



IES ROAD REPORT

PHOTOMETRIC FILENAME : ALS MD S UV 850.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2017011601(s)
[TESTLAB] QSSI
[ISSUE DATE] 01/16/2017
[MANUFAC] LumenFocus, LLC.
[LUMCAT] ALS MD S UV 850
[LUMINAIRE] ALS, ONE 22W LED ARRAY, 30 DEGREE OPTICS, CLEAR GLASS LENS
[LAMPCAT] SAMSUNG 351B LEDs
[LAMP] 24 SAMSUNG 351B LEDs

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2682
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	24
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Maximum Candela	5696.558
Maximum Candela Angle	277.5H 2.5V
Maximum Candela (<90 Degrees Vertical)	5696.558
Maximum Candela Angle (<90 Degrees Vertical)	277.5H 2.5V
Maximum Candela At 90 Degrees Vertical	.388 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	15.747 (0.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	965.1	N.A.	36.0
FM - Front-Medium (30-60)	301.3	N.A.	11.2
FH - Front-High (60-80)	53.5	N.A.	2.0
FVH - Front-Very High (80-90)	1.1	N.A.	0.0
BL - Back-Low (0-30)	965.4	N.A.	36.0
BM - Back-Medium (30-60)	296.8	N.A.	11.1
BH - Back-High (60-80)	56.6	N.A.	2.1
BVH - Back-Very High (80-90)	1.1	N.A.	0.0
UL - Uplight-Low (90-100)	0.3	N.A.	0.0
UH - Uplight-High (100-180)	40.7	N.A.	1.5
Total	2681.9	N.A.	100.0
BUG Rating	B2-U2-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5564.499	5568.042	5571.802	5575.776	5579.961	5584.352	5588.948	5593.742	5598.733	5603.915
5.0	5277.005	5279.259	5282.142	5285.682	5289.906	5294.843	5300.520	5306.963	5304.554	5300.677
7.5	4841.040	4839.788	4839.528	4840.271	4842.030	4844.816	4848.640	4847.395	4846.406	4846.352
10.0	4293.615	4296.587	4300.780	4306.135	4312.594	4320.094	4321.584	4315.222	4310.309	4306.896
12.5	3719.999	3719.035	3719.473	3721.402	3724.910	3730.085	3723.879	3714.869	3707.203	3700.855
15.0	3120.108	3113.590	3108.579	3105.069	3103.059	3102.540	3094.402	3087.375	3081.672	3077.256
17.5	2528.459	2522.231	2517.418	2514.010	2511.992	2510.512	2504.667	2500.065	2496.664	2494.420
20.0	2005.851	2000.772	1996.933	1994.319	1992.913	1991.699	1988.565	1986.492	1985.437	1985.359
22.5	1568.856	1565.547	1563.267	1561.997	1561.715	1561.562	1560.698	1560.715	1561.578	1563.251
25.0	1216.099	1214.875	1214.480	1214.898	1216.106	1218.680	1222.722	1227.270	1232.250	1237.590
27.5	941.451	941.952	943.096	944.871	947.261	950.538	954.851	959.958	965.892	972.683
30.0	728.689	730.118	732.064	734.521	737.482	741.201	745.536	750.180	755.087	760.214
32.5	566.162	567.744	569.718	572.086	574.848	579.390	585.362	591.732	598.500	605.055
35.0	445.376	447.936	450.774	453.877	457.230	460.796	464.669	468.901	473.510	478.036
37.5	356.621	359.381	362.363	365.576	369.025	371.803	374.312	377.040	379.986	382.860
40.0	291.986	294.035	296.247	298.628	301.182	303.356	305.437	307.688	310.110	312.270
42.5	244.826	246.332	247.959	249.711	251.591	253.283	254.967	256.775	258.707	260.202
45.0	209.851	210.957	212.154	213.446	214.833	216.186	217.586	219.080	220.670	221.664
47.5	182.690	183.480	184.344	185.283	186.300	187.522	188.856	190.255	191.719	192.571
50.0	159.882	160.359	160.901	161.510	162.189	163.279	164.538	165.869	167.274	168.358
52.5	140.313	140.649	141.039	141.482	141.977	142.811	143.776	144.802	145.891	146.877
55.0	121.936	122.412	122.940	123.516	124.140	125.014	125.977	126.980	128.022	128.774
57.5	105.819	106.121	106.469	106.868	107.320	108.364	109.557	110.787	112.050	112.793
60.0	93.273	93.393	93.545	93.730	93.948	94.760	95.719	96.730	97.798	98.242
62.5	83.381	83.498	83.641	83.811	84.007	84.506	85.081	85.689	86.332	85.975
65.0	70.654	71.024	71.436	71.884	72.367	73.370	74.450	75.528	76.596	75.674
67.5	57.310	57.690	58.109	58.567	59.068	60.053	61.154	62.326	63.577	62.873
70.0	44.945	45.646	46.379	47.137	47.912	48.302	48.694	49.135	49.629	48.894
72.5	28.878	29.919	31.013	32.161	33.361	34.311	35.249	36.191	37.124	36.616
75.0	16.281	17.194	18.136	19.108	20.112	20.926	21.783	22.708	23.709	23.526
77.5	8.389	8.788	9.213	9.674	10.176	10.389	10.625	10.904	11.229	11.220
80.0	3.701	3.716	3.742	3.779	3.829	3.808	3.792	3.786	3.790	3.921
82.5	1.786	1.754	1.725	1.699	1.677	1.641	1.606	1.574	1.544	1.583
85.0	0.902	0.881	0.862	0.846	0.832	0.821	0.813	0.803	0.793	0.789
87.5	0.438	0.423	0.410	0.397	0.385	0.389	0.394	0.400	0.407	0.398
90.0	0.249	0.245	0.241	0.237	0.233	0.227	0.222	0.218	0.215	0.216
92.5	0.215	0.221	0.228	0.234	0.239	0.228	0.216	0.204	0.194	0.198
95.0	0.215	0.219	0.223	0.228	0.233	0.235	0.236	0.237	0.236	0.235
97.5	0.240	0.234	0.227	0.221	0.215	0.226	0.237	0.247	0.257	0.257
100.0	0.257	0.253	0.248	0.244	0.240	0.244	0.248	0.253	0.258	0.263
102.5	0.284	0.277	0.270	0.263	0.257	0.257	0.257	0.257	0.259	0.270
105.0	0.301	0.297	0.292	0.287	0.283	0.288	0.294	0.298	0.301	0.299
107.5	0.301	0.301	0.301	0.301	0.301	0.306	0.311	0.317	0.322	0.323
110.0	0.326	0.326	0.326	0.326	0.325	0.325	0.324	0.323	0.323	0.328
112.5	0.369	0.369	0.369	0.369	0.367	0.361	0.354	0.348	0.345	0.350
115.0	0.386	0.386	0.386	0.386	0.386	0.381	0.376	0.370	0.367	0.371
117.5	0.412	0.405	0.399	0.392	0.388	0.393	0.399	0.405	0.408	0.407
120.0	0.481	0.476	0.471	0.466	0.460	0.457	0.454	0.452	0.453	0.456
122.5	0.618	0.611	0.604	0.596	0.588	0.581	0.574	0.565	0.560	0.562
125.0	0.816	0.804	0.792	0.779	0.769	0.772	0.774	0.775	0.770	0.758
127.5	1.134	1.128	1.122	1.114	1.106	1.105	1.103	1.100	1.094	1.083
130.0	1.545	1.552	1.557	1.560	1.559	1.553	1.544	1.534	1.526	1.519

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CANDELA TABULATION - (Cont.)

132.5	2.207	2.217	2.225	2.230	2.227	2.209	2.189	2.166	2.151	2.140
135.0	3.254	3.264	3.270	3.272	3.263	3.234	3.201	3.164	3.149	3.150
137.5	4.740	4.721	4.697	4.668	4.645	4.637	4.623	4.601	4.594	4.594
140.0	6.878	6.832	6.778	6.716	6.675	6.680	6.677	6.667	6.660	6.650
142.5	9.918	9.851	9.773	9.683	9.628	9.638	9.636	9.623	9.610	9.591
145.0	14.126	14.024	13.908	13.776	13.702	13.716	13.716	13.699	13.666	13.618
147.5	19.570	19.559	19.527	19.470	19.430	19.420	19.388	19.335	19.183	19.010
150.0	26.680	26.725	26.743	26.734	26.705	26.656	26.582	26.483	26.190	25.869
152.5	34.245	34.282	34.293	34.278	34.237	34.170	34.079	33.950	33.617	33.264
155.0	41.278	41.279	41.256	41.209	41.137	41.042	40.926	40.755	40.417	40.060
157.5	47.203	47.165	47.107	47.031	46.882	46.692	46.492	46.284	46.059	45.812
160.0	51.368	51.313	51.247	51.167	50.975	50.741	50.494	50.301	50.158	50.006
162.5	53.935	53.835	53.727	53.614	53.461	53.296	53.120	52.980	52.847	52.706
165.0	54.974	54.860	54.744	54.627	54.527	54.425	54.322	54.223	54.125	54.029
167.5	54.433	54.345	54.261	54.181	54.105	54.033	53.970	53.916	53.864	53.736
170.0	52.578	52.516	52.466	52.422	52.384	52.358	52.355	52.360	52.296	52.189
172.5	49.513	49.511	49.534	49.610	49.700	49.799	49.874	49.813	49.761	49.679
175.0	45.049	45.121	45.318	45.506	45.630	45.772	45.999	46.177	46.303	46.369
177.5	41.090	41.125	41.144	41.159	41.168	41.165	41.130	41.078	41.017	40.949
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5609.284	5609.069	5604.694	5600.608	5596.819	5593.332	5590.157	5587.299	5584.766	5582.562
5.0	5297.319	5294.456	5292.064	5290.120	5288.600	5287.875	5288.047	5289.010	5290.774	5293.354
7.5	4847.220	4848.995	4851.662	4849.419	4847.155	4845.999	4845.957	4847.039	4849.252	4852.529
10.0	4305.036	4304.778	4299.840	4295.515	4292.432	4290.579	4289.948	4291.796	4296.266	4301.806
12.5	3695.797	3693.327	3692.747	3692.731	3693.172	3693.962	3693.612	3692.587	3693.501	3696.398
15.0	3074.087	3080.126	3087.624	3096.336	3106.226	3117.541	3107.873	3100.027	3093.026	3086.814
17.5	2495.339	2502.603	2510.971	2520.406	2530.865	2532.682	2524.940	2517.863	2511.385	2505.441
20.0	1989.392	1997.380	2006.301	2016.120	2026.796	2023.215	2016.980	2011.249	2005.963	2000.903
22.5	1569.246	1577.576	1586.676	1596.519	1605.597	1600.493	1595.776	1591.390	1587.277	1582.654
25.0	1242.042	1247.133	1253.150	1260.114	1264.453	1261.250	1258.340	1255.678	1253.216	1245.482
27.5	977.997	983.460	989.073	994.768	996.733	994.929	993.342	991.934	989.379	960.414
30.0	765.781	771.957	778.761	786.212	788.779	788.493	788.391	788.442	788.136	786.665
32.5	608.749	612.761	617.076	621.682	623.136	623.751	624.536	625.467	624.524	620.615
35.0	481.355	484.954	488.829	492.976	494.301	495.373	496.586	497.922	498.086	497.296
37.5	385.300	387.972	390.874	394.006	395.533	397.065	398.614	400.163	400.083	399.377
40.0	313.853	315.608	317.533	319.610	321.617	323.790	326.128	328.629	328.389	327.406
42.5	261.058	262.049	263.176	264.417	265.656	267.010	268.477	270.054	270.041	269.920
45.0	221.976	222.382	222.882	223.472	224.149	224.927	225.806	226.785	226.557	226.244
47.5	192.837	193.138	193.469	193.639	193.451	193.393	193.471	193.739	194.608	195.468
50.0	169.171	170.007	170.860	171.056	170.072	169.152	168.298	167.838	169.086	170.356
52.5	147.816	148.824	149.901	150.154	149.153	148.160	147.172	146.724	148.035	149.394
55.0	129.392	130.067	130.800	130.843	130.065	129.327	128.626	128.550	129.806	131.054
57.5	113.300	113.842	114.418	114.156	113.137	112.195	111.335	111.522	113.322	115.057
60.0	98.464	98.763	99.142	98.616	97.353	96.103	94.865	95.267	97.842	100.474
62.5	85.314	84.738	84.256	83.292	82.026	80.826	79.694	80.314	82.721	85.169
65.0	74.187	72.763	71.405	69.806	68.093	66.431	64.821	65.355	67.630	69.907
67.5	61.634	60.382	59.107	57.594	55.956	54.277	52.551	53.107	55.310	57.651
70.0	47.923	47.002	46.133	45.172	44.185	43.218	42.271	42.847	44.209	45.546
72.5	35.841	35.053	34.247	33.360	32.451	31.539	30.618	31.383	32.945	34.608
75.0	23.195	22.902	22.645	22.316	21.956	21.581	21.186	21.818	22.801	23.787
77.5	11.160	11.082	10.979	10.938	10.903	10.856	10.793	11.437	12.328	13.294

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CANDELA TABULATION - (Cont.)

80.0	4.072	4.235	4.407	4.479	4.545	4.618	4.700	4.852	5.033	5.231
82.5	1.632	1.687	1.749	1.743	1.733	1.724	1.717	1.705	1.692	1.674
85.0	0.787	0.787	0.789	0.777	0.763	0.747	0.730	0.728	0.726	0.723
87.5	0.390	0.382	0.373	0.379	0.384	0.388	0.391	0.388	0.385	0.383
90.0	0.217	0.216	0.215	0.222	0.229	0.238	0.248	0.243	0.236	0.226
92.5	0.203	0.209	0.215	0.215	0.215	0.215	0.215	0.224	0.234	0.245
95.0	0.234	0.232	0.231	0.229	0.228	0.226	0.224	0.222	0.220	0.218
97.5	0.257	0.257	0.257	0.257	0.257	0.257	0.258	0.260	0.260	0.260
100.0	0.268	0.272	0.274	0.272	0.270	0.269	0.269	0.276	0.284	0.293
102.5	0.281	0.292	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301
105.0	0.298	0.300	0.302	0.306	0.308	0.310	0.310	0.306	0.303	0.301
107.5	0.322	0.320	0.319	0.325	0.331	0.338	0.341	0.334	0.324	0.312
110.0	0.333	0.339	0.344	0.344	0.344	0.344	0.348	0.359	0.370	0.380
112.5	0.355	0.358	0.360	0.358	0.357	0.355	0.357	0.364	0.372	0.382
115.0	0.377	0.382	0.388	0.392	0.394	0.396	0.395	0.393	0.391	0.389
117.5	0.405	0.404	0.405	0.411	0.418	0.426	0.430	0.432	0.433	0.432
120.0	0.460	0.462	0.464	0.464	0.463	0.461	0.462	0.465	0.470	0.475
122.5	0.563	0.565	0.569	0.576	0.582	0.587	0.587	0.582	0.576	0.568
125.0	0.746	0.734	0.733	0.740	0.745	0.749	0.749	0.748	0.746	0.744
127.5	1.069	1.053	1.044	1.042	1.040	1.039	1.034	1.026	1.018	1.009
130.0	1.512	1.504	1.500	1.494	1.484	1.470	1.453	1.436	1.419	1.403
132.5	2.126	2.108	2.105	2.107	2.105	2.102	2.063	2.022	1.978	1.938
135.0	3.146	3.137	3.124	3.109	3.090	3.067	3.018	2.962	2.896	2.832
137.5	4.590	4.580	4.544	4.504	4.462	4.424	4.411	4.393	4.371	4.328
140.0	6.631	6.603	6.541	6.466	6.377	6.282	6.206	6.129	6.054	5.987
142.5	9.560	9.516	9.433	9.348	9.262	9.165	9.036	8.890	8.728	8.465
145.0	13.556	13.460	13.256	13.041	12.815	12.641	12.516	12.381	12.234	11.850
147.5	18.826	18.631	18.406	18.154	17.876	17.672	17.491	17.276	17.027	16.411
150.0	25.527	25.229	25.003	24.760	24.498	24.357	24.248	24.143	23.961	23.151
152.5	32.892	32.637	32.456	32.242	31.994	31.642	31.297	30.961	30.561	29.930
155.0	39.681	39.478	39.342	39.208	38.998	38.521	38.037	37.546	37.066	36.524
157.5	45.541	45.265	44.982	44.689	44.314	43.850	43.360	42.844	42.487	42.142
160.0	49.830	49.581	49.324	49.059	48.762	48.467	48.183	47.862	47.461	47.013
162.5	52.500	52.251	52.005	51.735	51.392	51.037	50.669	50.406	50.098	49.868
165.0	53.777	53.526	53.273	53.048	52.830	52.616	52.399	52.181	51.964	51.640
167.5	53.570	53.405	53.226	53.044	52.867	52.694	52.524	52.384	52.129	51.798
170.0	52.092	51.965	51.844	51.732	51.630	51.520	51.398	51.182	50.939	50.701
172.5	49.603	49.597	49.636	49.678	49.527	49.398	49.191	48.910	48.639	48.379
175.0	46.363	46.346	45.767	45.035	44.430	44.017	43.921	43.820	43.711	43.594
177.5	40.874	40.793	40.707	40.616	40.441	40.451	40.465	40.479	40.493	40.507
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5580.696	5579.172	5580.477	5582.929	5585.773	5589.016	5592.661	5596.713	5601.176	5606.050
5.0	5296.760	5301.004	5304.461	5307.623	5311.458	5315.964	5321.136	5327.214	5326.813	5322.983
7.5	4856.734	4861.849	4867.861	4874.756	4883.357	4880.156	4874.039	4868.844	4864.571	4861.216
10.0	4308.392	4315.996	4322.945	4319.692	4316.935	4312.240	4308.490	4305.663	4307.447	4309.214
12.5	3701.324	3703.866	3699.534	3702.468	3692.676	3690.143	3690.911	3695.691	3701.332	3707.793
15.0	3081.265	3076.037	3093.158	3067.730	3066.280	3067.515	3072.256	3077.650	3083.640	3090.164
17.5	2499.838	2494.646	2500.871	2487.491	2487.678	2491.992	2496.724	2501.805	2507.169	2509.790
20.0	1995.532	1990.451	1989.562	1984.450	1986.696	1990.495	1994.522	1998.709	2002.172	2002.205
22.5	1577.665	1572.913	1568.390	1568.342	1571.380	1574.532	1577.740	1580.942	1581.320	1580.182
25.0	1239.125	1235.724	1235.072	1235.330	1237.497	1239.741	1242.011	1244.942	1242.090	1239.923

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CANDELA TABULATION - (Cont.)

27.5	928.485	897.110	859.650	866.402	886.843	905.886	923.406	937.999	948.416	956.843
30.0	785.649	790.314	782.482	773.008	765.034	759.028	755.067	752.982	752.493	753.689
32.5	616.474	614.988	609.322	610.200	610.654	610.633	610.087	607.590	604.651	601.532
35.0	496.542	497.837	494.754	492.067	489.629	487.435	485.834	484.369	482.806	480.789
37.5	398.797	399.573	397.783	396.181	394.465	392.612	390.761	389.465	388.235	387.058
40.0	326.364	325.989	324.435	323.517	322.483	321.317	320.232	319.325	318.159	316.715
42.5	269.862	270.317	269.714	269.324	268.844	268.262	267.802	267.487	267.089	266.601
45.0	225.837	225.525	226.135	227.096	227.897	228.522	228.514	228.194	227.842	227.449
47.5	196.314	197.249	198.134	199.112	200.047	200.932	200.197	199.031	197.966	197.002
50.0	171.643	172.986	173.721	174.553	175.435	176.363	175.684	174.685	173.622	172.491
52.5	150.800	152.181	152.941	153.717	154.507	155.307	154.701	153.998	153.252	152.459
55.0	132.288	133.469	134.590	135.688	136.761	137.711	136.982	136.275	135.586	134.916
57.5	116.719	118.084	118.868	119.701	120.585	121.313	120.806	120.270	119.704	119.123
60.0	103.163	105.177	105.588	106.049	106.559	106.946	106.726	106.464	106.158	105.850
62.5	87.656	89.857	91.488	93.013	94.425	95.278	95.077	94.881	94.688	94.476
65.0	72.183	74.773	77.771	80.638	83.368	84.632	83.762	83.023	82.420	82.001
67.5	60.140	62.615	64.982	67.441	69.995	71.294	70.907	70.439	69.884	69.110
70.0	47.271	48.646	50.948	53.293	55.679	56.620	56.247	55.943	55.707	54.807
72.5	36.823	37.850	39.161	40.591	42.143	42.468	41.886	41.327	40.788	39.456
75.0	25.161	25.691	26.675	27.724	28.837	29.200	29.076	28.872	28.583	27.367
77.5	14.659	15.249	16.147	17.059	17.984	18.059	17.837	17.662	17.534	16.799
80.0	5.577	5.867	6.525	7.223	7.960	8.112	8.055	7.956	7.810	7.626
82.5	1.685	1.735	1.941	2.171	2.425	2.533	2.567	2.550	2.480	2.460
85.0	0.732	0.742	0.781	0.820	0.858	0.874	0.882	0.883	0.877	0.872
87.5	0.386	0.385	0.393	0.402	0.412	0.412	0.412	0.413	0.413	0.424
90.0	0.215	0.219	0.227	0.234	0.241	0.251	0.257	0.259	0.257	0.257
92.5	0.257	0.256	0.254	0.251	0.248	0.241	0.235	0.234	0.234	0.237
95.0	0.216	0.228	0.239	0.250	0.257	0.254	0.250	0.244	0.239	0.241
97.5	0.259	0.269	0.278	0.286	0.292	0.289	0.287	0.284	0.282	0.285
100.0	0.301	0.300	0.299	0.300	0.301	0.301	0.301	0.301	0.301	0.301
102.5	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.303	0.307
105.0	0.304	0.315	0.324	0.332	0.335	0.332	0.329	0.326	0.326	0.329
107.5	0.306	0.316	0.327	0.338	0.344	0.344	0.344	0.344	0.347	0.351
110.0	0.386	0.383	0.380	0.379	0.377	0.374	0.371	0.369	0.369	0.373
112.5	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386
115.0	0.386	0.386	0.386	0.386	0.392	0.399	0.405	0.410	0.409	0.406
117.5	0.422	0.410	0.399	0.389	0.395	0.405	0.416	0.427	0.434	0.438
120.0	0.464	0.451	0.437	0.424	0.429	0.437	0.445	0.454	0.461	0.470
122.5	0.558	0.553	0.546	0.537	0.539	0.541	0.544	0.547	0.544	0.542
125.0	0.730	0.721	0.711	0.701	0.701	0.701	0.701	0.700	0.689	0.678
127.5	0.977	0.953	0.929	0.909	0.915	0.920	0.923	0.922	0.911	0.897
130.0	1.397	1.394	1.386	1.372	1.354	1.337	1.320	1.304	1.283	1.262
132.5	1.926	1.929	1.929	1.927	1.920	1.910	1.896	1.877	1.856	1.831
135.0	2.798	2.793	2.785	2.773	2.759	2.741	2.722	2.693	2.658	2.623
137.5	4.252	4.182	4.114	4.052	3.996	3.940	3.885	3.842	3.797	3.745
140.0	5.934	5.912	5.878	5.797	5.697	5.596	5.493	5.436	5.386	5.333
142.5	8.500	8.431	8.357	8.230	8.088	7.941	7.790	7.699	7.605	7.507
145.0	11.777	11.593	11.413	11.307	11.186	11.050	10.904	10.765	10.622	10.476
147.5	16.253	15.958	15.685	15.503	15.316	15.124	14.926	14.721	14.511	14.298
150.0	22.644	22.001	21.518	21.224	20.921	20.611	20.292	19.966	19.639	19.309
152.5	29.494	28.917	28.454	28.046	27.634	27.221	26.797	26.374	25.951	25.475
155.0	36.009	35.435	35.007	34.578	34.147	33.685	33.151	32.641	32.158	31.550
157.5	41.752	41.329	40.881	40.433	39.985	39.428	38.815	38.204	37.595	37.559
160.0	46.484	46.046	45.621	45.198	44.763	44.265	43.752	43.225	43.077	43.558
162.5	49.477	49.014	48.570	48.145	47.783	47.434	47.091	46.829	47.830	48.760
165.0	51.214	50.790	50.366	49.994	49.647	49.307	48.972	50.251	51.561	52.847

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CANDELA TABULATION - (Cont.)

167.5	51.470	51.145	50.822	50.513	50.217	50.375	51.854	53.309	54.743	55.559
170.0	50.402	50.099	49.810	49.839	51.089	52.405	53.785	54.715	54.698	54.688
172.5	48.360	48.623	49.055	49.649	49.833	49.944	50.085	50.253	50.416	50.559
175.0	43.556	43.539	43.517	43.488	43.453	43.385	43.341	43.249	43.371	43.476
177.5	40.518	40.528	40.535	40.537	40.537	40.533	40.524	40.510	40.492	40.469
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

Vert. Horizontal Angles
Angles

	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5611.339	5617.042	5629.817	5628.616	5626.621	5624.214	5622.070	5620.196	5618.599	5617.285
5.0	5317.940	5313.629	5310.060	5307.243	5305.186	5303.896	5303.521	5304.194	5305.932	5308.749
7.5	4857.516	4853.253	4850.141	4848.182	4847.377	4848.757	4863.530	4879.113	4895.486	4912.627
10.0	4310.709	4311.845	4312.534	4318.500	4326.692	4337.114	4349.794	4358.232	4348.980	4338.386
12.5	3715.026	3714.071	3711.008	3710.134	3711.451	3715.332	3721.878	3726.665	3729.540	3730.351
15.0	3088.427	3083.306	3076.630	3068.256	3063.060	3067.974	3074.448	3082.458	3089.823	3057.684
17.5	2510.479	2511.124	2511.648	2511.508	2509.254	2506.523	2503.225	2499.275	2503.845	2469.920
20.0	2002.059	2001.659	2000.930	1995.664	1990.260	1985.430	1981.124	1974.743	1971.080	1956.224
22.5	1578.867	1577.313	1573.147	1563.704	1552.431	1539.228	1526.444	1523.922	1522.113	1526.430
25.0	1237.535	1234.871	1222.412	1210.437	1202.128	1197.531	1200.982	1203.659	1201.137	1197.157
27.5	963.162	964.695	943.147	916.329	884.081	846.254	857.914	880.418	902.411	931.523
30.0	756.609	759.628	760.589	761.321	761.796	760.053	752.550	748.663	735.963	732.577
32.5	598.206	596.575	596.071	595.717	595.497	593.192	588.253	584.599	577.470	576.109
35.0	478.289	475.562	472.596	469.346	465.791	463.028	460.554	458.884	457.236	458.328
37.5	385.957	385.238	384.133	382.622	380.684	377.841	374.671	371.388	368.832	371.391
40.0	315.192	314.318	313.465	312.626	311.642	309.491	307.128	304.597	303.318	306.011
42.5	265.847	264.717	263.486	262.147	260.772	259.322	257.499	255.447	255.083	257.392
45.0	226.769	225.795	224.744	223.613	222.968	223.165	223.510	223.951	224.897	226.952
47.5	196.185	195.380	194.529	193.628	192.674	191.624	190.464	189.410	190.488	192.924
50.0	171.684	170.958	170.182	169.352	168.632	167.954	167.242	166.573	167.245	168.584
52.5	151.816	151.196	150.568	149.929	149.309	148.704	148.108	147.549	148.550	149.953
55.0	134.314	133.721	133.133	132.545	131.991	131.323	131.079	129.748	130.884	132.274
57.5	118.774	118.324	117.766	117.105	116.890	116.703	116.951	116.434	117.157	117.944
60.0	105.784	105.731	105.688	105.635	105.388	105.118	105.191	104.594	105.281	105.954
62.5	94.221	94.004	93.825	93.639	93.366	93.236	93.680	93.370	94.148	94.905
65.0	81.758	81.551	81.379	81.070	80.262	79.361	78.688	78.001	79.365	80.685
67.5	68.203	67.426	66.778	66.249	65.864	65.662	66.086	65.839	66.754	67.705
70.0	53.223	51.810	50.566	49.563	48.608	47.518	46.648	46.332	48.104	49.818
72.5	37.365	35.166	32.855	31.281	30.481	29.671	29.030	29.782	32.177	34.440
75.0	25.601	23.826	22.041	20.918	20.212	19.433	18.701	19.351	21.332	23.327
77.5	15.639	14.319	12.836	12.026	11.585	11.099	10.631	11.083	12.230	13.485
80.0	7.344	6.954	6.450	6.154	5.930	5.668	5.404	5.403	5.647	5.988
82.5	2.430	2.370	2.281	2.156	1.995	1.797	1.568	1.692	1.874	2.027
85.0	0.864	0.849	0.830	0.820	0.808	0.794	0.779	0.801	0.826	0.848
87.5	0.434	0.440	0.444	0.447	0.446	0.440	0.431	0.433	0.435	0.437
90.0	0.257	0.257	0.257	0.270	0.282	0.292	0.301	0.308	0.313	0.314
92.5	0.240	0.243	0.247	0.274	0.299	0.323	0.343	0.330	0.319	0.308
95.0	0.242	0.241	0.242	0.264	0.289	0.317	0.344	0.342	0.340	0.336
97.5	0.289	0.295	0.304	0.316	0.328	0.337	0.344	0.344	0.344	0.344
100.0	0.301	0.301	0.308	0.331	0.353	0.373	0.386	0.383	0.380	0.377
102.5	0.311	0.313	0.322	0.347	0.376	0.407	0.429	0.426	0.423	0.420
105.0	0.333	0.339	0.350	0.362	0.373	0.382	0.392	0.404	0.415	0.424
107.5	0.354	0.356	0.367	0.387	0.406	0.423	0.429	0.427	0.427	0.428
110.0	0.377	0.383	0.405	0.437	0.470	0.502	0.508	0.492	0.478	0.466
112.5	0.386	0.386	0.408	0.440	0.473	0.505	0.515	0.514	0.511	0.506

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CANDELA TABULATION - (Cont.)

115.0	0.403	0.400	0.421	0.451	0.480	0.509	0.523	0.532	0.540	0.546
117.5	0.441	0.442	0.465	0.493	0.522	0.553	0.557	0.556	0.556	0.558
120.0	0.477	0.485	0.503	0.521	0.540	0.556	0.558	0.558	0.558	0.558
122.5	0.541	0.542	0.555	0.569	0.585	0.601	0.599	0.596	0.593	0.590
125.0	0.666	0.655	0.654	0.653	0.651	0.645	0.654	0.660	0.664	0.666
127.5	0.882	0.867	0.860	0.851	0.840	0.818	0.821	0.820	0.819	0.819
130.0	1.241	1.223	1.211	1.200	1.189	1.163	1.157	1.144	1.131	1.122
132.5	1.802	1.781	1.765	1.739	1.704	1.636	1.623	1.601	1.579	1.561
135.0	2.589	2.597	2.629	2.655	2.674	2.632	2.598	2.548	2.496	2.437
137.5	3.686	3.694	3.725	3.752	3.778	3.725	3.700	3.662	3.622	3.571
140.0	5.276	5.258	5.256	5.266	5.290	5.234	5.177	5.115	5.054	4.991
142.5	7.401	7.237	7.085	6.943	6.822	6.802	6.824	6.833	6.826	6.742
145.0	10.271	9.928	9.619	9.343	9.147	9.075	9.017	8.965	8.905	8.808
147.5	13.830	13.143	12.510	11.931	11.599	11.459	11.351	11.248	11.159	11.078
150.0	18.279	17.079	15.953	14.901	14.542	14.389	14.275	14.156	14.003	13.845
152.5	23.908	22.300	20.652	19.073	18.363	18.321	18.150	17.975	17.694	17.422
155.0	30.615	29.517	28.259	27.121	26.091	25.592	24.978	24.472	24.080	23.671
157.5	37.574	37.525	37.413	36.755	36.008	35.156	34.276	33.477	32.738	32.047
160.0	43.992	44.382	44.295	43.627	42.947	42.204	41.533	40.968	40.392	39.806
162.5	49.620	50.245	49.686	49.005	48.513	47.852	47.346	46.858	46.383	45.921
165.0	54.024	53.602	53.181	52.760	52.208	51.689	51.197	50.730	50.287	49.876
167.5	55.282	55.006	54.724	54.386	54.011	53.635	53.261	52.886	52.563	52.255
170.0	54.685	54.780	54.514	54.247	53.987	53.734	53.434	53.137	52.865	52.618
172.5	50.664	50.607	50.560	50.375	50.199	50.040	49.897	49.767	49.694	49.631
175.0	43.563	43.694	43.866	44.008	44.122	44.209	44.270	44.316	44.333	44.349
177.5	40.441	40.409	40.370	40.327	40.279	40.226	40.167	40.104	40.036	39.967
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

Vert. Angles **Horizontal Angles**

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5616.263	5615.540	5615.126	5615.027	5615.254	5615.816	5616.723	5617.988	5619.620	5621.635
5.0	5312.660	5317.678	5327.168	5340.602	5354.738	5378.718	5378.788	5384.395	5385.944	5384.461
7.5	4931.144	4932.928	4943.859	4936.988	4934.885	4920.879	4888.857	4858.651	4830.224	4810.215
10.0	4347.689	4313.640	4293.441	4269.735	4244.297	4216.967	4217.748	4234.212	4250.739	4267.231
12.5	3702.115	3664.109	3627.223	3591.390	3589.294	3605.259	3621.028	3636.500	3649.971	3662.102
15.0	3026.547	2993.989	2959.885	2972.603	2987.401	3001.609	3016.052	3027.772	3039.311	3049.643
17.5	2453.608	2433.707	2431.969	2434.018	2436.950	2440.695	2451.948	2462.576	2472.048	2478.646
20.0	1946.765	1943.681	1945.426	1945.969	1945.232	1951.207	1960.847	1969.382	1976.748	1978.626
22.5	1528.436	1531.409	1533.265	1533.941	1535.061	1543.799	1551.617	1558.463	1564.503	1570.651
25.0	1197.421	1200.377	1202.373	1203.359	1207.978	1215.014	1221.300	1226.797	1229.247	1229.209
27.5	936.852	939.498	941.407	942.542	948.542	954.243	959.322	963.912	969.695	974.887
30.0	734.971	736.868	738.241	740.849	747.985	754.144	759.311	762.906	765.286	767.747
32.5	578.213	579.871	581.063	584.389	590.302	596.432	602.752	606.433	607.640	607.921
35.0	460.013	461.347	462.311	464.470	466.995	469.331	471.461	474.080	476.593	478.841
37.5	373.994	376.113	377.739	378.020	378.269	378.557	378.955	380.617	382.188	383.602
40.0	308.570	310.984	312.974	312.525	311.884	311.046	310.367	311.126	311.762	312.270
42.5	259.585	261.657	263.121	263.036	262.658	261.986	261.161	260.579	260.080	259.655
45.0	228.853	230.596	231.853	232.390	232.625	232.562	231.000	228.095	225.266	222.507
47.5	195.392	197.884	200.030	201.923	203.874	205.878	205.789	204.084	202.122	199.902
50.0	169.943	171.319	172.268	172.978	173.660	174.314	173.617	172.270	170.772	169.125
52.5	151.291	152.565	153.069	153.366	153.660	153.948	153.107	152.037	150.974	149.914
55.0	133.665	135.055	135.869	136.511	137.048	137.481	136.277	134.907	133.488	132.030
57.5	118.777	119.652	120.302	120.963	121.636	122.326	121.360	120.313	119.143	117.856
60.0	106.615	107.245	107.687	108.106	108.501	108.719	107.780	106.923	106.144	105.158

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CANDELA TABULATION - (Cont.)

62.5	95.640	96.323	96.841	97.332	97.794	97.760	95.898	94.154	92.522	90.812
65.0	81.959	83.138	84.127	85.072	85.971	85.934	83.582	81.212	78.824	76.515
67.5	68.689	69.677	70.625	71.575	72.525	72.284	69.900	67.498	65.079	62.815
70.0	51.474	53.162	54.883	56.489	57.981	57.978	56.035	53.939	51.694	49.773
72.5	36.569	38.197	39.478	40.841	42.286	42.651	41.788	40.760	39.570	38.107
75.0	25.333	26.625	27.373	28.126	28.885	28.904	28.406	27.939	27.498	26.643
77.5	14.845	15.783	16.450	17.121	17.796	17.707	17.135	16.480	15.744	14.913
80.0	6.424	6.849	7.244	7.639	8.032	8.045	7.830	7.525	7.131	6.770
82.5	2.153	2.265	2.363	2.445	2.510	2.504	2.454	2.370	2.254	2.181
85.0	0.867	0.879	0.886	0.889	0.886	0.881	0.874	0.865	0.854	0.851
87.5	0.440	0.448	0.456	0.462	0.465	0.466	0.462	0.453	0.440	0.439
90.0	0.313	0.319	0.322	0.323	0.320	0.313	0.308	0.304	0.301	0.301
92.5	0.301	0.305	0.310	0.317	0.324	0.320	0.315	0.308	0.301	0.303
95.0	0.332	0.329	0.326	0.323	0.320	0.317	0.314	0.312	0.310	0.317
97.5	0.344	0.344	0.344	0.344	0.344	0.348	0.351	0.352	0.351	0.348
100.0	0.374	0.371	0.369	0.366	0.364	0.368	0.373	0.380	0.385	0.375
102.5	0.414	0.405	0.396	0.390	0.386	0.386	0.386	0.386	0.386	0.386
105.0	0.428	0.424	0.418	0.411	0.405	0.402	0.399	0.397	0.395	0.392
107.5	0.429	0.429	0.429	0.429	0.432	0.435	0.437	0.438	0.437	0.435
110.0	0.459	0.456	0.454	0.451	0.454	0.462	0.470	0.477	0.480	0.478
112.5	0.502	0.500	0.497	0.494	0.498	0.505	0.513	0.521	0.523	0.521
115.0	0.545	0.542	0.539	0.537	0.541	0.549	0.556	0.565	0.565	0.561
117.5	0.558	0.558	0.558	0.558	0.563	0.570	0.578	0.588	0.588	0.583
120.0	0.565	0.571	0.575	0.578	0.577	0.574	0.571	0.568	0.574	0.582
122.5	0.598	0.606	0.613	0.621	0.619	0.616	0.613	0.611	0.618	0.625
125.0	0.663	0.663	0.663	0.665	0.666	0.667	0.666	0.663	0.670	0.676
127.5	0.821	0.821	0.818	0.811	0.796	0.785	0.776	0.769	0.780	0.791
130.0	1.119	1.117	1.115	1.110	1.090	1.066	1.038	1.010	1.000	0.993
132.5	1.551	1.540	1.529	1.521	1.516	1.509	1.502	1.490	1.462	1.433
135.0	2.375	2.316	2.261	2.229	2.215	2.196	2.174	2.141	2.096	2.052
137.5	3.511	3.448	3.382	3.347	3.333	3.322	3.313	3.285	3.234	3.183
140.0	4.926	4.862	4.797	4.761	4.731	4.700	4.668	4.615	4.550	4.488
142.5	6.658	6.577	6.496	6.462	6.430	6.398	6.368	6.299	6.220	6.143
145.0	8.710	8.613	8.523	8.474	8.427	8.382	8.340	8.248	8.160	8.077
147.5	10.993	10.906	10.817	10.732	10.657	10.590	10.526	10.425	10.322	10.218
150.0	13.696	13.556	13.408	13.255	13.108	12.969	12.851	12.762	12.676	12.595
152.5	17.161	16.909	16.663	16.424	16.192	15.967	15.791	15.645	15.503	15.368
155.0	23.247	22.779	22.216	21.677	21.160	20.667	20.305	19.956	19.613	19.280
157.5	31.406	30.802	30.194	29.579	28.957	28.365	27.869	27.418	27.011	26.649
160.0	39.208	38.613	38.058	37.542	37.065	36.510	35.945	35.395	34.861	34.413
162.5	45.353	44.765	44.188	43.624	43.064	42.509	41.975	41.461	40.967	40.514
165.0	49.465	49.048	48.624	48.179	47.671	47.164	46.657	46.150	45.801	45.540
167.5	51.959	51.672	51.368	51.014	50.668	50.330	49.999	49.703	49.371	49.166
170.0	52.396	52.159	51.934	51.718	51.511	51.322	51.124	50.948	50.793	50.504
172.5	49.571	49.516	49.463	49.399	49.318	49.226	49.124	49.021	48.776	48.535
175.0	44.352	44.345	44.326	44.296	44.259	44.220	44.192	44.155	44.108	44.051
177.5	40.027	40.096	40.156	40.208	40.250	40.284	40.309	40.326	40.335	40.335
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

**Vert.
Angles**

Horizontal Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5624.047	5626.871	5630.126	5633.831	5638.009	5642.684	5647.884	5654.372	5653.717	5652.344
5.0	5383.929	5384.351	5385.730	5383.004	5365.044	5347.014	5328.745	5310.029	5315.710	5330.348
7.5	4823.757	4836.270	4847.613	4854.361	4853.473	4849.836	4843.560	4856.249	4865.959	4876.018

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CANDELA TABULATION - (Cont.)

10.0	4280.352	4292.142	4303.280	4311.186	4310.051	4318.781	4301.305	4327.649	4355.294	4382.153
12.5	3673.261	3682.354	3679.978	3676.067	3687.669	3685.889	3713.092	3739.341	3753.712	3747.725
15.0	3055.397	3052.147	3047.146	3040.293	3056.204	3081.329	3105.319	3120.850	3122.039	3121.163
17.5	2475.855	2471.330	2464.997	2487.556	2491.473	2512.366	2530.999	2532.908	2532.956	2531.073
20.0	1976.899	1972.315	1967.789	1985.020	1995.272	2011.768	2019.332	2019.950	2018.846	2016.056
22.5	1576.783	1582.832	1586.850	1588.655	1590.189	1592.652	1593.473	1592.927	1590.913	1587.274
25.0	1227.314	1223.555	1228.555	1234.568	1244.201	1249.905	1250.276	1249.394	1247.240	1242.602
27.5	979.463	981.867	980.066	978.251	978.017	978.398	978.385	977.388	975.396	970.048
30.0	770.257	770.435	773.878	766.727	765.892	765.975	765.609	764.475	762.098	756.921
32.5	607.274	605.612	606.888	601.848	600.780	600.975	600.556	599.520	597.950	595.702
35.0	480.813	478.865	478.578	474.724	473.692	473.948	473.709	472.975	472.348	471.834
37.5	384.403	382.719	381.991	379.328	378.646	378.819	378.623	378.059	377.857	377.717
40.0	312.111	310.535	309.251	307.252	307.107	307.785	308.130	308.148	308.333	308.420
42.5	259.451	259.254	259.158	258.606	258.331	258.000	257.568	257.030	257.526	258.015
45.0	221.219	221.193	221.665	222.274	224.155	226.068	227.569	228.678	228.894	228.986
47.5	197.768	195.444	192.870	190.216	190.783	191.961	193.211	194.533	196.175	197.642
50.0	168.241	167.490	166.677	166.066	167.209	168.331	169.316	170.198	171.240	172.239
52.5	149.429	148.952	148.422	147.884	149.098	150.249	151.347	152.215	152.319	152.470
55.0	131.440	130.878	130.344	130.107	131.406	132.658	133.862	134.793	134.981	135.075
57.5	116.624	115.522	114.538	114.074	115.615	117.086	118.487	119.505	119.798	120.047
60.0	102.865	100.540	98.201	97.248	99.699	102.023	104.226	105.628	105.853	106.048
62.5	88.566	86.271	83.930	83.069	85.201	87.334	89.467	91.258	92.502	93.596
65.0	74.389	72.240	70.067	69.475	71.299	73.123	74.943	77.148	79.653	82.027
67.5	60.716	58.490	56.185	56.082	58.370	60.574	62.696	64.671	66.631	68.656
70.0	48.353	47.421	45.505	45.231	46.206	47.296	48.492	49.969	51.571	53.152
72.5	36.459	35.137	33.006	33.139	34.485	35.752	36.943	38.043	39.122	40.203
75.0	25.449	24.590	22.827	22.722	23.394	24.117	24.882	25.424	25.894	26.401
77.5	13.975	13.177	11.884	11.965	12.475	12.973	13.456	13.883	14.244	14.547
80.0	6.376	6.037	5.430	5.307	5.300	5.311	5.336	5.583	5.875	6.153
82.5	2.107	2.051	1.959	1.984	1.989	1.963	1.908	1.966	2.042	2.111
85.0	0.848	0.852	0.846	0.871	0.884	0.887	0.879	0.892	0.908	0.923
87.5	0.439	0.441	0.440	0.458	0.474	0.487	0.497	0.493	0.487	0.482
90.0	0.301	0.301	0.304	0.311	0.317	0.324	0.330	0.330	0.328	0.323
92.5	0.303	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301
95.0	0.325	0.334	0.342	0.340	0.338	0.336	0.333	0.324	0.315	0.307
97.5	0.345	0.344	0.344	0.344	0.344	0.344	0.344	0.341	0.336	0.332
100.0	0.364	0.352	0.345	0.355	0.364	0.371	0.375	0.366	0.357	0.350
102.5	0.386	0.386	0.385	0.384	0.384	0.385	0.386	0.383	0.379	0.374
105.0	0.389	0.386	0.386	0.386	0.386	0.386	0.388	0.396	0.402	0.408
107.5	0.432	0.429	0.427	0.426	0.423	0.421	0.423	0.431	0.440	0.449
110.0	0.476	0.473	0.471	0.468	0.467	0.464	0.463	0.464	0.467	0.470
112.5	0.518	0.515	0.509	0.498	0.487	0.478	0.476	0.483	0.490	0.496
115.0	0.559	0.558	0.556	0.553	0.548	0.543	0.536	0.528	0.522	0.517
117.5	0.574	0.562	0.558	0.558	0.558	0.558	0.557	0.554	0.550	0.545
120.0	0.590	0.597	0.599	0.597	0.594	0.593	0.591	0.589	0.587	0.585
122.5	0.634	0.641	0.634	0.623	0.613	0.604	0.606	0.613	0.619	0.625
125.0	0.682	0.685	0.692	0.698	0.701	0.703	0.695	0.686	0.678	0.673
127.5	0.802	0.814	0.810	0.804	0.801	0.798	0.793	0.786	0.779	0.771
130.0	0.988	0.987	0.988	0.988	0.987	0.986	0.972	0.956	0.941	0.927
132.5	1.403	1.374	1.374	1.373	1.372	1.372	1.352	1.331	1.310	1.289
135.0	2.011	1.977	1.976	1.975	1.973	1.973	1.952	1.932	1.913	1.895
137.5	3.133	3.093	3.075	3.058	3.043	3.026	2.986	2.948	2.913	2.880
140.0	4.428	4.384	4.368	4.353	4.339	4.321	4.281	4.243	4.207	4.174
142.5	5.998	6.018	5.994	5.972	5.952	5.923	5.870	5.822	5.778	5.737
145.0	7.932	7.918	7.844	7.777	7.718	7.673	7.639	7.607	7.577	7.546
147.5	10.045	10.021	9.943	9.868	9.796	9.745	9.711	9.680	9.653	9.623

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CANDELA TABULATION - (Cont.)

150.0	12.453	12.401	12.301	12.207	12.117	12.028	11.946	11.874	11.811	11.767
152.5	15.160	15.073	14.949	14.831	14.720	14.639	14.562	14.487	14.414	14.339
155.0	18.837	18.662	18.465	18.278	18.097	17.909	17.738	17.584	17.444	17.361
157.5	26.133	25.665	25.215	24.788	24.377	23.978	23.598	23.239	22.900	22.763
160.0	34.094	33.710	33.329	32.951	32.462	31.965	31.490	31.036	30.626	30.349
162.5	40.356	40.030	39.721	39.388	38.945	38.519	38.109	37.716	37.413	37.189
165.0	45.339	45.087	44.844	44.415	43.965	43.531	43.115	42.715	42.484	42.274
167.5	48.833	48.521	48.133	47.704	47.286	46.880	46.486	46.163	45.894	45.637
170.0	50.216	49.837	49.451	49.074	48.704	48.342	48.010	47.707	47.413	47.128
172.5	48.294	48.051	47.809	47.565	47.328	47.138	46.944	46.745	46.541	46.333
175.0	43.984	43.910	43.832	43.750	43.663	43.571	43.474	43.373	43.299	43.288
177.5	40.328	40.328	40.371	40.410	40.446	40.479	40.508	40.534	40.557	40.576
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

Vert. Angles **Horizontal Angles**

	150.0	152.5	155.0	157.5	160.0	162.5	165.0	167.5	170.0	172.5
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5651.570	5651.418	5651.917	5650.696	5642.664	5634.870	5627.375	5623.299	5628.061	5633.640
5.0	5349.796	5350.965	5339.334	5328.840	5329.619	5340.044	5356.631	5379.558	5359.018	5361.618
7.5	4903.658	4931.028	4937.564	4909.000	4877.996	4899.987	4920.368	4926.211	4926.454	4931.151
10.0	4363.374	4337.841	4313.744	4334.846	4354.105	4368.385	4375.903	4380.671	4383.743	4384.279
12.5	3737.695	3729.600	3733.957	3738.004	3744.242	3753.752	3760.785	3764.014	3763.425	3760.115
15.0	3118.491	3116.511	3112.458	3106.234	3115.720	3123.250	3128.428	3128.199	3125.306	3119.899
17.5	2528.373	2524.191	2517.970	2517.210	2524.317	2529.435	2533.636	2538.770	2541.210	2542.564
20.0	2012.026	2006.252	1998.701	2001.255	2005.609	2008.283	2014.971	2026.273	2035.928	2042.535
22.5	1582.024	1575.296	1567.625	1570.997	1573.045	1573.741	1579.204	1586.525	1592.532	1596.149
25.0	1236.412	1229.045	1223.345	1224.708	1225.009	1224.232	1227.763	1231.583	1234.392	1235.872
27.5	963.711	956.394	952.125	952.150	951.346	949.701	951.499	952.819	953.331	953.410
30.0	750.957	744.206	741.001	740.138	738.628	736.704	737.384	737.552	737.089	736.438
32.5	592.539	588.495	584.917	581.500	577.788	574.502	576.053	577.017	577.425	576.846
35.0	470.845	469.385	466.045	461.954	457.405	453.751	455.136	456.291	457.186	457.340
37.5	377.220	376.368	373.702	370.580	367.115	364.273	363.742	362.950	361.899	361.861
40.0	308.252	307.890	305.755	303.448	300.888	298.880	298.285	297.504	296.538	296.297
42.5	258.291	258.192	256.466	254.576	252.524	250.962	250.295	249.490	248.548	248.205
45.0	228.993	228.855	228.260	227.432	226.396	224.190	220.782	217.508	214.323	213.256
47.5	198.940	199.925	200.378	200.803	201.187	199.694	196.000	192.043	187.859	186.459
50.0	173.193	173.584	172.763	171.907	171.012	169.698	167.972	166.168	164.287	163.593
52.5	152.657	152.613	152.045	151.370	150.594	149.452	148.018	146.509	144.928	144.475
55.0	135.078	134.808	134.232	133.626	132.986	132.212	131.303	130.319	129.268	128.981
57.5	120.254	119.997	119.222	118.413	117.565	117.001	116.570	116.085	115.548	115.379
60.0	106.212	106.053	105.553	104.976	104.328	103.945	103.679	103.372	103.023	103.060
62.5	94.549	94.862	94.708	94.505	94.258	93.983	93.694	93.386	93.055	93.181
65.0	84.276	85.132	85.104	85.053	84.978	84.332	83.491	82.655	81.812	81.709
67.5	70.736	71.273	70.949	70.628	70.300	69.602	68.704	67.721	66.658	66.265
70.0	54.707	55.260	55.249	55.118	54.878	54.205	53.416	52.606	51.773	51.710
72.5	41.282	41.320	41.012	40.751	40.524	39.392	38.033	36.653	35.242	35.380
75.0	26.936	26.925	26.640	26.251	25.766	24.334	22.663	20.930	19.141	19.134
77.5	14.795	14.590	14.288	13.991	13.693	13.086	12.355	11.554	10.692	10.737
80.0	6.416	6.311	6.073	5.771	5.412	5.241	5.077	4.893	4.691	4.727
82.5	2.173	2.211	2.233	2.243	2.241	2.199	2.146	2.084	2.015	2.025
85.0	0.936	0.966	0.997	1.026	1.053	1.043	1.028	1.010	0.991	0.996
87.5	0.477	0.492	0.508	0.522	0.538	0.536	0.531	0.525	0.517	0.520
90.0	0.317	0.313	0.308	0.304	0.301	0.303	0.304	0.306	0.307	0.308
92.5	0.301	0.296	0.291	0.285	0.279	0.278	0.277	0.276	0.276	0.275
95.0	0.301	0.307	0.313	0.317	0.322	0.316	0.310	0.306	0.301	0.301

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CANDELA TABULATION - (Cont.)

97.5	0.327	0.324	0.322	0.322	0.322	0.317	0.312	0.307	0.301	0.306
100.0	0.343	0.339	0.333	0.328	0.322	0.321	0.320	0.320	0.319	0.325
102.5	0.370	0.369	0.367	0.366	0.365	0.364	0.363	0.363	0.362	0.361
105.0	0.411	0.404	0.397	0.391	0.387	0.392	0.396	0.401	0.404	0.399
107.5	0.453	0.441	0.429	0.417	0.408	0.413	0.418	0.424	0.429	0.427
110.0	0.471	0.467	0.462	0.456	0.451	0.449	0.449	0.448	0.448	0.454
112.5	0.499	0.497	0.496	0.495	0.494	0.493	0.492	0.491	0.491	0.490
115.0	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515
117.5	0.544	0.548	0.552	0.556	0.556	0.550	0.543	0.538	0.534	0.533
120.0	0.588	0.597	0.607	0.616	0.619	0.607	0.597	0.585	0.577	0.581
122.5	0.626	0.624	0.622	0.622	0.622	0.623	0.622	0.621	0.620	0.626
125.0	0.668	0.662	0.656	0.648	0.647	0.656	0.664	0.673	0.679	0.674
127.5	0.769	0.770	0.772	0.773	0.774	0.776	0.778	0.782	0.783	0.776
130.0	0.930	0.940	0.950	0.961	0.964	0.960	0.956	0.952	0.950	0.947
132.5	1.282	1.282	1.283	1.287	1.287	1.282	1.279	1.276	1.272	1.263
135.0	1.871	1.849	1.829	1.812	1.808	1.815	1.822	1.831	1.833	1.816
137.5	2.844	2.809	2.775	2.743	2.734	2.743	2.754	2.769	2.773	2.746
140.0	4.138	4.106	4.076	4.050	4.050	4.066	4.085	4.107	4.114	4.085
142.5	5.691	5.649	5.611	5.577	5.579	5.599	5.622	5.650	5.659	5.633
145.0	7.498	7.455	7.416	7.382	7.371	7.372	7.380	7.394	7.397	7.379
147.5	9.570	9.522	9.480	9.444	9.385	9.329	9.282	9.242	9.230	9.254
150.0	11.746	11.727	11.710	11.697	11.624	11.551	11.482	11.418	11.404	11.447
152.5	14.269	14.210	14.163	14.124	14.072	14.026	13.986	13.953	13.943	13.957
155.0	17.301	17.243	17.188	17.134	17.066	17.007	16.957	16.916	16.882	16.857
157.5	22.655	22.561	22.480	22.379	22.217	22.075	21.952	21.847	21.735	21.628
160.0	30.104	29.889	29.705	29.526	29.341	29.174	29.026	28.896	28.824	28.781
162.5	36.973	36.768	36.572	36.399	36.245	36.107	35.984	35.876	35.861	35.876
165.0	42.082	41.908	41.750	41.636	41.533	41.440	41.357	41.286	41.185	41.096
167.5	45.394	45.162	44.927	44.691	44.472	44.269	44.080	43.912	43.782	43.655
170.0	46.852	46.574	46.210	45.852	45.497	45.146	44.798	44.590	44.487	44.383
172.5	46.118	45.881	45.637	45.385	45.127	44.864	44.620	44.589	44.556	44.522
175.0	43.266	43.232	43.189	43.135	43.073	43.020	43.049	43.073	43.092	43.105
177.5	40.593	40.607	40.629	40.663	40.696	40.726	40.754	40.781	40.805	40.828
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

**Vert.
Angles**

Horizontal Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5633.746	5626.980	5621.005	5627.946	5635.681	5637.282	5634.010	5631.546	5637.072	5645.720
5.0	5368.850	5372.137	5378.808	5390.602	5385.924	5396.140	5387.047	5389.778	5406.285	5416.201
7.5	4934.833	4946.919	4957.308	4979.270	4993.052	4968.788	4954.157	4986.546	5008.049	4991.135
10.0	4391.457	4409.013	4423.537	4439.855	4453.106	4446.977	4426.525	4410.287	4436.944	4460.552
12.5	3774.905	3794.302	3810.850	3823.182	3832.609	3833.901	3817.817	3799.143	3800.159	3821.447
15.0	3139.784	3158.491	3174.635	3183.755	3190.245	3193.474	3181.580	3167.278	3152.990	3171.585
17.5	2553.728	2563.129	2570.536	2577.274	2581.767	2584.002	2576.827	2566.662	2554.452	2562.604
20.0	2042.779	2041.199	2037.795	2042.768	2045.905	2047.191	2047.724	2047.217	2045.579	2047.865
22.5	1596.142	1594.686	1591.783	1595.488	1597.743	1598.542	1604.775	1612.752	1619.216	1621.845
25.0	1235.814	1234.631	1232.328	1235.315	1237.183	1237.928	1242.840	1250.037	1256.046	1259.756
27.5	953.113	951.973	949.986	952.519	954.200	955.026	960.363	969.469	977.905	984.981
30.0	735.582	734.091	731.961	734.139	735.673	736.562	741.324	749.951	757.622	764.262
32.5	575.453	573.633	571.383	571.886	571.922	571.454	573.010	577.229	580.924	584.084
35.0	456.790	455.839	454.513	453.191	451.527	449.529	449.665	453.036	456.018	458.605
37.5	362.333	362.563	362.546	361.996	361.202	360.173	360.381	362.800	364.927	366.751
40.0	296.347	296.219	295.910	296.055	296.024	295.825	296.177	297.727	299.075	300.214
42.5	248.065	247.794	247.393	248.051	248.582	248.989	249.584	250.725	251.730	252.595

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CANDELA TABULATION - (Cont.)

45.0	212.952	212.556	212.066	215.718	219.341	223.005	225.855	226.433	226.926	227.319
47.5	186.032	185.525	184.939	190.504	195.935	201.181	204.756	204.175	203.496	202.731
50.0	163.232	162.801	162.304	164.528	166.682	168.767	170.441	170.992	171.486	171.928
52.5	144.302	144.074	143.791	145.661	147.474	149.225	150.691	151.329	151.900	152.401
55.0	128.864	128.707	128.506	129.944	131.333	132.672	133.830	134.445	135.019	135.556
57.5	115.258	115.090	114.878	116.042	117.163	118.239	119.268	120.268	121.245	122.202
60.0	103.149	103.204	103.225	104.207	105.155	106.070	107.007	108.177	109.299	110.371
62.5	93.364	93.516	93.642	94.640	95.613	96.559	97.487	98.420	99.323	100.197
65.0	81.696	81.643	81.543	83.242	84.901	86.537	88.091	89.170	90.233	91.287
67.5	65.920	65.521	65.073	67.143	69.153	71.086	72.881	74.271	75.609	76.898
70.0	51.704	51.655	51.565	52.604	53.605	54.566	55.560	57.101	58.592	60.030
72.5	35.624	35.801	35.911	36.696	37.410	38.051	38.740	40.543	42.324	44.094
75.0	19.267	19.372	19.449	20.037	20.596	21.127	21.746	23.560	25.272	26.865
77.5	10.831	10.901	10.948	11.386	11.796	12.175	12.547	13.255	13.943	14.614
80.0	4.768	4.799	4.817	4.992	5.155	5.306	5.468	6.014	6.519	6.976
82.5	2.036	2.042	2.044	2.139	2.230	2.314	2.390	2.439	2.478	2.507
85.0	1.001	1.004	1.005	1.032	1.057	1.080	1.100	1.091	1.081	1.068
87.5	0.522	0.523	0.524	0.536	0.547	0.558	0.566	0.565	0.564	0.562
90.0	0.308	0.309	0.309	0.309	0.308	0.308	0.307	0.312	0.316	0.320
92.5	0.275	0.275	0.275	0.275	0.275	0.275	0.276	0.272	0.267	0.263
95.0	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.295	0.289	0.284
97.5	0.310	0.314	0.318	0.314	0.310	0.306	0.301	0.301	0.301	0.301
100.0	0.331	0.337	0.344	0.337	0.331	0.325	0.319	0.320	0.320	0.321
102.5	0.361	0.361	0.361	0.361	0.361	0.361	0.362	0.367	0.372	0.379
105.0	0.395	0.391	0.386	0.386	0.386	0.386	0.386	0.392	0.398	0.402
107.5	0.425	0.423	0.421	0.417	0.413	0.409	0.405	0.405	0.406	0.407
110.0	0.460	0.466	0.473	0.466	0.460	0.454	0.448	0.448	0.449	0.449
112.5	0.490	0.490	0.490	0.490	0.490	0.490	0.491	0.491	0.492	0.493
115.0	0.515	0.515	0.515	0.520	0.524	0.528	0.533	0.530	0.526	0.521
117.5	0.533	0.533	0.533	0.543	0.553	0.564	0.575	0.568	0.558	0.549
120.0	0.584	0.588	0.593	0.594	0.597	0.599	0.601	0.600	0.599	0.599
122.5	0.631	0.638	0.644	0.634	0.623	0.613	0.603	0.609	0.620	0.630
125.0	0.670	0.665	0.661	0.655	0.649	0.644	0.638	0.640	0.641	0.643
127.5	0.769	0.762	0.756	0.752	0.748	0.745	0.742	0.738	0.735	0.732
130.0	0.946	0.945	0.945	0.939	0.934	0.930	0.926	0.924	0.924	0.924
132.5	1.256	1.250	1.245	1.250	1.256	1.263	1.272	1.271	1.269	1.267
135.0	1.802	1.789	1.777	1.780	1.785	1.792	1.799	1.803	1.807	1.814
137.5	2.723	2.703	2.688	2.668	2.650	2.637	2.625	2.645	2.681	2.721
140.0	4.059	4.037	4.019	3.985	3.956	3.931	3.909	3.936	3.984	4.037
142.5	5.611	5.594	5.582	5.555	5.532	5.514	5.502	5.522	5.562	5.608
145.0	7.365	7.355	7.350	7.332	7.318	7.310	7.307	7.322	7.348	7.378
147.5	9.282	9.314	9.351	9.337	9.329	9.326	9.329	9.333	9.341	9.355
150.0	11.497	11.555	11.618	11.574	11.534	11.501	11.473	11.476	11.510	11.551
152.5	13.978	14.006	14.040	13.990	13.948	13.914	13.888	13.900	13.953	14.012
155.0	16.842	16.836	16.839	16.851	16.871	16.902	16.941	16.985	17.030	17.084
157.5	21.540	21.469	21.416	21.508	21.618	21.747	21.896	22.034	22.133	22.249
160.0	28.755	28.746	28.758	28.890	29.042	29.215	29.408	29.596	29.728	29.883
162.5	35.909	35.958	36.022	36.084	36.160	36.248	36.348	36.466	36.643	36.836
165.0	41.018	40.951	40.891	41.003	41.126	41.261	41.411	41.578	41.794	42.022
167.5	43.530	43.408	43.287	43.673	44.062	44.458	44.862	45.275	45.557	45.803
170.0	44.280	44.178	44.077	44.562	45.048	45.535	46.021	46.508	46.920	47.238
172.5	44.487	44.450	44.412	44.689	44.962	45.233	45.497	45.754	46.003	46.254
175.0	43.114	43.117	43.115	43.187	43.254	43.316	43.373	43.424	43.470	43.509
177.5	40.848	40.866	40.883	40.896	40.907	40.916	40.923	40.927	40.929	40.928
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5654.681	5663.890	5667.140	5668.891	5671.214	5674.073	5677.438	5679.723	5676.865	5674.607
5.0	5420.317	5432.249	5453.219	5475.563	5484.139	5470.840	5463.852	5461.061	5461.541	5462.399
7.5	4972.783	4977.791	4981.695	4994.990	5013.416	5030.853	5029.920	5027.866	5020.893	5025.865
10.0	4469.224	4468.751	4468.307	4463.926	4456.171	4448.223	4465.974	4482.392	4497.384	4516.425
12.5	3839.828	3852.371	3860.854	3867.105	3859.904	3846.067	3830.644	3844.546	3877.583	3910.956
15.0	3187.412	3199.887	3210.420	3217.967	3223.203	3213.273	3199.794	3184.584	3187.907	3198.988
17.5	2575.655	2586.265	2595.323	2602.694	2607.752	2607.063	2596.358	2583.926	2569.856	2576.370
20.0	2052.457	2054.359	2055.625	2062.033	2066.420	2068.806	2061.483	2051.195	2039.266	2033.581
22.5	1618.482	1613.685	1607.479	1612.236	1615.880	1617.863	1618.633	1619.072	1619.144	1618.954
25.0	1257.648	1254.440	1250.148	1251.846	1254.718	1256.265	1258.790	1267.824	1276.264	1284.173
27.5	981.148	976.155	969.954	968.651	971.094	972.549	972.950	976.161	977.298	976.405
30.0	760.447	755.923	751.102	749.405	751.957	753.779	754.876	755.348	755.000	753.798
32.5	584.345	583.766	582.682	582.322	584.532	586.125	587.097	587.410	587.100	586.193
35.0	459.996	460.917	461.600	462.103	462.350	461.952	460.883	460.091	459.743	458.914
37.5	368.389	369.735	370.728	371.247	369.855	368.144	366.114	364.637	364.314	363.647
40.0	301.023	301.539	301.811	301.835	300.103	298.063	295.744	293.813	293.588	293.111
42.5	252.927	252.846	252.588	252.147	250.857	249.403	247.872	246.426	245.659	244.613
45.0	227.399	227.244	227.007	226.682	226.786	226.998	227.221	227.378	226.091	224.592
47.5	201.703	200.389	198.957	197.409	195.785	193.949	191.860	189.513	187.987	186.595
50.0	171.937	171.492	171.024	170.540	169.120	167.215	165.217	163.124	162.914	162.877
52.5	152.783	153.072	153.353	153.633	152.496	150.522	148.513	146.470	146.314	146.560
55.0	136.015	136.336	136.563	136.690	135.921	134.591	133.297	132.048	132.118	132.605
57.5	122.777	122.683	122.543	122.357	121.563	120.197	118.733	117.167	117.113	117.783
60.0	111.014	110.865	110.687	110.480	109.465	107.571	105.612	103.587	103.559	104.786
62.5	100.668	100.227	99.715	99.126	97.684	95.182	92.596	89.920	89.776	91.674
65.0	91.769	90.713	89.603	88.438	86.465	83.281	80.012	76.653	75.824	77.460
67.5	77.591	76.570	75.550	74.541	72.844	69.889	66.973	64.105	63.357	65.100
70.0	60.916	59.932	58.846	57.647	56.259	54.732	53.300	51.979	51.848	53.294
72.5	45.384	44.650	43.960	43.328	42.640	41.596	40.482	39.292	38.880	39.983
75.0	28.148	28.489	28.813	29.127	29.234	28.734	28.298	27.937	28.111	29.333
77.5	15.271	15.913	16.508	17.055	17.409	17.140	16.798	16.379	16.227	17.012
80.0	7.365	7.601	7.787	7.923	7.967	7.808	7.660	7.526	7.570	8.196
82.5	2.529	2.592	2.640	2.673	2.706	2.835	2.945	3.036	3.137	3.339
85.0	1.056	1.077	1.094	1.107	1.121	1.178	1.220	1.248	1.261	1.267
87.5	0.560	0.567	0.572	0.577	0.580	0.591	0.600	0.607	0.613	0.607
90.0	0.322	0.325	0.325	0.325	0.323	0.325	0.324	0.321	0.316	0.314
92.5	0.257	0.263	0.269	0.276	0.284	0.285	0.287	0.289	0.291	0.286
95.0	0.279	0.285	0.291	0.296	0.301	0.307	0.315	0.324	0.333	0.326
97.5	0.301	0.301	0.301	0.301	0.301	0.310	0.321	0.332	0.342	0.334
100.0	0.322	0.318	0.313	0.308	0.301	0.310	0.321	0.331	0.342	0.342
102.5	0.385	0.379	0.370	0.363	0.355	0.360	0.366	0.371	0.376	0.379
105.0	0.407	0.407	0.408	0.409	0.412	0.408	0.402	0.396	0.388	0.386
107.5	0.408	0.413	0.418	0.424	0.428	0.426	0.423	0.421	0.420	0.421
110.0	0.451	0.447	0.442	0.437	0.431	0.434	0.442	0.450	0.459	0.459
112.5	0.494	0.491	0.487	0.484	0.483	0.483	0.481	0.479	0.475	0.477
115.0	0.517	0.515	0.515	0.515	0.515	0.517	0.522	0.528	0.536	0.539
117.5	0.539	0.537	0.539	0.540	0.541	0.545	0.550	0.554	0.557	0.557
120.0	0.600	0.599	0.595	0.591	0.587	0.585	0.587	0.589	0.591	0.589
122.5	0.640	0.640	0.636	0.632	0.629	0.625	0.619	0.613	0.606	0.600
125.0	0.644	0.647	0.653	0.659	0.667	0.670	0.668	0.668	0.668	0.668
127.5	0.731	0.735	0.745	0.754	0.762	0.769	0.774	0.779	0.785	0.788
130.0	0.924	0.924	0.924	0.924	0.923	0.927	0.941	0.956	0.972	0.986

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CANDELA TABULATION - (Cont.)

132.5	1.267	1.268	1.271	1.274	1.279	1.287	1.301	1.314	1.327	1.339
135.0	1.821	1.829	1.836	1.844	1.855	1.868	1.888	1.912	1.937	1.964
137.5	2.767	2.800	2.813	2.828	2.844	2.863	2.879	2.895	2.911	2.926
140.0	4.091	4.129	4.135	4.144	4.157	4.173	4.182	4.195	4.211	4.230
142.5	5.659	5.700	5.710	5.725	5.743	5.765	5.781	5.799	5.821	5.846
145.0	7.411	7.444	7.476	7.514	7.561	7.615	7.639	7.664	7.692	7.725
147.5	9.374	9.406	9.477	9.554	9.638	9.727	9.773	9.808	9.848	9.894
150.0	11.600	11.658	11.736	11.820	11.910	12.005	12.071	12.123	12.183	12.249
152.5	14.077	14.147	14.247	14.356	14.474	14.600	14.700	14.767	14.841	14.919
155.0	17.147	17.219	17.370	17.544	17.731	17.931	18.108	18.221	18.344	18.476
157.5	22.383	22.534	22.746	22.991	23.249	23.518	23.804	24.178	24.586	25.025
160.0	30.060	30.260	30.501	30.780	31.085	31.413	31.767	32.259	32.797	33.355
162.5	37.047	37.277	37.503	37.688	37.881	38.080	38.286	38.643	39.175	39.733
165.0	42.261	42.510	42.770	42.977	43.203	43.451	43.720	44.011	44.500	44.982
167.5	46.062	46.333	46.618	46.901	47.180	47.471	47.773	48.088	48.407	48.720
170.0	47.560	47.885	48.215	48.548	48.856	49.169	49.494	49.829	50.177	50.495
172.5	46.502	46.742	46.975	47.201	47.419	47.752	48.111	48.478	48.852	49.235
175.0	43.581	43.652	43.712	43.760	43.796	43.819	43.827	44.007	44.261	44.503
177.5	40.924	40.918	40.908	40.905	40.907	40.908	40.906	40.904	40.899	40.894
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5672.757	5671.289	5670.179	5669.405	5668.947	5668.789	5668.913	5669.307	5669.958	5670.852
5.0	5463.682	5465.431	5465.312	5465.479	5466.753	5469.110	5472.528	5477.559	5484.026	5493.818
7.5	5028.546	5029.020	5038.817	5056.350	5075.510	5096.352	5098.878	5097.790	5097.029	5096.646
10.0	4509.833	4509.811	4501.404	4490.497	4479.016	4475.777	4506.660	4538.335	4570.900	4590.936
12.5	3944.655	3908.015	3891.730	3876.462	3865.246	3853.418	3840.724	3840.682	3880.882	3920.918
15.0	3205.805	3212.960	3216.546	3218.193	3218.008	3210.398	3198.893	3186.155	3172.290	3214.843
17.5	2582.157	2605.110	2592.967	2595.541	2596.232	2595.122	2586.598	2575.475	2563.046	2552.662
20.0	2037.242	2046.780	2045.048	2047.921	2049.161	2048.705	2045.598	2036.308	2025.709	2013.872
22.5	1613.149	1605.291	1599.712	1597.307	1598.597	1597.369	1593.640	1588.975	1584.773	1580.753
25.0	1282.785	1275.935	1268.679	1260.446	1251.803	1243.035	1234.277	1228.316	1229.456	1229.321
27.5	971.588	962.481	956.325	951.018	949.262	948.543	946.982	944.603	944.530	943.750
30.0	751.214	744.944	745.240	734.939	731.906	731.239	729.973	728.126	726.923	725.727
32.5	584.696	579.213	577.537	569.783	566.105	565.869	565.169	564.018	563.217	563.456
35.0	457.605	453.655	451.478	446.605	443.746	443.991	443.610	442.645	441.583	442.161
37.5	362.636	361.562	362.161	360.759	360.240	358.610	356.802	355.011	353.250	352.392
40.0	292.384	291.261	290.608	289.644	289.329	289.617	289.939	289.976	289.729	289.170
42.5	243.281	242.521	243.613	245.180	246.599	247.023	246.633	245.986	245.081	244.360
45.0	222.870	221.352	220.962	219.375	218.169	216.962	215.662	214.503	213.492	213.207
47.5	185.326	184.403	184.882	186.131	187.470	188.574	189.020	189.390	189.687	189.985
50.0	162.772	162.718	164.568	166.656	168.724	170.447	170.754	170.992	171.162	170.923
52.5	146.782	146.981	149.085	151.227	153.232	154.931	154.852	154.738	154.592	154.189
55.0	133.075	133.529	134.780	136.098	137.457	138.861	139.081	139.307	139.543	139.698
57.5	118.445	119.101	120.743	122.760	124.788	126.813	127.324	127.605	127.806	127.925
60.0	106.030	107.295	109.258	111.487	113.744	116.031	116.478	116.526	116.571	116.612
62.5	93.613	95.599	98.034	100.625	103.374	106.324	107.296	107.559	107.831	108.114
65.0	79.018	80.494	83.650	88.172	92.756	97.367	99.110	99.453	99.815	100.200
67.5	66.824	68.534	71.994	76.786	81.265	85.457	87.075	87.163	87.329	87.579
70.0	54.674	55.982	57.978	61.225	63.138	65.530	67.145	68.160	69.192	70.244
72.5	41.034	42.033	43.394	45.818	47.456	49.426	51.074	52.281	53.308	54.151
75.0	30.532	31.708	33.077	35.164	36.150	37.605	38.549	38.747	38.939	39.127
77.5	17.731	18.382	19.243	21.190	22.431	23.903	24.910	25.116	25.228	25.245

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CANDELA TABULATION - (Cont.)

80.0	8.767	9.282	9.866	11.078	11.796	12.636	13.174	13.140	13.094	13.038
82.5	3.470	3.524	3.568	4.037	4.359	4.704	4.973	5.145	5.262	5.326
85.0	1.248	1.205	1.146	1.196	1.247	1.307	1.365	1.446	1.512	1.561
87.5	0.599	0.587	0.575	0.605	0.620	0.640	0.655	0.669	0.679	0.686
90.0	0.313	0.311	0.308	0.311	0.317	0.323	0.326	0.340	0.352	0.363
92.5	0.279	0.270	0.259	0.257	0.261	0.263	0.266	0.276	0.286	0.294
95.0	0.317	0.308	0.300	0.301	0.301	0.301	0.301	0.301	0.301	0.301
97.5	0.323	0.313	0.302	0.301	0.303	0.303	0.301	0.301	0.301	0.301
100.0	0.341	0.341	0.342	0.335	0.328	0.319	0.311	0.311	0.314	0.317
102.5	0.380	0.383	0.385	0.379	0.369	0.361	0.354	0.354	0.357	0.360
105.0	0.386	0.386	0.386	0.386	0.388	0.388	0.387	0.386	0.386	0.386
107.5	0.423	0.426	0.427	0.423	0.413	0.405	0.398	0.397	0.399	0.402
110.0	0.451	0.443	0.433	0.429	0.434	0.437	0.438	0.440	0.442	0.445
112.5	0.484	0.495	0.507	0.510	0.500	0.492	0.485	0.482	0.481	0.479
115.0	0.534	0.528	0.521	0.515	0.517	0.518	0.517	0.512	0.505	0.499
117.5	0.556	0.556	0.556	0.554	0.546	0.539	0.536	0.535	0.537	0.538
120.0	0.582	0.574	0.565	0.562	0.573	0.582	0.588	0.590	0.583	0.579
122.5	0.599	0.599	0.599	0.599	0.591	0.585	0.581	0.579	0.588	0.595
125.0	0.663	0.657	0.650	0.644	0.651	0.659	0.666	0.673	0.670	0.668
127.5	0.783	0.779	0.776	0.773	0.784	0.794	0.804	0.812	0.813	0.813
130.0	0.986	0.986	0.986	0.987	0.997	1.006	1.015	1.024	1.037	1.052
132.5	1.346	1.354	1.363	1.373	1.384	1.396	1.407	1.418	1.446	1.481
135.0	1.968	1.972	1.975	1.977	2.005	2.038	2.074	2.111	2.167	2.231
137.5	2.965	3.012	3.065	3.122	3.171	3.213	3.256	3.299	3.349	3.404
140.0	4.278	4.334	4.392	4.451	4.507	4.555	4.605	4.657	4.710	4.766
142.5	5.893	5.954	6.016	6.081	6.075	6.208	6.269	6.333	6.395	6.447
145.0	7.788	7.877	7.972	8.073	8.098	8.234	8.300	8.369	8.441	8.476
147.5	9.967	10.081	10.200	10.324	10.383	10.499	10.568	10.650	10.745	10.791
150.0	12.323	12.400	12.478	12.556	12.584	12.803	12.970	13.144	13.323	13.449
152.5	15.004	15.100	15.202	15.311	15.381	15.656	15.902	16.162	16.437	16.690
155.0	18.618	18.771	18.933	19.103	19.247	19.753	20.261	20.772	21.287	21.801
157.5	25.500	25.918	26.280	26.658	27.049	27.543	28.069	28.623	29.205	29.813
160.0	33.935	34.511	35.011	35.539	36.094	36.556	37.014	37.493	37.988	38.499
162.5	40.319	40.933	41.407	41.845	42.300	42.589	43.161	43.609	44.074	44.554
165.0	45.467	45.952	46.421	46.821	47.234	47.599	48.000	48.390	48.811	49.245
167.5	49.037	49.356	49.678	50.024	50.421	50.833	51.123	51.540	51.887	52.235
170.0	50.773	51.061	51.360	51.671	51.990	52.297	52.596	52.797	53.007	53.226
172.5	49.627	49.932	50.234	50.547	50.874	51.214	51.549	51.792	51.807	51.831
175.0	44.734	44.954	45.161	45.357	45.516	45.652	45.781	45.903	46.017	46.125
177.5	40.888	40.880	40.872	40.862	40.879	40.895	40.896	40.884	40.857	40.816
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

**Vert.
Angles**

Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5671.981	5673.334	5674.901	5676.675	5678.647	5680.808	5683.155	5685.677	5688.369	5691.224
5.0	5482.696	5479.643	5477.257	5473.942	5469.767	5466.498	5464.119	5462.620	5461.988	5461.496
7.5	5098.341	5102.075	5110.148	5101.119	5097.823	5092.695	5088.184	5084.440	5081.487	5079.341
10.0	4585.783	4580.752	4575.916	4572.864	4595.675	4574.351	4572.683	4569.980	4565.152	4560.316
12.5	3960.906	3987.627	3991.244	3996.583	4003.685	4004.557	3991.556	3978.780	3966.306	3954.204
15.0	3258.195	3300.449	3339.807	3342.718	3345.050	3346.904	3348.833	3338.446	3327.371	3316.356
17.5	2596.058	2637.347	2676.647	2709.562	2709.674	2708.832	2730.470	2709.509	2702.903	2694.914
20.0	2020.484	2058.187	2093.490	2126.494	2143.830	2141.934	2146.769	2142.118	2141.311	2136.718
22.5	1576.979	1600.651	1626.331	1648.500	1667.243	1667.134	1663.815	1665.294	1666.381	1665.231
25.0	1227.954	1233.792	1250.303	1265.082	1278.188	1283.942	1281.598	1277.543	1273.268	1270.071

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CANDELA TABULATION - (Cont.)

27.5	942.001	939.257	932.103	919.552	901.657	880.498	877.841	890.325	901.600	914.327
30.0	723.822	721.229	723.844	731.573	743.015	758.177	765.860	771.868	764.783	762.191
32.5	563.589	563.636	569.014	578.810	587.084	593.859	594.675	593.927	590.696	589.513
35.0	441.949	440.955	441.670	448.643	455.197	461.349	464.790	463.570	462.349	461.830
37.5	351.307	349.984	349.020	355.536	361.452	366.779	370.980	369.585	369.302	369.009
40.0	288.406	287.455	286.325	290.739	295.438	299.726	303.614	302.682	302.375	301.965
42.5	243.690	242.866	241.891	244.627	248.492	252.072	255.370	255.195	254.577	253.957
45.0	213.594	214.144	214.861	216.636	218.661	220.180	221.197	220.713	219.868	219.098
47.5	190.134	189.943	189.410	189.592	191.010	192.528	194.148	194.584	193.834	193.283
50.0	169.701	168.341	166.842	166.395	168.207	169.935	171.578	172.643	172.861	173.102
52.5	152.726	151.315	149.958	149.214	150.348	151.307	152.095	152.615	152.943	153.402
55.0	138.589	137.392	136.109	134.984	135.653	136.256	136.793	137.272	138.349	138.420
57.5	126.670	125.432	124.245	123.117	123.487	123.759	123.956	124.055	124.955	125.195
60.0	115.879	115.039	114.192	113.339	113.621	114.001	114.385	114.773	115.221	115.093
62.5	107.695	107.119	106.566	106.037	106.107	106.225	106.264	106.227	106.491	106.357
65.0	99.818	99.101	98.347	97.558	97.423	97.556	97.734	97.956	98.446	97.970
67.5	86.690	85.083	83.416	81.691	81.154	81.317	81.576	81.936	83.105	83.786
70.0	69.725	67.947	66.119	64.242	64.072	65.229	66.500	67.886	68.792	67.890
72.5	53.123	50.113	46.838	43.295	41.936	42.904	43.891	44.899	46.251	47.133
75.0	37.810	34.468	31.182	27.955	26.529	27.269	27.816	28.172	28.712	29.412
77.5	24.290	21.790	19.448	17.269	16.136	16.599	17.025	17.415	18.126	19.150
80.0	12.641	11.461	10.370	9.371	8.826	9.168	9.456	9.689	10.104	10.872
82.5	5.237	4.800	4.406	4.056	3.862	4.061	4.223	4.347	4.506	4.837
85.0	1.589	1.579	1.560	1.531	1.511	1.563	1.565	1.515	1.441	1.550
87.5	0.690	0.696	0.700	0.702	0.704	0.720	0.730	0.733	0.733	0.748
90.0	0.371	0.378	0.381	0.379	0.372	0.380	0.386	0.388	0.386	0.388
92.5	0.301	0.301	0.301	0.301	0.301	0.297	0.289	0.276	0.259	0.259
95.0	0.301	0.301	0.301	0.301	0.301	0.299	0.298	0.298	0.301	0.283
97.5	0.301	0.306	0.312	0.320	0.330	0.328	0.321	0.313	0.303	0.292
100.0	0.320	0.326	0.333	0.339	0.343	0.336	0.325	0.314	0.304	0.295
102.5	0.363	0.366	0.368	0.371	0.374	0.370	0.362	0.354	0.347	0.336
105.0	0.386	0.386	0.386	0.386	0.386	0.380	0.370	0.359	0.348	0.340
107.5	0.405	0.408	0.411	0.414	0.417	0.414	0.407	0.399	0.391	0.379
110.0	0.448	0.451	0.454	0.456	0.459	0.451	0.424	0.395	0.363	0.346
112.5	0.476	0.473	0.473	0.473	0.473	0.464	0.441	0.420	0.400	0.388
115.0	0.495	0.494	0.496	0.499	0.502	0.499	0.481	0.462	0.444	0.429
117.5	0.537	0.535	0.532	0.527	0.521	0.513	0.500	0.490	0.480	0.473
120.0	0.578	0.578	0.570	0.562	0.555	0.547	0.539	0.531	0.524	0.515
122.5	0.599	0.600	0.596	0.593	0.591	0.590	0.574	0.556	0.537	0.516
125.0	0.666	0.664	0.666	0.668	0.668	0.667	0.660	0.655	0.651	0.645
127.5	0.813	0.814	0.810	0.804	0.796	0.787	0.805	0.833	0.866	0.897
130.0	1.069	1.088	1.100	1.112	1.125	1.140	1.162	1.183	1.201	1.206
132.5	1.516	1.553	1.575	1.588	1.599	1.607	1.632	1.673	1.718	1.755
135.0	2.294	2.355	2.402	2.435	2.467	2.499	2.519	2.515	2.497	2.456
137.5	3.459	3.515	3.563	3.597	3.631	3.663	3.676	3.637	3.592	3.531
140.0	4.821	4.872	4.918	4.950	4.980	5.008	5.027	5.005	4.983	4.959
142.5	6.500	6.552	6.604	6.687	6.779	6.878	6.986	6.924	6.837	6.735
145.0	8.510	8.540	8.565	8.692	8.842	9.002	9.169	9.194	9.178	9.170
147.5	10.834	10.884	10.942	11.062	11.203	11.331	11.447	11.608	11.847	12.124
150.0	13.546	13.650	13.760	13.877	13.995	14.113	14.232	14.478	15.105	15.784
152.5	16.886	17.087	17.293	17.502	17.708	17.921	18.139	18.362	19.471	20.675
155.0	22.291	22.823	23.398	24.017	24.567	25.101	25.645	26.199	27.098	28.166
157.5	30.522	31.272	32.020	32.763	33.508	34.292	35.125	36.008	36.821	37.042
160.0	39.019	39.526	40.051	40.591	41.147	41.852	42.590	43.338	44.096	44.146
162.5	45.050	45.558	46.088	46.641	47.219	47.823	48.442	49.057	49.667	50.271
165.0	49.691	50.150	50.630	51.118	51.610	52.106	52.595	53.073	53.562	54.061

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CANDELA TABULATION - (Cont.)

167.5	52.590	52.950	53.315	53.662	54.002	54.344	54.690	55.038	55.395	55.757
170.0	53.475	53.736	54.011	54.300	54.603	54.849	55.104	55.368	55.640	55.909
172.5	51.855	51.879	51.930	52.022	52.125	52.238	52.362	52.491	52.536	52.591
175.0	46.215	46.242	46.234	46.212	46.175	46.124	46.057	45.976	45.974	45.965
177.5	40.760	40.690	40.603	40.501	40.383	40.274	40.320	40.378	40.429	40.474
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

**Vert.
Angles**

Horizontal Angles

	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5694.237	5696.558	5695.823	5683.463	5676.778	5670.375	5664.256	5658.424	5652.878	5647.620
5.0	5460.001	5458.497	5457.525	5457.082	5457.162	5457.761	5458.195	5457.730	5450.220	5443.526
7.5	5075.275	5071.741	5068.977	5066.997	5065.811	5063.461	5060.581	5058.719	5057.870	5058.024
10.0	4556.158	4552.722	4549.881	4544.504	4539.858	4536.116	4533.303	4530.392	4527.833	4525.425
12.5	3948.064	3943.170	3938.807	3935.033	3930.818	3924.965	3919.946	3915.804	3912.582	3909.281
15.0	3305.482	3299.115	3295.207	3291.598	3288.361	3284.808	3278.660	3273.037	3268.006	3263.629
17.5	2686.762	2678.527	2675.155	2672.991	2670.819	2668.720	2661.954	2647.374	2631.884	2615.619
20.0	2131.792	2126.606	2121.951	2121.420	2120.621	2119.634	2118.537	2113.003	2107.938	2104.577
22.5	1663.236	1660.812	1658.023	1660.163	1665.971	1672.628	1680.160	1683.955	1678.259	1671.664
25.0	1269.884	1272.154	1276.867	1284.491	1294.364	1303.624	1312.341	1320.581	1314.396	1307.927
27.5	938.782	958.701	975.274	988.618	986.212	978.325	966.768	951.719	933.710	914.565
30.0	761.964	761.920	761.055	759.418	755.996	754.502	756.430	761.684	767.512	770.899
32.5	588.298	587.371	586.618	586.053	589.247	598.503	606.862	614.374	620.058	619.837
35.0	461.852	464.129	466.501	468.979	471.897	476.478	480.287	483.365	485.756	486.030
37.5	368.742	372.516	375.986	379.169	382.081	383.458	384.513	385.338	385.955	385.957
40.0	301.400	303.883	306.589	309.058	311.305	312.251	312.703	312.987	313.117	312.662
42.5	253.228	254.557	256.598	258.487	260.231	260.943	260.987	260.907	260.714	260.048
45.0	218.293	218.931	220.593	222.155	223.622	224.253	224.016	223.698	223.306	222.734
47.5	192.854	193.309	194.688	195.947	197.091	197.610	197.146	196.625	196.051	195.316
50.0	173.325	173.720	174.571	175.507	176.527	177.217	176.653	176.080	175.503	174.774
52.5	153.866	154.511	155.759	156.872	157.855	158.563	158.348	158.261	158.302	158.419
55.0	138.980	139.524	140.190	140.879	141.591	142.268	142.273	142.142	141.913	141.593
57.5	125.703	126.139	126.904	127.608	128.249	128.832	128.695	128.578	128.525	128.535
60.0	115.226	115.342	115.721	116.070	116.355	116.581	116.641	116.671	116.694	116.712
62.5	106.487	106.649	106.774	106.862	106.922	106.958	106.763	106.427	106.009	105.513
65.0	98.065	98.335	98.367	98.356	98.446	98.636	98.047	97.003	95.880	94.686
67.5	84.639	85.339	85.669	85.960	86.382	86.936	85.996	83.985	81.929	79.832
70.0	67.655	67.634	68.320	69.528	70.855	72.303	71.702	69.163	66.566	63.918
72.5	48.197	49.138	50.477	52.468	54.651	57.023	57.217	54.706	52.276	49.926
75.0	30.288	31.185	32.954	35.761	38.325	40.651	41.315	39.770	38.429	37.287
77.5	20.211	21.211	22.376	23.919	25.411	26.853	27.476	26.358	25.162	23.890
80.0	11.603	12.243	12.948	13.950	14.819	15.558	15.747	14.649	13.633	12.699
82.5	5.131	5.367	5.586	5.877	6.061	6.142	6.043	5.572	5.143	4.756
85.0	1.645	1.722	1.774	1.761	1.739	1.708	1.670	1.639	1.594	1.536
87.5	0.760	0.768	0.770	0.756	0.740	0.723	0.706	0.694	0.682	0.672
90.0	0.387	0.385	0.382	0.377	0.371	0.363	0.355	0.349	0.341	0.330
92.5	0.257	0.253	0.246	0.246	0.248	0.252	0.257	0.251	0.244	0.234
95.0	0.263	0.245	0.229	0.235	0.244	0.251	0.257	0.248	0.238	0.227
97.5	0.281	0.270	0.260	0.260	0.265	0.272	0.279	0.281	0.280	0.281
100.0	0.288	0.280	0.272	0.277	0.286	0.294	0.300	0.301	0.301	0.301
102.5	0.326	0.315	0.304	0.301	0.301	0.301	0.301	0.301	0.301	0.301
105.0	0.332	0.325	0.317	0.315	0.318	0.321	0.323	0.326	0.329	0.332
107.5	0.367	0.357	0.348	0.342	0.337	0.331	0.324	0.318	0.315	0.313
110.0	0.349	0.352	0.355	0.354	0.351	0.350	0.349	0.352	0.357	0.363
112.5	0.390	0.390	0.388	0.386	0.386	0.386	0.386	0.386	0.386	0.386

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CANDELA TABULATION - (Cont.)

115.0	0.421	0.413	0.405	0.400	0.403	0.406	0.409	0.411	0.414	0.417
117.5	0.465	0.457	0.449	0.442	0.441	0.438	0.434	0.429	0.429	0.429
120.0	0.504	0.493	0.483	0.472	0.470	0.470	0.474	0.478	0.477	0.474
122.5	0.520	0.520	0.522	0.526	0.536	0.542	0.543	0.540	0.539	0.539
125.0	0.668	0.681	0.691	0.697	0.697	0.698	0.701	0.707	0.711	0.710
127.5	0.914	0.914	0.913	0.912	0.925	0.940	0.953	0.965	0.968	0.971
130.0	1.239	1.255	1.268	1.280	1.297	1.316	1.333	1.348	1.366	1.386
132.5	1.800	1.813	1.825	1.837	1.853	1.870	1.885	1.898	1.915	1.935
135.0	2.477	2.513	2.545	2.574	2.601	2.628	2.653	2.675	2.700	2.728
137.5	3.533	3.574	3.612	3.647	3.686	3.753	3.824	3.900	3.959	3.968
140.0	4.964	5.010	5.060	5.116	5.181	5.281	5.372	5.455	5.523	5.570
142.5	6.670	6.802	6.960	7.127	7.301	7.413	7.508	7.593	7.668	7.743
145.0	9.219	9.425	9.677	9.921	10.157	10.310	10.442	10.582	10.730	10.836
147.5	12.490	12.846	13.137	13.432	13.729	13.987	14.189	14.371	14.533	14.720
150.0	16.586	17.386	17.825	18.268	18.713	19.115	19.377	19.635	19.889	20.201
152.5	21.769	23.388	23.997	24.540	25.090	25.645	26.007	26.357	26.705	27.065
155.0	29.031	30.105	30.773	31.324	31.882	32.447	32.882	33.229	33.575	33.920
157.5	37.086	36.971	36.865	37.391	37.900	38.392	38.852	39.246	39.667	40.112
160.0	43.772	43.279	42.719	42.665	43.028	43.402	43.785	44.270	44.828	45.405
162.5	49.590	48.653	47.823	46.835	46.986	47.312	47.646	47.988	48.425	48.848
165.0	54.485	53.366	52.086	50.789	49.474	49.679	49.969	50.263	50.554	50.865
167.5	56.124	56.497	55.565	54.186	52.779	51.350	50.952	51.129	51.305	51.481
170.0	56.147	56.384	56.621	56.849	55.446	53.892	52.376	50.898	50.451	50.554
172.5	52.658	52.739	52.817	52.799	52.774	52.572	52.336	51.723	50.619	49.641
175.0	45.944	45.910	45.865	45.808	45.694	45.529	45.352	45.165	45.219	45.174
177.5	40.514	40.547	40.574	40.595	40.609	40.618	40.620	40.617	40.607	40.592
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

Vert. Angles **Horizontal Angles**

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5642.646	5637.958	5633.552	5630.089	5628.989	5628.067	5627.323	5626.759	5626.378	5626.181
5.0	5437.430	5431.934	5427.043	5420.187	5409.571	5399.338	5389.506	5380.094	5371.122	5362.605
7.5	5053.380	5042.977	5033.009	5023.859	5015.544	5008.078	5000.386	4986.311	4973.789	4962.772
10.0	4524.125	4520.201	4516.876	4504.823	4492.281	4480.727	4470.189	4460.694	4451.950	4444.211
12.5	3906.240	3910.727	3901.550	3900.167	3890.168	3875.886	3862.689	3850.612	3839.690	3831.563
15.0	3259.999	3257.328	3279.759	3256.158	3258.388	3246.616	3232.631	3219.656	3207.738	3196.919
17.5	2598.713	2601.866	2623.660	2626.926	2640.604	2647.450	2636.070	2626.475	2618.637	2612.525
20.0	2102.910	2103.007	2107.892	2106.025	2108.740	2111.812	2111.152	2110.021	2109.480	2109.586
22.5	1664.279	1656.207	1653.552	1655.765	1658.127	1660.654	1660.664	1657.433	1654.141	1650.884
25.0	1301.829	1296.141	1292.351	1288.682	1288.259	1291.436	1295.295	1288.768	1283.270	1278.784
27.5	894.593	873.901	867.605	907.917	943.058	978.788	1011.608	1011.826	1009.884	1007.470
30.0	775.484	781.226	788.472	800.747	800.058	804.585	809.115	803.463	795.168	787.598
32.5	619.625	619.449	619.334	624.755	624.584	627.777	630.990	629.899	625.977	622.318
35.0	486.165	486.257	486.329	489.672	489.919	492.301	494.711	494.658	491.616	488.800
37.5	385.690	385.292	384.787	386.622	387.315	389.274	391.236	391.922	389.907	388.082
40.0	311.801	310.811	309.709	310.267	311.161	312.745	314.313	315.353	314.353	313.475
42.5	258.908	257.693	256.415	256.168	257.049	258.193	259.250	260.099	259.706	259.405
45.0	221.953	221.186	220.441	220.052	219.820	219.800	219.785	219.779	219.857	220.008
47.5	194.167	192.943	191.652	190.514	190.193	189.992	189.813	189.659	190.090	190.631
50.0	173.085	171.325	169.499	167.662	167.400	167.192	167.007	166.848	167.470	168.286
52.5	156.242	154.070	151.860	149.618	149.221	148.988	148.760	148.539	149.037	149.729
55.0	139.710	137.820	136.008	134.273	133.608	133.098	132.546	131.959	131.910	132.181
57.5	126.788	124.706	122.582	120.421	118.928	117.753	116.657	115.639	115.731	116.470
60.0	114.397	111.327	108.165	104.918	103.394	102.735	102.136	101.598	101.750	102.415

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CANDELA TABULATION - (Cont.)

62.5	102.666	98.756	94.772	90.718	88.927	88.587	88.259	87.946	88.204	89.099
65.0	91.438	86.939	82.398	77.818	75.430	74.973	74.589	74.279	74.981	76.898
67.5	76.446	72.108	67.866	63.720	61.681	61.780	61.914	62.082	62.983	64.867
70.0	60.924	57.722	54.685	51.807	50.738	50.370	50.380	50.315	50.455	51.139
72.5	47.549	45.102	42.737	40.452	39.140	37.912	37.224	36.638	36.621	37.706
75.0	35.840	33.525	31.227	28.948	27.777	27.410	27.370	27.297	27.240	27.282
77.5	22.483	20.989	19.648	18.453	17.859	16.962	16.473	16.026	15.625	15.256
80.0	11.759	10.551	9.346	8.147	7.466	7.255	7.190	7.117	6.998	6.682
82.5	4.370	3.834	3.374	2.991	2.835	2.696	2.617	2.540	2.470	2.439
85.0	1.461	1.337	1.221	1.116	1.073	1.034	1.010	0.988	0.968	0.974
87.5	0.660	0.640	0.620	0.603	0.601	0.573	0.556	0.539	0.523	0.519
90.0	0.317	0.301	0.284	0.266	0.257	0.254	0.252	0.250	0.248	0.254
92.5	0.224	0.221	0.218	0.216	0.215	0.215	0.215	0.215	0.215	0.215
95.0	0.216	0.215	0.215	0.215	0.215	0.218	0.220	0.222	0.224	0.223
97.5	0.284	0.281	0.275	0.269	0.259	0.257	0.255	0.252	0.248	0.242
100.0	0.301	0.293	0.282	0.271	0.260	0.253	0.246	0.240	0.235	0.241
102.5	0.301	0.300	0.299	0.300	0.301	0.301	0.301	0.301	0.301	0.295
105.0	0.335	0.332	0.324	0.315	0.304	0.301	0.301	0.301	0.301	0.301
107.5	0.310	0.307	0.303	0.301	0.301	0.304	0.306	0.308	0.310	0.310
110.0	0.368	0.369	0.364	0.357	0.349	0.344	0.344	0.344	0.344	0.339
112.5	0.386	0.382	0.371	0.360	0.350	0.349	0.350	0.349	0.346	0.344
115.0	0.420	0.422	0.423	0.426	0.429	0.418	0.397	0.378	0.361	0.355
117.5	0.429	0.427	0.417	0.406	0.393	0.392	0.395	0.396	0.397	0.398
120.0	0.470	0.465	0.467	0.470	0.473	0.475	0.470	0.465	0.462	0.462
122.5	0.541	0.544	0.549	0.554	0.558	0.568	0.576	0.582	0.587	0.591
125.0	0.707	0.701	0.711	0.721	0.730	0.741	0.743	0.745	0.747	0.753
127.5	0.975	0.980	0.979	0.974	0.966	0.969	0.990	1.009	1.027	1.042
130.0	1.404	1.422	1.422	1.416	1.409	1.408	1.426	1.443	1.457	1.471
132.5	1.952	1.967	1.978	1.988	1.999	2.020	2.041	2.060	2.077	2.092
135.0	2.753	2.776	2.796	2.813	2.828	2.860	2.901	2.941	2.979	3.014
137.5	3.965	3.950	3.960	4.008	4.055	4.122	4.188	4.252	4.314	4.374
140.0	5.623	5.684	5.743	5.779	5.805	5.851	5.934	6.035	6.122	6.196
142.5	7.805	7.854	7.904	8.018	8.136	8.165	8.435	8.515	8.584	8.643
145.0	10.926	11.009	11.084	11.281	11.475	11.550	11.928	12.048	12.155	12.249
147.5	14.940	15.169	15.408	15.689	15.974	16.122	16.682	16.881	17.062	17.226
150.0	20.617	21.029	21.436	21.864	22.305	22.590	23.255	23.533	23.761	23.971
152.5	27.594	28.119	28.641	29.171	29.727	30.150	30.770	31.115	31.359	31.598
155.0	34.407	34.942	35.474	36.002	36.572	37.079	37.621	38.040	38.363	38.691
157.5	40.606	41.153	41.698	42.242	42.703	43.090	43.401	43.707	44.155	44.590
160.0	46.001	46.450	46.843	47.215	47.569	47.952	48.256	48.533	48.841	49.161
162.5	49.254	49.628	49.939	50.265	50.608	50.946	51.191	51.495	51.746	51.958
165.0	51.175	51.489	51.798	52.089	52.379	52.666	52.933	53.104	53.284	53.470
167.5	51.681	51.892	52.107	52.323	52.481	52.639	52.796	52.994	53.113	53.266
170.0	50.683	50.837	50.957	51.065	51.174	51.288	51.430	51.589	51.708	51.738
172.5	48.797	48.215	48.302	48.385	48.464	48.519	48.547	48.588	48.642	48.824
175.0	45.199	45.206	45.220	45.242	45.273	45.304	45.325	45.379	45.469	45.598
177.5	40.571	40.546	40.515	40.480	40.441	40.398	40.353	40.305	40.256	40.206
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5626.169	5626.346	5626.713	5627.270	5624.671	5617.861	5611.208	5604.719	5598.401	5592.262
5.0	5356.125	5353.768	5352.227	5351.478	5351.504	5352.284	5353.796	5353.327	5340.702	5328.640
7.5	4953.210	4945.053	4938.695	4935.511	4932.844	4930.748	4929.274	4928.472	4926.607	4909.927

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CANDELA TABULATION - (Cont.)

10.0	4437.806	4432.734	4428.991	4425.686	4414.983	4405.445	4397.088	4389.931	4383.989	4370.986
12.5	3825.838	3821.483	3818.510	3816.933	3810.469	3797.784	3786.447	3776.481	3767.905	3759.387
15.0	3191.949	3188.392	3186.128	3185.184	3185.173	3170.467	3157.159	3145.258	3134.788	3125.788
17.5	2605.160	2595.112	2584.768	2574.318	2563.954	2553.151	2543.723	2536.115	2530.270	2526.131
20.0	2106.460	2086.333	2067.921	2051.170	2036.024	2025.022	2017.570	2010.755	2004.679	1999.438
22.5	1647.755	1637.957	1628.747	1620.841	1614.214	1606.334	1593.762	1582.185	1571.614	1562.061
25.0	1275.292	1270.724	1265.484	1260.416	1255.597	1249.957	1238.716	1228.268	1218.622	1209.789
27.5	1004.682	998.711	990.559	983.226	976.699	970.949	961.188	952.226	943.924	936.283
30.0	780.733	774.715	769.244	763.887	758.690	753.697	746.023	738.638	731.775	725.432
32.5	618.936	614.731	607.193	600.038	593.274	586.899	581.949	577.713	573.982	570.729
35.0	486.219	483.421	477.504	471.901	466.615	461.643	457.952	454.759	451.768	449.003
37.5	386.450	384.989	381.328	378.040	375.090	372.463	369.277	365.935	362.802	359.874
40.0	312.723	312.102	310.717	309.413	308.263	307.267	305.146	302.454	299.937	297.591
42.5	259.201	259.095	258.336	257.547	256.864	256.289	254.809	252.714	250.742	248.894
45.0	220.236	220.544	220.193	219.706	219.297	218.968	217.868	216.094	214.408	212.810
47.5	191.230	191.889	191.810	191.452	191.142	190.884	189.691	187.471	185.280	183.128
50.0	169.149	170.060	169.869	169.040	168.194	167.341	165.917	163.855	161.900	160.045
52.5	150.395	151.043	150.522	149.264	148.092	147.002	145.803	144.381	143.006	141.679
55.0	132.532	132.961	132.686	131.768	130.873	130.001	128.848	127.183	125.549	123.947
57.5	117.234	118.023	117.811	116.516	115.231	113.960	112.575	110.976	109.442	107.970
60.0	103.102	103.814	103.653	102.406	101.238	100.143	99.083	97.991	96.941	95.929
62.5	90.113	91.241	91.718	91.077	90.469	89.896	89.250	88.346	87.468	86.617
65.0	78.886	80.944	82.110	81.526	80.967	80.434	79.696	78.212	76.716	75.220
67.5	66.647	68.333	69.177	68.304	67.474	66.689	65.752	64.139	62.615	61.172
70.0	51.902	52.739	53.289	52.939	52.683	52.512	52.203	50.942	49.687	48.443
72.5	38.732	39.705	40.372	40.105	39.800	39.466	38.857	36.836	34.842	32.879
75.0	27.304	27.309	27.144	26.345	25.615	24.952	24.195	22.439	20.752	19.125
77.5	14.889	14.528	14.161	13.738	13.337	12.959	12.546	11.674	10.867	10.117
80.0	6.393	6.131	5.891	5.622	5.369	5.131	4.907	4.677	4.465	4.271
82.5	2.411	2.386	2.357	2.253	2.162	2.081	2.010	1.953	1.901	1.856
85.0	0.978	0.983	0.987	0.981	0.975	0.969	0.964	0.949	0.936	0.926
87.5	0.516	0.513	0.511	0.495	0.480	0.464	0.449	0.446	0.445	0.445
90.0	0.259	0.263	0.267	0.254	0.241	0.228	0.215	0.223	0.232	0.241
92.5	0.215	0.215	0.215	0.209	0.203	0.198	0.194	0.199	0.204	0.210
95.0	0.222	0.219	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
97.5	0.237	0.233	0.231	0.232	0.234	0.235	0.236	0.237	0.238	0.238
100.0	0.248	0.254	0.257	0.257	0.257	0.257	0.257	0.257	0.257	0.257
102.5	0.288	0.281	0.275	0.275	0.277	0.278	0.279	0.280	0.281	0.282
105.0	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301
107.5	0.308	0.306	0.302	0.301	0.301	0.301	0.301	0.306	0.311	0.318
110.0	0.332	0.325	0.319	0.319	0.320	0.321	0.322	0.328	0.333	0.338
112.5	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344
115.0	0.357	0.358	0.360	0.361	0.363	0.364	0.365	0.366	0.367	0.367
117.5	0.399	0.401	0.402	0.404	0.405	0.407	0.408	0.405	0.399	0.393
120.0	0.468	0.473	0.478	0.480	0.479	0.477	0.474	0.467	0.458	0.448
122.5	0.597	0.602	0.607	0.606	0.599	0.591	0.584	0.575	0.567	0.558
125.0	0.764	0.774	0.783	0.786	0.778	0.769	0.758	0.753	0.753	0.751
127.5	1.059	1.074	1.089	1.094	1.085	1.073	1.061	1.064	1.078	1.091
130.0	1.498	1.526	1.552	1.568	1.560	1.550	1.537	1.536	1.547	1.554
132.5	2.129	2.161	2.189	2.206	2.205	2.202	2.199	2.203	2.214	2.223
135.0	3.039	3.059	3.074	3.089	3.121	3.150	3.176	3.202	3.227	3.248
137.5	4.402	4.419	4.429	4.439	4.493	4.542	4.587	4.622	4.643	4.660
140.0	6.247	6.292	6.336	6.380	6.461	6.534	6.600	6.651	6.678	6.698
142.5	8.756	8.899	9.034	9.160	9.249	9.323	9.384	9.443	9.525	9.600
145.0	12.401	12.615	12.820	13.015	13.123	13.202	13.265	13.338	13.492	13.631
147.5	17.429	17.715	17.975	18.210	18.408	18.589	18.759	18.925	19.141	19.336

IES ROAD REPORT
PHOTOMETRIC FILENAME : ALS MD S UV 850.IES

CANDELA TABULATION - (Cont.)

150.0	24.183	24.460	24.717	24.953	25.241	25.558	25.853	26.122	26.391	26.631
152.5	31.831	32.166	32.496	32.818	33.111	33.348	33.546	33.707	33.955	34.187
155.0	39.022	39.377	39.709	40.010	40.256	40.418	40.577	40.730	40.946	41.158
157.5	45.012	45.316	45.498	45.670	45.834	46.116	46.381	46.628	46.810	46.946
160.0	49.467	49.743	49.910	50.078	50.245	50.450	50.657	50.853	50.995	51.078
162.5	52.172	52.389	52.591	52.780	52.961	53.135	53.305	53.469	53.612	53.704
165.0	53.661	53.857	54.046	54.153	54.261	54.370	54.490	54.608	54.725	54.807
167.5	53.419	53.580	53.749	53.890	53.954	54.024	54.096	54.162	54.235	54.319
170.0	51.775	51.823	51.921	52.027	52.125	52.114	52.110	52.159	52.295	52.458
172.5	48.860	48.932	48.909	48.905	48.924	48.983	49.086	49.037	49.011	49.157
175.0	45.538	45.381	45.186	45.017	44.963	44.906	44.833	44.748	44.724	44.771
177.5	40.178	40.362	40.451	40.533	40.609	40.668	40.687	40.694	40.688	40.695
180.0	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825	39.825

Vert. Horizontal Angles

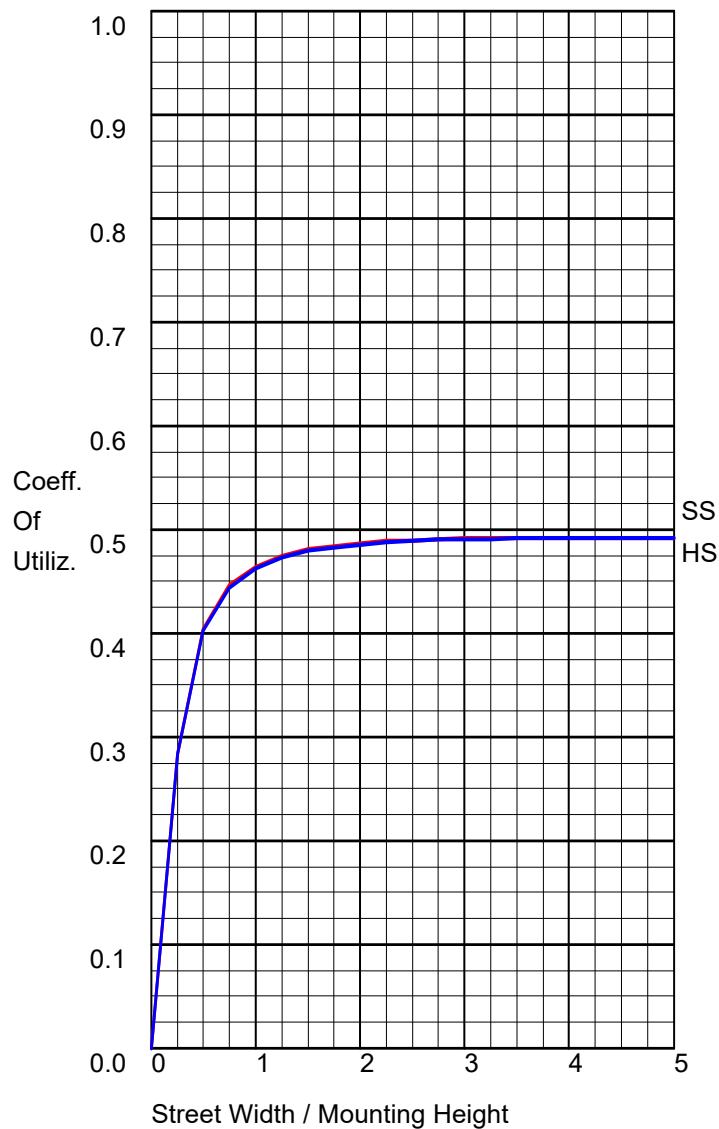
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	5679.566	5679.566	5679.566	5679.566	5679.566
2.5	5586.310	5580.550	5574.990	5569.638	5564.499
5.0	5317.147	5306.232	5295.899	5286.155	5277.005
7.5	4894.209	4879.459	4865.678	4852.871	4841.040
10.0	4352.917	4336.151	4320.683	4306.506	4293.615
12.5	3748.300	3738.914	3731.133	3724.860	3719.999
15.0	3121.633	3118.953	3117.812	3118.200	3120.108
17.5	2523.708	2522.744	2523.215	2525.122	2528.459
20.0	1997.604	1997.791	1999.225	2001.911	2005.851
22.5	1559.076	1559.965	1561.888	1564.850	1568.856
25.0	1206.647	1207.763	1209.705	1212.481	1216.099
27.5	933.204	934.307	936.043	938.422	941.451
30.0	722.496	723.291	724.582	726.378	728.689
32.5	568.525	567.449	566.677	566.237	566.162
35.0	446.975	446.061	445.503	445.282	445.376
37.5	357.850	357.279	356.872	356.647	356.621
40.0	295.685	294.517	293.513	292.669	291.986
42.5	247.398	246.575	245.873	245.290	244.826
45.0	211.533	210.976	210.511	210.136	209.851
47.5	181.555	181.702	181.945	182.278	182.690
50.0	158.711	158.935	159.201	159.514	159.882
52.5	140.620	140.467	140.364	140.312	140.313
55.0	122.619	122.371	122.174	122.029	121.936
57.5	106.736	106.446	106.195	105.986	105.819
60.0	95.026	94.549	94.096	93.669	93.273
62.5	85.813	85.167	84.546	83.950	83.381
65.0	73.804	72.955	72.146	71.379	70.654
67.5	59.866	59.162	58.503	57.887	57.310
70.0	47.267	46.636	46.037	45.473	44.945
72.5	31.051	30.418	29.846	29.334	28.878
75.0	17.629	17.251	16.900	16.577	16.281
77.5	9.437	9.140	8.867	8.617	8.389
80.0	4.099	3.978	3.874	3.782	3.701
82.5	1.816	1.803	1.794	1.788	1.786
85.0	0.917	0.910	0.905	0.902	0.902
87.5	0.446	0.443	0.440	0.439	0.438
90.0	0.251	0.250	0.250	0.249	0.249
92.5	0.215	0.215	0.215	0.215	0.215
95.0	0.215	0.215	0.215	0.215	0.215

IES ROAD REPORT
PHOTOMETRIC FILENAME : ALS MD S UV 850.IES

CANDELA TABULATION - (Cont.)

97.5	0.239	0.240	0.240	0.240	0.240
100.0	0.257	0.257	0.257	0.257	0.257
102.5	0.282	0.283	0.283	0.284	0.284
105.0	0.301	0.301	0.301	0.301	0.301
107.5	0.325	0.320	0.314	0.307	0.301
110.0	0.343	0.339	0.335	0.331	0.326
112.5	0.344	0.350	0.356	0.363	0.369
115.0	0.368	0.373	0.377	0.382	0.386
117.5	0.388	0.392	0.399	0.405	0.412
120.0	0.438	0.446	0.458	0.470	0.481
122.5	0.549	0.562	0.581	0.600	0.618
125.0	0.750	0.765	0.783	0.799	0.816
127.5	1.104	1.114	1.122	1.128	1.134
130.0	1.560	1.560	1.557	1.552	1.545
132.5	2.230	2.230	2.225	2.217	2.207
135.0	3.266	3.272	3.270	3.264	3.254
137.5	4.670	4.689	4.711	4.728	4.740
140.0	6.711	6.751	6.801	6.844	6.878
142.5	9.666	9.739	9.810	9.869	9.918
145.0	13.755	13.869	13.970	14.056	14.126
147.5	19.511	19.600	19.613	19.603	19.570
150.0	26.845	26.924	26.870	26.788	26.680
152.5	34.394	34.480	34.427	34.349	34.245
155.0	41.346	41.443	41.412	41.357	41.278
157.5	47.062	47.144	47.181	47.201	47.203
160.0	51.150	51.214	51.278	51.329	51.368
162.5	53.790	53.865	53.897	53.920	53.935
165.0	54.886	54.964	54.971	54.974	54.974
167.5	54.417	54.524	54.518	54.474	54.433
170.0	52.538	52.612	52.639	52.603	52.578
172.5	49.352	49.348	49.311	49.392	49.513
175.0	44.945	44.981	44.985	44.934	45.049
177.5	40.760	40.810	40.885	40.996	41.090
180.0	39.825	39.825	39.825	39.825	39.825

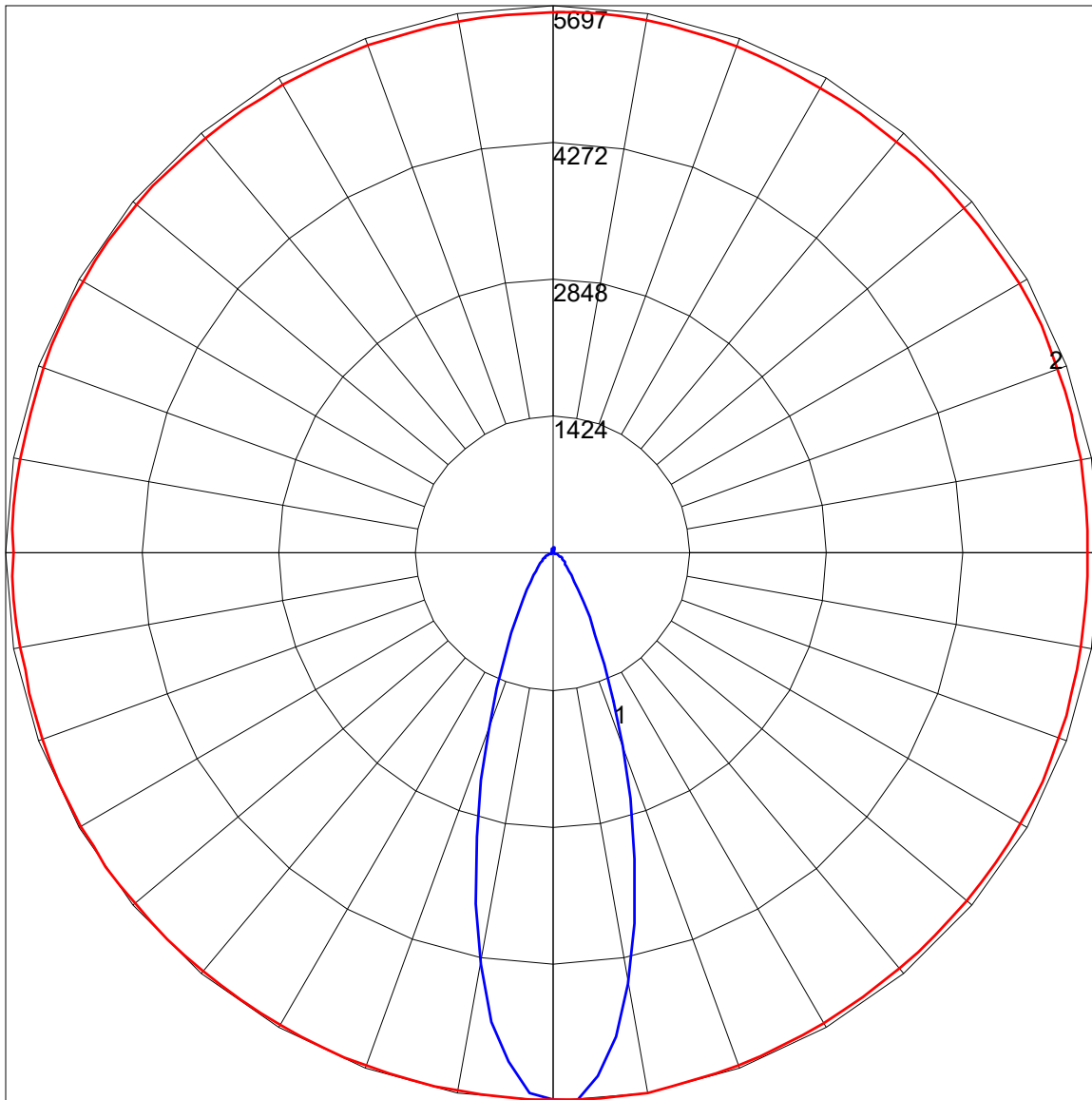
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

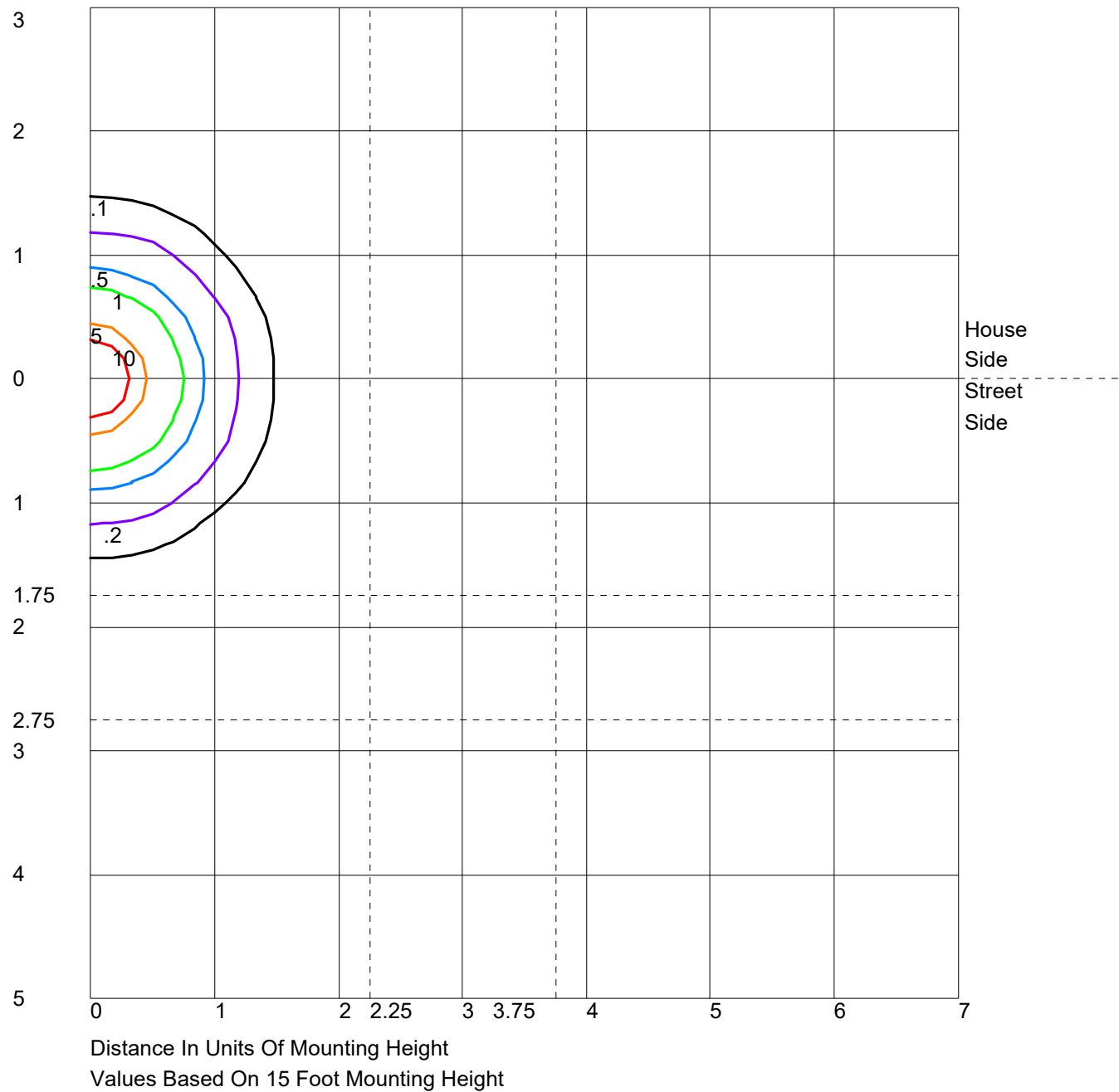
	Lumens	Percent Of Luminaire
Downward Street Side	1320.9	49.3
Downward House Side	1319.9	49.2
Downward Total	2640.8	98.5
Upward Street Side	23.6	0.9
Upward House Side	17.4	0.6
Upward Total	41.0	1.5
Total Flux	2681.8	100.0

POLAR GRAPH

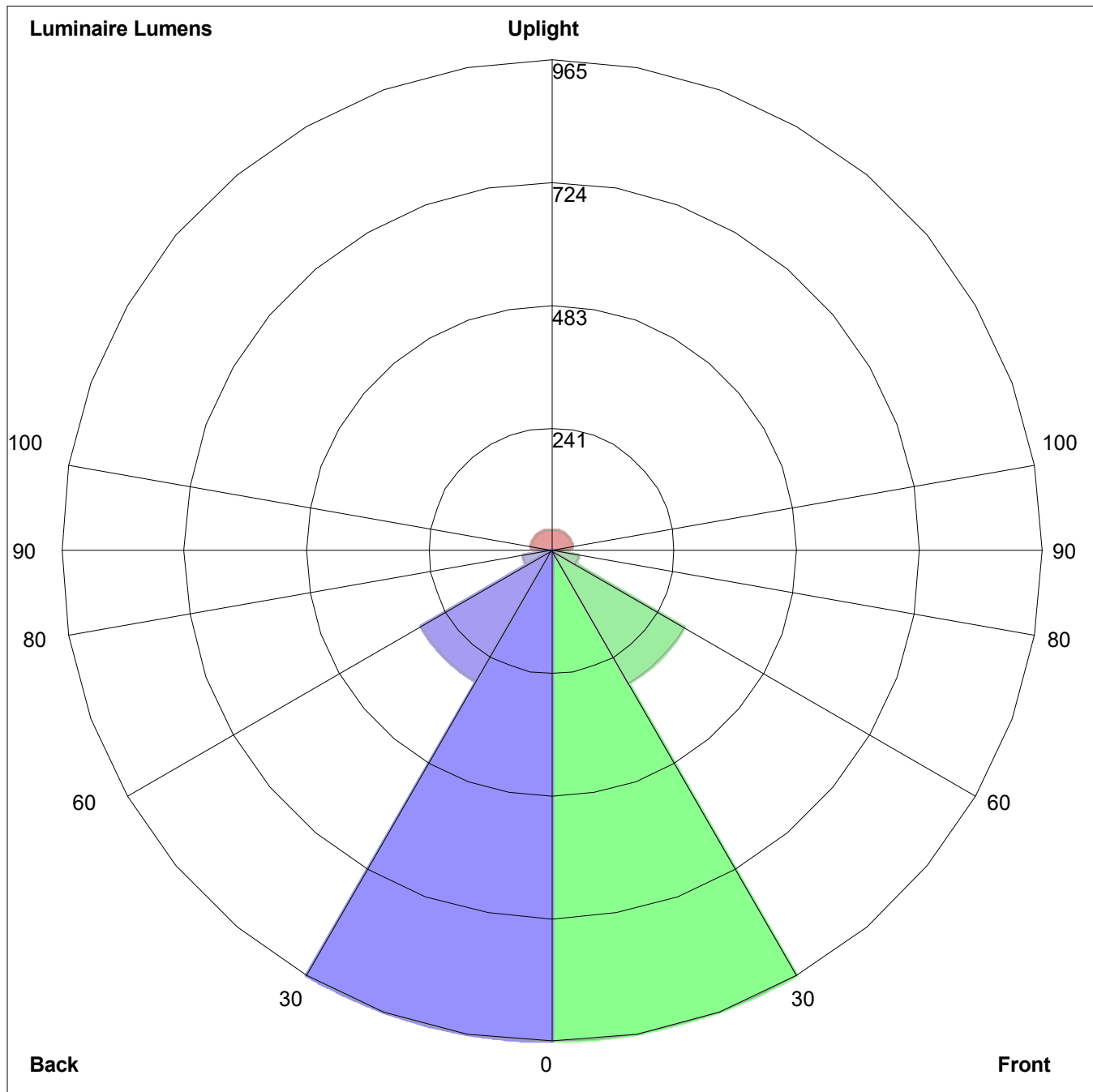


Maximum Candela = 5696.558 Located At Horizontal Angle = 277.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (277.5 - 97.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=965.1, Medium=301.3, High=53.5, Very High=1.1
Back: Low=965.4, Medium=296.8, High=56.6, Very High=1.1
Uplight: Low=0.3, High=40.7

BUG Rating : B2-U2-G0