

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

Maximum Intensity		535.8 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal

Beam Spread	At 10% of I <sub>max</sub>	110.5V x 138.4H
	At 50% of I <sub>max</sub>	73.6V x 125.6H
	At 90% of I <sub>max</sub>	20.5V x 111.2H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of I <sub>max</sub>	966.8 lumens per klm.
	To 50% of I <sub>max</sub>	697.4 lumens per klm.
	To 90% of I <sub>max</sub>	158.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

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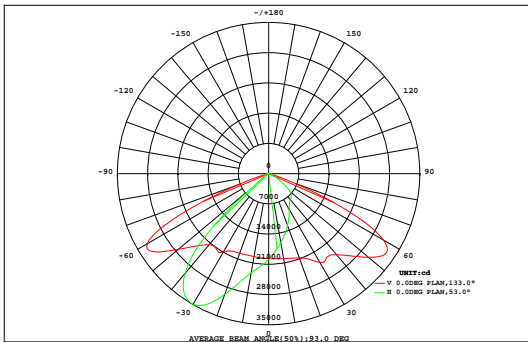
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:--  
Test Date:2017-03-23

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:219.9V I:2.305A P:498.2W PF:0.9831 Lamp Flux:70676x1 lm		
NAME: 500W LED FLOOD LIGHT	TYPE:4000K	WEIGHT:
DIM.: PHILIPS LUMILEDS	SPEC.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:141.86lm/W	
MODEL	QH-FLHG-500W	Imax(cd)	37865
NOMINAL POWER(W)	498.196	AVAILABILITY(%)	96.7
RATED VOLTAGE(V)	220.0	Avai. FLUX(lm)	68328
NOMINAL FLUX(lm)	70676	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	70676
TEST VOLTAGE(V)	219.869	θ @50%(H,V)	126,74DEG

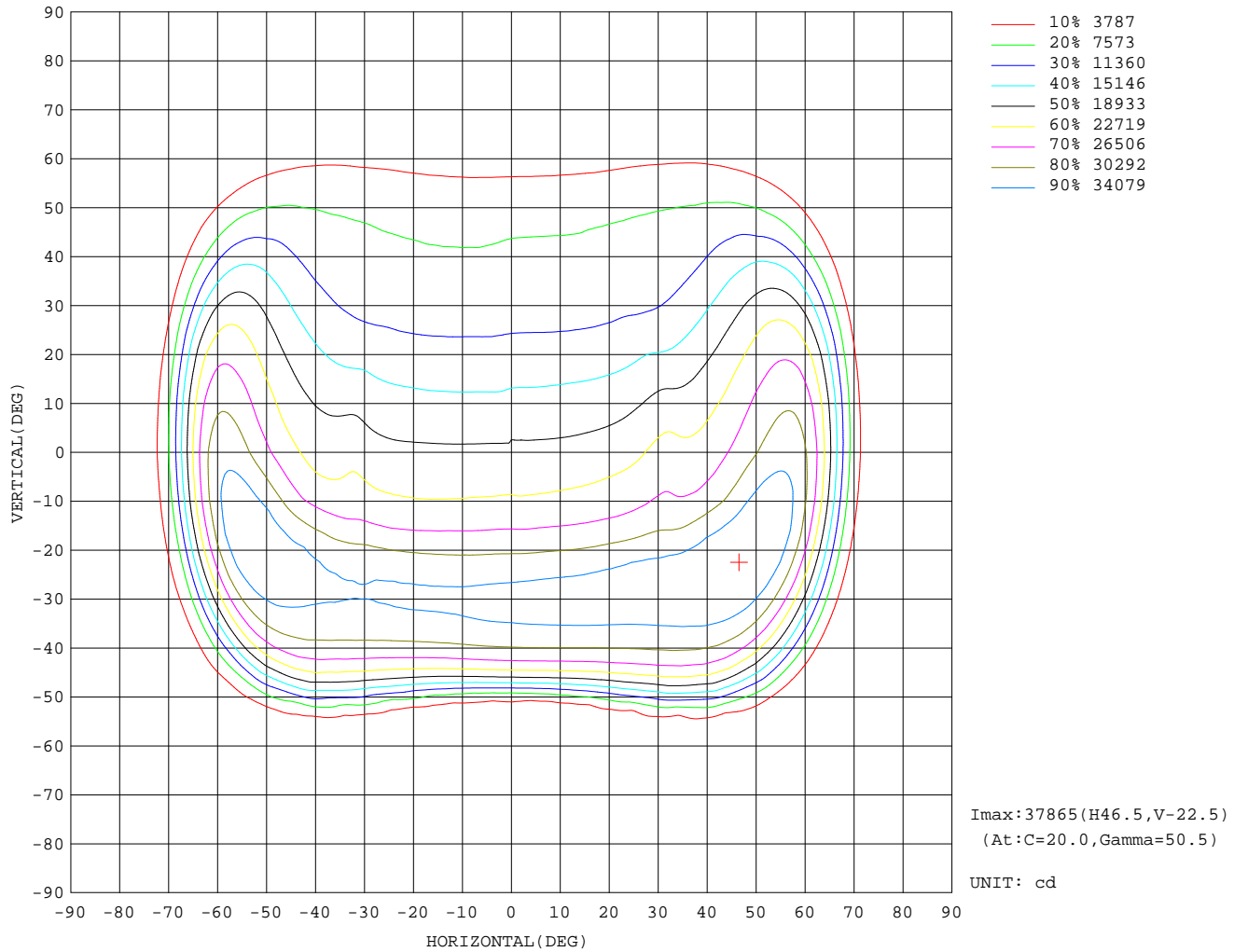
VERTICAL( DEG )	AREA FLUX DIAGRAM															UNIT:lm		Φ t	Φ a		
	0.03	0.24	0.67	1.41	2.55	4.56	6.67	9.68	13.6	13.2	9.40	6.90	4.96	3.10	1.91	1.02	0.40			0.06	80.4
90	0.03	0.24	0.67	1.41	2.55	4.56	6.67	9.68	13.6	13.2	9.40	6.90	4.96	3.10	1.91	1.02	0.40	0.06	80.4	0.00	
80	0.10	1.04	3.13	6.81	11.5	16.3	19.4	21.7	23.8	23.7	21.8	19.5	16.3	11.5	6.94	3.52	1.35	0.17	209	0.00	
70	0.21	2.26	6.47	15.6	31.1	43.1	42.5	41.9	45.1	45.9	43.6	45.0	44.9	31.8	15.9	6.38	2.36	0.29	465	0.00	
60	0.34	3.44	13.9	61.9	112	131	136	133	133	136	140	145	139	115	58.7	13.5	3.28	0.41	1475	1174	
50	0.46	4.66	45.4	168	211	204	208	215	222	225	222	220	221	228	161	38.9	4.33	0.51	2600	2556	
40	0.56	7.19	109	292	289	253	245	249	255	259	258	261	281	329	295	93.1	6.45	0.60	3482	3451	
30	0.64	11.9	186	386	360	321	317	322	332	339	338	346	363	415	402	163	9.69	0.66	4613	4590	
20	0.68	17.1	247	451	422	407	412	420	433	442	441	454	462	488	475	219	13.4	0.69	5805	5785	
10	0.70	20.1	282	509	481	492	506	523	538	548	545	559	556	549	531	250	15.4	0.70	6905	6884	
0	0.69	19.0	285	577	562	569	597	622	646	652	651	656	634	626	586	250	14.5	0.70	7945	7925	
-10	0.66	14.5	249	623	695	701	732	762	790	798	795	789	760	744	613	215	11.2	0.67	9293	9270	
-20	0.59	9.02	174	576	762	840	915	963	994	1005	992	959	891	797	550	146	7.73	0.62	10583	10556	
-30	0.50	5.82	82.7	422	683	802	892	962	1009	1020	993	933	849	700	391	66.9	5.45	0.55	9819	9783	
-40	0.40	4.34	23.0	177	427	543	572	583	601	612	617	619	582	426	159	19.4	4.14	0.47	5969	5911	
-50	0.30	3.10	9.22	25.2	71.2	98.9	84.5	67.6	61.9	62.1	71.4	94.5	107	71.2	25.2	9.32	3.10	0.38	867	443	
-60	0.20	1.96	5.66	10.3	16.1	21.8	26.6	29.6	31.7	32.5	31.3	28.2	22.9	17.2	11.1	5.95	2.17	0.27	295	0.00	
-70	0.10	0.98	2.95	5.85	11.2	16.6	18.2	19.6	20.6	21.0	20.6	19.4	17.5	11.9	6.51	3.47	1.28	0.17	198	0.00	
-80	0.03	0.25	0.77	1.70	3.64	6.35	7.63	7.48	7.16	7.37	8.00	8.36	6.97	4.17	2.14	1.04	0.39	0.06	73.5	0.00	
-90	0.03	0.25	0.77	1.70	3.64	6.35	7.63	7.48	7.16	7.37	8.00	8.36	6.97	4.17	2.14	1.04	0.39	0.06	73.5	0.00	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL( DEG )	20	30	40	50	60	70	80	90				
Φ t	7.21	127	1726	4309	5150	5471	5737	5952	6156	6242	6199	6163	5959	5568	4291	1505	107	7.98	70676	---	
Φ a	0.00	36.7	1631	4214	5035	5325	5560	5747	5929	6013	5993	5989	5809	5448	4188	1396	13.5	0.00	---	68328	

one-half-peak spread: U:22.7,D:51.5 , L:12.4,R:1NEMA 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:

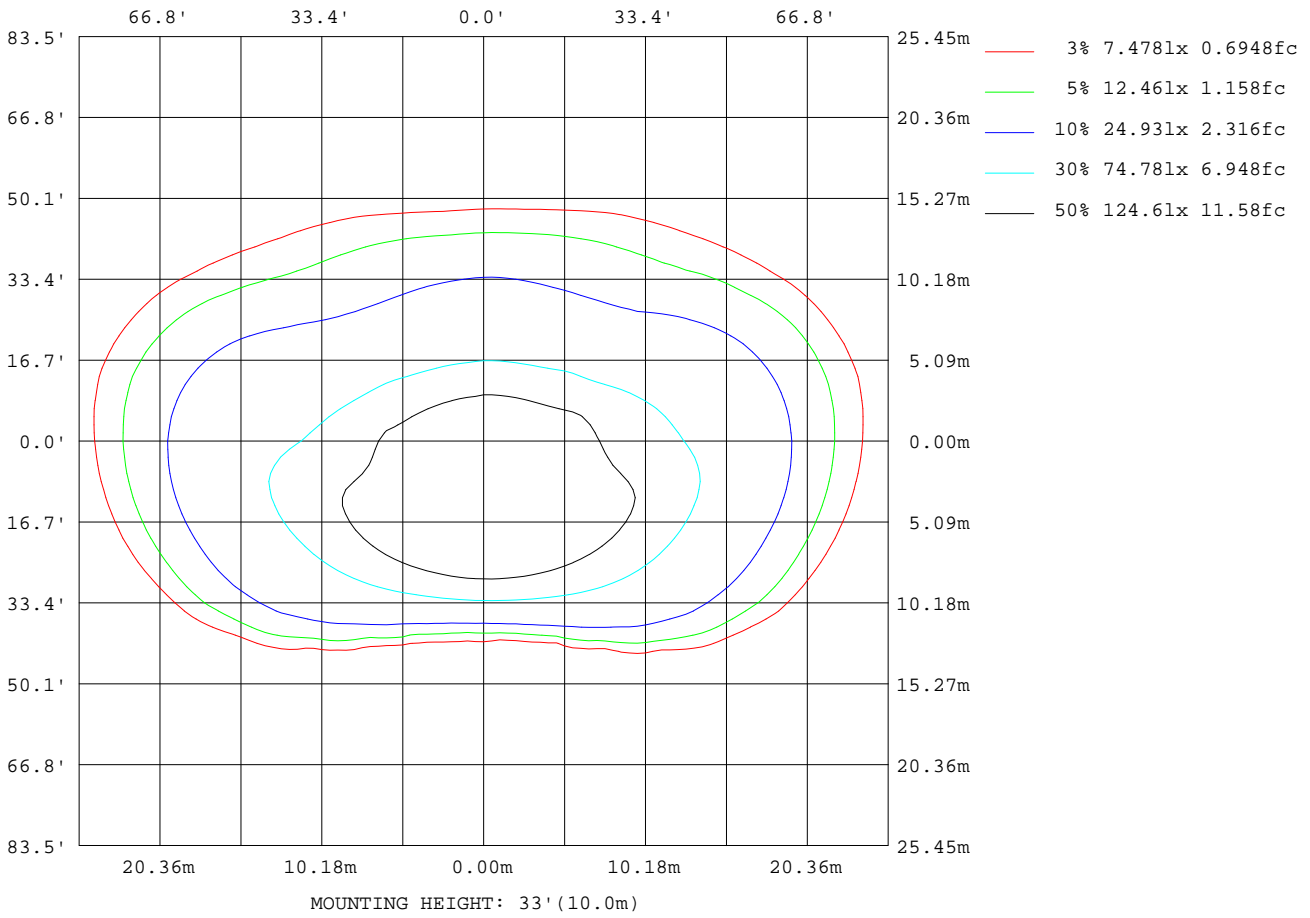
ISOCANDELA DIAGRAM



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:

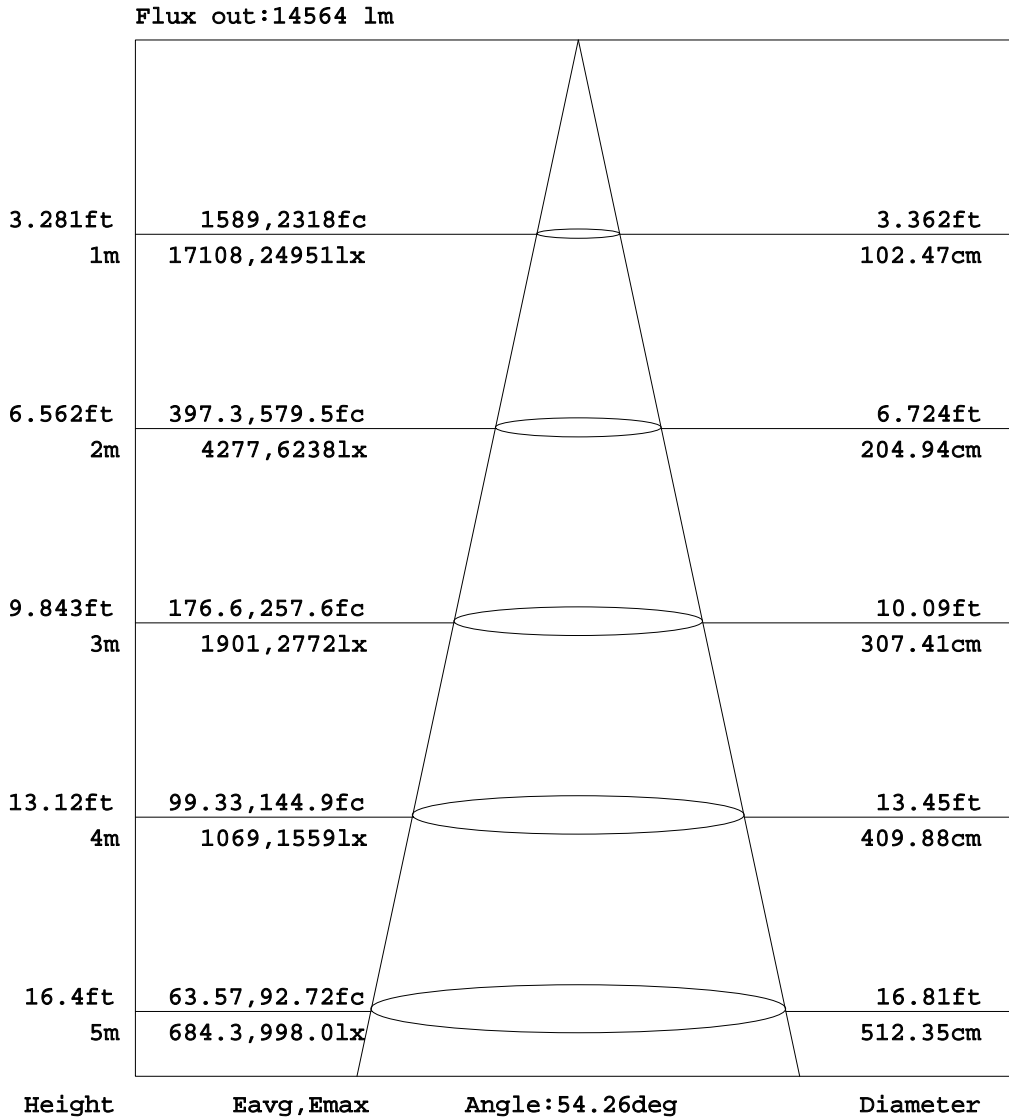
**ISOLUX DIAGRAM**



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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.75	0.70	0.64	0.59	0.55	0.52	0.52	0.53	0.57	0.62	0.65	0.68	0.67	0.66	0.65	0.63	0.62	0.60
-80	0.80	1.41	4.13	6.90	10.0	13.5	16.8	20.9	26.7	36.6	46.4	49.9	49.9	50.3	50.6	49.7	48.8	48.6	48.5
-70	0.80	3.48	9.64	17.1	25.8	32.5	38.4	45.2	53.1	66.2	78.0	78.5	79.8	82.1	82.0	83.1	85.2	86.4	86.9
-60	0.80	5.80	16.1	30.7	44.1	55.9	66.2	74.0	82.5	92.2	89.5	106	99.6	115	118	122	125	127	129
-50	0.80	8.17	23.7	45.0	66.0	88.2	122	321	674	957	1224	1177	1117	932	834	651	592	516	503
-40	0.80	10.5	31.4	59.6	93.3	231	844	1778	2486	2800	2890	2893	2886	2886	2897	2912	2948	2988	3007
-30	0.80	12.5	38.1	73.3	174	803	2070	3031	3419	3477	3437	3416	3407	3428	3439	3441	3449	3473	3490
-20	0.80	14.1	43.7	91.2	413	1580	2953	3628	3674	3517	3327	3169	3114	3036	2986	2960	2949	2962	2975
-10	0.80	15.1	47.1	115	620	2101	3312	3592	3319	2871	2566	2456	2425	2337	2299	2289	2298	2309	2328
0	0.80	15.4	48.3	132	753	2286	3246	3160	2726	2371	2151	2119	2094	1984	1961	1950	1950	1957	1967
10	0.80	15.5	48.0	123	715	2136	2946	2806	2409	2091	1878	1801	1758	1661	1622	1603	1594	1595	1623
20	0.80	14.7	45.7	97.8	533	1729	2515	2463	2134	1820	1583	1438	1386	1315	1275	1258	1254	1254	1278
30	0.80	13.2	41.7	74.8	310	1096	1889	2044	1809	1510	1279	1127	1036	990	958	939	935	935	953
40	0.80	11.2	35.9	61.3	133	499	1056	1386	1352	1173	1011	905	845	807	787	778	771	774	782
50	0.80	8.68	28.5	49.3	66.8	151	387	628	758	778	744	714	694	680	666	662	655	658	666
60	0.80	5.93	19.3	35.9	47.2	60.6	88.6	151	224	284	318	323	305	283	255	236	231	233	240
70	0.80	3.38	10.7	19.8	28.2	36.2	47.7	58.9	68.7	77.5	86.0	90.5	89.4	86.4	85.5	85.7	86.7	88.3	89.6
80	0.80	1.43	3.94	6.74	8.97	12.0	15.1	19.4	24.7	29.2	33.5	40.1	47.0	50.3	54.6	65.4	76.9	85.8	90.0
90	0.80	0.84	0.86	0.85	0.82	0.77	0.73	0.68	0.64	0.62	0.62	0.62	0.62	0.64	0.67	0.71	0.78	0.94	1.09
100	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	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	1.06	
-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	1.06	
-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	1.06	
-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	1.06	
-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	1.06	
-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	1.06	
-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	1.06	
-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	1.06	
-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	1.06	
-90	0.78	0.89	0.93	0.93	0.96	0.96	0.94	0.89	0.83	0.78	0.75	0.76	0.78	0.83	0.88	0.94	1.00	1.06		
-80	50.3	51.7	52.7	53.5	54.0	54.2	53.6	49.0	39.6	30.9	25.2	20.8	17.5	14.0	9.88	6.77	2.91	1.06		
-70	88.6	88.9	87.5	86.7	87.2	84.3	80.0	77.8	68.7	56.6	48.8	41.7	36.0	29.1	20.8	13.3	5.94	1.06		
-60	130	131	130	126	123	110	115	101	103	94.9	80.3	69.5	56.8	44.4	32.0	19.5	8.51	1.06		
-50	549	638	746	921	1092	1260	1311	1247	965	625	263	126	87.1	63.6	43.4	25.3	11.2	1.06		
-40	3024	3025	3025	3033	3045	3066	3074	3025	2827	2367	1604	693	179	87.7	56.0	31.2	13.8	1.06		
-30	3505	3527	3539	3571	3576	3585	3621	3644	3619	3400	2823	1802	633	150	67.7	36.4	16.1	1.06		
-20	2989	3020	3061	3131	3223	3313	3378	3554	3725	3774	3499	2662	1314	291	81.0	40.7	17.6	1.06		
-10	2332	2363	2409	2469	2561	2694	2695	2859	3152	3520	3588	3059	1786	469	103	43.4	18.5	1.06		
0	1979	1997	2028	2078	2185	2372	2359	2451	2692	3011	3268	3062	1966	580	118	44.2	18.7	1.06		
10	1630	1647	1675	1731	1836	2001	2032	2169	2414	2713	2956	2818	1848	554	112	43.9	18.7	1.06		
20	1287	1294	1318	1361	1450	1533	1629	1842	2115	2405	2600	2400	1483	412	86.1	42.0	18.1	1.06		
30	958	963	983	1027	1066	1126	1268	1484	1749	2010	2104	1763	916	238	67.4	38.9	16.7	1.06		
40	785	788	799	820	856	909	990	1137	1321	1441	1360	938	403	130	55.1	34.5	14.5	1.06		
50	672	677	687	698	718	739	765	797	815	753	583	334	149	63.5	45.8	28.5	11.8	1.06		
60	238	240	249	271	306	327	340	330	286	222	154	90.6	59.5	45.3	35.7	21.8	8.83	1.06		
70	89.0	87.9	87.2	87.0	86.9	89.9	90.2	86.1	76.9	67.4	57.4	46.8	37.3	30.7	22.9	14.7	5.93	1.06		
80	83.7	73.5	63.2	54.2	50.7	47.9	41.5	35.0	31.3	27.9	23.1	19.1	16.7	13.7	10.3	6.77	2.86	1.06		
90	1.08	1.02	0.96	0.91	0.89	0.89	0.91	0.92	0.94	0.97	1.01	1.05	1.11	1.16	1.18	1.17	1.12	1.06		
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	1.06		
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	1.06		
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	1.06		
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	1.06		
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	1.06		
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	1.06		
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	1.06		
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	1.06		
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	1.06		

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: