H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WU-4-00-P7-835-FASY-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ul #13323616.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 8 OCT 2020
[MANUFAC] H E Williams Inc
[LUMCAT] MX4WU-4'00-P7/835-FASY-PoE
[LUMINAIRE] White aluminum housing, frosted lens enclosure
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[_CONVERT] Luminaire test position and photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2865
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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CANDELA TABULATION

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	2.076	2.502	2.929	3.354	3.781	4.207	4.633	5.059	5.485	5.912
92.5	20.352	21.671	22.990	24.309	25.627	26.946	28.265	29.583	30.902	32.221
95.0	44.675	46.686	48.697	50.707	52.719	54.729	56.740	58.750	60.762	62.772
97.5	73.512	76.215	78.917	81.619	84.322	87.025	89.728	92.430	95.133	97.836
100.0	106.635	109.934	113.234	116.532	119.832	123.131	126.431	129.729	133.029	136.328
102.5	143.459	147.204	150.950	154.696	158.441	162.186	165.932	169.677	173.423	177.169
105.0	182.177	186.394	190.611	194.828	199.045	203.262	207.479	211.696	215.912	220.129
107.5	222.025	226.718	231.411	236.104	240.798	245.491	250.184	254.877	259.570	264.264
110.0	262.594	267.713	272.833	277.952	283.071	288.191	293.310	298.429	303.549	308.668
112.5	303.885	309.160	314.435	319.710	324.985	330.259	335.534	340.809	346.084	351.358
115.0	344.094	349.810	355.526	361.242	366.958	372.674	378.391	384.106	389.823	395.538
117.5	383.579	389.807	396.035	402.262	408.489	414.717	420.944	427.172	433.400	439.627
120.0	423.292	429.961	436.629	443.298	449.967	456.636	463.304	469.973	476.642	483.311
122.5	462.551	469.622	476.691	483.761	490.831	497.901	504.971	512.041	519.111	526.181
125.0	501.812	509.183	516.554	523.924	531.295	538.666	546.037	553.407	560.779	568.149
127.5	541.073	548.594	556.115	563.636	571.157	578.679	586.200	593.721	601.242	608.763
130.0	578.528	586.350	594.172	601.994	609.816	617.639	625.460	633.282	641.104	648.926
132.5	614.630	622.854	631.077	639.300	647.523	655.745	663.969	672.192	680.415	688.638

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CANDELA TABULATION - (Cont.)

135.0	650.731	659.205	667.679	676.153	684.627	693.101	701.575	710.048	718.522	726.996
137.5	686.833	695.307	703.781	712.254	720.728	729.203	737.677	746.150	754.624	763.098
140.0	722.483	730.857	739.231	747.604	755.977	764.351	772.725	781.098	789.471	797.845
142.5	756.780	765.054	773.327	781.600	789.874	798.146	806.420	814.693	822.966	831.240
145.0	789.272	797.645	806.019	814.392	822.766	831.139	839.513	847.886	856.260	864.633
147.5	820.409	828.783	837.157	845.530	853.903	862.277	870.651	879.024	887.397	895.771
150.0	850.644	858.817	866.990	875.163	883.336	891.509	899.682	907.855	916.028	924.201
152.5	879.525	887.397	895.269	903.142	911.014	918.886	926.759	934.631	942.503	950.375
155.0	905.699	913.220	920.742	928.263	935.784	943.305	950.826	958.347	965.869	973.390
157.5	929.616	936.687	943.756	950.826	957.896	964.966	972.036	979.106	986.175	993.246
160.0	950.826	957.395	963.963	970.532	977.100	983.669	990.237	996.806	1003.374	1009.943
162.5	969.779	975.796	981.813	987.830	993.847	999.864	1005.881	1011.898	1017.915	1023.932
165.0	986.476	991.792	997.106	1002.421	1007.736	1013.051	1018.366	1023.681	1028.995	1034.311
167.5	1000.917	1005.480	1010.042	1014.606	1019.169	1023.731	1028.294	1032.858	1037.420	1041.983
170.0	1013.102	1016.813	1020.522	1024.233	1027.944	1031.654	1035.364	1039.075	1042.785	1046.495
172.5	1022.578	1025.486	1028.394	1031.303	1034.211	1037.119	1040.027	1042.936	1045.844	1048.752
175.0	1029.348	1031.404	1033.459	1035.515	1037.571	1039.626	1041.682	1043.738	1045.793	1047.849
177.5	1033.409	1034.562	1035.715	1036.868	1038.021	1039.175	1040.328	1041.481	1042.635	1043.788
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**									
	25.0	**27.5**	**30.0**	**32.5**	**35.0**	**37.5**	**40.0**	**42.5**	**45.0**	**47.5**
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	6.514	7.115	7.717	8.318	8.920	9.521	10.123	10.724	11.327	11.757
92.5	33.294	34.367	35.440	36.513	37.585	38.659	39.732	40.804	41.878	42.625
95.0	64.332	65.891	67.450	69.009	70.569	72.128	73.687	75.246	76.806	77.854
97.5	99.801	101.767	103.732	105.698	107.663	109.629	111.594	113.560	115.525	116.864
100.0	138.665	141.001	143.339	145.675	148.012	150.348	152.685	155.022	157.358	158.932
102.5	179.846	182.524	185.201	187.879	190.557	193.234	195.911	198.589	201.267	203.037
105.0	223.062	225.995	228.929	231.863	234.796	237.729	240.663	243.596	246.529	248.489
107.5	267.447	270.631	273.815	276.999	280.184	283.368	286.552	289.736	292.920	295.051
110.0	312.008	315.347	318.687	322.026	325.366	328.705	332.044	335.383	338.723	340.984
112.5	355.034	358.709	362.385	366.060	369.736	373.410	377.086	380.761	384.437	387.074
115.0	399.510	403.481	407.452	411.423	415.395	419.366	423.337	427.308	431.279	434.052
117.5	443.829	448.031	452.233	456.434	460.636	464.838	469.040	473.242	477.444	480.452
120.0	487.723	492.136	496.548	500.960	505.372	509.785	514.198	518.610	523.022	526.331
122.5	530.894	535.607	540.320	545.034	549.748	554.461	559.174	563.887	568.600	572.110
125.0	573.113	578.077	583.041	588.005	592.969	597.933	602.897	607.861	612.825	616.586
127.5	614.078	619.394	624.708	630.023	635.338	640.654	645.969	651.283	656.598	660.409
130.0	654.442	659.957	665.473	670.989	676.504	682.020	687.535	693.050	698.566	702.478
132.5	694.255	699.870	705.486	711.101	716.718	722.333	727.949	733.565	739.181	743.142
135.0	732.662	738.328	743.994	749.660	755.326	760.992	766.658	772.324	777.990	782.101
137.5	768.914	774.731	780.547	786.364	792.180	797.997	803.813	809.629	815.445	819.757
140.0	803.862	809.879	815.896	821.913	827.930	833.947	839.964	845.981	851.998	856.410
142.5	837.256	843.273	849.291	855.307	861.324	867.341	873.358	879.375	885.392	889.904
145.0	870.449	876.266	882.082	887.899	893.715	899.532	905.348	911.165	916.981	921.544
147.5	901.537	907.304	913.070	918.836	924.602	930.369	936.135	941.901	947.667	952.079
150.0	929.867	935.533	941.199	946.865	952.531	958.196	963.863	969.528	975.195	979.456
152.5	955.640	960.905	966.169	971.434	976.699	981.964	987.228	992.493	997.758	1001.920
155.0	978.253	983.117	987.981	992.844	997.708	1002.572	1007.435	1012.299	1017.163	1021.124
157.5	997.658	1002.070	1006.483	1010.895	1015.307	1019.720	1024.133	1028.545	1032.957	1036.668
160.0	1013.905	1017.865	1021.827	1025.787	1029.749	1033.710	1037.671	1041.632	1045.593	1048.953
162.5	1027.392	1030.852	1034.312	1037.771	1041.230	1044.690	1048.150	1051.610	1055.070	1058.078
165.0	1037.319	1040.327	1043.337	1046.345	1049.353	1052.362	1055.371	1058.379	1061.388	1064.145
167.5	1044.389	1046.796	1049.203	1051.610	1054.016	1056.424	1058.830	1061.237	1063.643	1066.051
170.0	1048.351	1050.206	1052.061	1053.917	1055.771	1057.627	1059.482	1061.337	1063.193	1065.098
172.5	1049.905	1051.058	1052.212	1053.365	1054.518	1055.671	1056.825	1057.978	1059.131	1060.635
175.0	1048.351	1048.852	1049.353	1049.855	1050.356	1050.857	1051.359	1051.860	1052.362	1053.414
177.5	1043.638	1043.487	1043.337	1043.186	1043.036	1042.885	1042.735	1042.584	1042.434	1042.985
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	12.189	12.620	13.051	13.483	13.914	14.345	14.777	15.207	15.408	15.609
92.5	43.372	44.119	44.866	45.613	46.361	47.108	47.855	48.602	48.868	49.133
95.0	78.902	79.949	80.998	82.046	83.094	84.141	85.189	86.238	86.574	86.909
97.5	118.203	119.542	120.880	122.219	123.558	124.896	126.236	127.574	127.995	128.416
100.0	160.507	162.081	163.656	165.230	166.805	168.379	169.954	171.528	171.959	172.391
102.5	204.806	206.577	208.347	210.116	211.886	213.657	215.426	217.196	217.638	218.079
105.0	250.450	252.410	254.371	256.331	258.293	260.253	262.214	264.174	264.701	265.227
107.5	297.181	299.313	301.444	303.574	305.706	307.837	309.967	312.099	312.676	313.252
110.0	343.245	345.508	347.769	350.030	352.291	354.553	356.814	359.076	359.692	360.309
112.5	389.712	392.349	394.987	397.624	400.261	402.899	405.536	408.174	408.790	409.407
115.0	436.825	439.597	442.370	445.143	447.916	450.688	453.461	456.234	456.936	457.638
117.5	483.461	486.469	489.478	492.486	495.494	498.504	501.512	504.520	505.223	505.924
120.0	529.641	532.950	536.259	539.569	542.878	546.187	549.497	552.806	553.559	554.310
122.5	575.620	579.130	582.640	586.150	589.660	593.170	596.679	600.189	600.992	601.793
125.0	620.346	624.107	627.868	631.628	635.389	639.149	642.909	646.670	647.473	648.275
127.5	664.220	668.031	671.841	675.652	679.462	683.273	687.084	690.894	691.897	692.900
130.0	706.388	710.300	714.210	718.121	722.032	725.943	729.854	733.765	734.818	735.871
132.5	747.103	751.064	755.025	758.987	762.947	766.909	770.870	774.831	775.934	777.038
135.0	786.213	790.324	794.436	798.548	802.660	806.771	810.883	814.994	816.197	817.400
137.5	824.070	828.382	832.694	837.006	841.318	845.630	849.943	854.255	855.508	856.761
140.0	860.823	865.235	869.648	874.061	878.473	882.885	887.298	891.710	892.863	894.016
142.5	894.417	898.930	903.443	907.955	912.468	916.981	921.493	926.006	927.259	928.513
145.0	926.106	930.670	935.233	939.795	944.358	948.921	953.484	958.047	959.401	960.754
147.5	956.492	960.905	965.317	969.729	974.141	978.554	982.966	987.379	988.732	990.086
150.0	983.719	987.981	992.242	996.505	1000.767	1005.028	1009.291	1013.552	1014.856	1016.159
152.5	1006.082	1010.243	1014.405	1018.567	1022.729	1026.890	1031.052	1035.214	1036.517	1037.821
155.0	1025.085	1029.047	1033.007	1036.969	1040.929	1044.891	1048.852	1052.813	1054.016	1055.219
157.5	1040.378	1044.088	1047.799	1051.510	1055.220	1058.930	1062.641	1066.352	1067.505	1068.658
160.0	1052.312	1055.672	1059.031	1062.390	1065.750	1069.109	1072.469	1075.828	1076.981	1078.134
162.5	1061.087	1064.095	1067.103	1070.112	1073.121	1076.129	1079.137	1082.146	1083.148	1084.152
165.0	1066.903	1069.661	1072.418	1075.176	1077.933	1080.692	1083.449	1086.207	1087.009	1087.811
167.5	1068.457	1070.864	1073.270	1075.678	1078.084	1080.491	1082.897	1085.305	1086.107	1086.909

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CANDELA TABULATION - (Cont.)

170.0	1067.004	1068.908	1070.814	1072.719	1074.625	1076.530	1078.435	1080.341	1081.093	1081.845
172.5	1062.139	1063.643	1065.148	1066.653	1068.157	1069.661	1071.165	1072.669	1073.171	1073.672
175.0	1054.468	1055.520	1056.573	1057.627	1058.679	1059.732	1060.786	1061.838	1062.089	1062.340
177.5	1043.536	1044.088	1044.640	1045.191	1045.743	1046.295	1046.846	1047.398	1047.598	1047.799
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	15.809	16.010	16.210	16.411	16.611	16.812	17.013	16.812	16.611	16.411
92.5	49.399	49.665	49.931	50.197	50.463	50.728	50.994	50.728	50.463	50.197
95.0	87.245	87.581	87.917	88.253	88.589	88.925	89.261	88.925	88.589	88.253
97.5	128.837	129.258	129.680	130.101	130.522	130.943	131.364	130.943	130.522	130.101
100.0	172.822	173.253	173.685	174.115	174.546	174.978	175.409	174.978	174.546	174.115
102.5	218.520	218.961	219.403	219.844	220.285	220.726	221.168	220.726	220.285	219.844
105.0	265.753	266.280	266.806	267.333	267.860	268.385	268.912	268.385	267.860	267.333
107.5	313.829	314.406	314.982	315.559	316.135	316.712	317.288	316.712	316.135	315.559
110.0	360.925	361.543	362.159	362.776	363.393	364.010	364.626	364.010	363.393	362.776
112.5	410.024	410.641	411.257	411.875	412.491	413.108	413.725	413.108	412.491	411.875
115.0	458.340	459.041	459.744	460.446	461.148	461.850	462.551	461.850	461.148	460.446

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CANDELA TABULATION - (Cont.)

117.5	506.627	507.328	508.030	508.732	509.434	510.137	510.838	510.137	509.434	508.732
120.0	555.063	555.814	556.567	557.319	558.071	558.824	559.575	558.824	558.071	557.319
122.5	602.596	603.398	604.201	605.002	605.805	606.608	607.410	606.608	605.805	605.002
125.0	649.077	649.879	650.681	651.484	652.286	653.088	653.890	653.088	652.286	651.484
127.5	693.902	694.906	695.908	696.912	697.914	698.918	699.920	698.918	697.914	696.912
130.0	736.924	737.977	739.030	740.083	741.136	742.189	743.242	742.189	741.136	740.083
132.5	778.140	779.243	780.347	781.450	782.553	783.656	784.759	783.656	782.553	781.450
135.0	818.604	819.807	821.011	822.214	823.418	824.621	825.824	824.621	823.418	822.214
137.5	858.016	859.269	860.522	861.776	863.030	864.283	865.536	864.283	863.030	861.776
140.0	895.170	896.323	897.476	898.629	899.783	900.936	902.089	900.936	899.783	898.629
142.5	929.767	931.020	932.274	933.527	934.781	936.034	937.288	936.034	934.781	933.527
145.0	962.108	963.462	964.816	966.170	967.523	968.877	970.231	968.877	967.523	966.170
147.5	991.440	992.794	994.148	995.501	996.856	998.210	999.563	998.210	996.856	995.501
150.0	1017.464	1018.767	1020.071	1021.374	1022.679	1023.982	1025.286	1023.982	1022.679	1021.374
152.5	1039.125	1040.429	1041.732	1043.036	1044.340	1045.643	1046.947	1045.643	1044.340	1043.036
155.0	1056.424	1057.627	1058.830	1060.033	1061.237	1062.440	1063.643	1062.440	1061.237	1060.033
157.5	1069.811	1070.964	1072.117	1073.270	1074.424	1075.577	1076.730	1075.577	1074.424	1073.270
160.0	1079.288	1080.441	1081.594	1082.747	1083.901	1085.054	1086.207	1085.054	1083.901	1082.747
162.5	1085.154	1086.157	1087.160	1088.162	1089.165	1090.168	1091.171	1090.168	1089.165	1088.162
165.0	1088.614	1089.416	1090.218	1091.020	1091.823	1092.625	1093.428	1092.625	1091.823	1091.020
167.5	1087.712	1088.514	1089.316	1090.118	1090.921	1091.723	1092.525	1091.723	1090.921	1090.118
170.0	1082.597	1083.349	1084.101	1084.853	1085.606	1086.357	1087.110	1086.357	1085.606	1084.853
172.5	1074.173	1074.675	1075.176	1075.678	1076.179	1076.680	1077.182	1076.680	1076.179	1075.678
175.0	1062.591	1062.842	1063.091	1063.342	1063.593	1063.844	1064.095	1063.844	1063.593	1063.342
177.5	1048.000	1048.200	1048.400	1048.601	1048.801	1049.002	1049.203	1049.002	1048.801	1048.601
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**									
	100.0	**102.5**	**105.0**	**107.5**	**110.0**	**112.5**	**115.0**	**117.5**	**120.0**	**122.5**
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	16.210	16.010	15.809	15.609	15.408	15.207	14.777	14.345	13.914	13.483
92.5	49.931	49.665	49.399	49.133	48.868	48.602	47.855	47.108	46.361	45.613
95.0	87.917	87.581	87.245	86.909	86.574	86.238	85.189	84.141	83.094	82.046
97.5	129.680	129.258	128.837	128.416	127.995	127.574	126.236	124.896	123.558	122.219
100.0	173.685	173.253	172.822	172.391	171.959	171.528	169.954	168.379	166.805	165.230
102.5	219.403	218.961	218.520	218.079	217.638	217.196	215.426	213.657	211.886	210.116
105.0	266.806	266.280	265.753	265.227	264.701	264.174	262.214	260.253	258.293	256.331
107.5	314.982	314.406	313.829	313.252	312.676	312.099	309.967	307.837	305.706	303.574
110.0	362.159	361.543	360.925	360.309	359.692	359.076	356.814	354.553	352.291	350.030
112.5	411.257	410.641	410.024	409.407	408.790	408.174	405.536	402.899	400.261	397.624
115.0	459.744	459.041	458.340	457.638	456.936	456.234	453.461	450.688	447.916	445.143
117.5	508.030	507.328	506.627	505.924	505.223	504.520	501.512	498.504	495.494	492.486
120.0	556.567	555.814	555.063	554.310	553.559	552.806	549.497	546.187	542.878	539.569
122.5	604.201	603.398	602.596	601.793	600.992	600.189	596.679	593.170	589.660	586.150
125.0	650.681	649.879	649.077	648.275	647.473	646.670	642.909	639.149	635.389	631.628
127.5	695.908	694.906	693.902	692.900	691.897	690.894	687.083	683.273	679.462	675.652
130.0	739.030	737.977	736.924	735.871	734.818	733.765	729.854	725.943	722.032	718.121
132.5	780.347	779.243	778.140	777.038	775.934	774.831	770.870	766.909	762.947	758.987
135.0	821.011	819.807	818.604	817.400	816.197	814.994	810.883	806.771	802.660	798.548
137.5	860.522	859.269	858.016	856.761	855.508	854.255	849.943	845.630	841.318	837.006
140.0	897.476	896.323	895.170	894.016	892.863	891.710	887.298	882.885	878.473	874.061
142.5	932.274	931.020	929.767	928.513	927.259	926.006	921.493	916.981	912.468	907.955
145.0	964.816	963.462	962.108	960.754	959.401	958.047	953.484	948.921	944.358	939.795
147.5	994.148	992.794	991.440	990.086	988.732	987.379	982.966	978.554	974.141	969.729
150.0	1020.071	1018.767	1017.464	1016.159	1014.856	1013.552	1009.291	1005.028	1000.767	996.505
152.5	1041.732	1040.429	1039.125	1037.821	1036.517	1035.214	1031.052	1026.890	1022.729	1018.567
155.0	1058.830	1057.627	1056.424	1055.219	1054.016	1052.813	1048.852	1044.891	1040.929	1036.969
157.5	1072.117	1070.964	1069.811	1068.658	1067.505	1066.352	1062.641	1058.930	1055.220	1051.510
160.0	1081.594	1080.441	1079.288	1078.134	1076.981	1075.828	1072.469	1069.109	1065.750	1062.390
162.5	1087.160	1086.157	1085.154	1084.152	1083.148	1082.146	1079.137	1076.129	1073.121	1070.112
165.0	1090.218	1089.416	1088.614	1087.811	1087.009	1086.207	1083.449	1080.692	1077.933	1075.176
167.5	1089.316	1088.514	1087.712	1086.909	1086.107	1085.305	1082.897	1080.491	1078.084	1075.678
170.0	1084.101	1083.349	1082.597	1081.845	1081.093	1080.341	1078.435	1076.530	1074.625	1072.719
172.5	1075.176	1074.675	1074.173	1073.672	1073.171	1072.669	1071.165	1069.661	1068.157	1066.653
175.0	1063.091	1062.842	1062.591	1062.340	1062.089	1061.838	1060.786	1059.732	1058.679	1057.627
177.5	1048.400	1048.200	1048.000	1047.799	1047.598	1047.398	1046.846	1046.295	1045.743	1045.191
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**									
	125.0	**127.5**	**130.0**	**132.5**	**135.0**	**137.5**	**140.0**	**142.5**	**145.0**	**147.5**
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	13.051	12.620	12.189	11.757	11.327	10.724	10.123	9.521	8.920	8.318
92.5	44.866	44.119	43.372	42.625	41.878	40.804	39.732	38.659	37.585	36.513
95.0	80.998	79.949	78.902	77.854	76.806	75.246	73.687	72.128	70.569	69.009
97.5	120.880	119.542	118.203	116.864	115.525	113.560	111.594	109.629	107.663	105.698
100.0	163.656	162.081	160.507	158.932	157.358	155.022	152.685	150.348	148.012	145.675
102.5	208.347	206.577	204.806	203.037	201.267	198.589	195.911	193.234	190.557	187.879
105.0	254.371	252.410	250.450	248.489	246.529	243.596	240.663	237.729	234.796	231.863
107.5	301.444	299.313	297.181	295.051	292.920	289.736	286.552	283.368	280.184	276.999
110.0	347.769	345.508	343.245	340.984	338.723	335.383	332.044	328.705	325.366	322.026
112.5	394.987	392.349	389.712	387.074	384.437	380.761	377.086	373.410	369.736	366.060
115.0	442.370	439.597	436.825	434.052	431.279	427.308	423.337	419.366	415.395	411.423
117.5	489.478	486.469	483.461	480.452	477.444	473.242	469.040	464.838	460.636	456.434
120.0	536.259	532.950	529.641	526.331	523.022	518.610	514.198	509.785	505.372	500.960
122.5	582.640	579.130	575.620	572.110	568.600	563.887	559.174	554.461	549.748	545.034
125.0	627.868	624.107	620.346	616.586	612.825	607.861	602.897	597.933	592.969	588.005
127.5	671.841	668.031	664.220	660.409	656.598	651.283	645.968	640.654	635.338	630.023
130.0	714.210	710.300	706.388	702.478	698.566	693.050	687.535	682.020	676.504	670.989
132.5	755.025	751.064	747.103	743.142	739.181	733.565	727.949	722.333	716.718	711.101
135.0	794.436	790.324	786.213	782.101	777.990	772.324	766.658	760.992	755.326	749.660
137.5	832.694	828.382	824.070	819.757	815.445	809.629	803.813	797.997	792.180	786.364
140.0	869.648	865.235	860.823	856.410	851.998	845.981	839.964	833.947	827.930	821.913
142.5	903.443	898.930	894.417	889.904	885.392	879.375	873.358	867.341	861.324	855.307
145.0	935.233	930.670	926.106	921.544	916.981	911.165	905.348	899.532	893.715	887.899
147.5	965.317	960.905	956.492	952.079	947.667	941.901	936.135	930.369	924.602	918.836
150.0	992.242	987.981	983.719	979.456	975.195	969.528	963.863	958.196	952.531	946.865

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CANDELA TABULATION - (Cont.)

152.5	1014.405	1010.243	1006.082	1001.920	997.758	992.493	987.228	981.964	976.699	971.434
155.0	1033.007	1029.047	1025.085	1021.124	1017.163	1012.299	1007.435	1002.572	997.708	992.844
157.5	1047.799	1044.088	1040.378	1036.668	1032.957	1028.545	1024.133	1019.720	1015.307	1010.895
160.0	1059.031	1055.672	1052.312	1048.953	1045.593	1041.632	1037.671	1033.710	1029.749	1025.787
162.5	1067.103	1064.095	1061.087	1058.078	1055.070	1051.610	1048.150	1044.690	1041.230	1037.771
165.0	1072.418	1069.661	1066.903	1064.145	1061.388	1058.379	1055.371	1052.362	1049.353	1046.345
167.5	1073.270	1070.864	1068.457	1066.051	1063.643	1061.237	1058.830	1056.424	1054.016	1051.610
170.0	1070.814	1068.908	1067.004	1065.098	1063.193	1061.337	1059.482	1057.627	1055.771	1053.917
172.5	1065.148	1063.643	1062.139	1060.635	1059.131	1057.978	1056.825	1055.671	1054.518	1053.365
175.0	1056.573	1055.520	1054.468	1053.414	1052.362	1051.860	1051.359	1050.857	1050.356	1049.855
177.5	1044.640	1044.088	1043.536	1042.985	1042.434	1042.584	1042.735	1042.885	1043.036	1043.186
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**									
	150.0	**152.5**	**155.0**	**157.5**	**160.0**	**162.5**	**165.0**	**167.5**	**170.0**	**172.5**
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	7.717	7.115	6.514	5.912	5.485	5.059	4.633	4.207	3.781	3.354
92.5	35.440	34.367	33.294	32.221	30.902	29.583	28.265	26.946	25.627	24.309
95.0	67.450	65.891	64.332	62.772	60.762	58.750	56.740	54.729	52.719	50.707
97.5	103.732	101.767	99.801	97.836	95.133	92.430	89.728	87.025	84.322	81.619

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CANDELA TABULATION - (Cont.)

100.0	143.339	141.001	138.665	136.328	133.029	129.729	126.431	123.131	119.832	116.532
102.5	185.201	182.524	179.846	177.169	173.423	169.677	165.932	162.186	158.441	154.696
105.0	228.929	225.995	223.062	220.129	215.912	211.696	207.479	203.262	199.045	194.828
107.5	273.815	270.631	267.447	264.264	259.570	254.877	250.184	245.491	240.798	236.104
110.0	318.687	315.347	312.008	308.668	303.549	298.429	293.310	288.191	283.071	277.952
112.5	362.385	358.709	355.034	351.358	346.084	340.809	335.534	330.259	324.985	319.710
115.0	407.453	403.481	399.510	395.538	389.823	384.106	378.391	372.674	366.958	361.242
117.5	452.233	448.031	443.829	439.627	433.400	427.172	420.944	414.717	408.489	402.262
120.0	496.548	492.136	487.723	483.311	476.642	469.973	463.304	456.636	449.967	443.298
122.5	540.320	535.607	530.894	526.181	519.111	512.041	504.971	497.901	490.831	483.761
125.0	583.041	578.077	573.113	568.149	560.779	553.407	546.037	538.666	531.295	523.924
127.5	624.708	619.394	614.078	608.763	601.242	593.721	586.200	578.679	571.157	563.636
130.0	665.473	659.957	654.442	648.926	641.104	633.282	625.460	617.639	609.816	601.994
132.5	705.486	699.870	694.255	688.638	680.415	672.192	663.969	655.745	647.523	639.300
135.0	743.994	738.328	732.662	726.996	718.522	710.048	701.575	693.101	684.627	676.153
137.5	780.547	774.731	768.914	763.098	754.624	746.150	737.677	729.203	720.728	712.254
140.0	815.896	809.879	803.862	797.845	789.471	781.098	772.725	764.351	755.977	747.604
142.5	849.291	843.273	837.256	831.240	822.966	814.693	806.420	798.146	789.874	781.600
145.0	882.082	876.266	870.449	864.633	856.260	847.886	839.513	831.139	822.766	814.392
147.5	913.070	907.304	901.537	895.771	887.397	879.024	870.651	862.277	853.903	845.530
150.0	941.199	935.533	929.867	924.201	916.028	907.855	899.682	891.509	883.336	875.163
152.5	966.169	960.905	955.640	950.375	942.503	934.631	926.759	918.886	911.014	903.142
155.0	987.981	983.117	978.253	973.390	965.869	958.347	950.826	943.305	935.784	928.263
157.5	1006.483	1002.070	997.658	993.246	986.175	979.106	972.036	964.966	957.896	950.826
160.0	1021.827	1017.865	1013.905	1009.943	1003.374	996.806	990.237	983.669	977.100	970.532
162.5	1034.312	1030.852	1027.392	1023.932	1017.915	1011.898	1005.881	999.864	993.847	987.830
165.0	1043.337	1040.327	1037.319	1034.311	1028.995	1023.681	1018.366	1013.051	1007.736	1002.421
167.5	1049.203	1046.796	1044.389	1041.983	1037.420	1032.858	1028.294	1023.731	1019.169	1014.606
170.0	1052.061	1050.206	1048.351	1046.495	1042.785	1039.075	1035.364	1031.654	1027.944	1024.233
172.5	1052.212	1051.058	1049.905	1048.752	1045.844	1042.936	1040.027	1037.119	1034.211	1031.303
175.0	1049.353	1048.852	1048.351	1047.849	1045.793	1043.738	1041.682	1039.626	1037.571	1035.515
177.5	1043.337	1043.487	1043.638	1043.788	1042.635	1041.481	1040.328	1039.175	1038.021	1036.868
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	2.929	2.502	2.076	1.880	1.685	1.489	1.294	1.098	0.903	0.707
92.5	22.990	21.671	20.352	19.364	18.377	17.389	16.402	15.413	14.426	13.438
95.0	48.697	46.686	44.675	43.397	42.119	40.840	39.562	38.282	37.004	35.726
97.5	78.917	76.215	73.512	71.872	70.233	68.593	66.954	65.314	63.674	62.035
100.0	113.234	109.934	106.635	104.534	102.433	100.332	98.232	96.130	94.029	91.928
102.5	150.950	147.204	143.459	140.786	138.114	135.442	132.769	130.096	127.424	124.751
105.0	190.611	186.394	182.177	178.938	175.699	172.460	169.221	165.982	162.743	159.504
107.5	231.411	226.718	222.025	218.320	214.614	210.909	207.204	203.497	199.792	196.087
110.0	272.833	267.713	262.594	258.477	254.361	250.244	246.128	242.011	237.894	233.778
112.5	314.435	309.160	303.885	299.313	294.739	290.167	285.594	281.021	276.448	271.876
115.0	355.526	349.810	344.094	339.150	334.206	329.262	324.318	319.374	314.431	309.486
117.5	396.035	389.807	383.579	378.305	373.030	367.755	362.481	357.206	351.931	346.656
120.0	436.629	429.961	423.292	417.626	411.960	406.293	400.628	394.961	389.296	383.630
122.5	476.691	469.622	462.551	456.600	450.648	444.697	438.745	432.793	426.841	420.890
125.0	516.554	509.183	501.812	495.479	489.146	482.813	476.481	470.148	463.816	457.483
127.5	556.115	548.594	541.073	534.354	527.635	520.916	514.197	507.479	500.760	494.040
130.0	594.172	586.350	578.528	571.559	564.590	557.620	550.650	543.681	536.711	529.741
132.5	631.077	622.854	614.630	607.460	600.290	593.119	585.949	578.779	571.609	564.438
135.0	667.679	659.205	650.731	643.461	636.190	628.920	621.649	614.379	607.109	599.839
137.5	703.781	695.307	686.833	679.513	672.192	664.872	657.551	650.230	642.909	635.589
140.0	739.231	730.857	722.483	715.113	707.742	700.372	693.000	685.630	678.259	670.888
142.5	773.327	765.054	756.780	749.459	742.139	734.818	727.498	720.177	712.856	705.535
145.0	806.019	797.645	789.272	782.151	775.032	767.911	760.791	753.671	746.551	739.431
147.5	837.157	828.783	820.409	813.490	806.570	799.651	792.732	785.812	778.892	771.973
150.0	866.990	858.817	850.644	843.875	837.106	830.337	823.567	816.799	810.030	803.261
152.5	895.269	887.397	879.525	872.857	866.188	859.519	852.850	846.182	839.513	832.844
155.0	920.742	913.220	905.699	899.231	892.763	886.295	879.826	873.358	866.890	860.422
157.5	943.756	936.687	929.616	923.499	917.382	911.264	905.147	899.030	892.913	886.795
160.0	963.963	957.395	950.826	945.161	939.494	933.829	928.162	922.497	916.830	911.165
162.5	981.813	975.796	969.779	964.665	959.550	954.436	949.322	944.207	939.093	933.979
165.0	997.106	991.792	986.476	981.964	977.451	972.938	968.426	963.913	959.401	954.887
167.5	1010.042	1005.480	1000.917	997.006	993.095	989.184	985.273	981.362	977.451	973.540
170.0	1020.522	1016.813	1013.102	1009.843	1006.583	1003.324	1000.065	996.806	993.547	990.288
172.5	1028.394	1025.486	1022.578	1020.072	1017.564	1015.057	1012.550	1010.043	1007.536	1005.029
175.0	1033.459	1031.404	1029.348	1027.693	1026.038	1024.384	1022.729	1021.074	1019.419	1017.765
177.5	1035.715	1034.562	1033.409	1032.706	1032.005	1031.302	1030.601	1029.899	1029.197	1028.495
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

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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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.512	0.316	0.311	0.306	0.301	0.296	0.291	0.286	0.280	0.276
92.5	12.451	11.463	11.132	10.801	10.470	10.139	9.808	9.477	9.146	8.814
95.0	34.447	33.169	32.802	32.437	32.070	31.704	31.339	30.972	30.606	30.240
97.5	60.395	58.756	58.250	57.743	57.236	56.730	56.223	55.717	55.211	54.704
100.0	89.827	87.727	86.935	86.143	85.350	84.558	83.766	82.974	82.181	81.389
102.5	122.079	119.406	118.258	117.109	115.962	114.813	113.665	112.516	111.369	110.220
105.0	156.265	153.026	151.471	149.917	148.363	146.808	145.254	143.700	142.145	140.591
107.5	192.381	188.676	186.680	184.685	182.689	180.694	178.698	176.703	174.707	172.712
110.0	229.661	225.545	223.053	220.561	218.069	215.576	213.085	210.593	208.100	205.609
112.5	267.302	262.730	259.776	256.823	253.870	250.916	247.963	245.009	242.056	239.103
115.0	304.543	299.599	296.189	292.779	289.369	285.961	282.551	279.141	275.732	272.322
117.5	341.381	336.106	332.381	328.655	324.929	321.204	317.478	313.753	310.027	306.302
120.0	377.964	372.298	368.297	364.295	360.294	356.293	352.291	348.290	344.289	340.287
122.5	414.939	408.986	404.453	399.921	395.388	390.855	386.323	381.789	377.256	372.724
125.0	451.150	444.817	440.034	435.250	430.467	425.683	420.900	416.116	411.333	406.550
127.5	487.321	480.602	475.543	470.484	465.425	460.366	455.307	450.248	445.188	440.129
130.0	522.772	515.802	510.487	505.172	499.857	494.542	489.227	483.912	478.597	473.282

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CANDELA TABULATION - (Cont.)

132.5	557.268	550.098	544.632	539.167	533.702	528.237	522.771	517.306	511.841	506.376
135.0	592.568	585.298	579.581	573.865	568.149	562.433	556.717	551.001	545.284	539.569
137.5	628.268	620.948	615.032	609.114	603.198	597.282	591.364	585.448	579.532	573.615
140.0	663.517	656.147	650.130	644.113	638.096	632.079	626.062	620.045	614.028	608.011
142.5	698.215	690.894	684.877	678.861	672.843	666.827	660.810	654.793	648.776	642.759
145.0	732.311	725.191	719.124	713.057	706.989	700.923	694.856	688.789	682.721	676.654
147.5	765.054	758.134	752.117	746.100	740.083	734.066	728.049	722.032	716.015	709.998
150.0	796.491	789.722	783.856	777.989	772.123	766.257	760.390	754.523	748.657	742.790
152.5	826.175	819.506	813.791	808.074	802.359	796.642	790.926	785.210	779.494	773.778
155.0	853.954	847.485	841.919	836.354	830.788	825.223	819.657	814.092	808.526	802.961
157.5	880.678	874.561	869.196	863.832	858.466	853.101	847.736	842.371	837.006	831.641
160.0	905.499	899.833	894.769	889.704	884.640	879.576	874.512	869.448	864.383	859.319
162.5	928.865	923.750	919.087	914.424	909.761	905.098	900.434	895.771	891.108	886.445
165.0	950.375	945.862	941.651	937.438	933.227	929.014	924.803	920.590	916.379	912.167
167.5	969.630	965.718	962.008	958.297	954.587	950.876	947.166	943.455	939.745	936.034
170.0	987.028	983.769	980.510	977.251	973.992	970.732	967.473	964.214	960.955	957.696
172.5	1002.522	1000.015	997.257	994.499	991.742	988.984	986.226	983.468	980.711	977.952
175.0	1016.110	1014.455	1012.249	1010.043	1007.837	1005.630	1003.425	1001.218	999.012	996.806
177.5	1027.793	1027.091	1025.537	1023.982	1022.428	1020.873	1019.319	1017.765	1016.210	1014.656
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**									
	225.0	**227.5**	**230.0**	**232.5**	**235.0**	**237.5**	**240.0**	**242.5**	**245.0**	**247.5**
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271
92.5	8.484	8.273	8.063	7.852	7.642	7.430	7.220	7.009	6.799	6.588
95.0	29.874	29.578	29.282	28.986	28.690	28.395	28.099	27.803	27.507	27.211
97.5	54.198	53.802	53.406	53.010	52.614	52.217	51.821	51.425	51.029	50.633
100.0	80.597	80.091	79.584	79.078	78.572	78.065	77.558	77.052	76.545	76.039
102.5	109.072	108.410	107.747	107.086	106.424	105.762	105.100	104.439	103.777	103.115
105.0	139.037	138.184	137.332	136.479	135.627	134.774	133.922	133.069	132.217	131.364
107.5	170.716	169.617	168.519	167.422	166.323	165.225	164.127	163.029	161.931	160.832
110.0	203.117	201.758	200.399	199.040	197.681	196.322	194.963	193.605	192.246	190.887
112.5	236.149	234.520	232.890	231.261	229.631	228.001	226.372	224.742	223.113	221.483
115.0	268.912	267.097	265.282	263.467	261.652	259.837	258.021	256.206	254.391	252.576
117.5	302.576	300.511	298.445	296.379	294.314	292.248	290.182	288.116	286.050	283.984
120.0	336.286	333.935	331.583	329.231	326.881	324.529	322.177	319.826	317.474	315.122
122.5	368.191	365.679	363.167	360.655	358.143	355.631	353.119	350.607	348.095	345.583
125.0	401.766	399.118	396.471	393.824	391.176	388.529	385.881	383.234	380.586	377.939
127.5	435.070	432.312	429.554	426.796	424.039	421.280	418.523	415.765	413.007	410.250
130.0	467.967	465.114	462.261	459.408	456.554	453.702	450.849	447.995	445.143	442.290
132.5	500.910	497.952	494.994	492.035	489.076	486.118	483.160	480.201	477.243	474.285
135.0	533.852	530.693	527.534	524.376	521.217	518.058	514.899	511.740	508.581	505.423
137.5	567.698	564.339	560.979	557.620	554.260	550.901	547.541	544.182	540.822	537.463
140.0	601.994	598.634	595.275	591.915	588.556	585.197	581.838	578.478	575.119	571.759
142.5	636.742	633.433	630.124	626.814	623.505	620.195	616.886	613.577	610.267	606.958
145.0	670.587	667.378	664.169	660.960	657.751	654.542	651.333	648.124	644.915	641.706
147.5	703.981	700.872	697.764	694.655	691.546	688.438	685.329	682.220	679.112	676.003
150.0	736.924	733.765	730.606	727.448	724.289	721.130	717.971	714.812	711.653	708.494
152.5	768.062	764.853	761.644	758.435	755.226	752.017	748.808	745.599	742.390	739.181
155.0	797.395	794.336	791.278	788.219	785.161	782.101	779.043	775.984	772.926	769.867
157.5	826.276	823.368	820.460	817.551	814.643	811.735	808.827	805.918	803.010	800.102
160.0	854.255	851.698	849.140	846.583	844.026	841.469	838.911	836.354	833.797	831.240
162.5	881.782	879.475	877.169	874.862	872.556	870.250	867.943	865.636	863.330	861.023
165.0	907.955	905.799	903.643	901.487	899.330	897.175	895.019	892.862	890.707	888.550
167.5	932.324	930.518	928.713	926.908	925.103	923.299	921.493	919.688	917.883	916.078
170.0	954.436	953.033	951.629	950.225	948.821	947.416	946.013	944.609	943.205	941.801
172.5	975.195	974.192	973.189	972.186	971.184	970.181	969.178	968.176	967.172	966.170
175.0	994.599	994.047	993.497	992.945	992.393	991.842	991.290	990.738	990.187	989.635
177.5	1013.102	1012.851	1012.600	1012.349	1012.099	1011.848	1011.598	1011.347	1011.096	1010.845
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.265	0.261	0.255	0.251	0.245	0.241	0.236	0.231	0.226	0.231
92.5	6.513	6.438	6.362	6.287	6.213	6.138	6.062	5.987	5.912	5.987
95.0	27.071	26.931	26.790	26.650	26.510	26.369	26.228	26.089	25.948	26.089
97.5	50.463	50.292	50.121	49.951	49.780	49.610	49.440	49.269	49.098	49.269
100.0	75.813	75.587	75.362	75.136	74.911	74.685	74.460	74.234	74.008	74.234
102.5	102.814	102.513	102.213	101.912	101.611	101.310	101.010	100.709	100.408	100.709
105.0	130.963	130.563	130.161	129.760	129.359	128.958	128.557	128.156	127.755	128.156
107.5	160.376	159.919	159.463	159.007	158.551	158.095	157.639	157.182	156.726	157.182
110.0	190.376	189.864	189.352	188.841	188.330	187.819	187.307	186.796	186.284	186.796
112.5	220.902	220.320	219.738	219.156	218.575	217.994	217.411	216.830	216.248	216.830
115.0	251.954	251.333	250.711	250.089	249.467	248.846	248.224	247.602	246.980	247.602
117.5	283.287	282.590	281.893	281.196	280.499	279.802	279.105	278.408	277.711	278.408
120.0	314.410	313.699	312.986	312.274	311.562	310.850	310.138	309.426	308.714	309.426
122.5	344.851	344.119	343.387	342.655	341.923	341.190	340.458	339.726	338.995	339.726
125.0	377.066	376.194	375.321	374.450	373.577	372.704	371.832	370.959	370.087	370.959
127.5	409.352	408.454	407.557	406.660	405.762	404.864	403.968	403.070	402.172	403.070
130.0	441.402	440.515	439.627	438.739	437.852	436.964	436.077	435.190	434.302	435.190
132.5	473.332	472.379	471.427	470.475	469.521	468.569	467.617	466.664	465.711	466.664
135.0	504.470	503.517	502.565	501.612	500.659	499.706	498.754	497.800	496.848	497.800
137.5	536.360	535.256	534.153	533.050	531.947	530.844	529.741	528.637	527.534	528.637
140.0	570.606	569.452	568.299	567.146	565.992	564.839	563.687	562.533	561.380	562.533
142.5	605.905	604.852	603.799	602.747	601.693	600.640	599.588	598.534	597.482	598.534
145.0	640.804	639.901	638.999	638.096	637.194	636.291	635.389	634.486	633.583	634.486
147.5	675.051	674.097	673.145	672.192	671.240	670.286	669.334	668.381	667.429	668.381
150.0	707.392	706.288	705.185	704.082	702.979	701.876	700.773	699.669	698.566	699.669
152.5	738.078	736.974	735.871	734.769	733.665	732.562	731.459	730.356	729.253	730.356
155.0	768.865	767.861	766.859	765.855	764.853	763.849	762.847	761.844	760.841	761.844
157.5	799.250	798.397	797.545	796.692	795.840	794.987	794.135	793.282	792.431	793.282
160.0	830.388	829.535	828.683	827.830	826.978	826.125	825.273	824.420	823.568	824.420
162.5	860.221	859.418	858.617	857.814	857.012	856.209	855.408	854.605	853.803	854.605
165.0	887.948	887.347	886.745	886.144	885.542	884.941	884.339	883.738	883.136	883.738

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CANDELA TABULATION - (Cont.)

167.5	915.526	914.975	914.423	913.872	913.320	912.769	912.218	911.667	911.115	911.667
170.0	941.400	940.998	940.598	940.197	939.795	939.394	938.993	938.592	938.191	938.592
172.5	965.969	965.768	965.568	965.368	965.167	964.967	964.766	964.565	964.365	964.565
175.0	989.535	989.435	989.334	989.235	989.135	989.034	988.934	988.834	988.733	988.834
177.5	1010.945	1011.046	1011.146	1011.246	1011.347	1011.446	1011.547	1011.647	1011.747	1011.647
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**									
	275.0	**277.5**	**280.0**	**282.5**	**285.0**	**287.5**	**290.0**	**292.5**	**295.0**	**297.5**
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.236	0.241	0.245	0.251	0.255	0.261	0.265	0.271	0.271	0.271
92.5	6.062	6.138	6.213	6.287	6.362	6.438	6.513	6.588	6.799	7.009
95.0	26.228	26.369	26.510	26.650	26.790	26.931	27.071	27.211	27.507	27.803
97.5	49.440	49.610	49.780	49.951	50.121	50.292	50.463	50.633	51.029	51.425
100.0	74.460	74.685	74.911	75.136	75.362	75.587	75.813	76.039	76.545	77.052
102.5	101.010	101.310	101.611	101.912	102.213	102.513	102.814	103.115	103.777	104.439
105.0	128.557	128.958	129.359	129.760	130.161	130.563	130.963	131.364	132.217	133.069
107.5	157.639	158.095	158.551	159.007	159.463	159.919	160.376	160.832	161.931	163.029
110.0	187.307	187.819	188.330	188.841	189.352	189.864	190.376	190.887	192.246	193.605
112.5	217.411	217.994	218.575	219.156	219.738	220.320	220.902	221.483	223.113	224.742

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CANDELA TABULATION - (Cont.)

115.0	248.224	248.846	249.467	250.089	250.711	251.333	251.954	252.576	254.391	256.206
117.5	279.105	279.802	280.499	281.196	281.893	282.590	283.287	283.984	286.050	288.116
120.0	310.138	310.850	311.562	312.274	312.986	313.699	314.410	315.122	317.474	319.826
122.5	340.458	341.190	341.923	342.655	343.387	344.119	344.851	345.583	348.095	350.607
125.0	371.832	372.704	373.577	374.450	375.321	376.194	377.066	377.939	380.586	383.234
127.5	403.968	404.864	405.762	406.660	407.557	408.454	409.352	410.250	413.007	415.765
130.0	436.077	436.964	437.852	438.739	439.627	440.515	441.402	442.290	445.143	447.995
132.5	467.617	468.569	469.521	470.475	471.427	472.379	473.332	474.285	477.243	480.201
135.0	498.754	499.706	500.659	501.612	502.565	503.517	504.470	505.423	508.581	511.740
137.5	529.741	530.844	531.947	533.050	534.153	535.256	536.360	537.463	540.822	544.182
140.0	563.687	564.839	565.992	567.146	568.299	569.452	570.606	571.759	575.119	578.478
142.5	599.588	600.640	601.693	602.747	603.799	604.852	605.905	606.958	610.267	613.577
145.0	635.389	636.291	637.194	638.096	638.999	639.901	640.804	641.706	644.915	648.124
147.5	669.334	670.286	671.240	672.192	673.145	674.097	675.051	676.003	679.112	682.220
150.0	700.773	701.876	702.979	704.082	705.185	706.288	707.392	708.494	711.653	714.812
152.5	731.459	732.562	733.665	734.769	735.871	736.974	738.078	739.181	742.390	745.599
155.0	762.847	763.849	764.853	765.855	766.859	767.861	768.865	769.867	772.926	775.984
157.5	794.135	794.987	795.840	796.692	797.545	798.397	799.250	800.102	803.010	805.918
160.0	825.273	826.125	826.978	827.830	828.683	829.535	830.388	831.240	833.797	836.354
162.5	855.408	856.209	857.012	857.814	858.617	859.418	860.221	861.023	863.330	865.636
165.0	884.339	884.941	885.542	886.144	886.745	887.347	887.948	888.550	890.707	892.862
167.5	912.218	912.769	913.320	913.872	914.423	914.975	915.526	916.078	917.883	919.688
170.0	938.993	939.394	939.795	940.197	940.598	940.998	941.400	941.801	943.205	944.609
172.5	964.766	964.967	965.167	965.368	965.568	965.768	965.969	966.170	967.172	968.176
175.0	988.934	989.034	989.135	989.235	989.334	989.435	989.535	989.635	990.187	990.738
177.5	1011.547	1011.446	1011.347	1011.246	1011.146	1011.046	1010.945	1010.845	1011.096	1011.347
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**									
	300.0	**302.5**	**305.0**	**307.5**	**310.0**	**312.5**	**315.0**	**317.5**	**320.0**	**322.5**
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.276	0.280	0.286
92.5	7.220	7.430	7.642	7.852	8.063	8.273	8.484	8.814	9.146	9.477
95.0	28.099	28.395	28.690	28.986	29.282	29.578	29.874	30.240	30.606	30.972
97.5	51.821	52.217	52.614	53.010	53.406	53.802	54.198	54.704	55.211	55.717
100.0	77.558	78.065	78.572	79.078	79.584	80.091	80.597	81.389	82.181	82.974
102.5	105.100	105.762	106.424	107.086	107.747	108.410	109.072	110.220	111.369	112.516
105.0	133.922	134.774	135.627	136.479	137.332	138.184	139.037	140.591	142.145	143.700
107.5	164.127	165.225	166.323	167.422	168.519	169.617	170.716	172.712	174.707	176.703
110.0	194.963	196.322	197.681	199.040	200.399	201.758	203.117	205.609	208.100	210.593
112.5	226.372	228.001	229.631	231.261	232.890	234.520	236.149	239.103	242.056	245.009
115.0	258.021	259.837	261.652	263.467	265.282	267.097	268.912	272.322	275.732	279.141
117.5	290.182	292.248	294.314	296.379	298.445	300.511	302.576	306.302	310.027	313.753
120.0	322.177	324.529	326.881	329.231	331.583	333.935	336.286	340.287	344.289	348.290
122.5	353.119	355.631	358.143	360.655	363.167	365.679	368.191	372.724	377.256	381.789
125.0	385.881	388.529	391.176	393.824	396.471	399.118	401.766	406.550	411.333	416.116
127.5	418.523	421.280	424.039	426.796	429.554	432.312	435.070	440.129	445.189	450.248
130.0	450.849	453.702	456.554	459.408	462.261	465.114	467.967	473.282	478.597	483.912
132.5	483.160	486.118	489.076	492.035	494.994	497.952	500.910	506.376	511.841	517.306
135.0	514.899	518.058	521.217	524.376	527.534	530.693	533.852	539.569	545.284	551.001
137.5	547.541	550.901	554.260	557.620	560.979	564.339	567.698	573.615	579.532	585.448
140.0	581.838	585.197	588.556	591.915	595.275	598.634	601.994	608.011	614.028	620.045
142.5	616.886	620.195	623.505	626.814	630.124	633.433	636.742	642.759	648.776	654.793
145.0	651.333	654.542	657.751	660.960	664.169	667.378	670.587	676.654	682.721	688.789
147.5	685.329	688.438	691.546	694.655	697.764	700.872	703.981	709.998	716.015	722.032
150.0	717.971	721.130	724.289	727.448	730.606	733.765	736.924	742.790	748.657	754.523
152.5	748.808	752.017	755.226	758.435	761.644	764.853	768.062	773.778	779.494	785.210
155.0	779.043	782.101	785.161	788.219	791.278	794.336	797.395	802.961	808.526	814.092
157.5	808.827	811.735	814.643	817.551	820.460	823.368	826.276	831.641	837.006	842.371
160.0	838.911	841.469	844.026	846.583	849.140	851.698	854.255	859.319	864.383	869.448
162.5	867.943	870.250	872.556	874.862	877.169	879.475	881.782	886.445	891.108	895.771
165.0	895.019	897.175	899.330	901.487	903.643	905.799	907.955	912.167	916.379	920.590
167.5	921.493	923.299	925.103	926.908	928.713	930.518	932.324	936.034	939.745	943.455
170.0	946.013	947.416	948.821	950.225	951.629	953.033	954.436	957.696	960.955	964.214
172.5	969.178	970.181	971.184	972.186	973.189	974.192	975.195	977.952	980.711	983.468
175.0	991.290	991.842	992.393	992.945	993.497	994.047	994.599	996.806	999.012	1001.218
177.5	1011.598	1011.848	1012.099	1012.349	1012.600	1012.851	1013.102	1014.656	1016.210	1017.765
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**									
	325.0	**327.5**	**330.0**	**332.5**	**335.0**	**337.5**	**340.0**	**342.5**	**345.0**	**347.5**
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.291	0.296	0.301	0.306	0.311	0.316	0.512	0.707	0.903	1.098
92.5	9.808	10.139	10.470	10.801	11.132	11.463	12.451	13.438	14.426	15.413
95.0	31.339	31.704	32.070	32.437	32.802	33.169	34.447	35.726	37.004	38.282
97.5	56.223	56.730	57.236	57.743	58.250	58.756	60.395	62.035	63.674	65.314
100.0	83.766	84.558	85.350	86.143	86.935	87.727	89.827	91.928	94.029	96.130
102.5	113.665	114.813	115.962	117.109	118.258	119.406	122.079	124.751	127.424	130.096
105.0	145.254	146.808	148.363	149.917	151.471	153.026	156.265	159.504	162.743	165.982
107.5	178.698	180.694	182.689	184.685	186.680	188.676	192.381	196.087	199.792	203.497
110.0	213.085	215.576	218.069	220.561	223.053	225.545	229.661	233.778	237.894	242.011
112.5	247.963	250.916	253.870	256.823	259.776	262.730	267.302	271.876	276.448	281.021
115.0	282.551	285.961	289.369	292.779	296.189	299.599	304.543	309.486	314.431	319.374
117.5	317.478	321.204	324.929	328.655	332.380	336.106	341.381	346.656	351.931	357.206
120.0	352.291	356.293	360.294	364.295	368.297	372.298	377.964	383.630	389.296	394.961
122.5	386.323	390.855	395.388	399.921	404.453	408.986	414.938	420.890	426.841	432.793
125.0	420.900	425.683	430.467	435.250	440.034	444.817	451.150	457.483	463.816	470.148
127.5	455.307	460.366	465.425	470.484	475.543	480.602	487.321	494.040	500.760	507.479
130.0	489.227	494.542	499.857	505.172	510.487	515.802	522.772	529.741	536.711	543.681
132.5	522.771	528.237	533.702	539.167	544.632	550.098	557.268	564.438	571.609	578.779
135.0	556.717	562.433	568.149	573.865	579.581	585.298	592.568	599.839	607.109	614.379
137.5	591.364	597.282	603.198	609.114	615.032	620.948	628.268	635.589	642.909	650.230
140.0	626.062	632.079	638.096	644.113	650.130	656.147	663.517	670.888	678.259	685.630
142.5	660.810	666.827	672.843	678.861	684.877	690.894	698.215	705.535	712.856	720.177
145.0	694.856	700.923	706.989	713.057	719.124	725.191	732.311	739.431	746.551	753.671
147.5	728.049	734.066	740.083	746.100	752.117	758.134	765.054	771.973	778.892	785.812

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CANDELA TABULATION - (Cont.)

150.0	760.390	766.257	772.123	777.989	783.856	789.722	796.491	803.261	810.030	816.799
152.5	790.926	796.642	802.359	808.074	813.791	819.506	826.175	832.844	839.513	846.182
155.0	819.657	825.223	830.788	836.354	841.919	847.485	853.954	860.422	866.890	873.358
157.5	847.736	853.101	858.466	863.832	869.196	874.561	880.678	886.795	892.913	899.030
160.0	874.512	879.576	884.640	889.704	894.769	899.833	905.499	911.165	916.830	922.497
162.5	900.434	905.098	909.761	914.424	919.087	923.750	928.865	933.979	939.093	944.207
165.0	924.803	929.014	933.227	937.438	941.651	945.862	950.375	954.887	959.401	963.913
167.5	947.166	950.876	954.587	958.297	962.008	965.718	969.630	973.540	977.451	981.362
170.0	967.473	970.732	973.992	977.251	980.510	983.769	987.028	990.288	993.547	996.806
172.5	986.226	988.984	991.742	994.499	997.257	1000.015	1002.522	1005.029	1007.536	1010.043
175.0	1003.425	1005.630	1007.837	1010.043	1012.249	1014.455	1016.110	1017.765	1019.419	1021.074
177.5	1019.319	1020.873	1022.428	1023.982	1025.537	1027.091	1027.793	1028.495	1029.197	1029.899
180.0	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045	1032.045

Vert. Angles	**Horizontal Angles**				
	350.0	**352.5**	**355.0**	**357.5**	**360.0**
0.0	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000
90.0	1.294	1.489	1.685	1.880	2.076
92.5	16.402	17.389	18.377	19.364	20.352
95.0	39.562	40.840	42.119	43.397	44.675

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CANDELA TABULATION - (Cont.)

97.5	66.954	68.593	70.233	71.872	73.512
100.0	98.232	100.332	102.433	104.534	106.635
102.5	132.769	135.442	138.114	140.786	143.459
105.0	169.221	172.460	175.699	178.938	182.177
107.5	207.204	210.909	214.614	218.320	222.025
110.0	246.128	250.244	254.361	258.477	262.594
112.5	285.594	290.167	294.739	299.313	303.885
115.0	324.318	329.262	334.206	339.150	344.094
117.5	362.481	367.755	373.030	378.305	383.579
120.0	400.628	406.293	411.960	417.626	423.292
122.5	438.745	444.697	450.648	456.600	462.551
125.0	476.481	482.813	489.146	495.479	501.812
127.5	514.198	520.916	527.635	534.354	541.073
130.0	550.650	557.620	564.590	571.559	578.528
132.5	585.949	593.119	600.290	607.460	614.630
135.0	621.649	628.920	636.190	643.461	650.731
137.5	657.551	664.872	672.192	679.513	686.833
140.0	693.000	700.372	707.742	715.113	722.483
142.5	727.498	734.818	742.139	749.459	756.780
145.0	760.791	767.911	775.032	782.151	789.272
147.5	792.732	799.651	806.571	813.490	820.409
150.0	823.568	830.337	837.106	843.875	850.644
152.5	852.850	859.519	866.188	872.857	879.525
155.0	879.826	886.295	892.763	899.231	905.699
157.5	905.147	911.264	917.382	923.499	929.616
160.0	928.162	933.829	939.494	945.161	950.826
162.5	949.322	954.436	959.550	964.665	969.779
165.0	968.426	972.938	977.451	981.964	986.476
167.5	985.273	989.184	993.095	997.006	1000.917
170.0	1000.065	1003.324	1006.583	1009.843	1013.102
172.5	1012.550	1015.057	1017.564	1020.072	1022.578
175.0	1022.729	1024.384	1026.038	1027.693	1029.348
177.5	1030.601	1031.302	1032.005	1032.706	1033.409
180.0	1032.045	1032.045	1032.045	1032.045	1032.045

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.75	N.A.	0.00
10-90	0.75	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.75	N.A.	0.00
90-110	263.74	N.A.	9.20
90-120	610.47	N.A.	21.30
90-130	1064.77	N.A.	37.20
90-150	2069.63	N.A.	72.20
90-180	2864.64	N.A.	100.00
110-180	2600.9	N.A.	90.80
0-180	2865.39	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.75
90-100	60.44
100-110	203.29
110-120	346.73
120-130	454.30
130-140	507.12
140-150	497.75
150-160	418.95
160-170	278.50
170-180	97.56

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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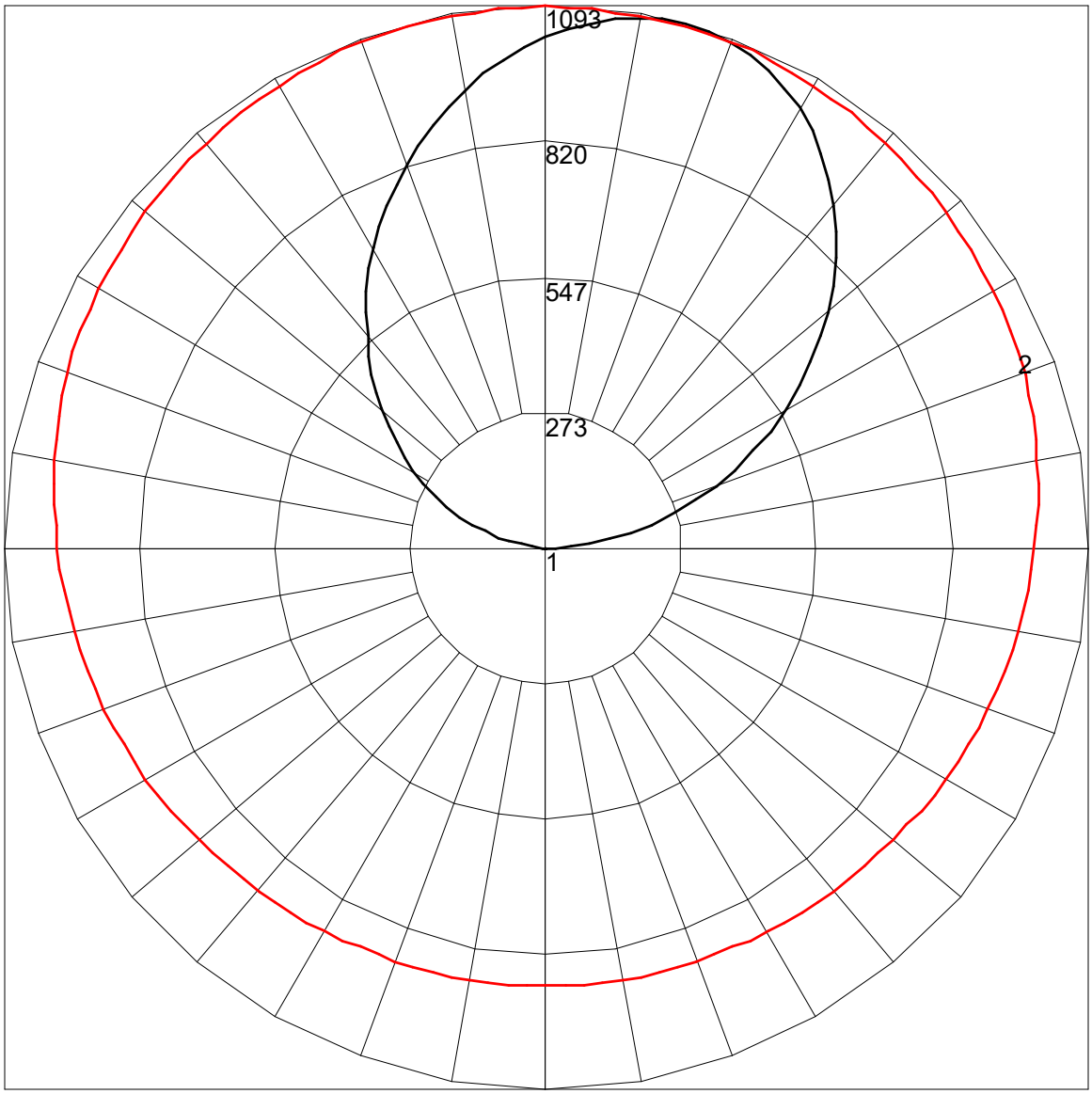
POLAR GRAPH



Maximum Candela = 1093.428 Located At Horizontal Angle = 90, Vertical Angle = 165
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (165) (Through Max. Cd.)

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