



LUMA Lighting

LumCAT:	Luminaire: FL23-300W-P540-D1-GLC-SSF
Report No: FL23-300W-P540-D1-GLC	Voltage(V): 0.000
Test No: JK lab 2016 0921	Current(A): 0.000
LampCAT: :	Power (W): 329.000
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): 42144.03
Lumens(lm)/Power(W): 128.10
Central intensity(cd): 15276.240
Maximum intensity(cd): 15341.430
Angle of maximum intensity: C=0.0 =1.0
Beam Angle(50% lmax): [C0__180]Left=56.3 Right=56.5
[C90__270]Left=56.3 Right=53.5
Field angle(10% lmax): [C0__180]Left=76.7 Right=76.5
[C90__270]Left=77.7 Right=73.1
Effective flux(lm): 41482.89
IES Nema Type : Type7H×7V

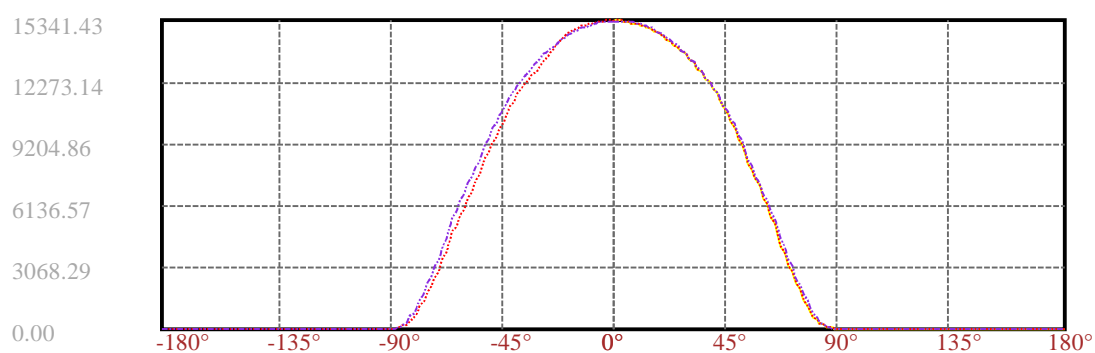
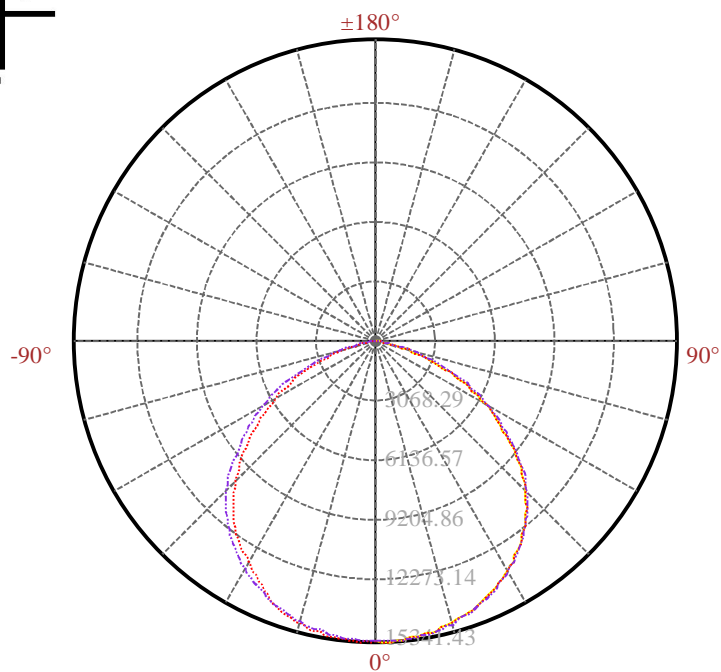
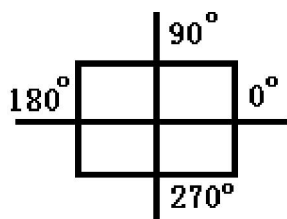
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Zonal flux distribution table 单位:lm

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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	0.1	0.3	0.8	1.7	3.0	4.6	5.9	6.7	6.8	6.0	4.7	3.0	1.7	0.9	0.4	0.2	0.0		46.8	
	-80	0.0	0.5	2.5	7.6	16.7	28.9	41.9	53.0	59.9	60.4	54.4	43.8	30.6	17.8	8.0	2.6	0.7	0.1		429.6	
	-70	0.1	1.6	8.4	25.0	50.8	81.4	113.1	138.6	152.6	153.8	141.8	117.7	86.3	54.3	26.8	9.0	1.7	0.1		1163.2	
	-60	0.2	3.4	18.0	49.2	91.0	138.6	185.8	221.1	240.4	242.1	226.3	194.2	147.8	98.4	53.1	19.4	3.7	0.2		1932.8	
	-50	0.3	5.9	29.3	74.2	131.3	196.2	255.7	300.8	322.0	322.1	302.4	263.6	208.5	141.5	80.1	31.7	6.3	0.3		2672.5	
	-40	0.4	8.5	40.2	96.0	166.1	241.4	305.6	356.4	380.3	379.8	357.4	314.9	254.0	177.9	104.0	43.5	9.2	0.4		3236.0	
	-30	0.5	10.9	49.1	112.4	191.3	271.7	339.6	394.0	420.2	420.0	396.2	349.7	284.8	204.6	121.6	53.1	11.8	0.6		3632.0	
	-20	0.6	12.7	55.1	123.3	207.9	292.5	364.2	419.8	446.1	445.9	421.7	372.5	304.8	222.1	133.5	59.7	13.7	0.7		3896.6	
	-10	0.6	13.6	58.0	128.4	215.7	302.5	376.7	433.2	458.3	458.8	433.9	384.2	315.0	230.5	139.3	62.9	14.7	0.7		4026.9	
	0	0.6	13.6	58.0	128.3	215.6	302.7	377.1	434.2	459.5	460.0	434.5	384.9	315.4	230.8	139.5	62.8	14.7	0.7		4033.0	
	10	0.6	12.7	55.0	123.1	207.6	293.2	366.1	422.9	448.5	448.9	422.8	374.1	305.9	223.1	133.8	59.6	13.7	0.7		3912.3	
	20	0.5	10.9	49.0	112.1	190.9	272.9	343.1	397.8	423.8	424.3	399.7	351.6	286.0	206.1	121.9	52.9	11.8	0.6		3655.8	
	30	0.4	8.4	40.2	95.8	166.3	242.6	308.2	358.7	383.9	384.6	362.0	316.8	254.8	179.2	104.0	43.1	9.2	0.5		3258.7	
	40	0.3	5.7	29.2	74.0	132.4	198.2	257.1	301.8	325.5	327.3	307.6	266.7	210.3	142.2	79.5	31.4	6.3	0.3		2696.0	
	50	0.2	3.3	17.7	49.0	90.8	139.4	186.3	221.9	242.7	244.9	228.4	195.2	147.7	97.2	52.2	19.3	3.7	0.2		1940.2	
	60	0.1	1.5	8.1	24.4	50.2	80.0	110.8	136.5	151.9	153.6	141.5	117.0	85.0	53.0	26.3	9.0	1.8	0.1		1150.8	
	70	0.0	0.5	2.3	7.2	15.9	27.5	39.6	50.6	58.5	59.4	53.1	42.4	29.6	17.5	8.2	2.8	0.7	0.1		415.9	
	80	0.0	0.1	0.3	0.7	1.5	2.6	4.1	5.5	6.4	6.6	5.9	4.7	3.1	1.9	1.0	0.5	0.2	0.0		45.1	
	90																					
Total	---	5.4	113.9	520.7	1231.5	2144.0	3115.4	3979.5	4652.8	4987.3	4999.2	4695.7	4098.7	3272.6	2299.7	1333.9	563.6	124.0	6.4		42144.1	

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



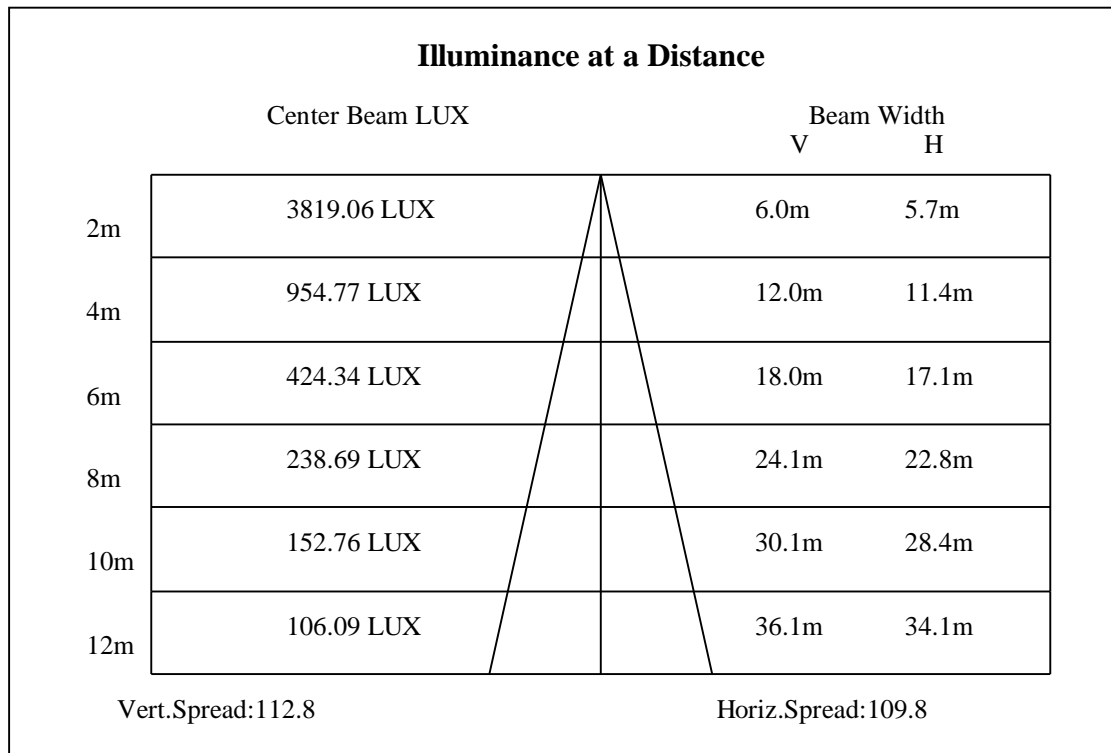
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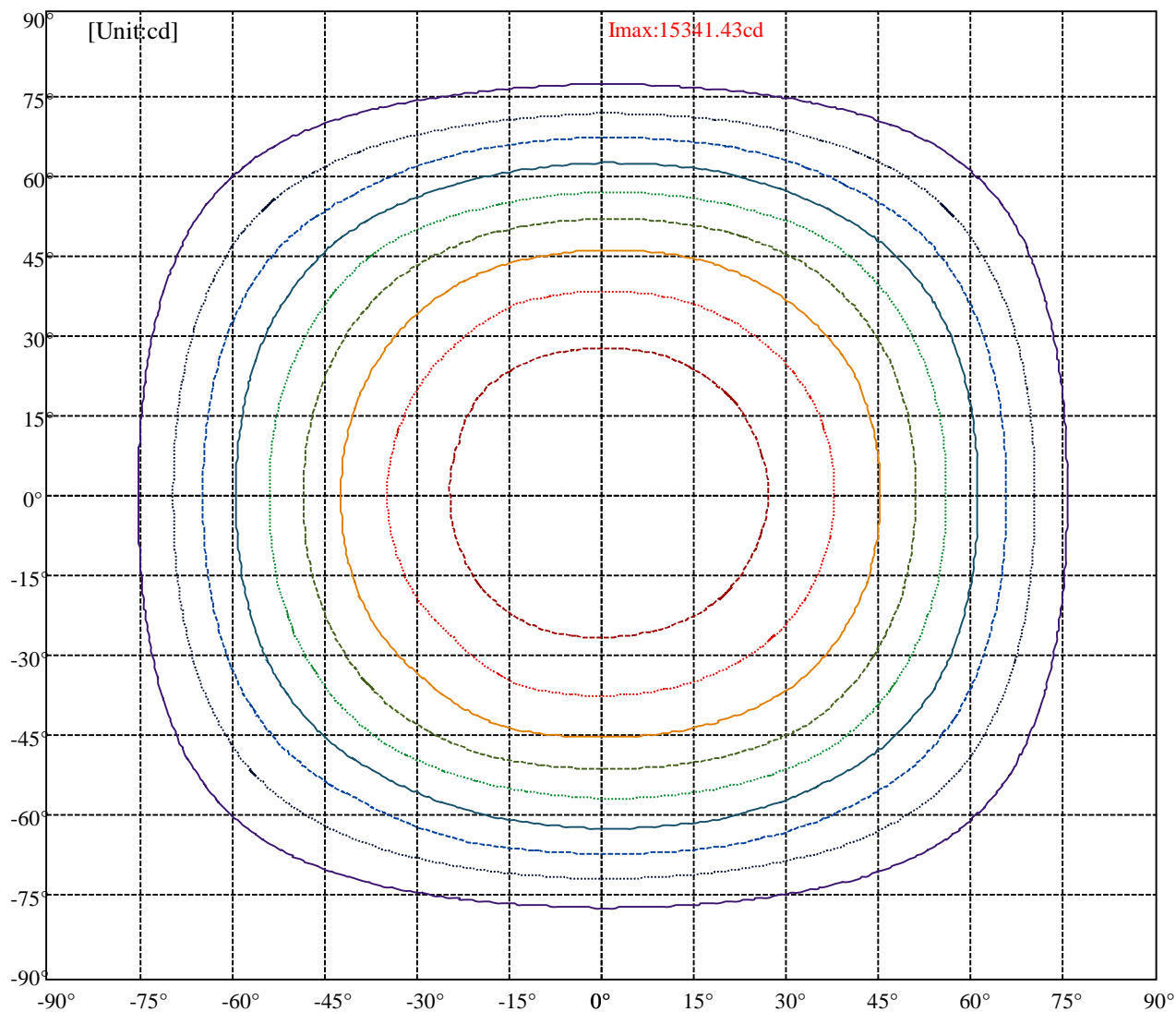
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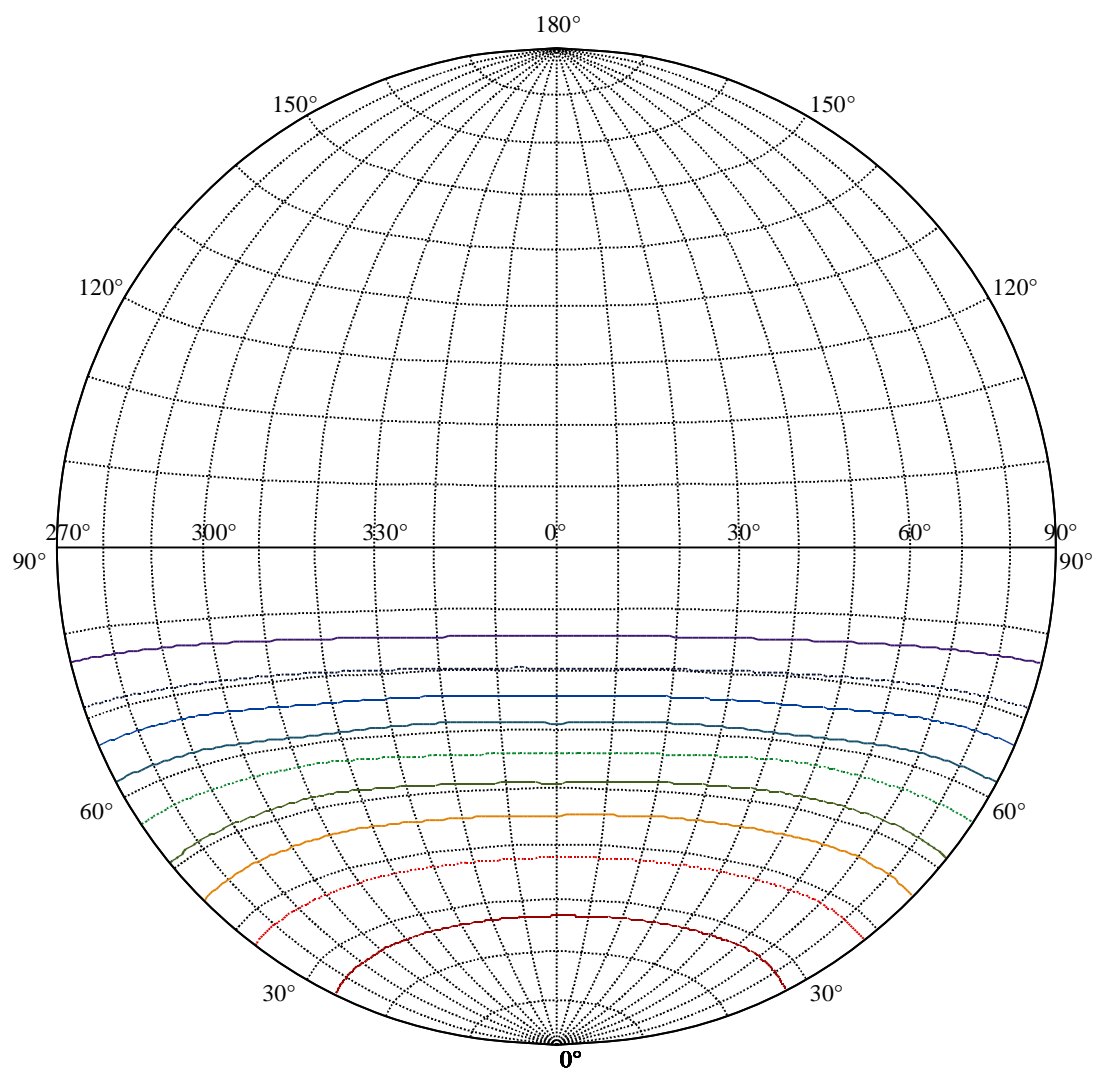
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C90/C270:



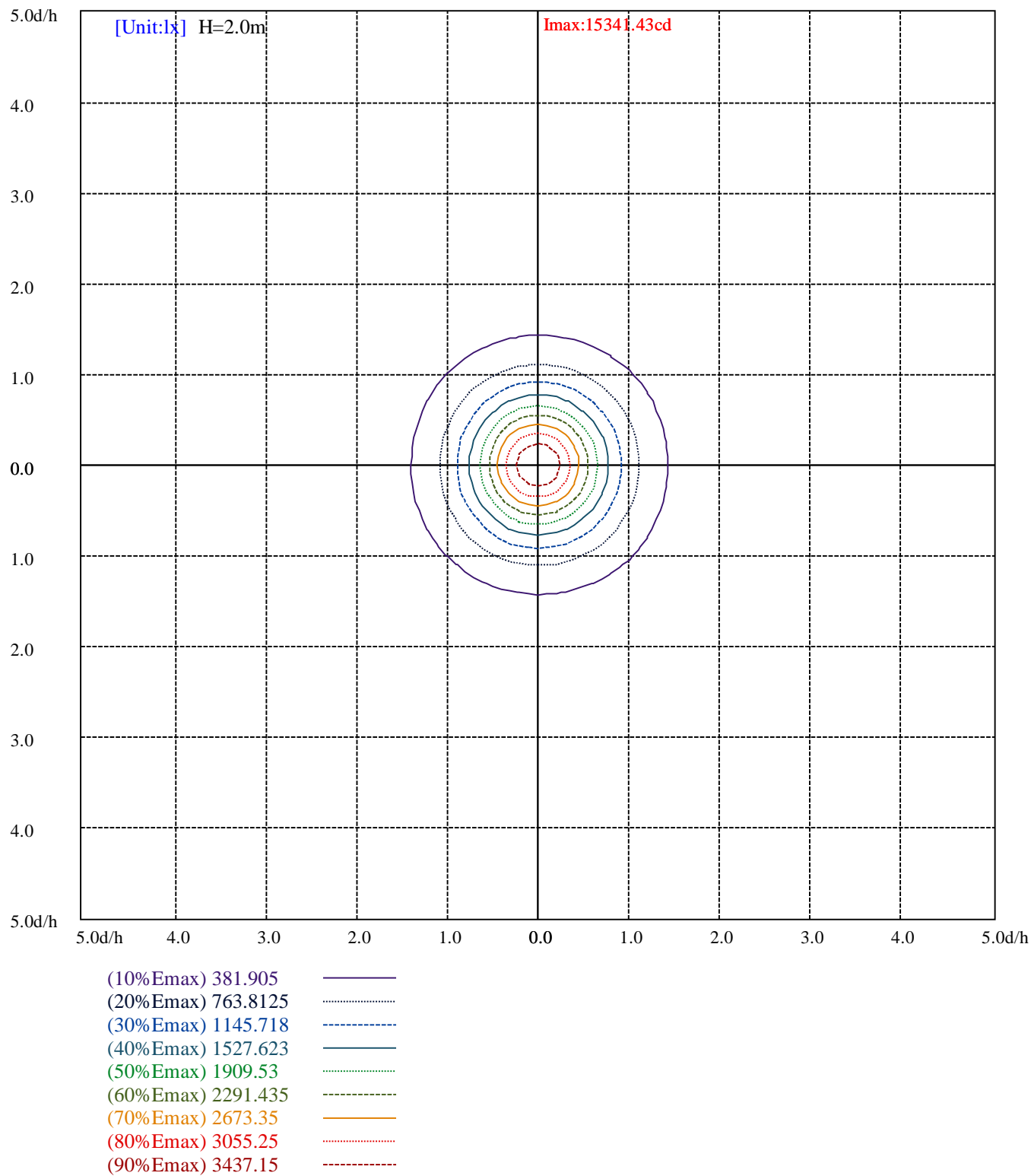


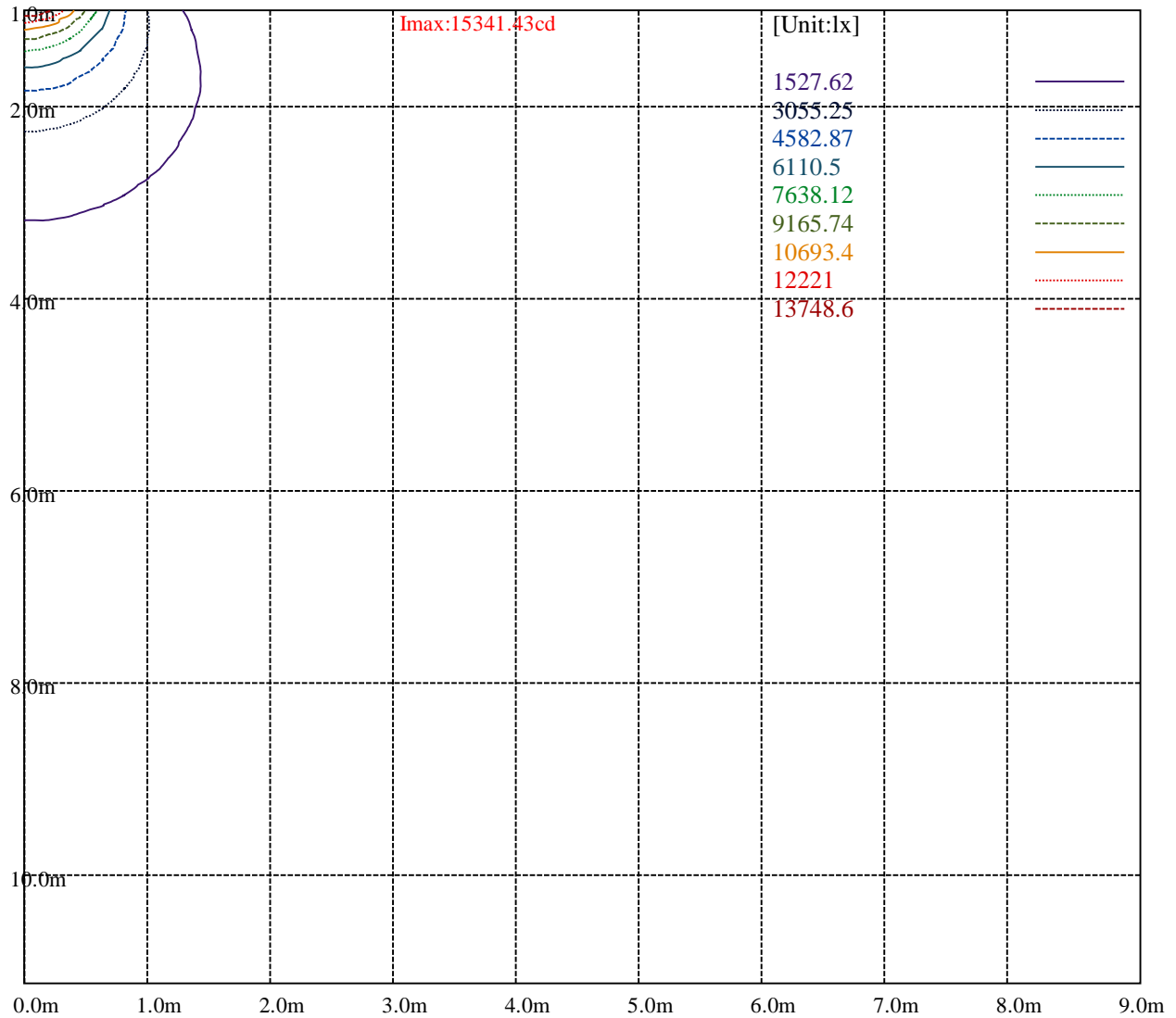
(10%Imax) 1534.14	—
(20%Imax) 3068.29	----
(30%Imax) 4602.43	- - - -
(40%Imax) 6136.57	—
(50%Imax) 7670.71	----
(60%Imax) 9204.86	- - - -
(70%Imax) 10739	—
(80%Imax) 12273.1	----
(90%Imax) 13807.3	- - - -



Imax:15341.43cd

(10% Imax)	1534.14	—
(20% Imax)	3068.29	---
(30% Imax)	4602.43	- - -
(40% Imax)	6136.57	—
(50% Imax)	7670.71	---
(60% Imax)	9204.86	- - -
(70% Imax)	10739	—
(80% Imax)	12273.1	---
(90% Imax)	13807.3	- - -





Luminance Table

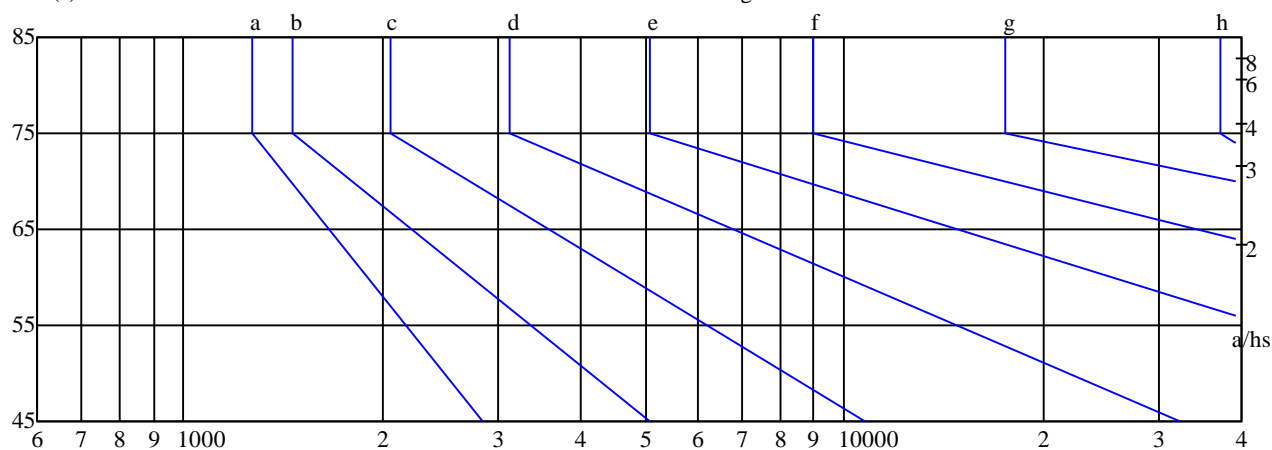
	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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)										Page: 10 Total:16	
C/ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0		
0.0	15276.24	15341.43	15311.33	15330.01	15281.05	15260.01	15254.83	15190.55	15178.34		
22.5	15276.24	15266.59	15261.68	15254.00	15224.56	15254.71	15231.08	15192.65	15192.74		
45.0	15276.24	15248.13	15260.58	15249.45	15260.69	15226.71	15221.74	15205.33	15180.94		
67.5	15276.24	15303.21	15296.32	15306.41	15280.24	15263.51	15223.23	15198.77	15203.42		
90.0	15276.24	15271.44	15290.10	15277.03	15279.04	15267.84	15214.17	15236.95	15214.07		
112.5	15276.24	15238.29	15267.03	15218.07	15239.81	15202.71	15180.55	15195.62	15146.63		
135.0	15276.24	15279.87	15237.38	15229.32	15243.82	15236.04	15211.53	15187.27	15183.88		
157.5	15276.24	15243.84	15253.75	15253.23	15227.89	15205.31	15202.64	15218.47	15142.26		
180.0	15276.24	15333.30	15300.40	15327.32	15234.83	15267.50	15222.43	15222.49	15191.29		
202.5	15276.24	15268.43	15263.18	15249.85	15218.88	15225.21	15204.53	15165.87	15123.65		
225.0	15276.24	15226.59	15195.62	15226.38	15193.72	15185.87	15147.82	15113.46	15096.76		
247.5	15276.24	15313.12	15297.87	15262.49	15265.21	15268.88	15228.26	15185.07	15140.82		
270.0	15276.24	15263.93	15228.76	15227.11	15218.47	15213.78	15204.75	15154.51	15119.15		
292.5	15276.24	15244.76	15235.93	15237.30	15201.73	15183.68	15177.77	15125.11	15090.42		
315.0	15276.24	15236.35	15275.36	15265.19	15201.80	15212.05	15212.36	15173.97	15149.32		
337.5	15276.24	15263.97	15269.61	15250.27	15218.26	15233.21	15208.52	15190.84	15160.17		
360.0	15276.24	15341.43	15311.33	15330.01	15281.05	15260.01	15254.83	15190.55	15178.34		
C/ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	15156.10	15120.48	15088.21	15077.70	14977.60	14948.27	14876.57	14783.34	14746.77		
22.5	15124.30	15099.98	15049.21	15051.68	14989.43	14904.80	14866.72	14814.05	14723.06		
45.0	15157.80	15104.06	15097.44	15019.94	14968.50	14918.44	14866.39	14808.19	14775.60		
67.5	15177.47	15139.07	15127.54	15051.54	14991.77	14971.29	14902.13	14831.46	14773.04		
90.0	15178.96	15137.39	15114.60	15036.37	15009.87	14926.62	14924.52	14865.54	14749.72		
112.5	15132.21	15096.34	15049.81	15000.48	14995.26	14940.83	14870.97	14795.97	14766.62		
135.0	15168.84	15113.40	15072.31	15020.03	14987.31	14945.92	14885.21	14834.67	14768.77		
157.5	15121.68	15120.27	15059.90	15021.29	14942.50	14910.68	14837.73	14801.41	14731.58		
180.0	15195.25	15138.26	15073.41	15037.45	15008.16	14948.26	14862.84	14828.76	14735.51		
202.5	15100.55	15054.57	15025.81	14962.83	14947.03	14874.42	14781.29	14740.88	14718.64		
225.0	15041.35	15020.23	14984.59	14941.53	14897.15	14831.75	14795.24	14737.58	14644.09		
247.5	15119.16	15060.52	15030.16	14998.93	14931.40	14902.38	14840.43	14759.99	14690.17		
270.0	15091.22	15012.56	14976.23	14938.09	14945.49	14866.92	14801.79	14741.10	14634.92		
292.5	15054.99	15028.83	15004.33	14962.57	14918.31	14852.65	14766.01	14735.74	14681.92		
315.0	15127.00	15083.88	15078.35	15005.28	14989.48	14932.19	14885.94	14824.45	14709.42		
337.5	15124.37	15102.87	15061.75	15001.22	14950.04	14879.24	14841.52	14791.52	14702.59		
360.0	15156.10	15120.48	15088.21	15077.70	14977.60	14948.27	14876.57	14783.34	14746.77		
C/ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	14653.86	14607.36	14532.26	14430.48	14339.71	14254.34	14136.73	14031.19	13951.19		
22.5	14672.23	14620.02	14537.92	14446.63	14332.23	14241.76	14200.53	14044.78	13933.19		
45.0	14668.59	14577.71	14498.64	14402.52	14311.65	14239.39	14158.92	14052.00	13946.16		
67.5	14718.57	14643.75	14572.70	14484.25	14398.51	14303.88	14198.24	14101.34	13965.90		
90.0	14691.45	14629.05	14556.87	14467.46	14361.55	14287.15	14177.08	14079.97	13977.07		
112.5	14706.79	14624.94	14508.36	14442.74	14358.79	14279.59	14168.62	14078.51	13953.24		
135.0	14687.74	14623.55	14560.22	14476.56	14352.62	14287.65	14171.33	14065.75	13970.04		
157.5	14675.71	14595.00	14487.80	14373.09	14212.20	14099.91	13995.29	13820.59	13695.40		
180.0	14689.00	14611.02	14463.33	14362.28	14222.49	14055.29	13909.40	13729.30	13569.12		
202.5	14633.03	14528.67	14445.55	14354.42	14235.43	14112.90	13930.85	13790.37	13628.71		
225.0	14580.28	14499.69	14426.07	14332.17	14221.92	14142.06	14043.05	13958.07	13790.34		
247.5	14610.30	14568.74	14469.88	14372.10	14282.71	14168.73	14075.72	13962.15	13863.38		
270.0	14571.19	14509.63	14425.80	14361.23	14245.57	14137.52	14038.25	13939.84	13847.48		
292.5	14582.50	14501.14	14417.80	14324.62	14239.72	14141.86	14056.37	13956.31	13865.87		
315.0	14676.95	14586.51	14512.50	14408.22	14313.78	14209.66	14085.06	14011.92	13910.90		
337.5	14637.98	14538.46	14483.33	14376.18	14295.35	14212.18	14090.93	13994.65	13892.71		
360.0	14653.86	14607.36	14532.26	14430.48	14339.71	14254.34	14136.73	14031.19	13951.19		

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	13814.32	13687.85	13581.69	13433.75	13303.13	13199.01	13002.21	12861.48	12733.43		
22.5	13823.89	13708.85	13586.24	13451.37	13332.39	13183.05	13042.24	12926.16	12753.42		
45.0	13868.08	13740.44	13597.55	13452.86	13317.55	13187.03	13024.24	12904.73	12768.08		
67.5	13880.19	13793.54	13676.42	13537.64	13412.85	13269.45	13118.62	12963.98	12813.89		
90.0	13852.21	13730.62	13619.47	13480.41	13338.31	13209.61	13059.21	12917.00	12766.69		
112.5	13867.01	13738.78	13633.46	13483.49	13323.84	13230.72	13087.83	12915.80	12777.05		
135.0	13813.94	13691.64	13527.46	13354.47	13178.22	12985.70	12799.17	12646.63	12421.52		
157.5	13503.79	13371.78	13189.01	13022.86	12863.50	12699.85	12567.30	12401.37	12255.78		
180.0	13405.77	13256.71	13096.52	12963.31	12793.87	12678.13	12552.54	12412.19	12221.50		
202.5	13471.22	13312.57	13143.34	12996.37	12841.68	12691.31	12528.39	12404.33	12241.23		
225.0	13677.80	13527.30	13339.57	13189.80	13026.94	12845.67	12664.62	12482.52	12282.60		
247.5	13767.52	13616.61	13476.98	13382.74	13240.89	13135.97	12978.25	12822.81	12673.05		
270.0	13716.78	13593.56	13471.92	13350.91	13213.33	13074.88	12895.22	12751.95	12604.31		
292.5	13739.11	13610.83	13499.94	13362.80	13212.37	13085.84	12934.42	12771.94	12631.11		
315.0	13769.63	13649.79	13526.29	13415.65	13285.96	13155.11	12994.08	12843.30	12671.38		
337.5	13776.96	13639.12	13522.63	13409.09	13265.27	13126.88	12993.49	12840.27	12692.30		
360.0	13814.32	13687.85	13581.69	13433.75	13303.13	13199.01	13002.21	12861.48	12733.43		
C/ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	12570.31	12390.68	12245.52	12074.46	11891.81	11674.42	11466.21	11236.61	11029.82		
22.5	12576.60	12418.55	12264.65	12089.43	11896.41	11706.16	11521.05	11318.05	11117.47		
45.0	12614.85	12428.14	12265.64	12065.24	11922.88	11717.12	11508.16	11316.44	11133.51		
67.5	12636.85	12499.65	12317.61	12145.12	11971.68	11778.55	11598.59	11386.50	11175.55		
90.0	12592.46	12429.78	12268.53	12100.52	11909.82	11718.18	11506.71	11286.29	11084.43		
112.5	12597.84	12427.93	12250.75	12062.41	11889.88	11703.66	11469.36	11260.80	11038.57		
135.0	12262.50	12071.61	11883.19	11693.96	11503.38	11308.52	11132.98	10945.67	10732.33		
157.5	12123.13	11951.29	11775.56	11581.44	11388.92	11168.13	10909.92	10662.72	10424.92		
180.0	12077.15	11872.72	11682.65	11490.05	11264.82	11054.71	10771.08	10535.84	10302.92		
202.5	12074.47	11893.83	11740.48	11547.74	11353.59	11145.15	10918.31	10691.67	10463.44		
225.0	12122.62	11906.56	11725.23	11546.70	11386.97	11187.49	10985.50	10816.67	10625.81		
247.5	12533.48	12354.03	12177.28	12010.47	11833.69	11661.00	11475.30	11262.82	11041.30		
270.0	12464.25	12300.18	12130.78	11939.75	11771.92	11553.45	11369.12	11150.44	10953.50		
292.5	12475.65	12313.17	12143.65	11979.34	11778.19	11614.44	11439.89	11238.76	11014.14		
315.0	12506.71	12349.08	12197.63	12035.37	11850.24	11668.71	11476.53	11306.46	11117.37		
337.5	12526.63	12382.51	12204.25	12042.74	11859.48	11668.30	11458.52	11274.39	11059.59		
360.0	12570.31	12390.68	12245.52	12074.46	11891.81	11674.42	11466.21	11236.61	11029.82		
C/ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	10793.86	10550.06	10291.44	10031.49	9780.03	9477.36	9171.85	8888.63	8541.04		
22.5	10893.11	10683.88	10433.01	10180.76	9928.48	9665.31	9384.36	9094.06	8774.60		
45.0	10907.47	10688.77	10460.15	10230.86	10005.82	9780.83	9523.13	9261.16	9003.64		
67.5	10978.61	10753.80	10525.73	10291.71	10043.29	9799.25	9506.39	9184.10	8866.95		
90.0	10867.40	10654.81	10401.51	10193.80	9918.99	9610.04	9333.92	9015.85	8681.72		
112.5	10786.99	10542.14	10308.04	10017.02	9773.92	9516.61	9254.58	8930.74	8633.06		
135.0	10541.88	10329.36	10097.82	9860.18	9587.18	9315.99	9039.45	8761.25	8474.56		
157.5	10195.56	9935.19	9695.28	9444.03	9186.83	8916.31	8622.53	8363.56	8047.37		
180.0	10052.90	9803.45	9548.54	9277.65	9019.66	8744.84	8462.99	8180.14	7909.95		
202.5	10209.59	9975.84	9716.45	9448.52	9194.71	8938.49	8642.09	8386.89	8101.18		
225.0	10436.32	10219.63	10028.92	9787.49	9544.38	9289.79	9007.73	8713.25	8405.38		
247.5	10811.68	10548.13	10317.55	10053.02	9777.53	9473.11	9163.06	8833.74	8504.17		
270.0	10716.33	10483.30	10237.71	9986.14	9694.91	9422.45	9112.31	8829.62	8534.98		
292.5	10818.49	10563.32	10342.23	10098.55	9838.18	9569.75	9282.93	9009.11	8689.26		
315.0	10904.88	10695.33	10464.31	10215.22	9987.55	9755.85	9481.15	9234.87	8947.27		
337.5	10834.59	10589.49	10342.25	10088.30	9851.01	9574.27	9300.45	9021.11	8699.94		
360.0	10793.86	10550.06	10291.44	10031.49	9780.03	9477.36	9171.85	8888.63	8541.04		

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	8204.06	7927.88	7643.34	7393.91	7123.76	6826.43	6513.89	6147.92	5810.91		
22.5	8448.94	8114.63	7788.31	7470.46	7181.13	6896.75	6613.34	6322.18	5982.74		
45.0	8720.19	8422.46	8086.13	7740.85	7402.06	7018.19	6620.10	6217.74	5840.00		
67.5	8532.82	8196.68	7862.38	7559.54	7285.28	6993.27	6703.67	6422.29	6126.39		
90.0	8370.04	8064.62	7798.68	7528.92	7249.26	6973.03	6681.80	6380.06	6084.93		
112.5	8277.09	7914.79	7594.20	7274.75	6969.93	6694.49	6424.69	6156.46	5871.25		
135.0	8164.43	7882.68	7588.28	7283.37	6927.00	6599.69	6248.89	5870.08	5511.88		
157.5	7767.91	7479.22	7202.30	6914.71	6623.19	6353.59	6065.98	5733.59	5438.86		
180.0	7625.70	7317.63	7035.40	6781.66	6500.86	6188.44	5908.24	5648.46	5369.33		
202.5	7806.86	7515.52	7220.79	6928.36	6626.85	6365.08	6083.81	5763.20	5463.54		
225.0	8104.81	7784.83	7468.26	7140.61	6799.51	6466.56	6091.91	5754.20	5448.30		
247.5	8191.38	7858.40	7573.53	7296.25	7012.55	6740.07	6473.98	6181.36	5928.85		
270.0	8276.41	8008.00	7745.51	7483.58	7213.82	6945.96	6670.62	6403.25	6117.65		
292.5	8399.97	8094.93	7828.01	7538.60	7262.90	6980.63	6688.64	6401.12	6130.51		
315.0	8637.40	8331.17	7992.51	7652.67	7307.42	6942.44	6556.41	6207.77	5847.20		
337.5	8394.57	8059.53	7733.77	7432.23	7156.41	6873.60	6593.38	6321.05	5994.45		
360.0	8204.06	7927.88	7643.34	7393.91	7123.76	6826.43	6513.89	6147.92	5810.91		
C/ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	5504.58	5207.82	4856.15	4475.27	4119.70	3800.16	3498.13	3155.73	2854.47		
22.5	5609.78	5250.88	4915.64	4580.57	4217.89	3866.42	3500.88	3189.62	2859.90		
45.0	5464.43	5122.89	4815.88	4512.88	4235.12	3924.69	3597.41	3279.13	2972.60		
67.5	5819.19	5491.84	5154.69	4807.07	4470.16	4140.67	3811.77	3442.92	3074.88		
90.0	5781.32	5473.97	5163.28	4838.77	4484.54	4120.22	3738.64	3402.44	3101.86		
112.5	5557.68	5258.96	4924.85	4580.73	4260.19	3934.08	3589.33	3220.73	2854.85		
135.0	5147.34	4800.76	4491.33	4222.29	3923.46	3638.62	3370.13	3085.91	2810.42		
157.5	5161.64	4865.51	4586.53	4274.46	3949.16	3609.93	3296.71	2976.50	2685.24		
180.0	5090.95	4815.00	4486.55	4161.13	3847.39	3513.78	3202.01	2905.15	2616.98		
202.5	5184.59	4895.69	4588.72	4281.39	3948.00	3621.47	3304.53	2991.11	2677.07		
225.0	5149.22	4810.91	4507.47	4226.21	3954.14	3658.02	3416.83	3132.70	2841.50		
247.5	5638.76	5363.34	5033.89	4716.31	4378.71	4024.86	3659.68	3302.17	2991.00		
270.0	5819.97	5508.03	5167.02	4814.18	4446.16	4081.16	3739.79	3431.67	3144.60		
292.5	5828.69	5522.53	5210.89	4865.81	4500.77	4149.52	3780.24	3407.69	3080.12		
315.0	5497.77	5172.91	4862.86	4591.83	4315.33	4011.62	3682.27	3345.07	3035.26		
337.5	5614.18	5264.79	4945.22	4623.13	4260.40	3905.80	3554.58	3237.98	2894.34		
360.0	5504.58	5207.82	4856.15	4475.27	4119.70	3800.16	3498.13	3155.73	2854.47		
C/ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	2574.93	2270.21	1954.56	1681.24	1429.81	1181.22	942.92	772.08	601.25		
22.5	2537.89	2243.95	1962.76	1690.08	1422.93	1174.01	956.50	780.87	606.42		
45.0	2620.57	2313.74	2017.48	1741.27	1491.20	1256.43	1054.69	852.18	681.65		
67.5	2738.29	2404.45	2107.82	1854.11	1602.15	1317.29	1118.45	936.61	762.45		
90.0	2796.97	2506.81	2235.76	1957.44	1679.11	1402.16	1179.54	938.05	743.63		
112.5	2548.48	2266.36	1996.95	1744.06	1491.17	1239.06	1028.25	848.93	673.59		
135.0	2518.74	2241.25	1950.37	1659.48	1371.17	1160.55	969.60	776.61	597.68		
157.5	2388.05	2090.22	1820.27	1550.31	1281.17	1056.08	870.34	686.31	537.51		
180.0	2336.93	2090.37	1828.40	1566.43	1305.42	1115.95	889.06	684.29	535.51		
202.5	2383.40	2076.87	1824.24	1571.61	1319.25	1094.22	907.37	716.42	560.04		
225.0	2543.78	2242.61	1948.12	1702.60	1457.08	1212.19	1013.69	800.97	634.54		
247.5	2693.47	2403.77	2119.20	1856.84	1594.49	1332.62	1107.04	907.26	740.32		
270.0	2848.54	2552.04	2253.40	1959.99	1702.61	1454.03	1194.30	975.02	798.30		
292.5	2766.72	2469.70	2190.37	1905.39	1646.04	1409.29	1193.51	959.52	784.68		
315.0	2709.11	2374.87	2064.27	1799.58	1535.38	1321.91	1086.41	875.76	687.51		
337.5	2573.96	2291.61	2002.88	1679.53	1414.26	1168.45	951.25	777.96	605.04		
360.0	2574.93	2270.21	1954.56	1681.24	1429.81	1181.22	942.92	772.08	601.25		

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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	430.42	323.71	238.58	171.66	124.99	88.78	53.00	35.72	7.99
22.5	431.97	324.61	238.25	169.49	122.47	87.49	56.38	32.25	7.75
45.0	511.93	371.31	265.71	181.28	115.06	66.80	41.58	23.32	9.62
67.5	588.47	414.50	289.17	193.84	115.80	67.85	38.94	14.70	5.50
90.0	575.60	426.40	292.97	197.31	118.81	72.11	45.26	16.30	3.81
112.5	522.01	386.36	265.42	169.11	98.49	52.97	28.14	11.28	4.12
135.0	454.53	320.60	221.88	148.10	86.23	44.00	23.50	12.70	5.47
157.5	399.28	289.81	196.46	131.13	85.73	56.62	33.91	12.83	8.56
180.0	409.45	301.98	210.48	147.40	96.06	63.04	31.33	13.27	7.56
202.5	415.24	308.53	218.26	152.93	101.08	66.28	33.37	12.92	7.77
225.0	482.26	341.30	249.40	167.50	107.75	64.05	34.03	12.09	6.54
247.5	574.99	428.33	296.64	192.63	112.57	58.98	28.45	12.45	4.52
270.0	623.00	447.70	314.76	193.53	112.20	56.55	27.83	8.66	2.91
292.5	612.05	439.41	306.86	194.83	105.56	52.62	23.36	10.42	4.62
315.0	499.76	352.79	240.46	156.85	97.67	56.33	32.44	18.97	8.13
337.5	432.12	313.32	224.58	154.04	106.59	76.38	48.59	32.18	7.67
360.0	430.42	323.71	238.58	171.66	124.99	88.78	53.00	35.72	7.99
C/ (°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	2.18	2.05	1.99	1.99	2.02	2.05	2.10	2.37	2.61
22.5	2.32	2.08	2.04	2.04	2.02	2.07	2.23	2.47	2.85
45.0	2.57	2.33	2.30	2.30	2.30	2.36	2.46	2.77	2.94
67.5	2.68	2.64	2.61	2.61	2.61	2.88	2.99	3.28	3.71
90.0	2.93	2.96	3.04	3.24	3.52	3.77	4.13	4.55	4.99
112.5	2.61	2.61	2.72	2.83	3.02	3.26	3.56	3.90	4.26
135.0	2.54	2.54	2.65	2.81	3.06	3.32	3.63	4.00	4.41
157.5	2.07	2.07	2.13	2.23	2.37	2.59	2.80	3.10	3.37
180.0	2.46	1.86	1.89	1.94	2.05	2.24	2.45	2.70	2.97
202.5	2.39	2.02	2.02	2.13	2.27	2.48	2.72	2.99	3.32
225.0	2.22	2.20	2.28	2.33	2.49	2.71	2.95	3.28	3.62
247.5	2.58	2.61	2.70	2.83	3.02	3.29	3.62	3.99	4.39
270.0	2.67	2.61	2.61	2.64	2.64	2.87	3.09	3.41	3.76
292.5	2.65	2.53	2.53	2.53	2.56	2.77	2.95	3.27	3.76
315.0	2.48	2.35	2.30	2.27	2.29	2.40	2.59	2.91	3.16
337.5	2.23	2.10	2.07	2.07	2.10	2.10	2.23	2.47	2.89
360.0	2.18	2.05	1.99	1.99	2.02	2.05	2.10	2.37	2.61
C/ (°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	2.88	3.07	3.36	3.80	4.06	4.33	4.63	5.03	5.44
22.5	3.01	3.25	3.49	3.73	4.03	4.43	4.81	5.21	5.53
45.0	3.26	3.48	3.79	4.09	4.52	5.00	5.43	5.85	6.28
67.5	3.93	4.33	4.75	5.24	5.72	6.29	6.73	7.18	7.61
90.0	5.49	6.01	6.61	7.19	7.73	8.36	8.99	9.65	10.25
112.5	4.67	5.09	5.63	6.16	6.71	7.28	7.84	8.36	8.84
135.0	4.85	5.29	5.70	6.05	6.52	7.04	7.65	8.36	8.96
157.5	3.72	4.07	4.44	4.68	4.95	5.25	5.74	6.25	6.73
180.0	3.29	3.61	3.89	4.18	4.52	4.88	5.34	5.74	6.20
202.5	3.69	4.07	4.45	4.85	5.25	5.59	5.98	6.40	6.83
225.0	4.00	4.36	4.75	5.17	5.60	6.06	6.59	7.11	7.62
247.5	4.88	5.40	5.93	6.50	7.03	7.63	8.19	8.79	9.44
270.0	4.17	4.59	5.03	5.53	6.02	6.52	7.15	7.63	8.24
292.5	4.06	4.54	4.98	5.40	5.89	6.41	6.99	7.53	8.08
315.0	3.48	3.81	4.15	4.59	4.98	5.42	5.85	6.31	6.77
337.5	3.04	3.35	3.76	3.95	4.21	4.57	4.91	5.10	5.46
360.0	2.88	3.07	3.36	3.80	4.06	4.33	4.63	5.03	5.44

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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	5.73	6.03	6.32	6.70	7.02	7.32	7.67	8.02	8.32		
22.5	5.80	6.07	6.39	6.69	6.93	7.18	7.36	7.58	7.69		
45.0	6.60	6.87	7.25	7.62	8.03	8.42	8.85	9.13	9.36		
67.5	8.22	8.85	9.55	10.27	10.95	11.43	11.97	12.49	12.89		
90.0	10.94	11.54	12.19	12.82	13.40	13.73	14.29	14.83	15.51		
112.5	9.27	9.85	10.47	11.08	11.79	12.47	13.29	13.86	14.38		
135.0	9.52	10.05	10.54	11.09	11.64	12.16	12.72	13.27	13.70		
157.5	7.02	7.32	7.53	7.75	8.02	8.21	8.53	8.82	9.17		
180.0	6.69	7.14	7.46	7.65	7.87	8.14	8.49	8.82	9.27		
202.5	7.16	7.40	7.51	7.72	7.88	8.05	8.48	9.10	9.52		
225.0	8.17	8.69	9.21	9.70	10.19	10.60	10.96	11.22	11.46		
247.5	10.10	10.79	11.47	12.26	13.00	13.71	14.47	15.11	15.57		
270.0	8.88	9.40	9.97	10.21	10.75	11.37	11.93	12.47	12.95		
292.5	8.72	9.29	9.97	10.61	11.31	11.92	12.36	12.77	13.17		
315.0	7.20	7.58	7.99	8.34	8.72	9.09	9.53	9.94	10.28		
337.5	5.64	5.94	6.32	6.61	6.88	7.17	7.50	7.63	7.64		
360.0	5.73	6.03	6.32	6.70	7.02	7.32	7.67	8.02	8.32		
C/ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0		
0.0	8.63	8.89	9.25	9.71	10.32	11.08	11.60	11.97	12.12		
22.5	8.01	8.20	8.81	9.52	10.15	10.46	10.67	11.34	11.59		
45.0	9.69	9.80	10.09	10.20	10.41	10.60	10.65	10.81	11.00		
67.5	13.29	13.64	13.78	14.04	14.18	14.48	14.96	15.48	15.95		
90.0	16.09	16.50	16.87	17.11	17.51	17.89	18.22	18.59	18.81		
112.5	14.85	15.26	15.60	15.85	16.12	16.33	16.55	17.00	17.58		
135.0	13.99	14.31	14.31	14.29	14.29	14.21	14.18	14.15	14.18		
157.5	9.44	9.63	9.98	10.56	11.28	11.95	12.24	12.52	13.26		
180.0	9.78	10.26	10.72	11.13	11.56	11.97	12.41	13.04	13.69		
202.5	9.90	10.25	10.63	11.25	11.92	12.71	13.36	13.91	14.48		
225.0	11.73	11.89	12.00	12.07	12.13	12.18	12.34	12.54	12.91		
247.5	15.99	16.45	16.72	16.99	17.15	17.34	17.56	17.91	18.18		
270.0	13.41	14.02	14.46	14.76	14.98	15.19	15.35	15.65	16.00		
292.5	13.26	13.63	13.80	14.04	14.39	14.68	15.11	15.65	16.14		
315.0	10.56	10.69	10.94	11.23	11.53	11.86	12.15	12.56	13.19		
337.5	7.66	8.01	8.79	9.39	10.16	10.59	11.20	11.89	12.54		
360.0	8.63	8.89	9.25	9.71	10.32	11.08	11.60	11.97	12.12		
C/ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0		
0.0	12.56	12.97	13.33	13.43	13.62	13.73	13.71	13.87	14.05		
22.5	11.96	12.37	12.82	13.20	13.62	13.71	13.82	14.03	14.12		
45.0	11.00	11.19	11.48	11.78	12.07	12.34	12.61	12.77	13.11		
67.5	16.49	17.10	17.70	18.30	18.83	19.06	19.55	19.65	19.68		
90.0	19.07	19.70	20.35	20.96	21.67	22.22	22.79	23.36	23.75		
112.5	18.13	18.76	19.38	19.94	20.62	21.25	21.90	22.23	22.36		
135.0	14.15	14.29	14.62	14.97	15.41	15.93	16.46	17.00	17.53		
157.5	13.77	14.12	14.44	14.80	15.08	15.33	15.43	15.43	15.52		
180.0	14.03	14.39	14.84	15.08	15.05	15.03	15.03	15.05	15.03		
202.5	15.04	15.41	15.68	15.90	16.28	16.73	17.00	17.27	17.51		
225.0	13.23	13.52	13.79	13.97	14.22	14.43	14.64	14.83	15.07		
247.5	18.78	19.65	20.36	20.88	21.43	21.62	21.62	21.56	21.46		
270.0	16.50	17.05	17.79	18.33	19.10	19.65	20.03	20.25	20.31		
292.5	16.62	17.13	17.74	18.07	18.32	18.16	17.92	17.89	17.84		
315.0	13.61	13.77	13.88	13.96	14.15	14.18	14.49	14.69	14.83		
337.5	13.20	13.91	14.43	14.72	14.97	15.39	15.38	15.41	15.51		
360.0	12.56	12.97	13.33	13.43	13.62	13.73	13.71	13.87	14.05		

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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	14.30	14.56	14.70	14.97	15.58	16.39	17.11	17.53	17.61	
22.5	14.43	14.71	15.08	15.51	15.86	16.24	16.59	16.64	16.73	
45.0	13.33	13.62	14.02	14.56	15.21	15.74	16.24	16.85	17.59	
67.5	19.68	19.73	19.71	19.70	19.70	19.70	19.70	19.73	19.78	
90.0	24.02	24.31	24.64	24.89	25.15	25.31	25.36	25.14	24.63	
112.5	22.36	22.36	22.44	22.44	22.44	22.44	22.44	22.44	22.44	
135.0	17.91	18.21	18.45	18.81	19.10	19.40	19.61	19.96	20.38	
157.5	15.68	15.98	16.45	17.00	17.52	18.10	18.53	18.86	19.20	
180.0	15.19	15.35	15.71	16.25	17.04	18.46	19.84	21.35	22.35	
202.5	17.75	17.78	17.86	18.10	18.37	18.73	19.13	19.54	20.12	
225.0	15.34	15.56	15.77	16.07	16.41	16.82	17.28	17.83	18.35	
247.5	20.94	20.56	20.40	20.38	20.40	20.41	20.63	20.86	21.08	
270.0	20.49	20.55	20.57	20.95	20.95	21.06	21.51	21.49	21.49	
292.5	17.86	17.94	18.31	18.77	18.96	19.29	19.66	19.72	19.77	
315.0	15.01	14.99	14.99	14.99	15.30	15.52	15.99	16.49	17.11	
337.5	15.75	15.96	16.18	16.48	16.69	17.07	17.40	17.61	18.08	
360.0	14.30	14.56	14.70	14.97	15.58	16.39	17.11	17.53	17.61	
C/ (°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0	
0.0	17.90	18.12	18.47	18.89	18.90	19.01	19.23	19.25	19.36	
22.5	17.08	17.64	18.29	18.82	19.22	19.68	19.76	20.03	20.09	
45.0	18.16	18.72	19.08	19.49	19.78	20.05	20.37	20.45	20.45	
67.5	19.76	19.76	19.76	19.94	20.11	20.30	20.27	20.27	20.24	
90.0	23.89	22.97	22.13	21.60	21.60	21.63	21.74	22.12	22.63	
112.5	22.41	22.41	22.41	22.38	22.38	22.03	21.76	21.44	21.12	
135.0	20.85	21.37	21.78	22.10	22.58	22.66	22.74	22.74	22.71	
157.5	19.50	19.68	19.82	19.87	20.14	20.41	20.76	20.98	21.19	
180.0	23.13	24.47	25.10	25.33	25.07	25.29	25.44	25.27	24.46	
202.5	20.91	21.75	22.54	22.50	22.29	21.73	21.51	21.50	20.62	
225.0	18.87	19.39	19.90	20.30	20.78	20.93	20.91	20.88	20.88	
247.5	21.45	22.10	22.81	23.42	23.94	24.26	24.44	24.40	24.01	
270.0	21.49	21.09	20.52	19.67	18.70	17.73	17.20	17.03	17.10	
292.5	19.72	19.53	19.53	19.53	19.53	19.74	19.72	19.80	19.88	
315.0	17.68	18.30	19.02	19.69	20.26	20.68	20.85	21.06	21.07	
337.5	18.52	18.84	19.11	19.32	19.59	19.86	20.11	20.43	20.57	
360.0	17.90	18.12	18.47	18.89	18.90	19.01	19.23	19.25	19.36	
C/ (°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0	
0.0	19.34	19.33	19.33	19.36	19.49	19.71	19.74	20.16	20.51	
22.5	20.09	20.12	19.98	19.85	19.85	19.90	20.29	20.55	20.55	
45.0	20.43	20.21	20.18	20.32	20.61	20.98	21.41	21.70	22.20	
67.5	20.14	19.79	19.62	19.60	19.68	19.92	20.16	20.54	20.91	
90.0	23.13	23.18	23.18	23.24	23.32	23.56	23.84	24.42	24.72	
112.5	20.89	20.44	19.87	19.37	19.24	19.21	19.52	20.40	21.72	
135.0	22.58	22.55	22.53	22.55	22.58	22.64	22.72	22.77	22.90	
157.5	21.46	21.93	22.51	23.05	23.72	24.64	25.36	26.06	26.60	
180.0	23.51	22.58	21.79	20.97	20.71	20.71	20.74	20.76	20.95	
202.5	20.06	19.22	18.46	18.07	17.75	17.64	17.35	17.35	17.65	
225.0	20.85	20.83	20.83	20.72	20.56	20.59	20.56	21.00	21.33	
247.5	23.36	22.31	21.45	20.58	20.00	20.00	19.97	20.00	20.03	
270.0	17.42	17.85	18.49	19.50	20.33	20.96	21.48	21.70	22.35	
292.5	19.85	19.85	19.70	19.61	19.59	19.59	19.32	19.21	19.08	
315.0	21.09	21.07	21.09	20.99	20.72	20.74	20.72	20.95	21.14	
337.5	20.57	20.59	20.43	20.38	20.38	20.33	20.38	20.51	20.44	
360.0	19.34	19.33	19.33	19.36	19.49	19.71	19.74	20.16	20.51	

LUMA Lighting

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	20.71	20.95	21.41	21.91	22.74	23.75	24.91	26.06	26.89	
22.5	20.55	20.76	21.21	21.79	22.85	23.89	24.92	26.33	27.29	
45.0	22.45	22.67	23.02	23.60	24.29	25.12	25.70	26.39	26.87	
67.5	21.13	21.51	21.88	22.41	22.69	23.07	23.74	25.31	26.64	
90.0	24.99	25.31	25.66	26.05	27.33	27.71	27.98	28.62	29.32	
112.5	23.04	23.81	24.36	25.03	26.43	26.99	27.31	27.80	28.55	
135.0	22.99	23.23	23.45	23.86	24.42	24.98	25.93	26.86	27.77	
157.5	27.08	27.59	27.78	28.13	28.95	29.58	30.12	30.33	30.55	
180.0	20.95	21.03	21.10	21.57	22.89	23.86	24.73	25.58	26.49	
202.5	18.36	19.05	19.76	20.90	22.54	22.62	23.46	24.44	25.40	
225.0	21.96	22.57	23.07	22.41	22.39	23.85	24.79	25.58	26.61	
247.5	20.08	20.19	20.27	20.69	21.70	23.11	24.13	24.58	26.95	
270.0	22.43	22.75	23.07	23.67	24.40	24.45	23.92	25.06	26.70	
292.5	19.07	19.05	19.31	20.17	20.80	21.40	21.97	23.36	24.67	
315.0	21.62	21.63	22.09	22.99	24.02	24.97	25.77	26.47	27.21	
337.5	20.46	20.57	21.16	22.01	22.87	23.63	24.24	24.93	25.64	
360.0	20.71	20.95	21.41	21.91	22.74	23.75	24.91	26.06	26.89	
C/ (°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0	
0.0	27.08	27.49	28.03	28.14	28.27	28.46	28.65	28.63	28.52	
22.5	27.83	28.17	28.42	28.91	29.17	29.45	29.79	30.00	30.06	
45.0	27.01	27.17	27.31	27.64	27.79	27.76	27.79	27.76	27.42	
67.5	27.02	27.13	27.32	27.46	27.48	27.51	27.89	27.97	27.73	
90.0	29.23	28.78	28.78	28.46	28.48	28.48	28.48	28.48	28.94	
112.5	29.00	28.76	28.68	28.54	28.49	28.38	28.36	28.36	28.61	
135.0	27.98	28.28	28.28	28.61	29.01	28.93	28.87	28.24	27.54	
157.5	30.69	31.11	31.31	31.89	32.18	31.83	31.53	30.86	29.86	
180.0	27.38	28.16	28.78	29.52	30.35	30.59	30.56	30.36	29.26	
202.5	26.24	27.16	28.06	30.19	30.66	30.65	30.38	29.69	28.66	
225.0	27.63	28.74	30.92	31.47	32.10	32.09	31.86	31.25	30.29	
247.5	27.94	28.19	28.40	28.54	29.27	28.77	28.42	28.23	27.49	
270.0	27.77	28.20	28.93	30.34	30.89	30.90	30.90	30.77	30.35	
292.5	25.33	26.00	26.12	26.42	26.76	27.01	27.11	27.36	27.44	
315.0	27.79	28.14	28.36	29.03	29.49	29.73	29.74	29.74	29.74	
337.5	26.19	26.64	27.15	28.09	28.44	28.76	28.74	29.22	29.15	
360.0	27.08	27.49	28.03	28.14	28.27	28.46	28.65	28.63	28.52	
C/ (°)	180.0									
0.0	28.39									
22.5	28.39									
45.0	28.39									
67.5	28.39									
90.0	28.39									
112.5	28.39									
135.0	28.39									
157.5	28.39									
180.0	28.39									
202.5	28.39									
225.0	28.39									
247.5	28.39									
270.0	28.39									
292.5	28.39									
315.0	28.39									
337.5	28.39									
360.0	28.39									