

STN-SR 01 200W



Light Output Ratio:	66.7%
Luminaire Power:	214.7 W
90% Beam Spread	49.1V x 51.0H
50% Beam Lumens	476.4 lumens per klm.

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-04-10

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks: 200W

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	286.8 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	142.0V x 146.6H
	At 50% of I _{max}	97.3V x 106.1H
	At 90% of I _{max}	49.1V x 51.0H

Beam Flux	Total	667.3 lumens per klm.
	To 10% of I _{max}	648.0 lumens per klm.
	To 50% of I _{max}	476.4 lumens per klm.
	To 90% of I _{max}	79.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	66.7 %

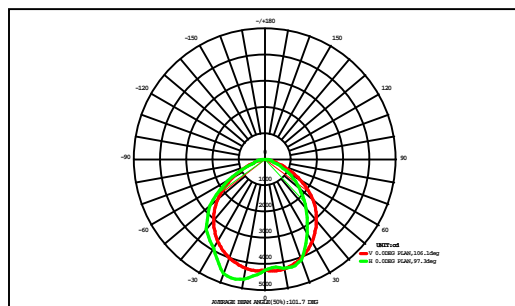
Luminaire Efficiency(Light Output Ratio)	66.7 %
--	--------

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-04-10

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks: 200W

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.9824A P:214.7W PF:0.9935 Lamp Flux:16500x1 lm		
NAME: STN-SR 01 200W	TYPE:	WEIGHT:
SPEC.:STN-SR 01 200W	DIM.:	SERIAL No.:
MFR.: STN	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:51.29lm/W	
MODEL	STN-SR 01 200W	I _{max} (cd)	4732
NOMINAL POWER(W)	200	AVAILABILITY(%)	64.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	10693
NOMINAL FLUX(lm)	16500	LOR(%)	66.7
LAMPS INSIDE	1	TOTAL FLUX(lm)	11013
TEST VOLTAGE(V)	219.8	q @50%(H,V)	106,97DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.00	0.03	0.11	0.40	0.91	1.57	2.17	2.61	2.84	2.87	2.69	2.29	1.69	1.03	0.48	0.14	0.03	0.00	21.9	0.00
90	0.00	0.03	0.11	0.40	0.91	1.57	2.17	2.61	2.84	2.87	2.69	2.29	1.69	1.03	0.48	0.14	0.03	0.00	21.9	0.00
80	0.00	0.04	0.25	1.06	2.60	4.60	6.45	7.81	8.50	8.61	8.08	6.85	5.00	2.97	1.30	0.33	0.05	0.00	64.5	0.00
70	0.00	0.16	1.27	3.97	7.97	12.6	16.7	19.8	21.2	21.4	20.1	17.2	13.1	8.54	4.38	1.48	0.22	0.01	170	128
60	0.01	0.39	3.28	9.38	17.4	26.0	33.7	39.4	41.9	42.1	39.7	34.1	26.6	18.2	9.97	3.68	0.55	0.01	346	335
50	0.01	0.76	5.60	15.0	27.1	39.8	51.3	59.7	63.1	63.4	60.0	51.7	40.5	28.0	15.8	6.22	1.03	0.02	529	522
40	0.02	1.32	8.27	21.2	37.8	54.8	70.0	81.1	85.8	86.3	81.8	70.7	55.6	38.9	22.3	9.04	1.65	0.03	727	722
30	0.03	1.83	10.8	27.8	49.4	70.9	90.1	104	110	111	105	90.8	71.7	50.4	29.0	11.7	2.23	0.05	937	933
20	0.04	2.24	12.7	32.6	57.4	82.1	104	120	127	128	121	105	82.7	58.3	33.9	13.9	2.71	0.06	1083	1080
10	0.04	2.51	13.6	33.5	57.8	82.1	104	119	126	127	120	104	82.6	58.5	34.6	14.6	3.00	0.07	1084	1081
0	0.04	2.64	14.2	34.8	60.5	86.8	110	127	135	135	127	110	87.0	61.1	35.5	14.8	3.09	0.07	1145	1142
-10	0.03	2.52	13.9	34.8	61.2	89.5	115	133	142	143	134	116	90.7	62.7	36.0	15.0	2.97	0.06	1191	1188
-20	0.02	2.10	12.5	31.9	56.9	83.3	106	122	130	130	122	106	83.2	57.5	33.0	13.6	2.56	0.04	1093	1090
-30	0.02	1.53	10.1	26.5	48.6	71.8	91.9	106	112	113	106	91.6	71.8	49.5	27.8	11.2	1.94	0.03	941	937
-40	0.01	0.87	6.95	19.8	38.2	58.5	76.4	89.2	94.4	95.0	89.6	76.8	59.3	39.9	21.5	8.10	1.22	0.02	776	771
-50	0.01	0.43	4.02	12.7	25.5	39.8	52.6	62.1	66.2	66.9	63.1	53.9	41.3	27.1	14.1	4.88	0.64	0.01	535	527
-60	0.00	0.18	1.56	5.29	11.3	18.5	25.2	30.3	32.6	33.0	31.1	26.5	20.0	12.7	6.25	2.01	0.27	0.01	257	235
-70	0.00	0.03	0.21	1.05	2.94	5.64	8.29	10.3	11.4	11.7	11.0	9.28	6.74	3.92	1.63	0.39	0.06	0.01	84.6	2.17
-80	0.00	0.02	0.10	0.42	1.08	2.01	2.93	3.63	3.99	4.08	3.84	3.26	2.38	1.41	0.62	0.17	0.04	0.01	30.0	0.00
-90	0.00	0.02	0.10	0.42	1.08	2.01	2.93	3.63	3.99	4.08	3.84	3.26	2.38	1.41	0.62	0.17	0.04	0.01	30.0	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
F t	0.29	19.6	119	312	565	830	1066	1236	1314	1322	1247	1075	842	581	328	131	24.3	0.52	11013	---
F a	0.00	4.31	103	299	549	811	1043	1209	1285	1294	1220	1051	821	564	314	116	7.98	0.00	---	10693

one-half-peak spread: U:39.7,D:27.6 , L:45.8,R:46.5

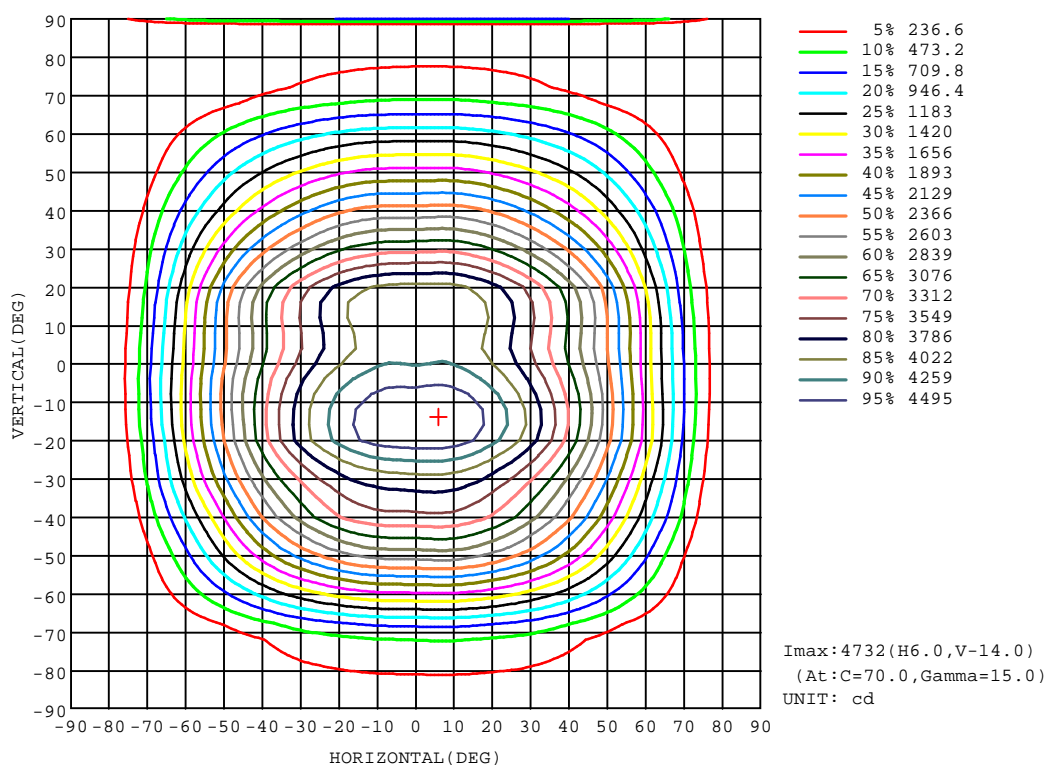
NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-04-10

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks: 200W

ISOCANDELA DIAGRAM

Test:U:220.0V I:0.9824A P:214.7W PF:0.9935 Lamp Flux:16500x1 lm		
NAME: STN-SR 01 200W	TYPE:	WEIGHT:
SPEC.:STN-SR 01 200W	DIM.:	SERIAL No.:
MFR.: STN	SUR.:	PROTECTION ANGLE:

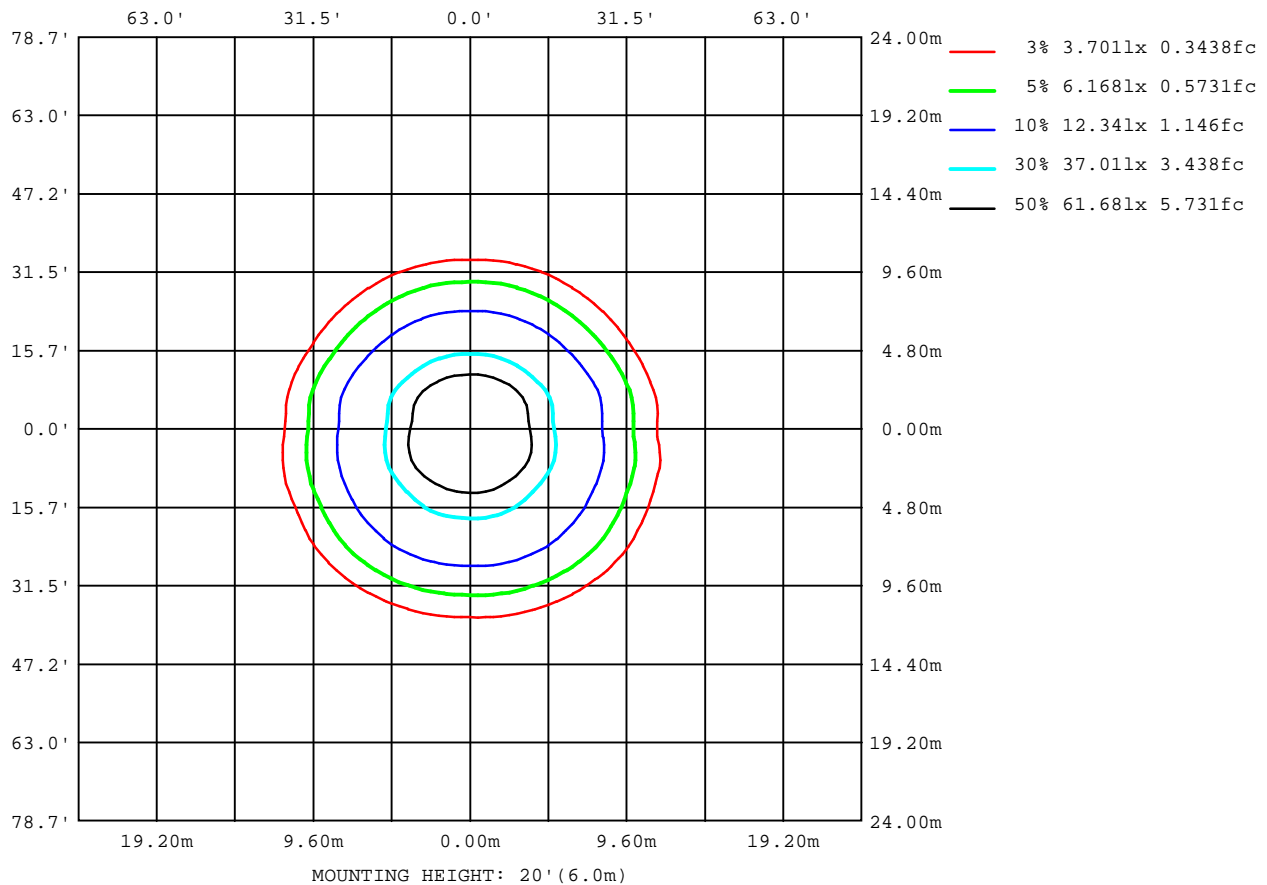


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-04-10

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks: 200W

ISOLUX DIAGRAM

Test:U:220.0V I:0.9824A P:214.7W PF:0.9935 Lamp Flux:16500x1 lm		
NAME: STN-SR 01 200W	TYPE:	WEIGHT:
SPEC.:STN-SR 01 200W	DIM.:	SERIAL No.:
MFR.: STN	SUR.:	PROTECTION ANGLE:

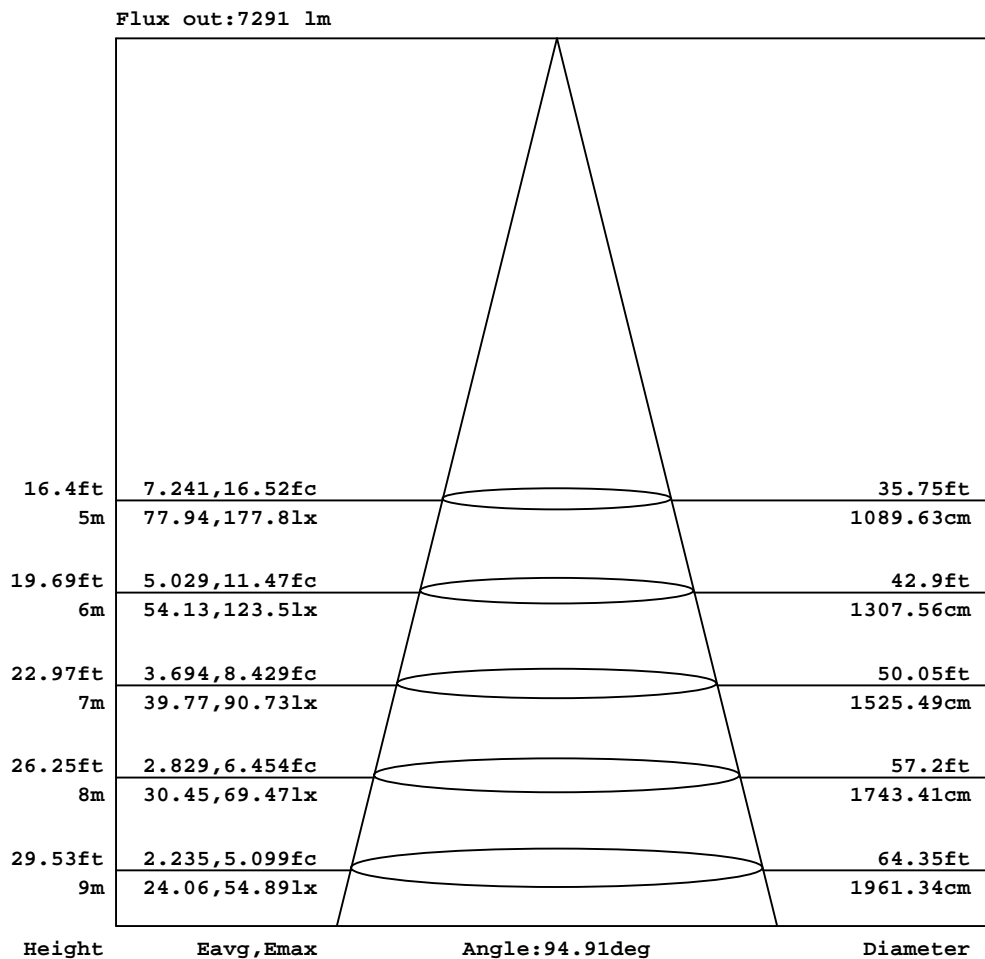


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-04-10

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks: 200W

AAI Figure

Test:U:220.0V I:0.9824A P:214.7W PF:0.9935 Lamp Flux:16500x1 lm		
NAME: STN-SR 01 200W	TYPE:	WEIGHT:
SPEC.:STN-SR 01 200W	DIM.:	SERIAL No.:
MFR.: STN	SUR.:	PROTECTION ANGLE:

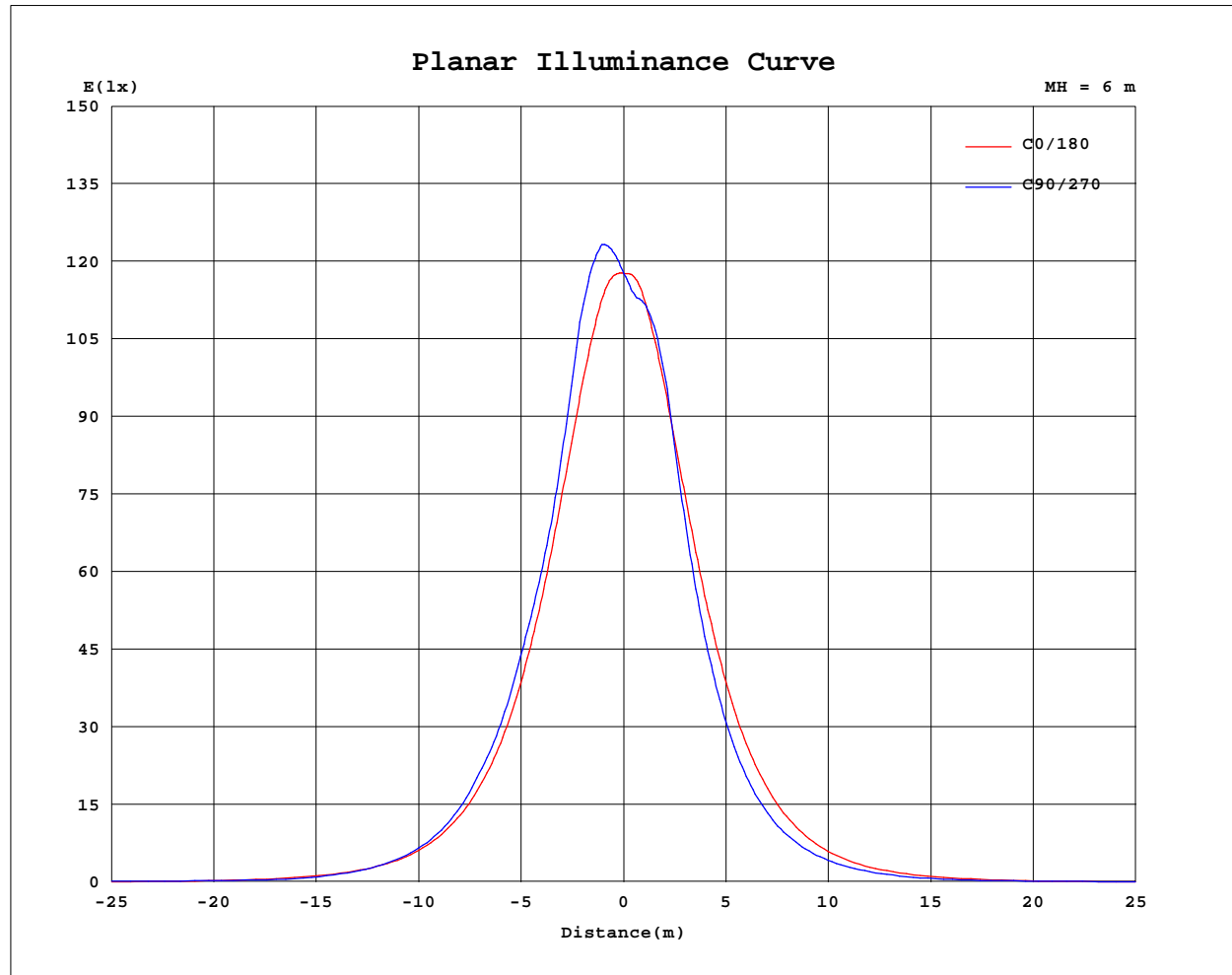


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-04-10

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks: 200W

Planar Illuminance Curve



H(h) Range:-90 - 90DEG
 H(h) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2013-04-10

V(B) Range:-90 - 90DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks: 200W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.9824A P:214.7W PF:0.9935 Lamp Flux:16500x1 lm		
NAME: STN-SR 01 200W	TYPE:	WEIGHT:
SPEC.:STN-SR 01 200W	DIM.:	SERIAL No.:
MFR.: STN	SUR.:	PROTECTION ANGLE:

Table--1
UNIT: cd

H(°) \ V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.82	1.48	1.43	1.46	1.57	1.64	1.68	1.66	1.60	1.53	1.42	1.29	1.18	1.05	0.97	0.93	0.88	0.87	0.87
-85	0.82	1.44	1.44	2.20	3.53	5.66	10.8	18.7	28.6	40.1	52.4	64.7	76.4	85.1	92.7	99.2	104	105	107
-80	0.82	1.38	1.45	3.31	6.46	11.7	24.5	44.4	69.1	97.9	129	160	189	211	230	247	258	262	266
-75	0.82	1.35	1.45	4.05	8.42	15.7	33.6	61.4	96.1	136	180	223	265	295	322	345	361	367	372
-70	0.82	1.29	1.46	5.16	11.4	21.8	47.3	87.1	137	194	256	318	377	421	460	492	515	524	531
-65	0.82	1.26	2.97	13.4	45.1	94.9	167	256	353	456	559	659	747	817	876	925	955	965	972
-60	0.82	1.22	5.23	25.8	95.6	205	347	509	677	850	1014	1169	1301	1410	1501	1573	1615	1627	1635
-55	0.82	1.19	6.74	34.1	129	278	467	678	893	1112	1317	1509	1670	1805	1918	2005	2055	2068	2077
-50	0.82	1.14	9.00	46.5	180	388	647	931	1218	1505	1772	2020	2224	2399	2542	2653	2715	2729	2739
-45	0.82	1.17	11.8	69.9	245	491	777	1081	1397	1718	2014	2280	2503	2695	2848	2958	3018	3032	3040
-40	0.81	1.21	16.0	105	343	646	971	1305	1666	2037	2377	2670	2921	3139	3307	3417	3474	3487	3492
-35	0.82	1.30	20.7	140	406	739	1093	1461	1837	2210	2553	2842	3089	3300	3463	3575	3635	3655	3667
-30	0.82	1.44	27.8	193	500	879	1275	1696	2094	2468	2816	3100	3342	3542	3699	3812	3878	3906	3929
-25	0.82	1.46	32.0	214	535	927	1353	1789	2204	2602	2971	3289	3557	3778	3952	4082	4161	4194	4215
-20	0.82	1.48	38.3	246	587	998	1470	1929	2369	2802	3202	3572	3880	4132	4332	4486	4585	4627	4645
-15	0.84	1.61	45.0	268	622	1048	1518	1975	2411	2831	3229	3593	3905	4166	4370	4529	4638	4693	4712
-10	0.81	1.57	48.1	278	643	1075	1537	1996	2450	2862	3233	3583	3887	4141	4342	4490	4593	4640	4651
-5	0.82	1.68	51.5	288	654	1081	1531	1993	2433	2833	3188	3517	3796	4035	4224	4358	4452	4490	4485
0	0.81	1.63	50.2	280	629	1051	1484	1930	2346	2725	3062	3359	3615	3832	4002	4132	4227	4261	4239
5	0.82	1.85	52.7	277	617	1035	1470	1910	2316	2675	3001	3287	3536	3747	3912	4035	4126	4157	4145
10	0.81	2.33	49.4	253	582	996	1435	1900	2312	2687	3010	3300	3556	3775	3944	4072	4165	4208	4211
15	0.82	2.87	47.8	244	566	974	1418	1878	2307	2693	3025	3318	3575	3797	3978	4107	4196	4237	4242
20	0.81	2.61	39.2	218	507	903	1322	1761	2178	2561	2884	3179	3437	3659	3839	3966	4043	4081	4085
25	0.83	2.41	34.4	199	471	830	1217	1617	1997	2348	2645	2912	3147	3349	3516	3632	3703	3737	3742
30	0.84	2.11	27.3	170	417	720	1059	1400	1725	2029	2286	2512	2711	2884	3031	3130	3194	3220	3227
35	0.84	1.77	23.1	142	364	642	945	1247	1537	1813	2052	2261	2447	2608	2744	2838	2894	2912	2915
40	0.84	1.24	16.8	98.8	285	525	774	1017	1256	1489	1702	1885	2050	2195	2315	2400	2445	2451	2447
45	0.85	1.10	14.3	77.6	232	442	664	883	1098	1304	1491	1656	1801	1928	2033	2110	2151	2158	2157
50	0.87	0.89	10.6	45.7	152	318	500	682	861	1025	1175	1311	1427	1529	1612	1674	1709	1718	1721
55	0.87	0.88	8.76	37.8	124	259	409	561	713	852	980	1098	1198	1286	1357	1410	1441	1449	1452
60	0.87	0.85	5.94	25.9	81.4	170	273	380	489	592	689	779	854	921	974	1015	1038	1046	1049
65	0.87	0.83	4.06	17.9	53.1	111	182	259	340	419	495	566	625	677	719	751	769	777	781
70	0.87	0.80	1.23	6.01	10.6	21.8	46.3	77.5	117	159	203	247	281	312	337	355	367	374	378
75	0.87	0.82	1.17	5.00	8.69	17.6	37.3	62.2	93.7	128	163	198	225	250	270	284	294	300	303
80	0.88	0.85	1.07	3.48	5.79	11.4	23.7	39.3	59.0	80.1	102	124	141	157	169	178	184	187	189
85	0.88	0.87	1.01	2.47	3.86	7.23	14.6	24.0	35.8	48.5	61.7	74.7	85.1	94.3	102	107	111	113	114
90	0.88	0.90	0.91	0.95	0.97	1.00	1.02	1.06	1.06	1.04	1.01	0.97	0.94	0.89	0.86	0.82	0.80	0.78	0.77

H(h) Range:-90 - 90DEG
 H(h) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2013-04-10

V(B) Range:-90 - 90DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks: 200W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.9824A P:214.7W PF:0.9935 Lamp Flux:16500x1 lm		
NAME: STN-SR 01 200W	TYPE:	WEIGHT:
SPEC.:STN-SR 01 200W	DIM.:	SERIAL No.:
MFR.: STN	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

H(°)\V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	0.95	1.01	1.16	1.29	1.39	1.50	1.67	1.87	2.05	2.23	2.34	2.40	2.49	2.54	2.58	2.54	2.35	0.93	
-85	108	108	105	101	95.1	87.2	76.8	65.2	52.6	39.8	28.0	18.0	10.0	5.56	4.11	2.87	2.31	0.92	
-80	269	268	261	249	236	216	190	160	128	96.1	66.5	41.4	21.4	10.1	6.40	3.36	2.26	0.90	
-75	376	375	365	349	329	302	265	223	179	134	92.2	56.9	28.9	13.1	7.93	3.69	2.22	0.89	
-70	536	535	521	497	470	430	377	318	255	190	131	80.3	40.3	17.7	10.2	4.18	2.16	0.87	
-65	981	979	954	914	865	799	718	624	521	413	308	212	127	61.3	24.3	6.51	2.28	0.87	
-60	1647	1644	1603	1538	1457	1352	1228	1083	921	747	574	410	256	127	45.4	10.0	2.45	0.87	
-55	2092	2088	2036	1955	1851	1721	1568	1389	1187	970	752	542	343	170	59.5	12.3	2.57	0.87	
-50	2758	2754	2685	2579	2444	2274	2078	1847	1586	1304	1018	741	472	236	80.6	15.8	2.74	0.87	
-45	3058	3048	2975	2863	2715	2531	2318	2072	1793	1490	1178	874	582	310	113	20.6	3.17	0.87	
-40	3508	3489	3411	3289	3122	2915	2678	2409	2103	1769	1418	1075	745	422	162	27.8	3.81	0.88	
-35	3681	3658	3580	3453	3286	3081	2841	2568	2257	1913	1546	1177	825	481	193	35.0	3.99	0.90	
-30	3940	3913	3834	3698	3533	3330	3087	2805	2489	2130	1738	1331	944	569	239	45.8	4.25	0.92	
-25	4224	4192	4100	3950	3769	3548	3283	2974	2630	2250	1846	1426	1012	612	268	53.7	4.43	0.92	
-20	4649	4610	4500	4328	4124	3875	3576	3228	2841	2431	2008	1568	1114	677	310	65.6	4.71	0.92	
-15	4725	4695	4587	4420	4213	3955	3649	3295	2907	2482	2041	1586	1132	695	321	69.7	4.60	0.92	
-10	4678	4650	4544	4385	4171	3917	3622	3285	2920	2513	2059	1593	1145	722	342	80.3	4.81	0.94	
-5	4512	4482	4386	4239	4042	3802	3522	3204	2857	2461	2025	1566	1122	712	341	84.2	4.65	0.92	
0	4265	4248	4156	4023	3841	3612	3357	3065	2746	2394	1984	1544	1113	709	341	85.4	5.09	0.92	
5	4174	4163	4077	3949	3772	3550	3296	3013	2704	2362	1971	1536	1103	693	332	84.2	5.69	0.92	
10	4227	4210	4124	3991	3815	3596	3344	3056	2731	2376	1976	1546	1104	676	322	79.9	7.30	0.92	
15	4250	4228	4135	3996	3818	3597	3341	3051	2726	2358	1950	1505	1062	640	303	73.2	6.87	0.89	
20	4087	4072	3988	3853	3679	3461	3208	2927	2609	2248	1843	1409	985	589	277	66.8	6.70	0.90	
25	3748	3735	3659	3535	3374	3174	2943	2684	2394	2061	1690	1291	905	542	250	57.5	6.08	0.89	
30	3240	3230	3165	3059	2916	2742	2544	2320	2070	1782	1461	1114	784	472	210	43.5	5.14	0.87	
35	2930	2923	2865	2768	2637	2477	2293	2088	1857	1596	1306	1001	703	420	183	36.4	4.59	0.87	
40	2464	2463	2415	2331	2218	2079	1916	1740	1538	1317	1074	831	583	342	141	25.8	3.77	0.86	
45	2169	2166	2121	2047	1947	1824	1683	1527	1348	1150	933	714	493	283	113	21.4	3.03	0.85	
50	1725	1720	1681	1621	1541	1443	1333	1208	1064	899	721	540	357	194	70.2	14.9	1.93	0.82	
55	1456	1451	1418	1367	1299	1215	1120	1012	888	747	596	444	292	158	57.8	12.5	1.70	0.82	
60	1052	1048	1024	986	936	873	800	717	623	519	409	299	194	104	39.1	8.86	1.36	0.82	
65	783	779	761	733	694	645	587	521	447	367	283	203	129	67.7	26.7	6.45	1.13	0.82	
70	379	376	367	352	332	304	267	226	182	138	95.9	58.8	31.9	13.5	8.07	2.85	0.79	0.82	
75	303	301	294	282	265	243	214	181	146	111	76.9	47.3	25.7	11.0	6.64	2.45	0.80	0.82	
80	190	188	184	176	166	152	134	113	91.7	69.7	48.4	29.9	16.4	7.22	4.49	1.86	0.81	0.82	
85	114	113	111	106	100	91.7	80.7	68.4	55.4	42.2	29.5	18.3	10.2	4.70	3.05	1.46	0.82	0.82	
90	0.78	0.78	0.80	0.81	0.85	0.90	0.91	0.94	0.96	0.96	0.97	0.97	0.95	0.93	0.90	0.87	0.84	0.83	

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-04-10

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks: 200W