



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZNIA-2LEDSE-55L-DA-W-50-ID.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-10925
[TESTLAB] LSI INDUSTRIES, INC
[ISSUE DATE] 01/06/21
[TEST DATE] 04/03/19
[MANUFACT] LSI INDUSTRIES, INC
[LUMCAT] ZNIA-2LEDSE-55L-DA-W-50-ID
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	52970
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	428
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)	2.00 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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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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	335	359	384	408	432	457	481	505	530	554
95.0	768	806	845	883	921	960	998	1036	1075	1113
97.5	1296	1342	1389	1435	1481	1528	1574	1620	1667	1713
100.0	1886	1940	1993	2047	2101	2154	2208	2262	2315	2369
102.5	2526	2585	2644	2702	2761	2820	2879	2937	2996	3055
105.0	3187	3250	3313	3377	3440	3503	3566	3630	3693	3756
107.5	3873	3939	4004	4070	4135	4201	4266	4332	4397	4463
110.0	4600	4663	4725	4788	4851	4913	4976	5039	5101	5164
112.5	5327	5387	5448	5508	5569	5629	5690	5750	5811	5871
115.0	6018	6080	6141	6203	6264	6326	6387	6449	6510	6572
117.5	6709	6769	6830	6890	6951	7011	7072	7132	7193	7253
120.0	7395	7454	7513	7571	7630	7689	7748	7806	7865	7924
122.5	8077	8133	8190	8246	8303	8359	8416	8472	8529	8585
125.0	8753	8807	8860	8914	8967	9021	9074	9128	9181	9235
127.5	9408	9459	9511	9562	9614	9665	9717	9768	9820	9871
130.0	10089	10136	10183	10230	10277	10323	10370	10417	10464	10511
132.5	10725	10769	10813	10857	10901	10945	10989	11033	11077	11121

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CANDELA TABULATION - (Cont.)

135.0	11370	11411	11452	11494	11535	11576	11617	11659	11700	11741
137.5	11970	12010	12050	12090	12130	12171	12211	12251	12291	12331
140.0	12549	12586	12623	12659	12696	12733	12770	12806	12843	12880
142.5	13109	13143	13178	13212	13247	13281	13316	13350	13385	13419
145.0	13642	13673	13704	13735	13766	13798	13829	13860	13891	13922
147.5	14135	14163	14191	14220	14248	14276	14304	14333	14361	14389
150.0	14603	14628	14654	14679	14705	14730	14756	14781	14807	14832
152.5	15020	15043	15066	15089	15112	15136	15159	15182	15205	15228
155.0	15401	15422	15443	15464	15485	15505	15526	15547	15568	15589
157.5	15731	15751	15771	15790	15810	15830	15850	15869	15889	15909
160.0	16041	16058	16075	16092	16109	16126	16143	16160	16177	16194
162.5	16301	16316	16331	16347	16362	16377	16392	16408	16423	16438
165.0	16509	16524	16538	16553	16568	16582	16597	16612	16626	16641
167.5	16677	16691	16705	16719	16733	16748	16762	16776	16790	16804
170.0	16799	16812	16825	16838	16851	16864	16877	16890	16903	16916
172.5	16895	16906	16918	16929	16940	16952	16963	16974	16986	16997
175.0	16941	16951	16961	16972	16982	16992	17002	17013	17023	17033
177.5	16956	16965	16974	16983	16992	17002	17011	17020	17029	17038
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	590	625	661	696	732	767	803	838	874	904
95.0	1149	1185	1221	1257	1294	1330	1366	1402	1438	1468
97.5	1751	1790	1828	1867	1905	1944	1982	2021	2059	2092
100.0	2408	2448	2487	2527	2566	2606	2645	2685	2724	2757
102.5	3096	3136	3177	3218	3258	3299	3340	3380	3421	3450
105.0	3800	3843	3887	3930	3974	4017	4061	4104	4148	4179
107.5	4508	4553	4598	4643	4689	4734	4779	4824	4869	4903
110.0	5215	5267	5318	5370	5421	5473	5524	5576	5627	5658
112.5	5922	5974	6025	6076	6128	6179	6230	6282	6333	6364
115.0	6626	6680	6735	6789	6843	6897	6952	7006	7060	7088
117.5	7308	7363	7417	7472	7527	7582	7636	7691	7746	7775
120.0	7980	8037	8093	8150	8206	8263	8319	8376	8432	8459
122.5	8641	8697	8753	8809	8864	8920	8976	9032	9088	9117
125.0	9290	9345	9400	9455	9509	9564	9619	9674	9729	9759
127.5	9925	9978	10032	10086	10139	10193	10247	10300	10354	10386
130.0	10564	10617	10670	10723	10777	10830	10883	10936	10989	11016
132.5	11172	11223	11274	11325	11375	11426	11477	11528	11579	11604
135.0	11787	11833	11878	11924	11970	12016	12061	12107	12153	12177
137.5	12374	12418	12461	12505	12548	12592	12635	12679	12722	12743
140.0	12922	12964	13005	13047	13089	13131	13172	13214	13256	13278
142.5	13459	13499	13539	13579	13620	13660	13700	13740	13780	13799
145.0	13959	13996	14034	14071	14108	14145	14183	14220	14257	14277
147.5	14425	14460	14496	14532	14567	14603	14639	14674	14710	14730
150.0	14865	14897	14930	14963	14995	15028	15061	15093	15126	15144
152.5	15258	15288	15318	15348	15377	15407	15437	15467	15497	15515
155.0	15617	15644	15672	15700	15727	15755	15783	15810	15838	15853
157.5	15933	15958	15982	16006	16031	16055	16079	16104	16128	16141
160.0	16215	16237	16258	16280	16301	16323	16344	16366	16387	16398
162.5	16455	16473	16490	16508	16525	16543	16560	16578	16595	16604
165.0	16655	16668	16682	16695	16709	16722	16736	16749	16763	16771
167.5	16815	16825	16836	16847	16857	16868	16879	16889	16900	16906
170.0	16925	16934	16943	16952	16961	16970	16979	16988	16997	17002
172.5	17005	17013	17021	17029	17036	17044	17052	17060	17068	17071
175.0	17040	17048	17055	17062	17070	17077	17084	17092	17099	17102
177.5	17045	17053	17060	17067	17075	17082	17089	17097	17104	17106
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

Vert. Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	934	964	994	1024	1054	1084	1114	1144	1160	1176
95.0	1498	1528	1558	1588	1618	1648	1678	1708	1721	1734
97.5	2124	2157	2190	2222	2255	2288	2320	2353	2367	2380
100.0	2790	2822	2855	2888	2921	2953	2986	3019	3031	3043
102.5	3479	3507	3536	3565	3594	3622	3651	3680	3695	3710
105.0	4210	4241	4272	4303	4334	4365	4396	4427	4441	4454
107.5	4937	4971	5005	5038	5072	5106	5140	5174	5185	5197
110.0	5689	5720	5751	5782	5813	5844	5875	5906	5917	5928
112.5	6395	6426	6457	6489	6520	6551	6582	6613	6624	6635
115.0	7116	7145	7173	7201	7229	7258	7286	7314	7325	7337
117.5	7805	7834	7864	7893	7923	7952	7982	8011	8020	8029
120.0	8486	8513	8540	8568	8595	8622	8649	8676	8688	8701
122.5	9146	9174	9203	9232	9261	9289	9318	9347	9357	9366
125.0	9790	9820	9851	9881	9912	9942	9973	10003	10013	10022
127.5	10417	10449	10480	10512	10543	10575	10606	10638	10645	10653
130.0	11042	11069	11095	11122	11148	11175	11201	11228	11235	11242
132.5	11630	11655	11680	11706	11731	11756	11782	11807	11812	11817
135.0	12202	12226	12250	12275	12299	12323	12348	12372	12375	12379
137.5	12765	12786	12808	12829	12851	12872	12894	12915	12917	12919
140.0	13300	13322	13344	13366	13388	13410	13432	13454	13453	13452
142.5	13818	13837	13856	13876	13895	13914	13933	13952	13951	13950
145.0	14297	14316	14336	14356	14376	14395	14415	14435	14434	14434
147.5	14750	14769	14789	14809	14829	14848	14868	14888	14888	14888
150.0	15162	15180	15198	15217	15235	15253	15271	15289	15288	15288
152.5	15532	15550	15567	15585	15602	15620	15637	15655	15653	15652
155.0	15867	15882	15897	15911	15926	15941	15955	15970	15968	15967
157.5	16154	16167	16180	16193	16206	16219	16232	16245	16243	16241
160.0	16409	16419	16430	16441	16452	16462	16473	16484	16482	16480
162.5	16613	16622	16631	16641	16650	16659	16668	16677	16675	16673
165.0	16779	16787	16795	16802	16810	16818	16826	16834	16832	16830
167.5	16912	16919	16925	16931	16937	16944	16950	16956	16953	16950

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CANDELA TABULATION - (Cont.)

170.0	17006	17011	17015	17020	17024	17029	17033	17038	17035	17032
172.5	17075	17078	17082	17085	17089	17092	17096	17099	17096	17092
175.0	17105	17107	17110	17113	17116	17118	17121	17124	17121	17117
177.5	17108	17111	17113	17115	17117	17120	17122	17124	17120	17116
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

Vert. Angles	Horizontal Angles									
	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	1191	1207	1223	1239	1254	1270	1286	1270	1254	1239
95.0	1747	1760	1773	1786	1799	1812	1825	1812	1799	1786
97.5	2394	2407	2421	2434	2448	2461	2475	2461	2448	2434
100.0	3055	3067	3078	3090	3102	3114	3126	3114	3102	3090
102.5	3726	3741	3756	3771	3787	3802	3817	3802	3787	3771
105.0	4468	4481	4495	4508	4522	4535	4549	4535	4522	4508
107.5	5208	5219	5231	5242	5253	5265	5276	5265	5253	5242
110.0	5938	5949	5960	5971	5981	5992	6003	5992	5981	5971
112.5	6647	6658	6669	6680	6692	6703	6714	6703	6692	6680
115.0	7348	7359	7371	7382	7393	7405	7416	7405	7393	7382

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CANDELA TABULATION - (Cont.)

117.5	8038	8047	8056	8065	8074	8083	8092	8083	8074	8065
120.0	8713	8726	8738	8751	8763	8776	8788	8776	8763	8751
122.5	9376	9386	9395	9405	9415	9424	9434	9424	9415	9405
125.0	10032	10041	10051	10060	10070	10079	10089	10079	10070	10060
127.5	10660	10667	10675	10682	10689	10697	10704	10697	10689	10682
130.0	11248	11255	11262	11269	11275	11282	11289	11282	11275	11269
132.5	11822	11827	11833	11838	11843	11848	11853	11848	11843	11838
135.0	12382	12385	12389	12392	12395	12399	12402	12399	12395	12392
137.5	12920	12922	12924	12926	12927	12929	12931	12929	12927	12926
140.0	13451	13450	13448	13447	13446	13445	13444	13445	13446	13447
142.5	13949	13948	13946	13945	13944	13943	13942	13943	13944	13945
145.0	14433	14433	14432	14432	14431	14431	14430	14431	14431	14432
147.5	14888	14888	14888	14888	14888	14888	14888	14888	14888	14888
150.0	15287	15287	15286	15286	15285	15285	15284	15285	15285	15286
152.5	15650	15648	15647	15645	15643	15642	15640	15642	15643	15645
155.0	15965	15963	15962	15960	15958	15957	15955	15957	15958	15960
157.5	16240	16238	16236	16234	16233	16231	16229	16231	16233	16234
160.0	16479	16477	16475	16473	16472	16470	16468	16470	16472	16473
162.5	16672	16670	16668	16666	16665	16663	16661	16663	16665	16666
165.0	16827	16825	16823	16821	16818	16816	16814	16816	16818	16821
167.5	16948	16945	16942	16939	16937	16934	16931	16934	16937	16939
170.0	17029	17026	17024	17021	17018	17015	17012	17015	17018	17021
172.5	17089	17085	17082	17078	17075	17071	17068	17071	17075	17078
175.0	17114	17111	17107	17104	17101	17097	17094	17097	17101	17104
177.5	17112	17108	17104	17100	17096	17092	17088	17092	17096	17100
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	1223	1207	1191	1176	1160	1144	1114	1084	1054	1024
95.0	1773	1760	1747	1734	1721	1708	1678	1648	1618	1588
97.5	2421	2407	2394	2380	2367	2353	2320	2288	2255	2222
100.0	3078	3067	3055	3043	3031	3019	2986	2953	2921	2888
102.5	3756	3741	3726	3710	3695	3680	3651	3622	3594	3565
105.0	4495	4481	4468	4454	4441	4427	4396	4365	4334	4303
107.5	5231	5219	5208	5197	5185	5174	5140	5106	5072	5038
110.0	5960	5949	5938	5928	5917	5906	5875	5844	5813	5782
112.5	6669	6658	6647	6635	6624	6613	6582	6551	6520	6489
115.0	7371	7359	7348	7337	7325	7314	7286	7258	7229	7201
117.5	8056	8047	8038	8029	8020	8011	7982	7952	7923	7893
120.0	8738	8726	8713	8701	8688	8676	8649	8622	8595	8568
122.5	9395	9386	9376	9366	9357	9347	9318	9289	9261	9232
125.0	10051	10041	10032	10022	10013	10003	9973	9942	9912	9881
127.5	10675	10667	10660	10653	10645	10638	10606	10575	10543	10512
130.0	11262	11255	11248	11242	11235	11228	11201	11175	11148	11122
132.5	11833	11827	11822	11817	11812	11807	11782	11756	11731	11706
135.0	12389	12385	12382	12379	12375	12372	12348	12323	12299	12275
137.5	12924	12922	12920	12919	12917	12915	12894	12872	12851	12829
140.0	13448	13450	13451	13452	13453	13454	13432	13410	13388	13366
142.5	13946	13948	13949	13950	13951	13952	13933	13914	13895	13876
145.0	14432	14433	14433	14434	14434	14435	14415	14395	14376	14356
147.5	14888	14888	14888	14888	14888	14888	14868	14848	14829	14809
150.0	15286	15287	15287	15288	15288	15289	15271	15253	15235	15217
152.5	15647	15648	15650	15652	15653	15655	15637	15620	15602	15585
155.0	15962	15963	15965	15967	15968	15970	15955	15941	15926	15911
157.5	16236	16238	16240	16241	16243	16245	16232	16219	16206	16193
160.0	16475	16477	16479	16480	16482	16484	16473	16462	16452	16441
162.5	16668	16670	16672	16673	16675	16677	16668	16659	16650	16641
165.0	16823	16825	16827	16830	16832	16834	16826	16818	16810	16802
167.5	16942	16945	16948	16950	16953	16956	16950	16944	16937	16931
170.0	17024	17026	17029	17032	17035	17038	17033	17029	17024	17020
172.5	17082	17085	17089	17092	17096	17099	17096	17092	17089	17085
175.0	17107	17111	17114	17117	17121	17124	17121	17118	17116	17113
177.5	17104	17108	17112	17116	17120	17124	17122	17120	17117	17115
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0

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12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	994	964	934	904	874	838	803	767	732	696
95.0	1558	1528	1498	1468	1438	1402	1366	1330	1294	1257
97.5	2190	2157	2124	2092	2059	2021	1982	1944	1905	1867
100.0	2855	2822	2790	2757	2724	2685	2645	2606	2566	2527
102.5	3536	3507	3479	3450	3421	3380	3340	3299	3258	3218
105.0	4272	4241	4210	4179	4148	4104	4061	4017	3974	3930
107.5	5005	4971	4937	4903	4869	4824	4779	4734	4689	4643
110.0	5751	5720	5689	5658	5627	5576	5524	5473	5421	5370
112.5	6457	6426	6395	6364	6333	6282	6230	6179	6128	6076
115.0	7173	7145	7116	7088	7060	7006	6952	6897	6843	6789
117.5	7864	7834	7805	7775	7746	7691	7636	7582	7527	7472
120.0	8540	8513	8486	8459	8432	8376	8319	8263	8206	8150
122.5	9203	9174	9146	9117	9088	9032	8976	8920	8864	8809
125.0	9851	9820	9790	9759	9729	9674	9619	9564	9509	9455
127.5	10480	10449	10417	10386	10354	10300	10247	10193	10139	10086
130.0	11095	11069	11042	11016	10989	10936	10883	10830	10777	10723
132.5	11680	11655	11630	11604	11579	11528	11477	11426	11375	11325
135.0	12250	12226	12202	12177	12153	12107	12061	12016	11970	11924
137.5	12808	12786	12765	12743	12722	12679	12635	12592	12548	12505
140.0	13344	13322	13300	13278	13256	13214	13172	13131	13089	13047
142.5	13856	13837	13818	13799	13780	13740	13700	13660	13620	13579
145.0	14336	14316	14297	14277	14257	14220	14183	14145	14108	14071
147.5	14789	14769	14750	14730	14710	14674	14639	14603	14567	14532
150.0	15198	15180	15162	15144	15126	15093	15061	15028	14995	14963

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CANDELA TABULATION - (Cont.)

152.5	15567	15550	15532	15515	15497	15467	15437	15407	15377	15348
155.0	15897	15882	15867	15853	15838	15810	15783	15755	15727	15700
157.5	16180	16167	16154	16141	16128	16104	16079	16055	16031	16006
160.0	16430	16419	16409	16398	16387	16366	16344	16323	16301	16280
162.5	16631	16622	16613	16604	16595	16578	16560	16543	16525	16508
165.0	16795	16787	16779	16771	16763	16749	16736	16722	16709	16695
167.5	16925	16919	16912	16906	16900	16889	16879	16868	16857	16847
170.0	17015	17011	17006	17002	16997	16988	16979	16970	16961	16952
172.5	17082	17078	17075	17071	17068	17060	17052	17044	17036	17029
175.0	17110	17107	17105	17102	17099	17092	17084	17077	17070	17062
177.5	17113	17111	17108	17106	17104	17097	17089	17082	17075	17067
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	661	625	590	554	530	505	481	457	432	408
95.0	1221	1185	1149	1113	1075	1036	998	960	921	883
97.5	1828	1790	1751	1713	1667	1620	1574	1528	1481	1435

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CANDELA TABULATION - (Cont.)

100.0	2487	2448	2408	2369	2315	2262	2208	2154	2101	2047
102.5	3177	3136	3096	3055	2996	2937	2879	2820	2761	2702
105.0	3887	3843	3800	3756	3693	3630	3566	3503	3440	3377
107.5	4598	4553	4508	4463	4397	4332	4266	4201	4135	4070
110.0	5318	5267	5215	5164	5101	5039	4976	4913	4851	4788
112.5	6025	5974	5922	5871	5811	5750	5690	5629	5569	5508
115.0	6735	6680	6626	6572	6510	6449	6387	6326	6264	6203
117.5	7417	7363	7308	7253	7193	7132	7072	7011	6951	6890
120.0	8093	8037	7980	7924	7865	7806	7748	7689	7630	7571
122.5	8753	8697	8641	8585	8529	8472	8416	8359	8303	8246
125.0	9400	9345	9290	9235	9181	9128	9074	9021	8967	8914
127.5	10032	9978	9925	9871	9820	9768	9717	9665	9614	9562
130.0	10670	10617	10564	10511	10464	10417	10370	10323	10277	10230
132.5	11274	11223	11172	11121	11077	11033	10989	10945	10901	10857
135.0	11878	11833	11787	11741	11700	11659	11617	11576	11535	11494
137.5	12461	12418	12374	12331	12291	12251	12211	12171	12130	12090
140.0	13005	12964	12922	12880	12843	12806	12770	12733	12696	12659
142.5	13539	13499	13459	13419	13385	13350	13316	13281	13247	13212
145.0	14034	13996	13959	13922	13891	13860	13829	13798	13766	13735
147.5	14496	14460	14425	14389	14361	14333	14304	14276	14248	14220
150.0	14930	14897	14865	14832	14807	14781	14756	14730	14705	14679
152.5	15318	15288	15258	15228	15205	15182	15159	15136	15112	15089
155.0	15672	15644	15617	15589	15568	15547	15526	15505	15485	15464
157.5	15982	15958	15933	15909	15889	15869	15850	15830	15810	15790
160.0	16258	16237	16215	16194	16177	16160	16143	16126	16109	16092
162.5	16490	16473	16455	16438	16423	16408	16392	16377	16362	16347
165.0	16682	16668	16655	16641	16626	16612	16597	16582	16568	16553
167.5	16836	16825	16815	16804	16790	16776	16762	16748	16733	16719
170.0	16943	16934	16925	16916	16903	16890	16877	16864	16851	16838
172.5	17021	17013	17005	16997	16986	16974	16963	16952	16940	16929
175.0	17055	17048	17040	17033	17023	17013	17002	16992	16982	16972
177.5	17060	17053	17045	17038	17029	17020	17011	17002	16992	16983
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	384	359	335	359	384	408	432	457	481	505
95.0	845	806	768	806	845	883	921	960	998	1036
97.5	1389	1342	1296	1342	1389	1435	1481	1528	1574	1620
100.0	1993	1940	1886	1940	1993	2047	2101	2154	2208	2262
102.5	2644	2585	2526	2585	2644	2702	2761	2820	2879	2937
105.0	3313	3250	3187	3250	3313	3377	3440	3503	3566	3630
107.5	4004	3939	3873	3939	4004	4070	4135	4201	4266	4332
110.0	4725	4663	4600	4663	4725	4788	4851	4913	4976	5039
112.5	5448	5387	5327	5387	5448	5508	5569	5629	5690	5750
115.0	6141	6080	6018	6080	6141	6203	6264	6326	6387	6449
117.5	6830	6769	6709	6769	6830	6890	6951	7011	7072	7132
120.0	7513	7454	7395	7454	7513	7571	7630	7689	7748	7806
122.5	8190	8133	8077	8133	8190	8246	8303	8359	8416	8472
125.0	8860	8807	8753	8807	8860	8914	8967	9021	9074	9128
127.5	9511	9459	9408	9459	9511	9562	9614	9665	9717	9768
130.0	10183	10136	10089	10136	10183	10230	10277	10323	10370	10417
132.5	10813	10769	10725	10769	10813	10857	10901	10945	10989	11033
135.0	11452	11411	11370	11411	11452	11494	11535	11576	11617	11659
137.5	12050	12010	11970	12010	12050	12090	12130	12171	12211	12251
140.0	12623	12586	12549	12586	12623	12659	12696	12733	12770	12806
142.5	13178	13143	13109	13143	13178	13212	13247	13281	13316	13350
145.0	13704	13673	13642	13673	13704	13735	13766	13798	13829	13860
147.5	14191	14163	14135	14163	14191	14220	14248	14276	14304	14333
150.0	14654	14628	14603	14628	14654	14679	14705	14730	14756	14781
152.5	15066	15043	15020	15043	15066	15089	15112	15136	15159	15182
155.0	15443	15422	15401	15422	15443	15464	15485	15505	15526	15547
157.5	15771	15751	15731	15751	15771	15790	15810	15830	15850	15869
160.0	16075	16058	16041	16058	16075	16092	16109	16126	16143	16160
162.5	16331	16316	16301	16316	16331	16347	16362	16377	16392	16408
165.0	16538	16524	16509	16524	16538	16553	16568	16582	16597	16612
167.5	16705	16691	16677	16691	16705	16719	16733	16748	16762	16776
170.0	16825	16812	16799	16812	16825	16838	16851	16864	16877	16890
172.5	16918	16906	16895	16906	16918	16929	16940	16952	16963	16974
175.0	16961	16951	16941	16951	16961	16972	16982	16992	17002	17013
177.5	16974	16965	16956	16965	16974	16983	16992	17002	17011	17020
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	530	554	590	625	661	696	732	767	803	838
95.0	1075	1113	1149	1185	1221	1257	1294	1330	1366	1402
97.5	1667	1713	1751	1790	1828	1867	1905	1944	1982	2021
100.0	2315	2369	2408	2448	2487	2527	2566	2606	2645	2685
102.5	2996	3055	3096	3136	3177	3218	3258	3299	3340	3380
105.0	3693	3756	3800	3843	3887	3930	3974	4017	4061	4104
107.5	4397	4463	4508	4553	4598	4643	4689	4734	4779	4824
110.0	5101	5164	5215	5267	5318	5370	5421	5473	5524	5576
112.5	5811	5871	5922	5974	6025	6076	6128	6179	6230	6282
115.0	6510	6572	6626	6680	6735	6789	6843	6897	6952	7006
117.5	7193	7253	7308	7363	7417	7472	7527	7582	7636	7691
120.0	7865	7924	7980	8037	8093	8150	8206	8263	8319	8376
122.5	8529	8585	8641	8697	8753	8809	8864	8920	8976	9032
125.0	9181	9235	9290	9345	9400	9455	9509	9564	9619	9674
127.5	9820	9871	9925	9978	10032	10086	10139	10193	10247	10300
130.0	10464	10511	10564	10617	10670	10723	10777	10830	10883	10936

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CANDELA TABULATION - (Cont.)

132.5	11077	11121	11172	11223	11274	11325	11375	11426	11477	11528
135.0	11700	11741	11787	11833	11878	11924	11970	12016	12061	12107
137.5	12291	12331	12374	12418	12461	12505	12548	12592	12635	12679
140.0	12843	12880	12922	12964	13005	13047	13089	13131	13172	13214
142.5	13385	13419	13459	13499	13539	13579	13620	13660	13700	13740
145.0	13891	13922	13959	13996	14034	14071	14108	14145	14183	14220
147.5	14361	14389	14425	14460	14496	14532	14567	14603	14639	14674
150.0	14807	14832	14865	14897	14930	14963	14995	15028	15061	15093
152.5	15205	15228	15258	15288	15318	15348	15377	15407	15437	15467
155.0	15568	15589	15617	15644	15672	15700	15727	15755	15783	15810
157.5	15889	15909	15933	15958	15982	16006	16031	16055	16079	16104
160.0	16177	16194	16215	16237	16258	16280	16301	16323	16344	16366
162.5	16423	16438	16455	16473	16490	16508	16525	16543	16560	16578
165.0	16626	16641	16655	16668	16682	16695	16709	16722	16736	16749
167.5	16790	16804	16815	16825	16836	16847	16857	16868	16879	16889
170.0	16903	16916	16925	16934	16943	16952	16961	16970	16979	16988
172.5	16986	16997	17005	17013	17021	17029	17036	17044	17052	17060
175.0	17023	17033	17040	17048	17055	17062	17070	17077	17084	17092
177.5	17029	17038	17045	17053	17060	17067	17075	17082	17089	17097
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	874	904	934	964	994	1024	1054	1084	1114	1144
95.0	1438	1468	1498	1528	1558	1588	1618	1648	1678	1708
97.5	2059	2092	2124	2157	2190	2222	2255	2288	2320	2353
100.0	2724	2757	2790	2822	2855	2888	2921	2953	2986	3019
102.5	3421	3450	3479	3507	3536	3565	3594	3622	3651	3680
105.0	4148	4179	4210	4241	4272	4303	4334	4365	4396	4427
107.5	4869	4903	4937	4971	5005	5038	5072	5106	5140	5174
110.0	5627	5658	5689	5720	5751	5782	5813	5844	5875	5906
112.5	6333	6364	6395	6426	6457	6489	6520	6551	6582	6613
115.0	7060	7088	7116	7145	7173	7201	7229	7258	7286	7314
117.5	7746	7775	7805	7834	7864	7893	7923	7952	7982	8011
120.0	8432	8459	8486	8513	8540	8568	8595	8622	8649	8676
122.5	9088	9117	9146	9174	9203	9232	9261	9289	9318	9347
125.0	9729	9759	9790	9820	9851	9881	9912	9942	9973	10003
127.5	10354	10386	10417	10449	10480	10512	10543	10575	10606	10638
130.0	10989	11016	11042	11069	11095	11122	11148	11175	11201	11228
132.5	11579	11604	11630	11655	11680	11706	11731	11756	11782	11807
135.0	12153	12177	12202	12226	12250	12275	12299	12323	12348	12372
137.5	12722	12743	12765	12786	12808	12829	12851	12872	12894	12915
140.0	13256	13278	13300	13322	13344	13366	13388	13410	13432	13454
142.5	13780	13799	13818	13837	13856	13876	13895	13914	13933	13952
145.0	14257	14277	14297	14316	14336	14356	14376	14395	14415	14435
147.5	14710	14730	14750	14769	14789	14809	14829	14848	14868	14888
150.0	15126	15144	15162	15180	15198	15217	15235	15253	15271	15289
152.5	15497	15515	15532	15550	15567	15585	15602	15620	15637	15655
155.0	15838	15853	15867	15882	15897	15911	15926	15941	15955	15970
157.5	16128	16141	16154	16167	16180	16193	16206	16219	16232	16245
160.0	16387	16398	16409	16419	16430	16441	16452	16462	16473	16484
162.5	16595	16604	16613	16622	16631	16641	16650	16659	16668	16677
165.0	16763	16771	16779	16787	16795	16802	16810	16818	16826	16834
167.5	16900	16906	16912	16919	16925	16931	16937	16944	16950	16956
170.0	16997	17002	17006	17011	17015	17020	17024	17029	17033	17038
172.5	17068	17071	17075	17078	17082	17085	17089	17092	17096	17099
175.0	17099	17102	17105	17107	17110	17113	17116	17118	17121	17124
177.5	17104	17106	17108	17111	17113	17115	17117	17120	17122	17124
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

Vert. Horizontal Angles
Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	1160	1176	1191	1207	1223	1239	1254	1270	1286	1270
95.0	1721	1734	1747	1760	1773	1786	1799	1812	1825	1812
97.5	2367	2380	2394	2407	2421	2434	2448	2461	2475	2461
100.0	3031	3043	3055	3067	3078	3090	3102	3114	3126	3114
102.5	3695	3710	3726	3741	3756	3771	3787	3802	3817	3802
105.0	4441	4454	4468	4481	4495	4508	4522	4535	4549	4535
107.5	5185	5197	5208	5219	5231	5242	5253	5265	5276	5265
110.0	5917	5928	5938	5949	5960	5971	5981	5992	6003	5992
112.5	6624	6635	6647	6658	6669	6680	6692	6703	6714	6703
115.0	7325	7337	7348	7359	7371	7382	7393	7405	7416	7405
117.5	8020	8029	8038	8047	8056	8065	8074	8083	8092	8083
120.0	8688	8701	8713	8726	8738	8751	8763	8776	8788	8776
122.5	9357	9366	9376	9386	9395	9405	9415	9424	9434	9424
125.0	10013	10022	10032	10041	10051	10060	10070	10079	10089	10079
127.5	10645	10653	10660	10667	10675	10682	10689	10697	10704	10697
130.0	11235	11242	11248	11255	11262	11269	11275	11282	11289	11282
132.5	11812	11817	11822	11827	11833	11838	11843	11848	11853	11848
135.0	12375	12379	12382	12385	12389	12392	12395	12399	12402	12399
137.5	12917	12919	12920	12922	12924	12926	12927	12929	12931	12929
140.0	13453	13452	13451	13450	13448	13447	13446	13445	13444	13445
142.5	13951	13950	13949	13948	13946	13945	13944	13943	13942	13943
145.0	14434	14434	14433	14433	14432	14432	14431	14431	14430	14431
147.5	14888	14888	14888	14888	14888	14888	14888	14888	14888	14888
150.0	15288	15288	15287	15287	15286	15286	15285	15285	15284	15285
152.5	15653	15652	15650	15648	15647	15645	15643	15642	15640	15642
155.0	15968	15967	15965	15963	15962	15960	15958	15957	15955	15957
157.5	16243	16241	16240	16238	16236	16234	16233	16231	16229	16231
160.0	16482	16480	16479	16477	16475	16473	16472	16470	16468	16470
162.5	16675	16673	16672	16670	16668	16666	16665	16663	16661	16663
165.0	16832	16830	16827	16825	16823	16821	16818	16816	16814	16816

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CANDELA TABULATION - (Cont.)

167.5	16953	16950	16948	16945	16942	16939	16937	16934	16931	16934
170.0	17035	17032	17029	17026	17024	17021	17018	17015	17012	17015
172.5	17096	17092	17089	17085	17082	17078	17075	17071	17068	17071
175.0	17121	17117	17114	17111	17107	17104	17101	17097	17094	17097
177.5	17120	17116	17112	17108	17104	17100	17096	17092	17088	17092
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	1254	1239	1223	1207	1191	1176	1160	1144	1114	1084
95.0	1799	1786	1773	1760	1747	1734	1721	1708	1678	1648
97.5	2448	2434	2421	2407	2394	2380	2367	2353	2320	2288
100.0	3102	3090	3078	3067	3055	3043	3031	3019	2986	2953
102.5	3787	3771	3756	3741	3726	3710	3695	3680	3651	3622
105.0	4522	4508	4495	4481	4468	4454	4441	4427	4396	4365
107.5	5253	5242	5231	5219	5208	5197	5185	5174	5140	5106
110.0	5981	5971	5960	5949	5938	5928	5917	5906	5875	5844
112.5	6692	6680	6669	6658	6647	6635	6624	6613	6582	6551

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CANDELA TABULATION - (Cont.)

115.0	7393	7382	7371	7359	7348	7337	7325	7314	7286	7258
117.5	8074	8065	8056	8047	8038	8029	8020	8011	7982	7952
120.0	8763	8751	8738	8726	8713	8701	8688	8676	8649	8622
122.5	9415	9405	9395	9386	9376	9366	9357	9347	9318	9289
125.0	10070	10060	10051	10041	10032	10022	10013	10003	9973	9942
127.5	10689	10682	10675	10667	10660	10653	10645	10638	10606	10575
130.0	11275	11269	11262	11255	11248	11242	11235	11228	11201	11175
132.5	11843	11838	11833	11827	11822	11817	11812	11807	11782	11756
135.0	12395	12392	12389	12385	12382	12379	12375	12372	12348	12323
137.5	12927	12926	12924	12922	12920	12919	12917	12915	12894	12872
140.0	13446	13447	13448	13450	13451	13452	13453	13454	13432	13410
142.5	13944	13945	13946	13948	13949	13950	13951	13952	13933	13914
145.0	14431	14432	14432	14433	14433	14434	14434	14435	14415	14395
147.5	14888	14888	14888	14888	14888	14888	14888	14888	14868	14848
150.0	15285	15286	15286	15287	15287	15288	15288	15289	15271	15253
152.5	15643	15645	15647	15648	15650	15652	15653	15655	15637	15620
155.0	15958	15960	15962	15963	15965	15967	15968	15970	15955	15941
157.5	16233	16234	16236	16238	16240	16241	16243	16245	16232	16219
160.0	16472	16473	16475	16477	16479	16480	16482	16484	16473	16462
162.5	16665	16666	16668	16670	16672	16673	16675	16677	16668	16659
165.0	16818	16821	16823	16825	16827	16830	16832	16834	16826	16818
167.5	16937	16939	16942	16945	16948	16950	16953	16956	16950	16944
170.0	17018	17021	17024	17026	17029	17032	17035	17038	17033	17029
172.5	17075	17078	17082	17085	17089	17092	17096	17099	17096	17092
175.0	17101	17104	17107	17111	17114	17117	17121	17124	17121	17118
177.5	17096	17100	17104	17108	17112	17116	17120	17124	17122	17120
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	1054	1024	994	964	934	904	874	838	803	767
95.0	1618	1588	1558	1528	1498	1468	1438	1402	1366	1330
97.5	2255	2222	2190	2157	2124	2092	2059	2021	1982	1944
100.0	2921	2888	2855	2822	2790	2757	2724	2685	2645	2606
102.5	3594	3565	3536	3507	3479	3450	3421	3380	3340	3299
105.0	4334	4303	4272	4241	4210	4179	4148	4104	4061	4017
107.5	5072	5038	5005	4971	4937	4903	4869	4824	4779	4734
110.0	5813	5782	5751	5720	5689	5658	5627	5576	5524	5473
112.5	6520	6489	6457	6426	6395	6364	6333	6282	6230	6179
115.0	7229	7201	7173	7145	7116	7088	7060	7006	6952	6897
117.5	7923	7893	7864	7834	7805	7775	7746	7691	7636	7582
120.0	8595	8568	8540	8513	8486	8459	8432	8376	8319	8263
122.5	9261	9232	9203	9174	9146	9117	9088	9032	8976	8920
125.0	9912	9881	9851	9820	9790	9759	9729	9674	9619	9564
127.5	10543	10512	10480	10449	10417	10386	10354	10300	10247	10193
130.0	11148	11122	11095	11069	11042	11016	10989	10936	10883	10830
132.5	11731	11706	11680	11655	11630	11604	11579	11528	11477	11426
135.0	12299	12275	12250	12226	12202	12177	12153	12107	12061	12016
137.5	12851	12829	12808	12786	12765	12743	12722	12679	12635	12592
140.0	13388	13366	13344	13322	13300	13278	13256	13214	13172	13131
142.5	13895	13876	13856	13837	13818	13799	13780	13740	13700	13660
145.0	14376	14356	14336	14316	14297	14277	14257	14220	14183	14145
147.5	14829	14809	14789	14769	14750	14730	14710	14674	14639	14603
150.0	15235	15217	15198	15180	15162	15144	15126	15093	15061	15028
152.5	15602	15585	15567	15550	15532	15515	15497	15467	15437	15407
155.0	15926	15911	15897	15882	15867	15853	15838	15810	15783	15755
157.5	16206	16193	16180	16167	16154	16141	16128	16104	16079	16055
160.0	16452	16441	16430	16419	16409	16398	16387	16366	16344	16323
162.5	16650	16641	16631	16622	16613	16604	16595	16578	16560	16543
165.0	16810	16802	16795	16787	16779	16771	16763	16749	16736	16722
167.5	16937	16931	16925	16919	16912	16906	16900	16889	16879	16868
170.0	17024	17020	17015	17011	17006	17002	16997	16988	16979	16970
172.5	17089	17085	17082	17078	17075	17071	17068	17060	17052	17044
175.0	17116	17113	17110	17107	17105	17102	17099	17092	17084	17077
177.5	17117	17115	17113	17111	17108	17106	17104	17097	17089	17082
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

Vert. 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	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0

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10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	732	696	661	625	590	554	530	505	481	457
95.0	1294	1257	1221	1185	1149	1113	1075	1036	998	960
97.5	1905	1867	1828	1790	1751	1713	1667	1620	1574	1528
100.0	2566	2527	2487	2448	2408	2369	2315	2262	2208	2154
102.5	3258	3218	3177	3136	3096	3055	2996	2937	2879	2820
105.0	3974	3930	3887	3843	3800	3756	3693	3630	3566	3503
107.5	4689	4643	4598	4553	4508	4463	4397	4332	4266	4201
110.0	5421	5370	5318	5267	5215	5164	5101	5039	4976	4913
112.5	6128	6076	6025	5974	5922	5871	5811	5750	5690	5629
115.0	6843	6789	6735	6680	6626	6572	6510	6449	6387	6326
117.5	7527	7472	7417	7363	7308	7253	7193	7132	7072	7011
120.0	8206	8150	8093	8037	7980	7924	7865	7806	7748	7689
122.5	8864	8809	8753	8697	8641	8585	8529	8472	8416	8359
125.0	9509	9455	9400	9345	9290	9235	9181	9128	9074	9021
127.5	10139	10086	10032	9978	9925	9871	9820	9768	9717	9665
130.0	10777	10723	10670	10617	10564	10511	10464	10417	10370	10323
132.5	11375	11325	11274	11223	11172	11121	11077	11033	10989	10945
135.0	11970	11924	11878	11833	11787	11741	11700	11659	11617	11576
137.5	12548	12505	12461	12418	12374	12331	12291	12251	12211	12171
140.0	13089	13047	13005	12964	12922	12880	12843	12806	12770	12733
142.5	13620	13579	13539	13499	13459	13419	13385	13350	13316	13281
145.0	14108	14071	14034	13996	13959	13922	13891	13860	13829	13798
147.5	14567	14532	14496	14460	14425	14389	14361	14333	14304	14276

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDSE-55L-DA-W-50-ID.IES

CANDELA TABULATION - (Cont.)

150.0	14995	14963	14930	14897	14865	14832	14807	14781	14756	14730
152.5	15377	15348	15318	15288	15258	15228	15205	15182	15159	15136
155.0	15727	15700	15672	15644	15617	15589	15568	15547	15526	15505
157.5	16031	16006	15982	15958	15933	15909	15889	15869	15850	15830
160.0	16301	16280	16258	16237	16215	16194	16177	16160	16143	16126
162.5	16525	16508	16490	16473	16455	16438	16423	16408	16392	16377
165.0	16709	16695	16682	16668	16655	16641	16626	16612	16597	16582
167.5	16857	16847	16836	16825	16815	16804	16790	16776	16762	16748
170.0	16961	16952	16943	16934	16925	16916	16903	16890	16877	16864
172.5	17036	17029	17021	17013	17005	16997	16986	16974	16963	16952
175.0	17070	17062	17055	17048	17040	17033	17023	17013	17002	16992
177.5	17075	17067	17060	17053	17045	17038	17029	17020	17011	17002
180.0	17038	17038	17038	17038	17038	17038	17038	17038	17038	17038

Vert. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	0	0	0	0	0
2.5	0	0	0	0	0
5.0	0	0	0	0	0
7.5	0	0	0	0	0
10.0	0	0	0	0	0
12.5	0	0	0	0	0
15.0	0	0	0	0	0
17.5	0	0	0	0	0
20.0	0	0	0	0	0
22.5	0	0	0	0	0
25.0	0	0	0	0	0
27.5	0	0	0	0	0
30.0	0	0	0	0	0
32.5	0	0	0	0	0
35.0	0	0	0	0	0
37.5	0	0	0	0	0
40.0	0	0	0	0	0
42.5	0	0	0	0	0
45.0	0	0	0	0	0
47.5	0	0	0	0	0
50.0	0	0	0	0	0
52.5	0	0	0	0	0
55.0	0	0	0	0	0
57.5	0	0	0	0	0
60.0	0	0	0	0	0
62.5	0	0	0	0	0
65.0	0	0	0	0	0
67.5	0	0	0	0	0
70.0	0	0	0	0	0
72.5	0	0	0	0	0
75.0	0	0	0	0	0
77.5	0	0	0	0	0
80.0	0	0	0	0	0
82.5	0	0	0	0	0
85.0	0	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0
92.5	432	408	384	359	335
95.0	921	883	845	806	768

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

97.5	1481	1435	1389	1342	1296
100.0	2101	2047	1993	1940	1886
102.5	2761	2702	2644	2585	2526
105.0	3440	3377	3313	3250	3187
107.5	4135	4070	4004	3939	3873
110.0	4851	4788	4725	4663	4600
112.5	5569	5508	5448	5387	5327
115.0	6264	6203	6141	6080	6018
117.5	6951	6890	6830	6769	6709
120.0	7630	7571	7513	7454	7395
122.5	8303	8246	8190	8133	8077
125.0	8967	8914	8860	8807	8753
127.5	9614	9562	9511	9459	9408
130.0	10277	10230	10183	10136	10089
132.5	10901	10857	10813	10769	10725
135.0	11535	11494	11452	11411	11370
137.5	12130	12090	12050	12010	11970
140.0	12696	12659	12623	12586	12549
142.5	13247	13212	13178	13143	13109
145.0	13766	13735	13704	13673	13642
147.5	14248	14220	14191	14163	14135
150.0	14705	14679	14654	14628	14603
152.5	15112	15089	15066	15043	15020
155.0	15485	15464	15443	15422	15401
157.5	15810	15790	15771	15751	15731
160.0	16109	16092	16075	16058	16041
162.5	16362	16347	16331	16316	16301
165.0	16568	16553	16538	16524	16509
167.5	16733	16719	16705	16691	16677
170.0	16851	16838	16825	16812	16799
172.5	16940	16929	16918	16906	16895
175.0	16982	16972	16961	16951	16941
177.5	16992	16983	16974	16965	16956
180.0	17038	17038	17038	17038	17038

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDSE-55L-DA-W-50-ID.IES

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	0.00	N.A.	0.00
10-90	0.00	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	0.00	N.A.	0.00
90-110	5795.62	N.A.	10.90
90-120	12631.57	N.A.	23.80
90-130	21208.41	N.A.	40.00
90-150	39353.68	N.A.	74.30
90-180	52970.37	N.A.	100.00
110-180	47174.75	N.A.	89.10
0-180	52970.37	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	0.00
90-100	1514.51
100-110	4281.11
110-120	6835.95
120-130	8576.84
130-140	9286.88
140-150	8858.39
150-160	7267.08
160-170	4723.71
170-180	1625.91

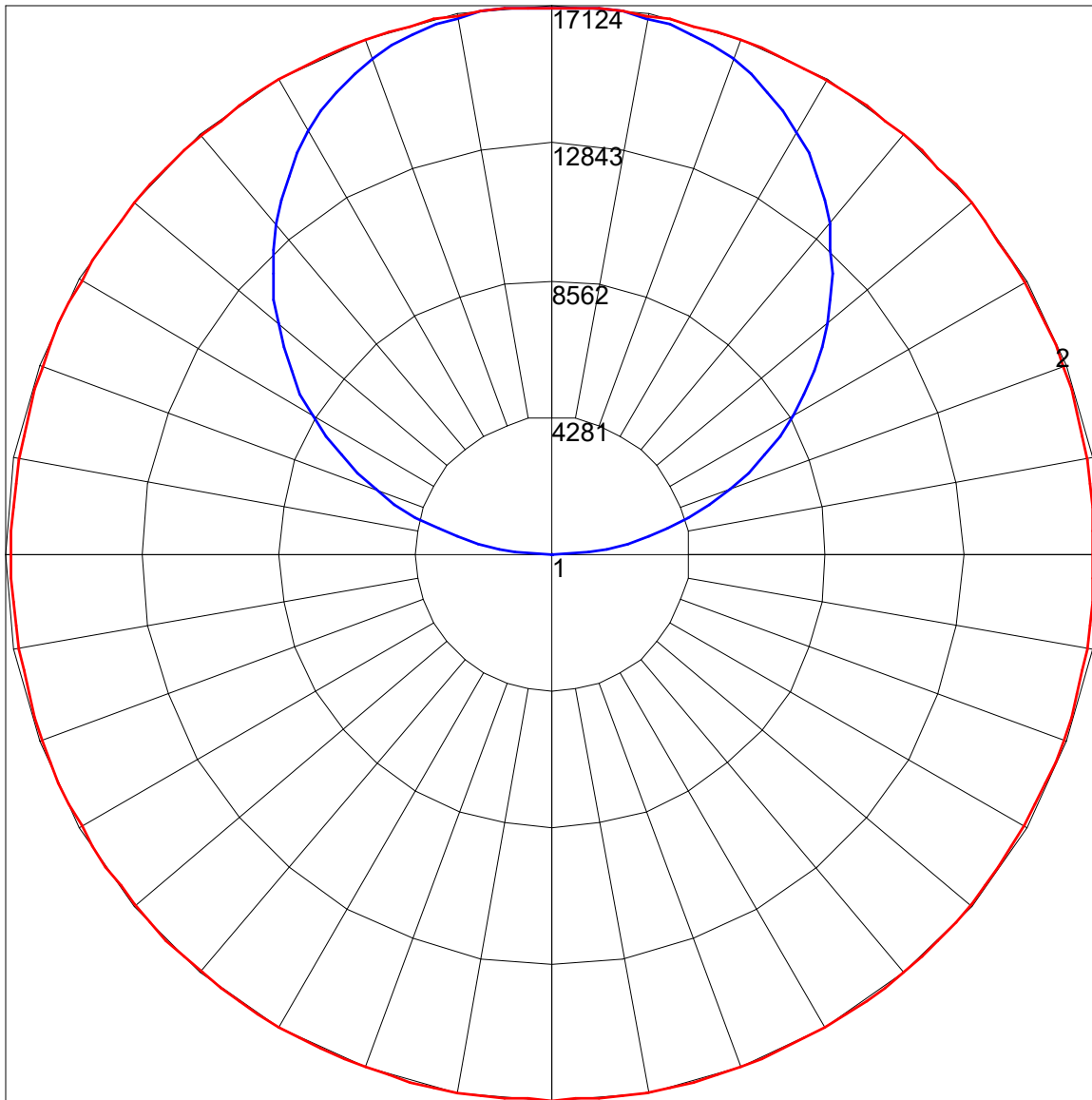
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDSE-55L-DA-W-50-ID.IES

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

POLAR GRAPH



Maximum Candela = 17124 Located At Horizontal Angle = 67.5, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)