



LUMA Lighting

LumCAT:	Luminaire: FL13-150W-P540-D1-GLC-SSF
Report No: FL13-150W-P540-D1-GLC	Voltage(V): 0.000
Test No: JK lab 2016 0921	Current(A): 0.000
LampCAT: :	Power (W): 164.300
Lamp flux(lm)	PF: 0.000
Number of Lamps: 1	Ballast type:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 21031.26
Lumens(lm)/Power(W): 128.01
Central intensity(cd): 7726.540
Maximum intensity(cd): 7753.880
Angle of maximum intensity: C=337.5 =1.0
Beam Angle(50% lmax): [C0__180]Left=55.7 Right=57.1
[C90__270]Left=55.6 Right=53.1
Field angle(10% lmax): [C0__180]Left=76.1 Right=77.0
[C90__270]Left=74.0 Right=71.4
Effective flux(lm): 20739.29
IES Nema Type : Type7H×7V

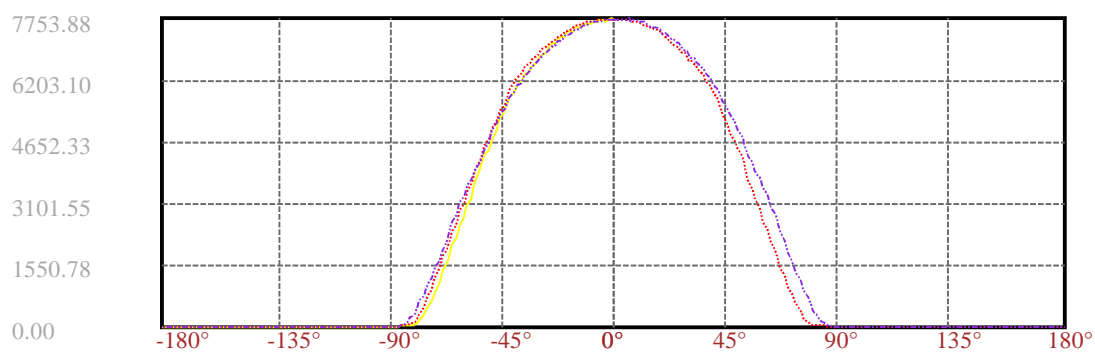
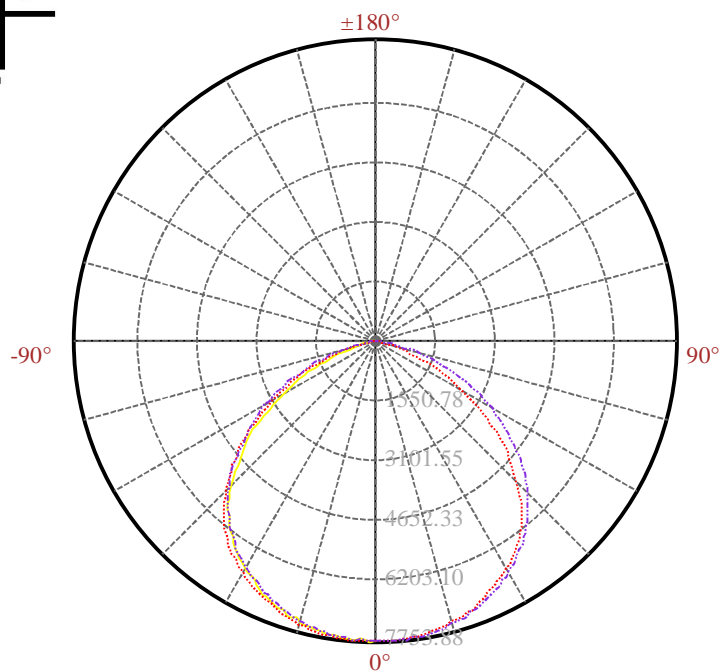
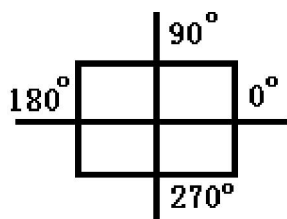
LUMA Lighting

Zonal flux distribution table 单位:lm

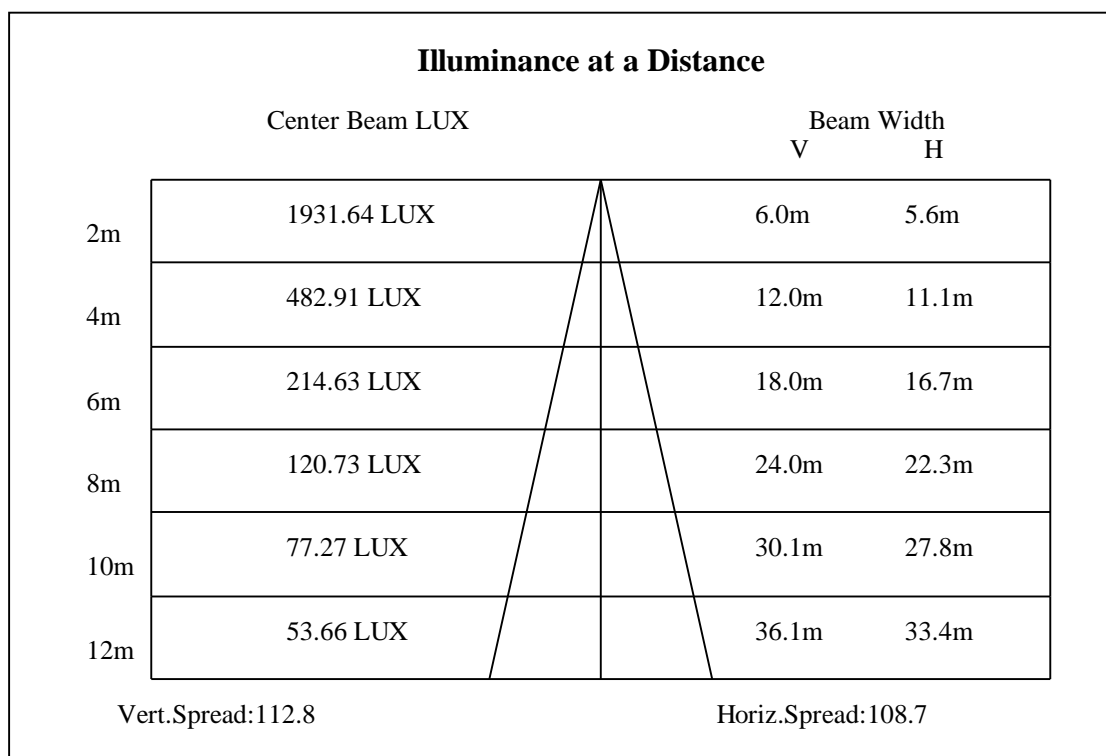
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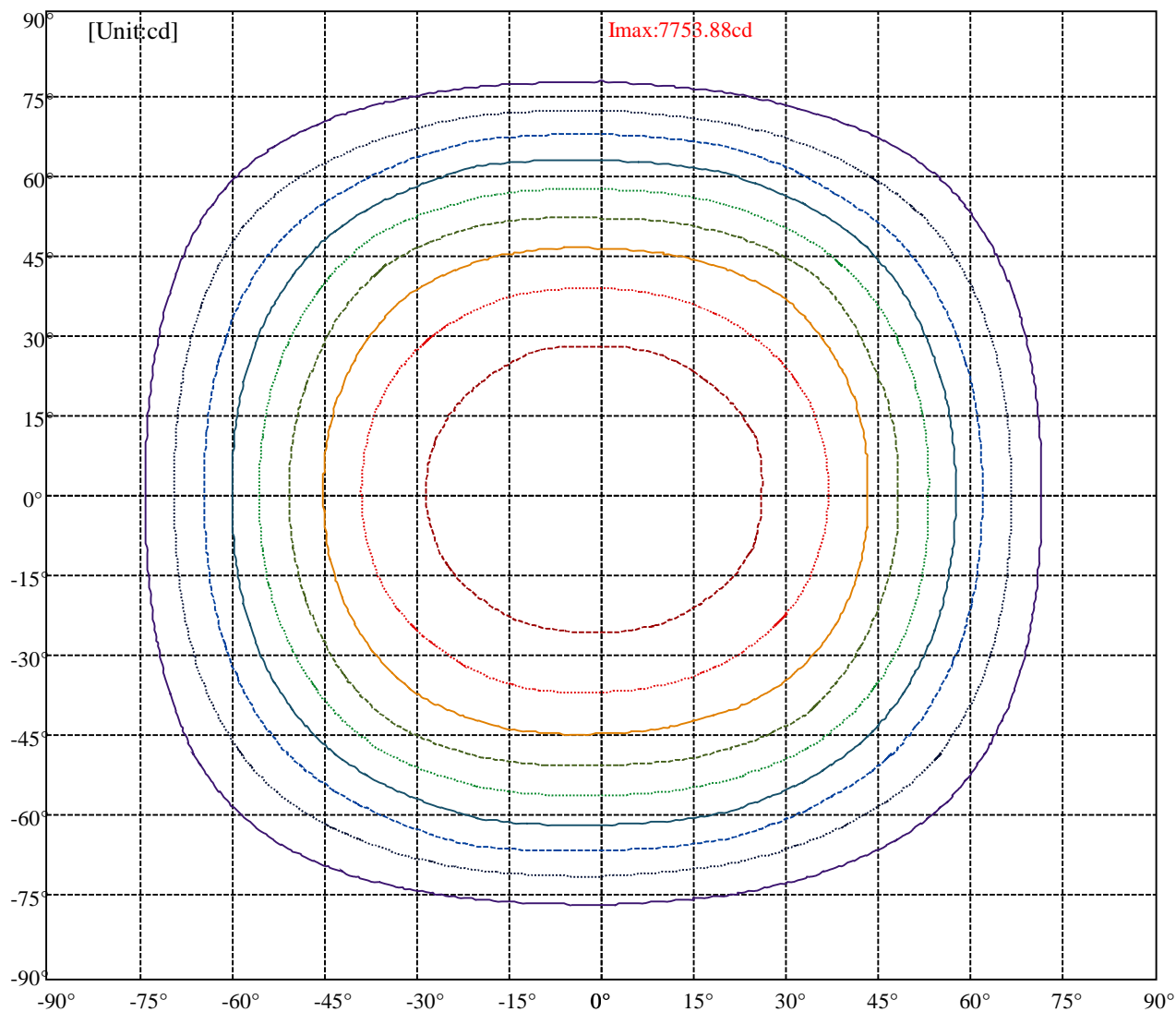
V \ H		H																			Total	
V		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	---	---
	-90	0.0	0.0	0.1	0.2	0.4	0.9	1.7	2.2	2.5	2.3	1.7	1.0	0.5	0.3	0.1	0.0	0.0	0.0		14.0	
	-80	0.0	0.1	0.5	2.3	6.8	13.4	20.6	25.9	28.4	27.5	23.4	17.0	9.6	3.9	1.1	0.3	0.1	0.0		181.0	
	-70	0.0	0.3	2.5	10.9	24.7	41.3	58.7	70.8	75.3	73.8	66.6	52.7	34.9	18.6	6.8	1.1	0.2	0.0		539.4	
	-60	0.0	0.8	7.5	24.1	46.8	73.3	97.6	113.7	120.3	119.1	110.5	92.4	66.3	39.7	17.8	4.2	0.4	0.0		934.4	
	-50	0.1	1.8	13.7	37.3	69.3	104.5	133.6	152.9	161.1	159.8	149.1	128.5	98.2	61.8	30.5	9.0	0.8	0.0		1312.2	
	-40	0.1	3.1	19.6	49.4	88.6	128.8	160.0	181.2	191.1	190.0	178.1	155.6	123.0	81.8	42.2	14.4	1.6	0.1		1608.7	
	-30	0.1	4.4	24.4	59.1	102.4	145.3	177.3	200.3	211.5	210.7	197.9	174.0	140.1	96.0	51.9	18.8	2.4	0.1		1816.5	
	-20	0.1	5.3	27.6	65.6	111.8	156.1	189.7	213.3	225.1	224.4	211.2	186.5	151.4	105.6	58.6	21.9	3.1	0.1		1957.5	
	-10	0.1	5.8	29.2	68.7	116.4	161.3	195.9	220.4	232.0	231.4	218.8	193.0	157.0	110.2	61.6	23.4	3.4	0.1		2028.5	
	0	0.1	5.8	29.3	68.9	116.6	161.8	196.3	220.7	232.6	232.4	219.6	193.5	157.4	110.5	61.7	23.5	3.4	0.1		2034.3	
	10	0.1	5.4	27.9	66.1	112.6	157.5	191.3	214.9	227.7	227.1	213.2	188.2	152.8	106.4	58.8	22.1	3.1	0.1		1975.6	
	20	0.1	4.4	24.8	59.9	103.9	147.2	180.4	203.6	215.6	214.7	201.5	176.9	142.4	97.2	52.3	19.0	2.5	0.1		1846.4	
	30	0.1	3.2	20.3	50.5	90.8	131.7	163.6	185.4	195.9	195.0	182.6	159.7	126.4	83.2	42.8	14.6	1.6	0.1		1647.4	
	40	0.1	1.9	14.4	38.7	72.0	108.9	138.5	158.1	166.8	165.7	154.7	133.3	101.3	63.4	31.1	9.3	0.8	0.0		1359.0	
	50	0.0	0.8	7.9	25.4	48.8	77.0	102.5	119.3	126.2	124.9	115.5	96.3	68.9	40.9	18.4	4.4	0.4	0.0		977.6	
	60	0.0	0.3	2.7	11.8	26.6	44.1	62.6	75.6	80.6	79.2	71.4	56.3	37.0	19.8	7.2	1.2	0.2	0.0		576.7	
	70	0.0	0.2	0.6	2.6	7.7	15.1	23.1	29.1	32.2	31.0	26.0	18.8	10.7	4.4	1.2	0.3	0.1	0.0		203.1	
	80	0.0	0.0	0.1	0.2	0.5	1.2	2.2	3.0	3.5	3.2	2.3	1.4	0.7	0.3	0.1	0.0	0.0	0.0		18.9	
	90																					
Total	---	1.2	43.6	253.2	641.8	1146.8	1669.4	2095.7	2390.6	2528.3	2512.3	2344.5	2025.0	1578.5	1043.8	544.3	187.6	24.1	0.7		21031.3	

Equipment: GMS2200
Temperature(°C): 25Date:
Humidity(%): 60%Operator:
Distance(m): 13.72



C337.5(Max): ————
C0/C180:
C90/C270: - - - - -





(10% Imax) 774.588

(20% Imax) 1549.18

(30% Imax) 2323.76

(40% Imax) 3098.35

(50% Imax) 3872.94

(60% Imax) 4647.53

(70% Imax) 5422.12

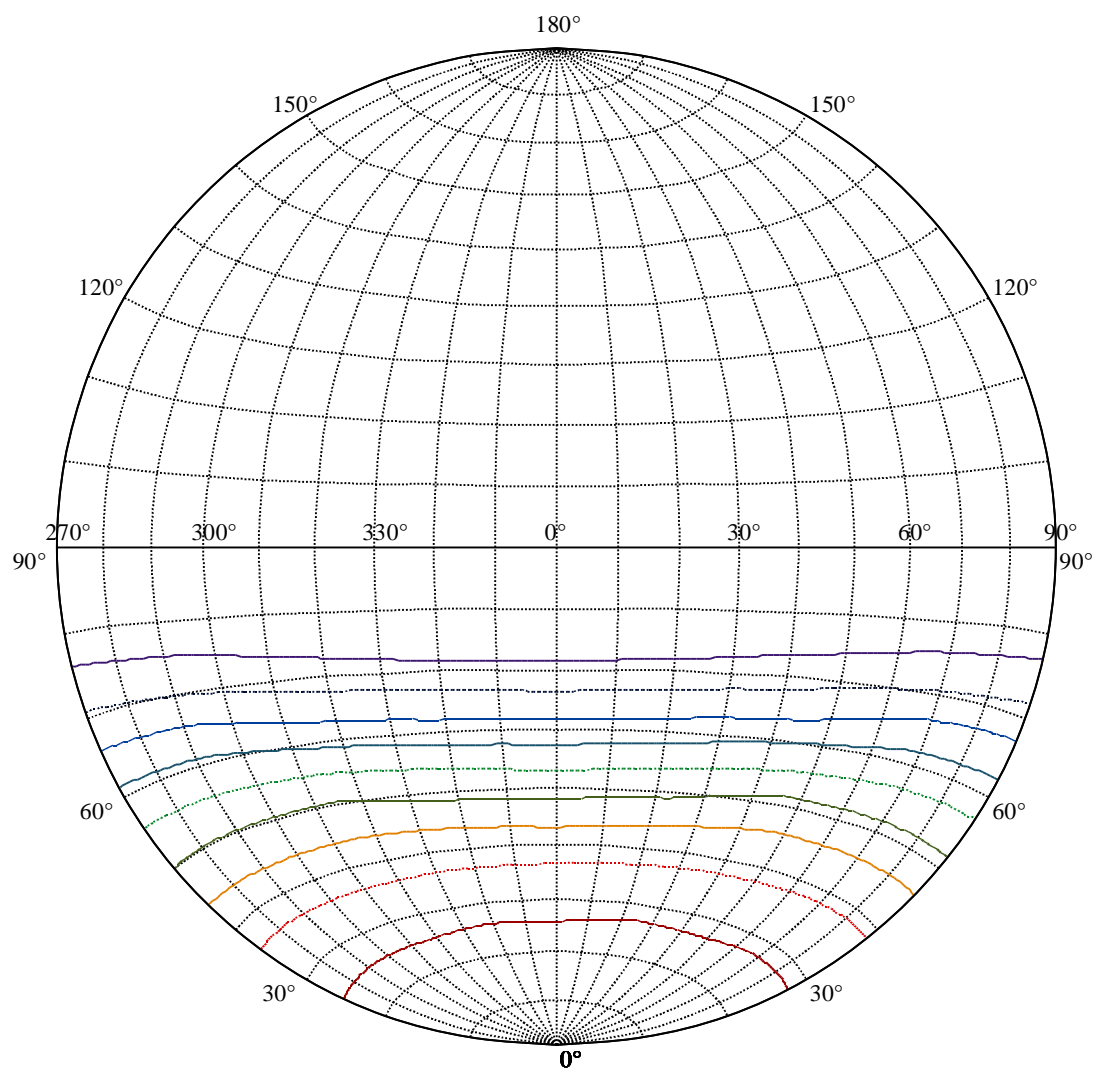
(80% Imax) 6196.7

(90% Imax) 6971.29

Equipment: GMS2200
Temperature(°C): 25

Date:
Humidity(%): 60%

Operator:
Distance(m): 13.72

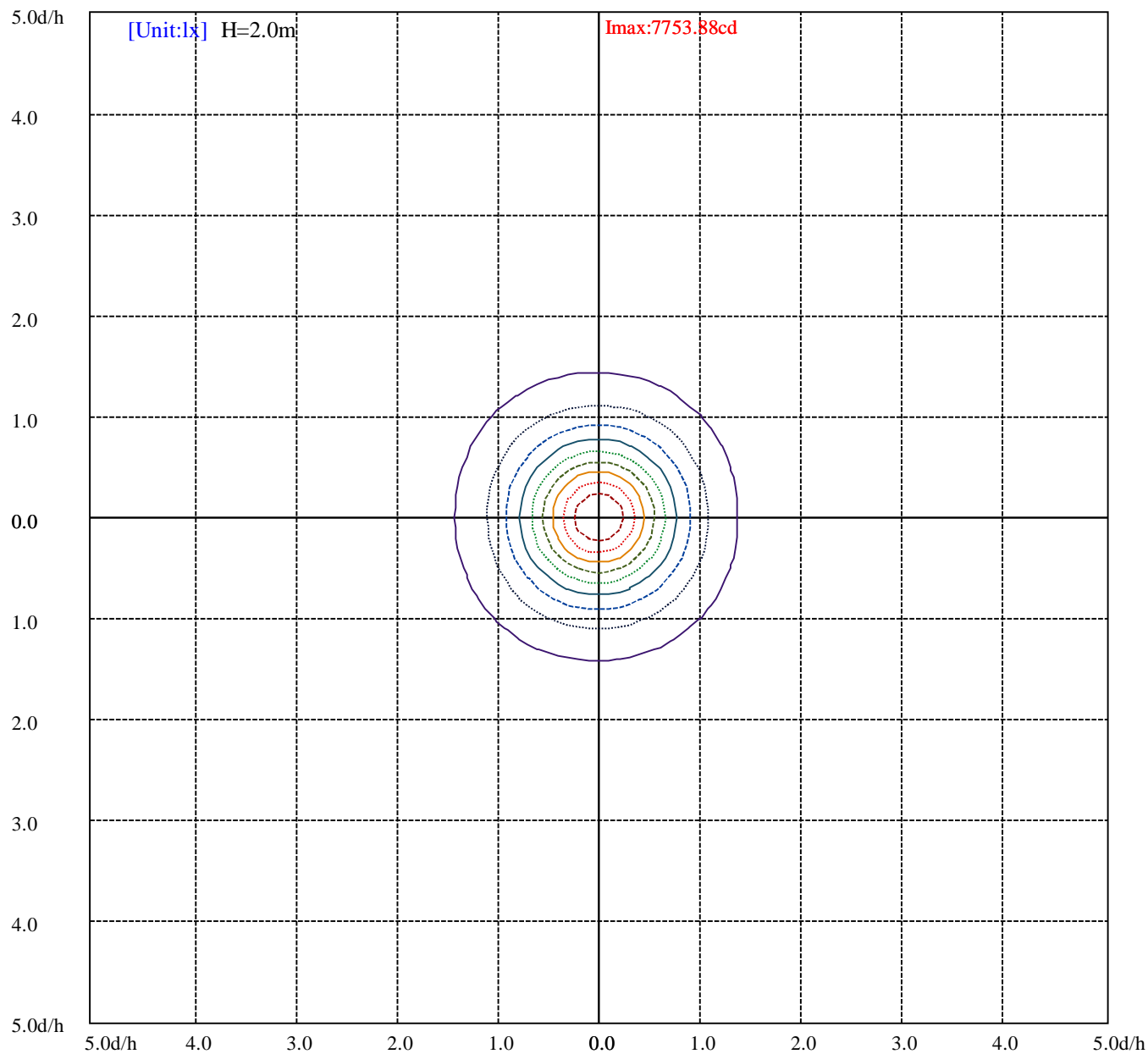


House

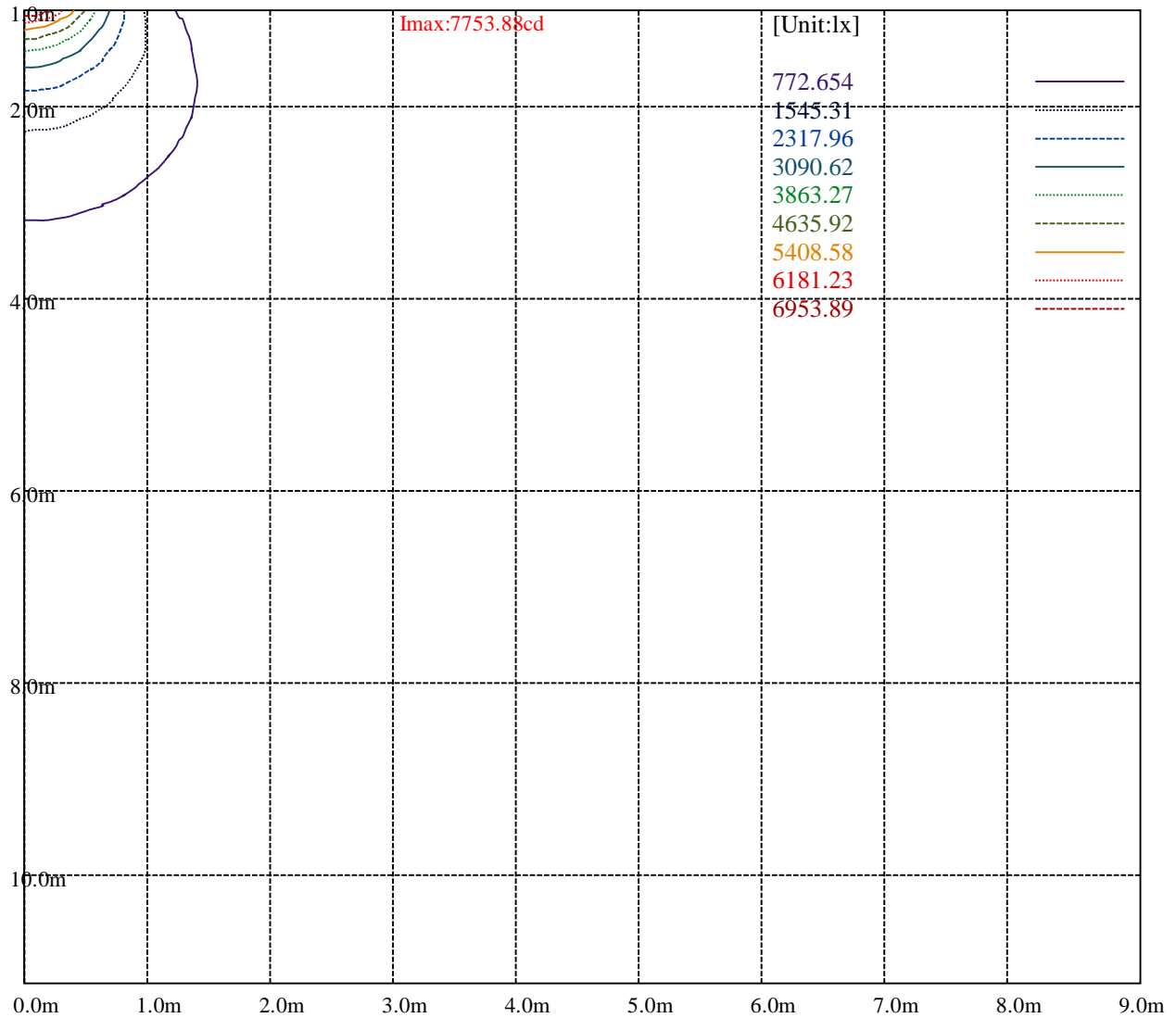
Road

Imax:7753.88cd

(10% Imax)	775.303	—
(20% Imax)	1550.61	---
(30% Imax)	2325.91	- - -
(40% Imax)	3101.21	—
(50% Imax)	3876.52	---
(60% Imax)	4651.82	- - -
(70% Imax)	5427.12	—
(80% Imax)	6202.43	---
(90% Imax)	6977.73	- - -



(10%Emax)	193.1635	———
(20%Emax)	386.3275
(30%Emax)	579.49	- - - - -
(40%Emax)	772.655	———
(50%Emax)	965.8175
(60%Emax)	1158.98	- - - - -
(70%Emax)	1352.145	———
(80%Emax)	1545.307
(90%Emax)	1738.473	- - - - -



Luminance Table

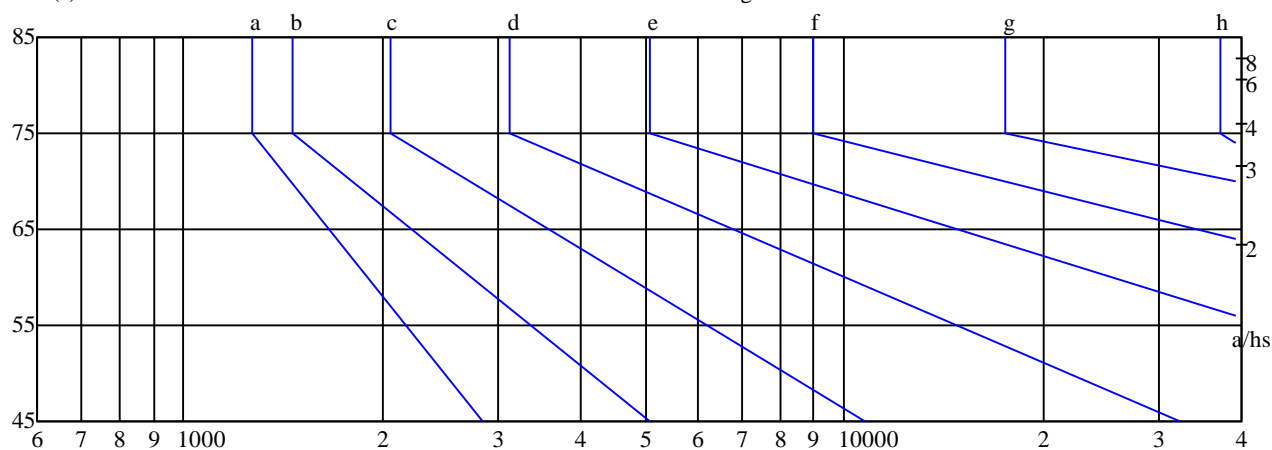
	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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 Limiting Curve



LUMA Lighting

Intensity data(cd)

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C/ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	7726.54	7706.37	7727.10	7709.75	7713.05	7701.56	7695.00	7679.22	7670.40
22.5	7726.54	7744.67	7743.90	7714.18	7736.35	7734.09	7728.69	7695.88	7685.72
45.0	7726.54	7722.81	7707.12	7737.46	7695.07	7698.56	7660.44	7674.11	7654.23
67.5	7726.54	7749.41	7750.50	7730.10	7702.39	7725.87	7696.09	7690.13	7681.73
90.0	7726.54	7716.23	7726.20	7718.83	7718.53	7707.06	7745.88	7672.73	7689.85
112.5	7726.54	7700.81	7718.84	7709.31	7712.48	7698.88	7732.53	7721.95	7662.37
135.0	7726.54	7734.84	7719.20	7740.10	7671.73	7706.63	7693.22	7652.38	7639.12
157.5	7726.54	7740.30	7742.49	7721.65	7718.35	7727.92	7675.55	7683.28	7673.37
180.0	7726.54	7723.91	7711.05	7712.33	7718.75	7715.13	7701.45	7698.12	7669.54
202.5	7726.54	7745.75	7735.23	7735.44	7723.74	7735.78	7708.63	7698.10	7713.14
225.0	7726.54	7726.35	7711.13	7654.26	7715.76	7693.13	7683.44	7641.58	7647.55
247.5	7726.54	7729.17	7721.09	7703.51	7685.79	7687.51	7663.85	7674.35	7650.15
270.0	7726.54	7717.03	7709.39	7689.50	7708.62	7666.46	7657.75	7644.58	7644.54
292.5	7726.54	7699.23	7726.50	7716.55	7703.36	7688.49	7666.23	7652.88	7625.47
315.0	7726.54	7715.82	7634.92	7674.27	7674.11	7659.41	7654.92	7657.14	7619.97
337.5	7726.54	7753.88	7714.86	7669.20	7701.14	7707.65	7695.39	7679.54	7652.30
360.0	7726.54	7706.37	7727.10	7709.75	7713.05	7701.56	7695.00	7679.22	7670.40

C/ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7649.72	7636.52	7615.05	7580.83	7541.91	7533.50	7489.99	7465.16	7446.31
22.5	7662.60	7645.58	7630.22	7620.75	7586.25	7557.90	7540.64	7510.64	7462.29
45.0	7649.93	7620.78	7582.86	7577.70	7556.34	7533.54	7501.30	7462.30	7398.66
67.5	7675.05	7672.60	7619.99	7631.19	7588.56	7578.62	7557.37	7520.82	7476.67
90.0	7694.54	7673.02	7646.54	7639.52	7605.45	7567.00	7517.77	7507.94	7493.51
112.5	7664.79	7627.64	7659.11	7599.30	7594.86	7597.81	7563.09	7543.85	7499.63
135.0	7680.87	7654.76	7644.98	7598.59	7563.90	7545.52	7532.74	7516.88	7465.92
157.5	7690.11	7661.08	7658.89	7639.10	7619.47	7585.97	7566.77	7506.27	7523.43
180.0	7660.56	7661.70	7644.03	7631.27	7595.86	7555.06	7559.43	7524.11	7475.51
202.5	7675.52	7665.93	7642.60	7626.15	7608.50	7584.08	7555.48	7515.90	7472.52
225.0	7650.28	7653.00	7610.33	7553.66	7565.39	7540.40	7494.95	7478.98	7432.17
247.5	7629.99	7617.93	7565.93	7567.40	7535.35	7509.27	7478.74	7438.11	7396.66
270.0	7633.55	7586.37	7579.29	7543.46	7528.06	7486.01	7450.55	7426.14	7385.74
292.5	7614.33	7576.76	7581.04	7545.14	7523.65	7477.63	7438.25	7400.86	7378.32
315.0	7598.00	7614.31	7548.24	7533.53	7509.13	7490.40	7436.48	7412.31	7383.38
337.5	7632.19	7628.91	7604.06	7556.59	7546.56	7511.74	7518.84	7422.03	7429.74
360.0	7649.72	7636.52	7615.05	7580.83	7541.91	7533.50	7489.99	7465.16	7446.31

C/ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	7419.49	7346.16	7336.40	7271.20	7193.11	7151.11	7090.56	7032.11	6965.88
22.5	7417.00	7384.66	7355.89	7296.86	7242.89	7188.31	7140.21	7074.24	7025.69
45.0	7362.70	7359.35	7310.18	7264.69	7223.20	7182.15	7125.37	7081.59	7054.80
67.5	7444.30	7390.64	7378.05	7320.70	7277.09	7232.63	7164.26	7121.43	7047.35
90.0	7462.86	7387.54	7371.37	7345.20	7285.09	7247.02	7215.75	7132.12	7111.62
112.5	7489.35	7464.07	7375.99	7398.64	7326.42	7238.41	7225.82	7212.01	7140.48
135.0	7450.42	7414.43	7367.41	7341.43	7289.22	7201.33	7199.30	7135.67	7093.63
157.5	7434.45	7446.39	7409.41	7380.43	7327.63	7284.20	7229.64	7162.95	7136.33
180.0	7438.45	7392.73	7361.61	7309.50	7266.50	7232.86	7184.42	7149.34	7091.71
202.5	7455.88	7398.47	7378.47	7339.82	7292.86	7258.91	7190.66	7125.23	7098.57
225.0	7389.40	7342.34	7315.73	7275.29	7231.14	7183.53	7126.36	7073.28	7034.12
247.5	7385.24	7326.05	7291.83	7251.78	7219.98	7167.14	7107.75	7047.01	6974.16
270.0	7328.14	7306.84	7256.20	7193.63	7178.78	7090.22	7060.18	6996.73	6916.80
292.5	7357.21	7331.18	7252.39	7212.18	7170.65	7131.67	7081.33	7008.12	6939.02
315.0	7320.62	7280.59	7239.63	7204.80	7127.12	7110.44	7047.97	7016.92	6921.72
337.5	7422.57	7330.83	7293.30	7267.86	7206.73	7149.72	7112.97	7060.46	6995.30
360.0	7419.49	7346.16	7336.40	7271.20	7193.11	7151.11	7090.56	7032.11	6965.88

LUMA Lighting

Intensity data(cd)										Page: 11 Total:16	
C/ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0		
0.0	6906.52	6879.42	6788.31	6707.62	6671.53	6597.74	6528.13	6441.94	6336.63		
22.5	6983.92	6895.26	6856.37	6773.64	6698.02	6617.69	6546.23	6465.39	6400.40		
45.0	6952.08	6891.00	6837.47	6774.27	6685.86	6658.97	6589.77	6483.93	6411.08		
67.5	7015.41	6954.96	6922.85	6839.14	6765.64	6699.06	6614.75	6550.81	6467.23		
90.0	7047.03	6940.19	6924.16	6846.65	6762.02	6734.12	6630.85	6575.12	6485.18		
112.5	7039.21	7016.30	6952.61	6898.32	6821.30	6745.99	6682.92	6611.30	6538.57		
135.0	7036.83	7002.35	6917.12	6846.76	6817.25	6752.86	6686.43	6600.41	6536.83		
157.5	7076.40	7018.23	6947.15	6881.21	6838.81	6784.35	6731.34	6648.59	6570.74		
180.0	7039.21	6987.98	6958.84	6861.60	6800.85	6752.09	6664.61	6616.41	6531.42		
202.5	7039.90	6981.95	6912.64	6842.71	6785.06	6715.00	6662.91	6579.23	6492.60		
225.0	6971.76	6902.94	6841.31	6764.60	6706.15	6630.96	6563.87	6497.97	6392.40		
247.5	6952.36	6878.29	6820.51	6756.47	6689.88	6623.55	6524.64	6493.97	6427.25		
270.0	6875.46	6831.21	6752.25	6685.06	6625.46	6570.07	6494.01	6410.82	6317.17		
292.5	6889.69	6813.42	6737.99	6689.57	6609.25	6554.14	6463.74	6395.67	6329.65		
315.0	6860.37	6797.38	6754.72	6668.88	6591.78	6526.47	6467.47	6398.73	6304.07		
337.5	6889.87	6843.17	6795.44	6729.12	6654.93	6570.58	6498.67	6408.38	6354.34		
360.0	6906.52	6879.42	6788.31	6707.62	6671.53	6597.74	6528.13	6441.94	6336.63		
C/ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	6286.72	6169.01	6070.99	5980.54	5862.60	5739.12	5598.84	5450.64	5290.39		
22.5	6320.24	6231.66	6135.76	6035.76	5941.99	5817.23	5704.88	5602.66	5466.22		
45.0	6346.90	6252.13	6166.22	6090.63	5986.69	5905.44	5828.36	5711.11	5607.97		
67.5	6379.52	6296.58	6214.37	6131.21	6034.55	5947.44	5836.64	5739.33	5634.15		
90.0	6434.07	6336.97	6245.86	6149.24	6059.76	5949.29	5854.17	5737.54	5620.02		
112.5	6464.35	6396.58	6309.02	6241.90	6122.47	6052.93	5948.36	5843.20	5735.39		
135.0	6452.68	6374.29	6320.56	6251.02	6159.62	6043.06	5952.00	5862.65	5785.24		
157.5	6498.61	6401.48	6310.64	6226.32	6152.91	6037.25	5948.40	5817.84	5692.61		
180.0	6445.87	6353.11	6264.35	6193.98	6094.31	5969.85	5835.52	5702.66	5554.15		
202.5	6410.18	6331.71	6250.66	6174.94	6090.59	5983.14	5900.70	5800.11	5647.80		
225.0	6340.31	6270.09	6190.29	6112.21	6046.72	5927.81	5840.02	5740.91	5630.19		
247.5	6313.72	6248.78	6174.28	6072.17	5985.87	5886.97	5803.85	5690.35	5584.16		
270.0	6244.67	6140.11	6058.16	5973.28	5862.09	5781.12	5661.87	5553.09	5451.07		
292.5	6217.42	6155.21	6046.13	5981.77	5868.14	5765.27	5671.43	5533.96	5434.66		
315.0	6229.46	6132.50	6045.35	5965.35	5869.14	5769.91	5670.20	5574.23	5468.98		
337.5	6253.70	6158.43	6063.72	5974.22	5872.34	5759.81	5648.08	5529.49	5395.37		
360.0	6286.72	6169.01	6070.99	5980.54	5862.60	5739.12	5598.84	5450.64	5290.39		
C/ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	5116.82	4951.51	4792.67	4652.07	4547.69	4433.12	4276.48	4084.88	3875.39		
22.5	5310.56	5146.36	4982.10	4810.56	4642.91	4501.86	4373.69	4249.34	4096.54		
45.0	5521.04	5407.63	5289.55	5161.57	5019.35	4898.76	4753.88	4591.68	4412.80		
67.5	5518.38	5411.49	5288.73	5161.22	5046.46	4889.98	4754.89	4603.84	4449.38		
90.0	5506.11	5408.61	5299.22	5165.49	5022.73	4899.70	4743.95	4576.09	4425.53		
112.5	5619.12	5543.37	5406.43	5295.16	5177.08	5055.98	4922.02	4776.00	4617.99		
135.0	5660.17	5557.98	5452.23	5350.67	5251.76	5108.59	4983.77	4833.80	4661.98		
157.5	5530.01	5400.69	5269.95	5131.69	4989.26	4841.54	4684.65	4536.76	4408.66		
180.0	5426.25	5279.94	5142.44	4999.28	4878.96	4731.75	4595.44	4425.61	4255.17		
202.5	5481.47	5333.26	5201.15	5046.98	4915.26	4773.85	4630.66	4492.59	4336.01		
225.0	5555.05	5433.68	5337.03	5222.08	5097.88	4965.53	4841.26	4672.18	4500.61		
247.5	5466.86	5373.38	5247.47	5108.45	4995.49	4842.26	4682.97	4532.15	4393.54		
270.0	5331.29	5220.78	5098.60	4958.67	4816.77	4647.50	4496.07	4355.08	4208.88		
292.5	5323.52	5213.54	5109.12	4979.65	4860.46	4704.62	4550.48	4400.73	4236.75		
315.0	5356.96	5246.85	5122.92	4988.72	4854.32	4724.71	4588.02	4448.57	4287.68		
337.5	5268.31	5106.58	4919.49	4735.47	4586.03	4438.70	4316.15	4201.85	4069.32		
360.0	5116.82	4951.51	4792.67	4652.07	4547.69	4433.12	4276.48	4084.88	3875.39		

Equipment: GMS2200
Temperature(°C): 25

Date:
Humidity(%): 60%

Operator:
Distance(m): 13.72

LUMA Lighting

Intensity data(cd)										Page: 12 Total:16	
C/ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	3658.11	3472.24	3323.10	3182.37	2983.16	2793.84	2584.34	2437.31	2281.33		
22.5	3902.20	3702.28	3474.68	3280.12	3126.66	2989.90	2783.43	2594.98	2394.07		
45.0	4203.37	4002.74	3802.94	3606.03	3439.82	3285.17	3110.60	2891.40	2672.89		
67.5	4284.11	4130.78	3968.75	3819.25	3679.09	3544.98	3405.16	3249.80	3093.42		
90.0	4270.97	4133.83	4003.97	3866.10	3749.82	3597.61	3459.60	3300.68	3141.73		
112.5	4459.75	4284.05	4144.45	3979.58	3832.93	3687.45	3557.10	3414.91	3263.15		
135.0	4502.64	4339.46	4171.41	4000.41	3821.26	3634.80	3454.16	3257.01	3032.21		
157.5	4258.76	4073.44	3917.55	3756.36	3569.11	3389.02	3235.43	3034.72	2858.72		
180.0	4119.01	3966.96	3776.58	3600.39	3432.86	3241.13	3069.80	2915.81	2731.94		
202.5	4188.95	4006.33	3840.77	3695.41	3508.65	3335.74	3170.42	2981.16	2790.59		
225.0	4324.91	4161.80	3974.11	3802.85	3614.65	3434.72	3272.47	3089.83	2894.16		
247.5	4231.96	4078.36	3936.24	3804.96	3666.19	3531.26	3406.87	3253.39	3099.45		
270.0	4082.48	3953.29	3840.28	3691.81	3570.02	3434.72	3289.45	3127.89	2982.59		
292.5	4093.10	3956.35	3816.72	3675.47	3523.38	3402.86	3260.46	3102.14	2931.40		
315.0	4098.10	3905.71	3698.09	3492.30	3311.29	3136.91	2973.14	2802.07	2597.16		
337.5	3877.39	3669.53	3456.08	3249.58	3093.86	2957.96	2753.72	2563.33	2355.68		
360.0	3658.11	3472.24	3323.10	3182.37	2983.16	2793.84	2584.34	2437.31	2281.33		
C/ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	2120.08	1939.65	1789.09	1613.34	1449.21	1303.29	1115.39	958.86	825.52		
22.5	2253.83	2089.83	1921.71	1733.23	1589.28	1409.46	1237.02	1060.75	906.38		
45.0	2451.31	2261.52	2128.47	1961.60	1787.84	1620.31	1479.70	1310.10	1157.30		
67.5	2930.54	2757.39	2575.52	2414.64	2245.36	2062.47	1853.87	1639.67	1463.44		
90.0	2975.15	2818.75	2678.74	2524.02	2358.15	2155.07	1969.88	1813.84	1657.81		
112.5	3118.55	2951.13	2787.68	2606.77	2432.01	2252.63	2070.56	1878.07	1698.88		
135.0	2829.20	2649.32	2477.64	2292.47	2119.61	1945.27	1792.18	1639.08	1485.98		
157.5	2698.35	2527.82	2362.26	2185.75	2011.73	1869.83	1708.98	1548.13	1387.13		
180.0	2561.69	2394.82	2216.77	2082.11	1922.26	1759.63	1597.01	1434.30	1265.38		
202.5	2645.38	2456.69	2288.62	2112.79	1955.28	1787.58	1619.89	1452.37	1314.07		
225.0	2716.96	2548.17	2372.71	2199.25	2030.27	1864.58	1706.57	1548.55	1390.56		
247.5	2940.33	2784.21	2623.52	2456.85	2296.50	2102.29	1901.73	1722.98	1544.24		
270.0	2815.58	2654.26	2496.35	2307.90	2117.88	1948.69	1799.68	1659.47	1507.20		
292.5	2755.86	2579.11	2408.43	2257.60	2084.01	1888.86	1708.00	1525.89	1367.95		
315.0	2389.64	2199.14	2050.85	1913.71	1727.86	1549.01	1403.78	1264.31	1107.39		
337.5	2196.17	2058.07	1891.19	1702.40	1566.03	1392.97	1219.77	1051.69	876.50		
360.0	2120.08	1939.65	1789.09	1613.34	1449.21	1303.29	1115.39	958.86	825.52		
C/ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	692.61	559.70	437.83	321.17	208.92	136.18	101.86	64.04	38.94		
22.5	777.50	649.46	521.43	401.27	297.10	191.75	122.53	88.06	52.13		
45.0	1025.87	886.34	739.81	593.03	473.35	378.71	285.85	197.78	123.91		
67.5	1311.70	1168.66	1031.07	881.30	740.28	599.49	494.59	394.49	293.41		
90.0	1501.93	1354.98	1213.79	1048.58	900.41	772.27	650.24	515.67	392.19		
112.5	1519.69	1341.29	1185.45	1040.02	898.58	744.62	607.34	510.78	401.48		
135.0	1333.22	1198.71	1052.16	893.32	741.08	608.28	490.10	369.76	273.12		
157.5	1220.61	1042.86	860.46	710.69	566.69	437.79	325.75	214.61	143.32		
180.0	1090.91	910.60	763.36	622.21	483.23	355.76	245.22	165.99	116.17		
202.5	1151.83	985.42	815.65	677.64	538.98	410.00	294.59	196.34	135.66		
225.0	1234.73	1105.22	945.88	804.13	677.87	549.95	430.61	329.96	234.66		
247.5	1366.40	1226.56	1085.26	934.01	766.36	651.77	540.18	439.85	327.61		
270.0	1362.68	1217.47	1048.75	917.48	787.25	657.04	526.82	403.81	296.67		
292.5	1221.72	1091.49	945.29	809.43	673.80	538.18	423.64	321.70	232.91		
315.0	948.22	816.47	685.47	554.46	445.37	342.23	257.14	175.40	104.66		
337.5	742.40	608.72	500.82	386.51	280.71	180.89	116.60	84.26	50.48		
360.0	692.61	559.70	437.83	321.17	208.92	136.18	101.86	64.04	38.94		

LUMA Lighting

Intensity data(cd)										Page: 13 Total:16	
C/ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	33.22	32.15	31.16	30.29	21.07	3.74	1.08	0.97	0.66		
22.5	31.53	28.44	27.48	26.72	25.17	8.12	1.27	1.06	0.71		
45.0	77.70	45.08	23.42	19.80	18.66	17.00	5.88	1.33	0.92		
67.5	212.27	139.36	90.56	52.78	27.50	12.65	8.52	5.32	1.25		
90.0	291.46	214.35	156.03	106.38	72.07	42.56	18.72	5.28	1.33		
112.5	302.52	216.19	150.98	93.30	54.12	27.96	11.71	5.82	2.94		
135.0	187.90	120.31	72.42	39.96	23.31	18.73	14.24	9.12	0.97		
157.5	100.67	61.15	35.33	32.55	24.37	21.05	17.10	4.77	0.54		
180.0	78.22	45.88	36.94	29.08	24.24	21.21	16.42	2.51	0.43		
202.5	89.53	54.12	33.80	28.77	22.12	19.20	14.76	4.09	0.43		
225.0	160.58	101.46	60.56	31.20	20.49	16.14	12.91	7.33	0.70		
247.5	245.21	163.69	106.84	62.15	35.40	20.10	9.87	7.20	3.05		
270.0	219.55	154.56	104.88	67.23	40.17	20.90	8.13	2.32	1.04		
292.5	163.15	105.07	61.63	33.81	18.85	10.45	7.37	3.59	1.04		
315.0	65.00	39.64	23.39	20.07	18.71	17.00	5.43	1.14	0.83		
337.5	33.30	30.01	28.53	27.60	25.69	8.58	1.54	0.98	0.65		
360.0	33.22	32.15	31.16	30.29	21.07	3.74	1.08	0.97	0.66		
C/ (°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0		
0.0	0.62	0.57	0.54	0.51	0.51	0.51	0.51	0.51	0.51		
22.5	0.65	0.60	0.59	0.57	0.54	0.54	0.54	0.54	0.54		
45.0	0.75	0.67	0.65	0.65	0.62	0.62	0.62	0.62	0.67		
67.5	0.90	0.76	0.73	0.71	0.71	0.71	0.71	0.71	0.71		
90.0	1.33	1.30	1.44	1.47	1.58	1.85	1.99	2.28	2.45		
112.5	1.30	1.27	1.38	1.46	1.60	1.84	2.01	2.22	2.47		
135.0	0.73	0.75	0.75	0.81	0.89	0.97	1.08	1.24	1.43		
157.5	0.51	0.51	0.51	0.54	0.54	0.62	0.68	0.79	0.89		
180.0	0.35	0.32	0.32	0.33	0.38	0.43	0.54	0.60	0.70		
202.5	0.46	0.43	0.43	0.46	0.54	0.54	0.62	0.73	0.81		
225.0	0.70	0.67	0.73	0.76	0.81	0.89	1.02	1.13	1.30		
247.5	1.06	1.03	1.09	1.14	1.25	1.39	1.49	1.69	1.85		
270.0	0.77	0.68	0.68	0.65	0.65	0.62	0.62	0.62	0.65		
292.5	0.79	0.70	0.65	0.65	0.65	0.65	0.65	0.68	0.70		
315.0	0.68	0.62	0.59	0.59	0.59	0.59	0.59	0.59	0.62		
337.5	0.54	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51		
360.0	0.62	0.57	0.54	0.51	0.51	0.51	0.51	0.51	0.51		
C/ (°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0		
0.0	0.57	0.65	0.68	0.78	0.92	1.21	1.24	1.27	1.46		
22.5	0.65	0.78	0.86	1.08	1.27	1.27	1.66	1.70	1.70		
45.0	0.91	1.18	1.21	1.26	1.71	1.70	1.72	1.72	1.99		
67.5	0.73	0.73	1.16	1.25	1.70	1.71	1.79	2.11	2.09		
90.0	2.78	3.15	3.45	3.89	4.32	4.75	5.10	5.55	5.90		
112.5	2.76	3.11	3.42	3.98	4.36	4.75	5.17	5.56	5.93		
135.0	1.83	2.15	2.29	2.39	2.56	2.75	2.99	3.28	3.55		
157.5	1.06	1.24	1.41	1.54	1.79	1.90	2.06	2.31	2.52		
180.0	0.82	0.98	1.11	1.25	1.41	1.55	1.84	1.93	2.12		
202.5	0.98	1.11	1.27	1.47	1.70	1.84	1.95	2.14	2.30		
225.0	1.45	1.62	1.84	2.02	2.27	2.48	2.72	2.96	3.23		
247.5	2.04	2.26	2.51	2.75	2.99	3.26	3.51	3.78	4.07		
270.0	0.73	0.79	0.95	1.26	1.28	1.74	1.74	1.79	2.16		
292.5	0.76	0.84	1.13	1.19	1.38	1.70	1.70	1.94	2.05		
315.0	0.70	0.72	0.83	1.20	1.21	1.26	1.71	1.69	1.69		
337.5	0.54	0.65	0.70	0.84	0.92	1.26	1.27	1.27	1.30		
360.0	0.57	0.65	0.68	0.78	0.92	1.21	1.24	1.27	1.46		

LUMA Lighting

Intensity data(cd)									
Page: 14 Total:16									
C/ (°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	1.73	1.71	1.73	1.71	2.08	2.14	2.38	2.46	2.60
22.5	1.73	1.78	2.05	2.08	2.16	2.32	2.43	2.51	2.59
45.0	2.15	2.15	2.26	2.39	2.56	2.69	2.93	2.93	3.01
67.5	2.25	2.47	2.79	2.96	3.28	3.45	3.83	3.88	4.15
90.0	6.30	6.69	7.11	7.55	7.88	8.14	8.50	8.89	9.34
112.5	6.26	6.60	7.01	7.37	7.80	8.18	8.63	8.99	9.28
135.0	3.79	4.01	4.25	4.47	4.70	4.92	5.19	5.41	5.62
157.5	2.68	2.79	2.87	3.01	3.17	3.25	3.39	3.55	3.68
180.0	2.33	2.52	2.65	2.76	2.88	3.06	3.23	3.39	3.58
202.5	2.46	2.54	2.65	2.79	2.95	3.11	3.22	3.35	3.51
225.0	3.51	3.72	3.99	4.18	4.42	4.63	4.85	5.01	5.14
247.5	4.35	4.65	4.95	5.24	5.49	5.76	6.00	6.19	6.33
270.0	2.17	2.36	2.52	2.58	2.69	2.98	3.01	3.20	3.34
292.5	2.24	2.43	2.65	2.92	3.06	3.30	3.46	3.73	3.76
315.0	1.87	2.09	2.12	2.36	2.44	2.60	2.89	2.96	2.96
337.5	1.72	1.73	1.73	2.02	2.11	2.16	2.27	2.41	2.46
360.0	1.73	1.71	1.73	1.71	2.08	2.14	2.38	2.46	2.60
C/ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	2.92	2.95	2.98	3.03	3.17	3.33	3.33	3.38	3.54
22.5	2.84	2.94	2.95	2.95	2.95	2.95	2.97	3.23	3.35
45.0	3.22	3.28	3.34	3.44	3.55	3.84	3.88	3.85	3.88
67.5	4.23	4.37	4.42	4.61	4.69	4.70	4.72	4.96	5.13
90.0	9.78	10.13	10.45	10.76	11.19	11.65	11.93	12.27	12.46
112.5	9.53	9.77	9.93	10.09	10.26	10.45	10.64	10.96	11.29
135.0	5.75	5.83	5.94	5.91	5.91	5.91	5.91	5.97	6.08
157.5	3.84	4.01	4.12	4.41	4.74	5.06	5.12	5.29	5.74
180.0	3.82	4.06	4.26	4.47	4.69	4.90	5.12	5.40	5.71
202.5	3.73	3.95	4.17	4.47	4.79	5.14	5.43	5.71	5.95
225.0	5.30	5.33	5.41	5.41	5.41	5.47	5.55	5.68	5.79
247.5	6.44	6.60	6.65	6.73	6.79	6.87	6.90	6.95	7.04
270.0	3.52	3.93	4.25	4.45	4.69	4.70	4.70	4.70	4.75
292.5	3.87	4.00	4.14	4.19	4.33	4.51	4.73	4.71	4.71
315.0	2.96	2.96	2.98	3.01	3.19	3.30	3.41	3.76	3.87
337.5	2.62	2.97	2.98	3.00	3.08	3.24	3.33	3.76	3.89
360.0	2.92	2.95	2.98	3.03	3.17	3.33	3.33	3.38	3.54
C/ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	3.84	3.98	4.27	4.68	4.71	4.85	5.06	5.14	5.30
22.5	3.57	3.80	3.97	4.16	4.29	4.38	4.38	4.35	4.43
45.0	4.01	4.14	4.25	4.41	4.68	4.68	4.76	4.95	5.06
67.5	5.45	5.56	5.78	5.97	6.03	6.05	6.08	6.08	6.08
90.0	12.71	13.12	13.55	13.93	14.29	14.66	14.96	15.48	15.74
112.5	11.64	11.94	12.21	12.45	12.75	12.93	13.12	13.24	13.39
135.0	6.21	6.29	6.45	6.64	6.80	7.01	7.12	7.20	7.28
157.5	5.93	6.06	6.23	6.44	6.58	6.68	6.68	6.71	6.71
180.0	5.80	6.05	6.28	6.52	6.52	6.50	6.47	6.47	6.47
202.5	6.19	6.41	6.59	6.62	6.62	6.62	6.62	6.62	6.62
225.0	6.00	6.11	6.24	6.44	6.63	6.76	6.92	7.08	7.16
247.5	7.20	7.36	7.55	7.68	7.76	7.76	7.76	7.76	7.76
270.0	5.01	5.05	5.29	5.56	5.78	6.05	6.40	6.49	6.46
292.5	4.73	4.84	5.08	5.25	5.57	5.55	5.65	5.74	5.76
315.0	4.13	4.22	4.32	4.49	4.64	4.65	4.70	4.89	5.02
337.5	4.14	4.38	4.68	4.76	4.81	4.79	4.79	4.82	5.06
360.0	3.84	3.98	4.27	4.68	4.71	4.85	5.06	5.14	5.30

LUMA Lighting

Intensity data(cd)										Page: 15 Total:16
C/ (°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0	
0.0	5.49	5.70	5.92	6.14	6.38	6.68	6.82	7.17	7.28	
22.5	4.64	4.70	4.94	5.08	5.37	5.56	5.86	5.97	6.10	
45.0	5.06	5.14	5.49	5.57	5.89	6.16	6.35	6.67	6.91	
67.5	6.14	6.32	6.38	6.49	6.76	6.84	7.00	7.25	7.36	
90.0	15.99	16.24	16.48	16.50	16.50	16.53	16.47	16.33	16.03	
112.5	13.42	13.42	13.53	13.64	13.75	13.91	13.99	14.07	14.21	
135.0	7.44	7.52	7.66	7.77	7.87	7.96	8.12	8.28	8.44	
157.5	6.79	6.90	7.04	7.12	7.25	7.33	7.47	7.63	7.85	
180.0	6.50	6.66	6.85	7.04	7.26	7.47	7.67	7.88	8.04	
202.5	6.62	6.62	6.62	6.62	6.62	6.65	6.68	6.76	6.81	
225.0	7.22	7.30	7.43	7.51	7.62	7.76	7.92	8.13	8.29	
247.5	7.77	7.79	7.82	7.85	7.87	7.93	8.04	8.23	8.39	
270.0	6.46	6.49	6.49	6.59	6.78	6.95	7.32	7.33	7.33	
292.5	5.82	5.90	5.90	6.00	6.35	6.52	6.74	6.90	6.90	
315.0	5.05	5.13	5.24	5.53	5.56	5.75	5.99	6.33	6.55	
337.5	5.14	5.33	5.59	5.60	5.84	6.03	6.35	6.46	6.74	
360.0	5.49	5.70	5.92	6.14	6.38	6.68	6.82	7.17	7.28	
C/ (°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0	
0.0	7.44	7.63	7.74	7.85	8.01	8.12	8.12	8.12	8.31	
22.5	6.37	6.70	6.94	7.18	7.35	7.48	7.62	7.73	7.78	
45.0	7.24	7.35	7.59	7.64	7.75	8.02	8.16	8.32	8.42	
67.5	7.57	7.79	8.09	8.20	8.47	8.52	8.69	8.69	8.77	
90.0	15.55	15.06	14.57	14.11	13.71	13.52	13.49	13.52	13.54	
112.5	14.42	14.61	14.69	14.67	14.67	14.67	14.69	14.64	14.64	
135.0	8.63	8.82	9.06	9.28	9.63	10.00	10.38	10.80	11.07	
157.5	8.06	8.20	8.39	8.58	8.74	9.02	9.26	9.56	9.82	
180.0	8.15	8.28	8.42	8.64	8.64	8.63	8.55	8.55	8.55	
202.5	6.95	7.16	7.33	7.49	7.59	7.57	7.57	7.57	7.57	
225.0	8.54	8.76	9.07	9.35	9.64	9.91	10.10	10.17	10.20	
247.5	8.58	8.86	9.23	9.51	9.80	9.99	10.27	10.51	10.70	
270.0	7.36	7.38	7.01	6.66	6.25	5.95	5.78	5.73	5.75	
292.5	6.95	6.98	7.25	7.49	7.73	8.06	8.39	8.76	8.79	
315.0	6.80	7.09	7.20	7.44	7.60	7.68	7.82	8.08	8.06	
337.5	6.89	7.28	7.30	7.41	7.57	7.63	7.71	7.79	7.87	
360.0	7.44	7.63	7.74	7.85	8.01	8.12	8.12	8.12	8.31	
C/ (°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0	
0.0	8.39	8.47	8.66	9.19	9.82	10.68	11.49	12.06	12.49	
22.5	7.76	7.78	7.86	8.08	8.53	9.29	9.81	10.13	10.50	
45.0	8.42	8.42	8.45	8.53	8.91	9.07	9.34	9.50	9.79	
67.5	8.74	8.77	8.69	8.69	8.69	8.69	8.80	9.01	9.15	
90.0	13.60	13.73	13.73	13.82	13.95	14.01	14.11	14.33	14.49	
112.5	14.61	14.47	14.20	13.99	14.02	14.02	14.08	14.35	14.80	
135.0	11.37	11.69	11.94	12.20	12.58	12.95	13.20	13.47	13.62	
157.5	10.09	10.34	10.66	11.02	11.47	11.90	12.29	12.61	12.80	
180.0	8.56	8.77	8.85	8.94	9.18	9.54	9.84	10.93	11.70	
202.5	7.57	7.62	7.68	7.84	7.99	8.47	8.97	10.18	11.60	
225.0	10.28	10.37	10.48	10.72	11.06	11.12	11.15	11.44	11.80	
247.5	10.78	10.81	10.81	10.86	11.06	11.40	11.68	11.95	12.25	
270.0	5.99	6.37	6.77	7.35	7.87	8.29	8.55	8.98	9.12	
292.5	8.58	8.34	8.15	8.12	8.12	8.12	8.14	8.17	8.17	
315.0	8.09	8.09	8.01	8.03	8.09	8.40	8.85	8.97	9.27	
337.5	8.09	8.14	8.44	8.94	9.77	10.33	10.86	11.32	11.71	
360.0	8.39	8.47	8.66	9.19	9.82	10.68	11.49	12.06	12.49	

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Intensity data(cd)										Page: 16 Total:16	
C/ (°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0		
0.0	12.82	12.83	12.91	13.20	13.48	13.75	13.97	12.20	11.20		
22.5	10.70	11.02	11.21	11.43	11.78	12.26	11.93	11.32	10.79		
45.0	9.85	10.12	10.34	10.49	10.63	10.77	10.95	11.43	11.60		
67.5	9.37	9.42	9.53	9.85	9.88	10.23	10.72	11.18	11.59		
90.0	14.60	14.68	14.79	14.96	15.12	15.12	15.09	15.06	15.06		
112.5	15.21	15.34	15.40	15.37	15.53	15.53	15.50	15.10	14.96		
135.0	13.90	14.11	14.41	14.76	14.97	15.08	15.32	15.37	15.48		
157.5	13.05	13.37	13.66	13.78	14.04	14.23	14.27	14.50	14.61		
180.0	11.91	12.22	12.45	12.75	13.15	13.62	13.73	13.83	13.86		
202.5	12.05	12.63	13.04	13.54	13.79	13.92	13.97	14.05	14.11		
225.0	12.37	12.93	13.50	13.92	14.16	14.13	14.13	14.16	14.16		
247.5	12.60	12.87	13.15	13.37	13.66	14.04	14.31	14.37	14.63		
270.0	9.09	9.15	9.39	9.82	10.23	10.26	9.99	10.78	11.93		
292.5	8.20	8.33	8.54	9.09	9.55	10.01	10.70	11.85	12.66		
315.0	9.40	9.40	9.19	9.16	9.19	9.71	10.26	10.74	11.07		
337.5	12.16	12.55	12.93	13.25	13.47	13.50	11.46	10.72	10.56		
360.0	12.82	12.83	12.91	13.20	13.48	13.75	13.97	12.20	11.20		
C/ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0		
0.0	10.87	10.86	10.96	11.18	11.29	11.53	12.07	12.21	12.48		
22.5	10.78	10.78	10.81	11.18	11.50	11.65	12.00	12.13	12.13		
45.0	11.87	12.13	12.17	12.35	12.44	12.73	12.95	12.95	12.62		
67.5	11.73	12.05	12.38	12.60	12.79	12.90	12.90	12.73	12.41		
90.0	14.79	14.60	14.49	14.28	14.25	13.95	13.73	13.65	13.71		
112.5	14.96	14.85	14.69	14.45	14.39	14.11	13.69	13.61	13.64		
135.0	15.48	15.48	15.45	15.42	15.42	15.31	14.94	14.79	14.11		
157.5	14.58	14.64	14.58	14.44	13.89	13.47	13.28	12.92	12.31		
180.0	13.92	14.42	14.16	13.92	13.92	13.18	12.64	12.42	11.80		
202.5	14.17	15.24	15.35	14.46	14.17	13.40	12.54	12.40	11.95		
225.0	14.20	14.67	14.02	13.83	13.63	12.83	12.43	12.21	11.79		
247.5	14.61	14.61	14.00	13.47	13.43	13.11	12.92	12.56	12.22		
270.0	12.47	12.65	12.97	13.78	14.24	14.25	14.25	14.28	14.09		
292.5	13.24	13.69	14.09	14.28	14.29	14.31	14.56	14.56	14.48		
315.0	11.39	11.47	11.50	12.14	12.56	12.71	12.76	12.74	12.44		
337.5	10.71	10.71	10.71	11.11	11.39	11.68	11.98	12.01	12.04		
360.0	10.87	10.86	10.96	11.18	11.29	11.53	12.07	12.21	12.48		
C/ (°)	180.0										
0.0	12.74										
22.5	12.74										
45.0	12.74										
67.5	12.74										
90.0	12.74										
112.5	12.74										
135.0	12.74										
157.5	12.74										
180.0	12.74										
202.5	12.74										
225.0	12.74										
247.5	12.74										
270.0	12.74										
292.5	12.74										
315.0	12.74										
337.5	12.74										
360.0	12.74										