

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	485.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of I <sub>max</sub>	116.6V x 139.5H
	At 50% of I <sub>max</sub>	59.7V x 123.9H
	At 90% of I <sub>max</sub>	15.2V x 89.7H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of I <sub>max</sub>	968.5 lumens per klm.
	To 50% of I <sub>max</sub>	723.1 lumens per klm.
	To 90% of I <sub>max</sub>	169.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

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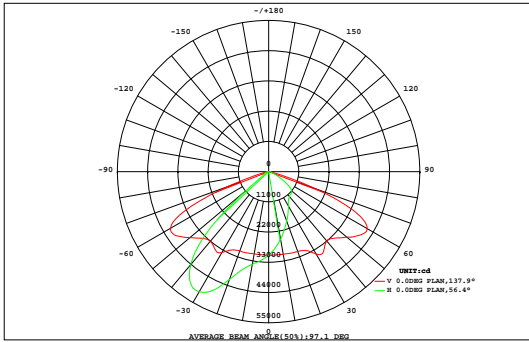
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:--  
Test Date:2017-03-23

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:220.1V I:3.645A P:785.7W PF:0.9795 Lamp Flux:106037x1 lm		
NAME: 800W LED FLOOD LIGHT	TYPE:4000K	WEIGHT:
DIM.: PHILIPS LUMILEDS	SPEC.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:134.97lm/W	
MODEL	QH-FLHG-800W	Imax(cd)	51431
NOMINAL POWER(W)	785.658	AVAILABILITY(%)	96.9
RATED VOLTAGE(V)	220.0	Avai. FLUX(lm)	102710
NOMINAL FLUX(lm)	106037	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	106037
TEST VOLTAGE(V)	220.068	θ @50%(H,V)	124,60DEG

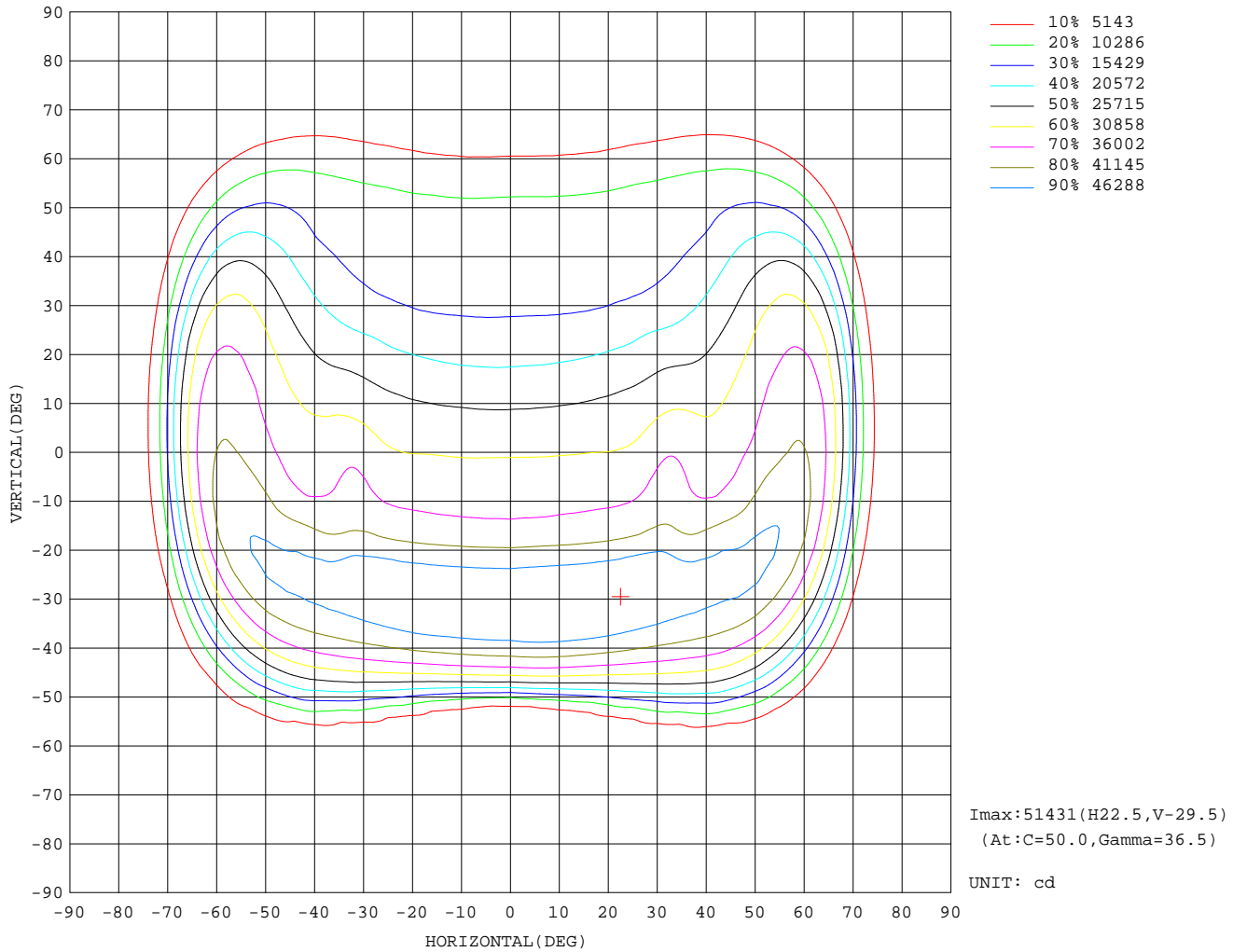
VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.09	0.69	1.83	3.44	5.75	8.99	13.3	18.5	19.6	19.6	18.9	14.0	9.60	6.41	4.11	2.33	0.97	0.16		
90	0.09	0.69	1.83	3.44	5.75	8.99	13.3	18.5	19.6	19.6	18.9	14.0	9.60	6.41	4.11	2.33	0.97	0.16	148	0.00
80	0.29	2.49	6.34	12.3	21.2	30.1	33.3	34.1	35.2	35.7	34.7	34.2	31.5	23.3	14.1	7.08	2.88	0.38	359	0.00
70	0.53	4.64	14.2	51.6	102	119	109	99.8	103	104	102	112	122	107	56.7	16.7	5.13	0.65	1231	451
60	0.79	7.11	50.9	179	257	266	265	258	258	261	263	271	273	261	186	56.1	8.15	0.93	3122	3050
50	1.03	12.5	131	344	381	346	334	338	346	349	341	337	350	384	347	142	14.1	1.18	4499	4455
40	1.23	22.3	236	489	486	425	393	385	387	389	386	395	427	487	489	249	24.6	1.38	5672	5638
30	1.37	34.0	329	583	578	539	521	506	507	511	513	531	543	577	581	342	37.8	1.53	7233	7206
	1.46	43.9	387	641	655	670	675	669	668	673	678	687	679	652	637	400	49.3	1.64	8868	8844
	1.50	47.5	414	681	716	793	813	829	842	845	834	823	806	713	677	428	53.5	1.68	10318	10293
	1.48	43.3	410	733	780	888	934	958	981	984	965	943	903	777	732	428	49.1	1.66	11514	11489
	1.43	33.0	367	780	913	1005	1081	1113	1132	1136	1121	1095	1016	912	788	390	37.4	1.59	12923	12894
-30	1.31	21.5	274	729	1006	1182	1332	1399	1429	1438	1414	1352	1187	1015	748	299	23.5	1.47	14852	14816
-40	1.16	13.0	152	550	878	1097	1283	1414	1476	1493	1438	1303	1115	901	577	170	14.1	1.30	13874	13826
-50	0.96	8.85	52.7	272	555	729	830	894	934	954	923	854	755	586	300	57.8	9.64	1.09	8717	8642
-60	0.74	6.66	19.2	58.7	138	181	168	133	114	118	141	179	197	152	64.0	20.1	7.13	0.84	1699	1104
-70	0.50	4.72	12.7	21.2	30.7	40.5	48.3	51.1	51.3	51.5	51.7	49.0	41.4	32.2	22.5	13.1	4.98	0.60	528	0.00
-80	0.28	2.63	7.62	13.2	20.9	29.1	32.2	33.3	33.0	33.2	33.6	32.8	30.0	21.8	13.7	7.84	2.85	0.36	348	0.00
-90	0.09	0.73	2.30	4.49	7.39	10.7	12.4	13.0	12.3	12.6	13.6	13.1	11.4	7.93	4.84	2.54	0.89	0.14	131	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	16.2	310	2867	6146	7530	8361	8877	9146	9328	9407	9273	9025	8496	7616	6242	3031	346	18.61	106037	---
Φ a	0.00	157	2732	6010	7370	8158	8625	8861	9009	9100	8982	8770	8293	7454	6105	2897	186	0.00	---	102710

one-half-peak spread: U:17.8,D:42.5 , L:39.2,R:39.2 IESNA 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:

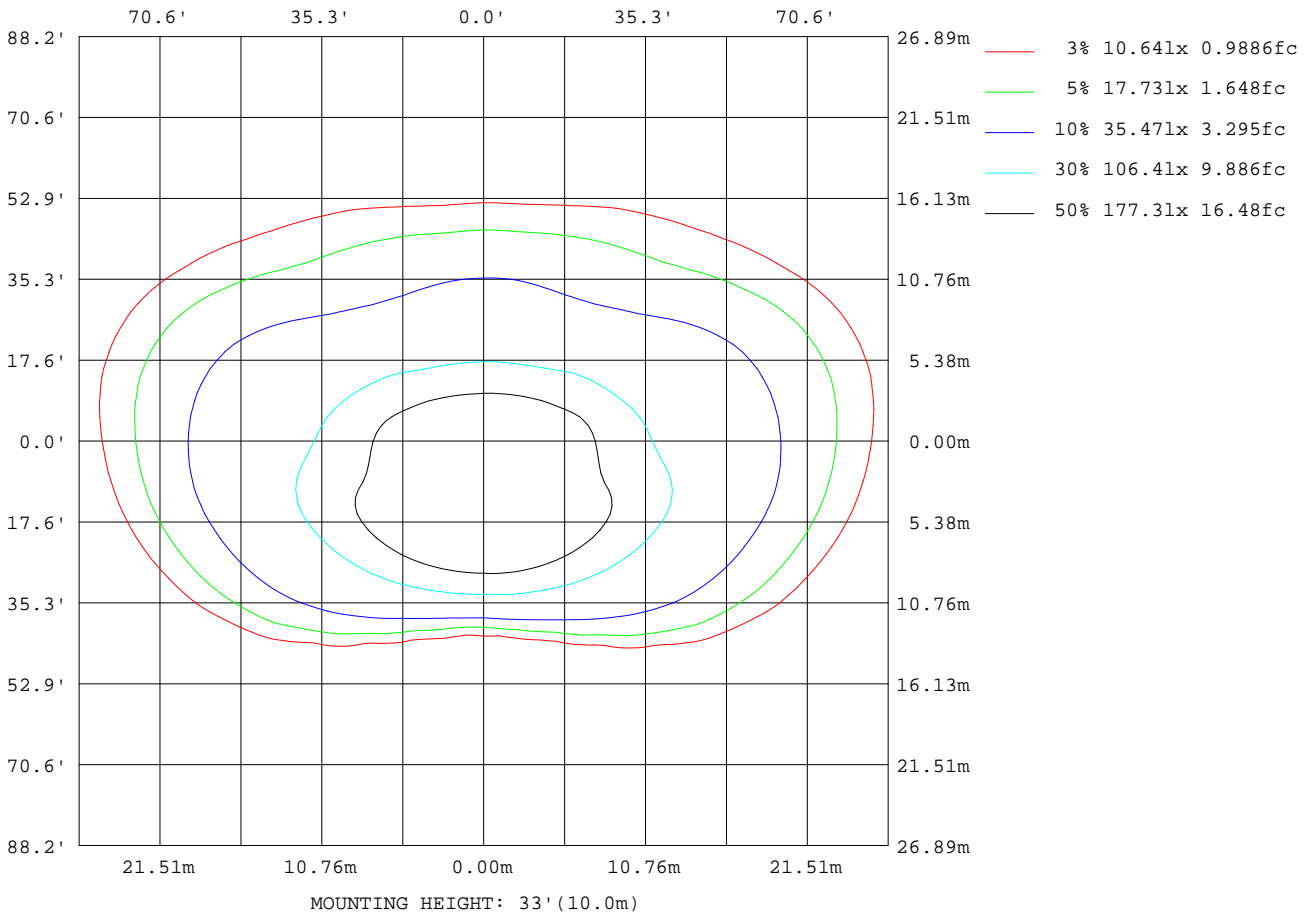
ISOCANDELA DIAGRAM



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) 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:

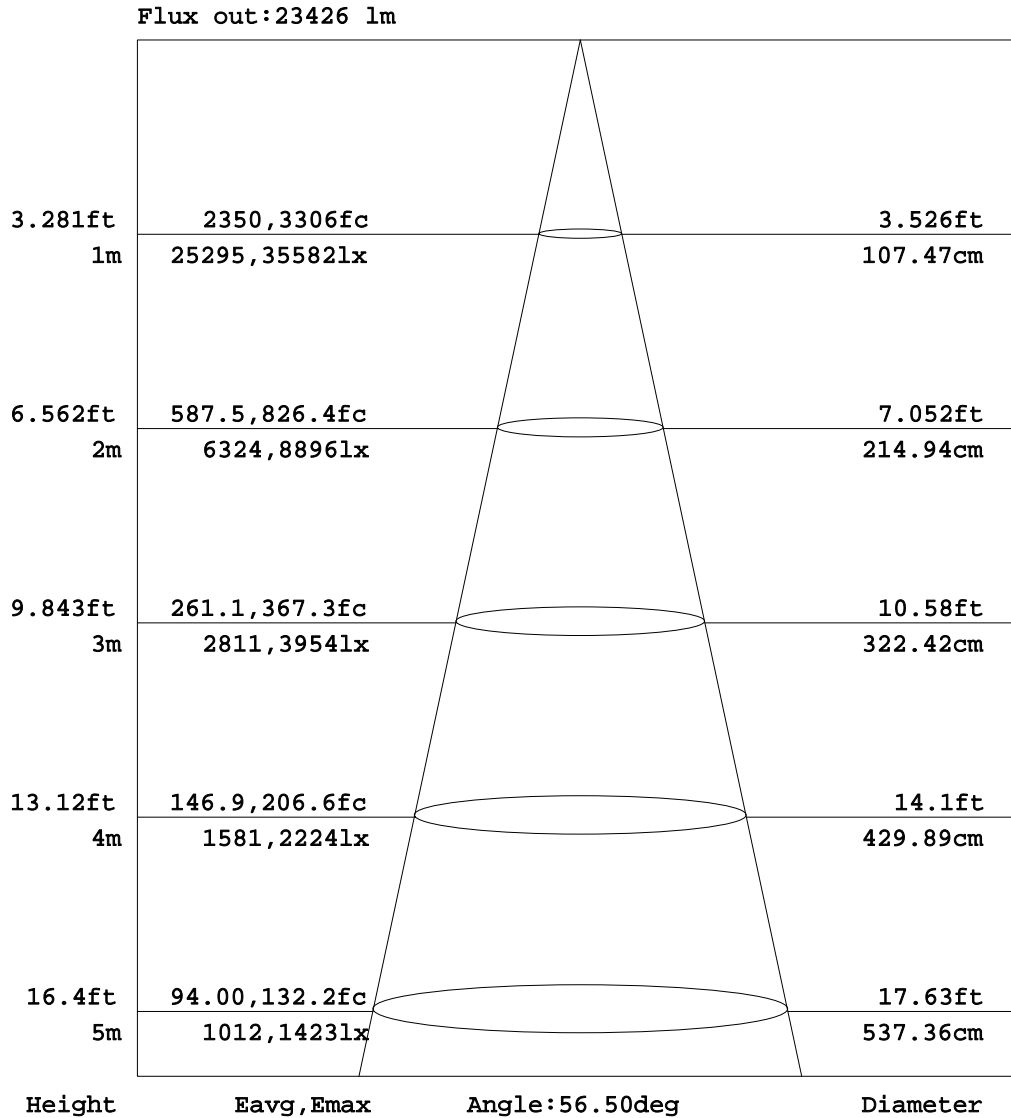
**ISOLUX DIAGRAM**



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) 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( $\beta$ ) Range: -90 - 90DEG  
H( $\beta$ ) 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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	1.51	1.41	1.32	1.23	1.15	1.09	1.04	1.01	1.01	1.02	1.02	1.01	0.99	0.96	0.93	0.90	0.87	0.85
-80	1.60	4.30	11.7	19.0	28.8	38.5	45.8	52.6	59.9	70.3	82.1	86.5	86.3	86.0	85.2	83.2	80.1	76.6	73.1
-70	1.60	9.86	24.8	44.6	64.5	79.2	89.3	95.9	104	118	131	139	148	150	150	148	146	144	142
-60	1.60	15.1	40.3	70.8	96.0	120	134	154	167	184	204	199	197	205	199	199	195	194	195
-50	1.60	20.3	55.7	91.5	133	176	354	686	1154	1533	1732	1771	1717	1622	1465	1330	1215	1134	1081
-40	1.60	25.4	68.5	116	210	584	1491	2438	3109	3501	3718	3856	3973	4084	4194	4275	4338	4388	4406
-30	1.60	30.2	79.1	160	448	1559	2898	3816	4318	4552	4679	4778	4894	5013	5057	5059	5057	5054	5047
-20	1.60	33.9	88.7	232	868	2513	3867	4509	4671	4612	4517	4448	4511	4403	4305	4244	4204	4180	4170
-10	1.60	36.1	95.8	325	1327	3121	4204	4471	4217	3814	3656	3712	3751	3575	3512	3469	3439	3431	3423
0	1.60	36.6	99.0	390	1578	3347	4119	4075	3737	3432	3310	3424	3395	3146	3073	3061	3039	3037	3039
10	1.60	36.6	98.2	389	1574	3270	3934	3845	3507	3186	2998	2962	2856	2701	2611	2557	2521	2499	2499
20	1.60	34.8	92.7	331	1319	2921	3622	3590	3250	2873	2579	2417	2312	2163	2057	1983	1936	1913	1919
30	1.60	31.4	84.1	225	899	2248	3095	3192	2883	2481	2141	1902	1735	1619	1522	1468	1445	1431	1437
40	1.60	26.6	73.6	140	503	1365	2223	2501	2337	2035	1728	1521	1374	1279	1221	1195	1180	1177	1184
50	1.60	21.3	60.2	97.6	204	596	1152	1527	1622	1529	1380	1269	1198	1147	1117	1105	1097	1097	1101
60	1.60	15.6	44.1	72.0	92.6	157	363	602	779	855	847	802	746	691	621	573	541	537	547
70	1.60	9.69	26.5	44.3	56.3	67.9	86.8	110	145	186	214	219	203	184	179	178	180	185	190
80	1.60	4.23	11.3	18.3	24.5	30.1	35.2	41.4	48.4	55.2	62.7	72.3	82.2	90.7	95.4	94.0	90.7	89.9	90.0
90	1.60	1.72	1.81	1.83	1.80	1.73	1.63	1.53	1.43	1.35	1.29	1.24	1.22	1.21	1.22	1.28	1.37	1.52	1.65
100	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	1.60	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	2.93
-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	2.93
-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	2.93
-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	2.93
-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	2.93
-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	2.93
-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	2.93
-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	2.93
-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	2.93
-90	1.10	1.28	1.34	1.37	1.41	1.44	1.45	1.45	1.44	1.45	1.50	1.60	1.76	1.96	2.19	2.43	2.69	2.93	
-80	77.6	81.7	85.0	87.4	89.0	89.9	90.3	85.7	73.7	62.5	54.8	47.1	40.4	31.5	21.8	14.3	6.81	2.93	
-70	144	146	148	150	151	150	143	135	124	110	100	92.2	81.0	66.2	47.5	28.7	12.7	2.93	
-60	196	199	204	205	213	205	209	205	195	181	165	141	125	100	75.1	44.2	18.5	2.93	
-50	1235	1339	1433	1556	1711	1818	1887	1866	1679	1299	801	365	187	142	98.5	60.9	24.4	2.93	
-40	4456	4434	4366	4271	4162	4049	3946	3826	3634	3258	2615	1669	650	228	129	75.0	30.4	2.93	
-30	5109	5125	5124	5138	5091	4933	4814	4729	4630	4425	3950	3082	1770	487	176	86.7	35.5	2.93	
-20	4199	4230	4273	4348	4471	4599	4448	4505	4631	4722	4585	3991	2730	1033	254	98.6	39.2	2.93	
-10	3440	3462	3491	3532	3605	3834	3782	3639	3801	4198	4467	4271	3303	1529	345	109	41.5	2.93	
0	3043	3052	3074	3091	3164	3457	3500	3295	3420	3707	4034	4135	3482	1768	411	114	42.1	2.93	
10	2515	2541	2586	2648	2743	2924	3018	2987	3179	3491	3807	3939	3382	1761	410	113	42.2	2.93	
20	1934	1963	2016	2094	2204	2363	2441	2576	2865	3230	3557	3627	3038	1493	348	105	40.6	2.93	
30	1443	1456	1485	1543	1642	1750	1911	2149	2478	2879	3179	3116	2386	1012	253	92.1	37.2	2.93	
40	1183	1181	1196	1223	1282	1379	1532	1744	2049	2342	2503	2283	1488	551	164	80.1	32.1	2.93	
50	1107	1111	1118	1130	1162	1215	1290	1401	1545	1625	1555	1231	664	237	114	66.9	25.9	2.93	
60	548	559	589	641	713	771	827	865	872	808	652	384	184	111	78.1	50.3	19.5	2.93	
70	188	185	181	182	189	207	224	227	206	165	135	102	75.5	61.4	50.0	31.6	13.1	2.93	
80	90.0	91.1	94.8	97.0	93.1	85.1	75.2	65.7	59.2	53.5	47.0	40.6	35.0	29.5	22.8	15.1	7.12	2.93	
90	1.69	1.69	1.68	1.68	1.71	1.77	1.87	2.01	2.19	2.40	2.64	2.89	3.10	3.26	3.33	3.30	3.15	2.93	
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	2.93	
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	2.93	
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	2.93	
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	2.93	
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	2.93	
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	2.93	
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	2.93	
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	2.93	
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	2.93	

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: