AFX

Client:
LumCAT: AUGW0736LAJMVBK
Luminaire: LED灯具
Report No:
Ballast type:

Test No:	Voltage(V): 119.990
LampCAT:	Current(A): 0.354
Lamp flux(lm): 4042.9	Power (W): 41.790
Number of Lamps: 1	PF: 0.984
Length(mm): 150	Width(mm): 40
Phm Type: C	Height(mm): 880

Photometric Results

Lumens(lm): 4042.90, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 96.74
Central intensity(cd): 32.335, Maximum intensity(cd): 1139.817
Angle of maximum intensity: C=90.0 γ=90.0
Beam Angle(50%Imax): [C0/180]Total=294.6
[C90/270]Total=184.3
Field angle(10%Imax): [C0/180]Total=342.6
[C90/270]Total=183.7
Maximum s/h(1/2): C0_180=4.01 C90_270=8.46
Maximum s/h(1/4): C0_180=3.78 C90_270=7.61
Up flux rate of lamp(%): 50.87%
Down flux rate of lamp(%): 49.13%
Up flux rate of LUM(%): 50.87%
Down flux rate of LUM(%): 49.13%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 18.203%

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Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	30.239	0.000	0	0.00%	0.00%
5.0	33.009	0.756	0.756	0.02%	0.02%
10.0	48.540	2.917	3.673	0.07%	0.09%
15.0	76.123	7.395	11.068	0.18%	0.27%
20.0	110.628	15.391	26.459	0.38%	0.65%
25.0	144.086	26.715	53.174	0.66%	1.32%
30.0	178.892	40.873	94.047	1.01%	2.33%
35.0	212.836	57.685	151.732	1.43%	3.75%
40.0	245.097	76.403	228.135	1.89%	5.64%
45.0	275.149	96.328	324.462	2.38%	8.03%
50.0	303.255	116.875	441.337	2.89%	10.92%
55.0	328.592	137.385	578.722	3.40%	14.31%
60.0	351.459	157.192	735.913	3.89%	18.20%
65.0	371.144	175.666	911.579	4.35%	22.55%
70.0	388.397	192.321	1103.9	4.76%	27.30%
75.0	402.394	206.700	1310.6	5.11%	32.42%
80.0	413.135	218.213	1528.813	5.40%	37.81%
85.0	420.321	226.470	1755.283	5.60%	43.42%
90.0	423.913	231.158	1986.441	5.72%	49.13%
95.0	423.614	232.060	2218.5	5.74%	54.87%
100.0	419.572	229.114	2447.614	5.67%	60.54%
105.0	411.900	222.479	2670.093	5.50%	66.04%
110.0	400.373	212.315	2882.408	5.25%	71.30%
115.0	384.842	198.821	3081.23	4.92%	76.21%
120.0	366.279	182.599	3263.828	4.52%	80.73%
125.0	344.123	164.207	3428.036	4.06%	84.79%
130.0	319.048	144.196	3572.231	3.57%	88.36%
135.0	291.017	123.273	3695.504	3.05%	91.41%
140.0	260.890	102.190	3797.694	2.53%	93.93%
145.0	228.480	81.648	3879.342	2.02%	95.95%
150.0	193.824	62.187	3941.529	1.54%	97.49%
155.0	157.859	44.506	3986.035	1.10%	98.59%
160.0	121.070	29.254	4015.289	0.72%	99.32%
165.0	84.057	16.905	4032.195	0.42%	99.74%
170.0	49.139	7.901	4040.096	0.20%	99.93%
175.0	21.033	2.510	4042.606	0.06%	99.99%
180.0	3.930	0.298	4042.904	0.01%	100.00%

Zonal flux distribution table

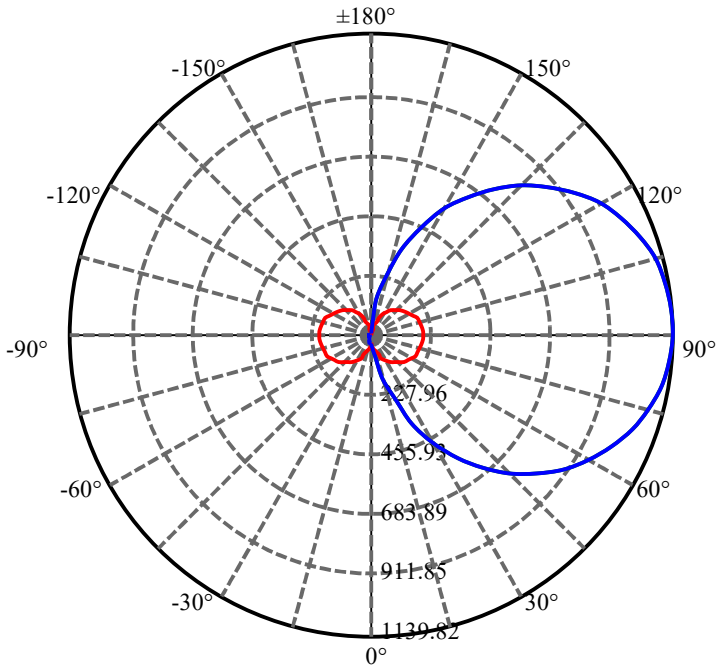
ZONAL LUMEN SUMMARY

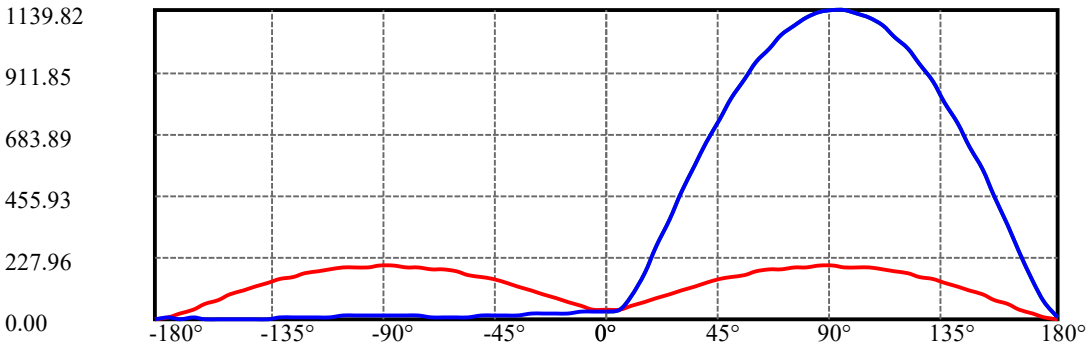
Zone	Lumens	%Lamp	%Fixt
0-30	94.05	2.33%	2.33%
0-40	228.13	5.64%	5.64%
0-60	735.91	18.20%	18.20%
0-90	1986.44	49.13%	49.13%
0-120	3263.83	80.73%	80.73%
0-180	4042.90	100.00%	100.00%
60-90	1250.53	30.93%	30.93%
90-120	1277.39	31.60%	31.60%
90-130	1585.79	39.22%	39.22%
90-150	1955.09	48.36%	48.36%
90-180	2056.17	50.86%	50.86%
0-119.19	3234.32	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	3.67
10-20	22.79
20-30	67.59
30-40	134.09
40-50	213.20
50-60	294.58
60-70	367.99
70-80	424.91
80-90	457.63
90-100	461.17
100-110	434.79
110-120	381.42
120-130	308.40
130-140	225.46
140-150	143.83
150-160	73.76
160-170	24.81
170-180	2.51

Light Distribution Curve [Unit:cd]





C90(Max):

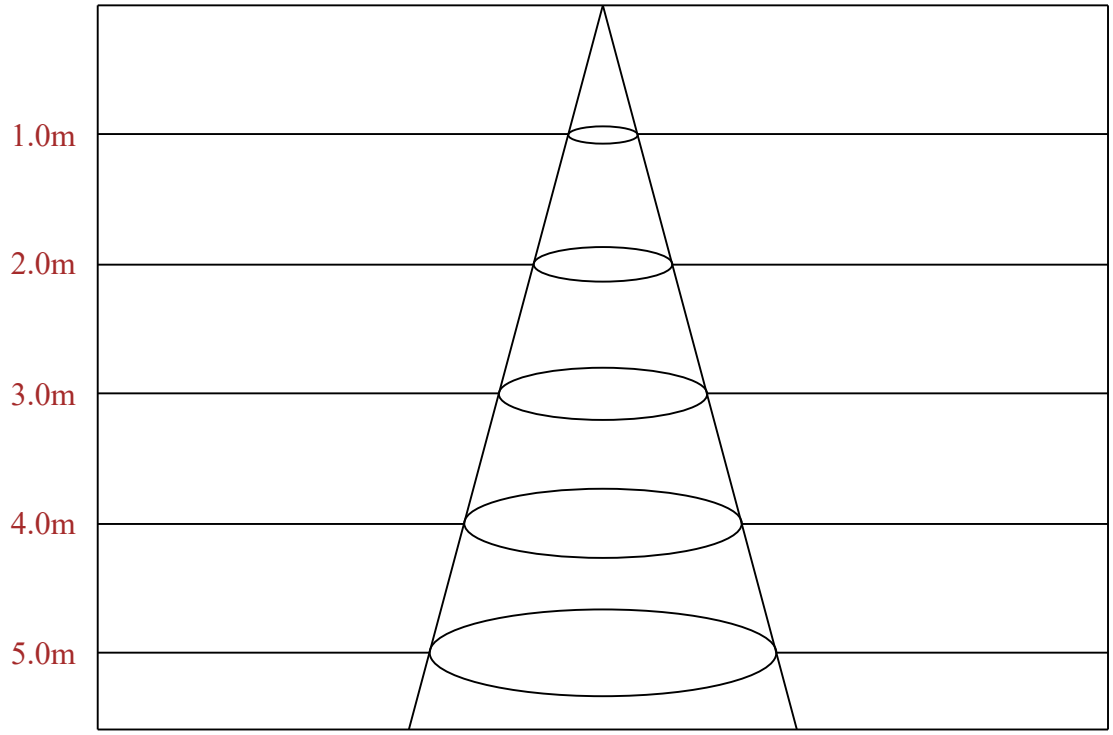
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:171.3 Right:171.3
:C90/270Left:11.8 Right:171.9

Beam Angle(50%Imax):C0/180Left:147.3 Right:147.3
:C90/270Left:35.3 Right:149.0

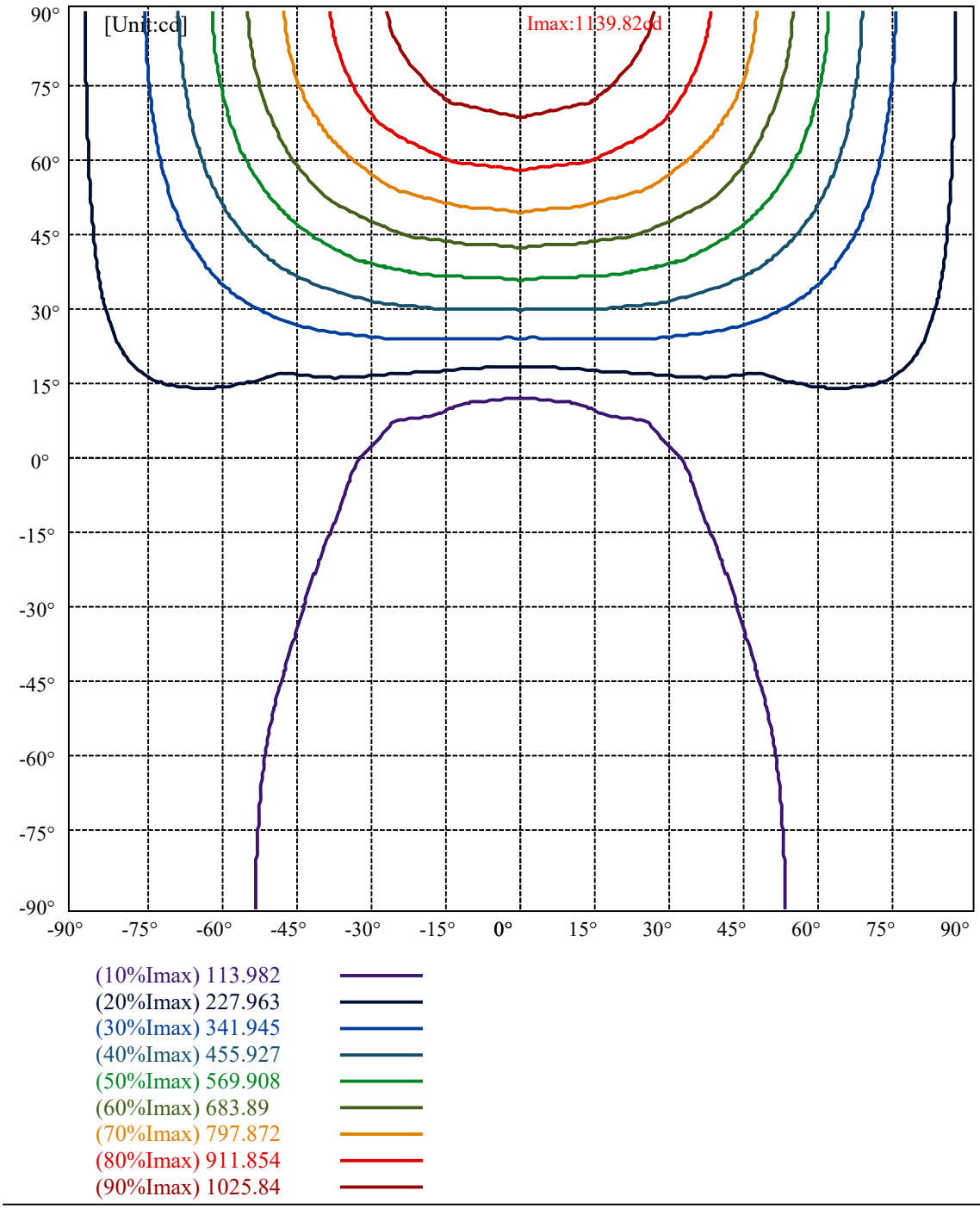
Lux distance Curve



Max , Ave

Beam angle of C90 plane 218.78

ISO-Intensity(V-H)



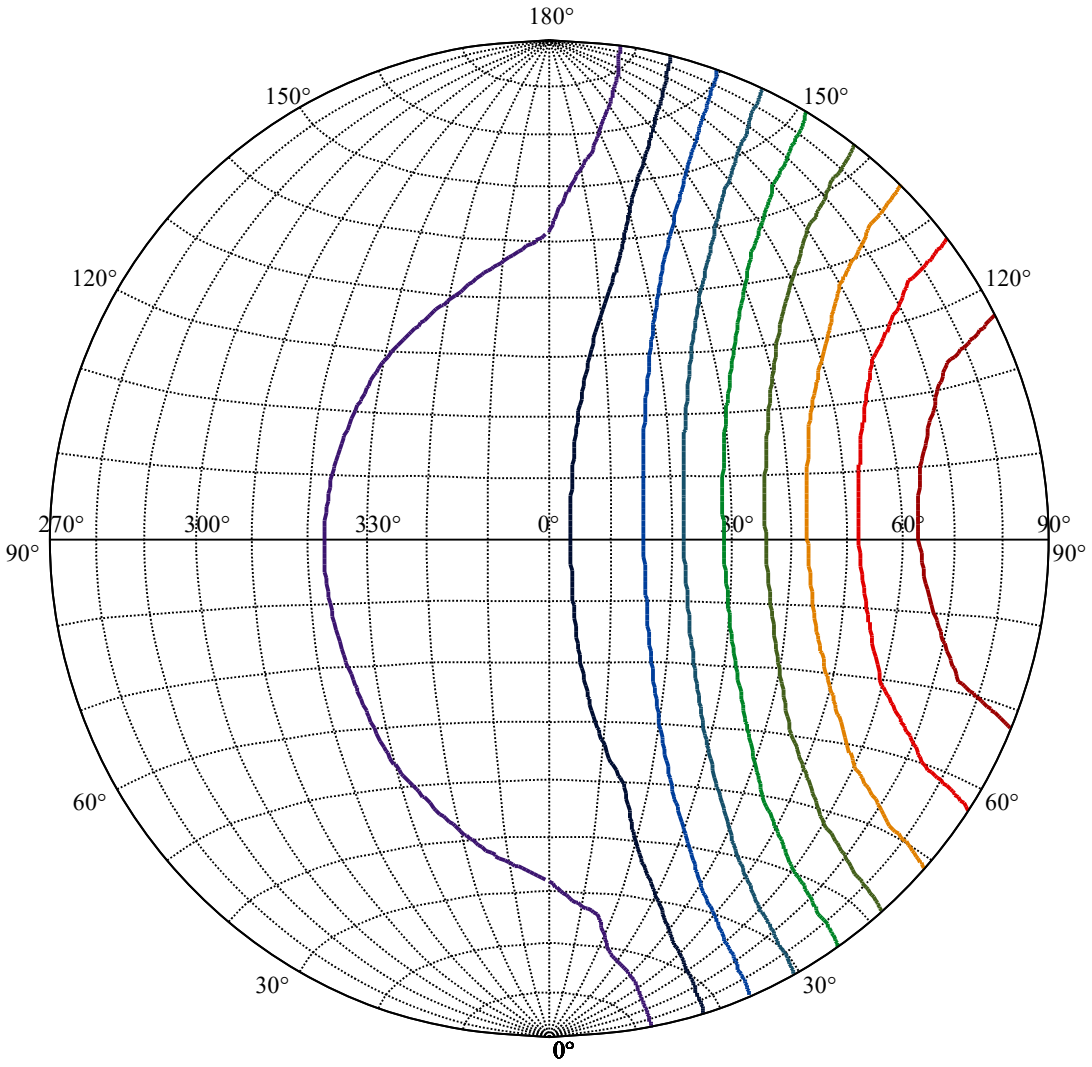
(10%Imax) 113.982
(20%Imax) 227.963
(30%Imax) 341.945
(40%Imax) 455.927
(50%Imax) 569.908
(60%Imax) 683.89
(70%Imax) 797.872
(80%Imax) 911.854
(90%Imax) 1025.84

Equipment: LC-I-902 GMS-2000
Temperature(°C): 24.9

Date: 2024/2/27
Humidity(%): 61.5%

Operator: JUN WANG
Distance(m): 29.97

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:1139.82

(10%Imax) 113.982
(20%Imax) 227.963
(30%Imax) 341.945
(40%Imax) 455.927
(50%Imax) 569.908
(60%Imax) 683.89
(70%Imax) 797.872
(80%Imax) 911.854
(90%Imax) 1025.84

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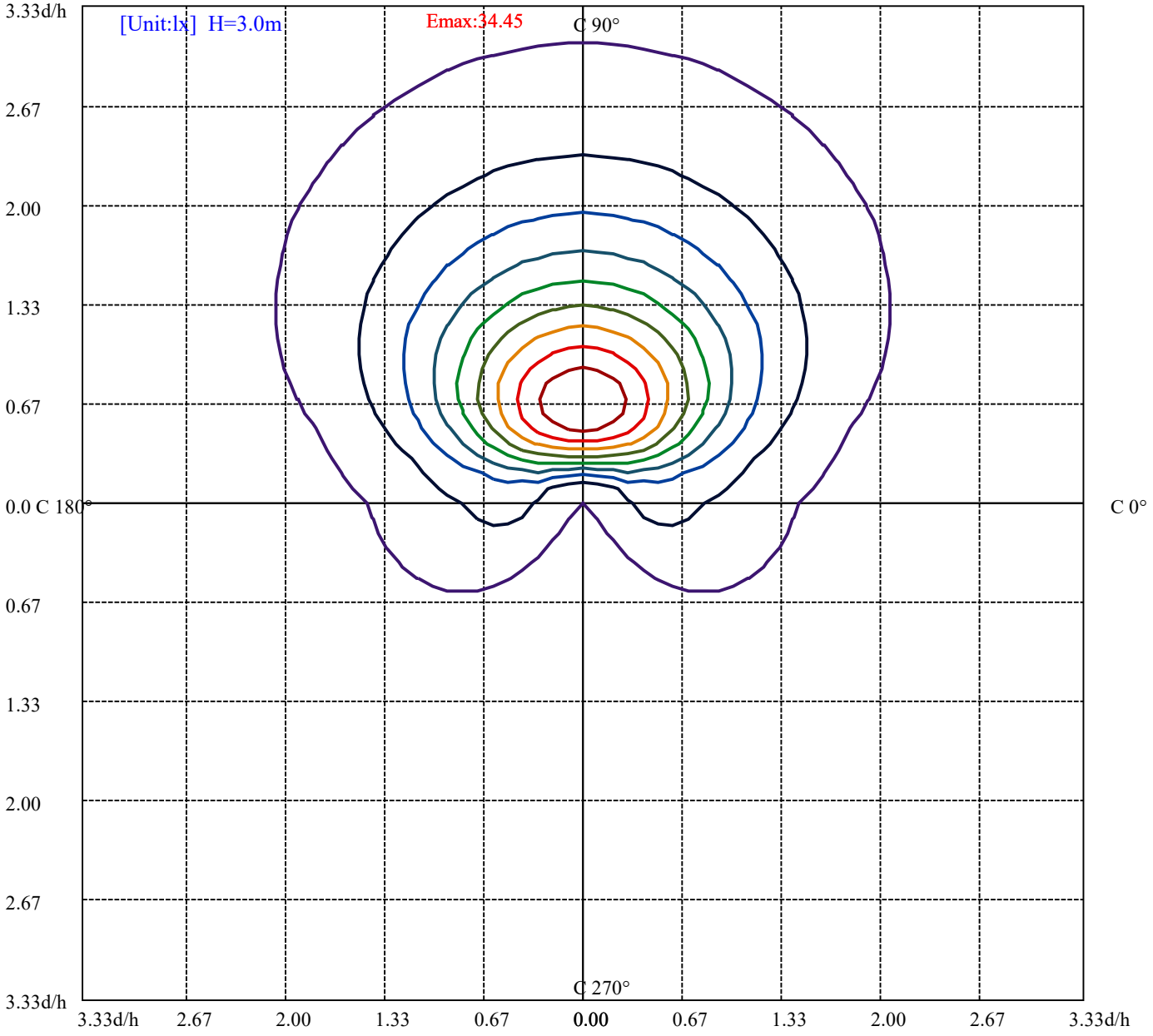
ISO illuminance diagram



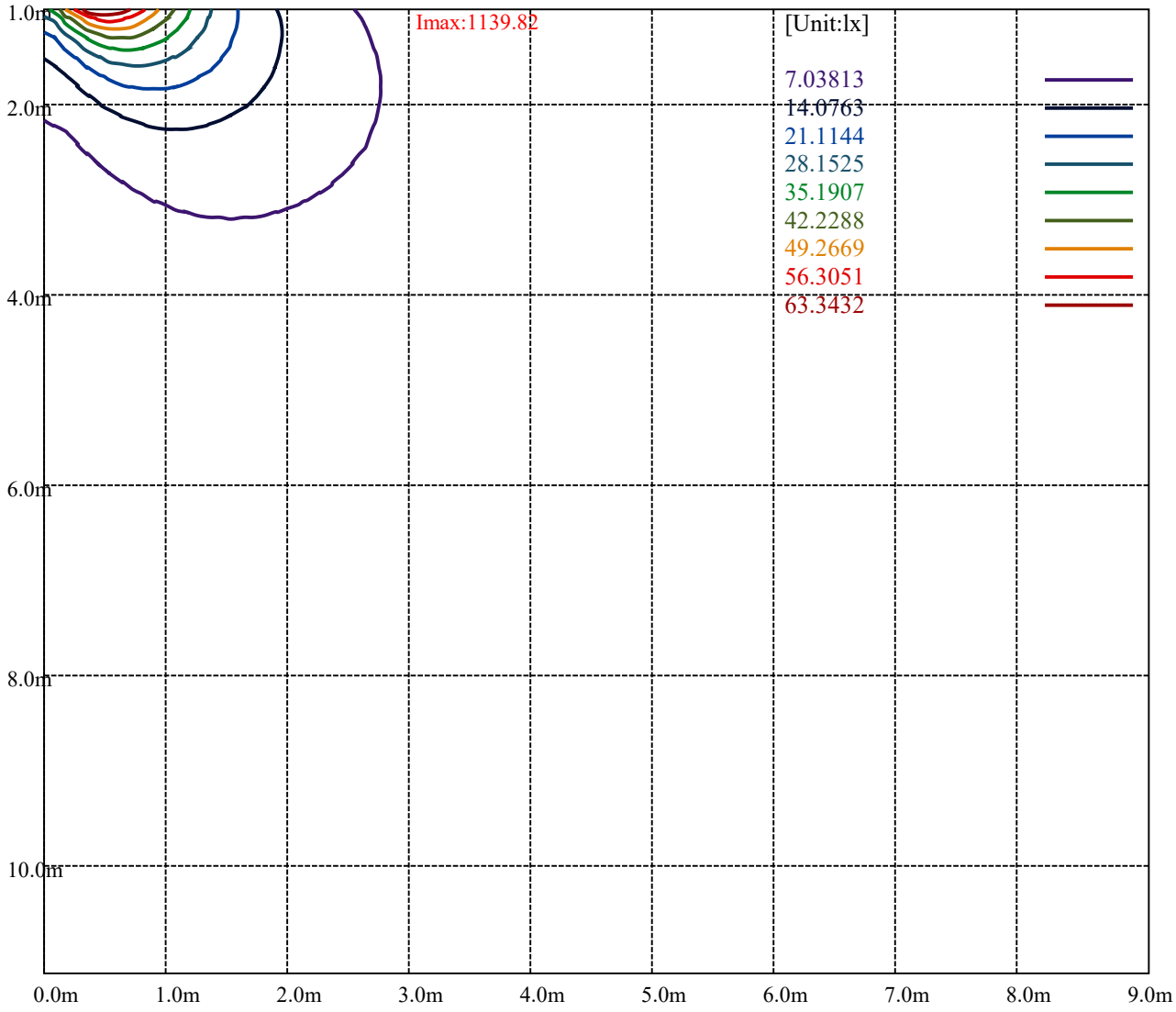
(10%Emax) 3.444944
(20%Emax) 6.889889
(30%Emax) 10.33482
(40%Emax) 13.77978
(50%Emax) 17.22467
(60%Emax) 20.66967
(70%Emax) 24.11456
(80%Emax) 27.55956
(90%Emax) 31.00445

Equipment: LC-I-902 GMS-2000
Temperature(°C): 24.9

Date: 2024/2/27
Humidity(%): 61.5%

Operator: JUN WANG
Distance(m): 29.97

Space ISO Lux diagram



Equipment: LC-I-902 GMS-2000
Temperature(°C): 24.9

Date: 2024/2/27
Humidity(%): 61.5%

Operator: JUN WANG
Distance(m): 29.97

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Luminance Limitting Curve(no luminous side)

Luminance Table

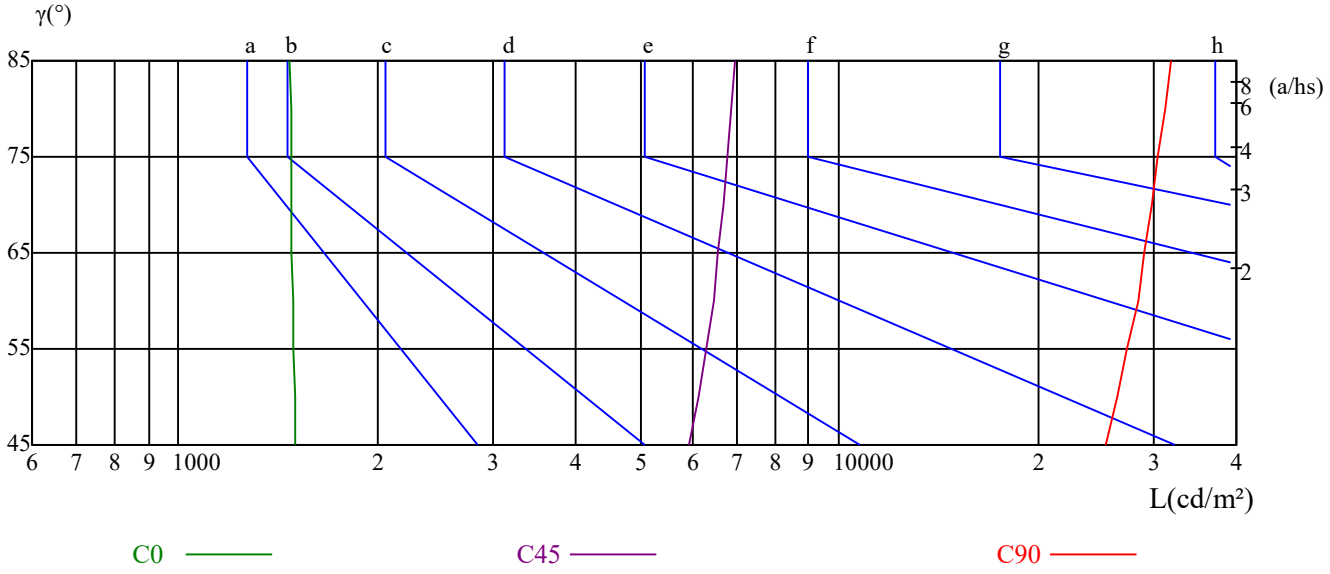
γ	45	50	55	60	65	70	75	80	85
C0	1500	1497	1489	1489	1481	1478	1479	1477	1476
C45	5925	6140	6310	6456	6571	6692	6782	6866	6947
C90	25343	26490	27356	28381	29081	29813	30493	31167	31800

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
71375	199072	158071	122909	352533	280523	372723	1093263	872120

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limitting Curve

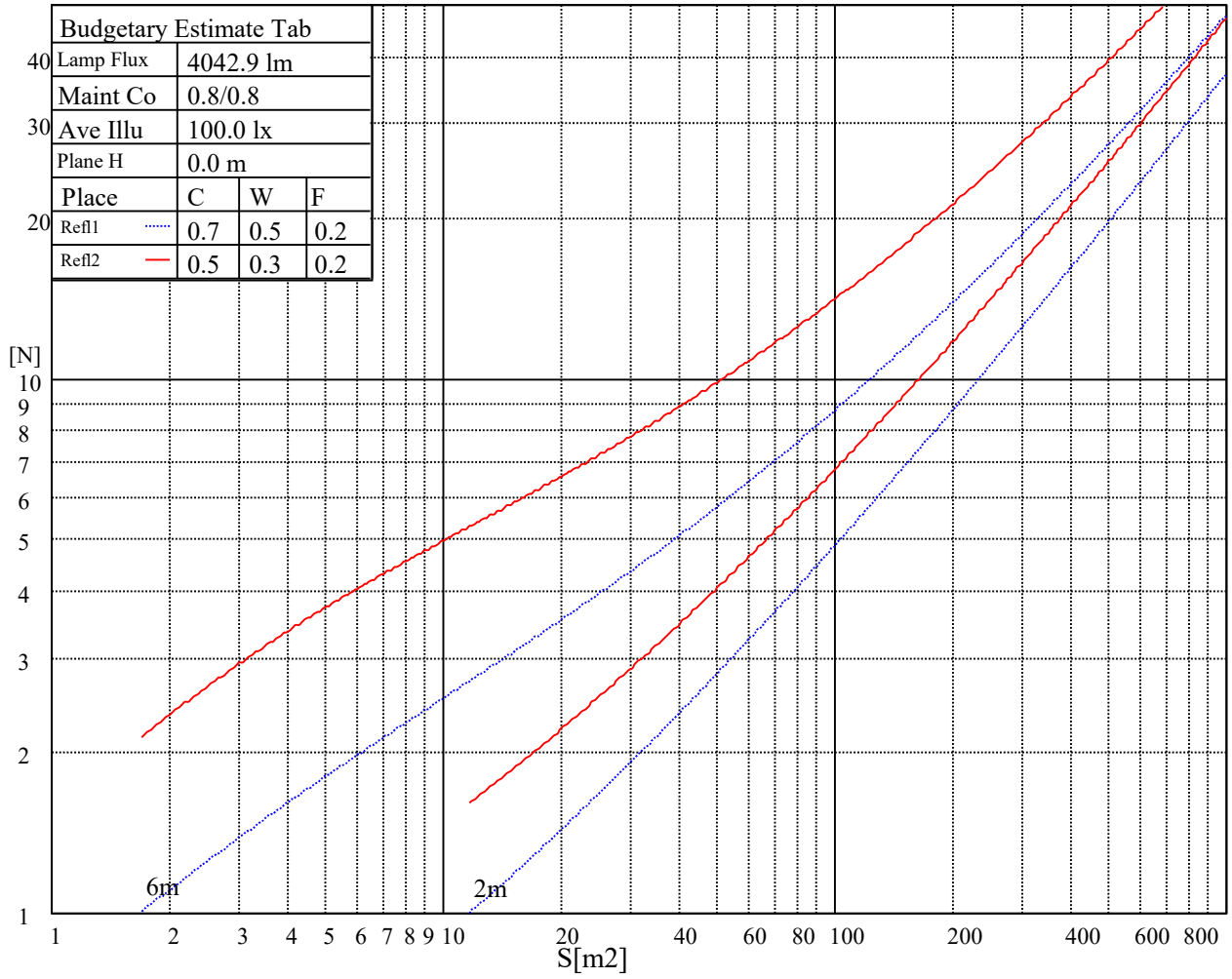


Equipment: LC-I-902 GMS-2000
Temperature(°C): 24.9

Date: 2024/2/27
Humidity(%): 61.5%

Operator: JUN WANG
Distance(m): 29.97

Budgetary Estimate Table

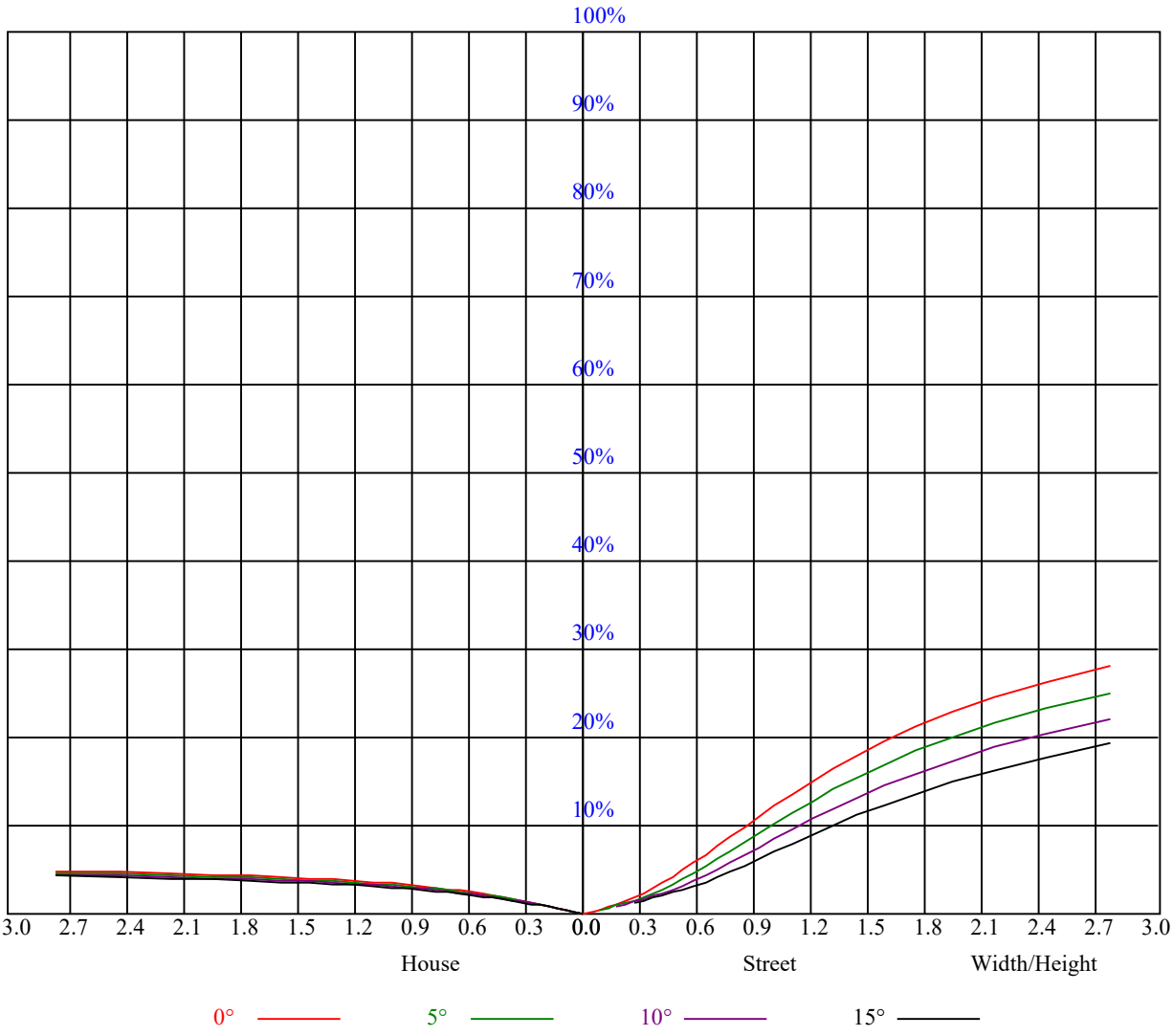


Equipment: LC-I-902 GMS-2000 Date: 2024/2/27 Operator: JUN WANG
Temperature(°C): 24.9 Humidity(%): 61.5% Distance(m): 29.97

Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.07	1.07	1.07	0.99	0.99	0.99	0.83	0.83	0.83	0.69	0.69	0.69	0.55	0.55	0.55	0.49
1	0.85	0.79	0.73	0.78	0.72	0.67	0.64	0.60	0.56	0.51	0.48	0.45	0.40	0.37	0.35	0.29
2	0.71	0.62	0.55	0.65	0.57	0.51	0.53	0.47	0.42	0.42	0.37	0.33	0.32	0.28	0.25	0.20
3	0.61	0.51	0.43	0.55	0.47	0.40	0.45	0.38	0.33	0.35	0.30	0.26	0.26	0.22	0.19	0.15
4	0.52	0.43	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.30	0.25	0.20	0.22	0.18	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.26	0.34	0.27	0.22	0.26	0.21	0.17	0.20	0.15	0.12	0.08
6	0.41	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.23	0.18	0.14	0.17	0.13	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.11	0.08	0.05
8	0.33	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.04
9	0.29	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.14	0.24	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.08	0.05	0.03

Coefficient Utilization Curve



Equipment: LC-I-902 GMS-2000	Date: 2024/2/27	Operator: JUN WANG
Temperature(°C): 24.9	Humidity(%): 61.5%	Distance(m): 29.97

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	32.34	34.13	44.01	58.38	73.65	89.82	105.09	118.56	132.04
15.0	32.34	35.03	45.81	64.67	87.13	112.28	137.42	162.57	189.52
30.0	31.44	35.03	52.10	81.74	125.75	171.56	222.75	273.05	321.56
45.0	30.54	35.03	61.08	112.28	178.74	250.60	319.76	395.21	459.88
60.0	29.64	35.93	73.65	143.71	223.65	312.57	401.50	487.72	568.56
75.0	29.64	35.93	80.84	161.68	256.89	354.79	451.80	540.72	628.74
90.0	28.74	35.93	82.63	171.56	265.87	368.26	467.96	564.07	653.89
105.0	28.74	35.03	79.94	159.88	254.19	352.09	449.10	538.02	630.54
120.0	28.74	34.13	71.86	137.42	224.55	308.98	397.90	483.23	559.58
135.0	31.44	33.23	57.48	108.68	174.25	246.11	314.37	388.92	453.59
150.0	29.64	31.44	46.71	77.25	154.49	167.96	214.67	264.07	312.57
165.0	29.64	31.44	41.32	59.28	79.94	103.29	128.44	153.59	179.64
180.0	32.34	38.62	52.10	66.47	82.63	97.90	111.38	125.75	137.42
195.0	32.34	35.93	46.71	58.38	71.86	84.43	97.01	107.78	118.56
210.0	31.44	34.13	40.42	49.40	59.28	68.26	77.25	86.23	94.31
225.0	30.54	30.54	33.23	37.72	43.11	47.60	52.99	57.48	62.87
240.0	29.64	28.74	27.84	27.84	26.95	26.95	26.95	26.95	26.95
255.0	29.64	27.84	26.05	24.25	22.46	20.66	18.86	16.17	14.37
270.0	28.74	27.84	26.05	24.25	22.46	20.66	17.96	16.17	13.47
285.0	28.74	27.84	26.05	24.25	22.46	20.66	18.86	16.17	16.17
300.0	28.74	28.74	27.84	28.74	28.74	28.74	29.64	29.64	29.64
315.0	31.44	30.54	34.13	39.52	44.01	50.30	55.69	60.18	64.67
330.0	29.64	33.23	41.32	50.30	60.18	69.16	79.04	88.02	95.21
345.0	29.64	35.93	45.81	59.28	71.86	84.43	97.01	107.78	118.56
360.0	32.34	34.13	44.01	58.38	73.65	89.82	105.09	118.56	132.04

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	143.71	154.49	163.47	172.45	178.74	184.13	188.62	191.32	193.11
15.0	211.98	235.33	256.89	276.65	293.71	308.08	321.56	330.54	337.72
30.0	368.26	408.68	450.90	484.13	515.57	541.62	564.07	580.24	592.81
45.0	523.65	582.93	635.93	683.53	723.95	760.78	788.62	810.18	825.45
60.0	644.01	714.97	773.35	829.94	880.24	921.55	954.79	980.84	997.90
75.0	711.38	787.72	856.88	917.96	971.85	1017.66	1052.69	1080.54	1098.50
90.0	738.32	816.46	882.93	950.30	1001.49	1047.30	1084.13	1112.87	1131.73
105.0	707.78	784.13	853.29	915.27	968.26	1013.17	1050.00	1077.84	1096.70
120.0	640.42	705.99	773.35	826.34	875.75	917.06	950.30	976.34	993.41
135.0	517.36	576.64	629.64	677.24	717.66	753.59	781.43	802.99	818.26
150.0	355.69	401.50	437.42	476.05	504.79	530.84	552.39	569.46	581.14
165.0	201.20	223.65	245.21	264.07	282.04	296.41	309.88	318.86	326.05
180.0	149.10	159.88	168.86	176.95	183.23	188.62	193.11	195.81	196.71
195.0	129.34	138.32	145.51	152.69	158.98	163.47	167.07	169.76	171.56
210.0	101.50	108.68	114.97	119.46	123.95	128.44	131.14	133.83	135.63
225.0	66.47	70.96	73.65	77.25	79.94	82.63	85.33	88.02	89.82
240.0	26.95	26.95	27.84	27.84	28.74	30.54	32.34	34.13	35.03
255.0	12.57	10.78	9.88	8.08	8.08	9.88	10.78	10.78	11.68
270.0	11.68	10.78	8.98	8.98	8.08	9.88	10.78	11.68	11.68
285.0	12.57	10.78	9.88	8.08	8.08	8.98	9.88	11.68	11.68
300.0	29.64	29.64	30.54	30.54	31.44	33.23	35.03	35.93	36.83
315.0	68.26	72.75	76.35	79.04	81.74	84.43	87.13	89.82	90.72
330.0	103.29	109.58	115.87	121.26	124.85	128.44	132.04	134.73	135.63
345.0	128.44	136.53	144.61	150.90	156.29	160.78	164.37	167.07	167.96
360.0	143.71	154.49	163.47	172.45	178.74	184.13	188.62	191.32	193.11

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	194.01	194.01	193.11	189.52	185.93	178.74	170.66	161.68	150.90
15.0	342.21	343.11	341.32	335.93	326.05	313.47	297.30	280.24	256.89
30.0	599.10	600.00	595.51	584.73	567.66	545.21	520.06	487.72	450.90
45.0	834.43	833.53	825.45	811.08	789.52	758.98	721.26	678.14	630.54
60.0	1005.99	1005.99	997.00	979.94	952.99	920.66	878.44	825.45	766.17
75.0	1108.38	1108.38	1098.50	1077.84	1052.69	1014.07	966.46	909.88	851.49
90.0	1139.82	1139.82	1129.04	1110.18	1080.54	1041.91	997.00	939.52	874.85
105.0	1105.69	1104.79	1094.91	1076.94	1049.10	1010.48	962.87	908.98	843.41
120.0	1002.39	1002.39	993.41	975.45	950.30	914.37	870.36	822.75	765.27
135.0	827.24	826.34	818.26	804.79	783.23	753.59	716.76	674.55	628.74
150.0	588.32	588.32	582.93	573.05	556.88	534.43	510.18	478.74	441.91
165.0	330.54	331.44	328.74	324.25	315.27	302.69	287.42	269.46	248.80
180.0	196.71	194.91	192.21	187.72	180.54	172.45	162.57	152.69	140.12
195.0	171.56	170.66	167.96	164.37	158.08	150.90	142.81	132.93	122.16
210.0	136.53	135.63	132.93	129.34	124.85	118.56	112.28	104.19	95.21
225.0	89.82	88.92	88.02	85.33	81.74	77.25	76.35	66.47	60.18
240.0	35.03	35.03	35.03	33.23	31.44	29.64	26.95	24.25	21.56
255.0	11.68	11.68	11.68	10.78	8.98	8.08	6.29	5.39	3.59
270.0	11.68	11.68	11.68	10.78	9.88	8.08	6.29	5.39	3.59
285.0	11.68	11.68	11.68	10.78	9.88	8.08	7.19	5.39	4.49
300.0	36.83	36.83	35.93	34.13	32.34	30.54	27.84	25.15	21.56
315.0	90.72	89.82	88.02	85.33	81.74	77.25	71.86	66.47	60.18
330.0	135.63	134.73	132.04	129.34	123.95	118.56	111.38	103.29	95.21
345.0	167.96	167.07	164.37	160.78	155.39	148.20	140.12	130.24	119.46
360.0	194.01	194.01	193.11	189.52	185.93	178.74	170.66	161.68	150.90

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	139.22	125.75	112.28	97.01	79.94	63.77	44.91	28.74	13.47
15.0	235.33	209.28	182.33	152.69	124.85	93.41	65.57	38.62	17.96
30.0	408.68	362.87	314.37	265.87	212.87	158.98	107.78	62.87	26.05
45.0	574.85	513.77	447.30	377.24	302.69	231.74	157.19	88.92	35.03
60.0	700.60	627.84	553.29	465.27	381.74	291.92	204.79	115.87	47.60
75.0	776.94	698.80	615.27	524.55	435.63	331.44	235.33	139.22	55.69
90.0	802.09	722.15	640.42	552.39	450.90	349.40	249.70	144.61	61.98
105.0	775.15	697.00	613.47	523.65	433.83	335.03	235.33	139.22	56.59
120.0	699.70	627.84	553.29	470.66	383.53	293.71	203.89	122.16	50.30
135.0	570.36	513.77	449.10	379.94	307.18	237.13	163.47	95.21	38.62
150.0	401.50	357.48	312.57	262.27	210.18	158.98	110.48	61.98	27.84
165.0	227.24	202.99	176.95	149.10	121.26	93.41	65.57	39.52	18.86
180.0	127.54	111.38	97.01	81.74	65.57	47.60	31.44	17.07	6.29
195.0	110.48	97.90	84.43	70.96	56.59	52.99	26.95	13.47	5.39
210.0	85.33	83.53	65.57	53.89	43.11	31.44	20.66	11.68	4.49
225.0	54.79	47.60	41.32	34.13	26.95	19.76	13.47	8.08	3.59
240.0	18.86	17.07	14.37	12.57	9.88	8.08	6.29	4.49	2.69
255.0	2.69	2.69	2.69	2.69	2.69	2.69	3.59	2.69	2.69
270.0	2.69	2.69	2.69	2.69	2.69	2.69	3.59	2.69	3.59
285.0	3.59	3.59	2.69	3.59	3.59	3.59	3.59	2.69	4.49
300.0	18.86	17.07	14.37	12.57	9.88	8.08	6.29	5.39	4.49
315.0	53.89	46.71	39.52	33.23	26.05	17.96	11.68	8.08	5.39
330.0	85.33	75.45	64.67	53.89	42.22	31.44	19.76	11.68	5.39
345.0	108.68	96.11	83.53	69.16	54.79	40.42	26.05	14.37	6.29
360.0	139.22	125.75	112.28	97.01	79.94	63.77	44.91	28.74	13.47

Intensity data(cd)

C/γ(°)	180.0
0.0	6.29
15.0	6.29
30.0	6.29
45.0	7.19
60.0	8.08
75.0	8.08
90.0	9.88
105.0	9.88
120.0	9.88
135.0	8.98
150.0	7.19
165.0	6.29
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	6.29