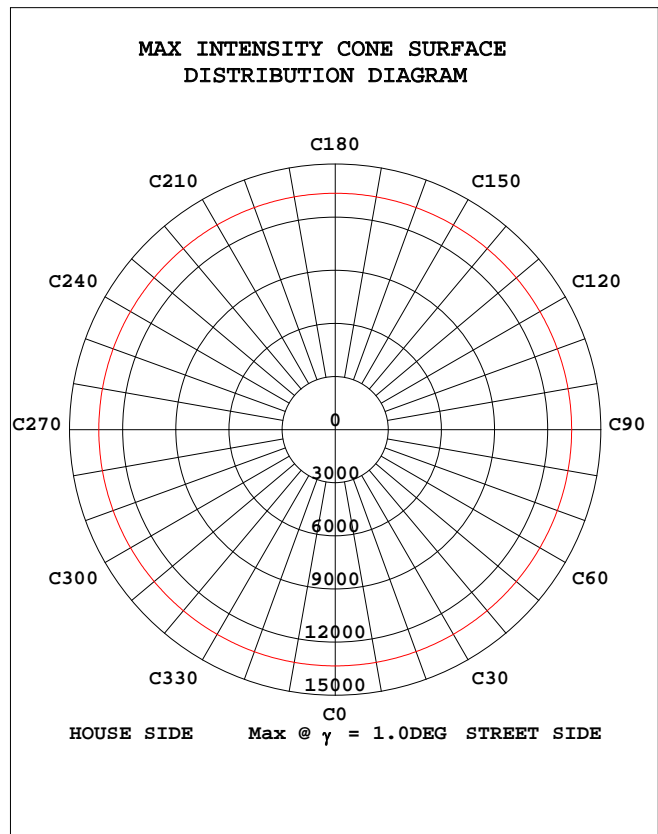
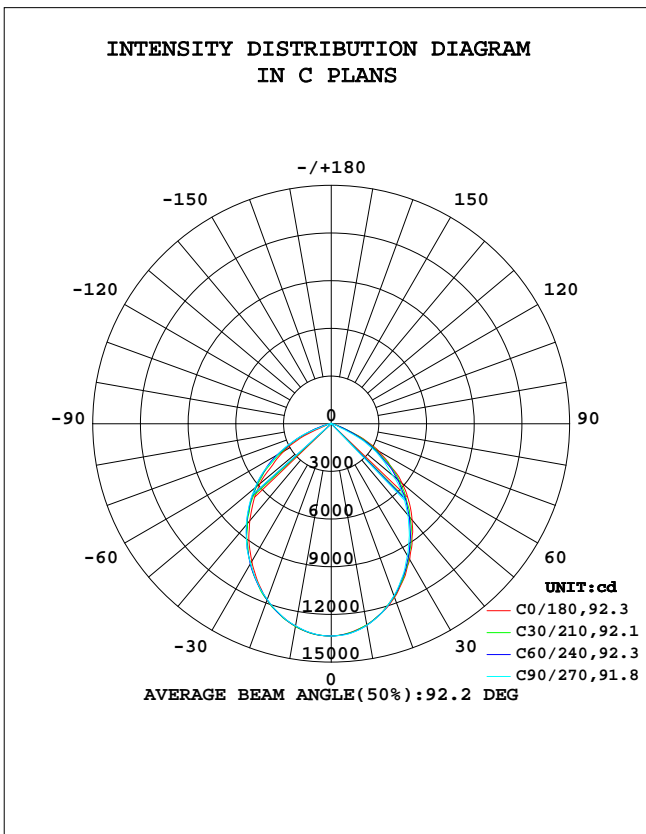


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK1572E90DU	WEIGHT:
SPEC.:	SERIAL No.:
MFR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.27 lm/W			
MODEL		I _{max} (cd)	13353	η street_up(%)	0.2
NOMINAL POWER(W)	200	LOR(%)	100.0	η street_down(%)	47.5
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	27553	η house_up(%)	0.2
NOMINAL FLUX(lm)	27552.8	MAXIMUM @(C,γ)	210,1.0	η house_down(%)	52.2
LAMPS INSIDE	1	η up(%)	0.3	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	99.7	SLI	18.478

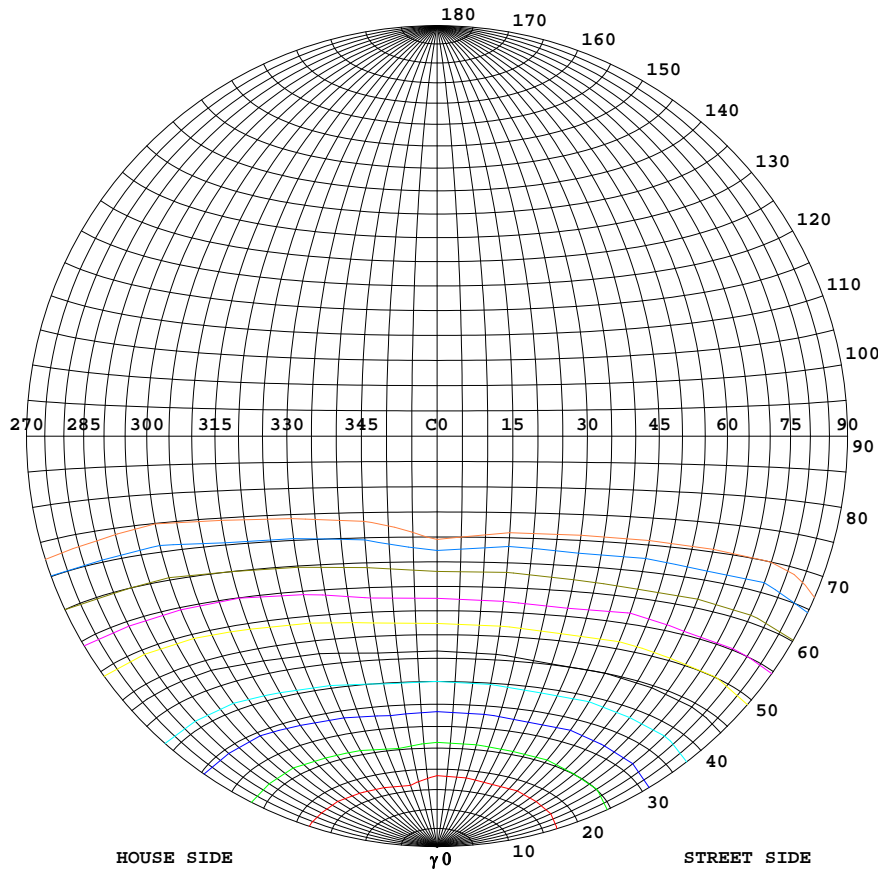


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0DEG
 Operators:
 Test Date: 14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 7.700m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK15HDE90DU	WEIGHT:
SPEC.:	SERIAL No.:
MFR.:	Shielding Angle:



Classification:

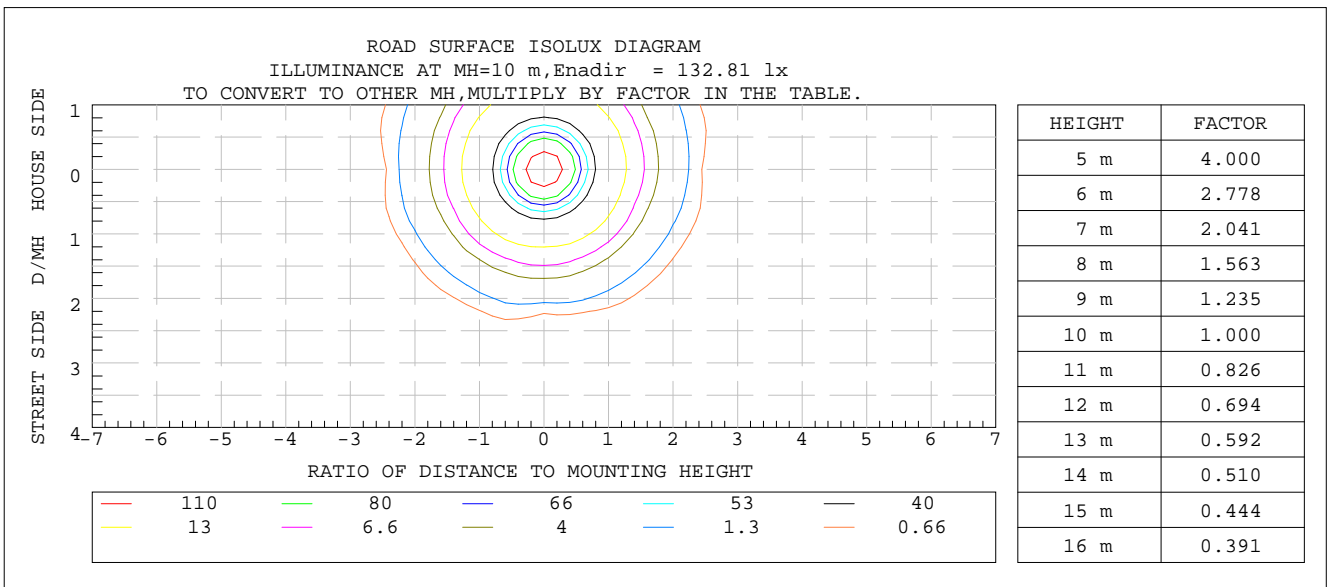
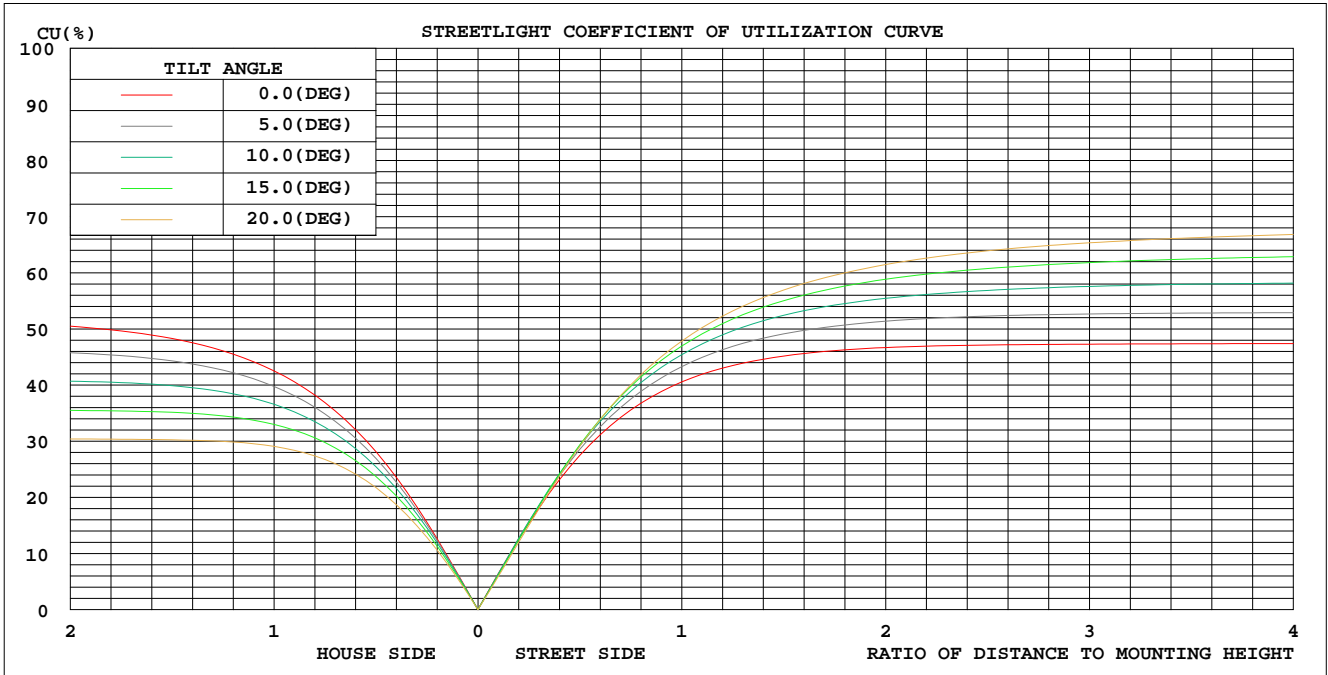
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:9.961cd/klm
 Max.At90:0.3574cd/klm
 Max.80-90:9.961cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	13353
90%	12018
80%	10683
70%	9347
60%	8012
50%	6677
40%	5341
30%	4006
20%	2671
10%	1335
5%	668

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:0DEG
 Operators:
 Test Date:14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:7.700m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 0DEG
Operators:
Test Date: 14 June 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity: 65.0%
Test Distance: 7.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK15HDE90DU		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

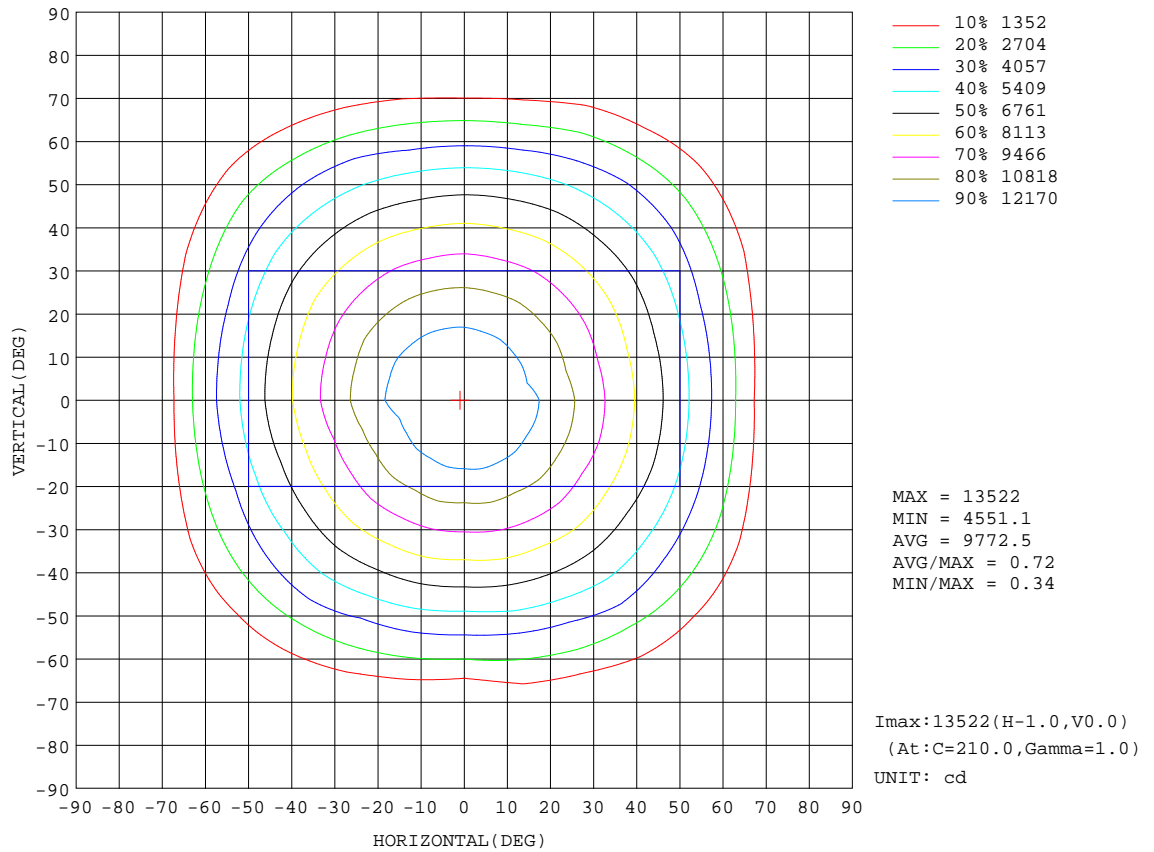
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum,lamp
10	1285	1288	1288	1292	1295	1292	1291	1286	0- 10	1253	1253	4.55,4.55
20	1163	1162	1152	1163	1180	1178	1177	1171	10- 20	3479	4732	17.2,17.2
30	987.2	979.1	958.4	973.9	1001	1015	1016	1010	20- 30	4989	9722	35.3,35.3
40	791.3	772.8	751.8	768.2	797.3	825.4	832.9	826.0	30- 40	5597	15318	55.6,55.6
50	581.7	558.1	504.5	548.9	583.8	613.7	624.3	621.7	40- 50	5317	20636	74.9,74.9
60	347.3	319.6	271.3	295.6	341.1	386.1	387.1	402.0	50- 60	4124	24760	89.9,89.9
70	56.50	79.11	43.45	74.74	57.63	137.0	136.7	141.8	60- 70	2154	26913	97.7,97.7
80	14.23	11.22	8.763	10.38	13.45	20.43	23.47	23.39	70- 80	484.2	27398	99.4,99.4
90	0.0667	0.0707	0.0752	0.0746	0.2391	0.3876	0.6191	0.6866	80- 90	67.24	27465	99.7,99.7
100	0.1531	0.1978	0.2175	0.2266	0.2875	0.2846	0.2541	0.2679	90-100	2.083	27467	99.7,99.7
110	0.5118	0.5503	0.6625	0.6729	0.6127	0.5640	0.4918	0.4755	100-110	4.040	27471	99.7,99.7
120	1.166	1.041	1.364	1.306	1.232	1.121	1.051	0.8701	110-120	8.417	27479	99.7,99.7
130	1.814	1.614	2.061	1.944	1.852	1.715	1.720	1.540	120-130	13.15	27493	99.8,99.8
140	2.330	2.311	2.646	2.489	2.353	2.266	2.315	2.251	130-140	15.90	27508	99.8,99.8
150	2.789	3.040	3.135	2.934	2.764	2.773	2.815	2.798	140-150	16.10	27525	99.9,99.9
160	3.208	3.600	3.624	3.405	3.133	3.299	3.353	3.311	150-160	14.22	27539	99.9,99.9
170	3.609	4.065	4.034	3.907	3.683	3.893	3.913	3.839	160-170	10.23	27549	100,100
180	4.099	4.259	4.200	4.176	4.114	4.251	4.209	4.171	170-180	3.858	27553	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:0DEG
 Operators:
 Test Date:14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity:65.0%
 Test Distance:7.700m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

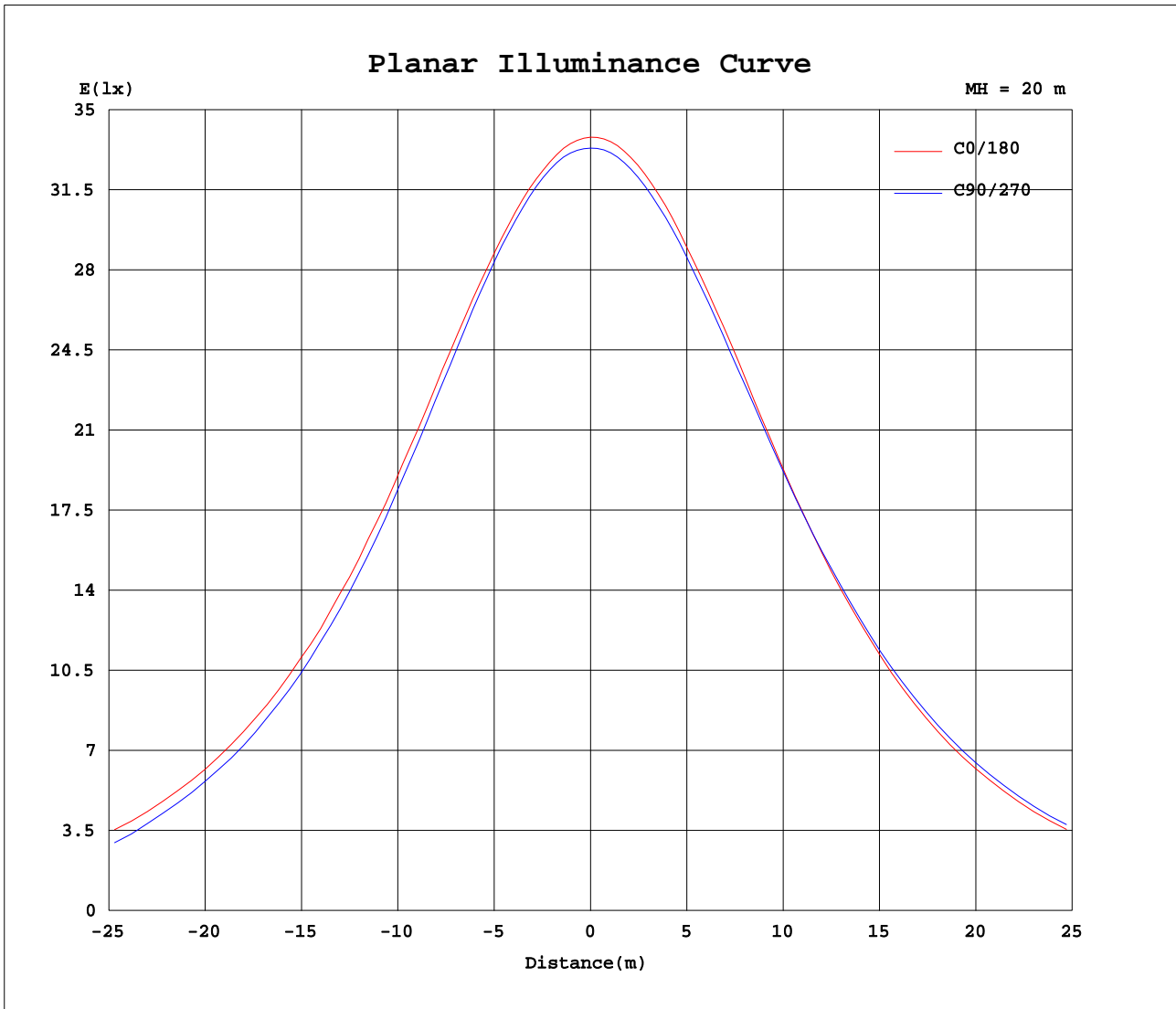
NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK15HDE90DU	WEIGHT:
SPEC.:	SERIAL No.:
MFR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0DEG
 Operators:
 Test Date: 14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 7.700m [K=1.0000]
 Remarks:

Planar Illuminance Curve



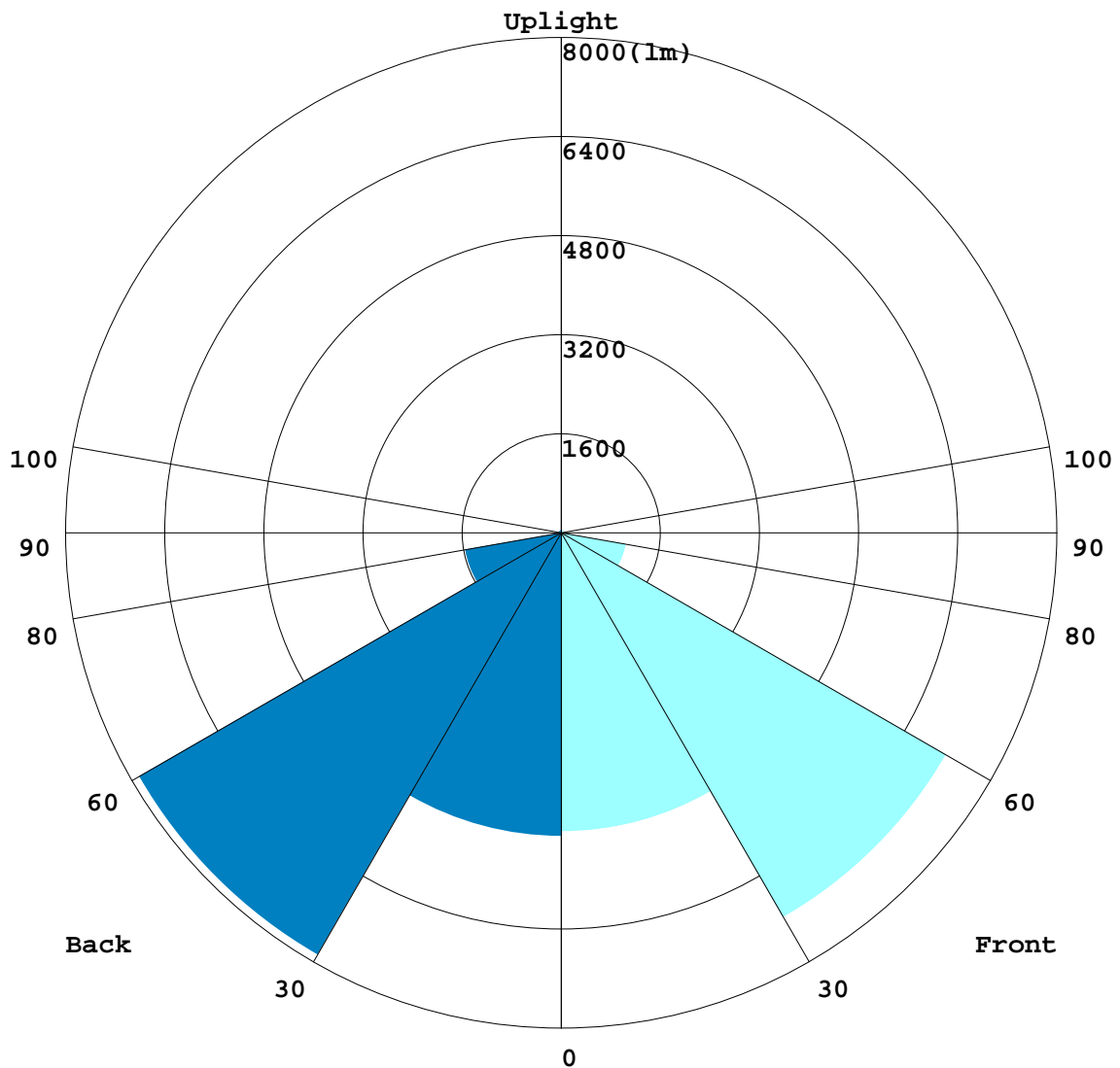
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0DEG
 Operators:
 Test Date: 14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 7.700m [K=1.0000]
 Remarks:

LCS REPORT

NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK1572E90DU	WEIGHT:
SPEC.:	SERIAL No.:
MFR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0DEG
 Operators:
 Test Date: 14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 7.700m [K=1.0000]
 Remarks:

BUG REPORT

NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK15HDE90DU	WEIGHT:
SPEC.:	SERIAL No.:
MFR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	4823.4	17.5
FM - Front-Medium(30-60)	7172.3	26.0
FH - Front-High(60-80)	1062.5	3.9
FVH - Front-Very High(80-90)	18.885	0.1
Total Forward Light	13123	47.6

BL - Back-Low(0-30)	4898.2	17.8
BM - Back-Medium(30-60)	7865.9	28.5
BH - Back-High(60-80)	1575.2	5.7
BVH - Back-Very High(80-90)	48.352	0.2
Total Back Light	14430	52.4

UL - Uplight-Low(90-100)	2.0832	0.0
UH - Uplight-High(100-180)	85.9	0.3
Total Up Light	87.983	0.3

BUG(Back,Up,Glare) Rating	B4-U3-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	14388	42.6	14430
Street Side	13077	45.383	13123

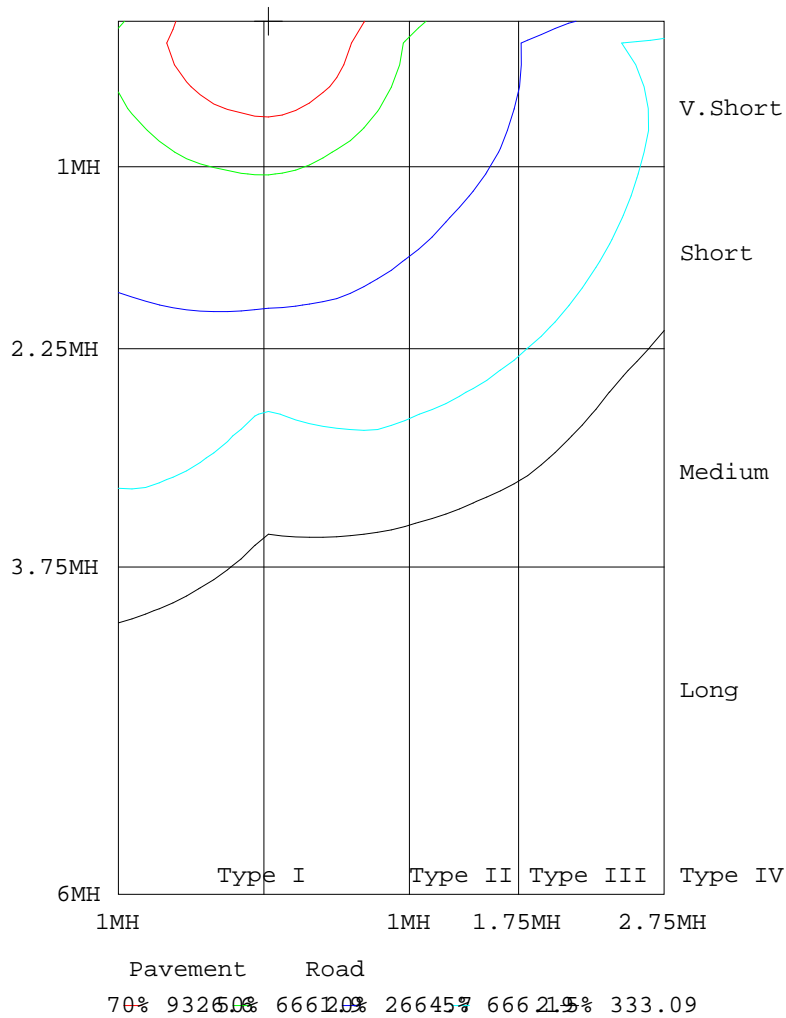
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0DEG
 Operators:
 Test Date: 14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 7.700m [K=1.0000]
 Remarks:

ROAD ISOCANDELA REPORT

NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK157DE90DU	WEIGHT:
SPEC.:	SERIAL No.:
MFR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0DEG
 Operators:
 Test Date: 14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 7.700m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK1572E90DU		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335	1335
5	1320	1321	1321	1323	1324	1325	1325	1326	1325	1326	1324	1325	1326	1325	1327	1326	1326	1324	1325
10	1285	1287	1286	1288	1287	1289	1288	1290	1289	1292	1291	1292	1295	1294	1296	1292	1292	1291	1291
15	1231	1234	1231	1232	1230	1235	1231	1234	1231	1237	1234	1239	1244	1242	1244	1244	1244	1241	1241
20	1163	1167	1159	1162	1154	1161	1152	1159	1156	1163	1161	1171	1180	1179	1180	1178	1180	1176	1177
25	1079	1080	1074	1076	1065	1068	1061	1069	1065	1073	1074	1086	1096	1095	1102	1101	1105	1100	1101
30	987	984	975	979	970	966	958	963	966	974	978	989	1001	1003	1013	1015	1020	1014	1016
35	886	886	875	879	870	865	858	860	860	873	871	886	903	908	920	922	927	924	928
40	791	789	771	773	764	760	752	755	752	768	765	778	797	807	822	825	829	828	833
45	691	686	665	663	655	652	641	647	643	660	654	674	693	701	721	722	727	725	732
50	582	578	558	558	543	536	505	519	530	549	545	563	584	594	614	614	621	621	624
55	448	448	444	451	414	405	393	400	400	432	432	428	450	465	501	504	511	514	517
60	347	338	321	320	300	298	271	285	291	296	307	319	341	352	366	386	396	381	387
65	222	213	199	185	173	172	117	153	164	172	181	198	216	229	253	254	263	265	267
70	56.5	84.9	83.6	79.1	73.4	66.0	43.4	50.3	67.3	74.7	82.0	87.7	57.6	114	133	137	145	146	137
75	29.5	30.1	29.7	26.9	27.4	26.5	22.7	24.2	26.1	26.7	29.4	31.7	28.4	37.9	53.1	55.6	61.5	58.0	44.3
80	14.2	13.2	12.1	11.2	10.8	10.3	8.76	9.21	9.55	10.4	11.6	12.8	13.4	16.4	20.1	20.4	23.9	24.3	23.5
85	4.35	3.79	2.91	2.66	1.70	1.56	0.73	1.03	1.09	1.94	2.41	3.38	4.35	5.39	6.64	7.35	8.36	9.17	9.40
90	0.07	0.07	0.07	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.07	0.07	0.24	0.24	0.29	0.39	0.63	0.52	0.62
95	0.09	0.10	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.12	0.12	0.11	0.24	0.24	0.24	0.24	0.24	0.24	0.24
100	0.15	0.18	0.19	0.20	0.22	0.22	0.22	0.22	0.24	0.23	0.22	0.19	0.29	0.29	0.28	0.28	0.28	0.27	0.25
105	0.29	0.32	0.34	0.35	0.39	0.39	0.40	0.38	0.40	0.41	0.40	0.36	0.41	0.40	0.39	0.39	0.38	0.36	0.34
110	0.51	0.52	0.54	0.55	0.65	0.65	0.66	0.64	0.67	0.67	0.65	0.60	0.61	0.60	0.57	0.56	0.54	0.51	0.49
115	0.82	0.84	0.79	0.79	0.96	0.97	1.00	1.00	0.99	0.99	0.98	0.91	0.91	0.87	0.82	0.82	0.79	0.73	0.72
120	1.17	1.18	1.05	1.04	1.31	1.33	1.36	1.35	1.34	1.31	1.31	1.25	1.23	1.19	1.13	1.12	1.09	1.07	1.05
125	1.50	1.51	1.28	1.30	1.64	1.68	1.74	1.70	1.69	1.65	1.63	1.58	1.55	1.51	1.46	1.41	1.40	1.41	1.39
130	1.81	1.83	1.54	1.61	1.96	2.03	2.06	2.02	2.00	1.94	1.91	1.89	1.85	1.80	1.76	1.71	1.70	1.72	1.72
135	2.09	2.04	1.71	1.94	2.27	2.35	2.37	2.32	2.28	2.22	2.19	2.16	2.11	2.06	2.02	1.99	2.01	2.03	2.04
140	2.33	2.20	1.94	2.31	2.56	2.63	2.65	2.58	2.53	2.49	2.45	2.41	2.35	2.31	2.28	2.27	2.29	2.30	2.31
145	2.56	2.34	2.18	2.67	2.84	2.90	2.90	2.83	2.75	2.72	2.68	2.64	2.58	2.56	2.53	2.52	2.53	2.55	2.57
150	2.79	2.41	2.52	3.04	3.11	3.14	3.14	3.06	2.99	2.93	2.91	2.87	2.76	2.81	2.78	2.77	2.77	2.80	2.82
155	3.01	2.65	2.96	3.33	3.36	3.38	3.38	3.31	3.24	3.17	3.14	3.12	2.96	3.08	3.05	3.04	3.04	3.07	3.09
160	3.21	3.00	3.42	3.60	3.61	3.64	3.62	3.55	3.49	3.40	3.38	3.37	3.13	3.35	3.30	3.30	3.32	3.35	3.35
165	3.37	3.41	3.83	3.85	3.85	3.87	3.84	3.78	3.74	3.66	3.64	3.64	3.38	3.69	3.61	3.60	3.62	3.64	3.65
170	3.61	3.79	4.09	4.06	4.06	4.07	4.03	3.98	3.94	3.91	3.90	3.89	3.68	4.00	3.92	3.89	3.90	3.91	3.91
175	3.92	4.07	4.24	4.23	4.20	4.19	4.16	4.12	4.11	4.10	4.10	4.11	3.98	4.20	4.15	4.10	4.10	4.10	4.10
180	4.10	4.21	4.29	4.26	4.23	4.23	4.20	4.17	4.17	4.18	4.16	4.19	4.11	4.21	4.30	4.25	4.24	4.22	4.21

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0DEG
 Operators:
 Test Date: 14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 7.700m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: FR03-120-200W-256PCS-3030FLP-RA70-4000K-DRK15HDE90DU	WEIGHT:
SPEC.:	SERIAL No.:
MFR.:	Shielding Angle:
DIM.:	
SUR.:	

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1335	1335	1335	1335	1335														
5	1323	1323	1322	1322	1321														
10	1290	1289	1286	1286	1285														
15	1238	1240	1236	1236	1233														
20	1173	1176	1171	1172	1167														
25	1098	1101	1095	1095	1086														
30	1014	1017	1010	1009	998														
35	923	927	920	917	904														
40	828	832	826	821	808														
45	731	733	726	721	706														
50	628	628	622	615	600														
55	520	520	514	506	485														
60	386	391	402	385	360														
65	262	281	269	264	244														
70	142	158	142	142	126														
75	48.9	65.7	60.7	57.8	47.4														
80	23.8	27.4	23.4	23.4	20.1														
85	9.47	9.87	8.57	7.92	6.42														
90	0.63	0.98	0.69	0.56	0.27														
95	0.24	0.24	0.24	0.24	0.24														
100	0.26	0.27	0.27	0.28	0.28														
105	0.34	0.36	0.35	0.37	0.38														
110	0.50	0.52	0.48	0.51	0.53														
115	0.74	0.75	0.64	0.73	0.72														
120	1.06	1.04	0.87	1.00	0.96														
125	1.39	1.37	1.15	1.23	1.21														
130	1.72	1.69	1.54	1.45	1.44														
135	2.03	2.00	1.93	1.69	1.68														
140	2.30	2.28	2.25	1.91	1.84														
145	2.54	2.53	2.53	2.30	2.00														
150	2.79	2.78	2.80	2.69	2.22														
155	3.05	3.04	3.06	3.10	2.50														
160	3.32	3.28	3.31	3.35	2.94														
165	3.62	3.58	3.57	3.61	3.42														
170	3.87	3.85	3.84	3.85	3.84														
175	4.06	4.05	4.04	4.05	4.10														
180	4.16	4.17	4.17	4.16	4.19														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0DEG
 Operators:
 Test Date: 14 June 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
 Humidity: 65.0%
 Test Distance: 7.700m [K=1.0000]
 Remarks: