

STN-SR01 80W



Light Output Ratio:	68.6%
Luminaire Power:	84.86 W
90% Beam Spread	32.7V x 74.3H
50% Beam Lumens	491.6 lumens per klm.

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-14

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
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	286.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	145.5V x 146.7H
	At 50% of I _{max}	91.9V x 112.9H
	At 90% of I _{max}	32.7V x 74.3H

Beam Flux	Total	686.3 lumens per klm.
	To 10% of I _{max}	667.4 lumens per klm.
	To 50% of I _{max}	491.6 lumens per klm.
	To 90% of I _{max}	137.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	68.6 %

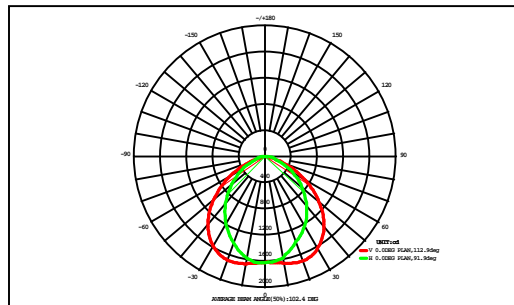
Luminaire Efficiency(Light Output Ratio)	68.6 %
--	--------

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-14

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
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:220.6V I:0.3885A P:84.86W PF:0.9903 Lamp Flux:5940x1 lm		
NAME: STN-SR01 80W	TYPE:	WEIGHT:
SPEC.:STN-SR01 80W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:48.03lm/W	
MODEL	STN-SR01 80W	Imax(cd)	1699
NOMINAL POWER(W)	80	AVAILABILITY(%)	66.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	3966
NOMINAL FLUX(lm)	5940	LOR(%)	68.6
LAMPS INSIDE	1	TOTAL FLUX(lm)	4076
TEST VOLTAGE(V)	220.4	q @50%(H,V)	113,92DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.00	0.01	0.06	0.27	0.63	1.01	1.34	1.53	1.62	1.63	1.54	1.32	0.95	0.55	0.21	0.04	0.01	0.00	12.7	0.00
90	0.00	0.01	0.06	0.27	0.63	1.01	1.34	1.53	1.62	1.63	1.54	1.32	0.95	0.55	0.21	0.04	0.01	0.00	12.7	0.00
80	0.00	0.02	0.15	0.76	1.86	3.06	4.11	4.74	5.04	5.07	4.82	4.17	3.04	1.80	0.72	0.14	0.02	0.00	39.5	14.2
70	0.00	0.09	0.73	2.35	4.72	7.23	9.16	10.2	10.6	10.7	10.3	9.12	6.87	4.25	1.96	0.53	0.05	0.00	88.9	82.2
60	0.00	0.19	1.58	4.64	8.82	13.3	16.5	18.1	18.7	18.8	18.5	16.9	13.4	8.75	4.57	1.52	0.18	0.00	164	162
50	0.01	0.44	2.85	7.45	13.5	19.5	23.7	25.8	26.5	26.7	26.3	23.8	19.0	12.6	6.60	2.27	0.27	0.00	237	235
40	0.01	0.58	3.61	9.34	17.0	24.3	29.8	32.8	33.7	33.9	33.2	30.3	24.8	17.0	9.28	3.65	0.58	0.01	304	302
30	0.02	0.99	5.00	12.0	20.8	29.1	35.4	38.7	39.7	39.9	39.2	35.6	28.6	19.5	10.7	4.24	0.66	0.01	360	359
20	0.02	0.99	5.45	13.2	23.0	32.6	40.0	44.0	45.0	45.2	44.8	41.3	33.6	23.5	13.4	5.59	1.03	0.02	413	412
10	0.03	1.35	6.67	15.6	26.6	37.2	45.1	48.6	49.0	49.3	49.1	45.1	36.4	25.2	14.1	5.58	0.89	0.01	456	455
0	0.02	1.07	6.22	15.2	26.3	37.2	45.3	49.0	49.5	49.4	49.1	45.4	37.0	25.9	14.8	6.08	1.12	0.02	459	458
-10	0.02	1.19	6.21	14.4	24.6	34.3	41.5	45.0	45.8	45.8	44.9	41.0	33.1	22.7	12.5	4.83	0.76	0.01	419	418
-20	0.01	0.71	4.54	11.4	20.2	28.8	35.4	39.0	39.8	39.7	38.8	35.5	29.0	20.0	11.0	4.32	0.74	0.01	359	358
-30	0.01	0.61	3.74	9.50	17.0	24.2	29.5	32.2	32.7	32.6	31.9	29.0	23.3	15.6	8.23	2.87	0.38	0.01	293	292
-40	0.00	0.25	2.16	6.37	12.0	17.9	22.3	24.4	24.6	24.4	24.0	22.0	17.6	11.8	6.26	2.15	0.27	0.01	218	216
-50	0.00	0.17	1.40	4.19	7.93	11.9	15.0	16.3	16.4	16.4	16.0	14.4	11.1	7.09	3.48	0.99	0.09	0.00	143	139
-60	0.00	0.05	0.46	1.66	3.57	5.77	7.58	8.58	8.83	8.77	8.45	7.50	5.74	3.62	1.69	0.47	0.06	0.00	72.8	63.4
-70	0.00	0.01	0.08	0.44	1.21	2.12	2.92	3.43	3.64	3.62	3.37	2.82	2.01	1.13	0.38	0.06	0.01	0.00	27.3	0.00
-80	0.00	0.01	0.03	0.14	0.40	0.72	1.00	1.18	1.26	1.25	1.18	1.00	0.74	0.44	0.17	0.04	0.01	0.00	9.56	0.00
-90	0.00	0.01	0.03	0.14	0.40	0.72	1.00	1.18	1.26	1.25	1.18	1.00	0.74	0.44	0.17	0.04	0.01	0.00	9.56	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
F t	0.17	8.71	50.9	129	230	330	406	443	452	453	446	406	326	221	120	45.4	7.12	0.13	4076	---
F a	0.00	4.56	45.5	124	224	323	397	435	444	445	437	398	318	215	115	39.4	3.25	0.00	---	3966

one-half-peak spread: U:40.9,D:51.6 , L:37.9,R:37.5

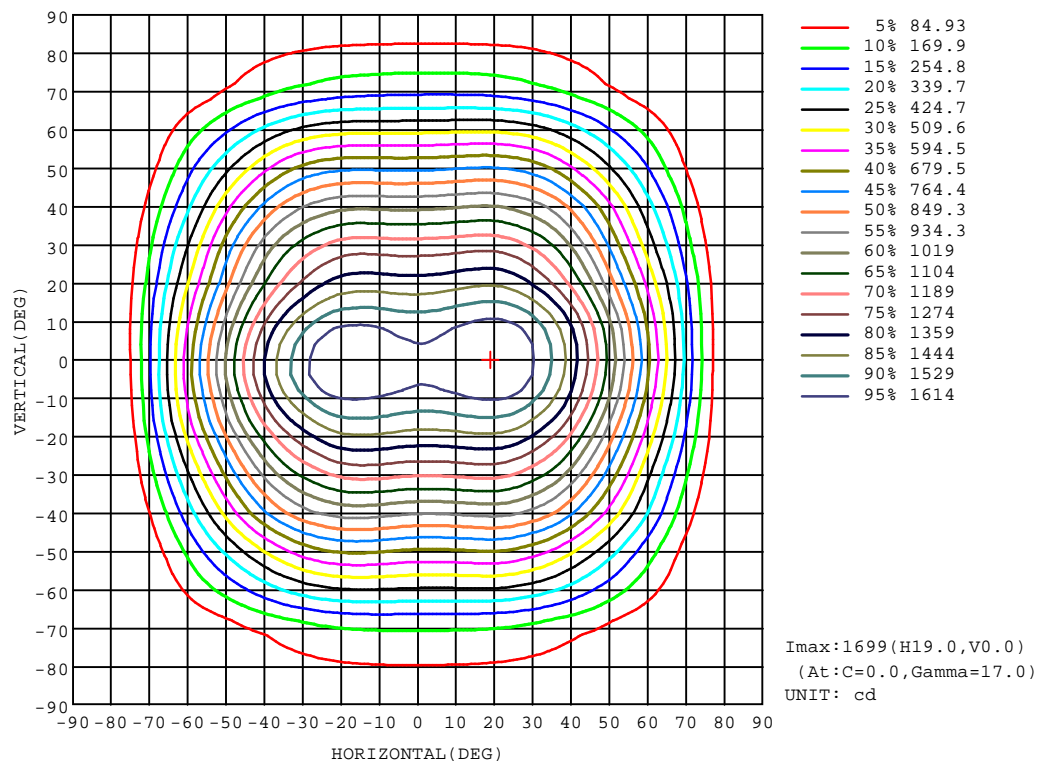
NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-14

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
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:220.6V I:0.3885A P:84.86W PF:0.9903 Lamp Flux:5940x1 lm		
NAME: STN-SR01 80W	TYPE:	WEIGHT:
SPEC.:STN-SR01 80W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

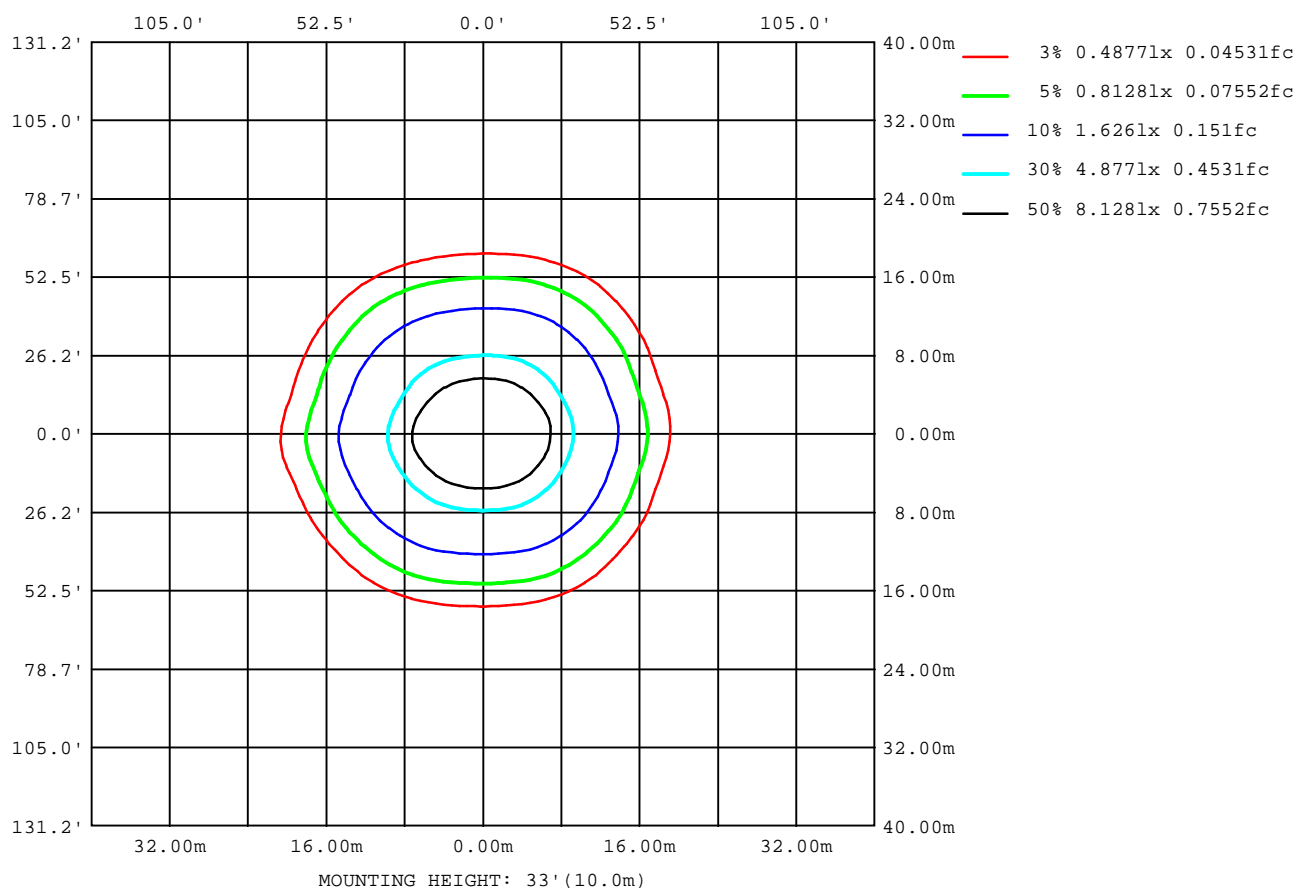


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-14

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
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:220.6V I:0.3885A P:84.86W PF:0.9903 Lamp Flux:5940x1 lm		
NAME: STN-SR01 80W	TYPE:	WEIGHT:
SPEC.:STN-SR01 80W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

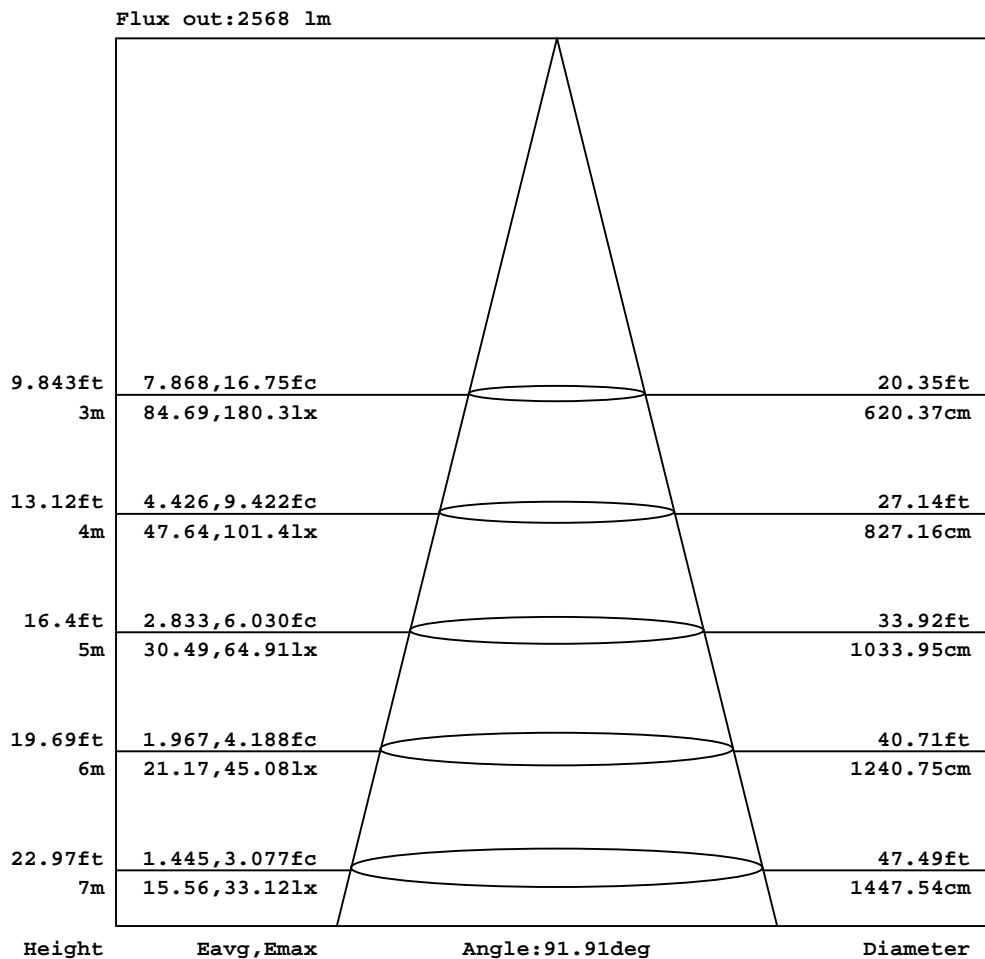


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-14

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
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:220.6V I:0.3885A P:84.86W PF:0.9903 Lamp Flux:5940x1 lm		
NAME: STN-SR01 80W	TYPE:	WEIGHT:
SPEC.:STN-SR01 80W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

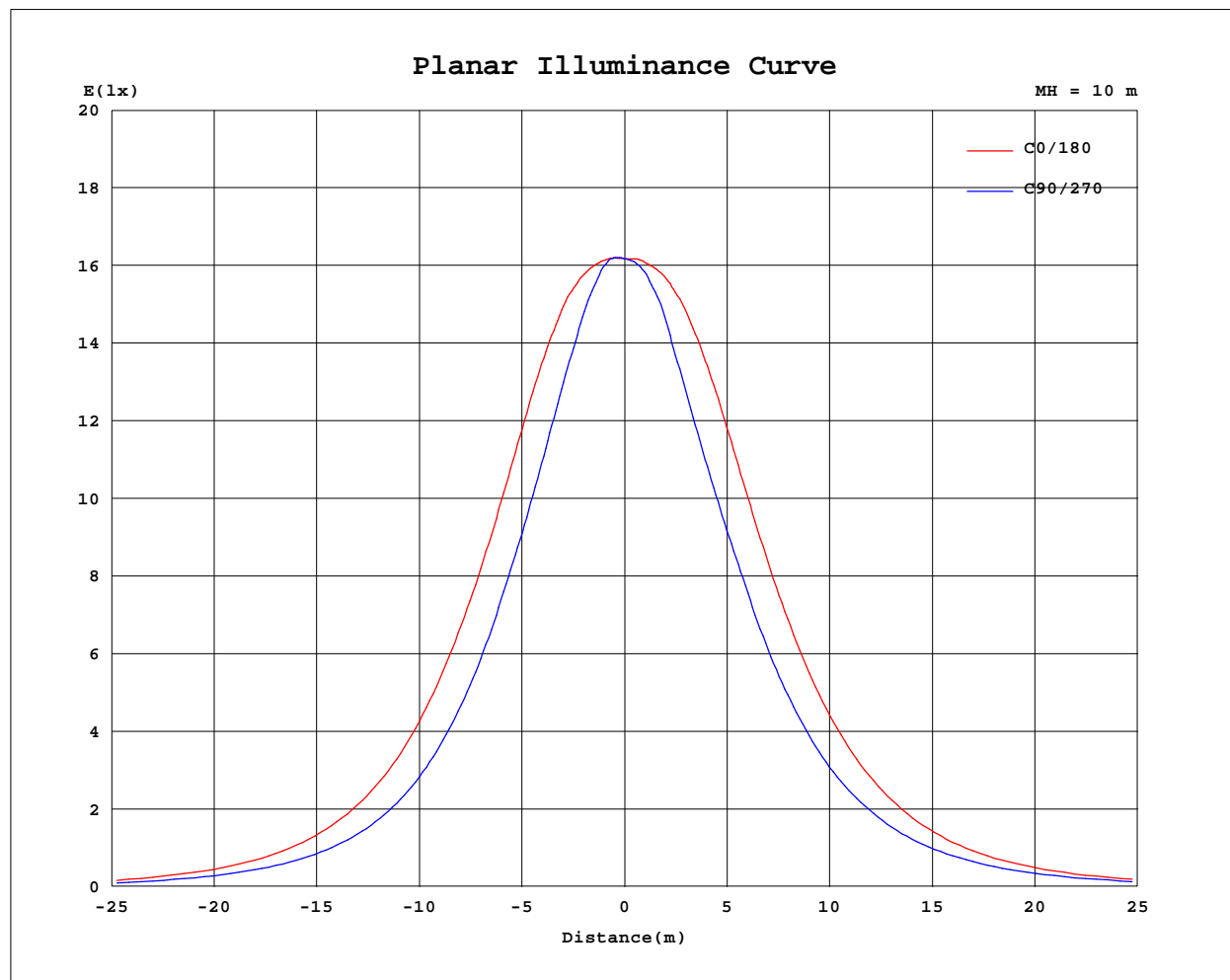


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-14

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
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(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-14

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
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:220.6V I:0.3885A P:84.86W PF:0.9903 Lamp Flux:5940x1 lm		
NAME: STN-SR01 80W	TYPE:	WEIGHT:
SPEC.:STN-SR01 80W	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	0.26	0.50	0.53	0.53	0.55	0.57	0.63	0.63	0.63	0.63	0.59	0.55	0.51	0.48	0.45	0.42	0.40	0.39	0.38
-85	0.26	0.51	0.56	0.80	1.28	2.06	4.54	8.09	12.3	16.9	21.1	24.7	27.7	30.2	31.7	32.7	33.1	33.3	33.2
-80	0.26	0.38	0.55	0.70	1.77	2.86	6.39	13.5	23.5	34.3	45.7	55.7	64.0	71.1	76.5	79.7	81.7	82.5	82.6
-75	0.26	0.38	0.56	0.76	2.27	3.78	8.72	18.6	32.7	47.8	63.8	77.8	89.3	99.4	107	111	114	115	116
-70	0.26	0.53	0.67	1.87	4.18	8.01	20.2	37.9	59.1	82.0	103	121	136	149	157	162	164	165	165
-65	0.26	0.54	1.50	6.29	18.5	36.2	63.5	94.5	127	161	193	219	240	255	264	267	267	265	265
-60	0.26	0.35	1.13	4.53	22.1	53.8	97.8	149	199	250	300	343	379	405	420	425	423	418	415
-55	0.26	0.35	1.35	5.99	29.7	73.2	132	198	260	323	383	436	480	510	527	532	527	520	515
-50	0.25	0.59	4.82	24.0	75.7	149	236	321	400	479	550	611	655	681	692	687	676	667	665
-45	0.25	0.72	6.20	35.7	101	190	290	387	481	573	653	719	765	792	804	800	789	778	775
-40	0.26	0.34	2.87	19.9	83.4	183	300	416	533	650	754	840	903	943	967	973	964	952	942
-35	0.26	0.32	3.31	27.6	106	219	345	471	597	722	833	923	990	1034	1063	1072	1066	1054	1046
-30	0.24	1.50	17.3	93.6	216	358	495	638	777	905	1013	1095	1151	1196	1218	1220	1212	1203	1202
-25	0.23	1.62	21.9	109	246	399	546	696	843	976	1087	1174	1236	1284	1306	1306	1298	1287	1286
-20	0.32	0.28	5.77	57.8	192	360	526	687	847	1001	1131	1239	1322	1387	1428	1438	1433	1420	1411
-15	0.27	0.26	7.22	66.7	215	395	569	740	910	1069	1206	1320	1405	1472	1510	1516	1511	1498	1488
-10	0.22	2.14	39.0	159	346	537	722	905	1080	1241	1380	1487	1565	1614	1625	1619	1605	1589	1585
-5	0.20	2.46	42.5	170	359	555	751	943	1123	1286	1429	1538	1618	1665	1675	1666	1646	1628	1625
0	0.20	0.25	9.52	82.5	241	437	635	836	1026	1204	1358	1487	1585	1653	1684	1686	1665	1637	1621
5	0.20	0.25	10.1	86.1	245	433	624	821	1009	1184	1337	1465	1566	1636	1670	1673	1654	1629	1615
10	0.20	3.18	41.4	167	337	515	696	881	1052	1210	1343	1448	1530	1586	1604	1603	1587	1574	1576
15	0.20	3.44	41.4	162	324	492	661	835	999	1145	1269	1366	1442	1495	1515	1517	1507	1499	1502
20	0.25	0.33	7.93	71.7	197	353	504	661	821	971	1099	1204	1285	1350	1390	1403	1401	1392	1391
25	0.26	0.31	7.35	65.0	180	327	471	623	778	923	1047	1147	1224	1284	1323	1335	1332	1325	1324
30	0.20	2.78	27.0	111	234	370	505	657	799	925	1028	1107	1166	1209	1231	1231	1226	1224	1226
35	0.21	2.33	21.7	95.0	207	333	460	601	734	853	952	1027	1082	1120	1139	1139	1134	1133	1136
40	0.25	0.29	4.50	31.4	106	212	324	442	565	681	783	868	930	970	994	1003	1000	996	998
45	0.25	0.28	3.84	24.3	87.1	181	285	391	500	605	699	780	838	875	896	903	900	897	898
50	0.23	0.83	6.34	37.3	101	189	280	368	456	541	620	682	722	743	752	752	748	748	750
55	0.23	0.73	5.22	30.5	81.8	155	232	308	385	458	526	580	616	635	644	645	643	643	645
60	0.27	0.25	1.61	7.69	31.5	71.9	126	183	241	300	355	403	441	465	478	484	485	485	486
65	0.27	0.24	1.12	5.30	20.5	47.1	86.2	130	177	224	267	306	337	358	370	376	378	379	381
70	0.23	0.31	0.78	3.33	6.25	18.8	40.5	68.1	98.2	126	150	173	191	204	212	217	221	223	223
75	0.23	0.30	0.67	2.71	5.05	15.0	32.4	54.5	78.6	101	120	138	153	164	170	174	177	178	179
80	0.26	0.24	0.32	0.98	2.13	5.09	13.3	25.7	40.1	55.0	67.9	79.9	90.3	98.6	104	107	109	111	112
85	0.25	0.24	0.29	0.68	1.38	3.15	8.07	15.5	24.2	33.1	40.9	48.0	54.3	59.3	62.6	64.5	65.8	66.6	67.1
90	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.24	0.22	0.22	0.22	0.21

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-14

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
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:220.6V I:0.3885A P:84.86W PF:0.9903 Lamp Flux:5940x1 lm		
NAME: STN-SR01 80W	TYPE:	WEIGHT:
SPEC.:STN-SR01 80W	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	0.39	0.41	0.44	0.48	0.53	0.60	0.64	0.72	0.80	0.84	0.87	0.90	0.91	0.95	0.97	1.00	0.84	0.08	
-85	33.0	32.6	31.8	30.4	28.3	25.5	22.3	18.8	14.4	10.1	6.05	3.01	1.82	1.47	1.02	0.99	0.82	0.10	
-80	82.4	81.6	80.2	77.4	73.3	67.4	59.7	51.6	41.7	30.3	19.8	10.4	4.36	2.71	1.67	1.00	0.96	0.48	
-75	115	114	112	108	102	94.2	83.3	71.9	58.1	42.1	27.3	14.2	5.74	3.43	1.95	1.00	0.94	0.47	
-70	164	161	157	150	139	125	109	91.3	68.7	47.0	26.8	11.5	5.47	3.52	1.21	0.94	0.74	0.15	
-65	264	263	261	254	241	221	196	168	135	102	69.2	40.6	20.8	8.68	2.31	1.07	0.72	0.16	
-60	415	415	417	416	405	382	351	311	265	215	163	113	66.6	31.0	9.65	2.61	0.87	0.45	
-55	515	516	520	521	508	481	444	394	337	278	213	150	90.1	41.6	12.6	3.25	0.85	0.45	
-50	665	672	678	672	645	604	546	477	402	322	239	157	82.0	29.3	6.73	1.59	0.64	0.19	
-45	777	784	791	785	758	716	653	573	486	393	297	202	112	45.8	10.8	2.13	0.60	0.20	
-40	941	947	956	960	947	912	859	778	677	568	454	339	224	119	44.7	7.40	1.02	0.41	
-35	1046	1052	1059	1062	1044	1005	948	862	753	633	509	380	257	143	56.6	9.63	1.18	0.41	
-30	1205	1213	1217	1204	1165	1108	1029	918	787	647	501	359	228	112	29.9	4.20	0.49	0.28	
-25	1289	1297	1302	1291	1251	1190	1107	989	852	702	549	399	258	131	37.0	4.83	0.45	0.30	
-20	1412	1418	1428	1429	1408	1357	1281	1176	1040	884	719	556	397	241	109	21.0	1.94	0.34	
-15	1488	1497	1509	1510	1491	1436	1358	1247	1103	941	767	596	426	262	118	22.9	2.03	0.34	
-10	1596	1615	1627	1620	1578	1503	1399	1257	1094	915	729	544	368	196	60.2	6.88	0.32	0.35	
-5	1640	1665	1683	1674	1628	1546	1435	1292	1125	942	754	563	380	201	60.7	7.04	0.32	0.40	
0	1630	1654	1686	1698	1680	1619	1527	1408	1258	1082	896	703	511	321	144	32.5	3.20	0.31	
5	1624	1648	1678	1686	1668	1612	1520	1399	1249	1072	885	692	503	314	140	31.7	3.08	0.29	
10	1593	1616	1632	1627	1588	1513	1406	1270	1105	926	742	558	379	202	63.4	7.72	0.34	0.38	
15	1518	1539	1551	1545	1503	1429	1329	1198	1040	870	698	529	359	191	58.8	7.07	0.35	0.42	
20	1397	1410	1425	1429	1405	1349	1272	1169	1039	888	730	574	424	266	122	24.4	2.58	0.30	
25	1329	1340	1352	1354	1330	1278	1206	1106	980	834	681	532	391	242	109	20.7	2.19	0.30	
30	1232	1240	1244	1229	1192	1137	1054	943	810	666	524	391	259	131	36.0	5.15	0.32	0.33	
35	1142	1150	1155	1142	1108	1057	979	874	750	615	481	357	231	114	30.1	4.54	0.31	0.32	
40	1003	1011	1019	1019	1001	966	913	830	728	613	490	370	260	145	57.2	9.42	0.87	0.29	
45	902	911	919	919	902	870	818	739	645	540	431	325	221	120	44.5	8.01	0.69	0.29	
50	756	765	770	762	740	699	633	553	467	379	292	199	111	44.7	9.20	1.50	0.29	0.30	
55	650	656	659	651	631	595	537	468	394	317	242	163	89.8	36.5	7.52	1.26	0.29	0.30	
60	488	491	494	491	480	458	421	372	318	260	201	144	87.7	43.2	14.0	3.16	0.35	0.28	
65	382	384	384	381	370	350	319	280	237	191	144	99.7	58.1	28.0	9.49	2.06	0.32	0.29	
70	223	221	217	209	196	176	152	127	99.4	69.6	42.4	20.4	7.15	3.99	0.81	0.30	0.27	0.29	
75	178	177	174	168	157	141	122	102	79.6	55.7	34.0	16.4	5.78	3.25	0.71	0.30	0.28	0.30	
80	112	111	110	107	103	94.7	83.6	71.3	58.3	43.8	29.3	16.5	7.05	2.78	1.48	0.35	0.28	0.29	
85	67.2	66.9	66.2	64.5	61.7	56.9	50.2	42.9	35.1	26.4	17.7	10.0	4.35	1.78	1.00	0.32	0.29	0.29	
90	0.21	0.21	0.22	0.22	0.24	0.24	0.24	0.24	0.25	0.27	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.33	

H(h) Range:-90 - 90DEG
 H(h) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2013-10-14

V(B) Range:-90 - 90DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks: