
STN-SR01 100W



Light Output Ratio:	67.2%
Luminaire Power:	92.03 W
90% Beam Spread	29.3V x 61.0H
50% Beam Lumens	479.9 lumens per klm.

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	299.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	140.1V x 140.4H
	At 50% of Imax	93.5V x 102.9H
	At 90% of Imax	29.3V x 61.0H

Beam Flux	Total	671.0 lumens per klm.
	To 10% of Imax	655.3 lumens per klm.
	To 50% of Imax	479.9 lumens per klm.
	To 90% of Imax	127.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	67.1 %

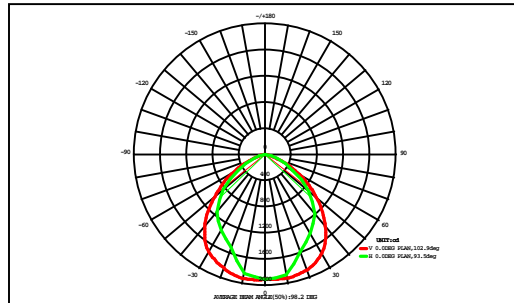
Luminaire Efficiency(Light Output Ratio)	67.2 %
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H(b) Range:-90 - 90DEG
 H(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2013-08-05

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.9V I:0.4199A P:92.03W PF:0.9924 Lamp Flux:6440x1 lm		
NAME: STN-SR01 100W	TYPE:	WEIGHT:
SPEC.:STN-SR01 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:47.00lm/W	
MODEL	STN-SR01 100W	Imax(cd)	1926
NOMINAL POWER(W)	100	AVAILABILITY(%)	65.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	4233
NOMINAL FLUX(lm)	6440	LOR(%)	67.2
LAMPS INSIDE	1	TOTAL FLUX(lm)	4325
TEST VOLTAGE(V)	220.4	q @50%(H,V)	103,93DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.01	0.07	0.32	0.85	1.53	2.16	2.56	2.69	2.67	2.52	2.12	1.51	0.84	0.31	0.06	0.01	0.00	20.2	0.00
80	0.00	0.04	0.36	1.54	3.58	5.95	8.13	9.62	10.1	9.99	9.46	7.96	5.81	3.48	1.46	0.32	0.03	0.00	77.8	65.8
70	0.00	0.10	1.08	3.79	7.84	12.6	16.9	19.8	20.4	20.2	19.4	16.6	12.3	7.74	3.69	1.02	0.09	0.00	163	159
60	0.00	0.24	2.04	6.24	12.5	20.0	26.4	30.4	31.5	31.3	29.9	26.2	19.8	12.6	6.24	1.99	0.22	0.00	258	255
50	0.01	0.42	2.99	8.39	16.5	25.9	33.5	37.9	39.6	39.6	37.8	33.5	25.8	16.6	8.47	2.90	0.38	0.01	330	328
40	0.01	0.56	3.85	10.5	20.0	30.5	39.0	43.6	45.0	45.0	43.4	38.9	30.3	19.9	10.6	3.77	0.54	0.01	385	384
30	0.01	0.68	4.60	12.6	23.9	36.1	45.5	50.6	52.2	52.0	50.4	45.4	35.6	23.7	12.8	4.65	0.66	0.01	451	450
20	0.01	0.71	5.00	13.8	26.3	39.6	49.6	55.8	58.4	58.3	56.1	50.3	40.0	26.8	14.5	5.28	0.75	0.01	501	500
10	0.01	0.70	4.99	13.7	26.3	39.3	49.0	55.0	57.5	57.5	55.6	50.0	39.9	26.7	14.4	5.26	0.75	0.01	497	495
0	0.01	0.61	4.39	12.0	23.5	35.5	44.8	50.0	51.9	52.3	51.0	45.9	36.5	24.5	13.0	4.79	0.71	0.01	452	450
-10	0.01	0.49	3.61	9.94	19.2	29.0	36.9	41.4	42.7	43.0	42.0	37.6	29.6	19.9	10.6	3.92	0.58	0.01	370	369
-20	0.00	0.32	2.72	7.95	15.7	24.6	31.8	36.2	37.9	37.8	36.2	31.9	24.7	16.1	8.47	3.05	0.43	0.01	316	314
-30	0.00	0.18	1.85	5.88	11.9	19.0	25.2	29.1	30.5	30.5	29.3	25.5	19.5	12.4	6.25	2.09	0.25	0.00	249	247
-40	0.00	0.06	0.89	3.45	7.34	11.9	16.2	19.0	19.9	19.9	19.4	16.8	12.7	8.00	3.91	1.16	0.11	0.00	161	156
-50	0.00	0.02	0.24	1.31	3.25	5.43	7.53	9.06	9.58	9.64	9.27	7.87	5.79	3.55	1.61	0.37	0.03	0.00	74.5	61.9
-60	0.00	0.01	0.03	0.18	0.65	1.29	1.88	2.29	2.54	2.58	2.38	2.01	1.43	0.82	0.28	0.05	0.01	0.00	18.4	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.15	0.00
-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	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
F t	0.08	5.14	38.7	112	219	338	434	493	512	512	494	439	341	224	117	40.7	5.56	0.10	4325	---
F a	0.00	0.00	31.3	106	214	332	429	487	507	507	489	433	335	218	111	33.3	0.02	0.00	---	4233

one-half-peak spread: U:46.5,D:47.6 , L:42.2,R:40.9

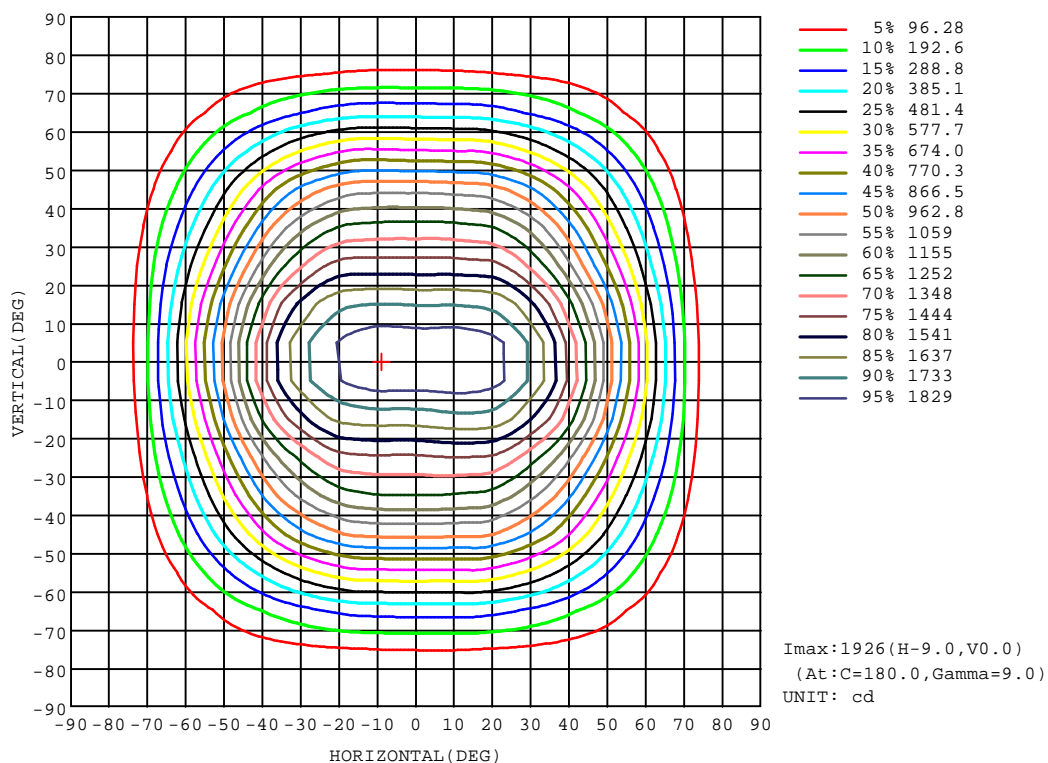
NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.9V I:0.4199A P:92.03W PF:0.9924 Lamp Flux:6440x1 lm		
NAME: STN-SR01 100W	TYPE:	WEIGHT:
SPEC.:STN-SR01 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

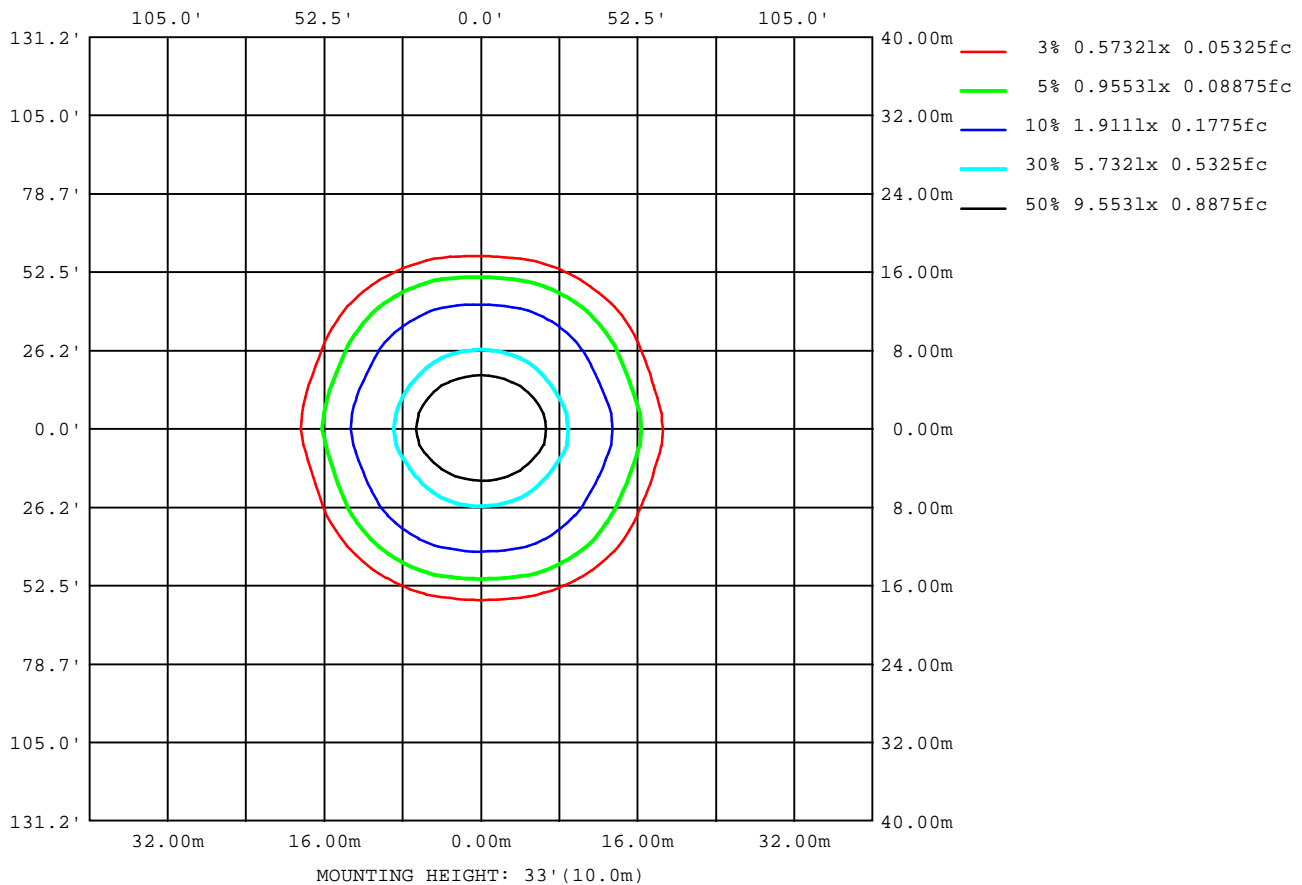


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.9V I:0.4199A P:92.03W PF:0.9924 Lamp Flux:6440x1 lm		
NAME: STN-SR01 100W	TYPE:	WEIGHT:
SPEC.:STN-SR01 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

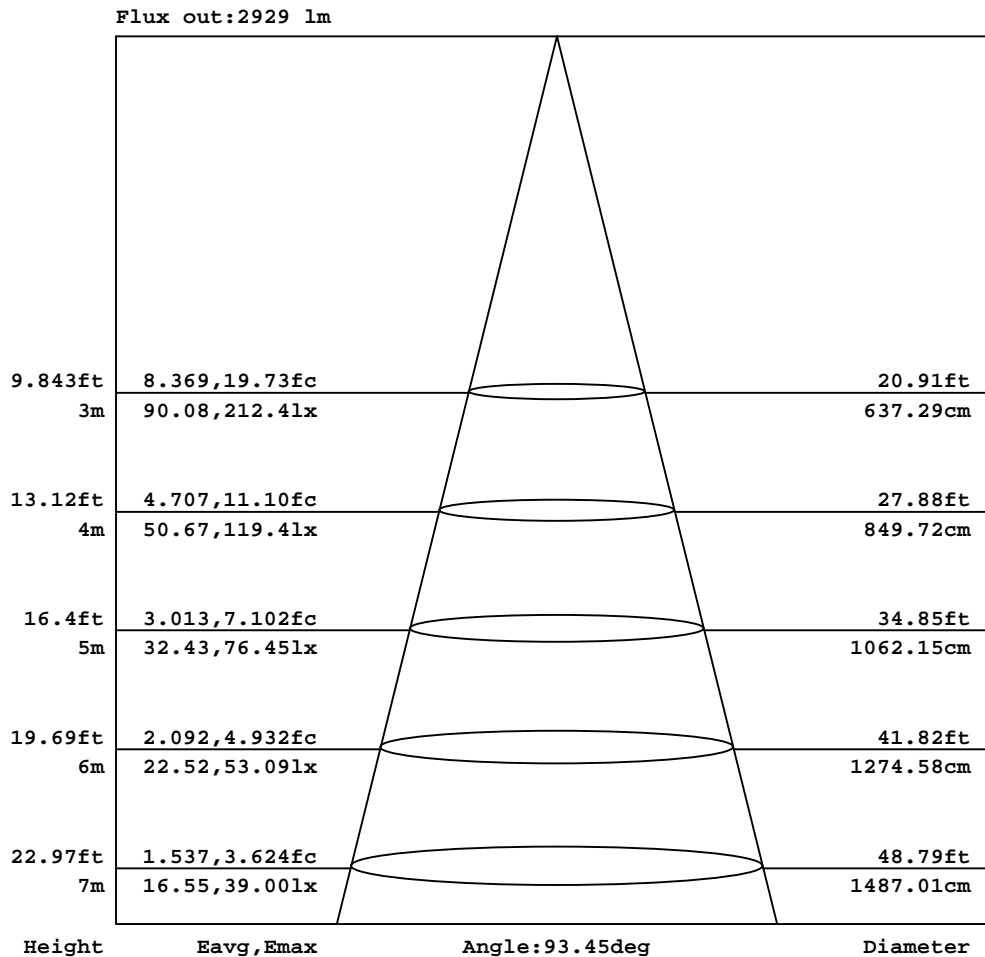


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.9V I:0.4199A P:92.03W PF:0.9924 Lamp Flux:6440x1 lm		
NAME: STN-SR01 100W	TYPE:	WEIGHT:
SPEC.:STN-SR01 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

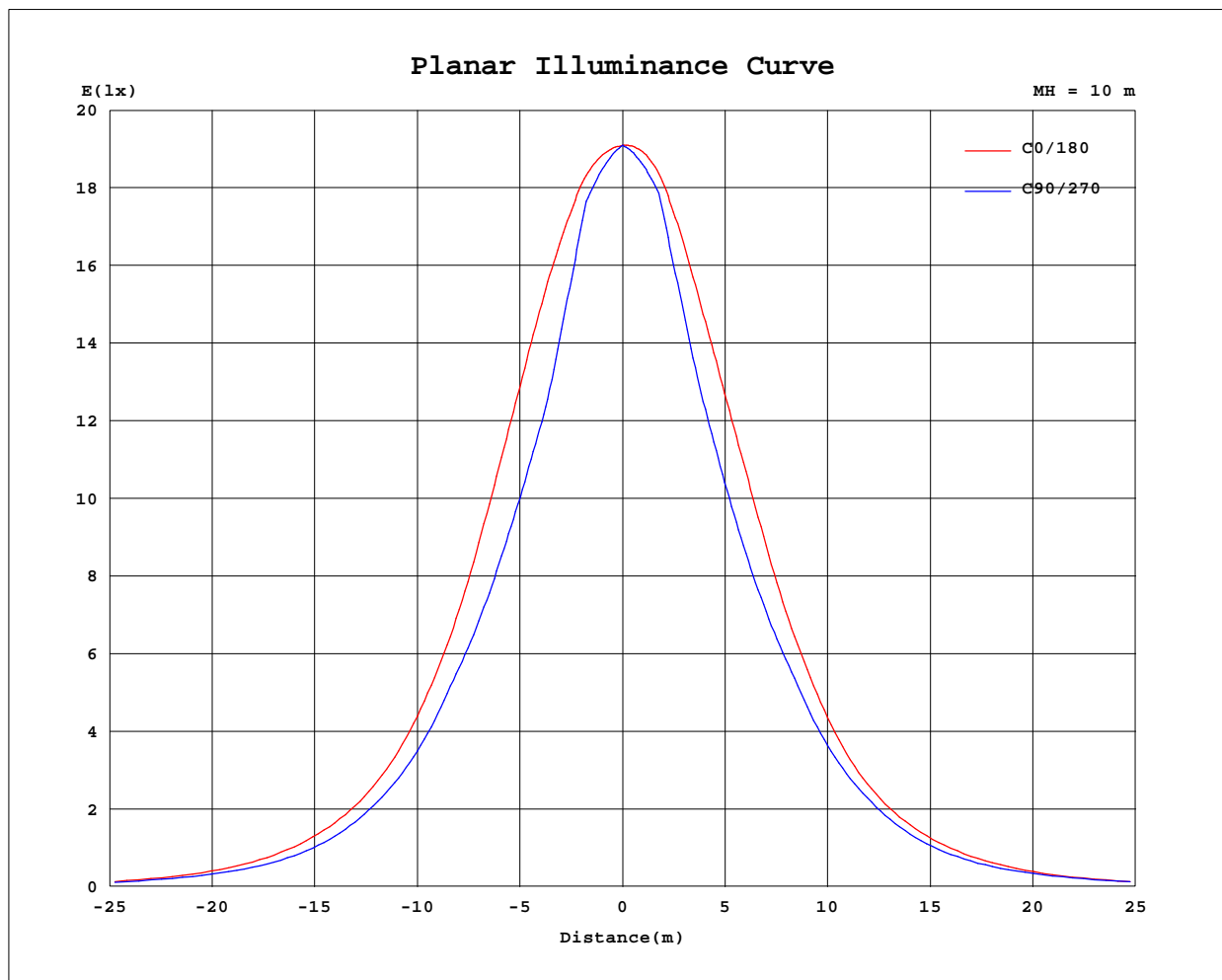


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(b) Range:-90 - 90DEG
 H(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2013-08-05

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.4199A P:92.03W PF:0.9924 Lamp Flux:6440x1 lm		
NAME: STN-SR01 100W	TYPE:	WEIGHT:
SPEC.:STN-SR01 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.24	0.49	0.50	0.66	0.77	1.10	1.75	2.26	3.10	5.13	6.83	8.56	10.4	11.7	12.8	13.9	14.5	14.9	15.1
-75	0.24	0.48	0.57	0.96	1.91	3.32	7.91	16.1	27.5	40.6	53.9	64.3	73.9	83.1	89.2	93.9	97.3	98.9	99.3
-70	0.24	0.48	0.65	1.25	3.05	5.54	14.1	29.9	52.0	76.0	101	120	137	155	166	174	180	183	184
-65	0.24	0.46	0.79	2.45	6.44	20.2	44.5	77.8	117	156	193	227	257	284	305	320	322	326	328
-60	0.25	0.43	0.93	3.66	9.83	34.9	75.0	126	183	236	285	334	376	414	444	465	465	470	472
-55	0.24	0.44	1.36	5.58	23.4	65.4	125	194	268	339	408	476	536	584	622	645	646	651	652
-50	0.24	0.44	1.78	7.49	37.0	95.9	174	263	353	442	532	619	695	755	800	824	827	832	833
-45	0.25	0.41	2.69	13.8	58.8	134	227	329	436	543	653	755	838	903	952	979	988	993	992
-40	0.27	0.37	3.61	20.0	80.5	173	280	395	519	644	775	891	981	1051	1104	1135	1149	1153	1152
-35	0.26	0.37	4.71	29.1	98.1	204	321	449	587	725	868	989	1081	1152	1207	1233	1246	1249	1247
-30	0.25	0.37	5.81	38.2	116	236	363	503	655	806	960	1087	1181	1254	1310	1332	1343	1345	1343
-25	0.26	0.37	7.40	47.5	136	271	408	560	725	891	1052	1179	1272	1353	1411	1426	1430	1428	1429
-20	0.27	0.37	9.00	56.7	157	306	453	617	795	975	1144	1270	1363	1453	1512	1520	1518	1511	1514
-15	0.26	0.38	10.1	61.3	167	331	494	673	871	1075	1259	1404	1509	1599	1657	1673	1680	1678	1682
-10	0.25	0.39	11.3	65.8	178	355	535	728	947	1174	1375	1538	1656	1746	1801	1826	1842	1846	1849
-5	0.25	0.46	12.3	70.2	186	370	561	763	974	1204	1405	1569	1688	1769	1824	1861	1883	1883	1880
0	0.25	0.53	13.3	74.6	195	385	588	797	1002	1234	1434	1600	1720	1793	1848	1897	1925	1920	1911
5	0.24	0.63	12.6	72.5	188	373	571	778	983	1208	1404	1578	1696	1777	1835	1876	1899	1898	1891
10	0.24	0.72	11.9	70.4	182	362	555	759	965	1182	1374	1556	1672	1762	1823	1856	1872	1875	1872
15	0.25	0.85	11.5	67.4	177	343	521	710	904	1104	1288	1451	1561	1653	1709	1728	1733	1732	1727
20	0.27	0.98	11.1	64.4	171	323	488	660	843	1026	1202	1346	1450	1544	1595	1601	1594	1589	1583
25	0.26	0.87	9.55	56.3	153	290	438	595	761	929	1095	1232	1337	1424	1478	1489	1488	1488	1484
30	0.25	0.76	8.05	48.2	135	258	389	530	678	832	987	1119	1223	1304	1360	1377	1382	1386	1386
35	0.27	0.69	7.02	40.4	116	224	343	472	611	754	900	1029	1128	1203	1257	1278	1285	1290	1291
40	0.29	0.62	5.98	32.6	96.6	190	296	414	544	677	813	938	1032	1103	1154	1179	1188	1195	1196
45	0.29	0.55	4.82	23.4	74.4	152	246	350	463	577	693	801	887	951	1001	1028	1033	1033	1031
50	0.29	0.49	3.66	14.1	52.1	114	196	287	381	477	572	663	742	800	847	877	878	872	866
55	0.29	0.43	2.75	9.84	35.2	81.3	145	218	293	368	443	514	576	624	662	687	688	683	679
60	0.30	0.38	1.83	5.54	18.3	48.7	94.1	149	205	260	313	364	410	447	477	496	498	495	492
65	0.30	0.35	1.24	3.82	11.3	28.7	58.1	94.8	135	176	215	251	283	310	331	345	348	348	345
70	0.30	0.32	0.64	2.09	4.34	8.76	22.2	41.2	65.4	91.7	117	138	156	173	185	193	198	200	199
75	0.29	0.30	0.51	1.29	2.52	4.97	12.0	21.9	34.7	48.6	62.4	74.3	84.9	94.3	101	105	107	108	108
80	0.29	0.27	0.37	0.49	0.70	1.18	1.81	2.66	3.91	5.52	8.23	10.9	13.8	15.5	16.9	17.0	16.6	15.7	16.0
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.4199A P:92.03W PF:0.9924 Lamp Flux:6440x1 lm		
NAME: STN-SR01 100W	TYPE:	WEIGHT:
SPEC.:STN-SR01 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	15.4	15.6	15.4	14.7	13.7	12.5	10.4	8.29	6.42	4.60	3.49	2.66	1.84	1.25	1.06	0.90	0.73	0.25	
-75	99.9	99.5	97.3	93.6	87.9	80.1	70.2	59.7	47.9	35.1	23.0	13.0	5.64	2.95	1.79	0.98	0.72	0.25	
-70	184	183	179	172	162	148	130	111	89.4	65.7	42.6	23.3	9.44	4.65	2.52	1.06	0.71	0.25	
-65	327	328	326	314	296	272	241	208	171	134	95.0	58.7	29.2	11.3	3.94	1.52	0.72	0.25	
-60	470	472	474	456	430	396	353	305	253	202	147	94.2	48.9	17.9	5.36	1.98	0.73	0.26	
-55	651	651	656	638	602	558	502	436	366	292	219	148	84.1	36.6	9.98	2.70	0.70	0.26	
-50	832	831	837	821	775	721	652	567	478	382	290	202	119	55.2	14.6	3.42	0.67	0.26	
-45	990	986	985	968	918	854	776	678	570	461	353	250	155	76.1	23.0	4.17	0.70	0.27	
-40	1149	1141	1134	1115	1060	987	900	788	663	540	416	298	191	97.0	31.4	4.92	0.72	0.28	
-35	1248	1243	1234	1217	1161	1087	997	881	746	613	478	348	227	119	41.3	6.20	0.76	0.28	
-30	1347	1344	1335	1319	1262	1188	1094	974	829	685	541	399	264	141	51.2	7.49	0.81	0.29	
-25	1438	1442	1441	1432	1377	1294	1198	1075	923	763	599	443	295	156	57.8	8.96	0.81	0.29	
-20	1529	1540	1547	1544	1492	1400	1303	1177	1016	841	658	488	326	172	64.4	10.4	0.82	0.30	
-15	1691	1702	1704	1694	1638	1545	1441	1293	1117	919	721	535	355	186	70.1	12.4	0.89	0.29	
-10	1853	1863	1861	1843	1785	1690	1578	1409	1218	997	785	582	385	201	75.8	14.3	0.97	0.29	
-5	1883	1891	1883	1861	1805	1716	1596	1422	1233	1014	806	597	392	201	76.2	14.4	0.97	0.29	
0	1912	1920	1904	1879	1825	1742	1614	1436	1247	1030	827	611	399	202	76.6	14.6	0.97	0.29	
5	1891	1895	1882	1857	1802	1715	1586	1411	1223	1014	809	596	391	200	75.5	14.5	1.06	0.29	
10	1870	1870	1859	1835	1778	1688	1559	1387	1199	998	792	580	383	199	74.5	14.4	1.16	0.30	
15	1727	1728	1722	1708	1655	1560	1438	1280	1100	919	729	531	350	180	68.5	12.6	1.09	0.29	
20	1583	1587	1585	1581	1531	1432	1318	1173	1001	839	666	482	316	161	62.5	10.9	1.03	0.29	
25	1485	1485	1478	1470	1418	1329	1219	1079	920	764	604	436	283	143	55.3	9.42	0.96	0.29	
30	1387	1383	1371	1360	1304	1225	1119	985	840	689	542	390	251	125	48.0	7.97	0.88	0.30	
35	1291	1284	1271	1256	1203	1127	1024	897	761	618	479	342	217	106	38.0	6.68	0.74	0.29	
40	1196	1186	1172	1153	1102	1029	929	809	683	548	416	294	183	88.1	27.9	5.40	0.60	0.29	
45	1029	1021	1014	994	946	879	791	689	581	465	350	245	147	68.3	19.9	4.41	0.55	0.29	
50	863	857	857	835	791	729	653	569	478	382	285	195	111	48.5	11.8	3.42	0.49	0.29	
55	676	672	672	652	614	564	504	438	366	290	213	141	77.6	31.5	8.40	2.42	0.46	0.29	
60	489	487	487	469	438	399	355	306	253	198	141	87.4	44.1	14.5	4.98	1.42	0.43	0.29	
65	343	342	339	326	304	276	245	210	171	130	89.9	53.7	25.8	9.30	3.40	0.99	0.33	0.29	
70	198	196	190	183	170	153	135	114	88.6	62.5	38.5	20.0	7.53	4.12	1.81	0.56	0.24	0.28	
75	107	106	103	99.7	92.7	83.2	73.3	61.3	47.5	33.3	20.7	11.0	4.35	2.40	1.18	0.41	0.24	0.28	
80	15.9	16.1	16.7	16.8	15.6	13.5	11.2	8.52	6.38	4.08	2.83	1.94	1.16	0.67	0.56	0.27	0.24	0.29	
85	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	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(h) Range:-90 - 90DEG
 H(h) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2013-08-05

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks: