



Les Industries Spectralux Inc. Spectralux Industries Inc.

2750 Sabourin, Saint-Laurent (Quebec) H4S 1M2 Canada
Tel.: (514) 332-0082 Fax: (514) 332-3590 www.spectralux.ca

Photometric Report: S0904064-R1

Prepared for: DBM REFLEX Entreprises Inc. · Test Date: 06 April 2009

Luminaire: Roadway LED · Lumcat: X-PL70

Photometric Luminaire Characteristics

Nominal Lamp Power	60.00 W	
Rated Lamp Lumens	3276	Notes
Maximum Candela Value	2441	
Maximum Candela Location	135.0 °H, 70.0 °V	1) Luminaire tested in accordance to IES LM-31-95 at a distance great enough so that the inverse-square law applies.
Maximum Candela at 90° Vertical	25	
Maximum Candela at 80° Vertical	188	2) Field performance may differ from laboratory measurements.
IES Classification	Type IV, Short, Cutoff	
Downward Street Side Lumens	1585	3) Results are valid for the tested material only.
Downward Street Side Efficiency	48.39 %	
Downward House Side Lumens	1691	4) All data published in this report are based on absolute photometry.
Downward House Side Efficiency	51.61 %	
Downward Total Efficiency	100.00 %	5) The luminaire classification is based on IESNA RP-8-00.
Upward Street Side Lumens	0	
Upward Street Side Efficiency	0.00 %	6) The original electronic file or paper report cannot be edited in whole or in part without written consent of Spectralux Industries Inc.
Upward House Side Lumens	0	
Upward House Side Efficiency	0.00 %	
Upward Total Efficiency	0.00 %	
Total Luminaire Lumens	3276	
Total Luminaire Efficiency	100.00 %	



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Luminaire: Roadway LED · Lumcat: X-PL70

Luminaire Classification System (LCS)

Nominal Lamp Power	60.00 W	
Rated Lamp Lumens	3276	Notes
Maximum Candela Value	2441	
Maximum Candela Location	135.0 °H, 70.0 °V	1) Luminaire tested in accordance to IES LM-31-95 at a distance great enough so that the inverse-square law applies.
IES Classification	Type IV, Short	
Downward Street Side Lumens	1585	
Downward Street Side Efficiency	48.39 %	2) Field performance may differ from laboratory measurements.
Downward House Side Lumens	1691	
Downward House Side Efficiency	51.61 %	3) Results are valid for the tested material only.
Downward Total Efficiency	100.00 %	
Upward Street Side Lumens	0	4) All data published in this report are based on absolute photometry.
Upward Street Side Efficiency	0.00 %	
Upward House Side Lumens	0	5) The luminaire classification is based on IESNA TM-15-07.
Upward House Side Efficiency	0.00 %	
Upward Total Efficiency	0.00 %	6) The original electronic file or paper report cannot be edited in whole or in part without written consent of Spectralux Industries Inc.
Total Luminaire Lumens	3276	
Total Luminaire Efficiency	100.00 %	
Trapped Light Lumens	0	
Trapped Light Efficiency	0.00 %	



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Luminaire: Roadway LED · Lumcat: X-PL70

Luminaire Classification System based on 3276 lumens

Downward Forward Light

Luminaire Lumens	1585
% Lamp Lumens	48.39 %
Forward Light Low (0° - 30°)	3.52 %
Forward Light Mid (30° - 60°)	22.39 %
Forward Light High (60° - 80°)	21.92 %
Forward Light Very High (80° - 90°)	0.56 %

Notes

1) Luminaire tested in accordance to IES LM-31-95 at a distance great enough so that the inverse-square law applies.

2) Field performance may differ from laboratory measurements.

3) Results are valid for the tested material only.

4) All data published in this report are based on absolute photometry.

5) The luminaire classification is based on IESNA TM-15-07.

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Downward Back Light

Luminaire Lumens	1691
% Lamp Lumens	51.61 %
Back Light Low (0° - 30°)	3.85 %
Back Light Mid (30° - 60°)	24.52 %
Back Light High (60° - 80°)	22.57 %
Back Light Very High (80° - 90°)	0.43 %

Uplight

Luminaire Lumens	0
% Lamp Lumens	0.00 %
Uplight Low (90° - 100°)	0.00 %
Uplight Mid (100° - 180°)	0.00 %

Trapped Light

Luminaire Lumens	0
% Lamp Lumens	0.00 %



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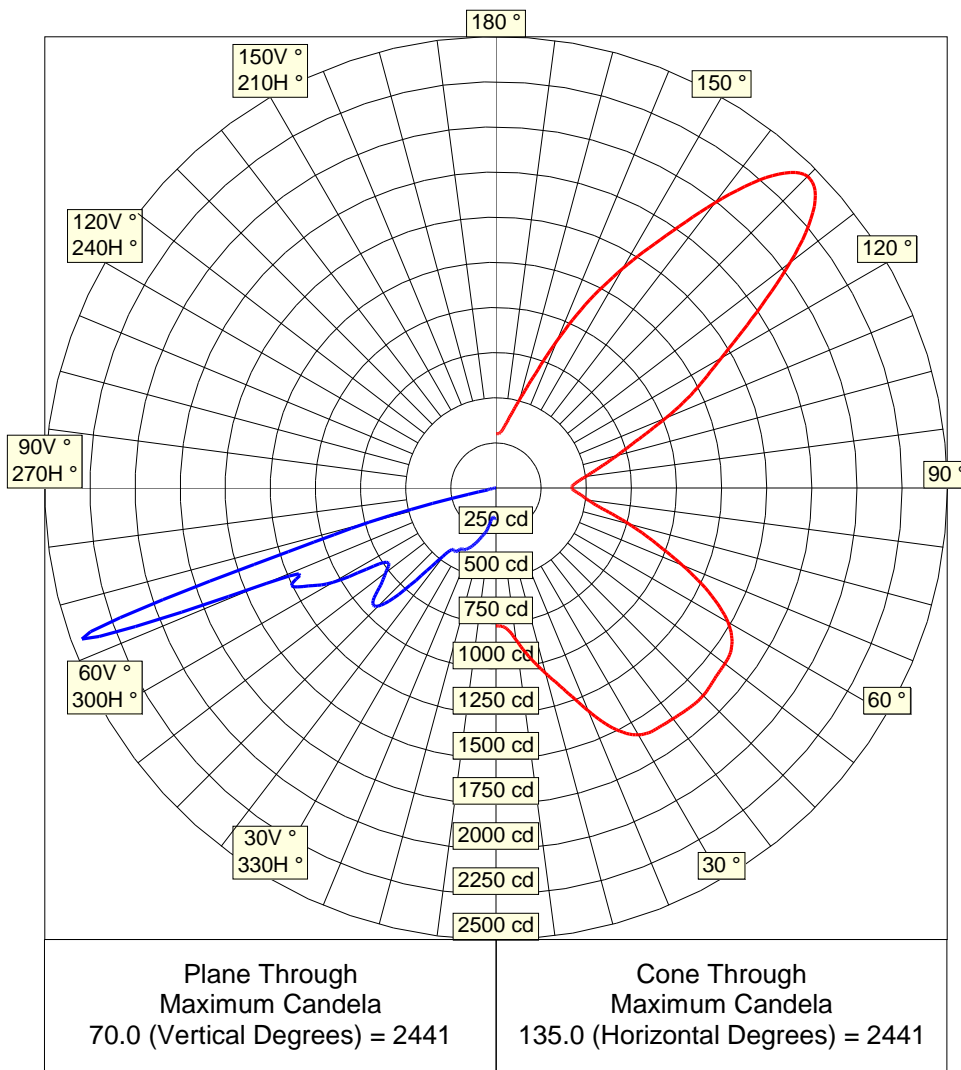
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Luminaire: Roadway LED · Lumcat: X-PL70

Maximum Plane and Maximum Cone Plots of Candela (1)

Plane Angles
Candela Values

0.0	167
2.5	170
5.0	159
7.5	168
10.0	202
12.5	244
15.0	267
17.5	293
20.0	321
22.5	348
25.0	369
27.5	384
30.0	389
32.5	417
35.0	414
37.5	460
40.0	596
42.5	798
45.0	923
47.5	923
50.0	833
52.5	770
55.0	725
57.5	803
60.0	1045
62.5	1172
65.0	1245
67.5	1376
70.0	2441
72.5	1405
75.0	729
77.5	158
80.0	43
82.5	25
85.0	16
87.5	12
90.0	9
92.5	0
95.0	0
97.5	0
100.0	0
102.5	0
105.0	0
107.5	0



Cone Angles
Candela Values

0.0	762
5.0	790
10.0	919
15.0	1060
20.0	1227
25.0	1440
30.0	1577
35.0	1604
40.0	1617
45.0	1623
50.0	1602
55.0	1585
60.0	1483
65.0	1257
70.0	985
75.0	761
80.0	573
85.0	479
90.0	420
95.0	461
100.0	556
105.0	691
110.0	884
115.0	1166
120.0	1440
125.0	1829
130.0	2261
135.0	2441
140.0	2204
145.0	1769
150.0	1405
155.0	1060
160.0	726
165.0	509
170.0	383
175.0	313
180.0	302



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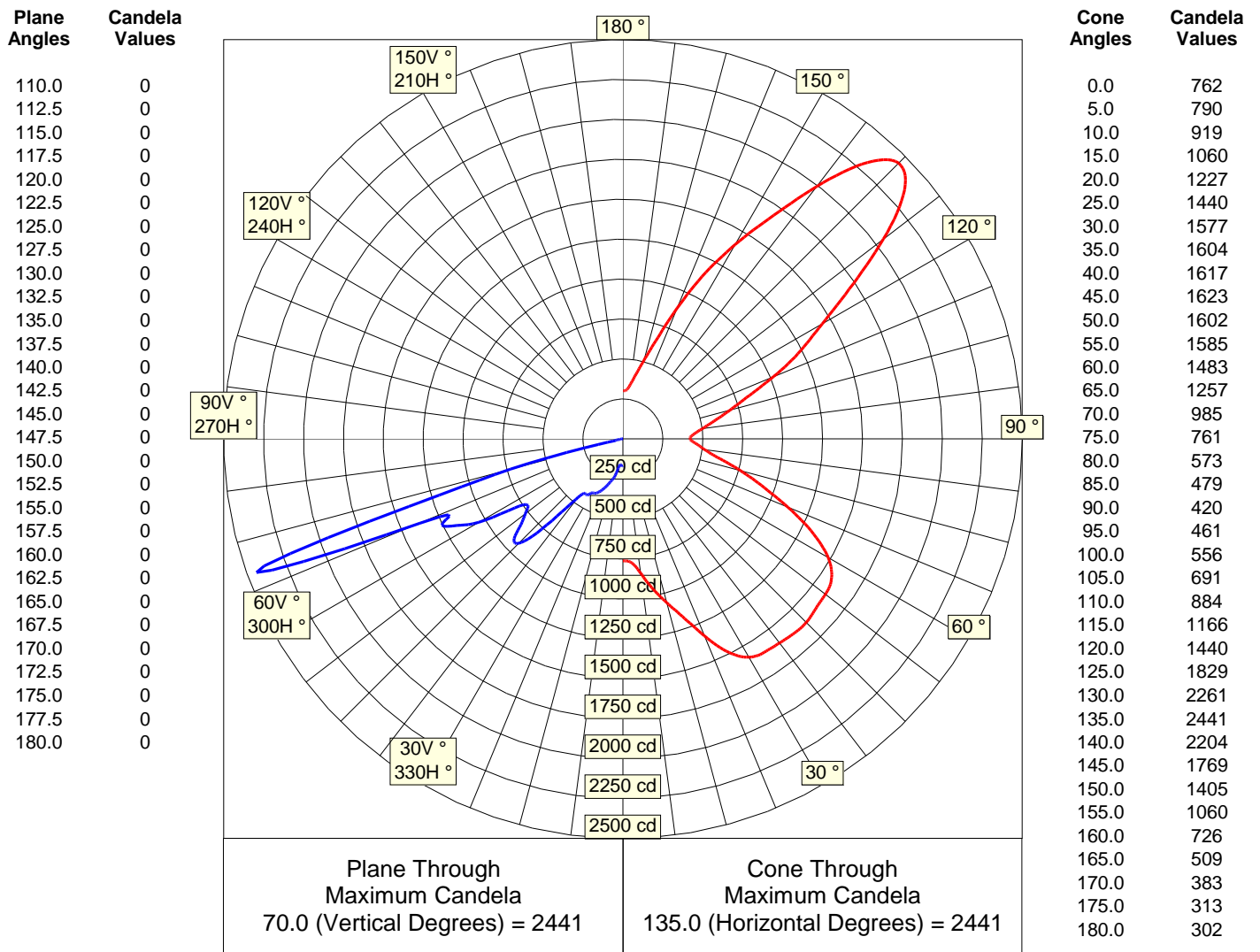
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Luminaire: Roadway LED · Lumcat: X-PL70

Maximum Plane and Maximum Cone Plots of Candela (2)

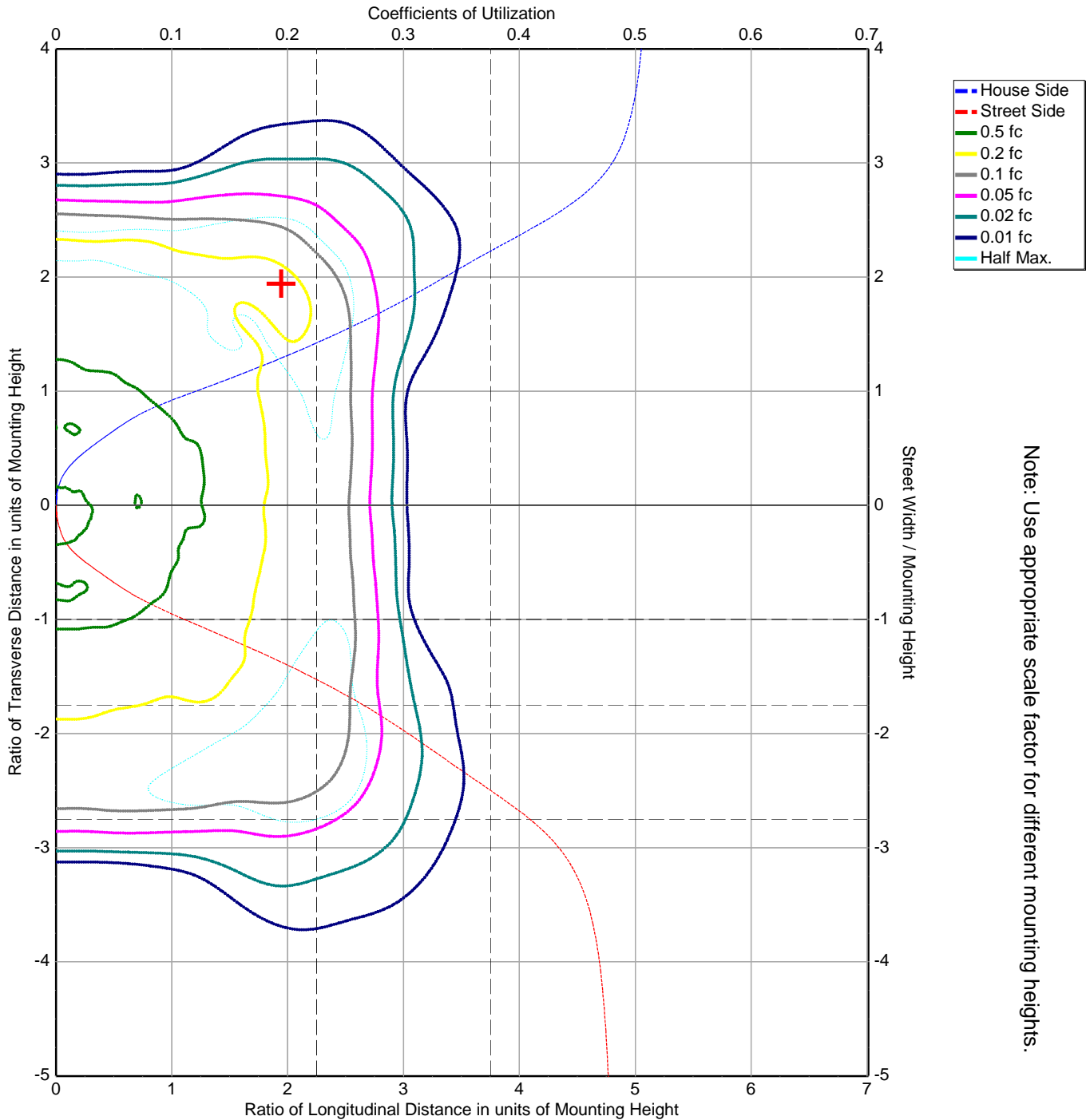




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ISO Illuminance based on 20 feet of Mounting Height and Coefficients of Utilization Diagram (right side)





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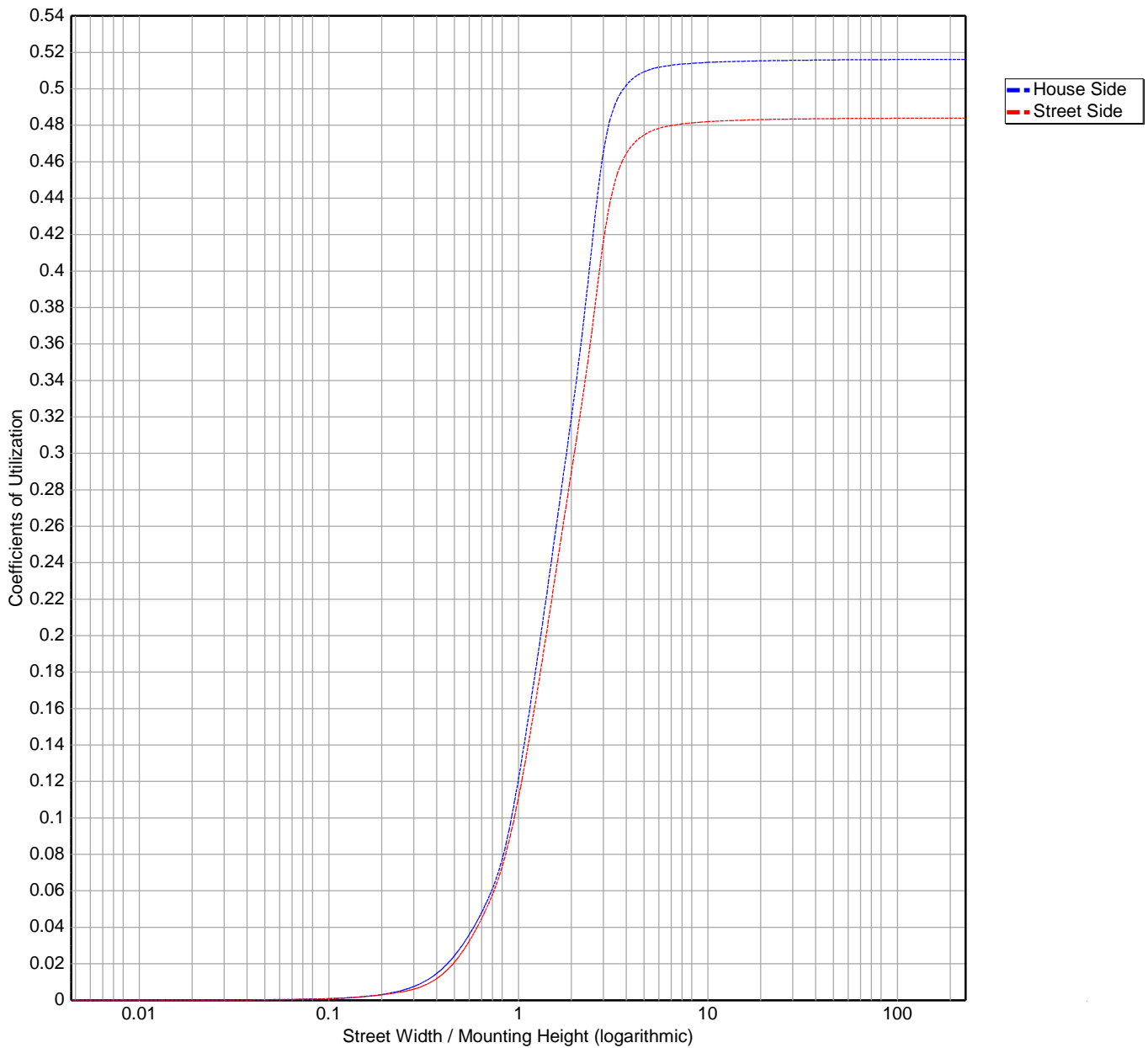
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Coefficients of Utilization





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Lateral Angles

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
87.5	21	22	20	21	19	18	16	16	16
90.0	25	25	21	18	15	14	12	10	11
92.5	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0



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Lateral Angles

	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
V									
e									
r									
t									
i									
c									
a									
l									
A									
n									
g									
l									
e									
s									
0.0	167	167	167	167	167	167	167	167	167
2.5	159	158	157	156	155	156	157	158	160
5.0	169	166	163	162	160	160	156	154	152
7.5	180	178	176	171	164	162	160	159	159
10.0	179	179	175	168	163	162	161	160	159
12.5	161	161	158	157	157	157	156	159	164
15.0	173	172	169	175	185	190	186	186	189
17.5	214	215	215	224	228	227	229	227	232
20.0	279	278	278	278	267	262	259	262	262
22.5	322	337	333	317	311	311	312	305	285
25.0	376	385	381	355	344	358	351	338	319
27.5	401	415	398	377	375	370	358	346	356
30.0	394	414	398	375	384	373	355	360	375
32.5	407	410	401	395	388	369	354	352	364
35.0	435	447	430	418	383	370	375	376	374
37.5	491	515	497	472	448	432	429	435	441
40.0	564	570	573	554	528	509	507	511	537
42.5	641	651	642	609	595	569	568	569	598
45.0	741	734	716	675	668	639	624	630	653
47.5	777	769	749	720	700	667	670	674	711
50.0	757	777	743	707	727	724	734	747	803
52.5	719	733	731	742	779	794	810	840	870
55.0	687	722	789	838	849	834	796	814	812
57.5	730	851	902	898	839	796	780	783	757
60.0	923	956	927	851	781	772	758	750	724
62.5	1087	973	878	834	783	749	735	733	707
65.0	1062	1031	926	868	825	838	854	855	850
67.5	1099	1095	1108	1100	1097	1126	1121	1039	977
70.0	1623	1602	1585	1483	1257	985	761	573	479
72.5	2069	1754	1278	806	508	298	130	89	71
75.0	1019	836	592	352	233	124	55	41	34
77.5	420	359	297	222	156	82	46	28	21
80.0	73	89	127	145	125	76	32	30	20
82.5	37	37	36	45	73	65	35	32	21
85.0	25	25	22	24	29	43	36	26	22
87.5	16	17	17	18	20	24	28	29	30
90.0	11	11	11	14	14	15	15	15	16
92.5	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0



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Lateral Angles

	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
135.0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
V 157.5	0	0	0	0	0	0	0	0	0
e 160.0	0	0	0	0	0	0	0	0	0
r 162.5	0	0	0	0	0	0	0	0	0
t 165.0	0	0	0	0	0	0	0	0	0
i 167.5	0	0	0	0	0	0	0	0	0
c 170.0	0	0	0	0	0	0	0	0	0
a 172.5	0	0	0	0	0	0	0	0	0
l 175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0

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Lateral Angles

	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
V	0.0	167	167	167	167	167	167	167	167
e	2.5	160	161	164	165	166	168	168	170
r	5.0	149	148	148	149	151	153	155	158
t	7.5	158	158	156	154	153	156	160	165
i	10.0	158	157	158	157	158	163	175	192
c	12.5	168	175	179	179	178	185	199	221
a	15.0	202	217	226	232	235	238	239	246
l	17.5	240	250	254	257	267	287	299	299
	20.0	270	283	288	290	300	327	344	343
	22.5	278	304	332	336	334	348	374	390
	25.0	314	335	366	384	379	363	372	396
	27.5	355	355	358	375	384	367	375	399
	30.0	374	372	349	354	382	393	389	418
	32.5	364	371	358	352	372	401	401	417
	35.0	359	360	368	365	373	408	409	417
	37.5	424	426	438	441	425	441	458	469
	40.0	543	546	557	543	534	548	568	590
	42.5	622	622	640	648	653	679	730	772
	45.0	664	677	678	711	724	774	830	885
	47.5	722	727	711	725	752	810	855	899
A	50.0	793	787	808	816	798	799	822	871
n	52.5	838	857	883	899	912	892	845	816
g	55.0	781	815	847	867	916	949	921	867
l	57.5	735	772	800	819	840	878	953	982
e	60.0	706	749	771	790	815	854	904	961
s	62.5	700	737	747	766	809	856	906	990
	65.0	850	889	915	940	932	935	978	1074
	67.5	953	1016	1121	1235	1293	1315	1360	1392
	70.0	420	461	556	691	884	1166	1440	1829
	72.5	64	67	79	106	224	481	826	1156
	75.0	31	32	39	57	118	198	329	498
	77.5	19	21	30	38	79	170	244	269
	80.0	16	21	29	30	84	126	98	63
	82.5	18	22	27	31	70	46	32	29
	85.0	20	22	22	29	31	24	19	19
	87.5	29	29	26	21	21	17	16	14
	90.0	15	16	14	13	12	12	11	10
	92.5	0	0	0	0	0	0	0	0
	95.0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0
	100.0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0
	105.0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0
	110.0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0
	115.0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0
	120.0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0
	125.0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0
	130.0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0



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Lateral Angles

	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
135.0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0

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Lateral Angles

	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
V	0.0	167	167	167	167	167	167	167	167
e	2.5	170	172	173	173	172	173	172	171
r	5.0	159	162	163	165	165	166	166	165
t	7.5	168	172	176	179	180	182	183	183
i	10.0	202	204	208	208	211	216	221	222
c	12.5	244	248	247	235	227	228	230	229
a	15.0	267	271	273	262	252	246	239	235
l	17.5	293	300	307	301	277	262	262	277
	20.0	321	335	343	336	300	278	283	300
	22.5	348	358	375	367	336	314	311	323
	25.0	369	386	405	377	344	352	353	347
	27.5	384	399	399	357	352	369	372	357
	30.0	389	401	395	356	353	358	351	343
	32.5	417	418	400	354	370	364	335	344
	35.0	414	421	401	404	403	375	359	351
	37.5	460	473	470	459	461	458	447	444
	40.0	596	588	609	594	594	571	561	565
	42.5	798	795	781	730	710	682	665	630
	45.0	923	927	896	833	770	723	697	681
	47.5	923	918	891	846	798	744	721	726
A	50.0	833	825	835	804	797	793	771	770
n	52.5	770	764	786	809	845	830	822	842
g	55.0	725	757	818	863	867	849	874	886
l	57.5	803	834	900	902	896	886	911	907
e	60.0	1045	989	958	944	940	929	904	888
s	62.5	1172	1159	1068	991	971	935	938	954
	65.0	1245	1255	1177	1121	1133	1174	1183	1179
	67.5	1376	1510	1586	1575	1512	1520	1406	1264
	70.0	2441	2204	1769	1405	1060	726	509	383
	72.5	1405	1365	1050	690	353	125	69	58
	75.0	729	658	436	280	164	82	43	32
	77.5	158	201	234	192	140	62	30	27
	80.0	43	45	59	91	101	72	25	32
	82.5	25	25	28	32	41	55	28	25
	85.0	16	16	17	18	20	25	21	16
	87.5	12	12	13	14	15	17	20	22
	90.0	9	9	9	12	11	12	14	15
	92.5	0	0	0	0	0	0	0	0
	95.0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0
	100.0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0
	105.0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0
	110.0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0
	115.0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0
	120.0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0
	125.0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0
	130.0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0



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Lateral Angles

	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
135.0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0

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Lateral Angles

	180.0
	0.0 167
	2.5 169
	5.0 166
	7.5 184
	10.0 213
	12.5 227
	15.0 244
	17.5 278
	20.0 310
V e r t i c a l	22.5 315
	25.0 306
	27.5 301
	30.0 315
	32.5 341
	35.0 366
	37.5 457
	40.0 543
	42.5 605
	45.0 665
A n g l e s	47.5 722
	50.0 795
	52.5 864
	55.0 876
	57.5 892
	60.0 884
	62.5 985
	65.0 1220
	67.5 1202
	70.0 302
	72.5 53
	75.0 28
	77.5 18
	80.0 18
	82.5 20
	85.0 14
	87.5 26
	90.0 18
92.5 0	
95.0 0	
97.5 0	
100.0 0	
102.5 0	
105.0 0	
107.5 0	
110.0 0	
112.5 0	
115.0 0	
117.5 0	
120.0 0	
122.5 0	
125.0 0	
127.5 0	
130.0 0	
132.5 0	



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Lateral Angles

	180.0
135.0	0
137.5	0
140.0	0
142.5	0
145.0	0
147.5	0
150.0	0
152.5	0
155.0	0
157.5	0
160.0	0
162.5	0
165.0	0
167.5	0
170.0	0
172.5	0
175.0	0
177.5	0
180.0	0

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