



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZIS-24-LED4-LO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L021506201 PRORATED TO ZIS-24-LED4-LO-SAL

[TESTLAB] LIGHT LABORATORY, INC.

[ISSUEDATE] 2/23/2015

[MANUFAC] PRUDENTIAL LTG.

[LUMCAT] ZIS-24-LED4-LO-SAL

[LUMINAIRE] 24 " L X 48" W X 1.5" H LED LINEAR DIRECT LUMINAIRE DIFFUSED LENS

[LAMPCAT]

[BALLAST]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5729
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.13 ft
Luminous Width (90-270)	2.14 ft
Luminous Height	0.14 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	816	847	801
55	920	961	892
65	1108	1150	1054
75	1533	1537	1400
85	3183	2806	2535

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CANDELA TABULATION

	<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	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	537.466	537.430	537.401	537.372	537.343	537.314	537.286	537.250	537.221	537.192
5.0	537.516	537.458	537.401	537.343	537.286	537.228	537.170	537.106	537.048	537.113
7.5	539.186	539.093	538.992	538.877	538.740	538.596	538.430	538.380	538.171	538.322
10.0	541.346	541.224	541.087	540.950	540.792	540.799	540.490	540.871	541.382	541.865
12.5	542.052	541.915	541.764	541.598	541.418	541.440	542.182	542.938	543.665	544.370
15.0	542.923	542.786	542.390	542.189	542.066	542.938	543.866	544.774	545.530	546.062
17.5	542.131	541.944	541.757	541.555	542.182	543.370	544.543	545.494	546.271	547.027
20.0	541.505	541.246	541.008	540.828	542.210	543.571	544.738	545.674	546.581	547.459
22.5	539.158	538.942	538.733	539.237	540.900	542.498	543.730	544.954	546.192	547.582
25.0	536.760	536.501	536.278	537.408	539.273	540.806	542.174	543.550	545.083	546.595
27.5	533.016	532.778	532.584	534.413	536.501	538.157	539.827	541.634	543.809	544.910
30.0	529.092	528.818	528.818	531.079	533.138	534.953	536.897	538.942	540.662	542.326
32.5	523.879	523.642	524.117	526.694	528.862	530.986	533.304	535.500	537.473	539.453
35.0	518.458	518.177	519.055	521.798	524.038	526.327	528.912	531.202	533.506	535.824
37.5	512.086	511.826	513.194	516.067	518.623	521.266	523.937	526.522	529.135	531.252
40.0	505.354	505.044	506.851	509.803	512.568	515.477	518.364	521.287	523.937	526.118
42.5	498.017	497.736	500.047	503.122	506.146	509.191	512.316	515.398	518.040	520.531
45.0	490.486	490.162	492.934	496.102	499.385	502.553	505.937	508.946	511.754	514.202
47.5	482.184	481.860	484.999	488.390	491.796	495.266	498.766	501.926	504.986	507.578
50.0	473.429	473.400	476.662	480.290	483.833	487.685	491.321	494.626	497.419	500.148
52.5	464.364	464.674	468.173	471.902	475.546	479.542	483.228	486.634	489.737	492.437
55.0	455.011	455.594	459.130	463.176	467.100	471.197	475.013	478.354	481.471	484.222
57.5	445.234	446.090	449.762	454.018	458.064	462.262	466.006	469.649	472.658	475.409
60.0	435.053	436.205	440.064	444.427	448.639	452.902	456.430	459.482	462.542	465.307
62.5	424.310	425.830	429.768	434.196	438.185	442.030	445.579	448.848	451.735	454.925
65.0	413.316	415.224	419.278	423.792	427.054	430.560	434.102	437.753	441.050	444.298
67.5	402.394	404.575	408.463	412.222	415.526	419.710	423.461	427.003	430.294	433.836
70.0	391.277	393.754	397.195	400.651	404.374	408.780	413.057	416.945	420.178	423.770
72.5	379.591	382.082	384.826	388.937	393.797	398.606	402.480	406.512	409.759	413.345
75.0	367.733	369.958	372.794	377.647	382.594	387.619	391.306	394.855	398.182	401.724
77.5	354.989	356.846	360.792	366.473	371.153	375.494	379.274	382.997	385.862	389.462
80.0	342.158	344.102	349.200	354.413	359.042	363.636	367.178	370.966	373.680	376.978
82.5	329.342	332.489	337.586	343.123	347.256	351.864	355.378	358.776	361.750	365.227
85.0	316.584	320.911	325.282	330.653	335.081	339.358	343.130	346.205	349.265	352.894
87.5	304.963	309.766	314.294	319.118	323.402	327.643	331.618	334.642	337.730	341.338
90.0	306.425	305.539	311.522	316.742	322.474	327.233	332.014	336.175	340.459	344.801
92.5	304.963	309.766	314.294	319.118	323.402	327.643	331.618	334.642	337.730	341.338
95.0	316.584	320.911	325.282	330.653	335.081	339.358	343.130	346.205	349.265	352.894
97.5	329.342	332.489	337.586	343.123	347.256	351.864	355.378	358.776	361.750	365.227
100.0	342.158	344.102	349.200	354.413	359.042	363.636	367.178	370.966	373.680	376.978
102.5	354.989	356.846	360.792	366.473	371.153	375.494	379.274	382.997	385.862	389.462
105.0	367.733	369.958	372.794	377.647	382.594	387.619	391.306	394.855	398.182	401.724
107.5	379.591	382.082	384.826	388.937	393.797	398.606	402.480	406.512	409.759	413.345
110.0	391.277	393.754	397.195	400.651	404.374	408.780	413.057	416.945	420.178	423.770
112.5	402.394	404.575	408.463	412.222	415.526	419.710	423.461	427.003	430.294	433.836
115.0	413.316	415.224	419.278	423.792	427.054	430.560	434.102	437.753	441.050	444.298
117.5	424.310	425.830	429.768	434.196	438.185	442.030	445.579	448.848	451.735	454.925
120.0	435.053	436.205	440.064	444.427	448.639	452.902	456.430	459.482	462.542	465.307
122.5	445.234	446.090	449.762	454.018	458.064	462.262	466.006	469.649	472.658	475.409
125.0	455.011	455.594	459.130	463.176	467.100	471.197	475.013	478.354	481.471	484.222
127.5	464.364	464.674	468.173	471.902	475.546	479.542	483.228	486.634	489.737	492.437
130.0	473.429	473.400	476.662	480.290	483.833	487.685	491.321	494.626	497.419	500.148
132.5	482.184	481.860	484.999	488.390	491.796	495.266	498.766	501.926	504.986	507.578

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CANDELA TABULATION - (Cont.)

135.0	490.486	490.162	492.934	496.102	499.385	502.553	505.937	508.946	511.754	514.202
137.5	498.017	497.736	500.047	503.122	506.146	509.191	512.316	515.398	518.040	520.531
140.0	505.354	505.044	506.851	509.803	512.568	515.477	518.364	521.287	523.937	526.118
142.5	512.086	511.826	513.194	516.067	518.623	521.266	523.937	526.522	529.135	531.252
145.0	518.458	518.177	519.055	521.798	524.038	526.327	528.912	531.202	533.506	535.824
147.5	523.879	523.642	524.117	526.694	528.862	530.986	533.304	535.500	537.473	539.453
150.0	529.092	528.818	528.818	531.079	533.138	534.953	536.897	538.942	540.662	542.326
152.5	533.016	532.778	532.584	534.413	536.501	538.157	539.827	541.634	543.809	544.910
155.0	536.760	536.501	536.278	537.408	539.273	540.806	542.174	543.550	545.083	546.595
157.5	539.158	538.942	538.733	539.237	540.900	542.498	543.730	544.954	546.192	547.582
160.0	541.505	541.246	541.008	540.828	542.210	543.571	544.738	545.674	546.581	547.459
162.5	542.131	541.944	541.757	541.555	542.182	543.370	544.543	545.494	546.271	547.027
165.0	542.923	542.786	542.390	542.189	542.066	542.938	543.866	544.774	545.530	546.062
167.5	542.052	541.915	541.764	541.598	541.418	541.440	542.182	542.938	543.665	544.370
170.0	541.346	541.224	541.087	540.950	540.792	540.799	540.490	540.871	541.382	541.865
172.5	539.186	539.093	538.992	538.877	538.740	538.596	538.430	538.380	538.171	538.322
175.0	537.516	537.458	537.401	537.343	537.286	537.228	537.170	537.106	537.048	537.113
177.5	537.466	537.430	537.401	537.372	537.343	537.314	537.286	537.250	537.221	537.192
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

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	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	537.156	537.127	537.098	537.070	537.034	537.005	536.976	536.947	536.918	536.890
5.0	536.926	536.882	536.897	536.911	537.134	537.401	537.653	537.898	538.128	538.351
7.5	538.661	538.970	539.266	539.525	539.770	539.986	540.173	540.518	540.482	540.886
10.0	542.318	542.743	543.139	543.262	543.398	543.499	543.571	543.614	543.629	543.614
12.5	544.867	545.270	545.645	545.990	546.336	546.682	546.847	546.977	547.070	547.121
15.0	546.574	547.056	547.510	548.006	548.496	548.950	549.367	549.626	549.770	549.907
17.5	547.754	548.546	549.432	550.102	550.562	550.829	551.066	551.268	551.434	551.498
20.0	548.474	549.454	550.246	550.822	551.354	551.858	552.298	552.686	552.722	552.802
22.5	548.957	549.878	550.649	551.297	551.887	552.319	552.715	552.809	552.838	552.852
25.0	547.718	548.834	549.929	550.915	551.750	552.175	552.427	552.506	552.535	552.542
27.5	546.300	547.610	548.734	549.533	550.166	550.778	551.362	551.794	552.103	551.873
30.0	543.982	545.558	546.595	547.517	548.424	549.338	549.713	549.950	550.238	550.202
32.5	541.498	542.556	543.737	544.910	546.170	546.595	547.114	547.603	547.891	548.006
35.0	537.545	538.956	540.432	541.663	542.678	543.478	544.435	544.673	544.810	544.882
37.5	533.167	534.967	536.407	537.674	538.841	540.029	540.684	541.152	541.346	541.411
40.0	528.206	529.913	531.583	533.383	534.830	535.946	536.386	537.005	537.444	537.502
42.5	522.590	524.354	526.234	527.875	529.430	530.798	532.080	532.282	532.577	532.642
45.0	516.269	518.386	520.330	522.173	523.742	524.894	525.960	526.874	527.342	527.126
47.5	509.976	512.006	514.008	515.930	517.579	518.774	520.078	520.380	520.646	520.726
50.0	502.589	505.102	507.290	509.198	510.898	512.158	512.827	513.367	513.828	513.763
52.5	495.029	497.534	499.831	501.984	503.366	504.612	505.757	506.081	506.376	506.441
55.0	487.246	489.665	491.926	493.769	495.461	496.548	497.520	498.413	498.780	498.622
57.5	478.073	480.845	483.012	484.877	486.569	488.095	489.161	489.838	490.140	490.054
60.0	468.166	470.909	473.299	475.200	477.029	478.555	479.880	480.456	480.902	480.665
62.5	458.748	461.081	463.234	464.969	466.618	468.202	469.620	470.405	470.750	470.743
65.0	447.847	451.310	452.621	454.270	456.106	457.596	459.079	459.785	460.044	460.130
67.5	437.083	439.704	441.518	443.203	445.090	446.494	447.912	448.690	448.762	449.078
70.0	427.162	429.509	431.309	432.612	433.850	435.233	436.550	437.558	437.357	437.724
72.5	417.168	419.666	420.638	421.646	422.467	423.576	424.562	425.239	425.383	425.398
75.0	404.978	407.988	409.298	410.170	410.587	411.466	412.308	412.783	412.978	412.978
77.5	392.429	394.898	397.102	397.922	398.326	399.254	399.974	400.385	400.673	400.572
80.0	379.685	381.895	384.242	384.739	385.344	385.970	386.719	387.367	387.914	387.533

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CANDELA TABULATION - (Cont.)

82.5	368.201	369.583	370.800	371.549	372.398	372.665	373.118	373.774	374.558	373.946
85.0	356.306	356.954	357.660	358.351	359.273	359.719	360.338	361.346	362.585	361.483
87.5	345.096	345.370	345.679	346.428	347.213	347.868	348.523	349.733	350.935	349.805
90.0	349.186	353.347	354.391	355.406	356.911	358.430	359.964	361.418	361.966	362.275
92.5	345.096	345.370	345.679	346.428	347.213	347.868	348.523	349.733	350.935	349.805
95.0	356.306	356.954	357.660	358.351	359.273	359.719	360.338	361.346	362.585	361.483
97.5	368.201	369.583	370.800	371.549	372.398	372.665	373.118	373.774	374.558	373.946
100.0	379.685	381.895	384.242	384.739	385.344	385.970	386.719	387.367	387.914	387.533
102.5	392.429	394.898	397.102	397.922	398.326	399.254	399.974	400.385	400.673	400.572
105.0	404.978	407.988	409.298	410.170	410.587	411.466	412.308	412.783	412.978	412.978
107.5	417.168	419.666	420.638	421.646	422.467	423.576	424.562	425.239	425.383	425.398
110.0	427.162	429.509	431.309	432.612	433.850	435.233	436.550	437.558	437.357	437.724
112.5	437.083	439.704	441.518	443.203	445.090	446.494	447.912	448.690	448.762	449.078
115.0	447.847	451.310	452.621	454.270	456.106	457.596	459.079	459.785	460.044	460.130
117.5	458.748	461.081	463.234	464.969	466.618	468.202	469.620	470.405	470.750	470.743
120.0	468.166	470.909	473.299	475.200	477.029	478.555	479.880	480.456	480.902	480.665
122.5	478.073	480.845	483.012	484.877	486.569	488.095	489.161	489.838	490.140	490.054
125.0	487.246	489.665	491.926	493.769	495.461	496.548	497.520	498.413	498.780	498.622
127.5	495.029	497.534	499.831	501.984	503.366	504.612	505.757	506.081	506.376	506.441
130.0	502.589	505.102	507.290	509.198	510.898	512.158	512.827	513.367	513.828	513.763
132.5	509.976	512.006	514.008	515.930	517.579	518.774	520.078	520.380	520.646	520.726
135.0	516.269	518.386	520.330	522.173	523.742	524.894	525.960	526.874	527.342	527.126
137.5	522.590	524.354	526.234	527.875	529.430	530.798	532.080	532.282	532.577	532.642
140.0	528.206	529.913	531.583	533.383	534.830	535.946	536.386	537.005	537.444	537.502
142.5	533.167	534.967	536.407	537.674	538.841	540.029	540.684	541.152	541.346	541.411
145.0	537.545	538.956	540.432	541.663	542.678	543.478	544.435	544.673	544.810	544.882
147.5	541.498	542.556	543.737	544.910	546.170	546.595	547.114	547.603	547.891	548.006
150.0	543.982	545.558	546.595	547.517	548.424	549.338	549.713	549.950	550.238	550.202
152.5	546.300	547.610	548.734	549.533	550.166	550.778	551.362	551.794	552.103	551.873
155.0	547.718	548.834	549.929	550.915	551.750	552.175	552.427	552.506	552.535	552.542
157.5	548.957	549.878	550.649	551.297	551.887	552.319	552.715	552.809	552.838	552.852
160.0	548.474	549.454	550.246	550.822	551.354	551.858	552.298	552.686	552.722	552.802
162.5	547.754	548.546	549.432	550.102	550.562	550.829	551.066	551.268	551.434	551.498
165.0	546.574	547.056	547.510	548.006	548.496	548.950	549.367	549.626	549.770	549.907
167.5	544.867	545.270	545.645	545.990	546.336	546.682	546.847	546.977	547.070	547.121
170.0	542.318	542.743	543.139	543.262	543.398	543.499	543.571	543.614	543.629	543.614
172.5	538.661	538.970	539.266	539.525	539.770	539.986	540.173	540.518	540.482	540.886
175.0	536.926	536.882	536.897	536.911	537.134	537.401	537.653	537.898	538.128	538.351
177.5	537.156	537.127	537.098	537.070	537.034	537.005	536.976	536.947	536.918	536.890
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

Vert. Angles	Horizontal Angles									
	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5
0.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	536.861	536.832	536.803	536.782	536.753	536.890	536.717	536.695	536.688	536.681
5.0	538.560	538.754	538.934	539.100	539.258	539.395	539.525	539.633	539.734	539.813
7.5	541.058	541.246	541.418	541.584	541.728	541.858	541.980	542.081	542.167	542.239
10.0	543.571	543.542	543.485	543.449	543.917	544.126	544.327	544.507	544.658	544.795
12.5	547.135	547.106	546.912	546.674	546.408	546.106	545.911	546.257	546.336	546.422
15.0	549.900	549.698	549.454	549.151	548.741	548.316	547.855	547.358	547.135	547.308
17.5	551.506	551.477	551.614	551.146	550.555	549.886	549.187	548.460	547.704	546.962
20.0	552.521	552.247	551.952	551.628	551.268	550.634	549.821	548.978	548.100	547.193
22.5	552.830	552.535	552.190	551.815	551.398	550.872	550.123	549.014	547.877	546.718
25.0	552.499	552.341	552.002	551.347	550.656	549.943	549.209	548.302	547.006	545.630
27.5	551.513	551.124	550.692	550.282	549.634	548.734	547.711	546.574	545.342	543.737

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CANDELA TABULATION - (Cont.)

30.0	550.224	549.850	549.130	548.266	547.452	546.646	545.422	544.190	542.801	541.318
32.5	547.704	547.294	546.984	545.918	545.270	543.953	543.038	541.274	539.582	537.732
35.0	544.723	544.414	543.982	543.024	541.829	540.403	539.042	537.782	535.795	533.786
37.5	541.303	540.994	540.065	539.071	538.006	536.731	535.147	533.369	531.461	529.078
40.0	537.034	536.551	536.040	535.046	533.484	531.821	530.064	528.113	526.183	524.023
42.5	532.699	531.727	530.755	529.834	528.098	526.349	524.585	522.763	520.445	518.119
45.0	526.680	525.946	524.995	523.742	522.252	520.610	518.494	516.434	514.166	511.574
47.5	520.762	519.811	518.731	517.601	516.089	514.145	512.266	509.926	507.636	504.698
50.0	513.468	513.108	512.323	510.847	509.170	507.247	505.109	502.618	499.990	497.333
52.5	506.254	505.656	504.965	503.575	501.768	499.774	497.484	494.878	492.257	489.427
55.0	498.269	497.563	496.613	495.302	493.812	491.652	489.262	486.763	484.006	481.039
57.5	489.809	488.830	487.620	486.295	484.538	482.594	480.197	477.763	474.869	472.183
60.0	480.103	479.218	478.008	476.489	474.761	472.666	470.182	467.518	464.825	461.974
62.5	469.966	468.943	467.597	466.186	464.602	462.766	460.469	457.250	454.039	451.238
65.0	459.547	458.345	457.078	455.501	454.090	452.873	450.043	446.695	443.318	440.208
67.5	448.625	447.437	446.206	444.535	443.002	441.533	439.265	436.133	432.605	429.415
70.0	437.414	436.241	434.923	433.850	432.706	431.158	429.005	425.952	422.402	419.177
72.5	425.246	424.418	423.389	422.676	421.949	421.106	419.141	415.339	411.790	408.737
75.0	412.805	412.193	411.322	411.257	410.501	409.378	406.757	403.553	399.910	396.655
77.5	400.356	399.816	398.858	398.714	398.081	396.252	393.552	390.773	387.497	384.552
80.0	387.029	386.460	385.870	385.430	384.646	382.932	380.830	378.216	375.026	372.341
82.5	373.385	373.046	372.643	372.096	371.398	370.310	369.007	366.214	362.794	359.813
85.0	360.540	359.957	359.424	358.718	358.078	357.422	356.825	353.563	349.970	346.882
87.5	348.624	347.983	347.414	346.608	346.018	345.600	345.542	341.676	337.925	334.980
90.0	362.124	361.339	360.317	359.402	358.711	358.308	356.242	352.246	348.487	344.390
92.5	348.624	347.983	347.414	346.608	346.018	345.600	345.542	341.676	337.925	334.980
95.0	360.540	359.957	359.424	358.718	358.078	357.422	356.825	353.563	349.970	346.882
97.5	373.385	373.046	372.643	372.096	371.398	370.310	369.007	366.214	362.794	359.813
100.0	387.029	386.460	385.870	385.430	384.646	382.932	380.830	378.216	375.026	372.341
102.5	400.356	399.809	398.858	398.714	398.081	396.252	393.552	390.773	387.497	384.552
105.0	412.805	412.193	411.322	411.257	410.501	409.378	406.757	403.553	399.910	396.655
107.5	425.246	424.418	423.389	422.676	421.949	421.106	419.141	415.339	411.790	408.737
110.0	437.414	436.241	434.923	433.850	432.706	431.158	429.005	425.952	422.402	419.177
112.5	448.625	447.437	446.206	444.535	443.002	441.533	439.265	436.133	432.605	429.415
115.0	459.547	458.345	457.078	455.501	454.090	452.873	450.043	446.695	443.318	440.208
117.5	469.966	468.943	467.597	466.186	464.602	462.766	460.469	457.250	454.039	451.238
120.0	480.103	479.218	478.008	476.489	474.761	472.666	470.182	467.518	464.825	461.974
122.5	489.809	488.830	487.620	486.295	484.538	482.594	480.197	477.763	474.869	472.183
125.0	498.269	497.563	496.613	495.302	493.812	491.652	489.262	486.763	484.006	481.039
127.5	506.254	505.656	504.965	503.575	501.768	499.774	497.484	494.878	492.257	489.427
130.0	513.468	513.108	512.323	510.847	509.170	507.247	505.109	502.618	499.990	497.333
132.5	520.762	519.811	518.731	517.601	516.089	514.145	512.266	509.926	507.636	504.698
135.0	526.680	525.946	524.995	523.742	522.252	520.610	518.494	516.434	514.166	511.574
137.5	532.699	531.727	530.755	529.834	528.098	526.349	524.585	522.763	520.445	518.119
140.0	537.034	536.551	536.040	535.046	533.484	531.821	530.064	528.113	526.183	524.023
142.5	541.303	540.994	540.065	539.071	538.006	536.731	535.147	533.369	531.461	529.078
145.0	544.723	544.414	543.982	543.024	541.829	540.403	539.042	537.782	535.795	533.786
147.5	547.704	547.294	546.984	545.918	545.270	543.953	543.038	541.274	539.582	537.732
150.0	550.224	549.850	549.130	548.266	547.452	546.646	545.422	544.190	542.801	541.318
152.5	551.513	551.124	550.692	550.282	549.634	548.734	547.711	546.574	545.342	543.737
155.0	552.499	552.341	552.002	551.347	550.656	549.943	549.209	548.302	547.006	545.630
157.5	552.830	552.535	552.190	551.815	551.398	550.872	550.123	549.014	547.877	546.718
160.0	552.521	552.247	551.952	551.628	551.268	550.634	549.821	548.978	548.100	547.193
162.5	551.506	551.477	551.614	551.146	550.555	549.886	549.187	548.460	547.704	546.962
165.0	549.900	549.698	549.454	549.151	548.741	548.316	547.855	547.358	547.135	547.308
167.5	547.135	547.106	546.912	546.674	546.408	546.106	545.911	546.257	546.336	546.422

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CANDELA TABULATION - (Cont.)

170.0	543.571	543.542	543.485	543.449	543.917	544.126	544.327	544.507	544.658	544.795
172.5	541.058	541.246	541.418	541.584	541.728	541.858	541.980	542.081	542.167	542.239
175.0	538.560	538.754	538.934	539.100	539.258	539.395	539.525	539.633	539.734	539.813
177.5	536.861	536.832	536.803	536.782	536.753	536.890	536.717	536.695	536.688	536.681
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

Vert. Angles	Horizontal Angles									
	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	536.666	536.954	536.652	536.681	536.710	536.738	536.774	536.774	536.717	536.688
5.0	539.885	539.935	539.971	539.993	540.014	540.072	540.137	540.079	540.101	540.007
7.5	542.570	542.340	542.362	542.376	542.369	542.369	542.462	542.376	542.383	542.390
10.0	544.903	544.982	545.040	545.076	545.083	545.270	545.162	545.350	545.098	545.090
12.5	546.487	546.538	546.559	546.631	546.523	546.473	546.523	546.487	546.538	546.646
15.0	547.351	547.366	547.366	547.337	547.294	547.222	547.250	547.236	547.308	547.351
17.5	547.099	547.042	546.977	546.890	546.804	546.883	546.797	546.898	546.818	546.905
20.0	546.350	546.458	546.372	546.278	546.163	546.034	545.954	546.048	546.178	546.293
22.5	545.544	544.824	544.702	544.514	544.378	544.126	543.946	544.140	544.399	544.529
25.0	544.241	542.830	542.462	542.210	541.958	541.714	541.937	541.728	541.973	542.225
27.5	542.081	540.425	539.208	539.042	538.682	538.402	538.222	538.416	538.697	539.057
30.0	539.417	537.516	535.666	535.205	534.866	534.550	534.406	534.564	534.881	535.219
32.5	535.831	533.650	531.497	530.374	529.963	529.582	529.438	529.596	529.978	530.388
35.0	531.749	529.373	526.939	525.024	524.628	524.196	524.088	524.210	524.642	525.046
37.5	526.637	524.261	521.626	519.062	518.400	517.889	517.774	517.903	518.414	519.120
40.0	521.388	518.774	515.822	513.036	511.740	511.142	511.056	511.157	511.754	513.086
42.5	515.225	512.294	509.335	506.275	504.367	503.719	503.669	503.734	504.382	506.318
45.0	508.824	505.627	502.668	499.342	496.800	496.116	496.138	496.123	496.814	499.392
47.5	501.653	498.254	494.957	491.530	488.210	487.562	487.627	487.577	488.246	491.573
50.0	494.086	490.745	487.080	483.530	479.945	478.771	478.872	478.786	479.988	483.574
52.5	486.151	482.580	478.649	475.006	471.211	469.505	469.634	469.512	471.247	475.049
55.0	477.821	474.106	470.196	466.301	462.319	460.030	460.238	460.037	462.362	466.344
57.5	468.842	465.214	461.074	456.876	452.772	449.849	450.187	449.856	452.808	456.919
60.0	458.964	455.566	451.483	447.343	443.102	439.531	439.920	439.538	443.138	447.379
62.5	448.070	444.686	441.000	436.932	432.655	428.558	428.897	428.566	432.684	436.968
65.0	436.687	433.109	429.631	426.197	422.122	417.463	417.737	417.463	422.158	426.240
67.5	425.923	422.208	418.162	414.583	411.041	406.548	406.483	406.570	411.070	414.626
70.0	415.440	411.221	406.814	402.833	399.528	395.683	395.129	395.705	399.564	402.869
72.5	404.690	400.781	396.144	391.061	387.029	383.767	383.026	383.782	387.058	391.090
75.0	393.199	389.477	384.610	379.505	374.731	371.513	370.836	371.527	374.753	379.534
77.5	381.017	377.165	372.852	368.143	362.542	358.178	357.610	358.193	362.556	368.165
80.0	368.597	364.997	360.511	355.752	350.604	345.182	344.340	345.197	350.618	355.774
82.5	356.450	352.958	348.372	344.138	338.688	333.360	331.006	333.367	338.695	344.153
85.0	343.850	340.099	335.830	331.351	326.009	321.480	317.693	321.487	326.016	331.358
87.5	331.970	328.010	323.791	319.471	314.654	310.046	305.525	310.046	314.662	319.478
90.0	340.142	336.053	331.618	325.764	320.861	320.184	319.939	320.213	320.897	325.879
92.5	331.970	328.010	323.791	319.471	314.654	310.046	305.525	310.046	314.662	319.478
95.0	343.850	340.099	335.830	331.351	326.009	321.480	317.693	321.487	326.016	331.358
97.5	356.450	352.958	348.372	344.138	338.688	333.360	331.006	333.367	338.695	344.153
100.0	368.597	364.997	360.511	355.752	350.604	345.182	344.340	345.197	350.618	355.774
102.5	381.017	377.165	372.852	368.143	362.542	358.178	357.610	358.193	362.556	368.165
105.0	393.199	389.477	384.610	379.505	374.731	371.513	370.836	371.527	374.753	379.534
107.5	404.690	400.781	396.144	391.061	387.029	383.767	383.026	383.782	387.058	391.090
110.0	415.440	411.221	406.814	402.833	399.528	395.683	395.129	395.705	399.564	402.869
112.5	425.923	422.208	418.162	414.583	411.041	406.548	406.483	406.570	411.070	414.626
115.0	436.687	433.109	429.631	426.197	422.122	417.463	417.737	417.463	422.158	426.240

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CANDELA TABULATION - (Cont.)

117.5	448.070	444.686	441.000	436.932	432.655	428.558	428.897	428.566	432.684	436.968
120.0	458.964	455.566	451.483	447.343	443.102	439.531	439.920	439.538	443.138	447.379
122.5	468.842	465.214	461.074	456.876	452.772	449.849	450.187	449.856	452.808	456.919
125.0	477.821	474.106	470.196	466.301	462.319	460.030	460.238	460.037	462.362	466.344
127.5	486.151	482.580	478.649	475.006	471.211	469.505	469.634	469.512	471.247	475.049
130.0	494.086	490.745	487.080	483.530	479.945	478.771	478.872	478.786	479.988	483.574
132.5	501.653	498.254	494.957	491.530	488.210	487.562	487.627	487.577	488.246	491.573
135.0	508.824	505.627	502.668	499.342	496.800	496.116	496.138	496.123	496.814	499.392
137.5	515.225	512.294	509.335	506.275	504.367	503.719	503.669	503.734	504.382	506.318
140.0	521.388	518.774	515.822	513.036	511.740	511.142	511.056	511.157	511.754	513.086
142.5	526.637	524.261	521.626	519.062	518.400	517.889	517.774	517.903	518.414	519.120
145.0	531.749	529.373	526.939	525.024	524.628	524.196	524.088	524.210	524.642	525.046
147.5	535.831	533.650	531.497	530.374	529.963	529.582	529.438	529.596	529.978	530.388
150.0	539.417	537.516	535.666	535.205	534.866	534.550	534.406	534.564	534.881	535.219
152.5	542.081	540.425	539.208	539.042	538.682	538.402	538.222	538.416	538.697	539.057
155.0	544.241	542.830	542.462	542.210	541.958	541.714	541.937	541.728	541.973	542.225
157.5	545.544	544.824	544.702	544.514	544.378	544.126	543.946	544.140	544.399	544.529
160.0	546.350	546.458	546.372	546.278	546.163	546.034	545.954	546.048	546.178	546.293
162.5	547.099	547.042	546.977	546.890	546.804	546.883	546.797	546.898	546.818	546.912
165.0	547.351	547.366	547.366	547.337	547.294	547.222	547.250	547.236	547.308	547.351
167.5	546.487	546.538	546.559	546.631	546.523	546.473	546.523	546.487	546.538	546.646
170.0	544.903	544.982	545.040	545.076	545.083	545.270	545.162	545.350	545.098	545.090
172.5	542.570	542.340	542.362	542.376	542.369	542.369	542.462	542.376	542.383	542.390
175.0	539.885	539.935	539.971	539.993	540.014	540.072	540.137	540.079	540.101	540.007
177.5	536.666	536.954	536.652	536.681	536.710	536.738	536.774	536.774	536.717	536.688
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

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	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	536.695	536.674	536.681	536.695	536.702	536.710	536.731	536.904	536.767	536.796
5.0	539.986	539.950	539.899	539.827	539.748	539.654	539.539	539.410	539.273	539.114
7.5	542.376	542.354	542.585	542.254	542.182	542.095	541.994	541.872	541.742	541.598
10.0	545.054	544.997	544.918	544.810	544.673	544.522	544.342	544.464	543.924	543.478
12.5	546.574	546.552	546.502	546.437	546.350	546.235	545.940	546.170	546.466	546.732
15.0	547.380	547.380	547.366	547.322	547.164	547.423	547.920	548.381	548.806	549.216
17.5	546.991	547.056	547.114	546.991	547.762	548.518	549.245	549.943	550.613	551.203
20.0	546.386	546.473	546.379	547.250	548.158	549.036	549.886	550.699	551.340	551.693
22.5	544.716	544.846	545.602	546.782	547.934	549.072	550.181	550.944	551.470	551.880
25.0	542.477	542.887	544.298	545.688	547.063	548.374	549.281	550.015	550.728	551.412
27.5	539.237	540.482	542.138	543.794	545.494	546.646	547.783	548.798	549.698	550.361
30.0	535.716	537.574	539.474	541.375	542.873	544.255	545.494	546.710	547.524	548.345
32.5	531.554	533.707	535.889	537.797	539.647	541.339	543.082	544.025	545.292	545.998
35.0	526.997	529.430	531.814	533.858	535.860	537.847	539.122	540.482	541.901	543.110
37.5	521.683	524.318	526.702	529.150	531.526	533.441	535.219	536.810	538.092	539.150
40.0	515.880	518.839	521.446	524.088	526.255	528.185	530.136	531.900	533.563	535.133
42.5	509.386	512.352	515.290	518.191	520.517	522.835	524.664	526.428	528.185	529.870
45.0	502.718	505.685	508.882	511.646	514.231	516.514	518.573	520.690	522.331	523.829
47.5	495.014	498.319	501.718	504.763	507.708	509.998	512.345	514.224	516.118	517.687
50.0	487.138	490.802	494.150	497.390	500.054	502.690	505.188	507.326	509.249	510.926
52.5	478.699	482.645	486.209	489.492	492.322	494.950	497.556	499.846	501.840	503.633
55.0	470.254	474.163	477.878	481.104	484.078	486.835	489.334	491.724	493.898	495.382
57.5	461.124	465.264	468.907	472.255	474.934	477.828	480.269	482.666	484.610	486.367
60.0	451.534	455.623	459.022	462.038	464.890	467.582	470.246	472.730	474.833	476.561
62.5	441.050	444.737	448.128	451.274	454.104	457.308	460.526	462.830	464.666	466.250

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CANDELA TABULATION - (Cont.)

65.0	429.674	433.159	436.738	440.258	443.376	446.753	450.094	452.938	454.154	455.566
67.5	418.212	422.251	425.966	429.466	432.655	436.183	439.322	441.590	443.066	444.593
70.0	406.858	411.264	415.483	419.220	422.446	425.995	429.055	431.208	432.763	433.908
72.5	396.173	400.810	404.734	408.686	411.833	415.382	419.184	421.157	422.381	422.719
75.0	384.638	389.506	393.235	396.691	399.946	403.582	406.800	409.421	410.544	411.286
77.5	372.881	377.186	381.046	384.581	387.533	390.802	393.588	396.288	398.117	398.750
80.0	360.533	365.018	368.618	372.362	375.055	378.245	380.858	382.961	384.674	385.459
82.5	348.386	352.973	356.472	359.827	362.815	366.235	369.029	370.339	371.426	372.118
85.0	335.837	340.106	343.865	346.896	349.985	353.578	356.839	357.437	358.092	358.740
87.5	323.798	328.010	331.978	334.987	337.932	341.683	345.542	345.607	346.018	346.615
90.0	331.726	336.175	340.272	344.542	348.552	352.397	356.386	358.488	358.891	359.575
92.5	323.798	328.010	331.978	334.987	337.932	341.683	345.542	345.607	346.018	346.615
95.0	335.837	340.106	343.865	346.896	349.985	353.578	356.839	357.437	358.092	358.740
97.5	348.386	352.973	356.472	359.827	362.815	366.235	369.029	370.339	371.419	372.118
100.0	360.533	365.018	368.618	372.362	375.055	378.245	380.858	382.961	384.674	385.459
102.5	372.881	377.186	381.046	384.581	387.533	390.802	393.588	396.288	398.117	398.750
105.0	384.638	389.506	393.235	396.691	399.946	403.582	406.800	409.421	410.544	411.286
107.5	396.173	400.810	404.734	408.686	411.833	415.382	419.184	421.157	422.381	422.719
110.0	406.858	411.264	415.483	419.220	422.446	425.995	429.055	431.208	432.763	433.908
112.5	418.212	422.251	425.966	429.466	432.655	436.183	439.322	441.590	443.066	444.593
115.0	429.682	433.159	436.738	440.258	443.376	446.753	450.094	452.938	454.154	455.566
117.5	441.050	444.737	448.128	451.274	454.104	457.308	460.526	462.830	464.666	466.250
120.0	451.534	455.623	459.022	462.038	464.890	467.582	470.246	472.730	474.833	476.561
122.5	461.124	465.264	468.907	472.255	474.934	477.828	480.269	482.666	484.610	486.367
125.0	470.254	474.163	477.878	481.104	484.078	486.835	489.334	491.724	493.898	495.382
127.5	478.699	482.645	486.209	489.492	492.322	494.950	497.556	499.846	501.840	503.633
130.0	487.138	490.802	494.150	497.390	500.054	502.690	505.188	507.326	509.249	510.926
132.5	495.014	498.319	501.718	504.763	507.708	509.998	512.345	514.224	516.118	517.687
135.0	502.718	505.685	508.882	511.646	514.231	516.514	518.573	520.690	522.331	523.829
137.5	509.386	512.352	515.290	518.191	520.517	522.835	524.664	526.428	528.185	529.870
140.0	515.880	518.839	521.446	524.088	526.255	528.185	530.136	531.900	533.563	535.133
142.5	521.683	524.318	526.702	529.150	531.526	533.441	535.219	536.810	538.092	539.150
145.0	526.997	529.430	531.814	533.858	535.860	537.847	539.122	540.482	541.901	543.110
147.5	531.554	533.707	535.889	537.797	539.647	541.339	543.082	544.025	545.292	545.998
150.0	535.716	537.574	539.474	541.375	542.873	544.255	545.494	546.710	547.524	548.345
152.5	539.237	540.482	542.138	543.794	545.494	546.646	547.783	548.798	549.698	550.361
155.0	542.477	542.887	544.298	545.688	547.063	548.374	549.281	550.015	550.728	551.412
157.5	544.716	544.846	545.602	546.782	547.934	549.072	550.181	550.944	551.470	551.880
160.0	546.386	546.473	546.379	547.250	548.158	549.036	549.886	550.699	551.340	551.693
162.5	546.991	547.056	547.114	546.991	547.762	548.518	549.245	549.943	550.613	551.203
165.0	547.380	547.380	547.366	547.322	547.164	547.423	547.920	548.381	548.806	549.216
167.5	546.574	546.552	546.502	546.437	546.350	546.235	545.940	546.170	546.466	546.732
170.0	545.054	544.997	544.918	544.810	544.673	544.522	544.342	544.464	543.924	543.478
172.5	542.376	542.354	542.585	542.254	542.182	542.095	541.994	541.872	541.742	541.598
175.0	539.986	539.950	539.899	539.827	539.748	539.654	539.539	539.410	539.273	539.114
177.5	536.695	536.674	536.681	536.695	536.702	536.710	536.731	536.904	536.767	536.796
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

**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	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	536.818	536.846	536.875	536.904	536.933	536.962	536.990	537.019	537.048	537.084
5.0	538.949	538.769	538.574	538.366	538.142	537.912	537.667	537.415	537.149	536.926
7.5	541.433	541.260	541.073	540.893	540.504	540.418	540.230	540.043	539.827	539.590
10.0	543.550	543.600	543.629	543.672	543.686	543.672	543.629	543.557	543.456	543.319

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CANDELA TABULATION - (Cont.)

12.5	546.970	547.171	547.193	547.186	547.128	547.034	546.905	546.739	546.401	546.062
15.0	549.511	549.756	549.958	549.979	549.835	549.698	549.432	549.014	548.561	548.071
17.5	551.614	551.542	551.570	551.563	551.498	551.333	551.131	550.901	550.627	550.166
20.0	552.024	552.319	552.586	552.874	552.794	552.722	552.370	551.938	551.434	550.894
22.5	552.262	552.600	552.902	552.953	552.917	552.888	552.787	552.398	551.966	551.376
25.0	552.067	552.442	552.578	552.622	552.622	552.578	552.506	552.262	551.837	551.002
27.5	551.038	551.203	551.592	551.952	552.190	551.880	551.441	550.858	550.253	549.612
30.0	549.209	549.929	550.310	550.296	550.267	550.030	549.792	549.410	548.510	547.603
32.5	547.027	547.380	547.790	548.086	547.978	547.697	547.200	546.682	546.250	544.990
35.0	544.054	544.500	544.802	544.968	544.896	544.759	544.471	543.557	542.758	541.750
37.5	540.144	541.037	541.390	541.498	541.433	541.231	540.770	540.108	538.927	537.761
40.0	536.126	536.630	537.120	537.588	537.530	537.091	536.465	536.011	534.910	533.470
42.5	530.834	531.806	532.786	532.721	532.656	532.368	532.116	530.885	529.517	527.954
45.0	525.082	526.032	526.759	527.227	527.429	526.961	526.046	524.974	523.829	522.252
47.5	518.818	519.890	520.812	520.812	520.733	520.459	520.157	518.854	517.622	516.002
50.0	512.402	513.194	513.554	513.842	513.907	513.454	512.906	512.237	510.970	509.270
52.5	505.008	505.735	506.333	506.520	506.455	506.160	505.800	504.691	503.438	502.056
55.0	496.692	497.642	498.348	498.701	498.852	498.492	497.599	496.620	495.533	493.841
57.5	487.699	488.902	489.888	490.133	490.212	489.910	489.233	488.167	486.634	484.942
60.0	478.080	479.290	480.168	480.737	480.974	480.521	479.930	478.613	477.094	475.265
62.5	467.669	469.015	470.030	470.815	470.815	470.462	469.685	468.259	466.675	465.026
65.0	457.142	458.410	459.605	460.195	460.109	459.842	459.137	457.646	456.156	454.320
67.5	446.263	447.494	448.682	449.129	448.819	448.740	447.962	446.551	445.140	443.254
70.0	434.981	436.298	437.465	437.767	437.407	437.602	436.601	435.283	433.894	432.655
72.5	423.439	424.469	425.297	425.441	425.426	425.282	424.606	423.612	422.503	421.682
75.0	411.365	412.236	412.848	413.021	413.021	412.812	412.344	411.502	410.623	410.206
77.5	398.894	399.845	400.392	400.601	400.709	400.414	400.003	399.283	398.354	397.944
80.0	385.898	386.489	387.043	387.562	387.943	387.396	386.741	385.999	385.366	384.761
82.5	372.665	373.068	373.406	373.968	374.580	373.795	373.133	372.686	372.406	371.563
85.0	359.438	359.971	360.554	361.498	362.592	361.361	360.353	359.734	359.280	358.366
87.5	347.414	347.990	348.631	349.812	350.942	349.740	348.530	347.875	347.220	346.435
90.0	360.475	361.505	362.290	362.426	362.117	361.570	360.115	358.567	357.034	355.529
92.5	347.414	347.990	348.631	349.812	350.942	349.740	348.530	347.875	347.220	346.435
95.0	359.438	359.971	360.554	361.498	362.592	361.361	360.353	359.734	359.280	358.366
97.5	372.665	373.068	373.406	373.968	374.580	373.795	373.133	372.686	372.406	371.563
100.0	385.898	386.489	387.043	387.562	387.943	387.396	386.741	385.999	385.366	384.761
102.5	398.894	399.845	400.392	400.601	400.709	400.414	400.003	399.283	398.354	397.944
105.0	411.365	412.236	412.848	413.021	413.021	412.812	412.344	411.502	410.623	410.206
107.5	423.439	424.469	425.297	425.441	425.426	425.282	424.606	423.612	422.503	421.682
110.0	434.981	436.298	437.465	437.767	437.407	437.602	436.601	435.283	433.894	432.655
112.5	446.263	447.494	448.682	449.129	448.819	448.740	447.962	446.551	445.140	443.254
115.0	457.142	458.410	459.605	460.195	460.109	459.842	459.137	457.646	456.156	454.320
117.5	467.669	469.015	470.030	470.815	470.815	470.462	469.685	468.259	466.675	465.026
120.0	478.080	479.290	480.168	480.737	480.974	480.521	479.930	478.613	477.094	475.265
122.5	487.699	488.902	489.888	490.133	490.212	489.910	489.233	488.167	486.634	484.942
125.0	496.692	497.642	498.348	498.701	498.852	498.492	497.599	496.620	495.533	493.841
127.5	505.008	505.735	506.333	506.520	506.455	506.160	505.800	504.691	503.438	502.056
130.0	512.402	513.194	513.554	513.842	513.907	513.454	512.906	512.237	510.970	509.270
132.5	518.818	519.890	520.812	520.812	520.733	520.459	520.157	518.854	517.622	516.002
135.0	525.082	526.032	526.759	527.227	527.429	526.961	526.046	524.981	523.829	522.252
137.5	530.834	531.806	532.786	532.721	532.656	532.368	532.116	530.885	529.517	527.954
140.0	536.119	536.630	537.120	537.588	537.530	537.091	536.465	536.011	534.910	533.470
142.5	540.144	541.037	541.390	541.498	541.433	541.231	540.770	540.108	538.927	537.761
145.0	544.054	544.500	544.802	544.968	544.896	544.759	544.471	543.557	542.758	541.750
147.5	547.027	547.380	547.790	548.086	547.978	547.697	547.200	546.682	546.250	544.990
150.0	549.209	549.929	550.310	550.296	550.267	550.030	549.792	549.410	548.510	547.603

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CANDELA TABULATION - (Cont.)

152.5	551.038	551.203	551.592	551.952	552.190	551.880	551.441	550.858	550.253	549.612
155.0	552.067	552.442	552.578	552.622	552.622	552.578	552.506	552.262	551.837	551.002
157.5	552.262	552.600	552.902	552.953	552.917	552.888	552.787	552.398	551.966	551.376
160.0	552.024	552.319	552.586	552.874	552.794	552.722	552.370	551.938	551.434	550.894
162.5	551.614	551.542	551.570	551.563	551.498	551.333	551.131	550.901	550.627	550.166
165.0	549.511	549.756	549.958	549.979	549.835	549.698	549.432	549.014	548.561	548.071
167.5	546.970	547.171	547.193	547.186	547.128	547.034	546.905	546.739	546.401	546.062
170.0	543.550	543.600	543.629	543.672	543.686	543.672	543.629	543.557	543.456	543.319
172.5	541.433	541.260	541.073	540.893	540.504	540.418	540.230	540.043	539.827	539.590
175.0	538.949	538.769	538.574	538.366	538.142	537.912	537.667	537.415	537.149	536.926
177.5	536.818	536.846	536.875	536.904	536.933	536.962	536.990	537.019	537.048	537.084
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	537.113	537.142	537.178	537.206	537.235	537.264	537.300	537.329	537.358	537.386
5.0	536.911	536.897	536.940	537.055	537.062	537.120	537.185	537.242	537.300	537.358
7.5	539.323	539.028	538.718	538.380	538.229	538.438	538.488	538.654	538.798	538.934
10.0	543.197	542.801	542.376	541.922	541.440	540.929	540.547	540.785	540.842	541.001
12.5	545.710	545.335	544.932	544.442	543.730	543.002	542.246	541.505	541.483	541.663
15.0	547.574	547.121	546.638	546.127	545.594	544.838	543.931	543.002	542.131	542.254
17.5	549.446	548.626	547.834	547.106	546.350	545.573	544.615	543.449	542.261	541.634
20.0	550.325	549.526	548.546	547.538	546.653	545.746	544.817	543.643	542.282	540.907
22.5	550.721	549.965	549.036	547.668	546.271	545.033	543.809	542.578	540.972	539.309
25.0	550.008	548.914	547.798	546.674	545.162	543.622	542.254	540.878	539.345	537.480
27.5	548.813	547.690	546.386	544.997	543.845	541.714	539.906	538.229	536.573	534.492
30.0	546.682	545.638	544.061	542.405	540.734	539.014	536.976	535.025	533.210	531.151
32.5	543.816	542.635	541.541	539.532	537.552	535.579	533.383	531.058	528.934	526.766
35.0	540.518	539.035	537.581	535.903	533.578	531.274	528.984	526.399	524.110	521.863
37.5	536.486	535.046	533.239	531.331	529.214	526.601	524.009	521.338	518.695	516.139
40.0	531.670	529.992	528.278	526.190	524.009	521.359	518.429	515.549	512.633	509.861
42.5	526.313	524.686	522.662	520.603	518.112	515.462	512.388	509.256	506.203	503.395
45.0	520.409	518.465	516.341	514.274	511.826	509.011	505.994	502.618	499.442	496.159
47.5	514.080	512.078	510.041	507.650	505.051	501.991	498.830	495.324	491.854	488.441
50.0	507.362	505.174	502.654	500.213	497.484	494.690	491.357	487.742	483.883	480.341
52.5	499.896	497.599	495.094	492.494	489.794	486.684	483.286	479.592	475.596	471.946
55.0	491.990	489.730	487.282	484.272	481.522	478.404	475.063	471.427	467.143	463.219
57.5	483.077	480.895	478.123	475.459	472.709	469.692	466.049	462.305	458.100	454.061
60.0	473.357	470.966	468.216	465.350	462.586	459.526	456.473	452.938	448.668	444.463
62.5	463.284	461.131	458.777	454.968	451.786	448.884	445.615	442.058	438.214	434.225
65.0	452.671	451.361	447.890	444.341	441.094	437.782	434.131	430.589	427.075	423.806
67.5	441.562	439.747	437.119	433.872	430.330	427.032	423.490	419.731	415.541	412.236
70.0	431.345	429.552	427.198	423.799	420.206	416.974	413.071	408.802	404.395	400.666
72.5	420.674	419.702	417.197	413.374	409.781	406.534	402.502	398.621	393.811	388.951
75.0	409.334	408.017	405.007	401.746	398.196	394.870	391.320	387.634	382.608	377.662
77.5	397.130	394.920	392.436	389.470	385.877	383.011	379.289	375.509	371.167	366.480
80.0	384.257	381.917	379.699	376.992	373.694	370.980	367.186	363.643	359.050	354.420
82.5	370.814	369.598	368.208	365.234	361.764	358.783	355.385	351.864	347.263	343.130
85.0	357.667	356.962	356.314	352.901	349.272	346.205	343.138	339.365	335.081	330.653
87.5	345.686	345.377	345.096	341.345	337.730	334.649	331.618	327.643	323.410	319.118
90.0	354.506	353.455	349.272	344.830	340.531	336.240	332.064	327.276	322.502	316.771
92.5	345.686	345.377	345.096	341.345	337.730	334.649	331.618	327.643	323.410	319.118
95.0	357.667	356.962	356.314	352.901	349.272	346.205	343.138	339.365	335.081	330.653
97.5	370.814	369.598	368.208	365.234	361.764	358.783	355.385	351.864	347.263	343.130

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CANDELA TABULATION - (Cont.)

100.0	384.257	381.917	379.699	376.992	373.694	370.980	367.186	363.643	359.050	354.420
102.5	397.130	394.920	392.436	389.470	385.877	383.011	379.289	375.509	371.167	366.480
105.0	409.334	408.017	405.007	401.746	398.196	394.870	391.320	387.634	382.608	377.662
107.5	420.674	419.702	417.197	413.374	409.781	406.534	402.502	398.621	393.811	388.951
110.0	431.345	429.552	427.198	423.799	420.206	416.974	413.071	408.802	404.395	400.666
112.5	441.562	439.747	437.119	433.872	430.330	427.032	423.490	419.731	415.541	412.236
115.0	452.678	451.361	447.890	444.341	441.094	437.782	434.131	430.589	427.075	423.806
117.5	463.284	461.131	458.777	454.968	451.786	448.884	445.615	442.058	438.214	434.225
120.0	473.357	470.966	468.216	465.350	462.586	459.526	456.473	452.938	448.668	444.463
122.5	483.077	480.895	478.123	475.459	472.709	469.692	466.049	462.305	458.100	454.061
125.0	491.990	489.730	487.282	484.272	481.522	478.404	475.063	471.427	467.143	463.219
127.5	499.896	497.599	495.094	492.494	489.794	486.684	483.286	479.592	475.596	471.946
130.0	507.362	505.174	502.654	500.213	497.484	494.690	491.357	487.742	483.883	480.341
132.5	514.080	512.078	510.041	507.650	505.051	501.991	498.830	495.324	491.854	488.441
135.0	520.409	518.465	516.341	514.274	511.826	509.011	505.994	502.618	499.442	496.159
137.5	526.313	524.686	522.662	520.603	518.112	515.462	512.388	509.256	506.203	503.395
140.0	531.670	529.992	528.278	526.190	524.009	521.359	518.429	515.549	512.633	509.861
142.5	536.486	535.046	533.239	531.331	529.214	526.601	524.009	521.338	518.695	516.139
145.0	540.518	539.035	537.581	535.903	533.578	531.274	528.984	526.399	524.110	521.863
147.5	543.816	542.635	541.541	539.532	537.552	535.579	533.383	531.058	528.934	526.766
150.0	546.682	545.638	544.061	542.405	540.734	539.014	536.976	535.025	533.210	531.151
152.5	548.813	547.690	546.386	544.997	543.845	541.714	539.906	538.229	536.573	534.492
155.0	550.008	548.914	547.798	546.674	545.162	543.622	542.254	540.878	539.345	537.480
157.5	550.721	549.965	549.036	547.668	546.271	545.033	543.809	542.578	540.972	539.309
160.0	550.325	549.526	548.546	547.538	546.653	545.746	544.817	543.643	542.282	540.907
162.5	549.446	548.626	547.834	547.106	546.350	545.573	544.615	543.449	542.261	541.634
165.0	547.574	547.121	546.638	546.127	545.594	544.838	543.931	543.002	542.131	542.254
167.5	545.710	545.335	544.932	544.442	543.730	543.002	542.246	541.505	541.483	541.663
170.0	543.197	542.801	542.376	541.922	541.440	540.929	540.547	540.785	540.842	541.001
172.5	539.323	539.028	538.718	538.380	538.229	538.438	538.488	538.654	538.798	538.934
175.0	536.911	536.897	536.940	537.055	537.062	537.120	537.185	537.242	537.300	537.358
177.5	537.113	537.142	537.178	537.206	537.235	537.264	537.300	537.329	537.358	537.386
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	537.415	537.444	537.480	537.466	537.422	537.394	537.365	537.329	537.300	537.271
5.0	537.415	537.473	537.530	537.473	537.415	537.365	537.300	537.242	537.185	537.127
7.5	539.050	539.150	539.244	539.158	539.057	538.934	538.805	538.654	538.495	538.495
10.0	541.145	541.267	541.382	541.274	541.145	541.001	540.850	540.785	540.547	540.900
12.5	541.829	541.980	542.117	541.980	541.829	541.670	541.490	541.454	542.218	542.974
15.0	542.743	542.786	542.909	542.794	542.750	542.261	542.124	542.974	543.910	544.810
17.5	541.829	542.016	542.203	542.023	541.829	541.634	542.232	543.420	544.594	545.551
20.0	541.080	541.346	541.591	541.354	541.080	540.900	542.254	543.622	544.795	545.731
22.5	538.812	539.014	539.237	539.021	538.819	539.287	540.950	542.563	543.787	545.011
25.0	536.350	536.573	536.810	536.573	536.350	537.451	539.323	540.864	542.239	543.607
27.5	532.656	532.850	533.088	532.858	532.656	534.463	536.558	538.214	539.892	541.692
30.0	528.890	528.890	529.135	528.890	528.869	531.130	533.189	535.010	536.940	538.992
32.5	524.182	523.714	523.951	523.714	524.203	526.738	528.912	531.043	533.362	535.565
35.0	519.127	518.249	518.494	518.249	519.098	521.842	524.088	526.385	528.962	531.259
37.5	513.259	511.891	512.150	511.898	513.238	516.118	518.674	521.316	523.994	526.586
40.0	506.916	505.102	505.382	505.109	506.894	509.846	512.611	515.527	518.407	521.338
42.5	500.105	497.794	498.074	497.794	500.076	503.374	506.189	509.242	512.366	515.448
45.0	492.984	490.212	490.514	490.212	492.962	496.138	499.421	502.596	505.980	508.997

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CANDELA TABULATION - (Cont.)

47.5	485.050	481.910	482.234	481.910	485.028	488.426	491.832	495.302	498.816	501.977
50.0	476.712	473.443	473.450	473.429	476.690	480.319	483.862	487.721	491.335	494.676
52.5	468.230	464.717	464.407	464.702	468.216	471.924	475.574	479.570	483.271	486.677
55.0	459.166	455.630	455.033	455.609	459.151	463.198	467.129	471.413	475.049	478.390
57.5	449.798	446.126	445.270	446.112	449.784	454.046	458.086	462.283	466.034	469.685
60.0	440.093	436.234	435.060	436.219	440.078	444.442	448.675	452.923	456.458	459.518
62.5	429.797	425.858	424.332	425.844	429.782	434.210	438.199	442.044	445.601	448.862
65.0	419.299	415.238	413.323	415.231	419.285	423.799	427.068	430.582	434.117	437.774
67.5	408.478	404.590	402.408	404.582	408.463	412.229	415.534	419.724	423.475	427.025
70.0	397.210	393.768	391.284	393.754	397.195	400.658	404.381	408.787	413.078	416.966
72.5	384.833	382.097	379.598	382.090	384.826	388.937	393.797	398.614	402.494	406.526
75.0	372.802	369.958	367.733	369.958	372.794	377.647	382.601	387.626	391.313	394.862
77.5	360.799	356.854	354.989	356.846	360.792	366.473	371.160	375.502	379.282	383.004
80.0	349.207	344.110	342.158	344.102	349.200	354.413	359.042	363.636	367.178	370.973
82.5	337.586	332.496	329.342	332.489	337.579	343.123	347.256	351.864	355.378	358.776
85.0	325.282	320.911	316.584	320.904	325.274	330.646	335.081	339.358	343.138	346.205
87.5	314.294	309.766	304.963	309.766	314.294	319.118	323.402	327.643	331.618	334.649
90.0	311.537	305.554	306.432	305.546	311.486	316.728	322.459	327.240	332.028	336.197
92.5	314.294	309.766	304.963	309.766	314.294	319.118	323.402	327.643	331.618	334.649
95.0	325.282	320.911	316.584	320.904	325.274	330.646	335.081	339.358	343.138	346.205
97.5	337.586	332.496	329.342	332.489	337.579	343.123	347.256	351.864	355.378	358.776
100.0	349.207	344.110	342.158	344.102	349.200	354.413	359.042	363.636	367.178	370.973
102.5	360.799	356.854	354.989	356.846	360.792	366.473	371.160	375.502	379.282	383.004
105.0	372.802	369.958	367.733	369.958	372.794	377.647	382.601	387.626	391.313	394.862
107.5	384.833	382.097	379.598	382.090	384.826	388.937	393.797	398.614	402.494	406.526
110.0	397.210	393.768	391.284	393.754	397.195	400.658	404.381	408.787	413.078	416.966
112.5	408.478	404.590	402.408	404.582	408.463	412.229	415.534	419.724	423.475	427.025
115.0	419.299	415.238	413.323	415.231	419.285	423.799	427.068	430.582	434.117	437.774
117.5	429.797	425.858	424.332	425.844	429.782	434.210	438.199	442.044	445.601	448.862
120.0	440.093	436.234	435.060	436.219	440.078	444.442	448.675	452.923	456.458	459.518
122.5	449.798	446.126	445.270	446.112	449.784	454.046	458.086	462.283	466.034	469.685
125.0	459.166	455.630	455.033	455.609	459.151	463.198	467.129	471.413	475.049	478.390
127.5	468.230	464.717	464.407	464.702	468.216	471.924	475.574	479.570	483.271	486.677
130.0	476.712	473.443	473.450	473.429	476.690	480.319	483.862	487.721	491.335	494.676
132.5	485.050	481.910	482.234	481.910	485.028	488.426	491.832	495.302	498.816	501.977
135.0	492.984	490.212	490.514	490.212	492.962	496.138	499.421	502.596	505.980	508.997
137.5	500.105	497.794	498.074	497.794	500.076	503.374	506.189	509.242	512.366	515.448
140.0	506.916	505.102	505.382	505.109	506.894	509.846	512.611	515.527	518.407	521.338
142.5	513.259	511.891	512.150	511.898	513.238	516.118	518.674	521.316	523.994	526.586
145.0	519.127	518.249	518.494	518.249	519.098	521.842	524.088	526.385	528.962	531.259
147.5	524.182	523.714	523.951	523.714	524.203	526.738	528.912	531.043	533.362	535.565
150.0	528.890	528.890	529.135	528.890	528.869	531.130	533.189	535.010	536.940	538.992
152.5	532.656	532.850	533.088	532.858	532.656	534.463	536.558	538.214	539.892	541.692
155.0	536.350	536.573	536.810	536.573	536.350	537.451	539.323	540.864	542.239	543.607
157.5	538.812	539.014	539.237	539.021	538.819	539.287	540.950	542.563	543.787	545.011
160.0	541.080	541.346	541.591	541.354	541.080	540.900	542.254	543.622	544.795	545.731
162.5	541.829	542.016	542.203	542.023	541.829	541.634	542.232	543.420	544.594	545.551
165.0	542.743	542.786	542.909	542.794	542.750	542.261	542.124	542.974	543.910	544.810
167.5	541.829	541.980	542.117	541.980	541.829	541.670	541.490	541.454	542.218	542.974
170.0	541.145	541.267	541.382	541.274	541.145	541.001	540.850	540.785	540.547	540.900
172.5	539.050	539.150	539.244	539.158	539.057	538.934	538.805	538.654	538.495	538.495
175.0	537.415	537.473	537.530	537.473	537.415	537.365	537.300	537.242	537.185	537.127
177.5	537.415	537.444	537.480	537.466	537.422	537.394	537.365	537.329	537.300	537.271
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	537.242	537.206	537.178	537.149	537.120	537.084	537.055	537.026	536.998	536.969
5.0	537.070	537.055	536.947	536.890	536.911	536.926	537.127	537.394	537.646	537.890
7.5	538.229	538.351	538.690	539.006	539.294	539.561	539.806	540.014	540.209	540.389
10.0	541.411	541.901	542.354	542.772	543.168	543.305	543.434	543.542	543.614	543.658
12.5	543.708	544.414	544.918	545.321	545.695	546.041	546.379	546.725	546.890	547.020
15.0	545.573	546.113	546.624	547.106	547.560	548.050	548.546	549.000	549.418	549.684
17.5	546.329	547.085	547.819	548.604	549.425	550.145	550.620	550.886	551.124	551.326
20.0	546.638	547.517	548.525	549.511	550.310	550.886	551.419	551.923	552.362	552.715
22.5	546.235	547.646	549.014	549.950	550.706	551.362	551.959	552.384	552.780	552.888
25.0	545.141	546.660	547.790	548.899	549.994	550.987	551.830	552.262	552.499	552.578
27.5	543.917	544.982	546.372	547.675	548.798	549.605	550.246	550.858	551.441	551.880
30.0	540.720	542.390	544.046	545.623	546.674	547.596	548.503	549.446	549.792	550.030
32.5	537.538	539.518	541.519	542.628	543.809	544.982	546.228	546.682	547.200	547.697
35.0	533.563	535.874	537.566	539.028	540.504	541.750	542.750	543.557	544.464	544.766
37.5	529.193	531.324	533.232	535.039	536.486	537.754	538.920	540.086	540.778	541.238
40.0	523.994	526.183	528.271	529.985	531.662	533.462	534.910	536.047	536.465	537.091
42.5	518.098	520.596	522.655	524.671	526.306	527.954	529.510	530.885	532.123	532.368
45.0	511.812	514.267	516.334	518.458	520.402	522.245	523.822	524.981	526.046	526.968
47.5	505.037	507.636	510.034	512.071	514.073	516.002	517.615	518.854	520.142	520.466
50.0	497.470	500.198	502.646	505.166	507.362	509.263	510.970	512.237	512.914	513.454
52.5	489.787	492.487	495.086	497.592	499.889	502.042	503.438	504.691	505.793	506.160
55.0	481.514	484.265	487.267	489.722	491.990	493.834	495.533	496.627	497.599	498.499
57.5	472.694	475.452	478.116	480.888	483.070	484.942	486.634	488.167	489.233	489.917
60.0	462.578	465.343	468.209	470.959	473.357	475.258	477.086	478.613	479.952	480.521
62.5	451.778	454.961	458.762	461.124	463.277	465.019	466.675	468.259	469.685	470.470
65.0	441.079	444.326	447.883	451.354	452.671	454.313	456.156	457.646	459.130	459.842
67.5	430.322	433.858	437.112	439.740	441.562	443.246	445.133	446.544	447.962	448.740
70.0	420.199	423.792	427.190	429.545	431.345	432.655	433.886	435.276	436.601	437.609
72.5	409.774	413.366	417.182	419.702	420.674	421.682	422.503	423.612	424.606	425.282
75.0	398.203	401.738	405.000	408.017	409.327	410.198	410.616	411.502	412.344	412.812
77.5	385.877	389.462	392.443	394.913	397.123	397.944	398.347	399.283	400.003	400.414
80.0	373.687	376.985	379.699	381.910	384.264	384.761	385.366	385.992	386.741	387.396
82.5	361.757	365.234	368.208	369.590	370.807	371.556	372.413	372.679	373.133	373.788
85.0	349.265	352.894	356.314	356.962	357.667	358.366	359.273	359.734	360.353	361.361
87.5	337.730	341.345	345.096	345.377	345.686	346.435	347.220	347.875	348.530	349.740
90.0	340.488	344.851	349.236	353.434	354.485	355.507	357.012	358.546	360.094	361.548
92.5	337.730	341.345	345.096	345.377	345.686	346.435	347.220	347.875	348.530	349.740
95.0	349.265	352.894	356.314	356.962	357.667	358.366	359.273	359.734	360.353	361.361
97.5	361.757	365.234	368.208	369.590	370.807	371.556	372.413	372.679	373.133	373.788
100.0	373.687	376.985	379.699	381.910	384.264	384.761	385.366	385.992	386.741	387.396
102.5	385.877	389.462	392.443	394.913	397.123	397.944	398.347	399.283	400.003	400.414
105.0	398.203	401.738	405.000	408.017	409.327	410.198	410.616	411.502	412.344	412.812
107.5	409.774	413.366	417.182	419.702	420.674	421.682	422.503	423.612	424.606	425.282
110.0	420.199	423.792	427.190	429.545	431.345	432.655	433.886	435.276	436.601	437.609
112.5	430.322	433.858	437.112	439.740	441.562	443.246	445.133	446.544	447.962	448.740
115.0	441.079	444.326	447.883	451.354	452.671	454.313	456.156	457.646	459.130	459.842
117.5	451.778	454.961	458.762	461.124	463.277	465.019	466.675	468.259	469.685	470.470
120.0	462.578	465.343	468.209	470.959	473.357	475.258	477.086	478.613	479.952	480.521
122.5	472.694	475.452	478.116	480.888	483.070	484.942	486.634	488.167	489.233	489.917
125.0	481.514	484.265	487.267	489.722	491.990	493.834	495.533	496.627	497.599	498.499
127.5	489.787	492.487	495.086	497.592	499.889	502.042	503.438	504.691	505.793	506.160
130.0	497.470	500.198	502.646	505.166	507.362	509.263	510.970	512.237	512.914	513.454

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CANDELA TABULATION - (Cont.)

132.5	505.037	507.636	510.034	512.071	514.073	516.002	517.615	518.854	520.142	520.466
135.0	511.812	514.267	516.334	518.458	520.402	522.245	523.822	524.981	526.046	526.968
137.5	518.098	520.596	522.655	524.671	526.306	527.954	529.510	530.885	532.123	532.368
140.0	523.994	526.183	528.271	529.985	531.662	533.462	534.910	536.047	536.465	537.091
142.5	529.193	531.324	533.232	535.039	536.486	537.754	538.920	540.086	540.778	541.238
145.0	533.563	535.874	537.566	539.028	540.504	541.750	542.750	543.557	544.464	544.766
147.5	537.538	539.518	541.519	542.628	543.809	544.982	546.228	546.682	547.200	547.697
150.0	540.720	542.390	544.046	545.623	546.674	547.596	548.503	549.446	549.792	550.030
152.5	543.917	544.982	546.372	547.675	548.798	549.605	550.246	550.858	551.441	551.880
155.0	545.141	546.660	547.790	548.899	549.994	550.987	551.830	552.262	552.499	552.578
157.5	546.235	547.646	549.014	549.950	550.706	551.362	551.959	552.384	552.780	552.888
160.0	546.638	547.517	548.525	549.511	550.310	550.886	551.419	551.923	552.362	552.715
162.5	546.329	547.085	547.819	548.604	549.425	550.145	550.620	550.886	551.124	551.326
165.0	545.573	546.113	546.624	547.106	547.560	548.050	548.546	549.000	549.418	549.684
167.5	543.708	544.414	544.918	545.321	545.695	546.041	546.379	546.725	546.890	547.020
170.0	541.411	541.901	542.354	542.772	543.168	543.305	543.434	543.542	543.614	543.658
172.5	538.229	538.351	538.690	539.006	539.294	539.561	539.806	540.014	540.209	540.389
175.0	537.070	537.055	536.947	536.890	536.911	536.926	537.127	537.394	537.646	537.890
177.5	537.242	537.206	537.178	537.149	537.120	537.084	537.055	537.026	536.998	536.969
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

**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	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	536.940	536.911	536.882	536.854	536.825	536.796	536.774	536.962	536.789	536.710
5.0	538.121	538.337	538.546	538.740	538.927	539.093	539.251	539.388	539.518	539.626
7.5	540.490	540.871	541.058	541.591	541.418	541.584	541.728	541.858	541.980	542.081
10.0	543.672	543.658	543.614	543.586	543.528	543.456	543.910	544.450	544.327	544.500
12.5	547.114	547.164	547.178	547.150	546.962	546.725	546.458	546.156	545.933	546.228
15.0	549.828	549.965	549.950	549.742	549.504	549.187	548.798	548.374	547.913	547.416
17.5	551.491	551.556	551.563	551.534	551.606	551.196	550.613	549.950	549.245	548.518
20.0	552.787	552.845	552.586	552.319	552.024	551.693	551.340	550.699	549.886	549.036
22.5	552.917	552.953	552.902	552.600	552.262	551.880	551.470	550.944	550.188	549.079
25.0	552.614	552.622	552.578	552.449	552.074	551.419	550.735	550.022	549.288	548.388
27.5	552.190	551.952	551.599	551.203	551.038	550.368	549.706	548.806	547.798	546.660
30.0	550.260	550.296	550.310	549.936	549.216	548.352	547.538	546.725	545.508	544.270
32.5	547.978	548.093	547.798	547.387	547.034	546.005	545.299	544.039	543.074	541.361
35.0	544.903	544.975	544.810	544.493	544.097	543.125	541.915	540.497	539.136	537.847
37.5	541.433	541.505	541.397	541.051	540.158	539.165	538.106	536.825	535.241	533.462
40.0	537.538	537.595	537.127	536.645	536.134	535.147	533.585	531.922	530.158	528.206
42.5	532.663	532.728	532.771	531.821	530.856	529.877	528.199	526.450	524.686	522.857
45.0	527.436	527.242	526.766	526.046	525.096	523.836	522.353	520.711	518.594	516.535
47.5	520.740	520.819	520.819	519.905	518.825	517.702	516.132	514.246	512.359	510.019
50.0	513.914	513.850	513.562	513.209	512.417	510.941	509.263	507.341	505.202	502.711
52.5	506.462	506.527	506.347	505.750	505.015	503.647	501.862	499.867	497.570	494.971
55.0	498.859	498.708	498.355	497.650	496.706	495.396	493.913	491.738	489.348	486.850
57.5	490.219	490.140	489.895	488.909	487.706	486.382	484.625	482.681	480.283	477.850
60.0	480.974	480.744	480.182	479.297	478.094	476.568	474.840	472.745	470.261	467.597
62.5	470.822	470.822	470.038	469.022	467.676	466.265	464.681	462.845	460.541	457.322
65.0	460.109	460.195	459.612	458.417	457.150	455.580	454.162	452.945	450.108	446.767
67.5	448.819	449.129	448.690	447.502	446.270	444.600	443.074	441.598	439.330	436.190
70.0	437.407	437.774	437.472	436.298	434.981	433.908	432.770	431.215	429.062	426.002
72.5	425.426	425.441	425.297	424.469	423.439	422.726	422.374	421.164	419.191	415.390
75.0	413.021	413.014	412.848	412.236	411.365	411.293	410.551	409.421	406.807	403.589
77.5	400.702	400.601	400.392	399.852	398.894	398.750	398.117	396.295	393.595	390.809

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CANDELA TABULATION - (Cont.)

80.0	387.943	387.562	387.036	386.489	385.898	385.459	384.674	382.961	380.858	378.245
82.5	374.580	373.961	373.406	373.068	372.665	372.118	371.426	370.339	369.036	366.235
85.0	362.592	361.498	360.554	359.971	359.438	358.740	358.092	357.437	356.839	353.578
87.5	350.942	349.812	348.631	347.990	347.414	346.615	346.018	345.607	345.542	341.683
90.0	362.102	362.412	362.282	361.498	360.475	359.568	358.884	358.481	356.393	352.404
92.5	350.942	349.812	348.631	347.990	347.414	346.615	346.018	345.607	345.542	341.683
95.0	362.592	361.498	360.554	359.971	359.438	358.740	358.092	357.437	356.839	353.578
97.5	374.580	373.961	373.406	373.068	372.665	372.118	371.426	370.339	369.036	366.235
100.0	387.943	387.562	387.036	386.489	385.898	385.459	384.674	382.961	380.858	378.245
102.5	400.702	400.601	400.392	399.852	398.894	398.750	398.117	396.295	393.595	390.809
105.0	413.021	413.014	412.848	412.236	411.365	411.293	410.551	409.421	406.807	403.589
107.5	425.426	425.441	425.297	424.469	423.439	422.726	422.374	421.164	419.191	415.390
110.0	437.407	437.774	437.472	436.298	434.981	433.908	432.770	431.215	429.062	426.002
112.5	448.819	449.129	448.690	447.502	446.270	444.600	443.074	441.598	439.330	436.190
115.0	460.109	460.195	459.612	458.417	457.150	455.580	454.162	452.945	450.108	446.767
117.5	470.822	470.822	470.038	469.022	467.676	466.265	464.681	462.845	460.541	457.322
120.0	480.974	480.744	480.182	479.297	478.094	476.568	474.840	472.745	470.261	467.597
122.5	490.219	490.140	489.895	488.909	487.706	486.382	484.625	482.681	480.283	477.850
125.0	498.859	498.708	498.355	497.650	496.706	495.396	493.913	491.738	489.348	486.850
127.5	506.462	506.527	506.347	505.750	505.015	503.647	501.862	499.867	497.570	494.971
130.0	513.914	513.850	513.562	513.209	512.417	510.941	509.263	507.341	505.202	502.711
132.5	520.740	520.819	520.819	519.905	518.825	517.702	516.132	514.246	512.359	510.019
135.0	527.436	527.242	526.766	526.046	525.096	523.836	522.353	520.711	518.594	516.535
137.5	532.663	532.728	532.771	531.821	530.856	529.877	528.199	526.450	524.686	522.857
140.0	537.538	537.595	537.127	536.645	536.134	535.147	533.585	531.922	530.158	528.206
142.5	541.433	541.505	541.397	541.051	540.158	539.165	538.106	536.825	535.241	533.462
145.0	544.903	544.975	544.810	544.493	544.097	543.125	541.915	540.497	539.136	537.847
147.5	547.978	548.093	547.798	547.387	547.034	546.005	545.299	544.039	543.074	541.361
150.0	550.260	550.296	550.310	549.936	549.216	548.352	547.538	546.725	545.508	544.270
152.5	552.190	551.952	551.599	551.203	551.038	550.368	549.706	548.806	547.798	546.660
155.0	552.614	552.622	552.578	552.449	552.074	551.419	550.735	550.022	549.288	548.388
157.5	552.917	552.953	552.902	552.600	552.262	551.880	551.470	550.944	550.188	549.079
160.0	552.787	552.845	552.586	552.319	552.024	551.693	551.340	550.699	549.886	549.036
162.5	551.491	551.556	551.563	551.534	551.606	551.196	550.613	549.950	549.245	548.518
165.0	549.828	549.965	549.950	549.742	549.504	549.187	548.798	548.374	547.913	547.416
167.5	547.114	547.164	547.178	547.150	546.962	546.725	546.458	546.156	545.933	546.228
170.0	543.672	543.658	543.614	543.586	543.528	543.456	543.910	544.450	544.327	544.500
172.5	540.490	540.871	541.058	541.591	541.418	541.584	541.728	541.858	541.980	542.081
175.0	538.121	538.337	538.546	538.740	538.927	539.093	539.251	539.388	539.518	539.626
177.5	536.940	536.911	536.882	536.854	536.825	536.796	536.774	536.962	536.789	536.710
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

Vert. Angles **Horizontal Angles**

	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5
0.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	536.702	536.695	536.681	536.674	536.695	536.688	536.717	536.767	536.767	536.738
5.0	539.726	539.806	539.870	539.928	539.964	539.986	540.072	540.050	540.115	540.050
7.5	542.167	542.239	542.621	542.398	542.362	542.369	542.369	542.362	542.448	542.354
10.0	544.658	544.788	544.896	544.982	545.040	545.069	545.076	545.328	545.141	545.249
12.5	546.336	546.430	546.494	546.538	546.559	546.689	546.538	546.480	546.523	546.466
15.0	547.157	547.315	547.358	547.373	547.373	547.351	547.301	547.236	547.236	547.222
17.5	547.762	546.991	547.114	547.056	546.991	546.912	546.818	546.948	546.847	546.934
20.0	548.165	547.258	546.379	546.473	546.394	546.293	546.178	546.048	545.947	546.034
22.5	547.942	546.790	545.609	544.860	544.723	544.536	544.385	544.284	543.960	544.270
25.0	547.078	545.702	544.306	542.902	542.484	542.239	541.987	541.742	541.937	541.728

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CANDELA TABULATION - (Cont.)

27.5	545.508	543.809	542.153	540.497	539.251	539.057	538.711	538.430	538.243	538.423
30.0	542.887	541.397	539.489	537.595	535.738	535.241	534.895	534.578	534.406	534.564
32.5	539.669	537.818	535.910	533.729	531.576	530.410	529.999	529.618	529.459	529.610
35.0	535.882	533.894	531.835	529.452	527.018	525.074	524.664	524.232	524.095	524.225
37.5	531.547	529.171	526.723	524.340	521.698	519.142	518.436	517.932	517.802	517.918
40.0	526.277	524.110	521.489	518.861	515.902	513.108	511.783	511.178	511.070	511.171
42.5	520.538	518.213	515.311	512.374	509.414	506.347	504.403	503.762	503.698	503.748
45.0	514.253	511.668	508.910	505.714	502.740	499.414	496.836	496.152	496.152	496.138
47.5	507.730	504.785	501.739	498.341	495.036	491.602	488.268	487.606	487.649	487.591
50.0	500.076	497.412	494.172	490.824	487.159	483.595	480.017	478.807	478.886	478.800
52.5	492.343	489.514	486.230	482.666	478.721	475.070	471.269	469.534	469.656	469.526
55.0	484.092	481.118	477.900	474.178	470.268	466.366	462.384	460.058	460.253	460.051
57.5	474.955	472.270	468.922	465.286	461.146	456.934	452.830	449.878	450.202	449.870
60.0	464.904	462.053	459.036	455.638	451.548	447.394	443.153	439.553	439.927	439.553
62.5	454.118	451.289	448.142	444.758	441.065	436.982	432.698	428.580	428.911	428.573
65.0	443.390	440.273	436.752	433.174	429.689	426.254	422.172	417.478	417.751	417.470
67.5	432.662	429.480	425.981	422.266	418.219	414.634	411.084	406.584	406.498	406.562
70.0	422.453	419.227	415.490	411.271	406.865	402.876	399.571	395.712	395.136	395.698
72.5	411.840	408.694	404.741	400.817	396.180	391.097	387.065	383.789	383.033	383.774
75.0	399.953	396.691	393.242	389.506	384.646	379.534	374.760	371.534	370.843	371.520
77.5	387.533	384.588	381.053	377.194	372.881	368.165	362.563	358.200	357.617	358.178
80.0	375.055	372.370	368.626	365.018	360.533	355.774	350.618	345.197	344.340	345.190
82.5	362.815	359.827	356.472	352.973	348.394	344.153	338.695	333.367	331.006	333.367
85.0	349.985	346.896	343.865	340.106	335.837	331.366	326.016	321.487	317.693	321.480
87.5	337.932	334.987	331.978	328.010	323.798	319.478	314.662	310.046	305.525	310.046
90.0	348.538	344.542	340.279	336.182	331.733	325.879	320.904	320.220	319.954	320.198
92.5	337.932	334.987	331.978	328.010	323.798	319.478	314.662	310.046	305.525	310.046
95.0	349.985	346.896	343.865	340.106	335.837	331.366	326.016	321.487	317.693	321.480
97.5	362.815	359.827	356.472	352.973	348.394	344.153	338.695	333.367	331.006	333.367
100.0	375.055	372.370	368.626	365.018	360.533	355.774	350.618	345.197	344.340	345.190
102.5	387.533	384.588	381.053	377.194	372.881	368.165	362.563	358.200	357.617	358.178
105.0	399.953	396.691	393.242	389.506	384.646	379.534	374.760	371.534	370.843	371.520
107.5	411.840	408.694	404.741	400.817	396.180	391.097	387.065	383.789	383.033	383.774
110.0	422.453	419.227	415.490	411.271	406.865	402.876	399.571	395.712	395.136	395.698
112.5	432.662	429.480	425.981	422.266	418.219	414.634	411.084	406.584	406.498	406.562
115.0	443.390	440.273	436.752	433.174	429.689	426.254	422.172	417.478	417.751	417.470
117.5	454.118	451.289	448.142	444.758	441.065	436.982	432.698	428.580	428.911	428.573
120.0	464.904	462.053	459.036	455.638	451.548	447.394	443.153	439.553	439.927	439.553
122.5	474.955	472.270	468.922	465.286	461.146	456.934	452.830	449.878	450.202	449.870
125.0	484.092	481.118	477.900	474.178	470.268	466.366	462.384	460.058	460.253	460.051
127.5	492.343	489.514	486.230	482.666	478.721	475.070	471.269	469.534	469.656	469.526
130.0	500.076	497.412	494.172	490.824	487.159	483.595	480.017	478.807	478.886	478.800
132.5	507.730	504.785	501.739	498.341	495.036	491.602	488.268	487.606	487.649	487.591
135.0	514.253	511.668	508.910	505.714	502.740	499.414	496.836	496.152	496.152	496.138
137.5	520.538	518.213	515.311	512.374	509.414	506.347	504.403	503.762	503.698	503.748
140.0	526.277	524.110	521.489	518.861	515.902	513.108	511.783	511.178	511.070	511.171
142.5	531.547	529.171	526.723	524.340	521.698	519.142	518.436	517.932	517.802	517.918
145.0	535.882	533.894	531.835	529.452	527.018	525.074	524.664	524.232	524.095	524.225
147.5	539.669	537.818	535.910	533.729	531.576	530.410	529.999	529.618	529.459	529.610
150.0	542.887	541.397	539.489	537.595	535.738	535.241	534.895	534.578	534.406	534.564
152.5	545.508	543.809	542.153	540.497	539.251	539.057	538.711	538.430	538.243	538.423
155.0	547.078	545.702	544.306	542.902	542.484	542.239	541.987	541.742	541.937	541.728
157.5	547.942	546.790	545.609	544.860	544.723	544.536	544.385	544.284	543.960	544.270
160.0	548.165	547.258	546.379	546.473	546.394	546.293	546.178	546.048	545.947	546.034
162.5	547.762	546.991	547.114	547.056	546.991	546.912	546.818	546.948	546.847	546.934
165.0	547.157	547.315	547.358	547.373	547.373	547.351	547.301	547.236	547.236	547.222

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CANDELA TABULATION - (Cont.)

167.5	546.336	546.430	546.494	546.538	546.559	546.689	546.538	546.480	546.523	546.466
170.0	544.658	544.788	544.896	544.982	545.040	545.069	545.076	545.328	545.141	545.249
172.5	542.167	542.239	542.621	542.398	542.362	542.369	542.369	542.362	542.448	542.354
175.0	539.726	539.806	539.870	539.928	539.964	539.986	540.072	540.050	540.115	540.050
177.5	536.702	536.695	536.681	536.674	536.695	536.688	536.717	536.767	536.767	536.738
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

**Vert.
Angles**

Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	536.710	536.681	536.652	536.954	536.666	536.674	536.688	536.695	536.774	536.947
5.0	539.993	539.971	539.950	539.906	539.856	539.791	539.712	539.611	539.503	539.374
7.5	542.354	542.362	542.347	542.383	542.606	542.225	542.153	542.066	541.966	541.843
10.0	545.062	545.054	545.026	544.968	544.882	544.774	544.644	544.493	544.313	544.111
12.5	546.523	546.674	546.552	546.523	546.480	546.415	546.322	546.250	545.904	546.098
15.0	547.286	547.337	547.358	547.366	547.344	547.308	547.135	547.358	547.855	548.316
17.5	546.804	546.898	546.977	547.049	547.106	546.962	547.704	548.460	549.194	549.893
20.0	546.170	546.278	546.379	546.458	546.358	547.200	548.107	548.986	549.828	550.642
22.5	544.370	544.522	544.709	544.831	545.551	546.732	547.891	549.022	550.138	550.879
25.0	541.973	542.225	542.477	542.844	544.255	545.645	547.020	548.323	549.223	549.958
27.5	538.697	539.042	539.230	540.439	542.102	543.758	545.364	546.595	547.733	548.748
30.0	534.888	535.226	535.687	537.538	539.438	541.339	542.822	544.205	545.443	546.660
32.5	529.985	530.402	531.526	533.671	535.860	537.754	539.604	541.296	543.038	543.974
35.0	524.657	525.053	526.961	529.402	531.778	533.837	535.817	537.797	539.071	540.425
37.5	518.422	519.091	521.640	524.290	526.666	529.106	531.490	533.398	535.176	536.760
40.0	511.769	513.065	515.858	518.803	521.438	524.052	526.212	528.142	530.093	531.850
42.5	504.396	506.304	509.364	512.323	515.254	518.155	520.474	522.792	524.614	526.378
45.0	496.829	499.370	502.697	505.656	508.853	511.603	514.195	516.463	518.522	520.639
47.5	488.239	491.558	494.986	498.283	501.682	504.727	507.665	509.954	512.294	514.174
50.0	479.974	483.552	487.109	490.774	494.114	497.354	500.018	502.646	505.138	507.276
52.5	471.233	475.027	478.678	482.609	486.180	489.456	492.286	494.906	497.506	499.795
55.0	462.348	466.322	470.218	474.127	477.842	481.068	484.034	486.792	489.283	491.674
57.5	452.794	456.898	461.095	465.235	468.871	472.212	474.898	477.785	480.226	482.616
60.0	443.124	447.358	451.498	455.580	458.986	461.995	464.846	467.539	470.203	472.687
62.5	432.670	436.946	441.022	444.708	448.092	451.260	454.061	457.272	460.490	462.787
65.0	422.143	426.211	429.646	433.130	436.702	440.230	443.340	446.717	450.058	452.887
67.5	411.048	414.598	418.169	422.222	425.938	429.430	432.619	436.147	439.286	441.547
70.0	399.542	402.840	406.829	411.235	415.454	419.191	422.410	425.959	429.012	431.165
72.5	387.043	391.068	396.151	400.788	404.705	408.744	411.804	415.354	419.155	421.114
75.0	374.731	379.512	384.617	389.484	393.206	396.662	399.917	403.567	406.771	409.385
77.5	362.549	368.143	372.859	377.165	381.024	384.559	387.504	390.780	393.559	396.259
80.0	350.604	355.759	360.518	364.997	368.604	372.348	375.034	378.223	380.837	382.939
82.5	338.688	344.138	348.379	352.958	356.458	359.813	362.801	366.214	369.014	370.318
85.0	326.009	331.351	335.830	340.099	343.850	346.882	349.978	353.563	356.825	357.422
87.5	314.654	319.478	323.791	328.010	331.970	334.980	337.925	341.676	345.542	345.600
90.0	320.875	325.778	331.632	336.067	340.164	344.412	348.480	352.274	356.270	358.322
92.5	314.654	319.478	323.791	328.010	331.970	334.980	337.925	341.676	345.542	345.600
95.0	326.009	331.351	335.830	340.099	343.850	346.882	349.978	353.563	356.825	357.422
97.5	338.688	344.138	348.379	352.958	356.458	359.813	362.801	366.214	369.014	370.318
100.0	350.604	355.759	360.518	364.997	368.604	372.348	375.034	378.223	380.837	382.939
102.5	362.549	368.143	372.859	377.165	381.024	384.559	387.504	390.780	393.559	396.259
105.0	374.731	379.512	384.617	389.484	393.206	396.662	399.917	403.567	406.771	409.385
107.5	387.043	391.068	396.151	400.788	404.705	408.744	411.804	415.354	419.155	421.114
110.0	399.542	402.840	406.829	411.235	415.454	419.191	422.410	425.959	429.012	431.165
112.5	411.048	414.598	418.169	422.222	425.938	429.430	432.619	436.147	439.286	441.547

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CANDELA TABULATION - (Cont.)

115.0	422.143	426.211	429.646	433.130	436.702	440.230	443.340	446.717	450.058	452.887
117.5	432.670	436.946	441.022	444.708	448.092	451.260	454.061	457.272	460.490	462.787
120.0	443.124	447.358	451.498	455.587	458.986	461.995	464.846	467.539	470.203	472.687
122.5	452.794	456.898	461.095	465.235	468.871	472.212	474.898	477.785	480.226	482.616
125.0	462.348	466.322	470.218	474.127	477.842	481.068	484.034	486.792	489.283	491.674
127.5	471.233	475.027	478.678	482.609	486.180	489.456	492.286	494.906	497.506	499.795
130.0	479.974	483.552	487.109	490.774	494.114	497.354	500.018	502.646	505.138	507.276
132.5	488.239	491.558	494.986	498.283	501.682	504.727	507.665	509.954	512.294	514.174
135.0	496.829	499.370	502.697	505.656	508.853	511.603	514.195	516.463	518.522	520.639
137.5	504.396	506.304	509.364	512.323	515.254	518.155	520.474	522.792	524.614	526.378
140.0	511.769	513.065	515.858	518.803	521.438	524.052	526.212	528.142	530.093	531.850
142.5	518.422	519.091	521.640	524.290	526.666	529.106	531.490	533.398	535.176	536.760
145.0	524.657	525.053	526.961	529.402	531.778	533.837	535.817	537.797	539.071	540.425
147.5	529.985	530.402	531.526	533.671	535.860	537.754	539.604	541.296	543.038	543.974
150.0	534.888	535.226	535.687	537.538	539.438	541.339	542.822	544.205	545.443	546.660
152.5	538.697	539.042	539.230	540.439	542.102	543.758	545.364	546.595	547.733	548.748
155.0	541.973	542.225	542.477	542.844	544.255	545.645	547.020	548.323	549.223	549.958
157.5	544.370	544.522	544.709	544.831	545.551	546.732	547.891	549.022	550.138	550.879
160.0	546.170	546.278	546.379	546.458	546.358	547.200	548.107	548.986	549.828	550.642
162.5	546.804	546.898	546.977	547.049	547.106	546.962	547.704	548.460	549.194	549.893
165.0	547.286	547.337	547.358	547.366	547.344	547.308	547.135	547.358	547.855	548.316
167.5	546.523	546.674	546.552	546.523	546.480	546.415	546.322	546.250	545.904	546.098
170.0	545.062	545.054	545.026	544.968	544.882	544.774	544.644	544.493	544.313	544.111
172.5	542.354	542.362	542.347	542.383	542.606	542.225	542.153	542.066	541.966	541.843
175.0	539.993	539.971	539.950	539.906	539.856	539.791	539.712	539.611	539.503	539.374
177.5	536.710	536.681	536.652	536.954	536.666	536.674	536.688	536.695	536.774	536.947
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

**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	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	536.760	536.782	536.810	536.839	536.868	536.897	536.926	536.954	536.983	537.012
5.0	539.237	539.078	538.913	538.726	538.531	538.330	538.106	537.876	537.631	537.379
7.5	541.714	541.570	541.404	541.231	541.044	540.871	540.688	540.490	540.151	539.957
10.0	543.902	543.434	543.470	543.528	543.557	543.600	543.614	543.600	543.557	543.485
12.5	546.401	546.667	546.905	547.092	547.121	547.106	547.056	546.962	546.833	546.674
15.0	548.741	549.130	549.446	549.691	549.893	549.900	549.763	549.619	549.353	548.935
17.5	550.562	551.138	551.606	551.470	551.498	551.491	551.426	551.261	551.059	550.822
20.0	551.275	551.628	551.959	552.254	552.521	552.780	552.722	552.679	552.290	551.851
22.5	551.405	551.822	552.197	552.535	552.838	552.852	552.845	552.816	552.708	552.312
25.0	550.670	551.354	552.010	552.348	552.506	552.550	552.542	552.506	552.427	552.182
27.5	549.648	550.296	551.016	551.131	551.527	551.887	552.110	551.801	551.362	550.778
30.0	547.466	548.287	549.151	549.864	550.231	550.217	550.238	549.958	549.720	549.389
32.5	545.285	545.940	546.998	547.308	547.718	548.021	547.906	547.618	547.121	546.602
35.0	541.850	543.046	544.032	544.414	544.738	544.896	544.824	544.687	544.435	543.485
37.5	538.027	539.093	540.086	541.015	541.318	541.426	541.361	541.166	540.713	540.007
40.0	533.513	535.075	536.062	536.566	537.055	537.523	537.466	537.019	536.393	535.997
42.5	528.127	529.848	530.784	531.749	532.692	532.656	532.591	532.296	532.094	530.806
45.0	522.281	523.764	525.024	525.974	526.702	527.155	527.364	526.896	525.974	524.909
47.5	516.103	517.630	518.760	519.833	520.790	520.747	520.668	520.402	520.070	518.782
50.0	509.198	510.876	512.352	513.137	513.497	513.785	513.850	513.389	512.849	512.172
52.5	501.790	503.597	504.979	505.678	506.275	506.455	506.390	506.095	505.757	504.626
55.0	493.841	495.331	496.642	497.585	498.290	498.643	498.794	498.434	497.534	496.562
57.5	484.560	486.317	487.649	488.851	489.830	490.075	490.162	489.859	489.175	488.110
60.0	474.782	476.510	478.030	479.239	480.118	480.686	480.924	480.470	479.923	478.562

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CANDELA TABULATION - (Cont.)

62.5	464.616	466.207	467.618	468.965	469.980	470.765	470.772	470.419	469.634	468.209
65.0	454.104	455.522	457.092	458.366	459.562	460.145	460.066	459.799	459.086	457.603
67.5	443.016	444.550	446.220	447.451	448.639	449.086	448.776	448.704	447.919	446.508
70.0	432.720	433.865	434.938	436.255	437.429	437.731	437.371	437.573	436.565	435.240
72.5	422.352	422.683	423.403	424.426	425.261	425.405	425.390	425.254	424.570	423.583
75.0	410.508	411.271	411.329	412.200	412.812	412.985	412.985	412.790	412.315	411.473
77.5	398.081	398.722	398.866	399.816	400.363	400.579	400.680	400.385	399.982	399.254
80.0	384.646	385.438	385.877	386.460	387.022	387.540	387.922	387.374	386.719	385.978
82.5	371.405	372.103	372.650	373.046	373.392	373.946	374.566	373.774	373.118	372.665
85.0	358.078	358.726	359.424	359.964	360.540	361.483	362.592	361.354	360.346	359.719
87.5	346.018	346.608	347.414	347.983	348.624	349.812	350.935	349.733	348.523	347.868
90.0	358.733	359.424	360.338	361.361	362.153	362.297	361.987	361.426	359.978	358.445
92.5	346.018	346.608	347.414	347.983	348.624	349.812	350.935	349.733	348.523	347.868
95.0	358.078	358.726	359.424	359.964	360.540	361.483	362.592	361.354	360.346	359.719
97.5	371.405	372.103	372.650	373.046	373.392	373.946	374.566	373.774	373.118	372.665
100.0	384.646	385.438	385.877	386.460	387.022	387.540	387.922	387.374	386.719	385.978
102.5	398.081	398.722	398.866	399.816	400.363	400.579	400.680	400.385	399.982	399.254
105.0	410.508	411.271	411.329	412.200	412.812	412.985	412.985	412.790	412.315	411.473
107.5	422.352	422.683	423.403	424.426	425.261	425.405	425.390	425.254	424.570	423.583
110.0	432.720	433.865	434.938	436.255	437.429	437.731	437.371	437.573	436.565	435.240
112.5	443.016	444.550	446.220	447.451	448.639	449.086	448.776	448.704	447.919	446.508
115.0	454.104	455.522	457.092	458.366	459.562	460.145	460.066	459.799	459.086	457.603
117.5	464.616	466.207	467.618	468.965	469.980	470.765	470.772	470.419	469.634	468.209
120.0	474.782	476.510	478.030	479.239	480.118	480.686	480.924	480.470	479.923	478.562
122.5	484.560	486.317	487.649	488.851	489.830	490.075	490.162	489.859	489.175	488.110
125.0	493.841	495.331	496.642	497.585	498.290	498.643	498.794	498.434	497.534	496.562
127.5	501.790	503.597	504.979	505.685	506.275	506.455	506.390	506.095	505.757	504.626
130.0	509.198	510.876	512.352	513.137	513.497	513.785	513.850	513.389	512.849	512.172
132.5	516.103	517.630	518.760	519.833	520.790	520.747	520.668	520.402	520.070	518.782
135.0	522.281	523.764	525.024	525.974	526.702	527.155	527.364	526.896	525.974	524.909
137.5	528.127	529.848	530.784	531.749	532.692	532.656	532.591	532.296	532.094	530.806
140.0	533.513	535.075	536.062	536.566	537.055	537.523	537.466	537.019	536.393	535.997
142.5	538.027	539.093	540.086	541.015	541.318	541.426	541.361	541.166	540.713	540.007
145.0	541.850	543.046	544.032	544.414	544.738	544.896	544.824	544.687	544.435	543.485
147.5	545.285	545.940	546.998	547.308	547.718	548.021	547.906	547.618	547.121	546.602
150.0	547.466	548.287	549.151	549.864	550.231	550.217	550.238	549.958	549.720	549.389
152.5	549.648	550.296	551.016	551.131	551.527	551.887	552.110	551.801	551.362	550.778
155.0	550.670	551.354	552.010	552.348	552.506	552.550	552.542	552.506	552.427	552.182
157.5	551.405	551.822	552.197	552.535	552.838	552.852	552.845	552.816	552.708	552.312
160.0	551.275	551.628	551.959	552.254	552.521	552.780	552.722	552.679	552.290	551.851
162.5	550.562	551.138	551.606	551.470	551.498	551.491	551.426	551.261	551.059	550.822
165.0	548.741	549.130	549.446	549.691	549.893	549.900	549.763	549.619	549.353	548.935
167.5	546.401	546.667	546.905	547.092	547.121	547.106	547.056	546.962	546.833	546.674
170.0	543.902	543.434	543.470	543.528	543.557	543.600	543.614	543.600	543.557	543.485
172.5	541.714	541.570	541.404	541.231	541.044	540.871	540.468	540.490	540.144	539.957
175.0	539.237	539.078	538.913	538.726	538.531	538.330	538.106	537.876	537.631	537.379
177.5	536.760	536.782	536.810	536.839	536.868	536.897	536.926	536.954	536.983	537.012
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

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	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422
2.5	537.041	537.070	537.106	537.134	537.163	537.192	537.228	537.257	537.286	537.314
5.0	537.113	536.911	536.897	536.882	536.933	537.120	537.055	537.113	537.170	537.228
7.5	539.741	539.503	539.237	538.949	538.632	538.294	538.171	538.438	538.438	538.596

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CANDELA TABULATION - (Cont.)

10.0	543.384	543.247	543.110	542.714	542.297	541.843	541.361	540.842	540.490	540.799
12.5	546.322	545.976	545.630	545.256	544.853	544.349	543.643	542.909	542.153	541.390
15.0	548.482	547.985	547.495	547.042	546.559	546.048	545.515	544.752	543.845	542.909
17.5	550.555	550.087	549.410	548.532	547.740	547.013	546.257	545.479	544.522	543.348
20.0	551.347	550.807	550.238	549.432	548.453	547.445	546.566	545.659	544.723	543.550
22.5	551.887	551.290	550.634	549.871	548.935	547.567	546.156	544.939	543.715	542.484
25.0	551.750	550.915	549.922	548.827	547.711	546.588	545.069	543.535	542.160	540.785
27.5	550.174	549.533	548.726	547.603	546.286	544.903	543.881	541.620	539.813	538.142
30.0	548.424	547.517	546.595	545.551	543.974	542.318	540.648	538.920	536.868	534.938
32.5	546.149	544.910	543.737	542.556	541.469	539.438	537.466	535.486	533.290	530.971
35.0	542.686	541.670	540.432	538.956	537.530	535.810	533.491	531.187	528.898	526.313
37.5	538.848	537.682	536.414	534.967	533.167	531.252	529.128	526.514	523.922	521.251
40.0	534.845	533.390	531.590	529.920	528.199	526.111	523.930	521.280	518.350	515.462
42.5	529.438	527.882	526.234	524.354	522.590	520.531	518.033	515.383	512.309	509.177
45.0	523.757	522.180	520.337	518.393	516.269	514.202	511.754	508.939	505.922	502.538
47.5	517.579	515.938	514.015	512.006	509.976	507.578	504.986	501.919	498.758	495.252
50.0	510.905	509.206	507.298	505.102	502.589	500.148	497.419	494.618	491.306	487.670
52.5	503.381	501.984	499.831	497.534	495.029	492.437	489.737	486.626	483.221	479.527
55.0	495.475	493.776	491.933	489.672	487.238	484.222	481.471	478.346	475.006	471.384
57.5	486.583	484.891	483.019	480.845	478.073	475.409	472.658	469.649	465.998	462.247
60.0	477.043	475.214	473.306	470.916	468.166	465.307	462.542	459.482	456.430	452.894
62.5	466.625	464.976	463.241	461.081	458.734	454.925	451.742	448.826	445.579	442.022
65.0	456.113	454.277	452.635	451.318	447.847	444.298	441.050	437.746	434.095	430.560
67.5	445.097	443.210	441.526	439.704	437.083	433.836	430.294	426.996	423.461	419.702
70.0	433.858	432.619	431.316	429.516	427.169	423.770	420.178	416.945	413.071	408.773
72.5	422.474	421.654	420.646	419.674	417.161	413.345	409.759	406.512	402.480	398.599
75.0	410.594	410.177	409.306	407.995	404.978	401.717	398.196	394.855	391.306	387.612
77.5	398.333	397.930	397.109	394.898	392.443	389.455	385.862	382.997	379.274	375.494
80.0	385.344	384.746	384.257	381.895	379.685	376.978	373.680	370.966	367.171	363.636
82.5	372.406	371.549	370.800	369.583	368.201	365.227	361.750	358.776	355.370	351.857
85.0	359.266	358.358	357.660	356.954	356.306	352.894	349.265	346.205	343.130	339.358
87.5	347.213	346.428	345.679	345.370	345.096	341.338	337.723	334.642	331.618	327.643
90.0	356.926	355.421	354.406	353.362	349.178	344.844	340.445	336.161	331.992	327.211
92.5	347.213	346.428	345.679	345.370	345.096	341.338	337.723	334.642	331.618	327.643
95.0	359.266	358.358	357.660	356.954	356.306	352.894	349.265	346.205	343.130	339.358
97.5	372.406	371.549	370.800	369.583	368.201	365.227	361.750	358.776	355.370	351.857
100.0	385.344	384.746	384.257	381.895	379.685	376.978	373.680	370.966	367.171	363.636
102.5	398.333	397.930	397.109	394.898	392.443	389.455	385.862	382.997	379.274	375.494
105.0	410.594	410.177	409.306	407.995	404.978	401.717	398.196	394.855	391.306	387.612
107.5	422.474	421.654	420.646	419.674	417.161	413.345	409.759	406.512	402.480	398.599
110.0	433.858	432.619	431.316	429.516	427.169	423.770	420.178	416.945	413.071	408.773
112.5	445.097	443.210	441.526	439.704	437.083	433.836	430.294	426.996	423.461	419.702
115.0	456.113	454.277	452.635	451.318	447.847	444.298	441.050	437.746	434.095	430.560
117.5	466.625	464.976	463.241	461.081	458.734	454.925	451.742	448.826	445.579	442.022
120.0	477.043	475.214	473.306	470.916	468.166	465.307	462.542	459.482	456.430	452.894
122.5	486.583	484.891	483.019	480.845	478.073	475.409	472.658	469.649	465.998	462.247
125.0	495.475	493.776	491.933	489.672	487.238	484.222	481.471	478.346	475.006	471.384
127.5	503.381	501.984	499.831	497.534	495.029	492.437	489.737	486.626	483.221	479.527
130.0	510.905	509.206	507.298	505.102	502.589	500.148	497.419	494.618	491.306	487.670
132.5	517.579	515.938	514.015	512.006	509.976	507.578	504.986	501.919	498.758	495.252
135.0	523.757	522.180	520.337	518.393	516.269	514.202	511.754	508.939	505.922	502.538
137.5	529.438	527.882	526.234	524.354	522.590	520.531	518.033	515.383	512.309	509.177
140.0	534.845	533.390	531.590	529.920	528.199	526.111	523.930	521.280	518.350	515.462
142.5	538.848	537.682	536.414	534.967	533.167	531.252	529.128	526.514	523.922	521.251
145.0	542.686	541.670	540.432	538.956	537.530	535.810	533.491	531.187	528.898	526.313
147.5	546.149	544.910	543.737	542.556	541.469	539.438	537.466	535.486	533.290	530.971

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

150.0	548.424	547.517	546.595	545.551	543.974	542.318	540.648	538.920	536.868	534.938
152.5	550.174	549.533	548.726	547.603	546.286	544.903	543.881	541.620	539.813	538.142
155.0	551.750	550.915	549.922	548.827	547.711	546.588	545.069	543.535	542.160	540.785
157.5	551.887	551.290	550.634	549.871	548.935	547.567	546.156	544.939	543.715	542.484
160.0	551.347	550.807	550.238	549.432	548.453	547.445	546.566	545.659	544.723	543.550
162.5	550.555	550.087	549.410	548.532	547.740	547.013	546.257	545.479	544.522	543.348
165.0	548.482	547.985	547.495	547.042	546.559	546.048	545.515	544.752	543.845	542.909
167.5	546.322	545.976	545.630	545.256	544.853	544.349	543.643	542.909	542.153	541.390
170.0	543.384	543.247	543.110	542.714	542.297	541.843	541.361	540.842	540.490	540.799
172.5	539.741	539.503	539.237	538.949	538.632	538.294	538.171	538.438	538.438	538.596
175.0	537.113	536.911	536.897	536.882	536.933	537.120	537.055	537.113	537.170	537.228
177.5	537.041	537.070	537.106	537.134	537.163	537.192	537.228	537.257	537.286	537.314
180.0	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422	537.422

Vert. Angles **Horizontal Angles**

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	537.422	537.422	537.422	537.422	537.422
2.5	537.350	537.379	537.408	537.451	537.466
5.0	537.293	537.350	537.408	537.466	537.516
7.5	538.747	538.877	538.999	539.100	539.186
10.0	540.799	540.950	541.094	541.224	541.346
12.5	541.426	541.606	541.764	541.915	542.052
15.0	542.059	542.196	542.390	542.794	542.923
17.5	542.160	541.562	541.757	541.944	542.131
20.0	542.182	540.828	541.008	541.253	541.505
22.5	540.871	539.208	538.740	538.942	539.158
25.0	539.251	537.379	536.278	536.501	536.760
27.5	536.486	534.391	532.584	532.786	533.016
30.0	533.124	531.058	528.804	528.826	529.092
32.5	528.840	526.673	524.138	523.649	523.879
35.0	524.023	521.777	519.034	518.184	518.458
37.5	518.609	516.053	513.173	511.834	512.086
40.0	512.554	509.782	506.830	505.051	505.354
42.5	506.124	503.107	500.026	497.736	498.017
45.0	499.370	496.087	492.912	490.162	490.486
47.5	491.782	488.369	484.978	481.860	482.184
50.0	483.818	480.276	476.647	473.378	473.429
52.5	475.531	471.888	468.158	464.659	464.364
55.0	467.086	463.162	459.115	455.580	455.011
57.5	458.050	454.003	449.748	446.076	445.234
60.0	448.654	444.420	440.050	436.198	435.053
62.5	438.178	434.182	429.754	425.822	424.310
65.0	427.046	423.785	419.263	415.210	413.316
67.5	415.519	412.214	408.449	404.568	402.394
70.0	404.366	400.644	397.188	393.746	391.277
72.5	393.790	388.930	384.818	382.075	379.591
75.0	382.594	377.640	372.787	369.950	367.733
77.5	371.153	366.473	360.785	356.846	354.989
80.0	359.035	354.413	349.200	344.102	342.158
82.5	347.256	343.123	337.579	332.489	329.342
85.0	335.081	330.646	325.274	320.904	316.584
87.5	323.402	319.118	314.294	309.766	304.963
90.0	322.445	316.714	311.479	305.539	306.425
92.5	323.402	319.118	314.294	309.766	304.963
95.0	335.081	330.646	325.274	320.904	316.584

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

97.5	347.256	343.123	337.579	332.489	329.342
100.0	359.035	354.413	349.200	344.102	342.158
102.5	371.153	366.473	360.785	356.846	354.989
105.0	382.586	377.640	372.787	369.950	367.733
107.5	393.790	388.930	384.818	382.075	379.591
110.0	404.366	400.644	397.188	393.746	391.277
112.5	415.519	412.214	408.449	404.568	402.394
115.0	427.046	423.785	419.263	415.210	413.316
117.5	438.178	434.182	429.754	425.822	424.310
120.0	448.654	444.420	440.050	436.198	435.053
122.5	458.050	454.003	449.748	446.076	445.234
125.0	467.086	463.162	459.115	455.580	455.011
127.5	475.531	471.888	468.158	464.659	464.364
130.0	483.818	480.276	476.647	473.378	473.429
132.5	491.782	488.369	484.978	481.860	482.184
135.0	499.370	496.087	492.912	490.162	490.486
137.5	506.124	503.107	500.026	497.736	498.017
140.0	512.554	509.782	506.830	505.051	505.354
142.5	518.609	516.053	513.173	511.834	512.086
145.0	524.023	521.777	519.034	518.184	518.458
147.5	528.840	526.673	524.138	523.649	523.879
150.0	533.124	531.058	528.804	528.826	529.092
152.5	536.486	534.391	532.584	532.786	533.016
155.0	539.251	537.379	536.278	536.501	536.760
157.5	540.871	539.208	538.740	538.942	539.158
160.0	542.182	540.828	541.008	541.253	541.505
162.5	542.160	541.562	541.757	541.944	542.131
165.0	542.059	542.196	542.390	542.794	542.923
167.5	541.426	541.606	541.764	541.915	542.052
170.0	540.799	540.950	541.094	541.224	541.346
172.5	538.747	538.877	538.999	539.100	539.186
175.0	537.293	537.350	537.408	537.466	537.516
177.5	537.350	537.379	537.408	537.451	537.466
180.0	537.422	537.422	537.422	537.422	537.422

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-24-LED4-LO-SAL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	206.53	N.A.	3.60
0-30	459.15	N.A.	8.00
0-40	794.59	N.A.	13.90
0-60	1623.26	N.A.	28.30
0-80	2482.31	N.A.	43.30
0-90	2864.62	N.A.	50.00
10-90	2813.07	N.A.	49.10
20-40	588.06	N.A.	10.30
20-50	984.67	N.A.	17.20
40-70	1267.52	N.A.	22.10
60-80	859.05	N.A.	15.00
70-80	420.20	N.A.	7.30
80-90	382.31	N.A.	6.70
90-110	802.52	N.A.	14.00
90-120	1241.36	N.A.	21.70
90-130	1673.42	N.A.	29.20
90-150	2405.47	N.A.	42.00
90-180	2864.62	N.A.	50.00
110-180	2062.1	N.A.	36.00
0-180	5729.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.55
10-20	154.98
20-30	252.62
30-40	335.44
40-50	396.61
50-60	432.06
60-70	438.84
70-80	420.20
80-90	382.31
90-100	382.31
100-110	420.20
110-120	438.84
120-130	432.06
130-140	396.61
140-150	335.44
150-160	252.62
160-170	154.98
170-180	51.55

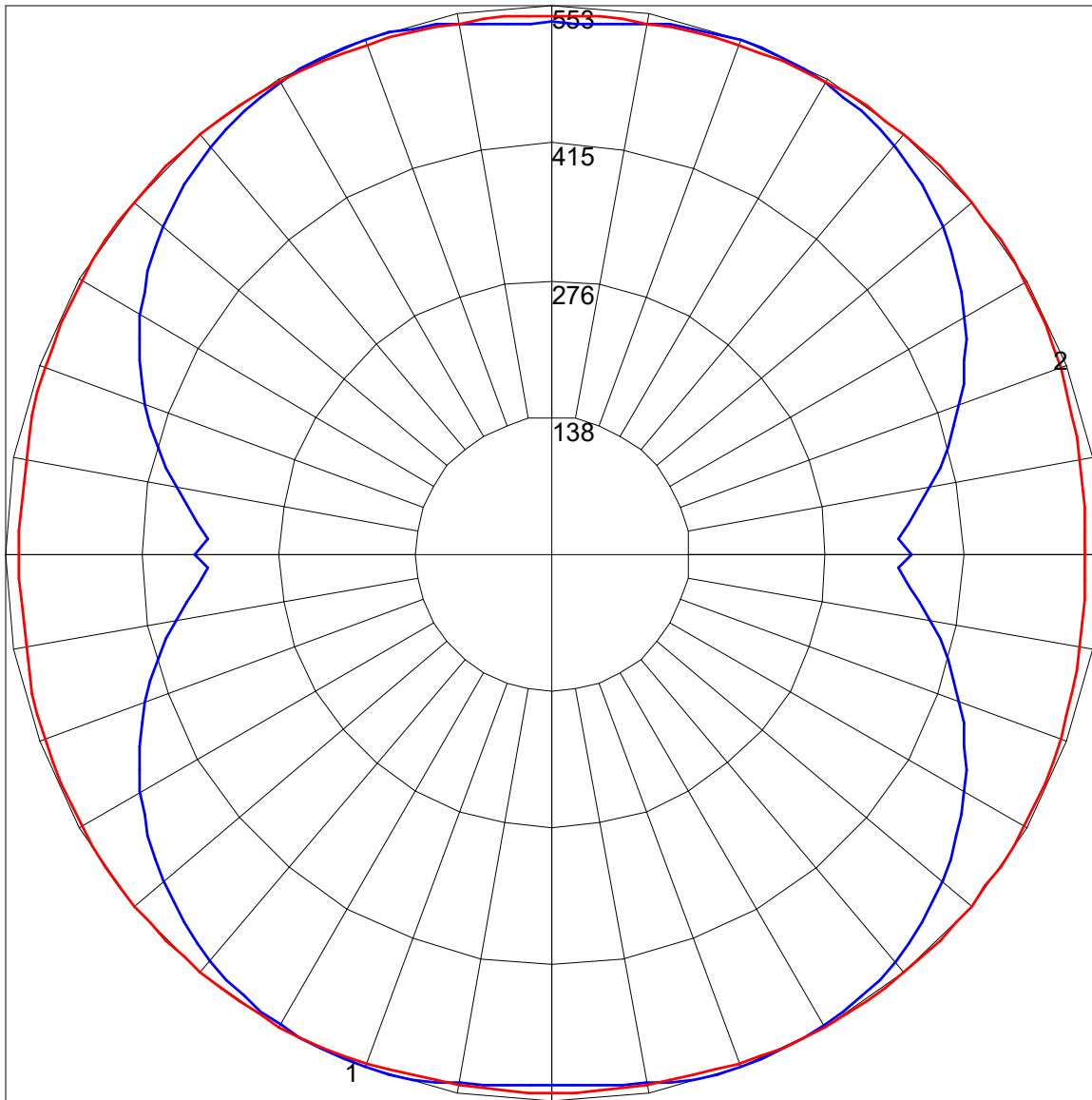
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	95	89	84	79	87	82	77	73	68	65	62	56	53	51	45	43	41	35
2	85	76	68	62	77	70	63	57	58	53	49	47	43	40	37	35	32	27
3	77	66	57	50	70	60	53	47	50	44	39	41	36	33	32	29	26	22
4	70	57	48	42	63	53	45	39	44	38	33	36	31	27	28	25	22	18
5	64	51	42	35	58	47	39	33	39	33	28	32	27	23	25	21	18	15
6	58	45	36	30	53	42	34	28	35	28	24	28	23	20	22	19	16	13
7	54	41	32	26	49	37	30	24	31	25	21	26	21	17	20	17	14	11
8	50	37	28	23	45	34	26	21	28	22	18	23	19	15	19	15	12	10
9	46	33	25	20	42	31	24	19	26	20	16	21	17	13	17	13	11	8
10	43	30	23	18	40	28	21	17	24	18	14	20	15	12	16	12	10	8

POLAR GRAPH



Maximum Candela = 552.953 Located At Horizontal Angle = 132.5, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (132.5 - 312.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)