

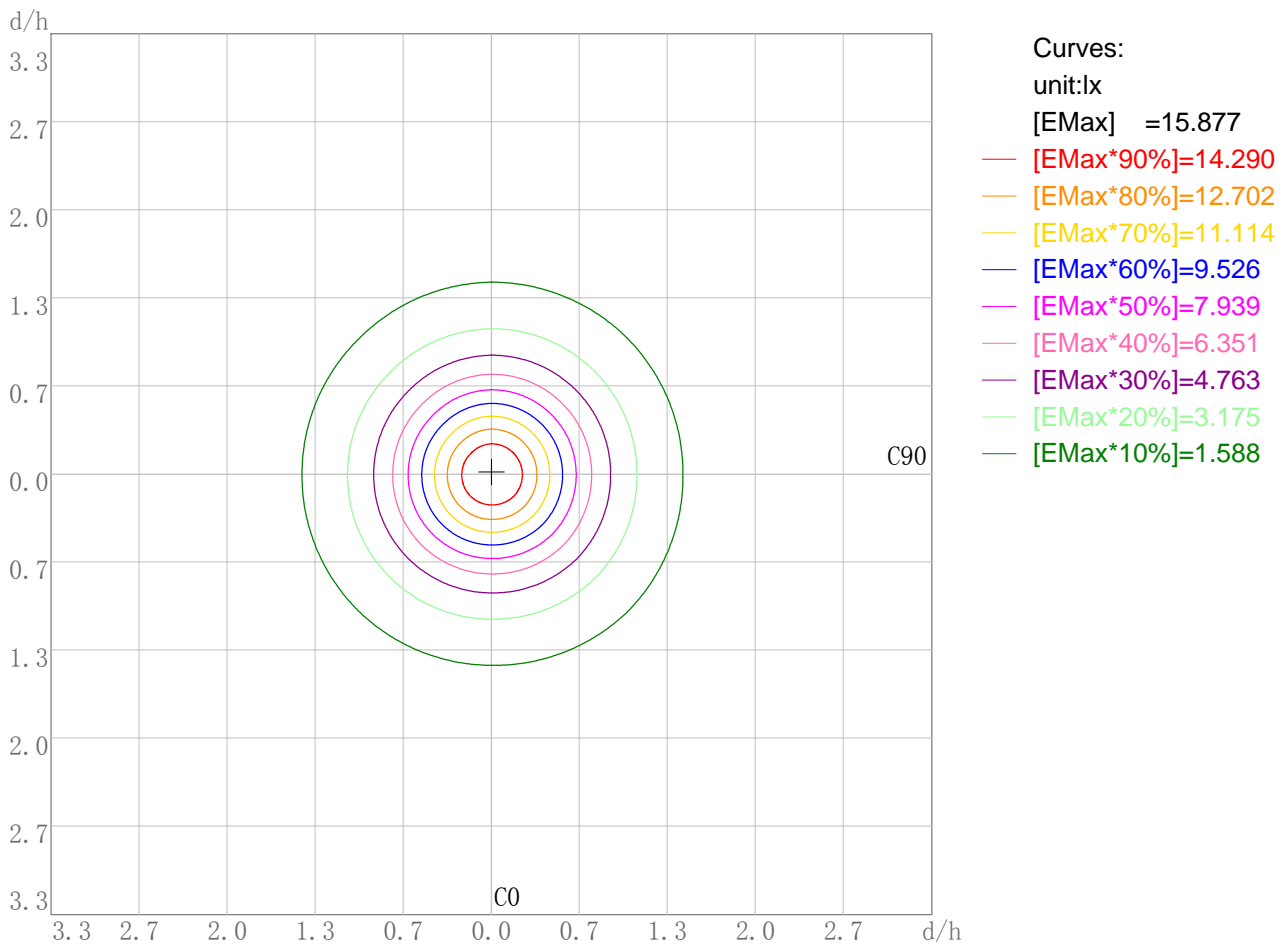
IES Indoor Report

Photometric Filename:TPR-FL-ENCORE-3000K-S .IES

Plane ISO-Illuminance Diagram

Lum. Name: TPR-FL-ENCORE-3000K-S	Lum. Catalog:	Test ID: 001
Lamp Name: LED	Lamp Catalog:	Test Lab: LAB001
Manufacture: TPR ENTERPRISES, LTD.	Test Machine:GON-2000	Test Date: 2018/11/19

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 15.88

Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

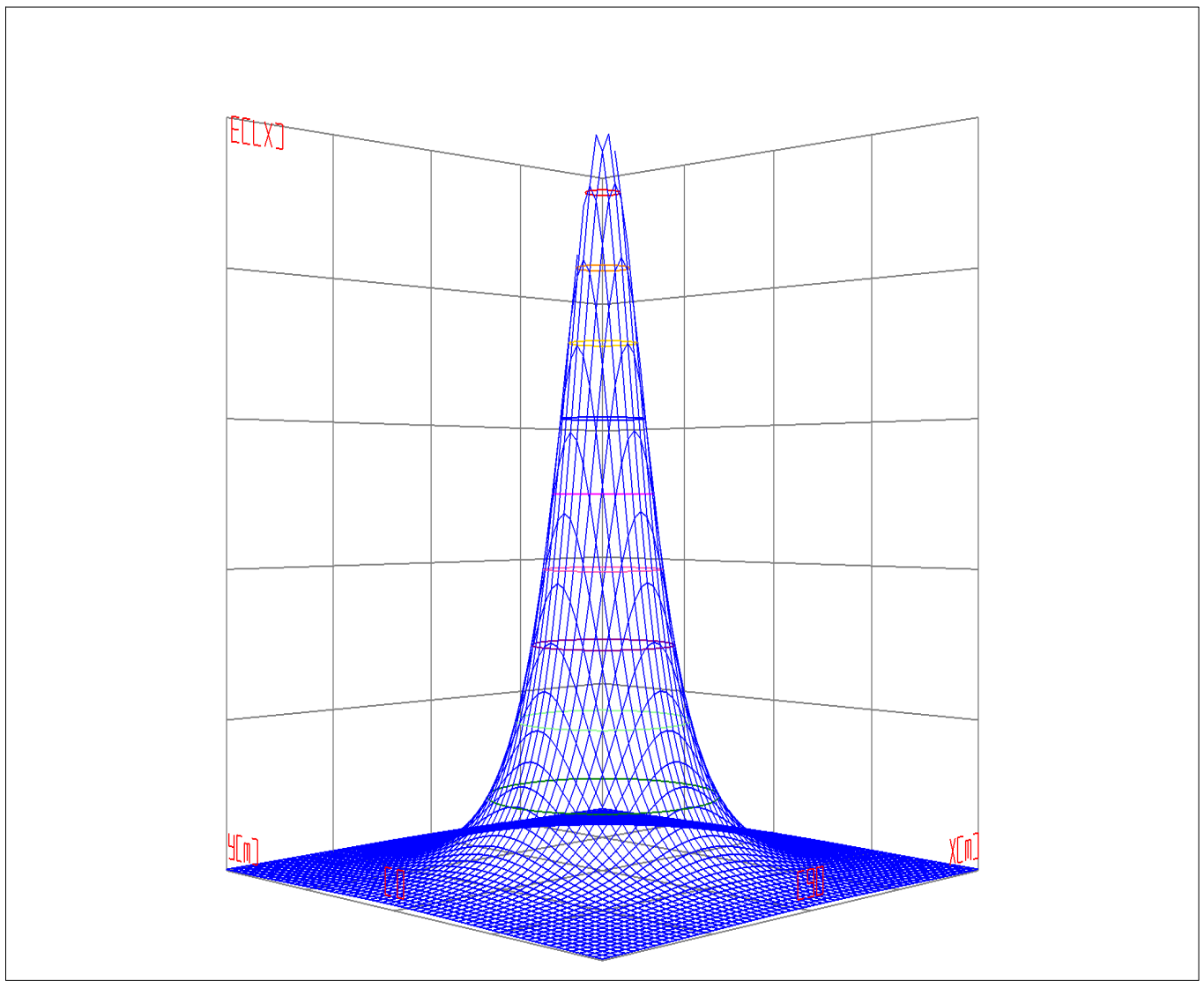
IES Indoor Report

Photometric Filename: TPR-FL-ENCORE-3000K-S.IES

3D Plane ISO Illuminance Diagram

Lum. Name: TPR-FL-ENCORE-3000K-S	Lum. Catalog:	Test ID: 001
Lamp Name: LED	Lamp Catalog:	Test Lab: LAB001
Manufacture: TPR ENTERPRISES, LTD.	Test Machine: GON-2000	Test Date: 2018/11/19

3D Plane Illuminance Modal



Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

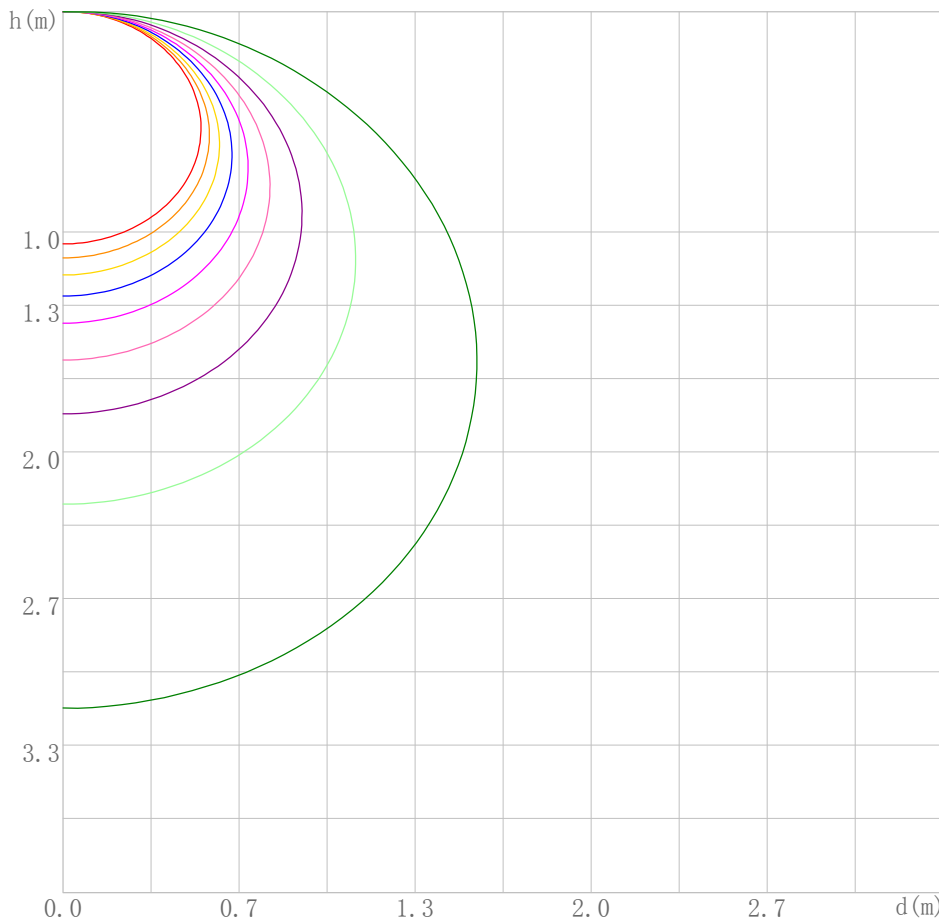
IES Indoor Report

Photometric Filename:TPR-FL-ENCORE-3000K-S.IES

Space ISO Illuminance Diagram

Lum. Name: TPR-FL-ENCORE-3000K-S	Lum. Catalog:	Test ID: 001
Lamp Name: LED	Lamp Catalog:	Test Lab: LAB001
Manufacture: TPR ENTERPRISES, LTD.	Test Machine:GON-2000	Test Date: 2018/11/19

Space ISO Illuminance Curve



- Curves:
[Unit: lx]
[EMax] =142.857
- [EMax*90%]=128.571
 - [EMax*80%]=114.285
 - [EMax*70%]=100.000
 - [EMax*60%]=85.714
 - [EMax*50%]=71.428
 - [EMax*40%]=57.143
 - [EMax*30%]=42.857
 - [EMax*20%]=28.571
 - [EMax*10%]=14.286

Space Plane Maximum Illuminance and @Angle:142.86lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:142.922cd,0deg

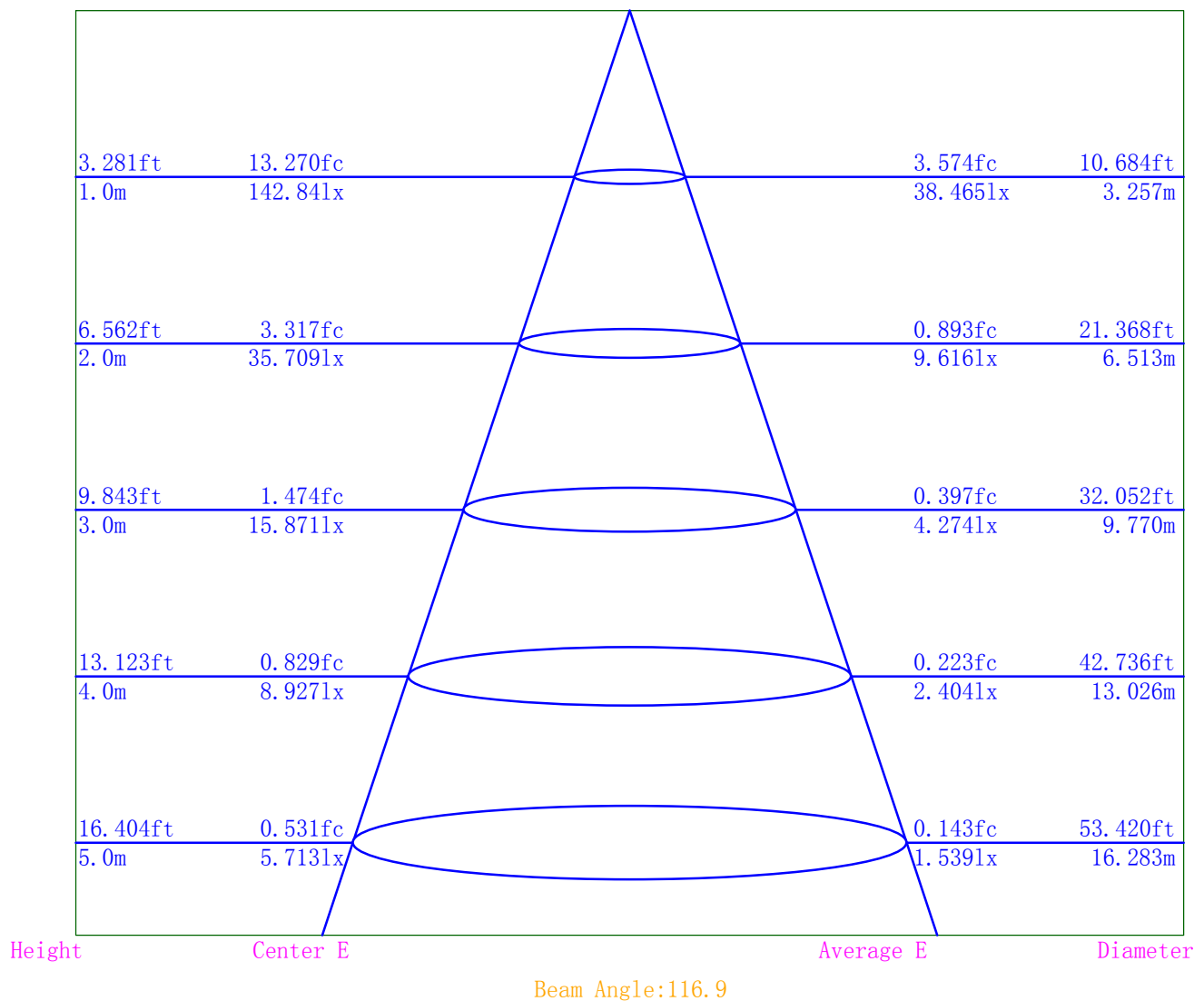
IES Indoor Report

Photometric Filename: TPR-FL-ENCORE-3000K-S.IES

Illuminance-Distance Diagram

Lum. Name: TPR-FL-ENCORE-3000K-S	Lum. Catalog:	Test ID: 001
Lamp Name: LED	Lamp Catalog:	Test Lab: LAB001
Manufacture: TPR ENTERPRISES, LTD.	Test Machine: GON-2000	Test Date: 2018/11/19

Illuminance-Distance Curve



IES Indoor Report

Photometric Filename: TPR-FL-ENCORE-3000K-S.IES

Indoor Luminance Limiting Curves

Lum. Name: TPR-FL-ENCORE-3000K-S	Lum. Catalog:	Test ID: 001
Lamp Name: LED	Lamp Catalog:	Test Lab: LAB001
Manufacture: TPR ENTERPRISES, LTD.	Test Machine: GON-2000	Test Date: 2018/11/19

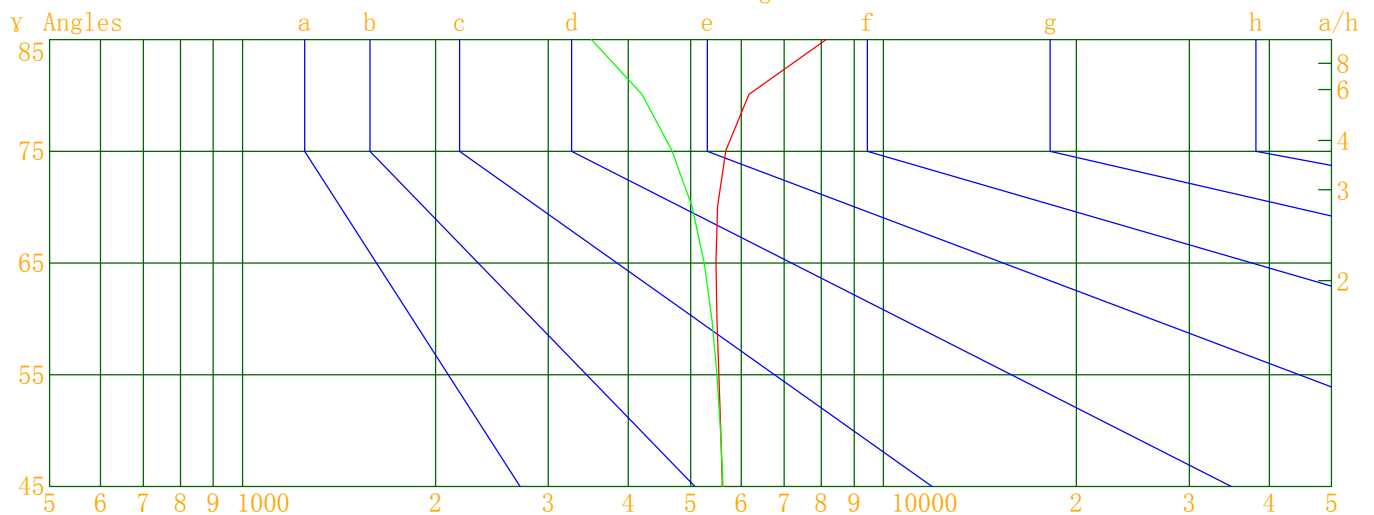
Glare Grade Table

GI	Quality	Using Illuminance							
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	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	5606	5573	5538	5499	5477	5509	5676	6169	8134
C90	5619	5569	5499	5398	5249	5023	4674	4198	3503

Luminance Limiting Curve



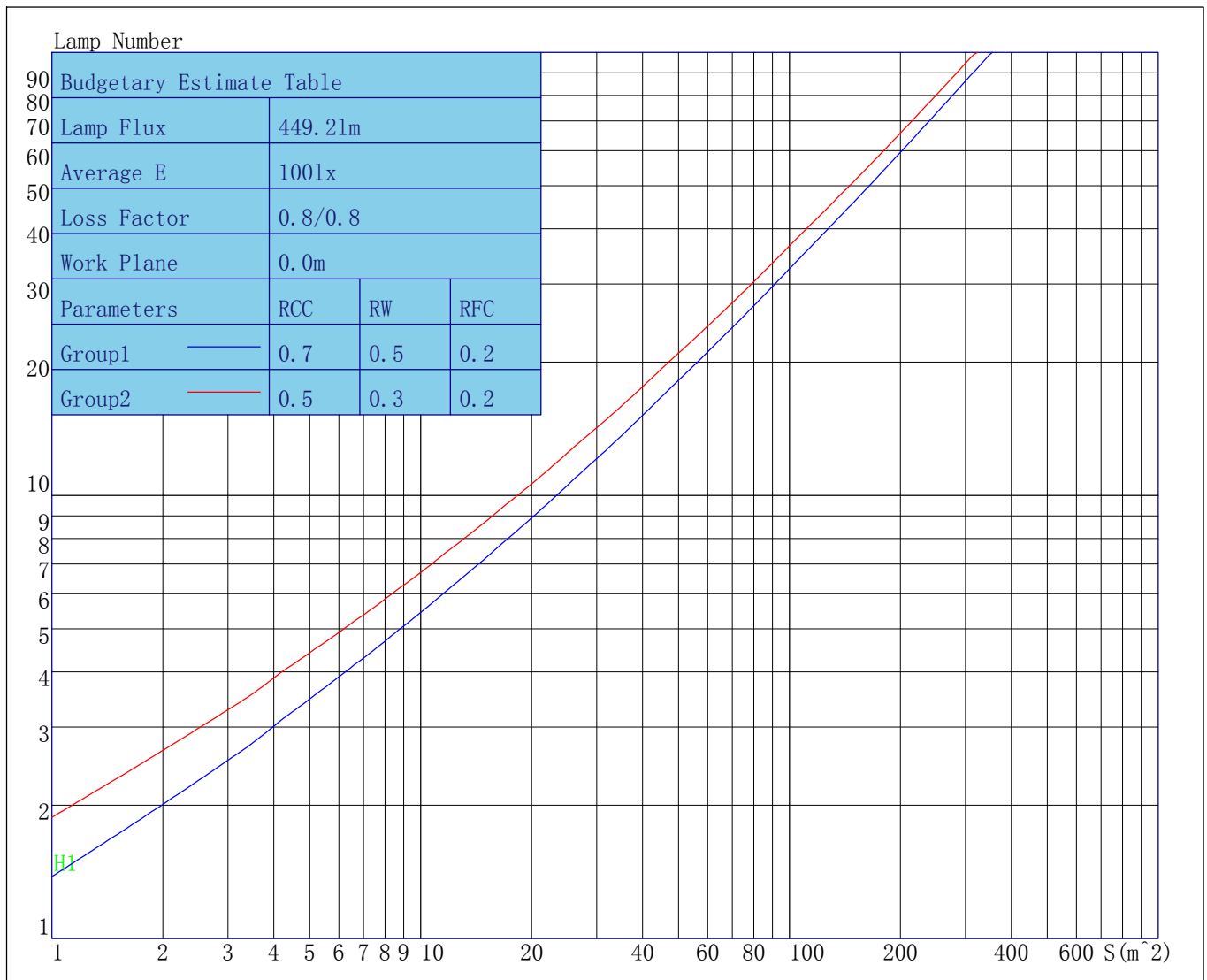
Luminous Size: Length(m)=1.000 Width(m)=0.010 Height(m)=0.015 Area(m²)=0.025000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

IES Indoor Report

Photometric Filename: TPR-FL-ENCORE-3000K-S.IES

Indoor Budgetary Estimate Table

Lum. Name: TPR-FL-ENCORE-3000K-S	Lum. Catalog:	Test ID: 001
Lamp Name: LED	Lamp Catalog:	Test Lab: LAB001
Manufacture: TPR ENTERPRISES, LTD.	Test Machine: GON-2000	Test Date: 2018/11/19



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

IES Indoor Report

Photometric Filename: TPR-FL-ENCORE-3000K-S.IES

Indoor Coefficient of Utilization Table

Lum. Name: TPR-FL-ENCORE-3000K-S	Lum. Catalog:	Test ID: 001
Lamp Name: LED	Lamp Catalog:	Test Lab: LAB001
Manufacture: TPR ENTERPRISES, LTD.	Test Machine: GON-2000	Test Date: 2018/11/19

Coefficients of Utilization - Zonal Cavity Method																					
Coef.	Effective Floor Cavity Reflectance RFC=0.20																				
RhoCC (%)	80				70				50				30				10				0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization (%)																				
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97			
1	107	102	97	93	104	99	95	92	95	91	88	90	87	85	86	84	82	79			
2	97	88	81	75	94	86	80	74	82	77	72	78	74	70	75	71	68	65			
3	88	77	69	62	86	76	68	61	72	65	60	69	63	58	66	61	57	55			
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	53	49	46			
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40			
6	68	55	46	39	66	54	45	39	51	44	38	49	43	38	48	42	37	35			
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31			
8	59	45	37	31	57	44	36	30	43	35	30	41	35	30	40	34	29	27			
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	24			
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22			

IES Indoor Report

Photometric Filename: TPR-FL-ENCORE-3000K-S.IES

Unified Glare Rating Table

Lum. Name: TPR-FL-ENCORE-3000K-S	Lum. Catalog:	Test ID: 001
Lamp Name: LED	Lamp Catalog:	Test Lab: LAB001
Manufacture: TPR ENTERPRISES, LTD.	Test Machine: GON-2000	Test Date: 2018/11/19

Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H Y=2H	18.1	19.7	18.5	20.1	20.5	18.2	19.8	18.6	20.1	20.5
Y=3H	20.0	21.4	20.4	21.8	22.3	19.9	21.3	20.3	21.7	22.1
Y=4H	20.8	22.2	21.3	22.6	23.1	20.6	21.9	21.0	22.3	22.8
Y=6H	21.6	22.9	22.1	23.3	23.8	21.1	22.3	21.5	22.8	23.2
Y=8H	22.0	23.2	22.5	23.7	24.2	21.2	22.5	21.7	22.9	23.4
Y=12H	22.4	23.6	22.9	24.0	24.5	21.4	22.5	21.8	23.0	23.5
X=4H Y=2H	18.9	20.3	19.4	20.7	21.1	19.0	20.3	19.4	20.8	21.2
Y=3H	21.0	22.1	21.4	22.6	23.0	20.9	22.0	21.3	22.5	23.0
Y=4H	21.9	23.0	22.4	23.5	24.0	21.7	22.8	22.2	23.2	23.7
Y=6H	22.9	23.8	23.4	24.3	24.8	22.4	23.3	22.9	23.8	24.3
Y=8H	23.3	24.2	23.9	24.7	25.2	22.6	23.5	23.1	24.0	24.5
Y=12H	23.8	24.6	24.3	25.1	25.7	22.8	23.5	23.3	24.1	24.6
X=8H Y=4H	22.3	23.2	22.8	23.7	24.2	22.1	23.0	22.6	23.5	24.0
Y=6H	23.4	24.2	24.0	24.7	25.4	23.0	23.7	23.5	24.2	24.9
Y=8H	24.0	24.6	24.6	25.2	25.8	23.3	24.0	23.9	24.5	25.1
Y=12H	24.6	25.2	25.2	25.7	26.4	23.6	24.2	24.1	24.7	25.3
X=12H Y=4H	22.4	23.1	22.9	23.7	24.2	22.2	23.0	22.7	23.5	24.1
Y=6H	23.5	24.2	24.1	24.7	25.3	23.1	23.8	23.7	24.3	24.9
Y=8H	24.2	24.7	24.7	25.3	25.9	23.5	24.1	24.1	24.6	25.3
Variations with the objverver position at spacings										
S=1.0H	0.2/-0.2					0.5/-0.5				
S=1.5H	0.5/-0.5					0.8/-0.9				
S=2.0H	0.5/-0.6					0.9/-1.1				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	3.7					3.2				

o the CIE Pub. 117, data has been corrected, refers to the lamp's lumens 8.2flm.

IES Indoor Report

Photometric Filename: TPR-FL-ENCORE-3000K-S.IES

Candela Tabulation

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
Y 0.0	142.84	142.84	142.84	142.84	142.84	142.84	142.84	142.84
Y 1.0	142.92	142.80	142.73	142.77	142.96	142.81	142.65	142.61
Y 2.0	142.84	142.74	142.70	142.78	142.93	142.75	142.55	142.46
Y 3.0	142.70	142.61	142.61	142.74	142.83	142.63	142.40	142.26
Y 4.0	142.51	142.46	142.51	142.65	142.68	142.47	142.18	142.01
Y 5.0	142.28	142.24	142.34	142.51	142.49	142.27	141.94	141.74
Y 6.0	142.00	142.01	142.15	142.34	142.26	142.00	141.64	141.40
Y 7.0	141.68	141.70	141.90	142.13	141.96	141.71	141.29	141.02
Y 8.0	141.32	141.37	141.60	141.87	141.62	141.35	140.89	140.60
Y 9.0	140.92	140.99	141.25	141.57	141.24	140.96	140.46	140.12
Y 10.0	140.48	140.55	140.86	141.20	140.82	140.51	139.96	139.62
Y 11.0	140.00	140.08	140.43	140.79	140.33	140.02	139.43	139.08
Y 12.0	139.47	139.57	139.95	140.35	139.80	139.48	138.85	138.48
Y 13.0	138.93	139.00	139.41	139.84	139.22	138.88	138.20	137.84
Y 14.0	138.32	138.40	138.82	139.29	138.60	138.26	137.54	137.16
Y 15.0	137.68	137.76	138.21	138.69	137.94	137.59	136.83	136.45
Y 16.0	137.00	137.07	137.54	138.08	137.24	136.87	136.06	135.69
Y 17.0	136.28	136.34	136.82	137.37	136.47	136.08	135.25	134.89
Y 18.0	135.52	135.57	136.04	136.65	135.69	135.26	134.39	134.05
Y 19.0	134.70	134.77	135.24	135.86	134.84	134.41	133.48	133.16
Y 20.0	133.86	133.93	134.37	135.04	133.97	133.51	132.53	132.25
Y 21.0	132.96	133.02	133.47	134.18	133.04	132.56	131.54	131.29
Y 22.0	132.02	132.10	132.53	133.27	132.06	131.56	130.54	130.29
Y 23.0	131.03	131.12	131.54	132.32	131.05	130.53	129.47	129.24
Y 24.0	130.00	130.10	130.51	131.32	130.00	129.46	128.37	128.14
Y 25.0	128.91	129.04	129.43	130.28	128.87	128.34	127.23	126.99
Y 26.0	127.78	127.94	128.29	129.20	127.74	127.18	126.07	125.82
Y 27.0	126.62	126.78	127.13	128.07	126.55	125.99	124.87	124.60
Y 28.0	125.42	125.59	125.93	126.90	125.31	124.75	123.61	123.35
Y 29.0	124.17	124.37	124.68	125.71	124.03	123.49	122.33	122.08
Y 30.0	122.87	123.10	123.39	124.44	122.72	122.17	121.02	120.75
Y 31.0	121.55	121.79	122.06	123.17	121.37	120.81	119.68	119.39
Y 32.0	120.17	120.44	120.68	121.82	119.97	119.44	118.28	118.03
Y 33.0	118.78	119.06	119.28	120.47	118.53	118.03	116.85	116.57
Y 34.0	117.33	117.64	117.84	119.06	117.08	116.55	115.40	115.11
Y 35.0	115.85	116.15	116.36	117.61	115.57	115.08	113.91	113.62
Y 36.0	114.33	114.67	114.81	116.13	114.04	113.54	112.39	112.08
Y 37.0	112.80	113.13	113.24	114.59	112.45	111.99	110.83	110.50
Y 38.0	111.20	111.54	111.63	113.04	110.83	110.37	109.23	108.88
Y 39.0	109.57	109.93	109.99	111.42	109.17	108.73	107.61	107.23
Y 40.0	107.89	108.28	108.29	109.79	107.48	107.04	105.96	105.56
Y 41.0	106.21	106.58	106.58	108.10	105.76	105.33	104.25	103.85
Y 42.0	104.49	104.87	104.82	106.39	104.00	103.59	102.51	102.12
Y 43.0	102.73	103.12	103.03	104.64	102.21	101.82	100.75	100.33
Y 44.0	100.93	101.33	101.19	102.87	100.39	99.98	98.92	98.54
Y 45.0	99.11	99.51	99.34	101.05	98.52	98.15	97.06	96.70
Y 46.0	97.28	97.65	97.43	99.20	96.64	96.27	95.18	94.81

IES Indoor Report

Photometric Filename:TPR-FL-ENCORE-3000K-S.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
Y 47.0	95.39	95.77	95.50	97.33	94.72	94.36	93.26	92.92
Y 48.0	93.47	93.86	93.53	95.40	92.77	92.41	91.28	90.97
Y 49.0	91.54	91.91	91.53	93.45	90.79	90.43	89.27	89.00
Y 50.0	89.56	89.92	89.49	91.46	88.78	88.41	87.23	87.02
Y 51.0	87.58	87.93	87.43	89.45	86.76	86.38	85.16	85.01
Y 52.0	85.58	85.90	85.33	87.39	84.69	84.31	83.06	82.96
Y 53.0	83.54	83.82	83.21	85.33	82.61	82.20	80.93	80.87
Y 54.0	81.47	81.76	81.05	83.25	80.50	80.08	78.73	78.76
Y 55.0	79.41	79.63	78.86	81.11	78.36	77.92	76.53	76.63
Y 56.0	77.31	77.49	76.65	78.94	76.22	75.75	74.27	74.47
Y 57.0	75.19	75.34	74.40	76.76	74.05	73.53	71.95	72.29
Y 58.0	73.05	73.15	72.11	74.55	71.83	71.28	69.62	70.07
Y 59.0	70.90	70.92	69.83	72.33	69.61	69.01	67.26	67.85
Y 60.0	68.73	68.69	67.47	70.07	67.39	66.71	64.89	65.61
Y 61.0	66.57	66.43	65.14	67.78	65.14	64.40	62.47	63.35
Y 62.0	64.39	64.17	62.75	65.49	62.88	62.07	60.06	61.08
Y 63.0	62.21	61.88	60.36	63.16	60.61	59.73	57.60	58.80
Y 64.0	60.03	59.59	57.92	60.81	58.34	57.35	55.13	56.51
Y 65.0	57.86	57.27	55.46	58.46	56.08	54.98	52.61	54.19
Y 66.0	55.68	54.93	52.99	56.08	53.81	52.59	50.11	51.87
Y 67.0	53.51	52.61	50.50	53.70	51.55	50.22	47.58	49.58
Y 68.0	51.37	50.28	47.98	51.32	49.31	47.82	45.05	47.27
Y 69.0	49.22	47.92	45.48	48.94	47.10	45.43	42.50	44.97
Y 70.0	47.10	45.60	42.95	46.57	44.88	43.06	39.94	42.69
Y 71.0	44.99	43.26	40.42	44.18	42.71	40.67	37.39	40.44
Y 72.0	42.91	40.95	37.87	41.82	40.56	38.33	34.82	38.20
Y 73.0	40.84	38.66	35.33	39.49	38.45	36.00	32.26	35.97
Y 74.0	38.79	36.37	32.78	37.20	36.37	33.72	29.73	33.78
Y 75.0	36.73	34.13	30.24	34.91	34.39	31.48	27.21	31.64
Y 76.0	34.67	31.93	27.73	32.70	32.49	29.31	24.70	29.54
Y 77.0	32.67	29.75	25.27	30.54	30.65	27.17	22.25	27.48
Y 78.0	30.67	27.62	22.89	28.41	28.88	25.12	19.84	25.44
Y 79.0	28.72	25.54	20.54	26.35	27.15	23.18	17.48	23.47
Y 80.0	26.78	23.50	18.23	24.41	25.46	21.33	15.19	21.52
Y 81.0	24.90	21.51	15.94	22.59	23.82	19.63	13.01	19.63
Y 82.0	23.03	19.58	13.73	20.86	22.29	18.01	10.96	17.81
Y 83.0	21.21	17.69	11.57	19.23	20.85	16.47	9.09	16.03
Y 84.0	19.43	15.87	9.51	17.67	19.53	15.05	7.36	14.35
Y 85.0	17.72	14.14	7.63	16.24	18.30	13.76	5.74	12.76
Y 86.0	16.10	12.52	5.99	14.91	17.19	12.61	4.42	11.27
Y 87.0	14.56	10.98	4.47	13.71	16.20	11.62	3.33	9.89
Y 88.0	13.11	9.57	3.24	12.63	15.33	10.77	2.53	8.65
Y 89.0	11.78	8.28	2.27	11.73	14.50	10.04	2.05	7.54
Y 90.0	10.55	7.16	1.62	10.92	13.77	9.38	1.89	6.58
Y 91.0	9.42	6.20	1.33	10.22	13.07	8.75	1.85	5.75
Y 92.0	8.42	5.36	1.25	9.60	12.40	8.16	1.81	5.04
Y 93.0	7.52	4.66	1.24	8.99	11.77	7.63	1.76	4.43

IES Indoor Report

Photometric Filename:TPR-FL-ENCORE-3000K-S.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
Y 94.0	6.72	4.07	1.20	8.42	11.20	7.14	1.70	3.93
Y 95.0	6.00	3.59	1.20	7.93	10.65	6.46	1.68	3.50
Y 96.0	5.36	3.17	1.22	7.45	10.13	5.96	1.67	3.01
Y 97.0	4.79	2.72	1.23	6.80	9.49	5.56	1.62	2.70
Y 98.0	4.31	2.44	1.24	6.31	8.78	5.23	1.58	2.44
Y 99.0	3.80	2.22	1.22	5.93	8.22	4.96	1.56	2.25
Y 100.0	3.30	2.05	1.21	5.61	7.79	4.75	1.54	2.12
Y 101.0	2.89	1.95	1.20	5.30	7.40	4.57	1.51	2.03
Y 102.0	2.59	1.88	1.20	5.05	7.05	4.42	1.49	2.00
Y 103.0	2.34	1.85	1.20	4.84	6.75	4.29	1.48	1.98
Y 104.0	2.14	1.83	1.20	4.66	6.44	4.17	1.46	1.93
Y 105.0	2.02	1.79	1.19	4.48	6.20	4.09	1.41	1.88
Y 106.0	1.93	1.75	1.19	4.29	5.91	3.95	1.38	1.83
Y 107.0	1.88	1.71	1.18	4.18	5.66	3.85	1.33	1.77
Y 108.0	1.82	1.66	1.17	4.00	5.49	3.78	1.29	1.74
Y 109.0	1.79	1.62	1.16	3.91	5.34	3.63	1.26	1.69
Y 110.0	1.76	1.59	1.16	3.83	5.20	3.49	1.24	1.64
Y 111.0	1.73	1.53	1.15	3.68	5.07	3.40	1.20	1.60
Y 112.0	1.70	1.49	1.13	3.57	4.99	3.35	1.20	1.52
Y 113.0	1.68	1.46	1.11	3.53	4.91	3.31	1.18	1.46
Y 114.0	1.64	1.43	1.10	3.48	4.82	3.27	1.15	1.41
Y 115.0	1.62	1.41	1.08	3.43	4.75	3.21	1.12	1.38
Y 116.0	1.58	1.37	1.07	3.36	4.67	3.15	1.09	1.36
Y 117.0	1.56	1.35	1.05	3.33	4.59	3.09	1.05	1.35
Y 118.0	1.52	1.33	1.03	3.27	4.49	3.03	1.03	1.32
Y 119.0	1.50	1.31	1.01	3.22	4.42	2.96	0.98	1.26
Y 120.0	1.47	1.29	1.00	3.15	4.35	2.90	0.95	1.16
Y 121.0	1.43	1.25	0.98	3.09	4.26	2.83	0.91	1.13
Y 122.0	1.41	1.22	0.97	3.02	4.18	2.75	0.88	1.12
Y 123.0	1.38	1.19	0.94	2.96	4.09	2.68	0.83	1.10
Y 124.0	1.36	1.14	0.94	2.91	4.02	2.60	0.79	1.05
Y 125.0	1.33	1.12	0.92	2.83	3.91	2.51	0.75	1.04
Y 126.0	1.29	1.10	0.90	2.77	3.82	2.39	0.64	1.03
Y 127.0	1.26	1.05	0.89	2.70	3.74	2.26	0.34	1.00
Y 128.0	1.24	1.00	0.87	2.61	3.66	2.12	0.08	0.97
Y 129.0	1.19	0.97	0.63	2.51	3.56	1.93	0.09	0.92
Y 130.0	1.18	0.92	0.22	2.40	3.47	1.75	0.08	0.88
Y 131.0	1.13	0.83	0.12	2.24	3.38	1.54	0.10	0.80
Y 132.0	1.11	0.77	0.13	2.08	3.28	1.33	0.11	0.70
Y 133.0	1.07	0.69	0.13	1.90	3.17	1.13	0.11	0.61
Y 134.0	1.05	0.63	0.15	1.71	3.08	0.93	0.12	0.52
Y 135.0	1.02	0.56	0.16	1.49	2.97	0.76	0.13	0.47
Y 136.0	0.97	0.53	0.16	1.30	2.81	0.63	0.13	0.41
Y 137.0	0.95	0.51	0.16	1.09	2.66	0.52	0.14	0.37
Y 138.0	0.92	0.51	0.18	0.87	2.48	0.46	0.15	0.36
Y 139.0	0.89	0.50	0.19	0.69	2.28	0.44	0.17	0.33
Y 140.0	0.83	0.47	0.20	0.58	2.06	0.41	0.16	0.33
