



IES ROAD REPORT

PHOTOMETRIC FILENAME : ALS HI S UV 850.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2017011601
[TESTLAB] QSSI
[ISSUE DATE] 01/16/2017
[MANUFAC] LumenFocus, LLC.
[LUMCAT] ALS HI S UV 850
[LUMINAIRE] ALS, ONE 37W 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	4512
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	42.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Maximum Candela	9583.712
Maximum Candela Angle	277.5H 2.5V
Maximum Candela (<90 Degrees Vertical)	9583.712
Maximum Candela Angle (<90 Degrees Vertical)	277.5H 2.5V
Maximum Candela At 90 Degrees Vertical	.652 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	26.492 (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)	1623.7	N.A.	36.0
FM - Front-Medium (30-60)	506.9	N.A.	11.2
FH - Front-High (60-80)	89.9	N.A.	2.0
FVH - Front-Very High (80-90)	1.8	N.A.	0.0
BL - Back-Low (0-30)	1624.1	N.A.	36.0
BM - Back-Medium (30-60)	499.3	N.A.	11.1
BH - Back-High (60-80)	95.2	N.A.	2.1
BVH - Back-Very High (80-90)	1.9	N.A.	0.0
UL - Uplight-Low (90-100)	0.5	N.A.	0.0
UH - Uplight-High (100-180)	68.5	N.A.	1.5
Total	4511.8	N.A.	100.0
BUG Rating	B3-U3-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9361.540	9367.500	9373.826	9380.511	9387.552	9394.940	9402.671	9410.737	9419.133	9427.852
5.0	8877.868	8881.661	8886.511	8892.466	8899.573	8907.879	8917.429	8928.269	8924.217	8917.694
7.5	8144.415	8142.309	8141.871	8143.121	8146.080	8150.767	8157.200	8155.106	8153.442	8153.352
10.0	7223.444	7228.444	7235.498	7244.507	7255.373	7267.992	7270.498	7259.795	7251.529	7245.788
12.5	6258.411	6256.788	6257.525	6260.771	6266.673	6275.378	6264.938	6249.779	6236.883	6226.203
15.0	5249.172	5238.207	5229.776	5223.871	5220.489	5219.616	5205.926	5194.103	5184.509	5177.079
17.5	4253.801	4243.323	4235.226	4229.492	4226.097	4223.607	4213.774	4206.032	4200.309	4196.534
20.0	3374.581	3366.036	3359.578	3355.180	3352.814	3350.772	3345.500	3342.012	3340.238	3340.106
22.5	2639.394	2633.827	2629.992	2627.855	2627.381	2627.123	2625.670	2625.699	2627.150	2629.964
25.0	2045.927	2043.867	2043.203	2043.906	2045.938	2050.270	2057.070	2064.721	2073.099	2082.083
27.5	1583.867	1584.710	1586.636	1589.622	1593.643	1599.155	1606.411	1615.003	1624.986	1636.412
30.0	1225.924	1228.328	1231.602	1235.735	1240.717	1246.974	1254.266	1262.079	1270.335	1278.961
32.5	952.493	955.154	958.476	962.460	967.106	974.748	984.795	995.512	1006.897	1017.925
35.0	749.287	753.593	758.368	763.589	769.230	775.229	781.744	788.864	796.619	804.233
37.5	599.968	604.611	609.629	615.034	620.836	625.510	629.730	634.321	639.277	644.111
40.0	491.228	494.675	498.397	502.402	506.700	510.357	513.858	517.645	521.720	525.354
42.5	411.887	414.422	417.159	420.106	423.269	426.115	428.948	431.990	435.241	437.756
45.0	353.046	354.908	356.922	359.095	361.429	363.705	366.060	368.574	371.249	372.921
47.5	307.352	308.681	310.134	311.714	313.425	315.482	317.725	320.079	322.542	323.975
50.0	268.981	269.783	270.695	271.719	272.862	274.696	276.814	279.053	281.417	283.241
52.5	236.058	236.624	237.280	238.025	238.858	240.260	241.884	243.611	245.443	247.101
55.0	205.142	205.942	206.830	207.800	208.850	210.320	211.939	213.627	215.380	216.645
57.5	178.026	178.534	179.120	179.791	180.552	182.309	184.316	186.385	188.510	189.760
60.0	156.919	157.121	157.378	157.689	158.056	159.421	161.034	162.736	164.533	165.279
62.5	140.277	140.474	140.715	141.001	141.331	142.171	143.137	144.160	145.243	144.642
65.0	118.866	119.489	120.181	120.936	121.748	123.436	125.252	127.066	128.863	127.311
67.5	96.417	97.056	97.760	98.531	99.374	101.031	102.884	104.856	106.960	105.775
70.0	75.614	76.794	78.027	79.301	80.606	81.262	81.922	82.664	83.494	82.257
72.5	48.584	50.334	52.175	54.107	56.126	57.723	59.302	60.886	62.456	61.601
75.0	27.391	28.927	30.511	32.147	33.836	35.205	36.647	38.204	39.888	39.579
77.5	14.114	14.784	15.500	16.275	17.119	17.478	17.875	18.345	18.891	18.877
80.0	6.227	6.252	6.295	6.358	6.442	6.406	6.380	6.370	6.376	6.596
82.5	3.005	2.951	2.902	2.859	2.821	2.760	2.702	2.648	2.598	2.664
85.0	1.517	1.482	1.451	1.424	1.399	1.382	1.367	1.351	1.334	1.328
87.5	0.737	0.712	0.689	0.668	0.648	0.655	0.663	0.673	0.684	0.670
90.0	0.419	0.412	0.405	0.398	0.392	0.382	0.374	0.367	0.361	0.363
92.5	0.361	0.372	0.383	0.393	0.402	0.383	0.364	0.344	0.326	0.333
95.0	0.361	0.368	0.376	0.384	0.392	0.395	0.397	0.398	0.397	0.395
97.5	0.404	0.393	0.382	0.371	0.362	0.380	0.398	0.416	0.433	0.433
100.0	0.433	0.426	0.418	0.410	0.403	0.410	0.417	0.425	0.434	0.443
102.5	0.477	0.466	0.454	0.443	0.433	0.433	0.433	0.433	0.436	0.454
105.0	0.506	0.499	0.491	0.483	0.476	0.485	0.494	0.501	0.506	0.503
107.5	0.506	0.506	0.506	0.506	0.507	0.515	0.524	0.533	0.542	0.543
110.0	0.549	0.549	0.549	0.548	0.547	0.546	0.545	0.544	0.544	0.552
112.5	0.621	0.621	0.621	0.620	0.618	0.607	0.596	0.585	0.580	0.589
115.0	0.650	0.650	0.650	0.650	0.649	0.641	0.632	0.622	0.617	0.625
117.5	0.693	0.682	0.671	0.659	0.652	0.662	0.672	0.681	0.686	0.684
120.0	0.809	0.801	0.793	0.784	0.774	0.769	0.764	0.761	0.762	0.768
122.5	1.040	1.028	1.016	1.003	0.990	0.978	0.965	0.951	0.942	0.945
125.0	1.373	1.353	1.332	1.310	1.293	1.299	1.302	1.304	1.296	1.275
127.5	1.907	1.898	1.887	1.874	1.861	1.859	1.856	1.851	1.841	1.822
130.0	2.600	2.611	2.619	2.624	2.623	2.612	2.598	2.581	2.567	2.556

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CANDELA TABULATION - (Cont.)

132.5	3.713	3.730	3.743	3.751	3.747	3.716	3.682	3.644	3.618	3.600
135.0	5.475	5.491	5.501	5.504	5.489	5.440	5.385	5.323	5.298	5.300
137.5	7.974	7.942	7.902	7.854	7.815	7.801	7.777	7.740	7.728	7.729
140.0	11.572	11.494	11.403	11.298	11.229	11.238	11.234	11.217	11.205	11.187
142.5	16.686	16.573	16.441	16.290	16.198	16.215	16.212	16.189	16.167	16.135
145.0	23.765	23.594	23.398	23.176	23.051	23.076	23.075	23.046	22.991	22.910
147.5	32.924	32.906	32.851	32.756	32.689	32.671	32.617	32.528	32.273	31.981
150.0	44.886	44.961	44.992	44.977	44.927	44.845	44.720	44.554	44.061	43.522
152.5	57.613	57.675	57.693	57.669	57.599	57.486	57.333	57.117	56.557	55.962
155.0	69.445	69.446	69.407	69.329	69.208	69.048	68.852	68.565	67.997	67.395
157.5	79.413	79.349	79.252	79.124	78.872	78.554	78.216	77.866	77.489	77.073
160.0	86.420	86.328	86.216	86.082	85.759	85.365	84.950	84.625	84.384	84.129
162.5	90.739	90.570	90.389	90.198	89.941	89.663	89.368	89.132	88.908	88.671
165.0	92.487	92.295	92.099	91.902	91.734	91.563	91.389	91.223	91.058	90.897
167.5	91.577	91.428	91.287	91.153	91.024	90.903	90.798	90.707	90.619	90.404
170.0	88.456	88.352	88.267	88.193	88.130	88.086	88.080	88.089	87.982	87.801
172.5	83.299	83.295	83.335	83.463	83.614	83.780	83.907	83.804	83.717	83.578
175.0	75.789	75.910	76.242	76.558	76.766	77.005	77.387	77.686	77.899	78.010
177.5	69.128	69.187	69.219	69.244	69.260	69.254	69.196	69.109	69.006	68.891
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

**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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9436.885	9436.523	9429.162	9422.288	9415.913	9410.048	9404.706	9399.898	9395.636	9391.929
5.0	8912.044	8907.227	8903.203	8899.933	8897.375	8896.156	8896.446	8898.065	8901.033	8905.373
7.5	8154.811	8157.798	8162.285	8158.511	8154.703	8152.757	8152.687	8154.507	8158.230	8163.744
10.0	7242.658	7242.224	7233.916	7226.641	7221.453	7218.337	7217.275	7220.383	7227.904	7237.225
12.5	6217.694	6213.538	6212.562	6212.536	6213.278	6214.607	6214.018	6212.294	6213.831	6218.705
15.0	5171.748	5181.908	5194.523	5209.179	5225.817	5244.853	5228.589	5215.389	5203.611	5193.159
17.5	4198.080	4210.302	4224.380	4240.252	4257.849	4260.905	4247.881	4235.975	4225.076	4215.076
20.0	3346.891	3360.330	3375.339	3391.857	3409.818	3403.794	3393.304	3383.663	3374.770	3366.257
22.5	2640.050	2654.064	2669.375	2685.934	2701.207	2692.619	2684.684	2677.305	2670.386	2662.607
25.0	2089.573	2098.137	2108.260	2119.977	2127.277	2121.887	2116.992	2112.514	2108.372	2095.360
27.5	1645.351	1654.542	1663.985	1673.567	1676.873	1673.838	1671.167	1668.798	1664.500	1615.771
30.0	1288.326	1298.716	1310.163	1322.699	1327.018	1326.536	1326.364	1326.451	1325.936	1323.460
32.5	1024.141	1030.890	1038.150	1045.899	1048.344	1049.380	1050.700	1052.266	1050.679	1044.103
35.0	809.816	815.871	822.391	829.367	831.596	833.400	835.440	837.689	837.965	836.635
37.5	648.217	652.712	657.595	662.864	665.432	668.009	670.616	673.221	673.088	671.899
40.0	528.017	530.969	534.208	537.702	541.079	544.735	548.668	552.875	552.472	550.818
42.5	439.196	440.863	442.759	444.847	446.932	449.210	451.678	454.330	454.309	454.105
45.0	373.446	374.129	374.970	375.963	377.102	378.411	379.889	381.536	381.152	380.626
47.5	324.423	324.930	325.486	325.772	325.456	325.358	325.489	325.940	327.402	328.849
50.0	284.608	286.014	287.450	287.779	286.123	284.576	283.140	282.365	284.465	286.601
52.5	248.681	250.377	252.189	252.615	250.930	249.260	247.598	246.844	249.049	251.335
55.0	217.685	218.820	220.054	220.126	218.817	217.575	216.397	216.268	218.382	220.481
57.5	190.613	191.525	192.494	192.052	190.338	188.754	187.307	187.621	190.649	193.568
60.0	165.653	166.155	166.793	165.908	163.783	161.681	159.598	160.274	164.607	169.035
62.5	143.529	142.561	141.749	140.128	137.998	135.979	134.074	135.118	139.167	143.285
65.0	124.810	122.414	120.130	117.439	114.557	111.761	109.053	109.952	113.779	117.609
67.5	103.691	101.584	99.440	96.895	94.139	91.314	88.410	89.346	93.051	96.991
70.0	80.624	79.075	77.613	75.996	74.335	72.709	71.115	72.085	74.376	76.625
72.5	60.297	58.972	57.616	56.123	54.595	53.060	51.511	52.798	55.426	58.224
75.0	39.023	38.530	38.097	37.544	36.938	36.307	35.642	36.706	38.359	40.018
77.5	18.775	18.644	18.471	18.402	18.343	18.263	18.157	19.242	20.740	22.366

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CANDELA TABULATION - (Cont.)

80.0	6.851	7.124	7.415	7.536	7.647	7.770	7.907	8.163	8.467	8.800
82.5	2.746	2.838	2.942	2.933	2.916	2.901	2.888	2.869	2.846	2.817
85.0	1.324	1.324	1.327	1.307	1.283	1.257	1.228	1.224	1.221	1.217
87.5	0.656	0.642	0.628	0.638	0.646	0.653	0.657	0.652	0.648	0.645
90.0	0.365	0.364	0.361	0.373	0.386	0.401	0.417	0.408	0.397	0.381
92.5	0.342	0.351	0.361	0.361	0.361	0.361	0.362	0.377	0.394	0.412
95.0	0.393	0.391	0.389	0.386	0.383	0.380	0.377	0.374	0.370	0.367
97.5	0.433	0.433	0.433	0.433	0.433	0.433	0.434	0.437	0.438	0.437
100.0	0.451	0.457	0.461	0.458	0.455	0.452	0.452	0.464	0.478	0.493
102.5	0.473	0.491	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506
105.0	0.502	0.504	0.508	0.514	0.519	0.522	0.521	0.514	0.510	0.507
107.5	0.542	0.538	0.537	0.546	0.557	0.569	0.574	0.562	0.545	0.525
110.0	0.561	0.571	0.578	0.578	0.578	0.578	0.585	0.604	0.622	0.640
112.5	0.597	0.603	0.605	0.603	0.600	0.597	0.600	0.612	0.626	0.642
115.0	0.634	0.643	0.653	0.659	0.663	0.666	0.665	0.662	0.658	0.655
117.5	0.682	0.680	0.682	0.692	0.703	0.716	0.724	0.727	0.728	0.726
120.0	0.774	0.778	0.780	0.781	0.779	0.776	0.777	0.783	0.790	0.799
122.5	0.947	0.951	0.958	0.969	0.979	0.988	0.987	0.979	0.969	0.956
125.0	1.255	1.235	1.234	1.245	1.254	1.260	1.260	1.258	1.255	1.251
127.5	1.799	1.771	1.757	1.753	1.750	1.748	1.739	1.726	1.712	1.697
130.0	2.544	2.531	2.523	2.513	2.497	2.473	2.445	2.416	2.388	2.360
132.5	3.577	3.546	3.542	3.544	3.542	3.536	3.471	3.401	3.328	3.261
135.0	5.293	5.277	5.256	5.231	5.199	5.160	5.078	4.983	4.872	4.764
137.5	7.722	7.706	7.645	7.577	7.506	7.442	7.421	7.391	7.353	7.282
140.0	11.155	11.108	11.005	10.878	10.728	10.569	10.441	10.312	10.185	10.072
142.5	16.083	16.009	15.869	15.726	15.582	15.419	15.202	14.957	14.684	14.242
145.0	22.806	22.645	22.302	21.940	21.560	21.267	21.057	20.829	20.582	19.936
147.5	31.673	31.345	30.966	30.542	30.074	29.731	29.427	29.065	28.645	27.610
150.0	42.946	42.445	42.065	41.655	41.214	40.977	40.794	40.618	40.312	38.948
152.5	55.336	54.907	54.603	54.243	53.826	53.234	52.653	52.088	51.415	50.353
155.0	66.758	66.417	66.187	65.962	65.609	64.807	63.992	63.166	62.358	61.447
157.5	76.616	76.153	75.676	75.183	74.553	73.772	72.947	72.079	71.479	70.898
160.0	83.832	83.414	82.982	82.536	82.035	81.540	81.062	80.521	79.847	79.094
162.5	88.325	87.905	87.491	87.037	86.460	85.863	85.244	84.801	84.284	83.896
165.0	90.472	90.050	89.624	89.246	88.880	88.520	88.155	87.787	87.422	86.877
167.5	90.124	89.847	89.546	89.240	88.942	88.650	88.364	88.130	87.701	87.143
170.0	87.638	87.425	87.221	87.033	86.860	86.676	86.471	86.107	85.698	85.297
172.5	83.450	83.440	83.506	83.577	83.322	83.105	82.757	82.284	81.829	81.392
175.0	77.999	77.971	76.997	75.766	74.748	74.053	73.892	73.721	73.538	73.341
177.5	68.765	68.629	68.484	68.331	68.036	68.054	68.077	68.101	68.125	68.148
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

**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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9388.789	9386.225	9388.420	9392.545	9397.330	9402.786	9408.919	9415.736	9423.243	9431.444
5.0	8911.103	8918.244	8924.059	8929.380	8935.832	8943.412	8952.113	8962.339	8961.664	8955.220
7.5	8170.817	8179.423	8189.538	8201.138	8215.607	8210.223	8199.932	8191.192	8184.002	8178.359
10.0	7248.304	7261.097	7272.787	7267.315	7262.677	7254.778	7248.470	7243.713	7246.714	7249.687
12.5	6226.992	6231.269	6223.981	6228.917	6212.443	6208.181	6209.473	6217.515	6227.006	6237.875
15.0	5183.824	5175.029	5203.833	5161.054	5158.613	5160.692	5168.667	5177.742	5187.819	5198.795
17.5	4205.650	4196.915	4207.387	4184.877	4185.192	4192.450	4200.410	4208.959	4217.983	4222.393
20.0	3357.221	3348.672	3347.177	3338.576	3342.356	3348.747	3355.521	3362.566	3368.391	3368.447
22.5	2654.214	2646.219	2638.610	2638.530	2643.640	2648.944	2654.341	2659.727	2660.363	2658.449
25.0	2084.665	2078.943	2077.847	2078.280	2081.927	2085.702	2089.520	2094.451	2089.653	2086.008

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CANDELA TABULATION - (Cont.)

27.5	1562.055	1509.270	1446.248	1457.608	1491.997	1524.035	1553.509	1578.060	1595.586	1609.762
30.0	1321.751	1329.600	1316.423	1300.484	1287.070	1276.965	1270.302	1266.794	1265.970	1267.983
32.5	1037.137	1034.636	1025.104	1026.581	1027.345	1027.310	1026.392	1022.191	1017.246	1011.999
35.0	835.366	837.546	832.359	827.838	823.737	820.046	817.352	814.888	812.257	808.865
37.5	670.924	672.229	669.217	666.522	663.635	660.519	657.404	655.224	653.154	651.175
40.0	549.065	548.433	545.820	544.275	542.536	540.573	538.748	537.222	535.261	532.832
42.5	454.008	454.773	453.759	453.102	452.295	451.316	450.542	450.011	449.343	448.522
45.0	379.941	379.417	380.443	382.060	383.407	384.458	384.445	383.907	383.314	382.653
47.5	330.272	331.845	333.334	334.980	336.553	338.042	336.806	334.843	333.051	331.430
50.0	288.766	291.026	292.262	293.663	295.146	296.707	295.565	293.885	292.097	290.193
52.5	253.701	256.025	257.303	258.608	259.937	261.283	260.264	259.082	257.827	256.493
55.0	222.557	224.544	226.430	228.278	230.083	231.680	230.454	229.264	228.106	226.978
57.5	196.365	198.660	199.979	201.382	202.868	204.094	203.240	202.339	201.387	200.408
60.0	173.558	176.947	177.638	178.413	179.272	179.922	179.552	179.112	178.597	178.078
62.5	147.470	151.173	153.917	156.482	158.858	160.292	159.955	159.625	159.300	158.943
65.0	121.439	125.796	130.839	135.663	140.255	142.382	140.918	139.676	138.661	137.956
67.5	101.177	105.342	109.323	113.460	117.757	119.942	119.292	118.504	117.570	116.268
70.0	79.528	81.840	85.714	89.659	93.673	95.255	94.628	94.116	93.719	92.205
72.5	61.950	63.678	65.883	68.289	70.900	71.447	70.468	69.527	68.621	66.380
75.0	42.330	43.222	44.878	46.642	48.515	49.125	48.917	48.574	48.087	46.041
77.5	24.662	25.655	27.166	28.700	30.255	30.382	30.008	29.714	29.499	28.262
80.0	9.383	9.871	10.978	12.151	13.392	13.647	13.552	13.385	13.140	12.829
82.5	2.834	2.919	3.265	3.652	4.080	4.262	4.318	4.290	4.173	4.138
85.0	1.231	1.248	1.314	1.379	1.443	1.471	1.484	1.486	1.475	1.467
87.5	0.650	0.647	0.661	0.677	0.693	0.693	0.693	0.694	0.695	0.714
90.0	0.361	0.368	0.382	0.394	0.405	0.422	0.432	0.436	0.433	0.433
92.5	0.433	0.431	0.427	0.423	0.418	0.405	0.396	0.393	0.394	0.399
95.0	0.363	0.383	0.402	0.420	0.432	0.428	0.420	0.411	0.402	0.405
97.5	0.436	0.453	0.467	0.481	0.491	0.486	0.482	0.477	0.474	0.479
100.0	0.506	0.504	0.503	0.504	0.506	0.506	0.506	0.506	0.506	0.506
102.5	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.509	0.517
105.0	0.512	0.530	0.545	0.558	0.563	0.558	0.554	0.549	0.548	0.553
107.5	0.514	0.532	0.550	0.568	0.578	0.578	0.578	0.578	0.583	0.591
110.0	0.650	0.645	0.640	0.637	0.634	0.630	0.625	0.621	0.621	0.627
112.5	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650
115.0	0.650	0.650	0.650	0.650	0.660	0.672	0.682	0.689	0.688	0.683
117.5	0.710	0.689	0.671	0.654	0.664	0.682	0.700	0.718	0.730	0.737
120.0	0.781	0.759	0.736	0.713	0.721	0.735	0.749	0.763	0.776	0.790
122.5	0.939	0.930	0.918	0.903	0.906	0.911	0.916	0.920	0.915	0.912
125.0	1.228	1.213	1.196	1.179	1.180	1.180	1.180	1.178	1.159	1.140
127.5	1.643	1.603	1.563	1.530	1.540	1.548	1.553	1.551	1.532	1.509
130.0	2.350	2.345	2.331	2.308	2.278	2.249	2.221	2.193	2.158	2.123
132.5	3.240	3.245	3.246	3.242	3.230	3.213	3.189	3.158	3.122	3.080
135.0	4.708	4.699	4.685	4.665	4.641	4.612	4.579	4.530	4.471	4.413
137.5	7.153	7.036	6.921	6.817	6.722	6.628	6.536	6.463	6.388	6.301
140.0	9.984	9.946	9.889	9.753	9.584	9.414	9.242	9.145	9.061	8.972
142.5	14.300	14.184	14.059	13.846	13.607	13.360	13.105	12.952	12.794	12.630
145.0	19.814	19.504	19.201	19.023	18.819	18.591	18.344	18.110	17.870	17.625
147.5	27.344	26.848	26.388	26.082	25.767	25.444	25.111	24.766	24.413	24.055
150.0	38.096	37.013	36.202	35.706	35.197	34.676	34.139	33.591	33.040	32.485
152.5	49.619	48.649	47.870	47.183	46.491	45.796	45.083	44.370	43.659	42.858
155.0	60.580	59.614	58.895	58.173	57.448	56.671	55.772	54.914	54.101	53.079
157.5	70.243	69.530	68.777	68.023	67.270	66.332	65.301	64.273	63.249	63.188
160.0	78.203	77.466	76.752	76.039	75.308	74.470	73.607	72.720	72.472	73.280
162.5	83.238	82.460	81.713	80.997	80.388	79.802	79.225	78.783	80.468	82.032
165.0	86.161	85.447	84.735	84.108	83.525	82.952	82.389	84.540	86.745	88.908

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CANDELA TABULATION - (Cont.)

167.5	86.591	86.044	85.501	84.981	84.484	84.749	87.237	89.686	92.098	93.470
170.0	84.795	84.285	83.799	83.847	85.950	88.164	90.486	92.050	92.022	92.006
172.5	81.359	81.802	82.529	83.528	83.837	84.025	84.262	84.544	84.819	85.059
175.0	73.277	73.249	73.212	73.163	73.104	72.990	72.915	72.760	72.966	73.142
177.5	68.167	68.183	68.194	68.199	68.198	68.191	68.176	68.153	68.123	68.084
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9440.342	9449.937	9471.429	9469.408	9466.052	9462.003	9458.396	9455.243	9452.555	9450.345
5.0	8946.736	8939.483	8933.480	8928.740	8925.279	8923.110	8922.478	8923.611	8926.534	8931.273
7.5	8172.133	8164.962	8159.726	8156.431	8155.076	8157.398	8182.251	8208.467	8236.013	8264.850
10.0	7252.202	7254.114	7255.272	7265.310	7279.091	7296.626	7317.957	7332.153	7316.589	7298.765
12.5	6250.044	6248.437	6243.284	6241.813	6244.030	6250.559	6261.572	6269.625	6274.462	6275.826
15.0	5195.874	5187.258	5176.026	5161.938	5153.197	5161.464	5172.356	5185.832	5198.222	5144.153
17.5	4223.551	4224.637	4225.518	4225.282	4221.491	4216.896	4211.348	4204.702	4212.390	4155.316
20.0	3368.201	3367.528	3366.302	3357.443	3348.352	3340.225	3332.981	3322.246	3316.083	3291.090
22.5	2656.237	2653.623	2646.613	2630.727	2611.761	2589.550	2568.042	2563.799	2560.756	2568.018
25.0	2081.990	2077.509	2056.548	2036.401	2022.423	2014.688	2020.495	2024.998	2020.755	2014.060
27.5	1620.394	1622.972	1586.721	1541.604	1487.350	1423.711	1443.328	1481.187	1518.188	1567.165
30.0	1272.896	1277.974	1279.591	1280.823	1281.621	1278.690	1266.067	1259.527	1238.162	1232.465
32.5	1006.403	1003.659	1002.812	1002.216	1001.846	997.968	989.658	983.511	971.517	969.227
35.0	804.659	800.071	795.081	789.613	783.633	778.984	774.821	772.012	769.239	771.077
37.5	649.322	648.113	646.254	643.711	640.451	635.668	630.335	624.812	620.511	624.817
40.0	530.269	528.799	527.364	525.953	524.297	520.678	516.703	512.445	510.293	514.824
42.5	447.253	445.351	443.281	441.028	438.715	436.275	433.209	429.756	429.143	433.028
45.0	381.509	379.870	378.103	376.199	375.114	375.446	376.027	376.769	378.359	381.817
47.5	330.056	328.701	327.269	325.754	324.149	322.383	320.430	318.658	320.471	324.570
50.0	288.836	287.615	286.309	284.912	283.701	282.561	281.362	280.237	281.368	283.621
52.5	255.411	254.368	253.311	252.236	251.192	250.175	249.172	248.231	249.916	252.276
55.0	225.966	224.968	223.978	222.990	222.057	220.934	220.523	218.284	220.196	222.533
57.5	199.822	199.064	198.126	197.013	196.652	196.337	196.755	195.885	197.101	198.425
60.0	177.968	177.878	177.807	177.717	177.302	176.848	176.970	175.966	177.121	178.254
62.5	158.515	158.150	157.848	157.535	157.076	156.857	157.604	157.083	158.392	159.666
65.0	137.547	137.199	136.910	136.390	135.031	133.514	132.383	131.226	133.521	135.742
67.5	114.742	113.435	112.346	111.456	110.808	110.467	111.181	110.765	112.305	113.904
70.0	89.541	87.163	85.070	83.383	81.776	79.943	78.479	77.947	80.928	83.813
72.5	62.861	59.162	55.275	52.626	51.280	49.918	48.840	50.105	54.133	57.940
75.0	43.070	40.084	37.081	35.192	34.004	32.694	31.462	32.556	35.888	39.244
77.5	26.310	24.090	21.595	20.233	19.491	18.673	17.886	18.646	20.576	22.687
80.0	12.356	11.699	10.852	10.354	9.976	9.535	9.092	9.089	9.500	10.074
82.5	4.088	3.988	3.837	3.627	3.357	3.024	2.638	2.847	3.152	3.410
85.0	1.453	1.429	1.396	1.379	1.360	1.336	1.310	1.347	1.389	1.427
87.5	0.730	0.741	0.747	0.752	0.750	0.741	0.725	0.728	0.732	0.736
90.0	0.433	0.433	0.433	0.455	0.475	0.492	0.506	0.519	0.526	0.529
92.5	0.403	0.408	0.416	0.461	0.503	0.543	0.577	0.555	0.536	0.519
95.0	0.407	0.405	0.407	0.444	0.486	0.533	0.578	0.576	0.572	0.566
97.5	0.487	0.497	0.511	0.532	0.551	0.567	0.578	0.578	0.578	0.578
100.0	0.506	0.506	0.518	0.557	0.594	0.628	0.649	0.644	0.639	0.634
102.5	0.523	0.526	0.541	0.584	0.632	0.684	0.721	0.716	0.711	0.706
105.0	0.561	0.571	0.588	0.609	0.627	0.643	0.659	0.680	0.698	0.714
107.5	0.596	0.599	0.617	0.651	0.683	0.711	0.721	0.718	0.718	0.720
110.0	0.635	0.645	0.682	0.736	0.790	0.844	0.854	0.828	0.805	0.784
112.5	0.650	0.650	0.686	0.740	0.795	0.849	0.867	0.864	0.859	0.852

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115.0	0.678	0.673	0.709	0.758	0.807	0.856	0.880	0.895	0.908	0.918
117.5	0.742	0.744	0.782	0.829	0.878	0.930	0.937	0.935	0.935	0.938
120.0	0.803	0.816	0.846	0.877	0.908	0.936	0.939	0.939	0.939	0.939
122.5	0.911	0.912	0.934	0.958	0.985	1.011	1.008	1.003	0.998	0.993
125.0	1.120	1.102	1.100	1.098	1.096	1.085	1.100	1.110	1.117	1.121
127.5	1.484	1.459	1.447	1.431	1.413	1.376	1.382	1.380	1.378	1.378
130.0	2.087	2.057	2.038	2.019	2.000	1.956	1.947	1.925	1.903	1.887
132.5	3.032	2.996	2.969	2.926	2.867	2.753	2.731	2.693	2.656	2.627
135.0	4.356	4.369	4.423	4.466	4.498	4.428	4.370	4.286	4.200	4.100
137.5	6.202	6.214	6.266	6.313	6.356	6.266	6.224	6.161	6.094	6.007
140.0	8.877	8.846	8.843	8.860	8.900	8.806	8.709	8.606	8.502	8.396
142.5	12.451	12.176	11.919	11.681	11.477	11.443	11.481	11.496	11.484	11.342
145.0	17.279	16.702	16.182	15.719	15.389	15.268	15.170	15.082	14.982	14.818
147.5	23.268	22.111	21.046	20.073	19.513	19.279	19.096	18.923	18.774	18.637
150.0	30.752	28.733	26.839	25.069	24.465	24.208	24.016	23.816	23.558	23.292
152.5	40.222	37.517	34.744	32.087	30.894	30.822	30.535	30.241	29.767	29.311
155.0	51.505	49.658	47.542	45.627	43.895	43.056	42.022	41.171	40.511	39.823
157.5	63.213	63.131	62.943	61.836	60.578	59.146	57.665	56.320	55.077	53.915
160.0	74.011	74.667	74.521	73.396	72.252	71.003	69.874	68.923	67.954	66.968
162.5	83.479	84.531	83.590	82.444	81.616	80.504	79.654	78.833	78.033	77.256
165.0	90.889	90.179	89.470	88.761	87.833	86.960	86.132	85.346	84.602	83.909
167.5	93.005	92.541	92.066	91.497	90.866	90.234	89.604	88.974	88.430	87.913
170.0	92.000	92.161	91.713	91.263	90.826	90.401	89.895	89.396	88.939	88.523
172.5	85.236	85.139	85.061	84.749	84.454	84.186	83.945	83.726	83.604	83.497
175.0	73.289	73.510	73.798	74.037	74.229	74.376	74.478	74.556	74.584	74.611
177.5	68.037	67.982	67.918	67.845	67.764	67.675	67.576	67.470	67.355	67.240
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9448.625	9447.410	9446.712	9446.546	9446.928	9447.873	9449.400	9451.527	9454.274	9457.664
5.0	8937.853	8946.296	8962.261	8984.862	9008.645	9048.988	9049.105	9058.538	9061.145	9058.649
7.5	8296.003	8299.005	8317.395	8305.834	8302.296	8278.734	8224.861	8174.043	8126.219	8092.555
10.0	7314.416	7257.134	7223.152	7183.269	7140.473	7094.494	7095.807	7123.507	7151.310	7179.057
12.5	6228.323	6164.382	6102.327	6042.042	6038.516	6065.376	6091.904	6117.934	6140.598	6161.007
15.0	5091.769	5036.993	4979.619	5001.015	5025.910	5049.813	5074.112	5093.829	5113.242	5130.625
17.5	4127.874	4094.393	4091.469	4094.916	4099.849	4106.149	4125.081	4142.961	4158.896	4169.997
20.0	3275.177	3269.988	3272.924	3273.838	3272.597	3282.649	3298.867	3313.227	3325.619	3328.779
22.5	2571.393	2576.395	2579.517	2580.654	2582.539	2597.240	2610.392	2621.909	2632.071	2642.415
25.0	2014.503	2019.476	2022.834	2024.494	2032.264	2044.102	2054.677	2063.925	2068.046	2067.983
27.5	1576.130	1580.582	1583.793	1585.704	1595.798	1605.389	1613.933	1621.655	1631.384	1640.119
30.0	1236.492	1239.684	1241.994	1246.381	1258.387	1268.749	1277.441	1283.490	1287.494	1291.634
32.5	972.767	975.557	977.563	983.157	993.106	1003.418	1014.052	1020.244	1022.274	1022.747
35.0	773.912	776.155	777.778	781.409	785.658	789.587	793.172	797.578	801.806	805.587
37.5	629.195	632.761	635.497	635.969	636.388	636.873	637.542	640.339	642.982	645.360
40.0	519.128	523.190	526.537	525.782	524.704	523.294	522.152	523.429	524.499	525.354
42.5	436.718	440.204	442.667	442.523	441.888	440.757	439.369	438.390	437.550	436.836
45.0	385.015	387.947	390.063	390.965	391.361	391.255	388.627	383.740	378.980	374.339
47.5	328.721	332.914	336.525	339.709	342.991	346.363	346.213	343.345	340.043	336.309
50.0	285.907	288.222	289.819	291.013	292.161	293.260	292.088	289.821	287.301	284.530
52.5	254.528	256.670	257.519	258.019	258.513	258.997	257.582	255.783	253.994	252.211
55.0	224.873	227.212	228.582	229.662	230.566	231.293	229.269	226.963	224.576	222.123
57.5	199.826	201.299	202.393	203.504	204.637	205.798	204.173	202.411	200.443	198.277
60.0	179.365	180.425	181.169	181.874	182.539	182.906	181.326	179.884	178.573	176.915

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CANDELA TABULATION - (Cont.)

62.5	160.901	162.050	162.923	163.749	164.526	164.468	161.336	158.402	155.656	152.779
65.0	137.886	139.868	141.533	143.123	144.635	144.572	140.615	136.629	132.611	128.727
67.5	115.560	117.223	118.817	120.415	122.014	121.608	117.597	113.557	109.487	105.678
70.0	86.599	89.438	92.333	95.036	97.545	97.541	94.272	90.746	86.969	83.737
72.5	61.522	64.262	66.416	68.710	71.140	71.754	70.302	68.573	66.571	64.110
75.0	42.620	44.793	46.051	47.319	48.596	48.627	47.790	47.003	46.261	44.824
77.5	24.975	26.553	27.675	28.804	29.939	29.790	28.827	27.726	26.487	25.090
80.0	10.808	11.522	12.187	12.851	13.513	13.535	13.173	12.660	11.997	11.390
82.5	3.622	3.810	3.975	4.113	4.222	4.213	4.128	3.987	3.792	3.669
85.0	1.458	1.479	1.491	1.495	1.491	1.483	1.471	1.456	1.437	1.432
87.5	0.740	0.754	0.767	0.777	0.783	0.784	0.777	0.762	0.740	0.739
90.0	0.526	0.536	0.542	0.543	0.539	0.527	0.518	0.511	0.506	0.506
92.5	0.506	0.513	0.521	0.533	0.545	0.539	0.530	0.519	0.506	0.509
95.0	0.558	0.553	0.548	0.543	0.538	0.534	0.529	0.525	0.522	0.533
97.5	0.578	0.578	0.578	0.578	0.579	0.586	0.590	0.593	0.591	0.585
100.0	0.629	0.624	0.620	0.615	0.612	0.619	0.628	0.640	0.647	0.631
102.5	0.697	0.681	0.667	0.656	0.650	0.650	0.650	0.650	0.650	0.650
105.0	0.720	0.713	0.704	0.692	0.682	0.677	0.672	0.668	0.664	0.659
107.5	0.722	0.722	0.722	0.722	0.726	0.732	0.736	0.737	0.736	0.731
110.0	0.773	0.768	0.763	0.759	0.763	0.777	0.790	0.803	0.808	0.804
112.5	0.845	0.841	0.836	0.831	0.837	0.850	0.863	0.877	0.880	0.876
115.0	0.917	0.912	0.907	0.903	0.910	0.923	0.936	0.950	0.950	0.944
117.5	0.939	0.939	0.939	0.939	0.947	0.959	0.973	0.990	0.990	0.980
120.0	0.950	0.960	0.968	0.973	0.970	0.965	0.960	0.956	0.965	0.979
122.5	1.006	1.019	1.032	1.045	1.041	1.037	1.032	1.028	1.039	1.052
125.0	1.116	1.115	1.116	1.118	1.121	1.122	1.120	1.116	1.128	1.138
127.5	1.382	1.381	1.376	1.364	1.340	1.320	1.305	1.294	1.313	1.331
130.0	1.883	1.880	1.876	1.867	1.833	1.793	1.747	1.700	1.682	1.670
132.5	2.609	2.591	2.573	2.559	2.550	2.539	2.527	2.506	2.460	2.411
135.0	3.995	3.897	3.804	3.750	3.726	3.695	3.658	3.602	3.526	3.453
137.5	5.907	5.801	5.690	5.631	5.607	5.589	5.574	5.526	5.440	5.355
140.0	8.288	8.179	8.071	8.009	7.959	7.907	7.854	7.764	7.654	7.550
142.5	11.202	11.065	10.929	10.871	10.817	10.764	10.713	10.597	10.464	10.335
145.0	14.654	14.491	14.338	14.256	14.177	14.102	14.031	13.876	13.728	13.588
147.5	18.495	18.348	18.198	18.055	17.929	17.817	17.708	17.539	17.366	17.190
150.0	23.042	22.807	22.557	22.299	22.052	21.818	21.620	21.470	21.326	21.189
152.5	28.871	28.448	28.034	27.632	27.241	26.862	26.567	26.320	26.082	25.854
155.0	39.110	38.323	37.376	36.468	35.599	34.770	34.161	33.573	32.997	32.436
157.5	52.836	51.821	50.798	49.762	48.717	47.720	46.886	46.127	45.443	44.833
160.0	65.962	64.962	64.028	63.160	62.357	61.423	60.472	59.548	58.649	57.896
162.5	76.300	75.311	74.341	73.392	72.449	71.516	70.617	69.752	68.921	68.160
165.0	83.218	82.516	81.803	81.055	80.201	79.347	78.494	77.642	77.055	76.615
167.5	87.414	86.931	86.420	85.825	85.242	84.673	84.117	83.619	83.061	82.716
170.0	88.149	87.751	87.372	87.009	86.661	86.343	86.009	85.713	85.452	84.967
172.5	83.397	83.304	83.215	83.108	82.971	82.817	82.645	82.472	82.059	81.654
175.0	74.617	74.605	74.573	74.522	74.460	74.394	74.348	74.285	74.206	74.110
177.5	67.340	67.457	67.558	67.644	67.716	67.773	67.815	67.843	67.858	67.859
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9461.721	9466.473	9471.949	9478.182	9485.211	9493.076	9501.824	9512.739	9511.637	9509.327
5.0	9057.754	9058.465	9060.784	9056.198	9025.983	8995.650	8964.914	8933.427	8942.985	8967.612
7.5	8115.338	8136.390	8155.473	8166.825	8165.332	8159.213	8148.655	8170.001	8186.337	8203.261

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10.0	7201.131	7220.966	7239.704	7253.005	7251.095	7265.782	7236.381	7280.702	7327.211	7372.398
12.5	6179.780	6195.078	6191.081	6184.500	6204.020	6201.025	6246.791	6290.951	6315.128	6305.056
15.0	5140.304	5134.837	5126.423	5114.894	5141.662	5183.932	5224.291	5250.420	5252.421	5250.947
17.5	4165.301	4157.688	4147.034	4184.986	4191.577	4226.726	4258.074	4261.285	4261.367	4258.199
20.0	3325.874	3318.161	3310.546	3339.536	3356.784	3384.535	3397.262	3398.301	3396.443	3391.750
22.5	2652.731	2662.907	2669.667	2672.704	2675.285	2679.428	2680.810	2679.891	2676.503	2670.380
25.0	2064.794	2058.470	2066.882	2076.999	2093.205	2102.802	2103.426	2101.941	2098.318	2090.515
27.5	1647.818	1651.863	1648.833	1645.779	1645.385	1646.026	1646.004	1644.327	1640.976	1631.979
30.0	1295.857	1296.155	1301.948	1289.918	1288.512	1288.653	1288.036	1286.129	1282.130	1273.421
32.5	1021.659	1018.863	1021.010	1012.531	1010.734	1011.062	1010.357	1008.613	1005.973	1002.190
35.0	808.904	805.627	805.145	798.661	796.925	797.355	796.953	795.718	794.663	793.798
37.5	646.708	643.875	642.650	638.169	637.022	637.313	636.984	636.035	635.694	635.460
40.0	525.086	522.435	520.274	516.911	516.668	517.808	518.389	518.419	518.730	518.876
42.5	436.493	436.161	436.000	435.071	434.608	434.051	433.325	432.419	433.254	434.077
45.0	372.172	372.129	372.922	373.947	377.111	380.330	382.855	384.720	385.084	385.239
47.5	332.718	328.809	324.479	320.014	320.968	322.949	325.053	327.276	330.038	332.507
50.0	283.044	281.780	280.413	279.385	281.307	283.195	284.852	286.335	288.089	289.770
52.5	251.395	250.592	249.701	248.796	250.837	252.775	254.621	256.082	256.256	256.510
55.0	221.131	220.185	219.286	218.888	221.073	223.179	225.206	226.772	227.088	227.246
57.5	196.205	194.350	192.695	191.914	194.507	196.981	199.338	201.051	201.544	201.964
60.0	173.057	169.146	165.210	163.607	167.730	171.641	175.347	177.706	178.084	178.412
62.5	149.001	145.140	141.202	139.753	143.339	146.928	150.516	153.530	155.623	157.463
65.0	125.150	121.535	117.879	116.883	119.952	123.020	126.081	129.791	134.006	137.999
67.5	102.147	98.402	94.524	94.350	98.200	101.907	105.477	108.801	112.098	115.505
70.0	81.348	79.779	76.556	76.095	77.735	79.570	81.582	84.066	86.762	89.421
72.5	61.337	59.114	55.528	55.752	58.016	60.148	62.152	64.002	65.818	67.637
75.0	42.814	41.369	38.404	38.227	39.358	40.573	41.860	42.773	43.564	44.416
77.5	23.511	22.168	19.994	20.129	20.987	21.825	22.638	23.357	23.963	24.473
80.0	10.727	10.157	9.136	8.928	8.917	8.935	8.977	9.393	9.884	10.352
82.5	3.544	3.451	3.295	3.338	3.346	3.303	3.210	3.307	3.436	3.552
85.0	1.426	1.434	1.424	1.465	1.488	1.492	1.478	1.501	1.528	1.552
87.5	0.739	0.742	0.741	0.771	0.797	0.819	0.836	0.829	0.820	0.811
90.0	0.506	0.506	0.512	0.523	0.534	0.545	0.555	0.555	0.551	0.544
92.5	0.509	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506
95.0	0.546	0.562	0.576	0.572	0.568	0.565	0.561	0.545	0.530	0.517
97.5	0.581	0.578	0.578	0.578	0.578	0.578	0.578	0.573	0.566	0.558
100.0	0.613	0.592	0.581	0.597	0.612	0.624	0.631	0.615	0.601	0.588
102.5	0.650	0.650	0.648	0.646	0.646	0.647	0.649	0.644	0.638	0.630
105.0	0.655	0.650	0.650	0.650	0.650	0.650	0.653	0.666	0.677	0.687
107.5	0.727	0.722	0.719	0.716	0.712	0.709	0.711	0.725	0.740	0.755
110.0	0.800	0.795	0.792	0.788	0.785	0.781	0.779	0.781	0.785	0.790
112.5	0.872	0.867	0.856	0.837	0.819	0.804	0.800	0.813	0.824	0.834
115.0	0.941	0.939	0.936	0.930	0.922	0.913	0.901	0.888	0.878	0.870
117.5	0.965	0.946	0.939	0.939	0.939	0.939	0.937	0.932	0.925	0.917
120.0	0.992	1.005	1.008	1.004	1.000	0.997	0.994	0.991	0.988	0.985
122.5	1.066	1.079	1.067	1.048	1.031	1.016	1.019	1.031	1.042	1.051
125.0	1.147	1.153	1.165	1.174	1.180	1.182	1.170	1.154	1.141	1.132
127.5	1.350	1.369	1.362	1.353	1.347	1.343	1.334	1.322	1.310	1.297
130.0	1.662	1.660	1.662	1.662	1.661	1.659	1.635	1.608	1.583	1.560
132.5	2.360	2.311	2.311	2.310	2.309	2.308	2.275	2.239	2.204	2.169
135.0	3.383	3.326	3.324	3.322	3.320	3.319	3.284	3.251	3.219	3.188
137.5	5.271	5.203	5.173	5.145	5.119	5.091	5.023	4.959	4.901	4.846
140.0	7.449	7.376	7.348	7.323	7.300	7.270	7.202	7.138	7.078	7.023
142.5	10.091	10.125	10.084	10.047	10.013	9.964	9.876	9.795	9.720	9.651
145.0	13.344	13.321	13.196	13.084	12.985	12.909	12.852	12.798	12.747	12.695
147.5	16.900	16.859	16.727	16.601	16.480	16.395	16.337	16.285	16.240	16.189

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150.0	20.951	20.863	20.695	20.536	20.386	20.235	20.097	19.976	19.870	19.797
152.5	25.504	25.358	25.149	24.951	24.764	24.628	24.499	24.372	24.250	24.124
155.0	31.690	31.397	31.065	30.750	30.445	30.130	29.842	29.582	29.347	29.208
157.5	43.966	43.178	42.421	41.703	41.011	40.339	39.701	39.097	38.526	38.295
160.0	57.359	56.713	56.071	55.435	54.613	53.777	52.977	52.214	51.524	51.058
162.5	67.894	67.346	66.826	66.265	65.520	64.803	64.114	63.452	62.942	62.566
165.0	76.277	75.853	75.444	74.723	73.965	73.236	72.535	71.863	71.473	71.121
167.5	82.155	81.631	80.978	80.255	79.553	78.870	78.206	77.663	77.210	76.779
170.0	84.482	83.844	83.195	82.560	81.938	81.329	80.770	80.260	79.766	79.287
172.5	81.248	80.840	80.432	80.022	79.623	79.304	78.977	78.642	78.299	77.949
175.0	73.997	73.872	73.741	73.603	73.457	73.303	73.140	72.969	72.845	72.827
177.5	67.847	67.847	67.919	67.985	68.045	68.100	68.149	68.193	68.231	68.264
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9508.025	9507.769	9508.609	9506.555	9493.042	9479.929	9467.320	9460.463	9468.475	9477.861
5.0	9000.330	9002.297	8982.729	8965.075	8966.384	8983.923	9011.829	9050.400	9015.845	9020.219
7.5	8249.762	8295.808	8306.803	8258.748	8206.588	8243.586	8277.873	8287.704	8288.113	8296.014
10.0	7340.805	7297.848	7257.309	7292.809	7325.210	7349.234	7361.882	7369.905	7375.073	7375.974
12.5	6288.182	6274.562	6281.893	6288.702	6299.196	6315.196	6327.027	6332.460	6331.468	6325.901
15.0	5246.452	5243.121	5236.302	5225.832	5241.790	5254.459	5263.169	5262.784	5257.918	5248.820
17.5	4253.656	4246.620	4236.154	4234.876	4246.832	4255.442	4262.510	4271.148	4275.253	4277.530
20.0	3384.969	3375.256	3362.552	3366.849	3374.174	3378.672	3389.924	3408.938	3425.182	3436.298
22.5	2661.547	2650.229	2637.323	2642.997	2646.442	2647.612	2656.803	2669.120	2679.227	2685.312
25.0	2080.101	2067.707	2058.118	2060.411	2060.917	2059.610	2065.551	2071.977	2076.702	2079.193
27.5	1621.317	1609.008	1601.826	1601.868	1600.514	1597.748	1600.772	1602.993	1603.855	1603.987
30.0	1263.386	1252.029	1246.637	1245.185	1242.645	1239.407	1240.551	1240.834	1240.056	1238.960
32.5	996.869	990.066	984.046	978.298	972.053	966.524	969.133	970.755	971.441	970.467
35.0	792.135	789.679	784.060	777.177	769.524	763.377	765.706	767.650	769.155	769.414
37.5	634.623	633.189	628.705	623.452	617.623	612.841	611.948	610.615	608.847	608.784
40.0	518.593	517.985	514.393	510.512	506.205	502.827	501.825	500.512	498.887	498.481
42.5	434.540	434.374	431.470	428.290	424.838	422.211	421.088	419.734	418.150	417.572
45.0	385.250	385.019	384.018	382.625	380.881	377.170	371.436	365.929	360.571	358.775
47.5	334.690	336.347	337.109	337.824	338.470	335.959	329.745	323.087	316.048	313.692
50.0	291.375	292.033	290.651	289.211	287.705	285.495	282.591	279.556	276.392	275.223
52.5	256.826	256.751	255.795	254.660	253.355	251.434	249.021	246.482	243.823	243.060
55.0	227.251	226.797	225.828	224.808	223.731	222.430	220.900	219.245	217.476	216.993
57.5	202.311	201.879	200.576	199.214	197.788	196.838	196.113	195.297	194.394	194.110
60.0	178.687	178.421	177.579	176.609	175.519	174.873	174.427	173.909	173.323	173.385
62.5	159.066	159.593	159.333	158.993	158.576	158.114	157.628	157.109	156.553	156.764
65.0	141.784	143.223	143.177	143.091	142.964	141.878	140.463	139.056	137.638	137.464
67.5	119.004	119.908	119.363	118.822	118.271	117.096	115.586	113.931	112.144	111.482
70.0	92.038	92.967	92.949	92.729	92.325	91.193	89.865	88.503	87.101	86.996
72.5	69.452	69.516	68.998	68.559	68.176	66.272	63.986	61.664	59.290	59.522
75.0	45.316	45.297	44.818	44.164	43.348	40.939	38.128	35.212	32.203	32.191
77.5	24.890	24.545	24.037	23.538	23.037	22.016	20.786	19.438	17.988	18.063
80.0	10.794	10.618	10.217	9.709	9.105	8.817	8.542	8.232	7.892	7.953
82.5	3.656	3.720	3.757	3.774	3.771	3.700	3.610	3.506	3.390	3.407
85.0	1.574	1.625	1.677	1.726	1.771	1.754	1.729	1.700	1.667	1.676
87.5	0.802	0.827	0.854	0.879	0.905	0.901	0.894	0.883	0.869	0.874
90.0	0.534	0.526	0.519	0.512	0.506	0.509	0.512	0.515	0.516	0.518
92.5	0.506	0.498	0.490	0.480	0.469	0.468	0.466	0.465	0.464	0.463
95.0	0.507	0.517	0.526	0.534	0.542	0.531	0.522	0.514	0.506	0.506

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CANDELA TABULATION - (Cont.)

97.5	0.550	0.545	0.542	0.541	0.542	0.534	0.525	0.516	0.506	0.514
100.0	0.577	0.570	0.561	0.551	0.542	0.540	0.539	0.538	0.537	0.547
102.5	0.622	0.620	0.617	0.615	0.614	0.612	0.611	0.610	0.609	0.608
105.0	0.692	0.679	0.668	0.658	0.651	0.659	0.667	0.674	0.680	0.672
107.5	0.762	0.742	0.722	0.702	0.687	0.695	0.703	0.713	0.722	0.719
110.0	0.793	0.785	0.777	0.767	0.758	0.756	0.755	0.754	0.754	0.764
112.5	0.839	0.836	0.834	0.832	0.831	0.829	0.828	0.826	0.826	0.825
115.0	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.867
117.5	0.915	0.922	0.929	0.935	0.936	0.925	0.914	0.905	0.898	0.897
120.0	0.990	1.005	1.021	1.036	1.041	1.022	1.004	0.985	0.971	0.977
122.5	1.053	1.049	1.046	1.046	1.047	1.048	1.047	1.044	1.043	1.053
125.0	1.124	1.114	1.103	1.091	1.089	1.103	1.117	1.132	1.143	1.134
127.5	1.293	1.295	1.298	1.300	1.302	1.305	1.309	1.315	1.318	1.306
130.0	1.564	1.582	1.599	1.616	1.622	1.615	1.608	1.602	1.598	1.594
132.5	2.157	2.157	2.159	2.165	2.165	2.157	2.151	2.146	2.140	2.125
135.0	3.148	3.110	3.077	3.048	3.042	3.053	3.066	3.080	3.084	3.056
137.5	4.785	4.725	4.668	4.615	4.600	4.614	4.634	4.658	4.665	4.620
140.0	6.962	6.907	6.857	6.814	6.813	6.840	6.872	6.910	6.922	6.872
142.5	9.574	9.503	9.440	9.383	9.386	9.419	9.458	9.505	9.521	9.477
145.0	12.615	12.542	12.477	12.419	12.400	12.403	12.416	12.440	12.445	12.414
147.5	16.100	16.020	15.949	15.888	15.789	15.695	15.615	15.548	15.529	15.569
150.0	19.761	19.729	19.701	19.678	19.556	19.433	19.317	19.210	19.186	19.258
152.5	24.006	23.907	23.827	23.762	23.675	23.597	23.530	23.474	23.458	23.481
155.0	29.106	29.009	28.917	28.825	28.711	28.612	28.528	28.459	28.402	28.360
157.5	38.114	37.956	37.819	37.649	37.378	37.139	36.931	36.755	36.567	36.387
160.0	50.646	50.285	49.975	49.673	49.362	49.082	48.832	48.614	48.493	48.421
162.5	62.203	61.857	61.527	61.236	60.978	60.746	60.538	60.357	60.332	60.357
165.0	70.798	70.504	70.239	70.047	69.873	69.717	69.578	69.458	69.288	69.139
167.5	76.369	75.979	75.583	75.186	74.818	74.477	74.158	73.876	73.657	73.443
170.0	78.822	78.354	77.743	77.140	76.543	75.952	75.367	75.017	74.843	74.669
172.5	77.587	77.189	76.778	76.355	75.921	75.478	75.067	75.015	74.960	74.902
175.0	72.790	72.733	72.660	72.569	72.464	72.375	72.425	72.465	72.496	72.519
177.5	68.293	68.316	68.353	68.411	68.466	68.516	68.564	68.608	68.649	68.687
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

**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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9478.038	9466.655	9456.603	9468.281	9481.294	9483.988	9478.482	9474.338	9483.634	9498.183
5.0	9032.385	9037.916	9049.138	9068.981	9061.110	9078.298	9063.000	9067.594	9095.365	9112.048
7.5	8302.209	8322.543	8340.021	8376.968	8400.155	8359.334	8334.720	8389.210	8425.385	8396.930
10.0	7388.051	7417.586	7442.021	7469.474	7491.767	7481.455	7447.047	7419.729	7464.577	7504.294
12.5	6350.783	6383.416	6411.256	6432.002	6447.861	6450.036	6422.976	6391.559	6393.269	6429.084
15.0	5282.274	5313.747	5340.907	5356.250	5367.168	5372.601	5352.591	5328.529	5304.492	5335.776
17.5	4296.312	4312.129	4324.589	4335.925	4343.485	4347.244	4335.174	4318.072	4297.531	4311.245
20.0	3436.708	3434.050	3428.323	3436.690	3441.967	3444.131	3445.027	3444.174	3441.418	3445.264
22.5	2685.300	2682.850	2677.966	2684.200	2687.993	2689.338	2699.824	2713.244	2724.119	2728.542
25.0	2079.095	2077.105	2073.231	2078.256	2081.398	2082.651	2090.915	2103.023	2113.133	2119.374
27.5	1603.488	1601.570	1598.227	1602.489	1605.316	1606.706	1615.684	1631.004	1645.197	1657.101
30.0	1237.520	1235.011	1231.428	1235.092	1237.674	1239.169	1247.180	1261.695	1274.599	1285.770
32.5	968.125	965.062	961.277	962.124	962.183	961.396	964.014	971.112	977.328	982.645
35.0	768.489	766.890	764.659	762.435	759.635	756.274	756.503	762.173	767.191	771.542
37.5	609.578	609.965	609.936	609.010	607.675	605.944	606.293	610.363	613.942	617.010
40.0	498.565	498.349	497.830	498.074	498.022	497.687	498.279	500.886	503.154	505.071
42.5	417.336	416.881	416.206	417.313	418.206	418.891	419.892	421.812	423.502	424.958

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CANDELA TABULATION - (Cont.)

45.0	358.263	357.597	356.773	362.917	369.013	375.176	379.971	380.943	381.774	382.434
47.5	312.974	312.122	311.136	320.498	329.635	338.460	344.475	343.497	342.355	341.069
50.0	274.616	273.892	273.055	276.796	280.421	283.929	286.744	287.671	288.503	289.247
52.5	242.770	242.385	241.909	245.055	248.105	251.051	253.518	254.591	255.551	256.395
55.0	216.797	216.532	216.194	218.613	220.951	223.203	225.151	226.186	227.152	228.056
57.5	193.906	193.623	193.267	195.226	197.112	198.922	200.653	202.335	203.978	205.588
60.0	173.535	173.627	173.663	175.314	176.909	178.449	180.026	181.993	183.881	185.685
62.5	157.072	157.329	157.540	159.220	160.856	162.448	164.009	165.578	167.098	168.568
65.0	137.442	137.354	137.185	140.043	142.835	145.587	148.201	150.016	151.805	153.578
67.5	110.901	110.231	109.476	112.960	116.341	119.593	122.612	124.952	127.203	129.371
70.0	86.985	86.902	86.751	88.500	90.183	91.800	93.472	96.065	98.573	100.992
72.5	59.932	60.230	60.415	61.736	62.937	64.015	65.175	68.209	71.204	74.182
75.0	32.414	32.591	32.721	33.709	34.650	35.544	36.585	39.636	42.517	45.197
77.5	18.222	18.340	18.419	19.156	19.845	20.482	21.108	22.300	23.458	24.586
80.0	8.022	8.073	8.104	8.399	8.673	8.926	9.199	10.117	10.967	11.736
82.5	3.425	3.435	3.438	3.599	3.751	3.893	4.021	4.103	4.169	4.217
85.0	1.684	1.689	1.690	1.736	1.778	1.817	1.851	1.836	1.818	1.797
87.5	0.878	0.880	0.881	0.902	0.921	0.938	0.952	0.951	0.949	0.946
90.0	0.519	0.520	0.520	0.520	0.519	0.518	0.516	0.525	0.532	0.538
92.5	0.463	0.462	0.462	0.462	0.463	0.463	0.464	0.457	0.450	0.442
95.0	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.496	0.486	0.477
97.5	0.521	0.528	0.535	0.528	0.521	0.514	0.506	0.506	0.506	0.506
100.0	0.557	0.567	0.578	0.567	0.557	0.547	0.537	0.538	0.539	0.540
102.5	0.607	0.607	0.607	0.607	0.607	0.608	0.609	0.617	0.626	0.637
105.0	0.664	0.657	0.650	0.650	0.650	0.650	0.650	0.659	0.669	0.677
107.5	0.715	0.712	0.708	0.701	0.694	0.688	0.681	0.681	0.683	0.684
110.0	0.774	0.784	0.795	0.784	0.774	0.764	0.754	0.754	0.755	0.756
112.5	0.824	0.824	0.824	0.824	0.824	0.825	0.826	0.826	0.828	0.829
115.0	0.867	0.867	0.867	0.874	0.881	0.889	0.897	0.892	0.885	0.877
117.5	0.896	0.896	0.896	0.913	0.931	0.949	0.967	0.955	0.939	0.923
120.0	0.983	0.990	0.997	1.000	1.004	1.008	1.011	1.009	1.008	1.008
122.5	1.062	1.073	1.083	1.066	1.048	1.031	1.014	1.025	1.043	1.060
125.0	1.127	1.119	1.112	1.102	1.092	1.083	1.074	1.076	1.079	1.082
127.5	1.294	1.282	1.272	1.265	1.259	1.254	1.249	1.242	1.236	1.232
130.0	1.591	1.590	1.589	1.580	1.571	1.564	1.558	1.555	1.554	1.554
132.5	2.113	2.103	2.095	2.103	2.113	2.125	2.140	2.139	2.135	2.132
135.0	3.031	3.009	2.990	2.995	3.003	3.014	3.027	3.034	3.040	3.051
137.5	4.581	4.548	4.522	4.488	4.459	4.436	4.417	4.450	4.510	4.578
140.0	6.828	6.791	6.761	6.705	6.655	6.613	6.577	6.621	6.703	6.791
142.5	9.440	9.411	9.391	9.345	9.307	9.277	9.256	9.290	9.358	9.435
145.0	12.390	12.374	12.366	12.335	12.312	12.298	12.293	12.318	12.362	12.413
147.5	15.615	15.669	15.732	15.708	15.694	15.690	15.695	15.702	15.715	15.738
150.0	19.342	19.439	19.546	19.471	19.405	19.349	19.301	19.307	19.364	19.433
152.5	23.516	23.563	23.621	23.537	23.466	23.408	23.364	23.385	23.474	23.573
155.0	28.334	28.325	28.330	28.350	28.384	28.435	28.501	28.575	28.650	28.741
157.5	36.238	36.119	36.030	36.184	36.370	36.587	36.837	37.070	37.236	37.431
160.0	48.376	48.362	48.382	48.603	48.859	49.150	49.475	49.791	50.013	50.274
162.5	60.412	60.494	60.603	60.707	60.834	60.982	61.151	61.350	61.647	61.972
165.0	69.008	68.894	68.794	68.983	69.189	69.417	69.669	69.950	70.313	70.697
167.5	73.233	73.028	72.825	73.474	74.129	74.795	75.474	76.170	76.644	77.058
170.0	74.496	74.324	74.154	74.970	75.787	76.606	77.425	78.243	78.936	79.472
172.5	74.843	74.781	74.718	75.183	75.643	76.098	76.542	76.975	77.394	77.817
175.0	72.533	72.539	72.536	72.657	72.770	72.874	72.970	73.056	73.132	73.198
177.5	68.721	68.752	68.780	68.802	68.821	68.836	68.847	68.855	68.858	68.856
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

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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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9513.259	9528.752	9534.220	9537.165	9541.074	9545.883	9551.544	9555.389	9550.581	9546.781
5.0	9118.972	9139.046	9174.325	9211.916	9226.344	9203.971	9192.214	9187.519	9188.327	9189.769
7.5	8366.055	8374.481	8381.048	8403.415	8434.415	8463.750	8462.181	8458.725	8446.993	8455.358
10.0	7518.883	7518.087	7517.341	7509.970	7496.923	7483.551	7513.415	7541.037	7566.258	7598.292
12.5	6460.007	6481.109	6495.380	6505.897	6493.782	6470.503	6444.556	6467.944	6523.524	6579.670
15.0	5362.403	5383.390	5401.111	5413.808	5422.617	5405.910	5383.233	5357.644	5363.236	5381.878
17.5	4333.202	4351.052	4366.291	4378.691	4387.200	4386.042	4368.032	4347.116	4323.445	4334.405
20.0	3452.989	3456.190	3458.320	3469.100	3476.480	3480.495	3468.174	3450.867	3430.797	3421.234
22.5	2722.884	2714.814	2704.373	2712.376	2718.506	2721.842	2723.138	2723.876	2723.997	2723.677
25.0	2115.828	2110.430	2103.210	2106.067	2110.899	2113.501	2117.749	2132.947	2147.146	2160.452
27.5	1650.652	1642.252	1631.820	1629.629	1633.738	1636.186	1636.861	1642.262	1644.175	1642.674
30.0	1279.352	1271.741	1263.630	1260.776	1265.069	1268.134	1269.979	1270.774	1270.189	1268.166
32.5	983.084	982.109	980.286	979.680	983.399	986.079	987.714	988.241	987.719	986.193
35.0	773.883	775.433	776.581	777.427	777.844	777.174	775.375	774.043	773.457	772.062
37.5	619.766	622.031	623.702	624.575	622.233	619.354	615.939	613.454	612.911	611.788
40.0	506.431	507.299	507.758	507.798	504.884	501.452	497.551	494.302	493.923	493.121
42.5	425.516	425.380	424.946	424.205	422.034	419.587	417.012	414.580	413.289	411.529
45.0	382.569	382.308	381.909	381.362	381.538	381.895	382.269	382.534	380.369	377.847
47.5	339.339	337.129	334.719	332.114	329.383	326.293	322.780	318.830	316.264	313.922
50.0	289.262	288.512	287.725	286.911	284.522	281.318	277.956	274.434	274.081	274.019
52.5	257.038	257.524	257.996	258.468	256.555	253.233	249.853	246.416	246.154	246.568
55.0	228.827	229.367	229.749	229.963	228.670	226.431	224.254	222.154	222.272	223.091
57.5	206.557	206.398	206.162	205.849	204.514	202.216	199.753	197.118	197.027	198.155
60.0	186.766	186.516	186.216	185.868	184.161	180.974	177.679	174.271	174.224	176.289
62.5	169.360	168.618	167.757	166.767	164.341	160.132	155.780	151.279	151.036	154.229
65.0	154.390	152.612	150.746	148.785	145.466	140.109	134.609	128.958	127.564	130.317
67.5	130.537	128.819	127.103	125.406	122.550	117.579	112.673	107.848	106.590	109.522
70.0	102.483	100.828	99.000	96.984	94.649	92.080	89.671	87.448	87.227	89.661
72.5	76.353	75.118	73.957	72.894	71.736	69.980	68.105	66.104	65.411	67.266
75.0	47.355	47.929	48.474	49.002	49.183	48.341	47.608	47.000	47.293	49.349
77.5	25.692	26.772	27.773	28.693	29.288	28.836	28.260	27.556	27.299	28.621
80.0	12.390	12.787	13.101	13.329	13.403	13.136	12.887	12.662	12.736	13.789
82.5	4.254	4.360	4.442	4.497	4.553	4.770	4.955	5.108	5.277	5.618
85.0	1.777	1.812	1.840	1.862	1.886	1.981	2.052	2.099	2.121	2.131
87.5	0.942	0.954	0.963	0.970	0.975	0.994	1.010	1.022	1.031	1.022
90.0	0.542	0.546	0.547	0.547	0.544	0.547	0.545	0.540	0.531	0.529
92.5	0.433	0.442	0.453	0.465	0.478	0.480	0.483	0.486	0.489	0.481
95.0	0.469	0.480	0.489	0.498	0.506	0.517	0.530	0.545	0.561	0.548
97.5	0.506	0.506	0.506	0.506	0.506	0.522	0.540	0.558	0.576	0.562
100.0	0.542	0.535	0.527	0.518	0.507	0.522	0.540	0.557	0.575	0.575
102.5	0.648	0.637	0.623	0.610	0.597	0.605	0.615	0.624	0.633	0.637
105.0	0.685	0.685	0.686	0.688	0.693	0.687	0.677	0.666	0.653	0.650
107.5	0.686	0.695	0.704	0.713	0.720	0.717	0.712	0.709	0.706	0.709
110.0	0.758	0.752	0.744	0.735	0.725	0.730	0.743	0.757	0.773	0.772
112.5	0.831	0.826	0.820	0.815	0.812	0.812	0.810	0.806	0.799	0.802
115.0	0.869	0.867	0.867	0.867	0.867	0.870	0.878	0.888	0.901	0.906
117.5	0.907	0.904	0.906	0.908	0.911	0.917	0.925	0.932	0.937	0.937
120.0	1.010	1.007	1.001	0.995	0.987	0.985	0.988	0.991	0.994	0.991
122.5	1.077	1.077	1.070	1.063	1.058	1.051	1.042	1.031	1.019	1.010
125.0	1.083	1.089	1.099	1.109	1.122	1.127	1.124	1.123	1.124	1.123
127.5	1.229	1.237	1.253	1.268	1.282	1.294	1.302	1.311	1.320	1.325
130.0	1.554	1.554	1.554	1.554	1.553	1.560	1.583	1.608	1.635	1.659

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CANDELA TABULATION - (Cont.)

132.5	2.132	2.134	2.138	2.144	2.152	2.166	2.189	2.211	2.232	2.252
135.0	3.064	3.077	3.089	3.103	3.121	3.143	3.177	3.216	3.258	3.304
137.5	4.655	4.711	4.732	4.757	4.785	4.816	4.844	4.871	4.897	4.922
140.0	6.883	6.946	6.956	6.972	6.994	7.020	7.036	7.058	7.085	7.117
142.5	9.520	9.589	9.607	9.631	9.662	9.699	9.725	9.756	9.793	9.835
145.0	12.468	12.523	12.577	12.642	12.720	12.811	12.852	12.893	12.941	12.996
147.5	15.771	15.825	15.944	16.074	16.214	16.364	16.441	16.500	16.568	16.645
150.0	19.516	19.613	19.744	19.886	20.037	20.197	20.308	20.396	20.496	20.607
152.5	23.682	23.800	23.968	24.152	24.350	24.563	24.730	24.844	24.968	25.100
155.0	28.847	28.969	29.222	29.516	29.830	30.166	30.465	30.655	30.861	31.083
157.5	37.656	37.911	38.268	38.680	39.114	39.566	40.047	40.677	41.362	42.102
160.0	50.572	50.909	51.314	51.784	52.296	52.849	53.444	54.271	55.176	56.116
162.5	62.327	62.713	63.094	63.405	63.729	64.065	64.412	65.012	65.907	66.846
165.0	71.098	71.518	71.955	72.304	72.683	73.100	73.554	74.043	74.865	75.677
167.5	77.493	77.949	78.429	78.904	79.374	79.863	80.372	80.901	81.438	81.965
170.0	80.013	80.561	81.115	81.676	82.194	82.721	83.267	83.831	84.417	84.952
172.5	78.233	78.637	79.029	79.410	79.777	80.336	80.941	81.558	82.187	82.831
175.0	73.320	73.439	73.540	73.621	73.681	73.720	73.734	74.036	74.463	74.870
177.5	68.850	68.839	68.823	68.818	68.821	68.822	68.819	68.815	68.808	68.799
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

**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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9543.669	9541.200	9539.332	9538.030	9537.260	9536.993	9537.203	9537.866	9538.960	9540.465
5.0	9191.929	9194.870	9194.670	9194.952	9197.095	9201.060	9206.810	9215.275	9226.154	9242.628
7.5	8459.869	8460.666	8477.148	8506.645	8538.880	8573.943	8578.194	8576.363	8575.083	8574.439
10.0	7587.203	7587.165	7573.021	7554.672	7535.356	7529.907	7581.865	7635.153	7689.939	7723.647
12.5	6636.364	6574.723	6547.325	6521.639	6502.769	6482.871	6461.515	6461.443	6529.075	6596.430
15.0	5393.346	5405.383	5411.417	5414.187	5413.876	5401.073	5381.718	5360.287	5336.961	5408.552
17.5	4344.141	4382.756	4362.327	4366.658	4367.820	4365.953	4351.612	4332.899	4311.989	4294.519
20.0	3427.393	3443.439	3440.525	3445.358	3447.444	3446.677	3441.450	3425.821	3407.990	3388.076
22.5	2713.912	2700.691	2691.305	2687.259	2689.429	2687.363	2681.090	2673.242	2666.172	2659.410
25.0	2158.118	2146.594	2134.386	2120.535	2105.994	2091.243	2076.509	2066.480	2068.398	2068.172
27.5	1634.569	1619.248	1608.891	1599.963	1597.008	1595.799	1593.173	1589.170	1589.048	1587.735
30.0	1263.819	1253.271	1253.768	1236.439	1231.336	1230.214	1228.084	1224.977	1222.952	1220.941
32.5	983.675	974.450	971.630	958.585	952.397	952.000	950.823	948.886	947.538	947.940
35.0	769.861	763.215	759.552	751.354	746.544	746.957	746.315	744.692	742.905	743.878
37.5	610.087	608.281	609.289	606.929	606.056	603.314	600.273	597.260	594.296	592.853
40.0	491.898	490.008	488.910	487.288	486.758	487.243	487.785	487.847	487.431	486.491
42.5	409.289	408.010	409.847	412.483	414.871	415.584	414.928	413.840	412.316	411.103
45.0	374.949	372.396	371.739	369.069	367.040	365.010	362.823	360.873	359.173	358.693
47.5	311.787	310.234	311.039	313.141	315.393	317.251	318.001	318.624	319.123	319.624
50.0	273.843	273.751	276.864	280.377	283.856	286.755	287.272	287.672	287.957	287.555
52.5	246.941	247.276	250.816	254.420	257.793	260.651	260.518	260.326	260.080	259.402
55.0	223.881	224.645	226.749	228.967	231.254	233.615	233.986	234.365	234.763	235.024
57.5	199.268	200.371	203.135	206.527	209.939	213.347	214.206	214.679	215.016	215.217
60.0	178.382	180.510	183.813	187.563	191.360	195.207	195.959	196.040	196.115	196.185
62.5	157.491	160.832	164.929	169.289	173.914	178.877	180.512	180.954	181.411	181.887
65.0	132.937	135.421	140.730	148.338	156.049	163.808	166.740	167.316	167.926	168.574
67.5	112.423	115.299	121.120	129.182	136.717	143.770	146.492	146.641	146.920	147.340
70.0	91.981	94.183	97.540	103.003	106.221	110.246	112.963	114.670	116.407	118.177
72.5	69.034	70.715	73.005	77.082	79.839	83.152	85.926	87.956	89.683	91.102
75.0	51.366	53.344	55.648	59.158	60.818	63.265	64.854	65.187	65.510	65.826
77.5	29.830	30.925	32.374	35.649	37.737	40.213	41.908	42.255	42.443	42.471

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CANDELA TABULATION - (Cont.)

80.0	14.749	15.616	16.598	18.638	19.845	21.258	22.163	22.106	22.029	21.934
82.5	5.837	5.928	6.003	6.792	7.333	7.914	8.366	8.655	8.853	8.960
85.0	2.100	2.027	1.928	2.012	2.098	2.199	2.296	2.433	2.543	2.626
87.5	1.008	0.988	0.968	1.017	1.043	1.076	1.102	1.125	1.142	1.154
90.0	0.527	0.523	0.518	0.524	0.533	0.543	0.549	0.572	0.592	0.610
92.5	0.470	0.455	0.436	0.433	0.439	0.443	0.448	0.465	0.481	0.494
95.0	0.534	0.519	0.505	0.506	0.506	0.506	0.506	0.506	0.506	0.506
97.5	0.544	0.526	0.508	0.506	0.509	0.509	0.507	0.506	0.506	0.506
100.0	0.574	0.574	0.576	0.564	0.551	0.537	0.524	0.524	0.529	0.533
102.5	0.640	0.644	0.647	0.637	0.621	0.607	0.596	0.596	0.601	0.605
105.0	0.650	0.650	0.650	0.650	0.653	0.653	0.651	0.650	0.650	0.650
107.5	0.712	0.716	0.719	0.711	0.695	0.681	0.669	0.668	0.672	0.677
110.0	0.759	0.745	0.729	0.722	0.730	0.735	0.737	0.740	0.744	0.749
112.5	0.815	0.832	0.853	0.858	0.842	0.828	0.816	0.811	0.809	0.806
115.0	0.899	0.889	0.876	0.867	0.870	0.871	0.869	0.862	0.850	0.840
117.5	0.935	0.935	0.936	0.932	0.918	0.907	0.901	0.900	0.903	0.905
120.0	0.979	0.966	0.950	0.945	0.964	0.979	0.989	0.992	0.981	0.974
122.5	1.007	1.007	1.008	1.007	0.995	0.985	0.977	0.974	0.990	1.001
125.0	1.115	1.105	1.093	1.083	1.095	1.108	1.120	1.132	1.128	1.124
127.5	1.318	1.311	1.305	1.300	1.319	1.336	1.352	1.366	1.367	1.367
130.0	1.658	1.658	1.659	1.660	1.677	1.693	1.708	1.723	1.744	1.770
132.5	2.264	2.278	2.293	2.310	2.329	2.348	2.367	2.386	2.433	2.491
135.0	3.311	3.317	3.322	3.326	3.373	3.429	3.489	3.552	3.645	3.753
137.5	4.988	5.068	5.156	5.253	5.334	5.405	5.477	5.550	5.634	5.726
140.0	7.197	7.292	7.389	7.489	7.583	7.664	7.748	7.834	7.924	8.019
142.5	9.915	10.016	10.121	10.230	10.221	10.444	10.547	10.654	10.758	10.847
145.0	13.102	13.252	13.412	13.582	13.624	13.853	13.964	14.079	14.201	14.259
147.5	16.769	16.960	17.160	17.369	17.468	17.664	17.780	17.918	18.077	18.154
150.0	20.731	20.862	20.993	21.124	21.171	21.539	21.821	22.113	22.415	22.627
152.5	25.242	25.403	25.575	25.758	25.876	26.340	26.753	27.191	27.653	28.079
155.0	31.322	31.580	31.852	32.138	32.380	33.232	34.086	34.946	35.812	36.678
157.5	42.901	43.604	44.212	44.849	45.507	46.338	47.223	48.155	49.133	50.157
160.0	57.092	58.061	58.902	59.789	60.723	61.501	62.272	63.077	63.909	64.769
162.5	67.831	68.864	69.662	70.399	71.165	71.650	72.613	73.367	74.149	74.956
165.0	76.492	77.308	78.098	78.771	79.465	80.079	80.754	81.409	82.118	82.848
167.5	82.498	83.035	83.577	84.159	84.826	85.520	86.008	86.709	87.293	87.879
170.0	85.419	85.903	86.406	86.929	87.467	87.983	88.486	88.824	89.178	89.545
172.5	83.491	84.004	84.512	85.039	85.588	86.161	86.724	87.133	87.158	87.199
175.0	75.259	75.629	75.978	76.307	76.575	76.804	77.021	77.225	77.418	77.599
177.5	68.788	68.775	68.761	68.745	68.774	68.800	68.802	68.782	68.737	68.668
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

**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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9542.364	9544.640	9547.277	9550.261	9553.578	9557.215	9561.162	9565.405	9569.934	9574.737
5.0	9223.917	9218.780	9214.767	9209.189	9202.166	9196.665	9192.664	9190.142	9189.078	9188.251
7.5	8577.290	8583.571	8597.154	8581.963	8576.418	8567.792	8560.202	8553.904	8548.935	8545.325
10.0	7714.978	7706.514	7698.379	7693.243	7731.621	7695.745	7692.939	7688.391	7680.269	7672.133
12.5	6663.705	6708.660	6714.745	6723.727	6735.675	6737.142	6715.269	6693.776	6672.789	6652.429
15.0	5481.486	5552.573	5618.787	5623.684	5627.607	5630.727	5633.973	5616.498	5597.865	5579.334
17.5	4367.527	4436.991	4503.107	4558.483	4558.671	4557.255	4593.657	4558.394	4547.279	4533.840
20.0	3399.199	3462.629	3522.023	3577.547	3606.712	3603.523	3611.658	3603.832	3602.475	3594.748
22.5	2653.060	2692.885	2736.089	2773.385	2804.918	2804.734	2799.150	2801.639	2803.467	2801.532
25.0	2065.871	2075.693	2103.470	2128.335	2150.384	2160.064	2156.120	2149.298	2142.106	2136.727

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CANDELA TABULATION - (Cont.)

27.5	1584.793	1580.177	1568.141	1547.025	1516.920	1481.322	1476.852	1497.855	1516.824	1538.236
30.0	1217.735	1213.373	1217.773	1230.775	1250.025	1275.534	1288.459	1298.567	1286.647	1282.286
32.5	948.165	948.244	957.291	973.772	987.692	999.090	1000.462	999.205	993.768	991.779
35.0	743.522	741.849	743.051	754.783	765.809	776.159	781.948	779.895	777.842	776.969
37.5	591.028	588.803	587.180	598.142	608.095	617.058	624.125	621.779	621.303	620.810
40.0	485.205	483.606	481.705	489.130	497.035	504.250	510.791	509.222	508.707	508.017
42.5	409.977	408.590	406.950	411.552	418.056	424.078	429.626	429.332	428.293	427.249
45.0	359.344	360.269	361.476	364.461	367.868	370.424	372.135	371.321	369.899	368.603
47.5	319.876	319.555	318.657	318.964	321.350	323.903	326.629	327.362	326.100	325.173
50.0	285.500	283.212	280.690	279.937	282.987	285.893	288.658	290.449	290.816	291.222
52.5	256.941	254.567	252.284	251.033	252.941	254.555	255.880	256.755	257.306	258.078
55.0	233.157	231.144	228.986	227.093	228.219	229.233	230.137	230.942	232.754	232.874
57.5	213.105	211.023	209.026	207.129	207.750	208.209	208.539	208.707	210.220	210.624
60.0	194.951	193.538	192.113	190.678	191.152	191.792	192.438	193.091	193.845	193.629
62.5	181.182	180.214	179.284	178.394	178.511	178.709	178.775	178.713	179.157	178.932
65.0	167.931	166.724	165.456	164.128	163.902	164.126	164.424	164.798	165.623	164.822
67.5	145.845	143.141	140.337	137.435	136.531	136.805	137.241	137.846	139.814	140.959
70.0	117.303	114.312	111.236	108.078	107.792	109.740	111.878	114.210	115.734	114.216
72.5	89.372	84.308	78.798	72.838	70.552	72.181	73.841	75.536	77.811	79.295
75.0	63.610	57.988	52.459	47.030	44.632	45.876	46.797	47.396	48.305	49.481
77.5	40.864	36.658	32.719	29.053	27.147	27.926	28.642	29.299	30.495	32.218
80.0	21.267	19.282	17.446	15.766	14.849	15.424	15.908	16.300	16.998	18.290
82.5	8.811	8.076	7.413	6.824	6.498	6.832	7.104	7.313	7.581	8.138
85.0	2.673	2.657	2.625	2.576	2.542	2.630	2.633	2.549	2.424	2.608
87.5	1.160	1.171	1.178	1.181	1.185	1.212	1.228	1.234	1.233	1.259
90.0	0.624	0.636	0.641	0.637	0.626	0.640	0.649	0.652	0.650	0.652
92.5	0.506	0.506	0.506	0.506	0.506	0.500	0.486	0.464	0.435	0.436
95.0	0.506	0.506	0.506	0.506	0.506	0.503	0.501	0.502	0.506	0.476
97.5	0.506	0.514	0.525	0.539	0.555	0.551	0.540	0.526	0.510	0.492
100.0	0.538	0.549	0.561	0.570	0.577	0.565	0.547	0.529	0.511	0.497
102.5	0.610	0.615	0.619	0.624	0.629	0.622	0.609	0.596	0.583	0.566
105.0	0.650	0.650	0.650	0.650	0.650	0.640	0.622	0.604	0.586	0.572
107.5	0.682	0.686	0.691	0.696	0.701	0.697	0.684	0.671	0.658	0.638
110.0	0.754	0.759	0.763	0.768	0.773	0.758	0.714	0.665	0.611	0.582
112.5	0.800	0.795	0.795	0.795	0.795	0.781	0.742	0.706	0.673	0.653
115.0	0.833	0.831	0.835	0.840	0.845	0.840	0.809	0.778	0.747	0.721
117.5	0.904	0.900	0.895	0.887	0.877	0.863	0.842	0.824	0.808	0.795
120.0	0.972	0.972	0.959	0.946	0.933	0.920	0.907	0.894	0.881	0.866
122.5	1.008	1.010	1.003	0.997	0.994	0.993	0.966	0.936	0.903	0.868
125.0	1.120	1.117	1.121	1.123	1.124	1.122	1.111	1.102	1.096	1.085
127.5	1.368	1.369	1.362	1.352	1.339	1.324	1.354	1.401	1.457	1.509
130.0	1.798	1.830	1.851	1.870	1.893	1.918	1.955	1.991	2.020	2.029
132.5	2.551	2.612	2.650	2.672	2.690	2.703	2.745	2.815	2.890	2.953
135.0	3.859	3.962	4.041	4.096	4.151	4.205	4.238	4.231	4.201	4.132
137.5	5.820	5.913	5.994	6.051	6.108	6.163	6.185	6.119	6.043	5.941
140.0	8.110	8.197	8.274	8.328	8.378	8.425	8.458	8.420	8.384	8.343
142.5	10.935	11.023	11.111	11.250	11.404	11.571	11.753	11.649	11.503	11.330
145.0	14.317	14.367	14.410	14.623	14.876	15.144	15.426	15.468	15.440	15.428
147.5	18.226	18.311	18.409	18.610	18.847	19.063	19.258	19.529	19.931	20.397
150.0	22.790	22.964	23.150	23.346	23.544	23.744	23.943	24.358	25.412	26.555
152.5	28.409	28.747	29.093	29.445	29.792	30.149	30.516	30.891	32.757	34.783
155.0	37.502	38.397	39.364	40.405	41.331	42.229	43.145	44.077	45.588	47.386
157.5	51.349	52.611	53.869	55.120	56.372	57.692	59.094	60.578	61.946	62.319
160.0	65.644	66.498	67.380	68.289	69.225	70.411	71.652	72.911	74.185	74.270
162.5	75.790	76.646	77.537	78.468	79.440	80.456	81.497	82.532	83.558	84.575
165.0	83.599	84.371	85.179	85.999	86.827	87.662	88.485	89.289	90.111	90.951

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CANDELA TABULATION - (Cont.)

167.5	88.476	89.081	89.696	90.280	90.851	91.427	92.008	92.595	93.195	93.803
170.0	89.964	90.404	90.867	91.352	91.862	92.277	92.705	93.149	93.607	94.060
172.5	87.239	87.279	87.365	87.521	87.694	87.883	88.093	88.310	88.385	88.478
175.0	77.751	77.796	77.783	77.745	77.683	77.597	77.485	77.348	77.345	77.330
177.5	68.574	68.455	68.309	68.137	67.939	67.755	67.833	67.930	68.016	68.093
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

**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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9579.806	9583.712	9582.475	9561.681	9550.434	9539.662	9529.368	9519.556	9510.226	9501.379
5.0	9185.735	9183.205	9181.570	9180.824	9180.959	9181.967	9182.697	9181.914	9169.280	9158.019
7.5	8538.485	8532.539	8527.889	8524.558	8522.562	8518.609	8513.763	8510.631	8509.202	8509.461
10.0	7665.138	7659.357	7654.578	7645.532	7637.715	7631.420	7626.687	7621.790	7617.485	7613.434
12.5	6642.100	6633.867	6626.526	6620.177	6613.085	6603.239	6594.795	6587.827	6582.406	6576.852
15.0	5561.040	5550.328	5543.754	5537.682	5532.236	5526.259	5515.915	5506.456	5497.991	5490.627
17.5	4520.125	4506.270	4500.598	4496.957	4493.302	4489.771	4478.388	4453.859	4427.800	4400.435
20.0	3586.461	3577.736	3569.904	3569.010	3567.666	3566.006	3564.160	3554.851	3546.329	3540.674
22.5	2798.176	2794.098	2789.407	2793.007	2802.777	2813.977	2826.649	2833.034	2823.450	2812.356
25.0	2136.414	2140.233	2148.161	2160.988	2177.598	2193.177	2207.841	2221.705	2211.299	2200.415
27.5	1579.378	1612.888	1640.770	1663.220	1659.172	1645.904	1626.461	1601.143	1570.844	1538.635
30.0	1281.905	1281.830	1280.376	1277.621	1271.864	1269.351	1272.595	1281.434	1291.239	1296.936
32.5	989.735	988.175	986.908	985.957	991.331	1006.903	1020.966	1033.603	1043.167	1042.794
35.0	777.005	780.836	784.826	788.996	793.904	801.611	808.020	813.199	817.220	817.682
37.5	620.360	626.710	632.547	637.902	642.801	645.118	646.893	648.281	649.318	649.322
40.0	507.066	511.243	515.795	519.950	523.730	525.322	526.082	526.559	526.779	526.013
42.5	426.023	428.258	431.693	434.870	437.804	439.002	439.076	438.942	438.617	437.496
45.0	367.249	368.322	371.119	373.747	376.215	377.277	376.878	376.343	375.683	374.721
47.5	324.452	325.217	327.537	329.655	331.580	332.453	331.673	330.796	329.830	328.593
50.0	291.597	292.261	293.693	295.267	296.984	298.144	297.195	296.232	295.260	294.034
52.5	258.859	259.944	262.044	263.916	265.571	266.761	266.400	266.254	266.322	266.520
55.0	233.815	234.730	235.852	237.011	238.209	239.348	239.356	239.135	238.750	238.211
57.5	211.479	212.212	213.500	214.683	215.762	216.743	216.513	216.316	216.226	216.244
60.0	193.852	194.047	194.686	195.272	195.752	196.132	196.234	196.284	196.322	196.352
62.5	179.150	179.423	179.634	179.781	179.882	179.942	179.615	179.050	178.346	177.511
65.0	164.981	165.435	165.490	165.471	165.622	165.942	164.952	163.194	161.306	159.296
67.5	142.394	143.571	144.127	144.617	145.327	146.259	144.677	141.294	137.835	134.307
70.0	113.820	113.785	114.940	116.971	119.204	121.640	120.630	116.357	111.989	107.533
72.5	81.085	82.669	84.921	88.271	91.943	95.934	96.260	92.035	87.947	83.994
75.0	50.955	52.464	55.440	60.163	64.476	68.390	69.507	66.907	64.651	62.731
77.5	34.002	35.684	37.644	40.241	42.750	45.176	46.224	44.344	42.331	40.191
80.0	19.520	20.597	21.783	23.469	24.931	26.175	26.492	24.645	22.936	21.364
82.5	8.633	9.030	9.397	9.887	10.197	10.333	10.166	9.374	8.653	8.001
85.0	2.767	2.897	2.984	2.963	2.926	2.874	2.810	2.757	2.681	2.584
87.5	1.279	1.292	1.296	1.272	1.245	1.217	1.187	1.167	1.148	1.130
90.0	0.651	0.647	0.642	0.634	0.624	0.611	0.597	0.587	0.573	0.556
92.5	0.433	0.426	0.414	0.414	0.418	0.424	0.432	0.423	0.410	0.394
95.0	0.443	0.413	0.385	0.396	0.410	0.422	0.432	0.418	0.400	0.382
97.5	0.473	0.455	0.437	0.438	0.446	0.457	0.470	0.472	0.471	0.473
100.0	0.484	0.471	0.458	0.466	0.481	0.494	0.504	0.506	0.506	0.506
102.5	0.548	0.530	0.512	0.506	0.506	0.506	0.506	0.506	0.506	0.506
105.0	0.559	0.546	0.533	0.530	0.535	0.540	0.544	0.549	0.554	0.558
107.5	0.618	0.600	0.585	0.575	0.567	0.557	0.545	0.535	0.530	0.526
110.0	0.587	0.592	0.597	0.596	0.591	0.588	0.587	0.592	0.601	0.610
112.5	0.656	0.656	0.653	0.650	0.650	0.650	0.650	0.650	0.650	0.650

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CANDELA TABULATION - (Cont.)

115.0	0.708	0.695	0.682	0.673	0.678	0.683	0.688	0.692	0.697	0.702
117.5	0.782	0.769	0.755	0.744	0.742	0.737	0.730	0.722	0.722	0.722
120.0	0.848	0.830	0.812	0.794	0.790	0.791	0.797	0.805	0.803	0.798
122.5	0.874	0.875	0.879	0.885	0.902	0.912	0.914	0.909	0.907	0.907
125.0	1.123	1.145	1.162	1.173	1.172	1.174	1.180	1.190	1.196	1.195
127.5	1.538	1.537	1.536	1.534	1.556	1.581	1.604	1.623	1.629	1.634
130.0	2.085	2.111	2.133	2.153	2.182	2.214	2.242	2.268	2.298	2.331
132.5	3.029	3.050	3.071	3.091	3.117	3.146	3.171	3.193	3.222	3.255
135.0	4.167	4.227	4.282	4.331	4.376	4.421	4.463	4.500	4.542	4.590
137.5	5.943	6.013	6.077	6.135	6.202	6.314	6.434	6.562	6.661	6.676
140.0	8.352	8.428	8.513	8.607	8.716	8.885	9.038	9.177	9.292	9.370
142.5	11.222	11.443	11.709	11.990	12.283	12.471	12.632	12.775	12.900	13.026
145.0	15.510	15.856	16.280	16.691	17.087	17.345	17.568	17.803	18.051	18.230
147.5	21.012	21.612	22.102	22.597	23.097	23.531	23.871	24.178	24.450	24.764
150.0	27.904	29.249	29.988	30.733	31.482	32.158	32.599	33.034	33.461	33.985
152.5	36.623	39.347	40.371	41.286	42.211	43.145	43.754	44.343	44.928	45.534
155.0	48.841	50.648	51.771	52.699	53.638	54.587	55.320	55.903	56.485	57.066
157.5	62.393	62.199	62.021	62.906	63.762	64.590	65.363	66.026	66.734	67.484
160.0	73.641	72.811	71.869	71.778	72.389	73.018	73.662	74.478	75.417	76.388
162.5	83.429	81.853	80.456	78.794	79.048	79.596	80.158	80.734	81.468	82.181
165.0	91.664	89.782	87.628	85.446	83.233	83.578	84.067	84.561	85.050	85.574
167.5	94.421	95.048	93.480	91.160	88.794	86.389	85.720	86.017	86.314	86.610
170.0	94.460	94.859	95.257	95.641	93.280	90.667	88.115	85.629	84.877	85.051
172.5	88.591	88.726	88.858	88.827	88.786	88.446	88.049	87.018	85.159	83.515
175.0	77.294	77.238	77.162	77.066	76.875	76.596	76.299	75.984	76.075	76.000
177.5	68.159	68.215	68.260	68.295	68.320	68.334	68.338	68.332	68.316	68.291
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9493.012	9485.125	9477.712	9471.886	9470.036	9468.484	9467.232	9466.284	9465.643	9465.311
5.0	9147.763	9138.517	9130.288	9118.753	9100.893	9083.677	9067.137	9051.303	9036.208	9021.880
7.5	8501.649	8484.147	8467.378	8451.984	8437.995	8425.435	8412.493	8388.814	8367.748	8349.212
10.0	7611.246	7604.645	7599.051	7578.773	7557.674	7538.236	7520.507	7504.533	7489.821	7476.802
12.5	6571.736	6579.285	6563.846	6561.519	6544.698	6520.669	6498.467	6478.149	6459.775	6446.102
15.0	5484.520	5480.027	5517.764	5478.059	5481.810	5462.006	5438.477	5416.649	5396.598	5378.396
17.5	4371.994	4377.298	4413.963	4419.458	4442.469	4453.987	4434.842	4418.700	4405.514	4395.230
20.0	3537.871	3538.033	3546.252	3543.111	3547.678	3552.847	3551.737	3549.833	3548.924	3549.102
22.5	2799.931	2786.351	2781.884	2785.607	2789.581	2793.833	2793.850	2788.414	2782.876	2777.395
25.0	2190.156	2180.588	2174.211	2168.038	2167.326	2172.671	2179.164	2168.183	2158.933	2151.386
27.5	1505.036	1470.223	1459.632	1527.452	1586.571	1646.683	1701.898	1702.265	1698.998	1694.936
30.0	1304.650	1314.310	1326.501	1347.151	1345.992	1353.609	1361.229	1351.721	1337.766	1325.030
32.5	1042.437	1042.141	1041.948	1051.069	1050.780	1056.152	1061.558	1059.723	1053.125	1046.969
35.0	817.908	818.063	818.185	823.809	824.225	828.232	832.287	832.198	827.079	822.342
37.5	648.872	648.203	647.354	650.440	651.606	654.903	658.204	659.358	655.968	652.897
40.0	524.565	522.898	521.044	521.983	523.487	526.152	528.790	530.540	528.858	527.381
42.5	435.579	433.535	431.384	430.969	432.451	434.376	436.154	437.582	436.921	436.415
45.0	373.406	372.117	370.863	370.209	369.818	369.784	369.759	369.749	369.881	370.135
47.5	326.660	324.601	322.430	320.514	319.974	319.637	319.336	319.076	319.802	320.711
50.0	291.193	288.231	285.160	282.070	281.628	281.279	280.968	280.700	281.747	283.119
52.5	262.857	259.202	255.484	251.712	251.045	250.653	250.269	249.898	250.736	251.900
55.0	235.044	231.864	228.815	225.896	224.778	223.920	222.992	222.003	221.922	222.377
57.5	213.305	209.801	206.228	202.592	200.081	198.104	196.260	194.547	194.703	195.946
60.0	192.458	187.293	181.973	176.511	173.947	172.838	171.831	170.925	171.181	172.300

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CANDELA TABULATION - (Cont.)

62.5	172.722	166.144	159.441	152.621	149.608	149.036	148.485	147.957	148.391	149.897
65.0	153.833	146.263	138.623	130.918	126.901	126.132	125.487	124.964	126.145	129.370
67.5	128.611	121.312	114.176	107.201	103.771	103.937	104.162	104.444	105.960	109.131
70.0	102.497	97.110	92.001	87.159	85.360	84.741	84.758	84.649	84.884	86.035
72.5	79.995	75.878	71.899	68.055	65.848	63.782	62.624	61.639	61.610	63.436
75.0	60.296	56.401	52.535	48.701	46.731	46.113	46.046	45.924	45.827	45.899
77.5	37.825	35.312	33.055	31.045	30.045	28.536	27.713	26.962	26.287	25.666
80.0	19.783	17.750	15.723	13.707	12.560	12.205	12.096	11.973	11.774	11.241
82.5	7.352	6.450	5.677	5.032	4.769	4.536	4.402	4.273	4.156	4.104
85.0	2.458	2.249	2.055	1.877	1.806	1.740	1.700	1.662	1.628	1.638
87.5	1.111	1.076	1.043	1.014	1.011	0.964	0.935	0.907	0.880	0.873
90.0	0.534	0.507	0.478	0.448	0.433	0.427	0.424	0.420	0.417	0.427
92.5	0.377	0.371	0.367	0.363	0.361	0.361	0.361	0.361	0.361	0.361
95.0	0.364	0.361	0.361	0.361	0.361	0.367	0.370	0.374	0.377	0.376
97.5	0.477	0.472	0.463	0.452	0.436	0.432	0.429	0.424	0.418	0.407
100.0	0.506	0.493	0.474	0.456	0.437	0.426	0.414	0.404	0.396	0.406
102.5	0.506	0.504	0.503	0.504	0.506	0.506	0.506	0.506	0.506	0.496
105.0	0.563	0.558	0.545	0.530	0.512	0.506	0.506	0.506	0.506	0.506
107.5	0.521	0.516	0.510	0.507	0.506	0.511	0.515	0.518	0.522	0.522
110.0	0.619	0.620	0.612	0.601	0.587	0.578	0.578	0.578	0.578	0.570
112.5	0.650	0.643	0.624	0.606	0.588	0.587	0.589	0.587	0.582	0.578
115.0	0.706	0.710	0.712	0.717	0.722	0.704	0.668	0.636	0.608	0.597
117.5	0.722	0.718	0.701	0.683	0.662	0.659	0.664	0.667	0.668	0.669
120.0	0.790	0.782	0.785	0.790	0.795	0.799	0.790	0.783	0.777	0.778
122.5	0.910	0.915	0.924	0.932	0.939	0.956	0.969	0.979	0.987	0.994
125.0	1.190	1.179	1.196	1.213	1.228	1.247	1.250	1.253	1.257	1.266
127.5	1.641	1.649	1.647	1.639	1.625	1.630	1.665	1.698	1.727	1.753
130.0	2.362	2.392	2.393	2.383	2.370	2.369	2.399	2.428	2.452	2.475
132.5	3.284	3.309	3.328	3.345	3.363	3.399	3.434	3.465	3.494	3.520
135.0	4.632	4.671	4.704	4.733	4.757	4.811	4.880	4.948	5.012	5.070
137.5	6.671	6.646	6.662	6.743	6.822	6.934	7.045	7.154	7.258	7.358
140.0	9.460	9.563	9.662	9.723	9.766	9.844	9.984	10.153	10.299	10.424
142.5	13.131	13.214	13.297	13.489	13.687	13.736	14.190	14.325	14.442	14.541
145.0	18.382	18.522	18.647	18.979	19.306	19.431	20.068	20.270	20.449	20.607
147.5	25.134	25.520	25.922	26.394	26.875	27.123	28.065	28.400	28.705	28.980
150.0	34.685	35.378	36.064	36.783	37.525	38.004	39.124	39.592	39.974	40.328
152.5	46.423	47.307	48.184	49.076	50.011	50.723	51.767	52.347	52.758	53.160
155.0	57.885	58.785	59.680	60.568	61.527	62.380	63.293	63.998	64.541	65.092
157.5	68.314	69.234	70.152	71.067	71.842	72.494	73.017	73.532	74.285	75.016
160.0	77.391	78.146	78.808	79.433	80.029	80.673	81.184	81.650	82.169	82.707
162.5	82.864	83.493	84.015	84.565	85.141	85.710	86.122	86.634	87.056	87.412
165.0	86.095	86.623	87.144	87.633	88.120	88.603	89.052	89.341	89.643	89.956
167.5	86.946	87.301	87.664	88.027	88.293	88.559	88.823	89.155	89.356	89.613
170.0	85.267	85.526	85.729	85.911	86.094	86.286	86.524	86.791	86.992	87.043
172.5	82.095	81.115	81.262	81.402	81.534	81.627	81.674	81.743	81.833	82.140
175.0	76.041	76.053	76.077	76.114	76.166	76.218	76.254	76.344	76.495	76.713
177.5	68.256	68.213	68.161	68.103	68.037	67.965	67.888	67.808	67.725	67.641
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

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	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9465.292	9465.589	9466.206	9467.144	9462.771	9451.314	9440.121	9429.204	9418.575	9408.247
5.0	9010.978	9007.013	9004.419	9003.160	9003.204	9004.516	9007.059	9006.270	8985.030	8964.738
7.5	8333.126	8319.403	8308.706	8303.349	8298.863	8295.337	8292.856	8291.507	8288.370	8260.308

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

CANDELA TABULATION - (Cont.)

10.0	7466.027	7457.493	7451.196	7445.636	7427.630	7411.583	7397.524	7385.483	7375.487	7353.610
12.5	6436.471	6429.143	6424.142	6421.489	6410.615	6389.274	6370.201	6353.433	6339.006	6324.675
15.0	5370.036	5364.051	5360.242	5358.655	5358.636	5333.895	5311.505	5291.484	5273.869	5258.728
17.5	4382.840	4365.936	4348.533	4330.953	4313.516	4295.341	4279.480	4266.680	4256.847	4249.884
20.0	3543.842	3509.982	3479.006	3450.824	3425.344	3406.834	3394.296	3382.832	3372.610	3363.792
22.5	2772.131	2755.648	2740.153	2726.852	2715.704	2702.446	2681.295	2661.818	2644.035	2627.962
25.0	2145.512	2137.826	2129.010	2120.484	2112.377	2102.889	2083.977	2066.399	2050.172	2035.312
27.5	1690.246	1680.201	1666.485	1654.148	1643.168	1633.494	1617.073	1601.995	1588.028	1575.173
30.0	1313.481	1303.356	1294.152	1285.140	1276.397	1267.997	1255.085	1242.662	1231.116	1220.445
32.5	1041.279	1034.205	1021.522	1009.486	998.105	987.381	979.053	971.926	965.649	960.177
35.0	817.999	813.293	803.337	793.912	785.018	776.653	770.445	765.073	760.041	755.388
37.5	650.151	647.693	641.535	636.003	631.040	626.620	621.260	615.638	610.366	605.441
40.0	526.116	525.070	522.740	520.547	518.612	516.937	513.368	508.840	504.604	500.657
42.5	436.071	435.893	434.617	433.289	432.140	431.172	428.683	425.158	421.841	418.731
45.0	370.519	371.036	370.446	369.626	368.938	368.385	366.534	363.549	360.713	358.025
47.5	321.719	322.828	322.696	322.093	321.572	321.138	319.131	315.396	311.709	308.089
50.0	284.571	286.103	285.783	284.388	282.964	281.529	279.134	275.664	272.376	269.254
52.5	253.020	254.110	253.233	251.117	249.146	247.312	245.295	242.902	240.588	238.356
55.0	222.967	223.689	223.226	221.683	220.176	218.710	216.770	213.969	211.219	208.525
57.5	197.230	198.559	198.201	196.023	193.861	191.722	189.393	186.702	184.122	181.646
60.0	173.456	174.653	174.382	172.284	170.319	168.478	166.694	164.857	163.090	161.388
62.5	151.604	153.501	154.303	153.225	152.203	151.238	150.151	148.630	147.153	145.721
65.0	132.716	136.178	138.139	137.157	136.217	135.320	134.078	131.581	129.065	126.547
67.5	112.124	114.961	116.382	114.912	113.516	112.195	110.619	107.905	105.341	102.914
70.0	87.318	88.727	89.652	89.063	88.632	88.345	87.825	85.704	83.592	81.499
72.5	65.161	66.799	67.921	67.472	66.958	66.397	65.371	61.972	58.617	55.315
75.0	45.935	45.943	45.667	44.322	43.094	41.979	40.705	37.751	34.912	32.176
77.5	25.049	24.441	23.824	23.113	22.438	21.801	21.107	19.640	18.282	17.020
80.0	10.755	10.315	9.910	9.458	9.033	8.633	8.256	7.868	7.512	7.186
82.5	4.057	4.014	3.965	3.791	3.637	3.501	3.382	3.285	3.199	3.122
85.0	1.646	1.654	1.661	1.650	1.640	1.630	1.621	1.597	1.575	1.558
87.5	0.868	0.863	0.860	0.833	0.807	0.781	0.756	0.751	0.748	0.748
90.0	0.436	0.443	0.450	0.428	0.405	0.383	0.361	0.375	0.390	0.406
92.5	0.361	0.361	0.361	0.351	0.342	0.333	0.326	0.335	0.344	0.353
95.0	0.373	0.368	0.362	0.361	0.361	0.361	0.361	0.361	0.361	0.361
97.5	0.398	0.392	0.389	0.391	0.393	0.395	0.397	0.399	0.400	0.401
100.0	0.418	0.427	0.432	0.433	0.433	0.433	0.433	0.433	0.433	0.433
102.5	0.484	0.473	0.463	0.463	0.466	0.468	0.470	0.471	0.473	0.474
105.0	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506
107.5	0.519	0.514	0.508	0.506	0.506	0.506	0.506	0.514	0.524	0.535
110.0	0.558	0.547	0.537	0.536	0.538	0.540	0.542	0.551	0.560	0.569
112.5	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578
115.0	0.600	0.603	0.605	0.608	0.610	0.612	0.614	0.616	0.617	0.618
117.5	0.672	0.675	0.677	0.680	0.682	0.684	0.686	0.681	0.672	0.662
120.0	0.787	0.796	0.804	0.807	0.806	0.802	0.798	0.785	0.770	0.753
122.5	1.004	1.012	1.021	1.019	1.008	0.995	0.982	0.968	0.954	0.938
125.0	1.285	1.302	1.318	1.323	1.309	1.293	1.275	1.267	1.266	1.264
127.5	1.781	1.807	1.832	1.841	1.825	1.806	1.785	1.790	1.814	1.836
130.0	2.521	2.567	2.611	2.638	2.624	2.607	2.585	2.584	2.602	2.615
132.5	3.582	3.636	3.682	3.711	3.709	3.705	3.700	3.707	3.725	3.740
135.0	5.113	5.147	5.172	5.197	5.250	5.299	5.344	5.387	5.429	5.465
137.5	7.405	7.434	7.452	7.468	7.559	7.642	7.717	7.776	7.812	7.839
140.0	10.509	10.585	10.659	10.734	10.869	10.992	11.103	11.189	11.235	11.269
142.5	14.731	14.971	15.198	15.411	15.561	15.685	15.787	15.887	16.025	16.151
145.0	20.863	21.223	21.568	21.896	22.078	22.210	22.317	22.440	22.698	22.932
147.5	29.322	29.803	30.241	30.636	30.969	31.274	31.560	31.839	32.202	32.531

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

150.0	40.685	41.151	41.583	41.980	42.464	42.998	43.495	43.947	44.399	44.803
152.5	53.552	54.115	54.670	55.212	55.705	56.103	56.437	56.707	57.125	57.515
155.0	65.649	66.246	66.806	67.312	67.725	67.998	68.266	68.523	68.887	69.243
157.5	75.727	76.239	76.545	76.833	77.110	77.584	78.030	78.446	78.751	78.980
160.0	83.222	83.686	83.967	84.249	84.530	84.875	85.223	85.554	85.792	85.932
162.5	87.773	88.137	88.478	88.796	89.100	89.393	89.679	89.955	90.195	90.350
165.0	90.277	90.607	90.926	91.105	91.287	91.471	91.672	91.871	92.067	92.206
167.5	89.871	90.141	90.425	90.663	90.771	90.889	91.009	91.121	91.244	91.385
170.0	87.105	87.186	87.351	87.528	87.694	87.675	87.668	87.750	87.980	88.254
172.5	82.200	82.321	82.283	82.276	82.308	82.407	82.580	82.499	82.454	82.701
175.0	76.611	76.348	76.019	75.736	75.645	75.549	75.426	75.283	75.243	75.321
177.5	67.595	67.904	68.053	68.192	68.319	68.418	68.450	68.463	68.453	68.464
180.0	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000	67.000

Vert. Horizontal Angles

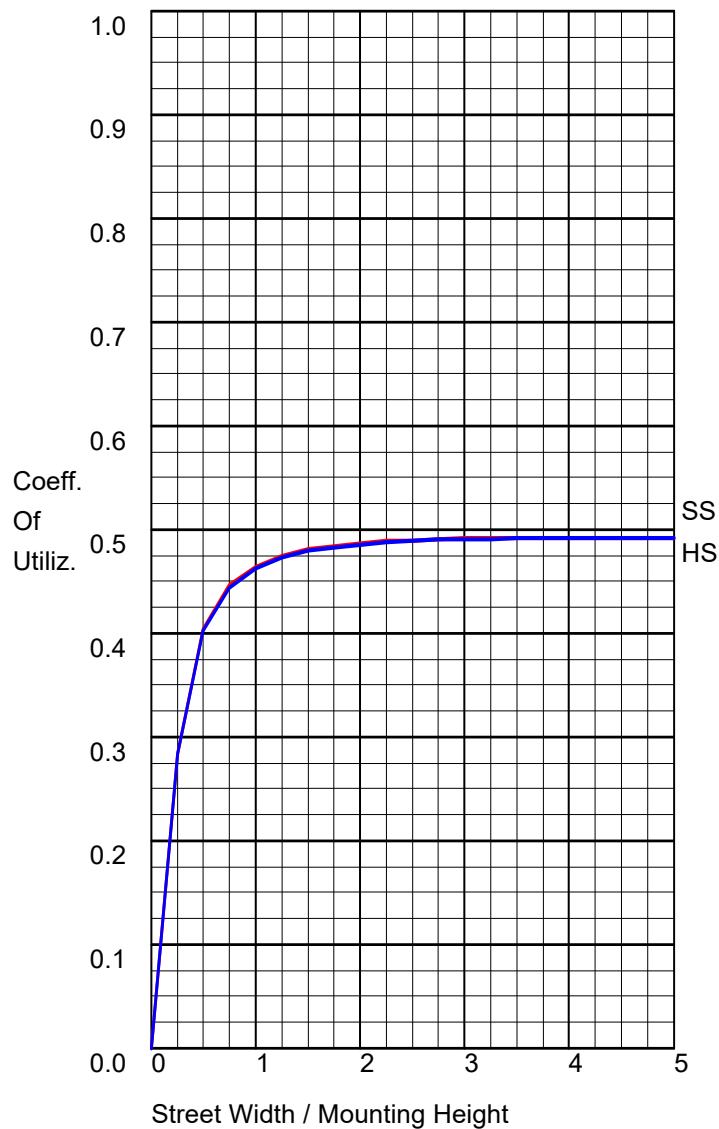
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	9555.124	9555.124	9555.124	9555.124	9555.124
2.5	9398.233	9388.543	9379.190	9370.185	9361.540
5.0	8945.403	8927.039	8909.655	8893.262	8877.868
7.5	8233.865	8209.049	8185.865	8164.319	8144.415
10.0	7323.212	7295.006	7268.982	7245.132	7223.444
12.5	6306.023	6290.232	6277.142	6266.589	6258.411
15.0	5251.738	5247.229	5245.310	5245.963	5249.172
17.5	4245.807	4244.186	4244.979	4248.187	4253.801
20.0	3360.707	3361.021	3363.434	3367.953	3374.581
22.5	2622.941	2624.437	2627.671	2632.654	2639.394
25.0	2030.025	2031.903	2035.170	2039.840	2045.927
27.5	1569.993	1571.849	1574.770	1578.772	1583.867
30.0	1215.504	1216.842	1219.014	1222.036	1225.924
32.5	956.469	954.658	953.359	952.620	952.493
35.0	751.976	750.439	749.501	749.129	749.287
37.5	602.035	601.075	600.391	600.012	599.968
40.0	497.452	495.487	493.797	492.378	491.228
42.5	416.214	414.830	413.649	412.668	411.887
45.0	355.876	354.940	354.157	353.526	353.046
47.5	305.442	305.689	306.099	306.658	307.352
50.0	267.011	267.388	267.834	268.361	268.981
52.5	236.574	236.317	236.144	236.057	236.058
55.0	206.290	205.873	205.542	205.297	205.142
57.5	179.570	179.081	178.659	178.307	178.026
60.0	159.869	159.066	158.304	157.586	156.919
62.5	144.369	143.282	142.237	141.235	140.277
65.0	124.165	122.738	121.377	120.085	118.866
67.5	100.717	99.532	98.424	97.387	96.417
70.0	79.520	78.459	77.452	76.503	75.614
72.5	52.240	51.174	50.212	49.350	48.584
75.0	29.658	29.022	28.432	27.889	27.391
77.5	15.876	15.377	14.917	14.497	14.114
80.0	6.896	6.693	6.518	6.363	6.227
82.5	3.056	3.033	3.018	3.008	3.005
85.0	1.543	1.531	1.523	1.518	1.517
87.5	0.751	0.745	0.740	0.738	0.737
90.0	0.422	0.421	0.420	0.419	0.419
92.5	0.361	0.361	0.361	0.361	0.361
95.0	0.361	0.361	0.361	0.361	0.361

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CANDELA TABULATION - (Cont.)

97.5	0.402	0.403	0.404	0.404	0.404
100.0	0.433	0.433	0.433	0.433	0.433
102.5	0.475	0.476	0.476	0.477	0.477
105.0	0.506	0.506	0.506	0.506	0.506
107.5	0.546	0.538	0.528	0.517	0.506
110.0	0.577	0.571	0.564	0.557	0.549
112.5	0.578	0.588	0.599	0.610	0.621
115.0	0.619	0.627	0.635	0.643	0.650
117.5	0.652	0.659	0.671	0.682	0.693
120.0	0.737	0.751	0.770	0.790	0.809
122.5	0.923	0.946	0.978	1.010	1.040
125.0	1.262	1.287	1.317	1.345	1.373
127.5	1.857	1.874	1.887	1.898	1.907
130.0	2.624	2.624	2.619	2.611	2.600
132.5	3.752	3.751	3.743	3.730	3.713
135.0	5.495	5.504	5.501	5.491	5.475
137.5	7.856	7.888	7.925	7.954	7.974
140.0	11.290	11.357	11.442	11.514	11.572
142.5	16.262	16.384	16.504	16.604	16.686
145.0	23.141	23.332	23.502	23.647	23.765
147.5	32.824	32.975	32.997	32.979	32.924
150.0	45.164	45.296	45.205	45.068	44.886
152.5	57.863	58.008	57.919	57.788	57.613
155.0	69.560	69.722	69.670	69.578	69.445
157.5	79.175	79.314	79.376	79.410	79.413
160.0	86.053	86.161	86.269	86.355	86.420
162.5	90.495	90.621	90.675	90.714	90.739
165.0	92.339	92.469	92.482	92.486	92.487
167.5	91.550	91.729	91.719	91.645	91.577
170.0	88.388	88.512	88.559	88.497	88.456
172.5	83.028	83.022	82.960	83.096	83.299
175.0	75.614	75.674	75.681	75.595	75.789
177.5	68.573	68.657	68.784	68.970	69.128
180.0	67.000	67.000	67.000	67.000	67.000

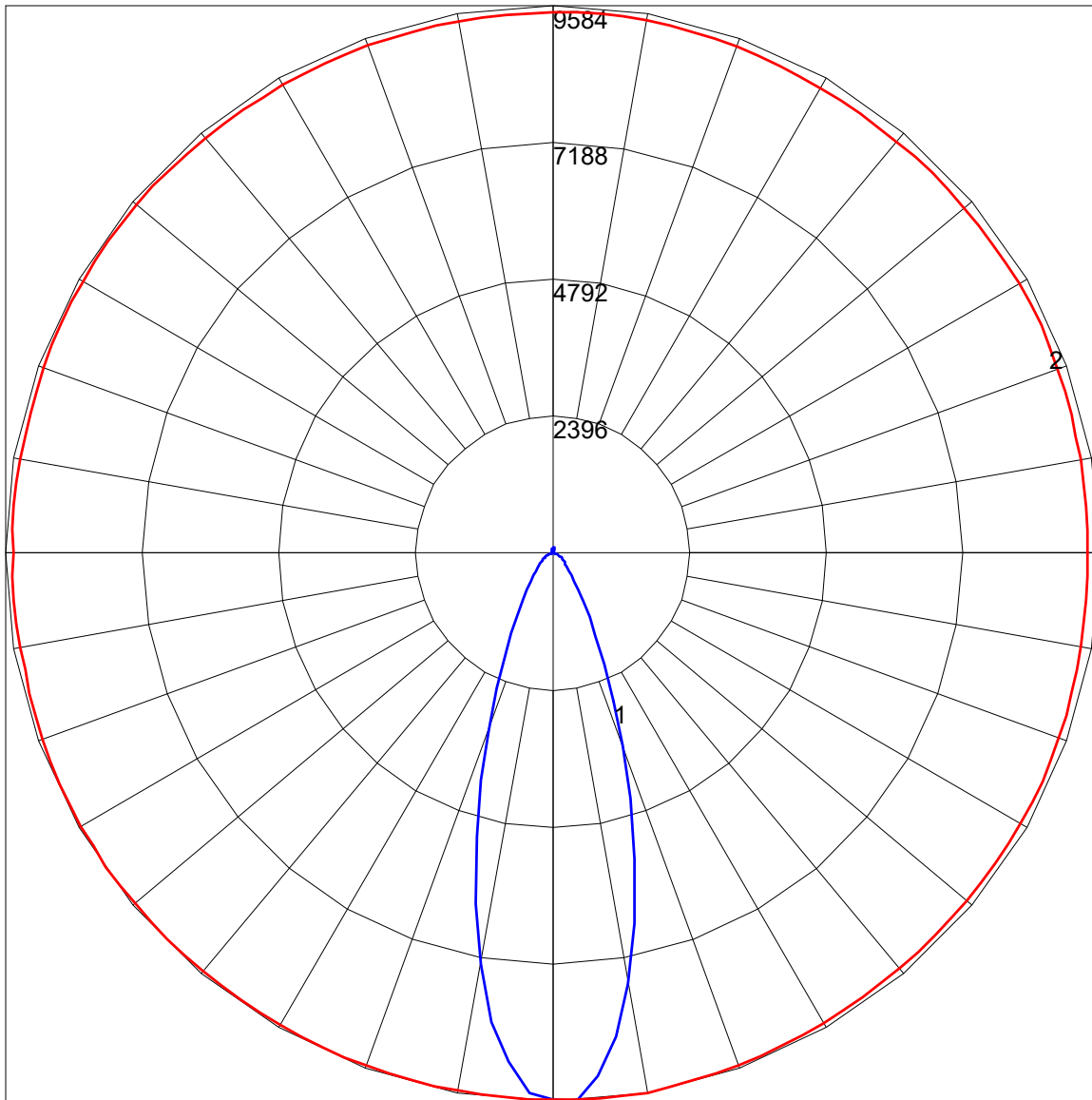
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

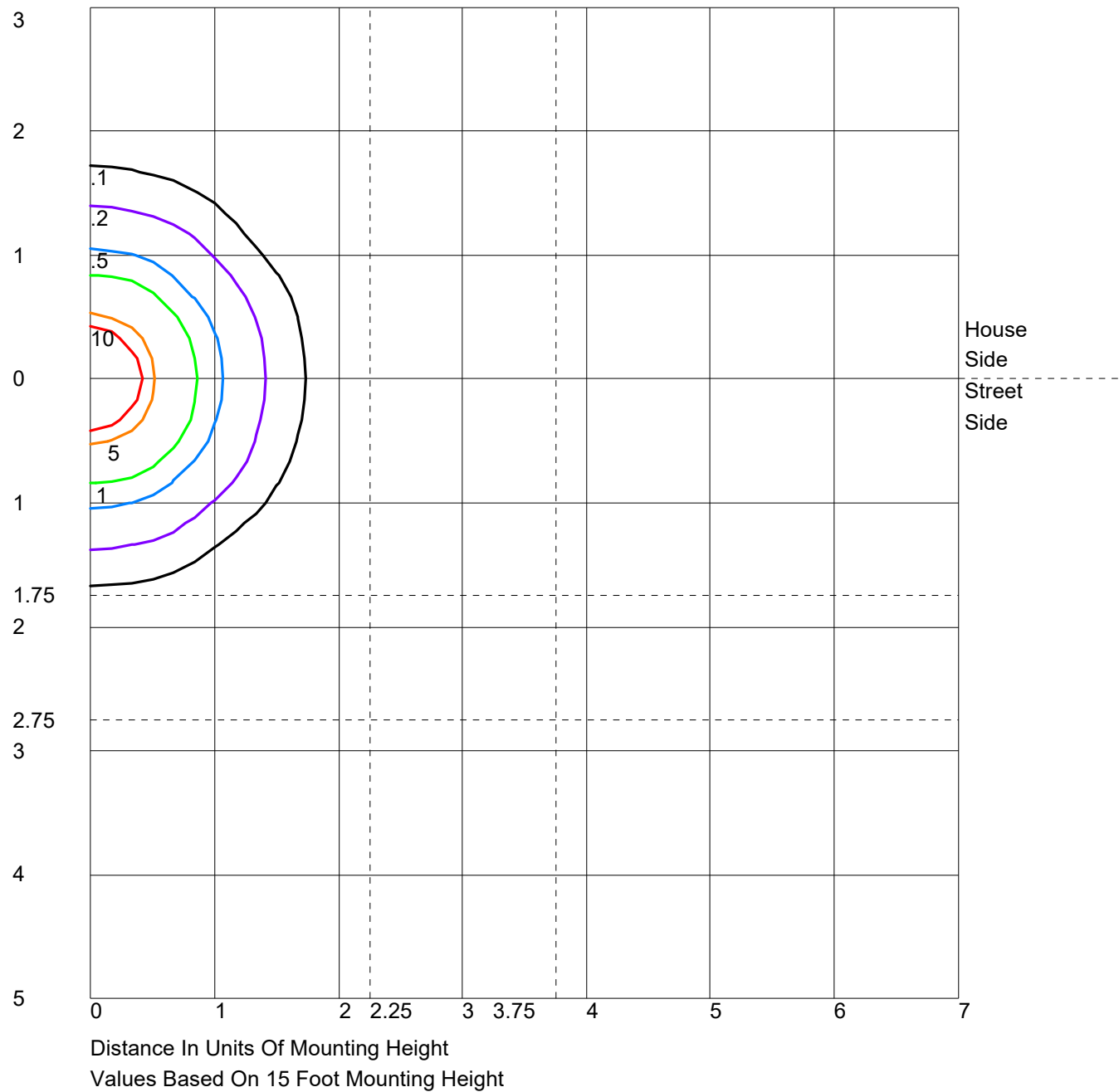
	Lumens	Percent Of Luminaire
Downward Street Side	2222.3	49.3
Downward House Side	2220.6	49.2
Downward Total	4442.9	98.5
Upward Street Side	39.8	0.9
Upward House Side	29.2	0.6
Upward Total	69.0	1.5
Total Flux	4511.9	100.0

POLAR GRAPH

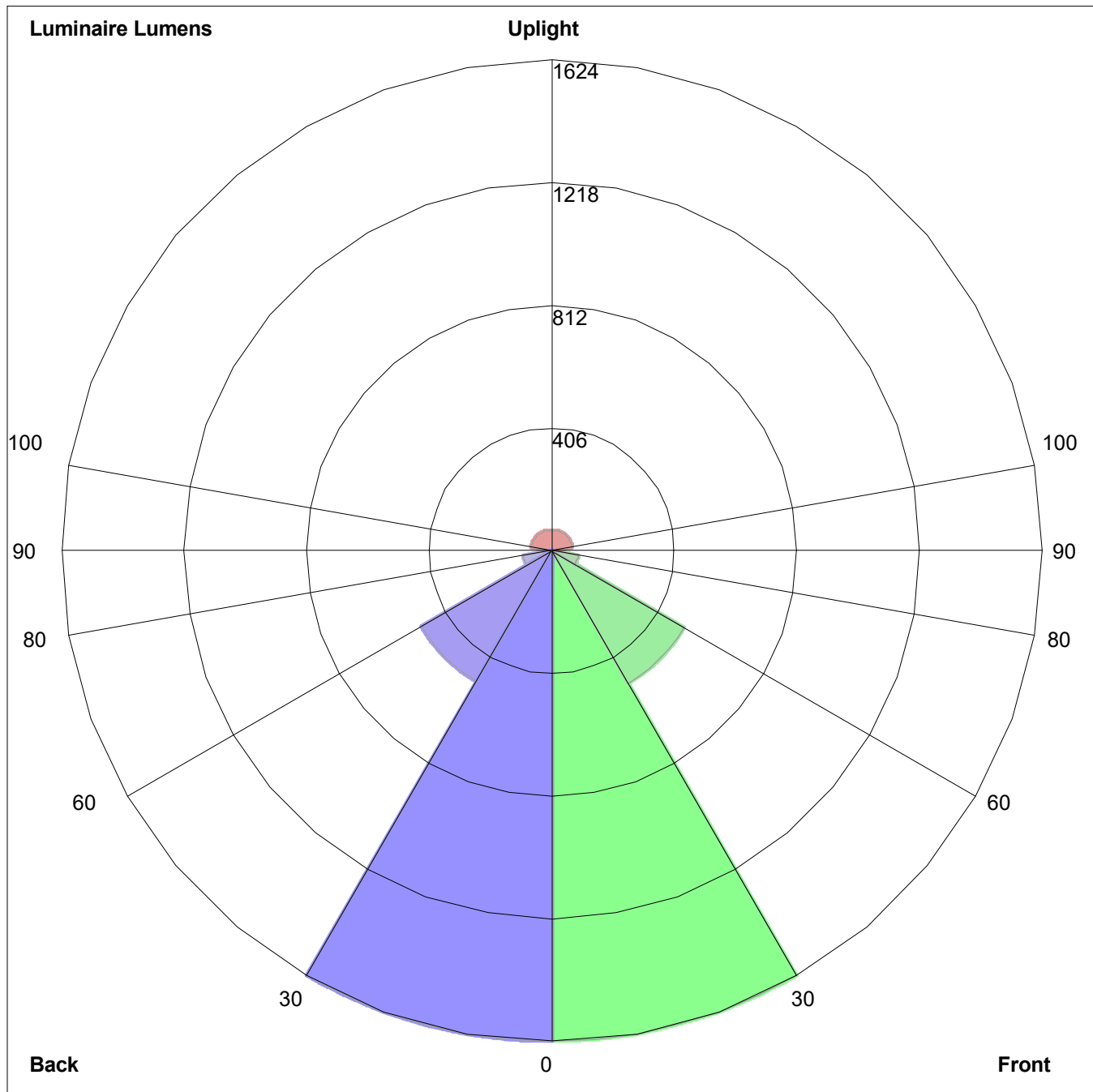


Maximum Candela = 9583.712 Located At Horizontal Angle = 277.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (277.5 - 97.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1623.7, Medium=506.9, High=89.9, Very High=1.8
Back: Low=1624.1, Medium=499.3, High=95.2, Very High=1.9
Uplight: Low=0.5, High=68.5

BUG Rating : B3-U3-G0