

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	554.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of I _{max}	110.2V x 138.0H
	At 50% of I _{max}	75.2V x 125.3H
	At 90% of I _{max}	20.7V x 110.0H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of I _{max}	965.6 lumens per klm.
	To 50% of I _{max}	673.0 lumens per klm.
	To 90% of I _{max}	93.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

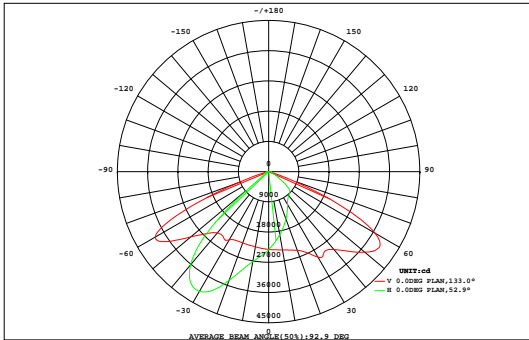
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:--
Test Date:2017-03-23

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:2.763A P:599.9W PF:0.9868 Lamp Flux:84344x1 lm		
NAME: 600W LED FLOOD LIGHT	TYPE:4000K	WEIGHT:
DIM.: PHILIPS LUMILEDS	SPEC.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:140.60lm/W	
MODEL	QH-FLHG-600W	Imax(cd)	46727
NOMINAL POWER(W)	599.889	AVAILABILITY(%)	96.6
RATED VOLTAGE(V)	220.0	Avai. FLUX(lm)	81464
NOMINAL FLUX(lm)	84344	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	84344
TEST VOLTAGE(V)	219.97	θ @50%(H,V)	125,75DEG

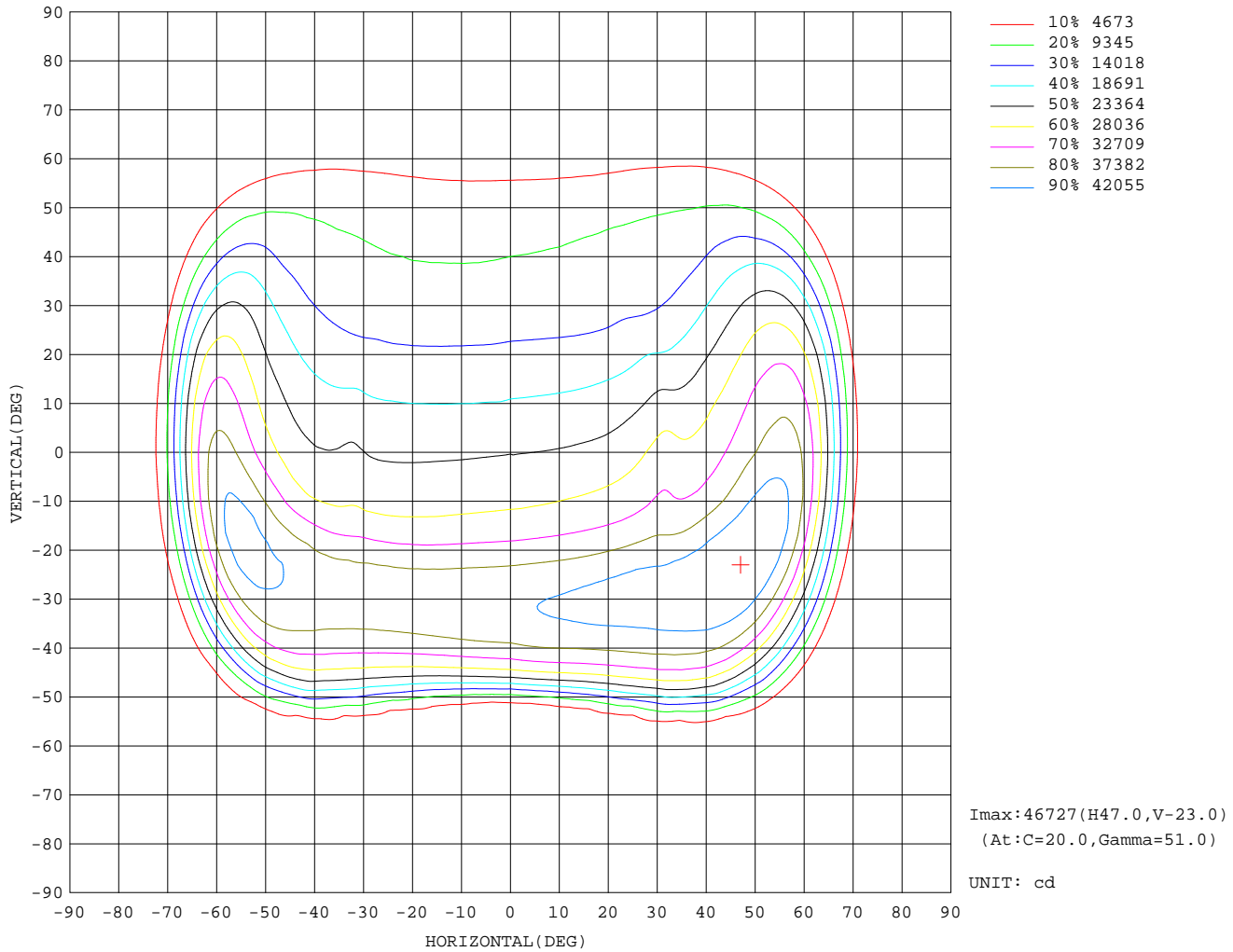
VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.05	0.34	0.88	1.78	3.15	5.46	7.92	11.6	16.5	16.2	11.4	8.06	5.60	3.30	1.98	1.04	0.42	0.07	95.9	0.00
80	0.16	1.45	3.80	7.87	13.1	18.5	22.4	25.6	28.0	27.8	25.7	22.7	18.8	12.9	7.50	3.64	1.32	0.17	241	0.00
70	0.32	2.99	7.70	17.7	34.7	48.4	48.0	48.3	52.0	52.7	50.2	51.3	50.3	34.9	17.5	6.99	2.41	0.30	527	0.00
60	0.49	4.53	16.6	71.4	126	149	155	151	152	156	162	170	163	132	64.4	14.4	3.44	0.42	1693	1259
50	0.65	6.07	54.7	195	236	235	243	254	264	269	269	266	269	276	186	41.4	4.60	0.53	3072	3015
40	0.78	9.13	132	335	316	287	285	293	302	309	312	318	347	410	351	102	6.74	0.63	4118	4081
30	0.88	15.1	228	442	392	357	362	376	391	402	404	420	449	520	488	185	10.1	0.70	5442	5412
	0.93	21.9	304	517	463	451	468	489	508	523	527	553	569	609	581	253	14.0	0.75	6850	6825
	0.94	26.0	348	583	530	548	576	607	632	646	651	679	686	684	648	291	16.5	0.78	8151	8127
	0.92	24.8	355	667	620	635	678	720	755	770	775	798	782	772	711	293	15.7	0.78	9373	9348
	0.88	19.0	314	737	778	784	825	871	912	934	944	950	919	908	744	252	12.2	0.75	10905	10878
-30	0.81	12.3	223	699	887	967	1050	1113	1159	1182	1182	1158	1087	984	671	173	8.54	0.69	12557	12523
-40	0.70	7.79	109	526	816	940	1046	1138	1200	1230	1217	1159	1062	876	480	80.0	6.23	0.61	11895	11851
-50	0.57	5.77	32.1	230	525	644	681	707	738	779	803	810	759	550	203	22.8	4.74	0.52	7497	7429
-60	0.43	4.23	12.4	35.8	97.2	128	109	90.2	82.2	87.7	108	147	167	105	32.6	10.9	3.51	0.42	1223	716
-70	0.29	2.78	7.75	13.1	19.8	26.5	32.5	36.3	38.9	40.2	39.1	35.2	28.5	21.3	13.7	6.99	2.44	0.30	366	0.00
-80	0.17	1.49	4.20	7.66	14.0	20.4	22.3	24.2	25.5	26.2	25.7	24.4	21.6	14.7	7.90	4.02	1.43	0.19	246	0.00
-90	0.06	0.41	1.18	2.41	4.79	8.01	9.47	9.34	9.00	9.41	10.3	10.6	8.65	5.03	2.51	1.19	0.45	0.08	92.9	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	10.0	166	2153	5088	5876	6253	6621	6964	7266	7461	7517	7580	7393	6919	5212	1742	115	8.68	84344	---
Φ a	0.00	48.2	2031	4970	5731	6073	6405	6717	6983	7186	7263	7366	7208	6776	5087	1608	11.0	0.00	---	81464

one-half-peak spread: U:22.4,D:53.4 , L:11.0,R:11.0 NEMA Beam Type: Type 7 x 6 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:--
Test Date:2017-03-23

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

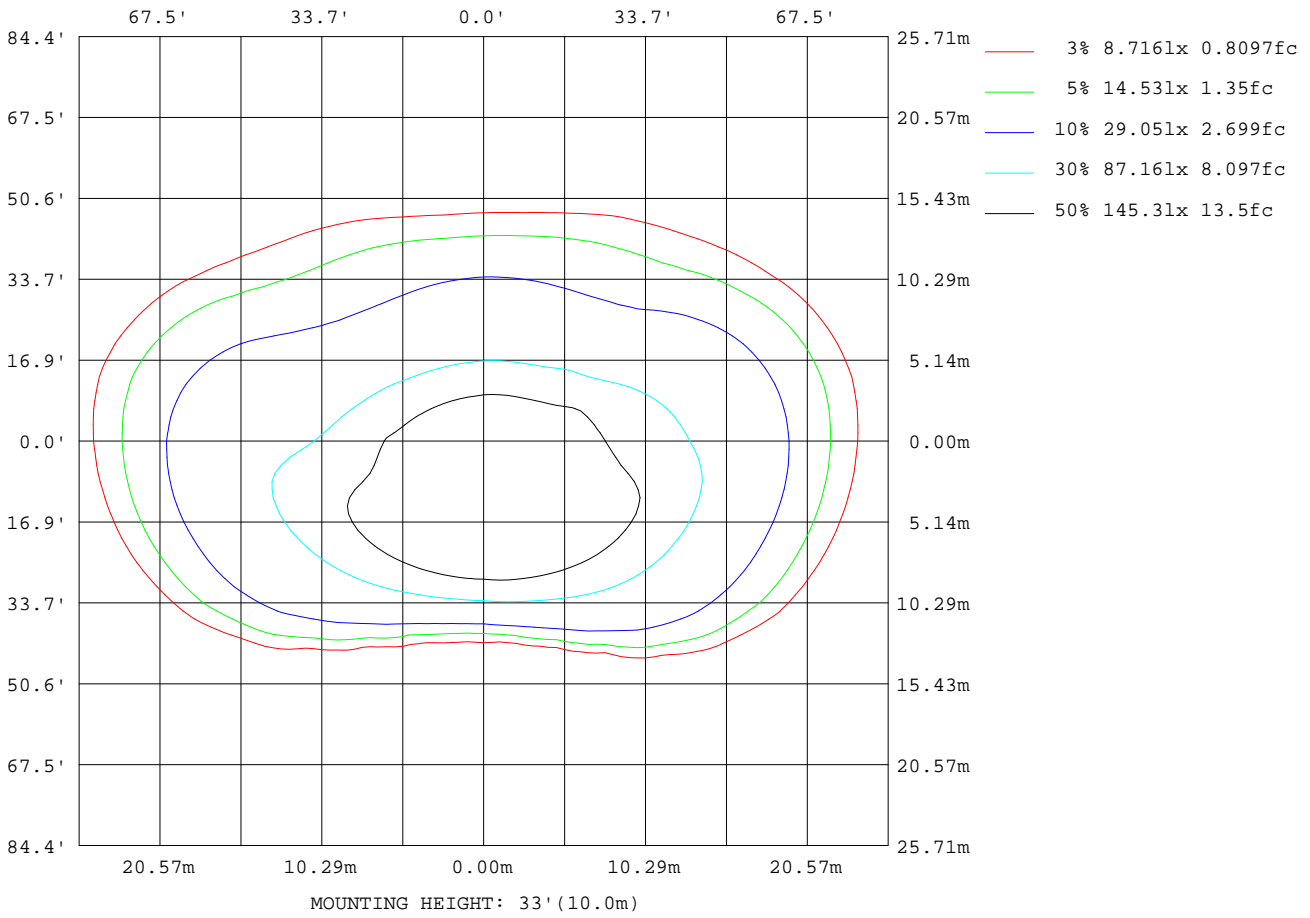
ISOCANDELA DIAGRAM



H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: --
Test Date: 2017-03-23

V(B) Range: -180 - 180DEG
V(B) Interval: 0.5DEG
Test System: EVERFINE GO-R3000_V2 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 10.000m [K=1.0000]
Remarks:

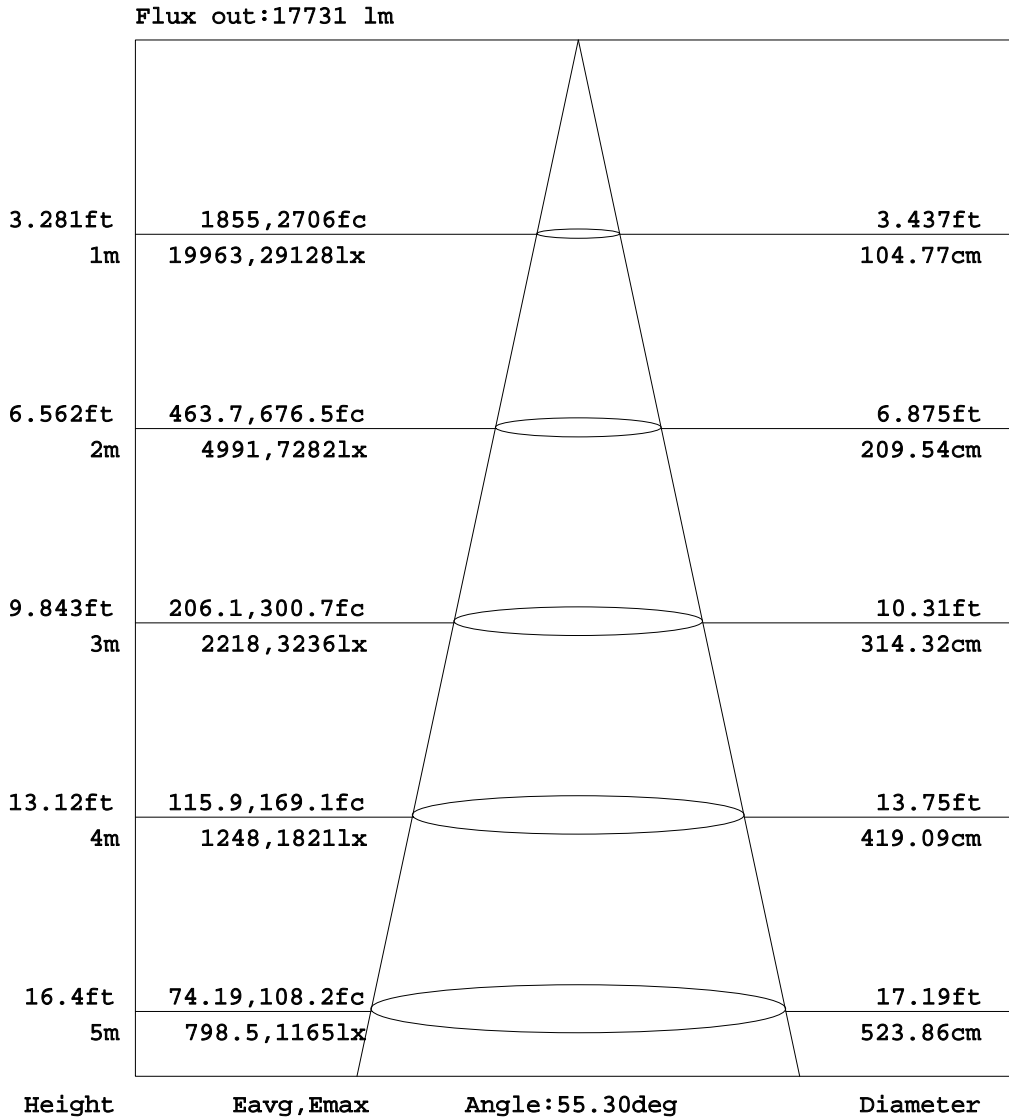
ISOLUX DIAGRAM



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:--
Test Date:2017-03-23

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

AAI Figure



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

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:--
Test Date:2017-03-23

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: ×10cd

H(DEG) V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-170	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-160	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-150	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-140	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-130	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-120	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-110	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-100	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	1.12	1.07	1.00	0.91	0.83	0.76	0.70	0.67	0.67	0.70	0.74	0.78	0.80	0.79	0.78	0.75	0.73	0.72	0.72
-80	1.12	2.51	6.82	10.9	16.0	20.5	24.1	28.9	35.5	47.0	58.7	62.7	62.5	63.2	63.9	63.2	62.2	61.8	61.6
-70	1.12	5.77	14.5	25.2	37.1	45.4	51.4	58.3	66.6	81.6	94.6	95.0	97.2	100	100	102	104	106	107
-60	1.12	8.82	23.2	42.6	60.7	76.5	86.4	93.2	101	114	114	129	123	141	143	151	154	157	159
-50	1.12	12.0	32.8	59.9	88.6	118	205	470	911	1267	1514	1447	1351	1172	1035	886	815	763	758
-40	1.12	15.2	42.2	77.7	128	348	1115	2267	3079	3380	3420	3396	3392	3402	3430	3476	3528	3581	3612
-30	1.12	18.1	50.3	95.1	257	1065	2630	3739	4107	4102	4026	3982	3976	3998	4013	4035	4072	4092	4115
-20	1.12	20.3	56.7	119	525	2019	3673	4361	4268	4015	3746	3578	3524	3431	3384	3372	3391	3415	3440
-10	1.12	21.7	60.8	150	810	2655	4039	4196	3711	3164	2844	2742	2718	2640	2629	2643	2665	2691	2716
0	1.12	22.1	62.0	171	978	2852	3895	3623	3019	2604	2381	2365	2345	2268	2259	2263	2274	2295	2315
10	1.12	22.2	62.6	158	920	2656	3518	3204	2663	2294	2076	2004	1958	1891	1868	1862	1866	1877	1904
20	1.12	21.2	60.6	126	679	2140	3002	2824	2348	1978	1735	1600	1547	1494	1470	1464	1469	1476	1503
30	1.12	19.2	56.2	96.8	394	1351	2254	2343	1994	1641	1402	1266	1182	1138	1114	1101	1098	1104	1124
40	1.12	16.3	48.7	80.9	165	602	1257	1602	1515	1287	1135	1037	982	946	925	920	919	925	934
50	1.12	12.8	39.0	66.5	82.9	181	455	733	867	878	847	821	801	788	774	771	763	765	773
60	1.12	9.01	27.4	47.5	59.9	71.4	102	170	254	315	355	362	341	316	285	266	265	268	275
70	1.12	5.30	16.0	27.4	35.3	43.2	56.1	67.7	78.6	88.2	97.4	103	103	101	99.7	100	101	102	104
80	1.12	2.24	5.89	9.64	12.3	15.6	18.1	23.0	28.9	33.5	37.9	45.9	53.8	57.3	62.7	76.4	90.7	99.8	103
90	1.12	1.16	1.17	1.11	1.03	0.94	0.85	0.78	0.72	0.70	0.69	0.70	0.72	0.75	0.79	0.83	0.91	1.08	1.23
100	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:--
Test Date:2017-03-23

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: ×10cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90		
-180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
-90	0.94	1.08	1.14	1.16	1.18	1.19	1.15	1.11	1.05	1.01	1.02	1.07	1.14	1.24	1.35	1.46	1.55	1.60		
-80	64.2	66.2	67.5	68.2	68.7	68.8	67.4	61.1	49.0	37.9	30.4	24.4	19.9	15.6	11.1	7.57	3.48	1.60		
-70	110	110	109	108	109	105	97.0	92.7	83.7	69.6	59.9	50.4	42.0	33.1	23.2	14.7	6.60	1.60		
-60	163	164	163	156	156	138	145	132	128	116	100	83.5	66.2	50.9	35.8	21.7	9.48	1.60		
-50	876	1019	1182	1392	1617	1801	1882	1748	1367	862	362	145	102	73.0	49.3	28.0	12.4	1.60		
-40	3705	3744	3765	3798	3843	3885	3891	3828	3554	2947	1987	859	206	104	64.2	34.8	15.1	1.60		
-30	4185	4225	4284	4350	4389	4409	4476	4539	4512	4206	3445	2172	742	161	77.5	41.0	17.4	1.60		
-20	3487	3543	3616	3716	3852	3974	4064	4304	4561	4627	4264	3186	1543	322	90.2	46.1	19.0	1.60		
-10	2751	2805	2872	2964	3110	3322	3293	3508	3873	4281	4352	3654	2084	518	112	49.3	20.0	1.60		
0	2337	2367	2417	2493	2655	2937	2903	3029	3347	3727	3980	3645	2277	635	124	50.1	20.2	1.60		
10	1928	1957	2004	2083	2224	2467	2490	2691	3015	3383	3623	3349	2127	596	116	49.1	20.0	1.60		
20	1521	1541	1571	1636	1763	1886	2014	2298	2649	3003	3176	2834	1673	432	90.3	46.2	19.1	1.60		
30	1136	1152	1182	1241	1293	1380	1568	1860	2200	2489	2534	2037	1010	242	72.4	42.0	17.4	1.60		
40	942	952	972	998	1040	1111	1216	1407	1639	1747	1587	1049	424	133	58.7	36.3	15.1	1.60		
50	786	799	819	833	859	883	912	951	967	872	651	357	154	69.0	48.3	29.1	12.3	1.60		
60	273	276	284	310	349	372	387	373	317	239	160	103	66.2	48.5	36.6	21.8	9.09	1.60		
70	103	102	102	102	103	104	106	99.8	87.7	75.7	63.8	51.3	39.8	31.5	22.5	14.4	6.08	1.60		
80	97.3	86.7	74.1	62.6	58.0	54.2	46.1	38.0	33.3	29.1	23.7	19.3	16.3	13.1	9.99	6.65	3.26	1.60		
90	1.22	1.15	1.09	1.03	1.01	1.00	1.00	1.02	1.04	1.09	1.15	1.24	1.36	1.48	1.56	1.62	1.63	1.60		
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:--
Test Date:2017-03-23

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-R3000_V2 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: