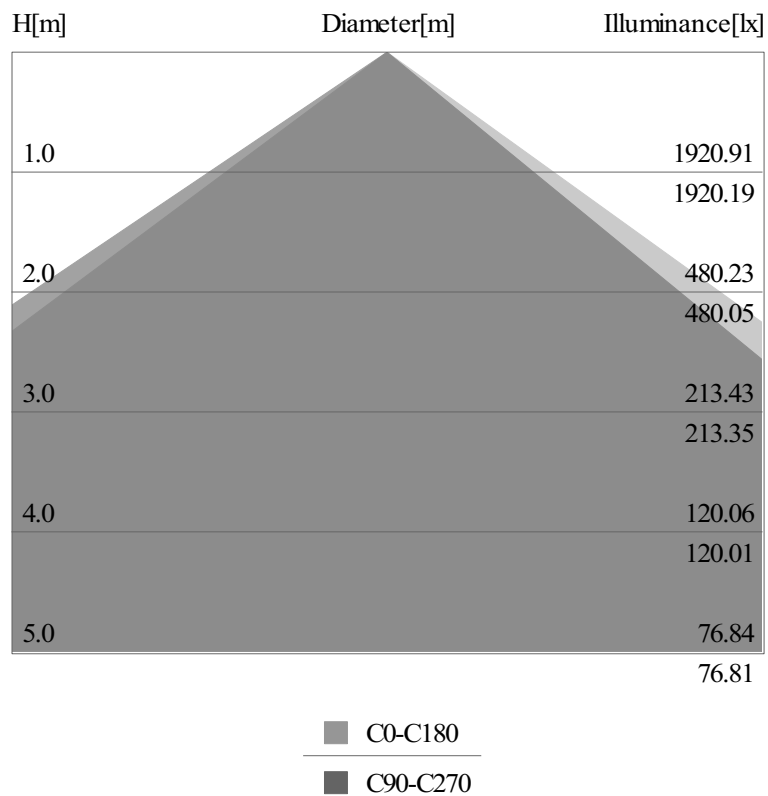
Test No.:

Tester:

cd/1000 lm Curve

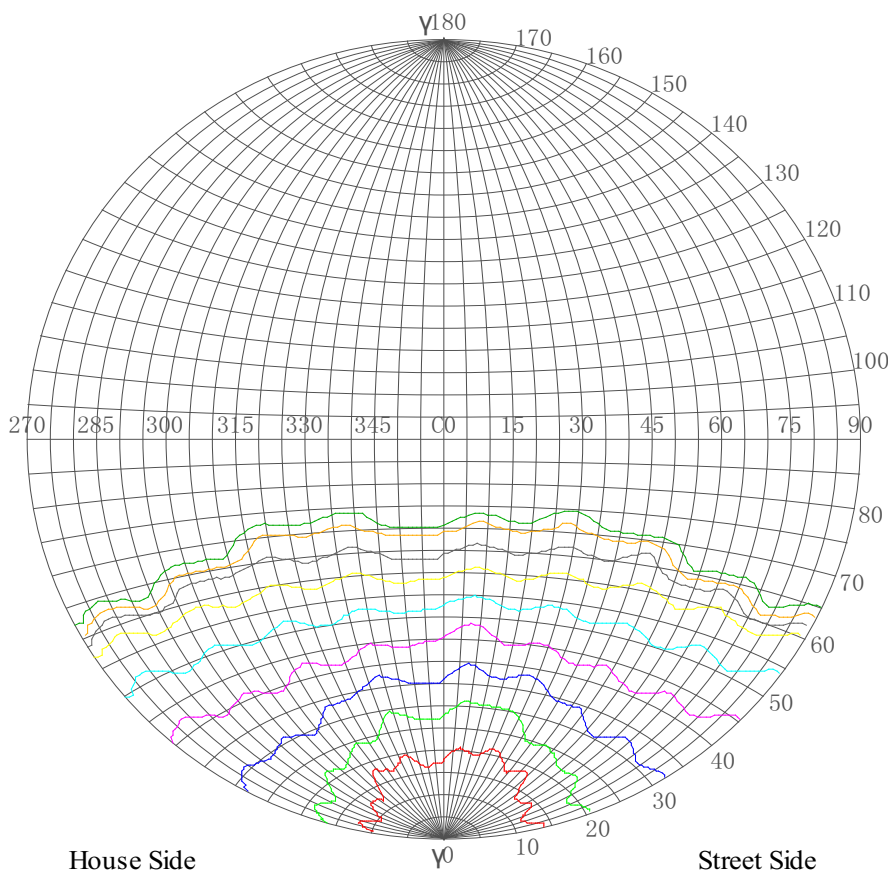


Illumination Cone Curve



Isocandela Curve of Road Lamp (Round Net Curve)

Lamp Description		
Lamp Name: TH-FS290-50W	Lamp Size:	Lamp Weight:
Lamp Type:	Rated Voltage:	Rated Power:
Light Type:	Light Number:	Rated Flux:
Light Standard:	Light Area:	Light Flux:



Road Lamp Type

CIE: cut-off
 CIE: short-narrow extension
 IES: cut-off
 IES: II-very short
 Max. At80: 7.64cd/klm
 Max. At90: 6.8752cd/klm

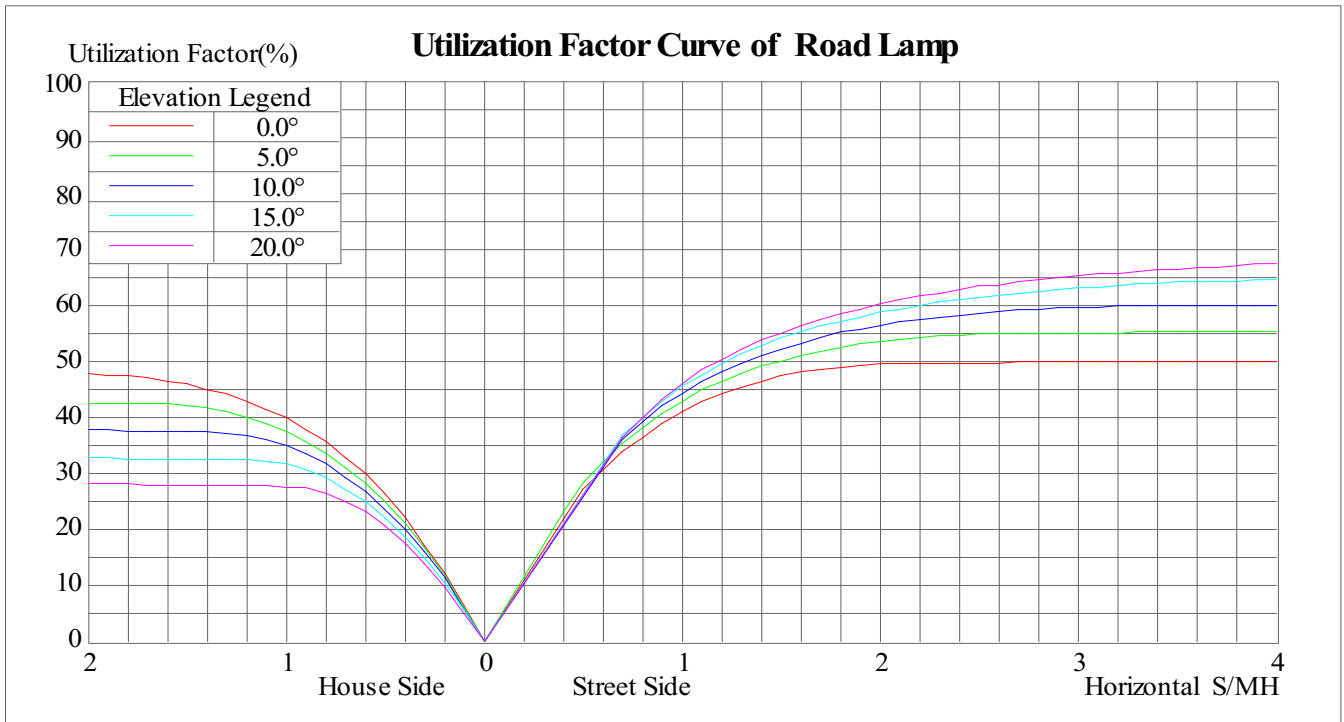
Isocandela Curve(Round Net)	
Intensity Unit	cd
Imax = 100%	1926
— 90%	1733
— 80%	1541
— 70%	1348
— 60%	1156
— 50%	963
— 40%	771
— 30%	578
— 20%	386
— 10%	193

c Range: 0-360 Degree
 c Interval: 10 Degree
 Test Speed: Fast
 Test Distance: 5.0 m
 Note:

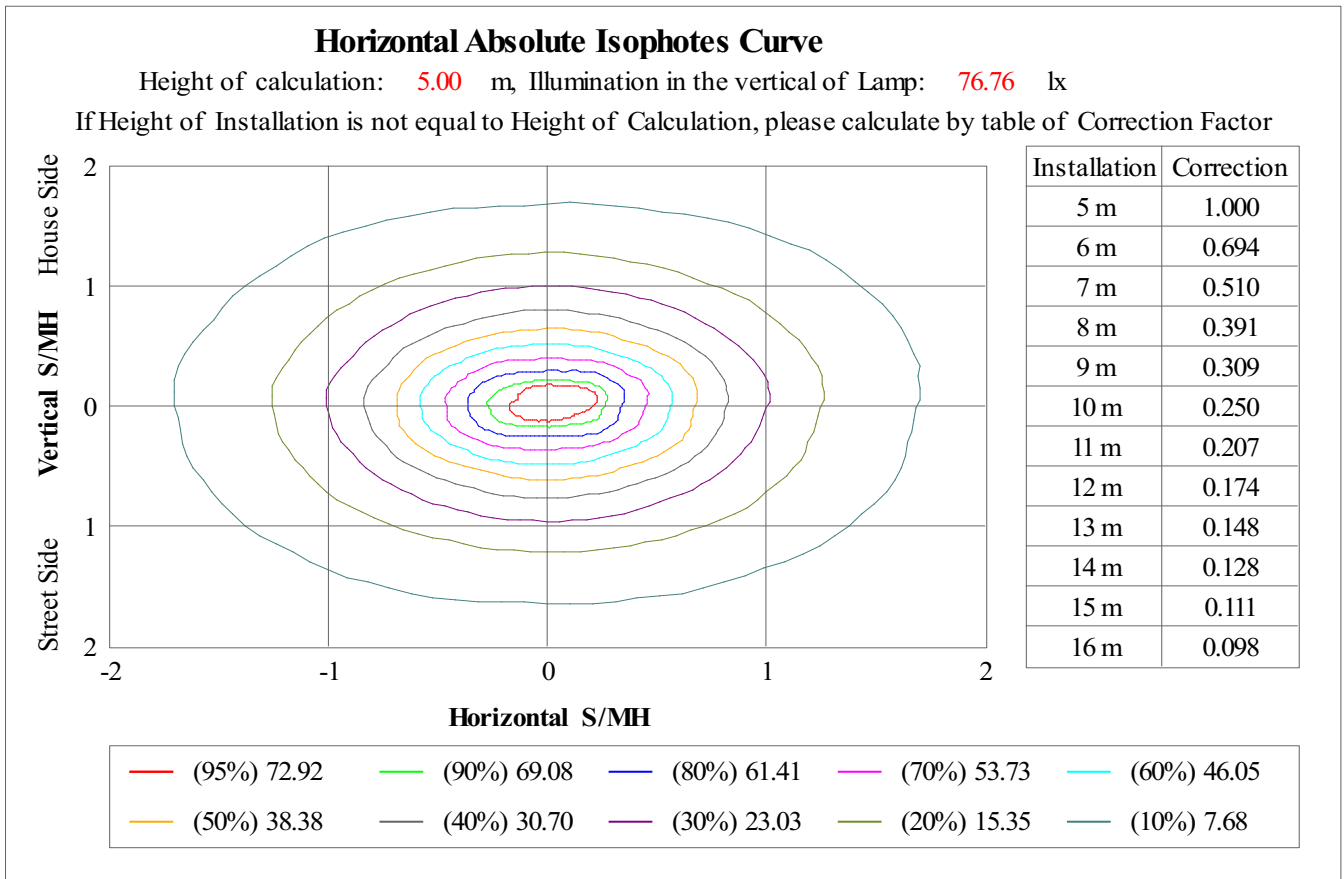
γ Range: 0-90 Degree
 γ Interval: 0.9 Degree
 Test Date: 2011-10-20
 Test Time: 18:59:21

Temperature: 25 Celsius
 Humidity: 65%
 Test No.:
 Tester:

Lamp Utilization Factor Curve

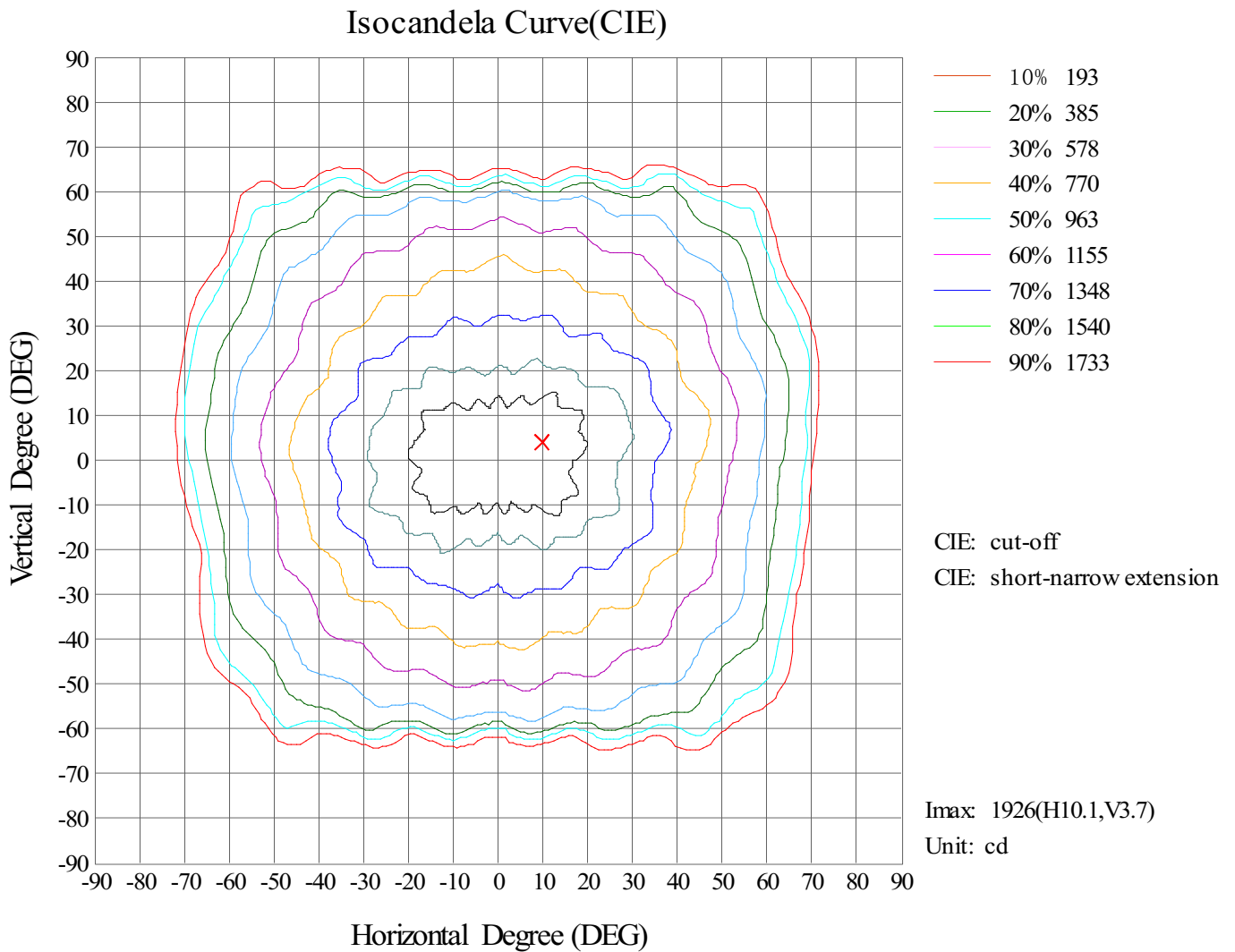


Horizontal Isophotes Curve



Isocandela Curve of Lamp

Lamp Description		
Lamp Name: TH-FS290-50W	Lamp Size:	Lamp Weight:
Lamp Type:	Rated Voltage:	Rated Power:
Light Type:	Light Number:	Rated Flux:
Light Standard:	Light Area:	Light Flux:



c Range: 0-360 Degree
 c Interval: 10 Degree
 Test Speed: Fast
 Test Distance: 5.0 m
 Note:

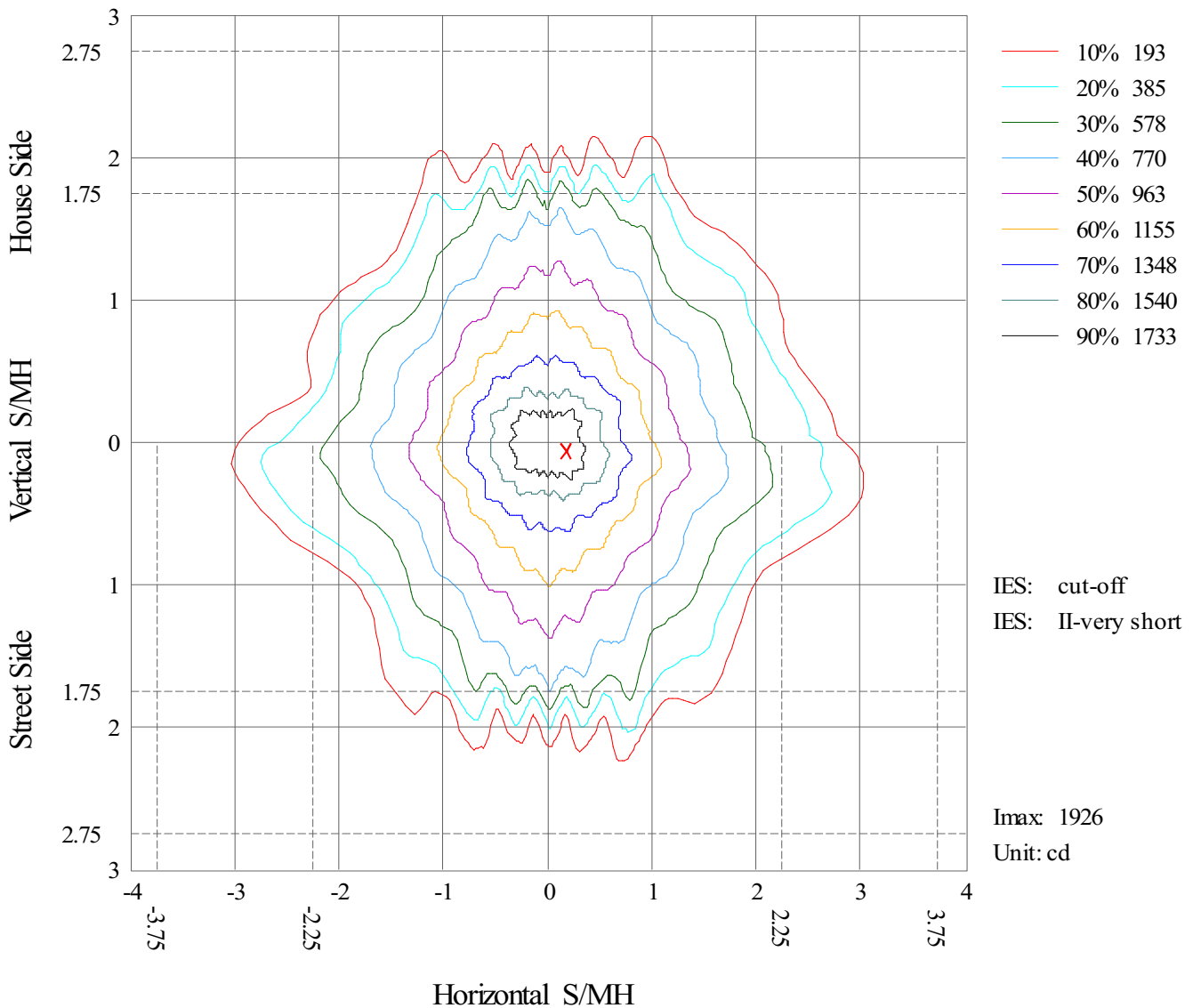
γ Range: 0-90 Degree
 γ Interval: 0.9 Degree
 Test Date: 2011-10-20
 Test Time: 18:59:21

Temperature: 25 Celsius
 Humidity: 65%
 Test No.:
 Tester:

Isocandela Curve of Lamp

Lamp Description		
Lamp Name: TH-FS290-50W	Lamp Size:	Lamp Weight:
Lamp Type:	Rated Voltage:	Rated Power:
Light Type:	Light Number:	Rated Flux:
Light Standard:	Light Area:	Light Flux:

Isocandela Curve(IES)



c Range: 0-360 Degree
 c Interval: 10 Degree
 Test Speed: Fast
 Test Distance: 5.0 m
 Note:

γ Range: 0-90 Degree
 γ Interval: 0.9 Degree
 Test Date: 2011-10-20
 Test Time: 18:59:21

Temperature: 25 Celsius
 Humidity: 65%
 Test No.:
 Tester:

Lamp Ring with Flux

Lamp Description		
Lamp Name: TH-FS290-50W	Lamp Size:	Lamp Weight:
Lamp Type:	Rated Voltage:	Rated Power:
Light Type:	Light Number:	Rated Flux:
Light Standard:	Light Area:	Light Flux:

γ	C0	C90	C180	C270	$\gamma(^{\circ})$	$\Phi(\text{Ring})$	$\Phi(\text{Total})$	%
3.6	1915	1898	1915	1860	0.0-3.6	23.42	23.42	0.54
7.2	1903	1895	1883	1801	3.6-7.2	69.61	93.03	2.15
10.8	1920	1842	1846	1672	7.2-10.8	113.6	206.7	4.78
14.4	1822	1709	1842	1575	10.8-14.4	153.8	360.5	8.33
18.0	1702	1603	1767	1508	14.4-18.0	188.5	549.0	12.69
21.6	1626	1529	1670	1446	18.0-21.6	276.3	825.3	19.08
25.2	1566	1462	1606	1391	21.6-25.2	249.5	1075	24.85
28.8	1504	1407	1537	1331	25.2-28.8	271.0	1346	31.11
32.4	1408	1348	1455	1275	28.8-32.4	287.3	1633	37.75
36.0	1321	1288	1363	1229	32.4-36.0	298.7	1932	44.65
39.6	1252	1239	1296	1171	36.0-39.6	305.9	2238	51.72
43.2	1183	1191	1229	1097	39.6-43.2	309.4	2547	58.88
46.8	1098	1125	1135	1014	43.2-46.8	308.2	2855	66.00
50.4	993.4	1052	1033	928.0	46.8-50.4	301.5	3157	72.97
54.0	901.9	965.6	929.5	816.8	50.4-54.0	288.8	3446	79.64
57.6	786.2	852.0	825.2	683.0	54.0-57.6	270.1	3716	85.89
61.2	641.1	664.7	706.4	193.8	57.6-61.2	231.5	3947	91.24
64.8	520.3	192.6	579.1	53.52	61.2-64.8	165.9	4113	95.07
68.4	372.2	57.22	439.8	41.27	64.8-68.4	105.2	4218	97.50
72.0	40.55	44.15	87.38	33.86	68.4-72.0	50.13	4268	98.66
75.6	35.71	36.13	30.46	29.74	72.0-75.6	13.60	4282	98.98
79.2	32.83	31.80	27.48	26.14	75.6-79.2	12.07	4294	99.26
82.8	30.88	28.71	25.94	24.08	79.2-82.8	11.08	4305	99.51
86.4	29.95	27.89	25.32	24.39	82.8-86.4	10.59	4316	99.76
90.0	29.74	27.89	25.32	24.39	86.4-90.0	10.55	4326	100.00
Unit: $^{\circ}$	Intensity Unit: cd				Unit: lm			

