

**Luminaire Photograph**

LED FLOOD LIGHT FL220 LED  
FEELIGHT TECH CO., LIMITED

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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:IVY  
Test Date:2011-01-22

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65%  
Test Distance:9.900m [K=1.0000]  
Remarks: FL220-20W/90LM

**LUMINOUS INTENSITY DISTRIBUTION DIAGRAM**

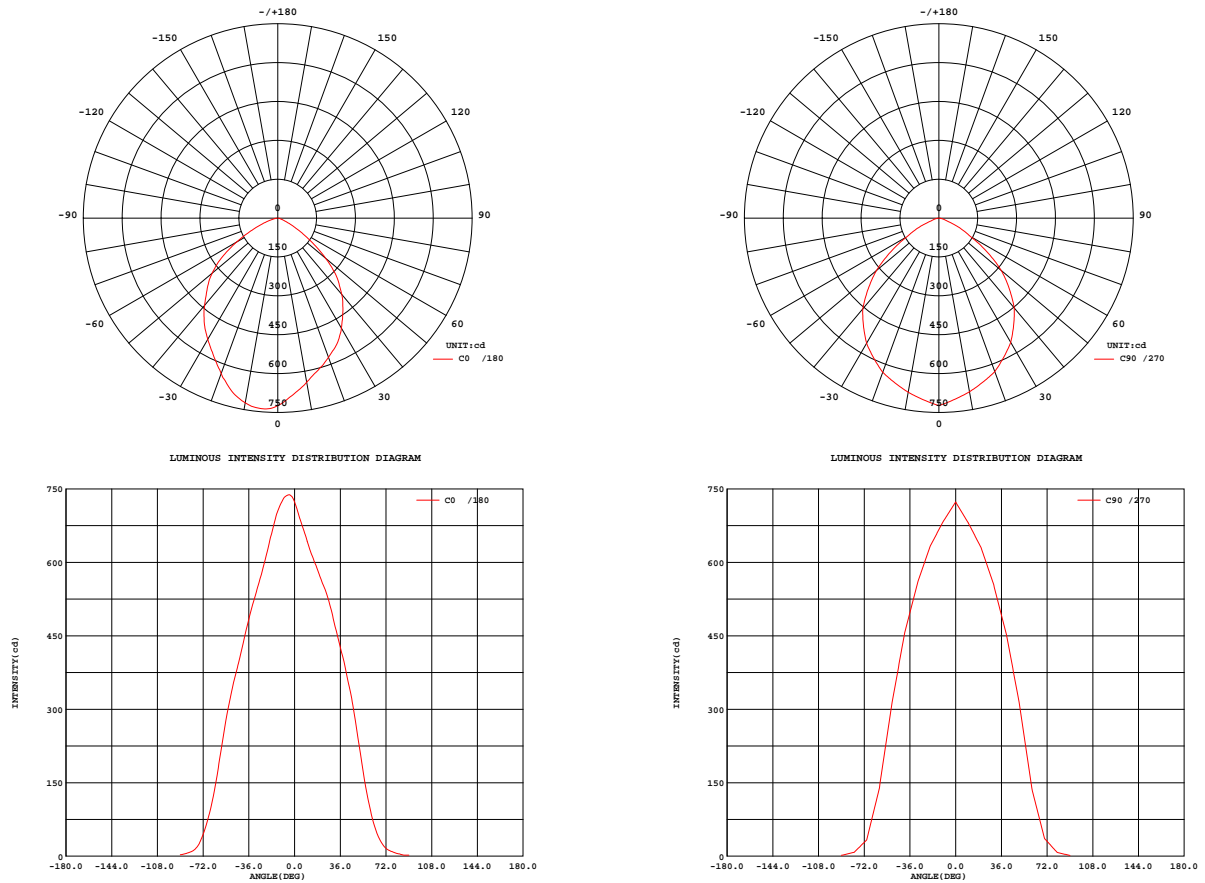


Fig. C0/C180

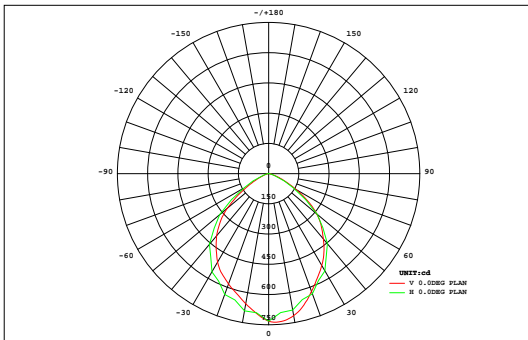
Fig. C90/C270

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:IVY  
Test Date:2011-01-22

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65%  
Test Distance:9.900m [K=1.0000]  
Remarks: FL220-20W/90LM

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.6V I:0.1190A P:25.60W PF:0.9350 Lamp Flux:1600x1 lm		
NAME: LED FLOOD LIGHT	TYPE:FL220	WEIGHT:3.5KG
DIMENSION: 220*280*120mm	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	FL220-20W	Imax(cd)	737.8
NOMINAL POWER(W)	26	AVAILABILITY(%)	87.4
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	1399
NOMINAL FLUX(lm)	1600.0	EFFICIENCY(%)	90.3
LAMPS INSIDE	1	TOTAL FLUX(lm)	1444
TEST VOLTAGE(V)	229.9	θ @50%(H,V)	88,93DEG

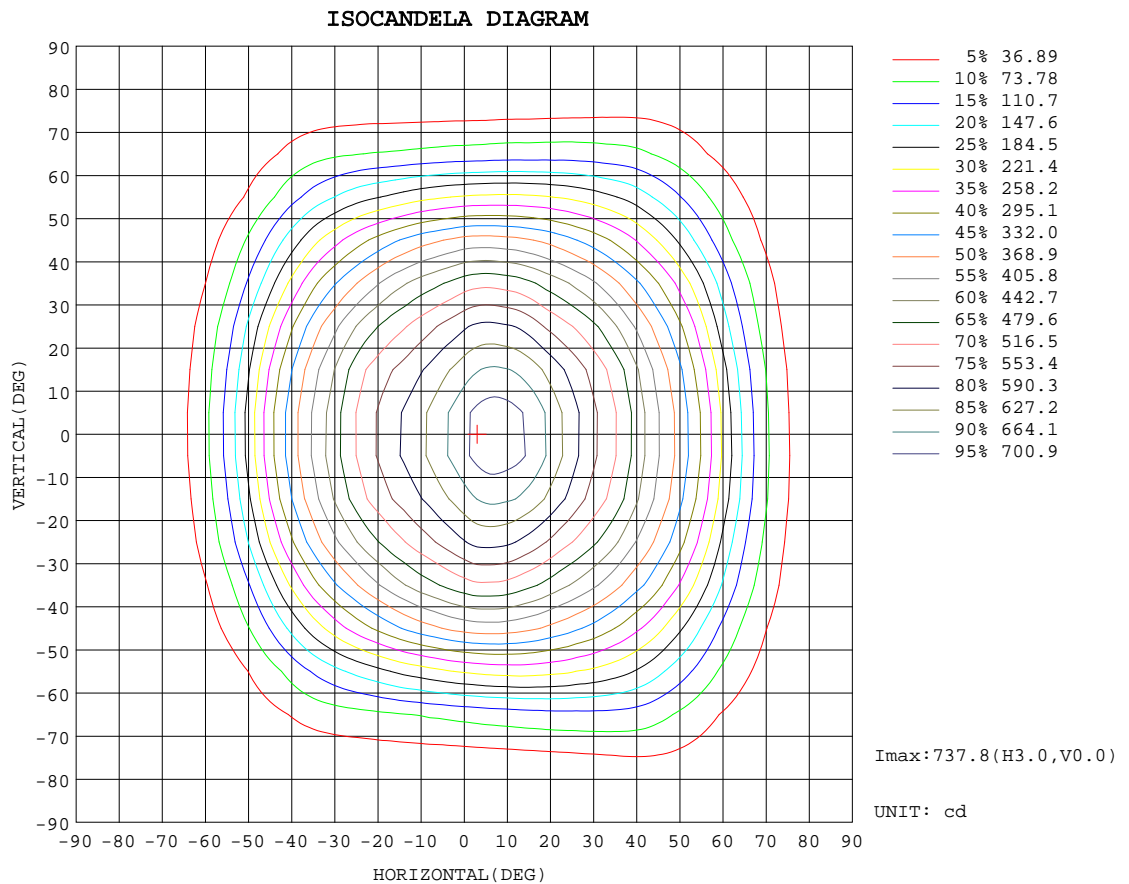
VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.01	0.02	0.03	0.05	0.07	0.08	0.10	0.11	0.12	0.12	0.12	0.12	0.10	0.07	0.05	0.03	0.01		
90	0.00	0.01	0.02	0.03	0.05	0.07	0.08	0.10	0.11	0.12	0.12	0.12	0.12	0.10	0.07	0.05	0.03	0.01	1.19	0.00
80	0.00	0.01	0.03	0.08	0.18	0.35	0.47	0.53	0.57	0.59	0.62	0.62	0.61	0.49	0.26	0.11	0.05	0.01	5.58	0.00
70	0.00	0.02	0.08	0.21	0.68	1.38	1.83	2.08	2.29	2.42	2.44	2.33	2.02	1.40	0.66	0.21	0.06	0.01	20.1	12.0
60	0.00	0.04	0.13	0.50	1.63	3.20	4.55	5.60	6.38	6.66	6.42	5.66	4.42	2.80	1.31	0.42	0.09	0.02	49.9	47.5
50	0.01	0.05	0.21	0.93	2.79	5.38	7.91	10.0	11.4	11.8	11.0	9.31	7.08	4.54	2.19	0.69	0.13	0.02	85.4	83.7
40	0.01	0.07	0.34	1.52	4.17	7.56	10.6	13.1	14.8	15.4	14.1	11.9	9.08	6.02	3.01	0.97	0.18	0.02	113	111
30	0.01	0.07	0.42	1.92	5.19	9.01	12.5	15.2	17.2	18.2	16.8	14.2	11.0	7.44	3.94	1.30	0.23	0.02	135	133
20	0.01	0.09	0.58	2.48	6.27	10.3	14.2	16.8	19.1	20.2	18.6	15.6	12.0	8.08	4.33	1.45	0.26	0.02	150	149
10	0.01	0.09	0.55	2.51	6.45	10.6	14.6	17.6	20.2	21.7	20.2	16.6	12.8	8.63	4.85	1.69	0.31	0.02	159	158
0	0.01	0.10	0.64	2.73	6.69	10.8	14.7	17.7	20.5	21.9	20.1	16.3	12.4	8.41	4.66	1.59	0.28	0.02	160	159
-10	0.01	0.08	0.50	2.27	6.02	10.2	14.0	16.9	19.1	20.4	19.0	15.8	12.3	8.33	4.64	1.62	0.30	0.02	151	150
-20	0.01	0.08	0.49	2.10	5.46	9.25	12.6	15.3	17.4	18.2	16.6	14.0	10.8	7.34	3.88	1.27	0.23	0.02	135	134
-30	0.01	0.06	0.30	1.37	3.95	7.36	10.4	13.1	14.9	15.5	14.3	12.0	9.32	6.36	3.32	1.12	0.21	0.02	114	112
-40	0.01	0.05	0.25	1.03	2.90	5.47	7.98	10.1	11.5	11.8	10.9	9.20	7.07	4.63	2.24	0.71	0.13	0.02	86.0	84.4
-50	0.01	0.03	0.12	0.45	1.45	3.02	4.55	5.85	6.77	7.18	7.01	6.17	4.88	3.20	1.56	0.51	0.11	0.02	52.9	50.5
-60	0.00	0.03	0.08	0.24	0.70	1.26	1.61	1.94	2.25	2.51	2.66	2.63	2.34	1.59	0.72	0.22	0.07	0.02	20.9	12.4
-70	0.00	0.01	0.04	0.06	0.12	0.21	0.27	0.30	0.34	0.40	0.48	0.60	0.71	0.62	0.31	0.13	0.06	0.01	4.68	0.00
-80	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.09	0.10	0.10	0.07	0.06	0.04	0.01	1.02	0.00
-90	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.09	0.10	0.10	0.07	0.06	0.04	0.01	1.02	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.11	0.90	4.80	20.5	54.7	95.5	133	162	185	195	182	153	119	80.1	42.0	14.1	2.76	0.32	1444	---
Φ a	0.00	0.00	0.97	15.9	51.5	92.7	130	160	182	192	179	151	116	77.3	39.0	10.0	0.28	0.00	---	1399

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Temperature:30DEG  
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Test Date:2011-01-22

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65%  
Test Distance:9.900m [K=1.0000]  
Remarks: FL220-20W/90LM

ISOCANDELA DIAGRAM

Test:U:229.6V I:0.1190A P:25.60W PF:0.9350 Lamp Flux:1600x1 lm		
NAME: LED FLOOD LIGHT	TYPE:FL220	WEIGHT:3.5KG
DIMENSION: 220*280*120mm	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

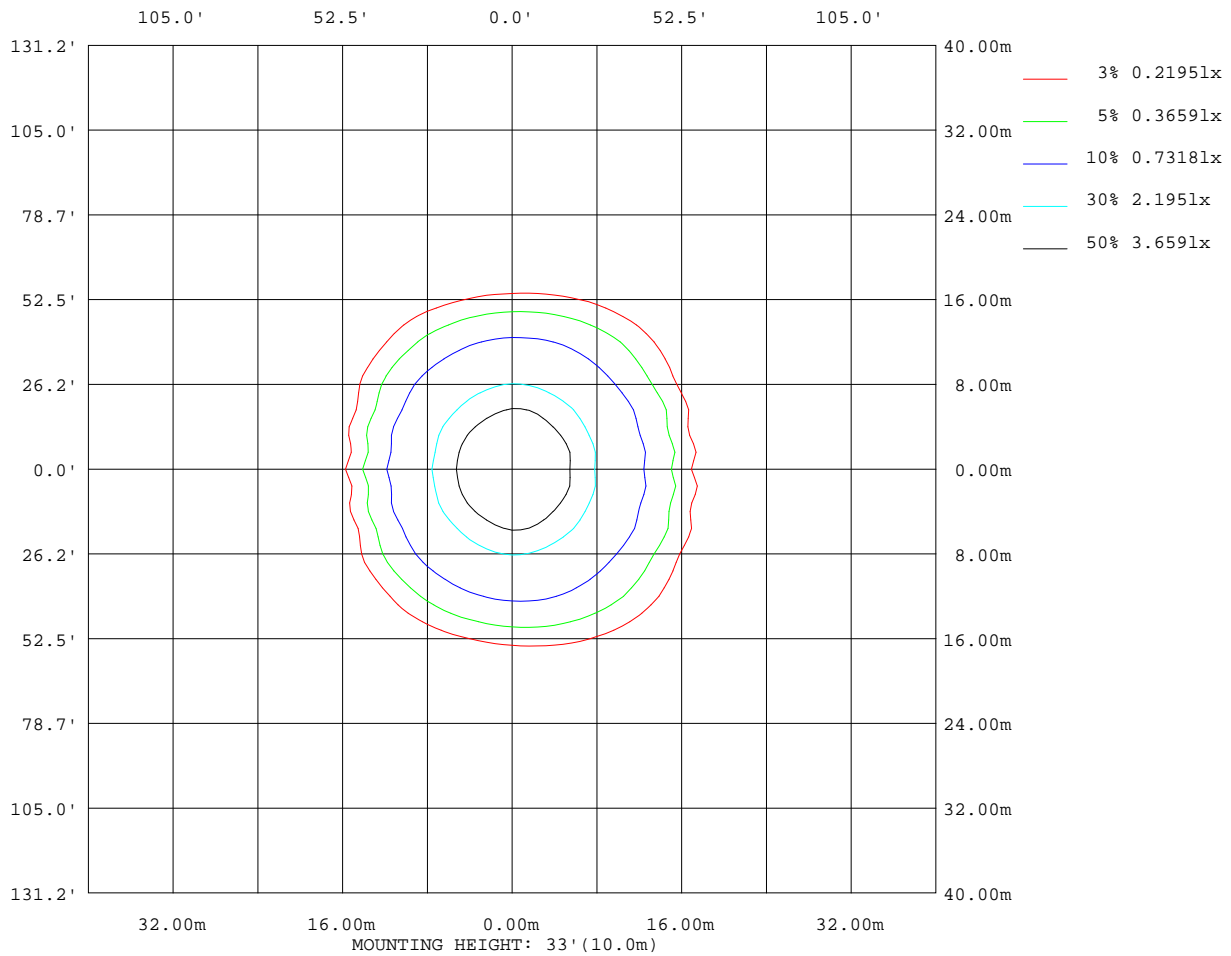


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Test Speed: HIGH  
Temperature:30DEG  
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Test Date:2011-01-22

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65%  
Test Distance:9.900m [K=1.0000]  
Remarks: FL220-20W/90LM

ISOLUX DIAGRAM

Test:U:229.6V I:0.1190A P:25.60W PF:0.9350 Lamp Flux:1600x1 lm		
NAME: LED FLOOD LIGHT	TYPE:FL220	WEIGHT:3.5KG
DIMENSION: 220*280*120mm	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:



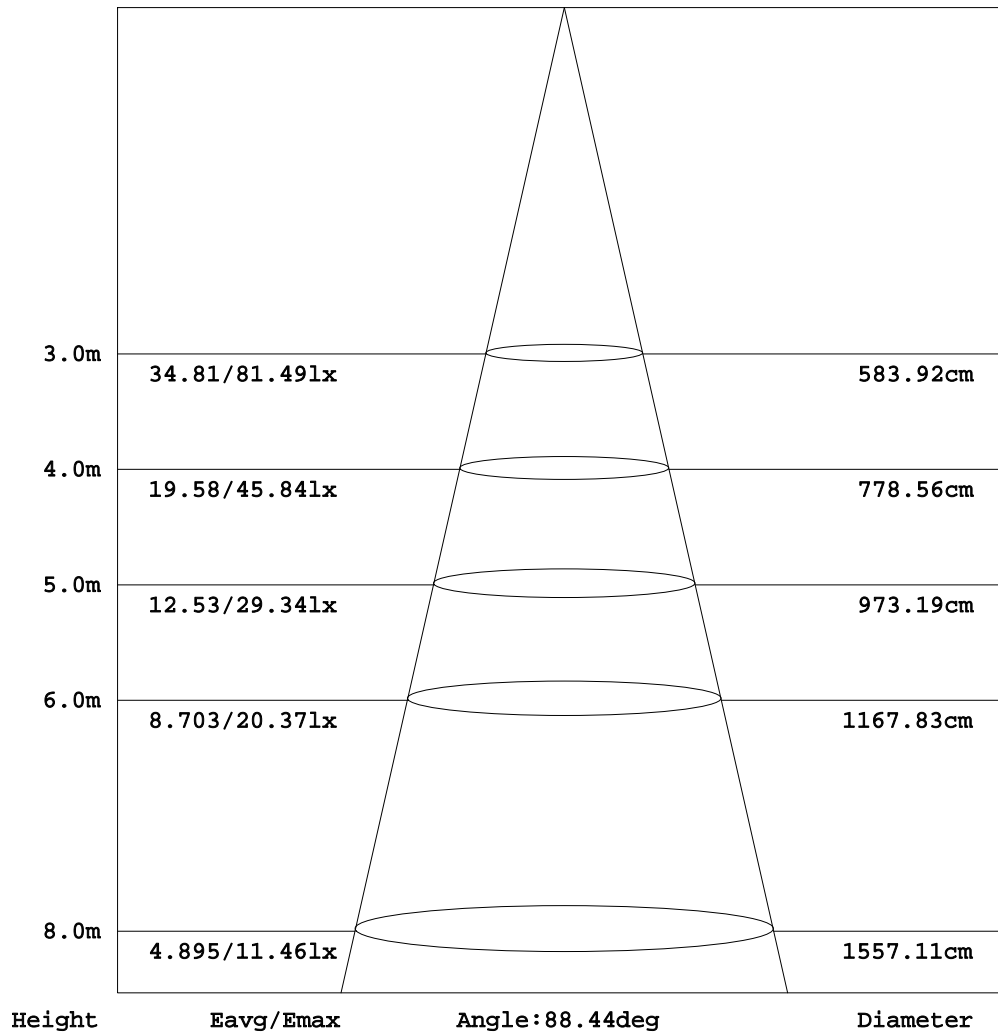
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:IVY  
Test Date:2011-01-22

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65%  
Test Distance:9.900m [K=1.0000]  
Remarks: FL220-20W/90LM

AAI Figure

Test:U:229.6V I:0.1190A P:25.60W PF:0.9350 Lamp Flux:1600x1 lm		
NAME: LED FLOOD LIGHT	TYPE:FL220	WEIGHT:3.5KG
DIMENSION: 220*280*120mm	SPECIFICATION:LED	SERIAL No.:
MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

Flux out:950.5 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65%  
Test Distance:9.900m [K=1.0000]  
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LUMINOUS DISTRIBUTION INTENSITY DATA

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MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

Table--1

UNIT: cd

H( DEG) V( DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	1.47	1.48	1.49	1.49	1.50	1.50	1.51	1.51	1.52	1.53	1.54	1.55	1.57	1.58	1.59	1.61	1.62	1.65	1.66
-85	1.53	1.53	1.55	1.56	1.58	1.59	1.69	1.84	2.10	2.40	2.73	3.06	3.36	3.68	3.92	4.14	4.33	4.52	4.70
-80	1.58	1.60	1.63	1.66	1.68	1.76	2.07	2.44	3.03	3.67	4.32	4.95	5.52	6.06	6.50	6.91	7.29	7.59	7.95
-75	1.63	1.64	1.67	1.69	1.94	2.56	3.23	3.92	4.84	6.98	10.0	12.6	14.4	15.4	16.3	16.9	17.9	18.6	19.9
-70	1.68	1.71	1.75	2.02	2.92	4.13	5.23	6.36	8.83	14.0	19.1	22.5	24.7	25.5	26.6	28.3	29.5	31.1	33.9
-65	1.74	1.76	1.84	2.43	3.59	5.13	6.81	10.2	17.0	27.0	38.9	49.2	56.5	61.4	66.6	71.5	75.6	80.2	85.0
-60	1.82	1.88	2.46	4.29	6.05	8.04	11.7	20.9	36.6	53.9	72.0	85.5	94.8	103	112	120	128	136	142
-55	1.85	1.89	2.06	3.54	5.66	8.06	11.8	20.9	37.4	60.2	87.2	114	137	157	174	191	204	216	225
-50	1.91	2.00	2.99	5.27	8.14	11.8	21.4	38.2	64.5	97.6	136	171	204	232	257	278	294	308	317
-45	1.89	2.04	2.78	5.04	8.07	12.8	23.2	42.8	72.5	112	157	201	240	274	303	330	352	370	383
-40	2.12	2.46	4.89	8.33	12.8	24.6	46.9	80.2	126	181	232	278	317	352	382	410	431	449	458
-35	2.00	2.12	3.22	6.01	10.0	17.4	34.6	64.7	108	166	227	283	328	367	403	435	462	483	502
-30	2.14	2.27	4.73	8.57	14.1	28.1	56.0	97.7	157	226	290	342	385	426	464	493	518	542	563
-25	2.12	2.15	3.84	7.29	12.5	24.3	49.6	90.4	149	222	291	348	398	441	479	509	537	563	588
-20	2.13	3.42	6.63	11.6	22.5	46.9	89.0	149	227	303	364	416	463	504	533	560	586	614	638
-15	2.13	2.15	4.27	8.14	13.9	28.8	59.3	108	178	262	332	392	446	495	534	562	589	619	649
-10	2.12	2.55	5.58	10.6	20.0	42.7	83.7	146	229	309	374	434	489	537	571	597	626	659	691
-5	2.05	2.13	4.55	8.63	15.2	32.3	66.0	121	197	282	350	411	466	517	556	589	619	656	693
0	2.13	3.91	7.63	13.2	27.7	57.9	109	182	267	341	402	454	506	548	582	616	656	696	732
5	1.91	2.04	4.48	8.70	15.3	32.6	66.3	122	198	282	350	410	464	518	556	588	618	654	692
10	1.90	2.29	6.02	10.6	20.4	43.3	85.5	148	230	309	374	430	488	537	568	595	622	657	687
15	1.80	1.92	4.23	8.27	14.2	29.9	60.5	112	181	262	331	392	444	497	535	561	587	617	647
20	1.82	3.18	7.14	11.9	23.6	48.9	91.9	153	230	302	363	416	466	507	534	558	586	612	635
25	1.70	1.80	3.79	7.63	12.9	25.8	51.6	94.2	154	225	292	349	397	444	480	508	535	560	585
30	1.68	1.98	4.96	8.86	14.9	29.9	58.3	104	163	230	291	343	386	427	462	491	513	537	558
35	1.60	1.69	3.15	6.51	10.5	18.7	36.9	68.7	116	172	231	286	329	368	403	434	459	478	499
40	1.59	2.24	5.27	8.72	13.9	26.6	49.9	86.4	134	187	238	284	320	353	384	408	427	444	453
45	1.47	1.57	2.61	5.37	8.55	14.0	25.4	46.6	79.0	121	166	210	246	279	307	332	353	368	381
50	1.44	1.55	3.10	5.67	8.65	13.1	23.7	42.9	71.8	109	146	181	213	240	261	283	298	309	315
55	1.36	1.40	1.75	3.81	6.12	8.75	13.3	23.8	41.5	67.9	98.5	126	148	168	183	196	209	219	225
60	1.30	1.42	2.63	4.61	6.66	8.88	13.8	24.2	41.6	63.2	83.9	98.6	108	115	120	126	132	137	139
65	1.26	1.27	1.46	2.51	4.04	5.75	7.68	11.8	19.2	31.7	46.8	59.5	67.6	72.3	75.9	78.0	81.4	84.6	86.4
70	1.21	1.23	1.37	2.05	3.50	4.67	5.76	7.14	10.9	18.1	25.7	31.1	32.9	34.3	34.1	34.4	34.7	35.7	36.0
75	1.22	1.22	1.22	1.39	1.95	2.76	3.56	4.42	5.69	8.68	12.8	16.6	18.8	19.7	20.4	20.6	21.0	21.2	21.8
80	1.21	1.21	1.21	1.21	1.41	1.74	2.36	2.92	3.52	4.11	4.71	5.31	5.88	6.37	6.81	7.10	7.39	7.60	7.80
85	1.21	1.22	1.21	1.20	1.18	1.30	1.53	1.82	2.10	2.46	2.80	3.09	3.37	3.66	3.90	4.09	4.27	4.40	4.53
90	1.21	1.22	1.21	1.08	1.11	1.04	1.05	1.05	1.08	1.22	1.21	1.22	1.24	1.25	1.27	1.28	1.31	1.35	1.37

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V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
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MANUFACTURER: FEELIGHT TECH CO., LIMITED	SURFACE:	PROTECTION ANGLE:

Table--2

UNIT: cd

H( DEG ) V( DEG )	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	1.68	1.74	1.87	2.00	2.14	2.30	2.47	2.67	2.91	3.17	3.43	3.69	4.01	4.24	4.40	4.47	4.48	4.48
-85	4.87	5.06	5.28	5.50	5.80	6.22	7.23	8.16	8.09	7.23	6.21	5.71	5.54	5.42	5.23	5.03	4.76	4.46
-80	8.29	8.67	8.94	9.31	9.86	11.3	13.2	13.8	12.4	9.94	8.26	7.48	6.95	6.39	5.81	5.28	4.69	4.32
-75	21.3	23.0	24.8	26.8	28.7	31.1	33.7	35.5	33.7	28.5	21.6	15.8	11.5	8.92	7.52	6.42	5.50	4.62
-70	36.4	39.5	42.9	46.7	50.9	54.0	57.3	56.3	49.9	38.9	27.4	18.5	12.5	9.61	7.87	6.44	5.29	4.18
-65	89.8	92.9	96.8	99.6	101	101	100	95.4	83.9	67.9	50.5	34.4	21.9	14.0	9.91	7.66	5.96	4.55
-60	147	151	154	154	152	148	139	123	99.9	75.6	53.1	34.4	20.6	12.7	9.09	6.71	4.99	3.96
-55	232	235	236	231	224	214	200	181	156	127	96.5	66.9	43.1	25.5	14.8	9.47	6.69	4.65
-50	322	322	312	301	284	263	241	211	177	142	103	70.2	42.9	23.7	13.2	8.64	5.87	3.68
-45	388	386	376	360	342	321	295	265	231	190	145	102	65.3	37.6	19.6	10.9	7.09	4.55
-40	455	440	423	399	374	347	315	280	234	185	134	88.6	52.3	27.4	13.6	8.21	5.19	3.54
-35	511	505	487	465	440	412	380	344	303	255	201	143	92.0	54.4	27.6	13.3	7.68	4.54
-30	563	551	527	500	473	440	401	362	315	261	199	135	83.7	46.4	21.6	10.6	6.22	3.28
-25	602	597	576	548	517	486	449	404	358	307	246	176	113	66.4	32.8	14.6	7.91	4.38
-20	637	621	591	557	525	489	442	394	343	282	210	139	83.0	42.7	18.5	9.10	5.10	3.07
-15	671	668	651	616	577	539	500	447	395	340	278	204	132	76.8	38.1	16.1	8.13	4.30
-10	706	699	671	629	582	543	496	439	385	327	259	182	110	60.4	26.9	11.6	6.24	2.81
-5	720	717	696	655	605	560	518	465	408	355	293	216	139	80.6	39.8	16.4	8.07	4.16
0	736	715	675	622	572	527	478	422	370	311	237	157	92.4	47.5	19.9	9.13	4.89	2.65
5	717	715	693	653	606	560	519	465	408	355	291	214	137	79.0	38.7	16.1	7.90	4.05
10	702	692	666	626	584	544	498	437	383	324	255	175	106	57.9	25.9	11.1	5.98	2.47
15	667	665	647	613	577	540	499	447	392	338	273	197	126	72.6	35.6	15.2	7.67	3.93
20	634	621	588	556	526	489	440	389	338	276	201	131	76.1	38.9	16.8	8.40	4.67	2.54
25	599	594	576	544	517	486	446	401	353	301	237	166	105	60.1	29.1	12.9	7.16	3.81
30	560	551	523	500	473	437	397	357	309	253	187	124	75.3	40.8	18.4	9.41	5.55	2.24
35	508	501	486	463	439	410	376	338	295	246	190	132	83.4	47.6	23.5	11.5	6.78	3.73
40	449	438	421	399	372	343	309	270	225	174	122	77.6	45.3	22.7	11.5	7.15	4.37	2.51
45	385	380	371	358	337	315	288	256	218	177	131	89.9	56.3	31.6	16.0	9.29	6.09	3.54
50	316	314	307	293	276	256	230	197	163	126	90.1	59.3	35.6	19.2	10.8	7.30	4.99	2.32
55	228	229	227	222	214	201	186	167	140	112	82.9	56.9	35.6	20.7	12.0	7.93	5.63	3.48
60	143	143	143	142	137	128	121	104	84.1	62.2	43.5	27.4	16.3	10.2	7.52	5.65	3.84	2.51
65	88.6	91.0	91.1	91.8	92.1	89.9	86.3	80.9	69.5	55.4	40.8	27.5	17.2	11.0	8.07	6.30	4.92	3.20
70	37.9	39.4	40.7	42.6	44.3	46.6	46.9	44.8	38.6	30.7	21.8	14.2	9.79	7.77	6.37	5.31	4.09	2.56
75	22.1	23.4	23.9	25.0	25.9	27.1	28.2	28.3	25.9	22.0	16.9	12.2	8.82	7.02	6.01	5.11	4.23	3.11
80	8.03	8.25	8.42	8.56	8.72	9.16	9.81	10.1	9.11	7.54	6.32	5.79	5.41	5.00	4.53	3.89	3.15	2.64
85	4.65	4.78	4.91	5.03	5.17	5.27	5.58	5.95	5.84	5.24	4.52	4.12	3.96	3.82	3.67	3.46	3.12	2.72
90	1.40	1.48	1.55	1.67	1.68	1.73	1.78	1.85	1.92	2.01	2.13	2.24	2.37	2.46	2.61	2.62	2.67	2.68

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:IVY  
Test Date:2011-01-22

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B SYSTEM V1.0.250  
Humidity:65%  
Test Distance:9.900m [K=1.0000]  
Remarks: FL220-20W/90LM



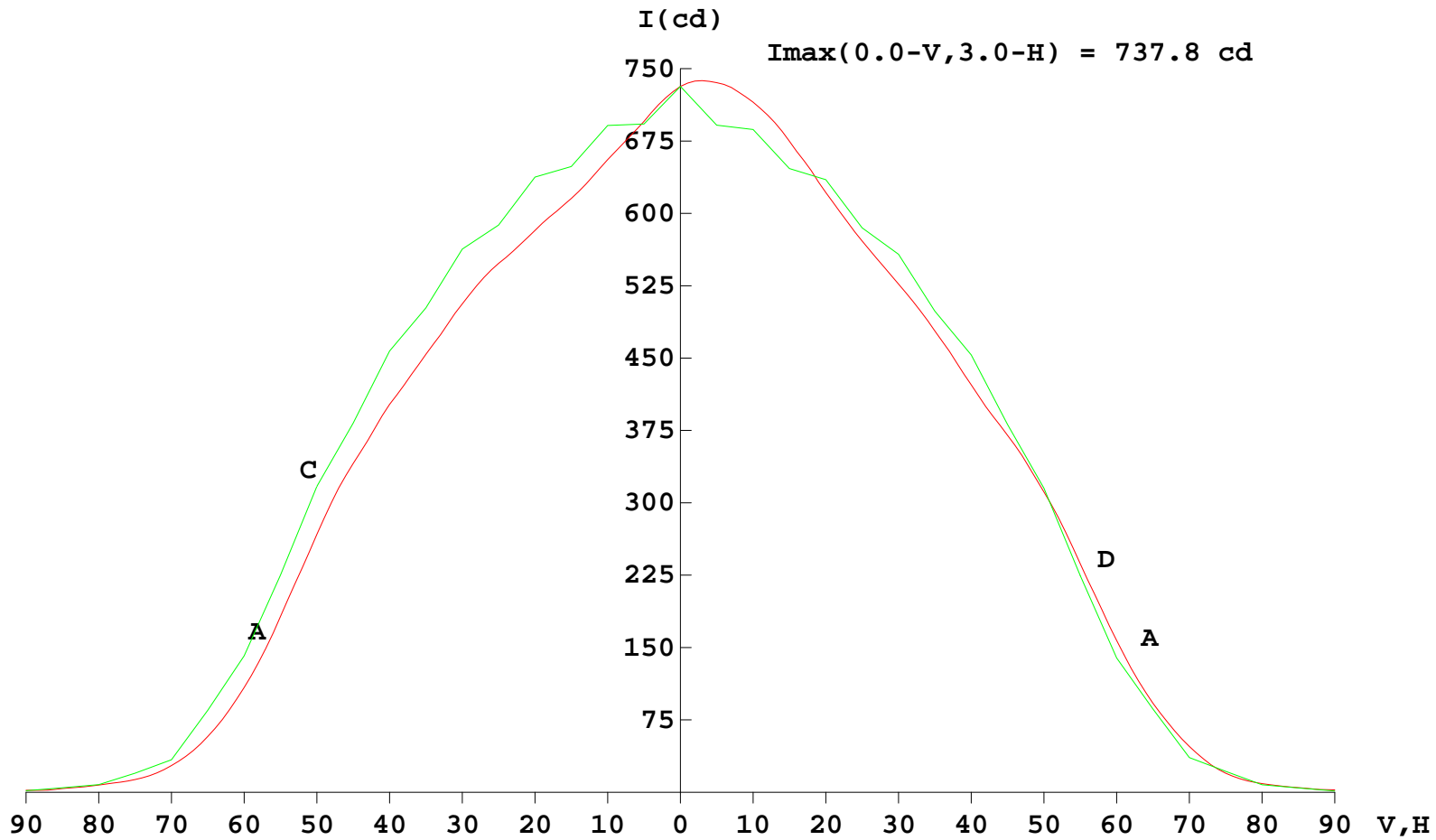
50% Beam Angle : 88°-H X 93°-V

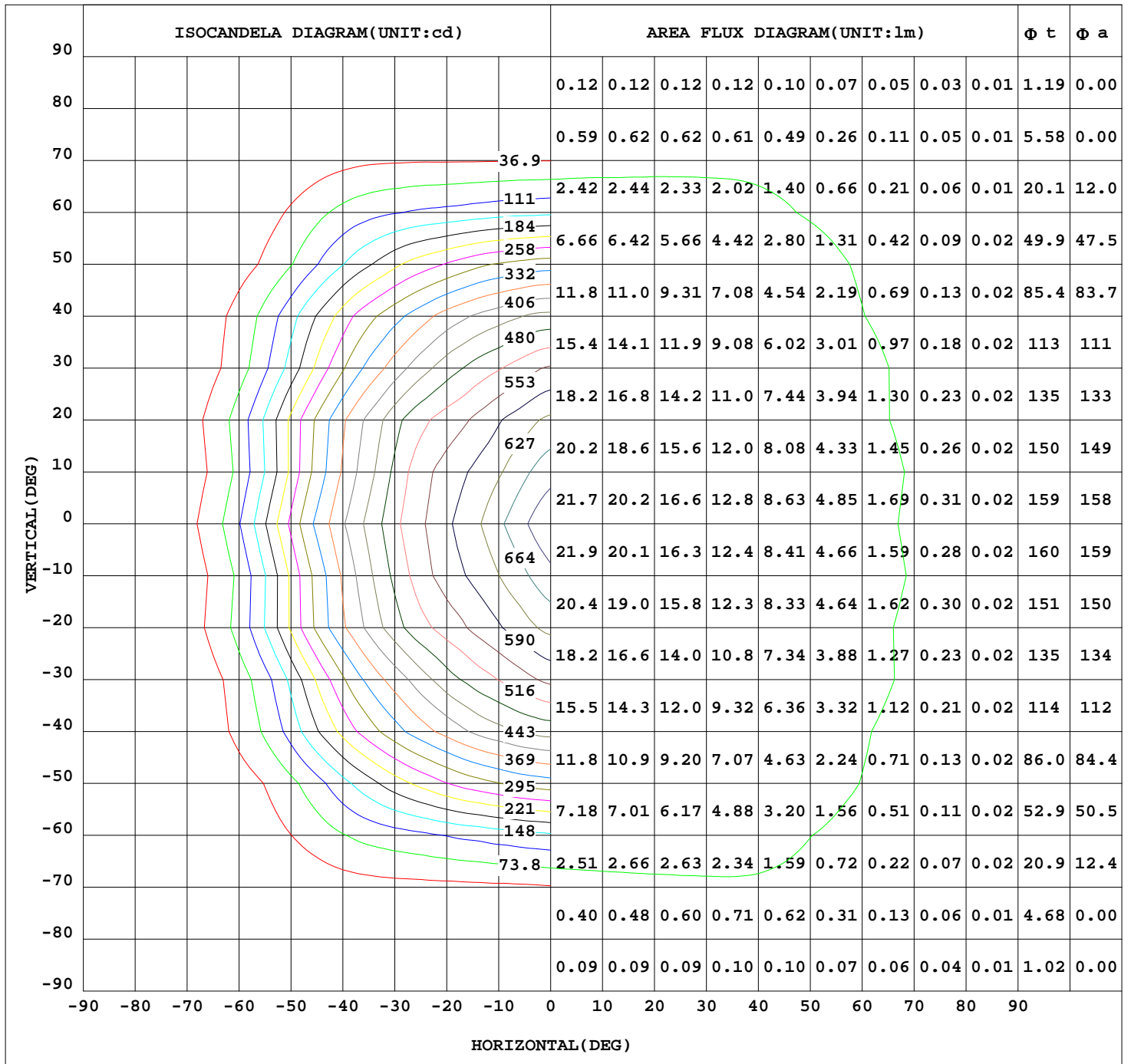
TOTAL FLUX : 1444 lm

EFFICIENCY : 90.3%

AVAILABILITY FLUX : 1399 lm

AVAILABILITY : 87.4%





$\Phi t$	0.11	0.90	4.80	20.5	54.7	95.5	133	162	185	195	182	153	119	80.1	42.0	14.1	2.76	0.32	1444	---
$\Phi a$	0	0	0.968	215.9	51.5	92.7	130	160	182	192	179	151	116	77.3	39.0	10.00	2.806	0	---	1399