



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZNIA-2LEDHE-55L-CA-W-50-ID.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-10924
[TESTLAB] LSI INDUSTRIES, INC
[ISSUE DATE] 01/06/21
[TEST DATE] 04/03/19
[MANUFACT] LSI INDUSTRIES, INC
[LUMCAT] ZNIA-2LEDHE-55L-CA-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	57598
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	389
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	197	221	245	269	293	318	342	366	390	414
95.0	460	500	540	580	620	659	699	739	779	819
97.5	859	909	959	1009	1059	1109	1159	1209	1259	1309
100.0	1430	1474	1518	1561	1605	1649	1693	1736	1780	1824
102.5	2198	2220	2243	2265	2288	2310	2333	2355	2378	2400
105.0	3102	3110	3118	3126	3134	3141	3149	3157	3165	3173
107.5	4098	4101	4104	4106	4109	4112	4115	4117	4120	4123
110.0	5154	5156	5157	5159	5161	5162	5164	5166	5167	5169
112.5	6240	6246	6251	6257	6262	6268	6273	6279	6284	6290
115.0	7311	7319	7328	7336	7345	7353	7362	7370	7379	7387
117.5	8337	8349	8362	8374	8386	8399	8411	8423	8436	8448
120.0	9332	9342	9352	9362	9372	9383	9393	9403	9413	9423
122.5	10262	10269	10275	10282	10289	10295	10302	10309	10315	10322
125.0	11090	11106	11123	11139	11155	11172	11188	11204	11221	11237
127.5	11873	11889	11905	11920	11936	11952	11968	11983	11999	12015
130.0	12591	12607	12623	12640	12656	12672	12688	12705	12721	12737
132.5	13283	13298	13313	13329	13344	13359	13374	13390	13405	13420

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CANDELA TABULATION - (Cont.)

135.0	13915	13930	13945	13960	13975	13991	14006	14021	14036	14051
137.5	14481	14499	14517	14535	14553	14570	14588	14606	14624	14642
140.0	15011	15030	15048	15067	15085	15104	15122	15141	15159	15178
142.5	15501	15520	15538	15557	15575	15594	15612	15631	15649	15668
145.0	15946	15964	15982	16000	16018	16036	16054	16072	16090	16108
147.5	16335	16354	16373	16392	16411	16431	16450	16469	16488	16507
150.0	16683	16701	16719	16737	16755	16773	16791	16809	16827	16845
152.5	16977	16995	17013	17031	17049	17066	17084	17102	17120	17138
155.0	17229	17246	17263	17280	17297	17313	17330	17347	17364	17381
157.5	17436	17452	17468	17483	17499	17515	17531	17546	17562	17578
160.0	17608	17623	17637	17652	17666	17681	17695	17710	17724	17739
162.5	17745	17759	17773	17787	17801	17815	17829	17843	17857	17871
165.0	17851	17865	17879	17893	17907	17921	17935	17949	17963	17977
167.5	17931	17945	17959	17973	17987	18002	18016	18030	18044	18058
170.0	17992	18005	18018	18031	18044	18056	18069	18082	18095	18108
172.5	18033	18045	18057	18068	18080	18092	18104	18115	18127	18139
175.0	18053	18063	18073	18083	18093	18104	18114	18124	18134	18144
177.5	18038	18047	18057	18066	18076	18085	18095	18104	18114	18123
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	428	442	456	470	485	499	513	527	541	543
95.0	836	853	869	886	903	920	936	953	970	979
97.5	1330	1351	1371	1392	1413	1434	1454	1475	1496	1514
100.0	1867	1909	1952	1995	2037	2080	2123	2165	2208	2205
102.5	2501	2602	2703	2804	2905	3006	3107	3208	3309	3230
105.0	3290	3408	3525	3642	3760	3877	3994	4112	4229	4168
107.5	4182	4242	4301	4361	4420	4480	4539	4599	4658	4725
110.0	5146	5123	5100	5077	5054	5031	5008	4985	4962	5126
112.5	6207	6124	6041	5958	5875	5792	5709	5626	5543	5686
115.0	7304	7221	7138	7055	6971	6888	6805	6722	6639	6635
117.5	8404	8360	8317	8273	8229	8185	8142	8098	8054	7919
120.0	9414	9405	9396	9387	9378	9369	9360	9351	9342	9195
122.5	10332	10341	10351	10360	10370	10379	10389	10398	10408	10326
125.0	11243	11248	11254	11259	11265	11270	11276	11281	11287	11277
127.5	12019	12023	12027	12031	12034	12038	12042	12046	12050	12078
130.0	12740	12744	12747	12751	12754	12758	12761	12765	12768	12798
132.5	13425	13430	13435	13440	13445	13450	13455	13460	13465	13482
135.0	14056	14061	14066	14071	14077	14082	14087	14092	14097	14108
137.5	14647	14652	14657	14662	14668	14673	14678	14683	14688	14691
140.0	15187	15196	15205	15214	15223	15232	15241	15250	15259	15254
142.5	15679	15689	15700	15711	15721	15732	15743	15753	15764	15760
145.0	16119	16130	16142	16153	16164	16175	16187	16198	16209	16207
147.5	16518	16529	16541	16552	16563	16574	16586	16597	16608	16607
150.0	16857	16869	16880	16892	16904	16916	16927	16939	16951	16951
152.5	17151	17165	17178	17192	17205	17219	17232	17246	17259	17257
155.0	17396	17411	17426	17441	17457	17472	17487	17502	17517	17515
157.5	17594	17609	17625	17641	17656	17672	17688	17703	17719	17718
160.0	17755	17772	17788	17804	17821	17837	17853	17870	17886	17886
162.5	17886	17901	17916	17931	17947	17962	17977	17992	18007	18009
165.0	17989	18002	18014	18026	18039	18051	18063	18076	18088	18091
167.5	18068	18078	18088	18098	18109	18119	18129	18139	18149	18153
170.0	18117	18126	18135	18144	18153	18162	18171	18180	18189	18192
172.5	18147	18155	18162	18170	18178	18186	18193	18201	18209	18212
175.0	18152	18161	18169	18177	18186	18194	18202	18211	18219	18221
177.5	18131	18140	18148	18157	18165	18174	18182	18191	18199	18201
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

Vert. Angles **Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	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	545	548	550	552	554	557	559	561	564	567
95.0	988	997	1006	1015	1024	1033	1042	1051	1050	1050
97.5	1533	1551	1570	1588	1607	1625	1644	1662	1673	1683
100.0	2202	2200	2197	2194	2191	2189	2186	2183	2197	2211
102.5	3152	3073	2995	2916	2838	2759	2681	2602	2605	2609
105.0	4107	4045	3984	3923	3862	3800	3739	3678	3632	3586
107.5	4792	4859	4926	4992	5059	5126	5193	5260	5203	5145
110.0	5290	5454	5618	5781	5945	6109	6273	6437	6423	6409
112.5	5829	5972	6115	6259	6402	6545	6688	6831	6895	6959
115.0	6631	6627	6623	6620	6616	6612	6608	6604	6702	6800
117.5	7784	7650	7515	7380	7245	7111	6976	6841	6870	6898
120.0	9048	8901	8754	8606	8459	8312	8165	8018	7961	7904
122.5	10243	10161	10078	9996	9913	9831	9748	9666	9585	9504
125.0	11268	11258	11249	11239	11230	11220	11211	11201	11145	11090
127.5	12106	12134	12162	12191	12219	12247	12275	12303	12290	12276
130.0	12828	12857	12887	12917	12947	12976	13006	13036	13044	13053
132.5	13500	13517	13535	13552	13570	13587	13605	13622	13628	13633
135.0	14119	14131	14142	14153	14164	14176	14187	14198	14200	14201
137.5	14694	14696	14699	14702	14705	14707	14710	14713	14710	14706
140.0	15250	15245	15241	15236	15232	15227	15223	15218	15208	15199
142.5	15756	15752	15748	15745	15741	15737	15733	15729	15713	15697
145.0	16205	16204	16202	16200	16198	16197	16195	16193	16178	16163
147.5	16607	16606	16606	16605	16605	16604	16604	16603	16589	16576
150.0	16951	16951	16951	16951	16951	16951	16951	16951	16938	16925
152.5	17256	17254	17252	17251	17249	17247	17246	17244	17233	17222
155.0	17514	17512	17510	17509	17507	17505	17504	17502	17491	17480
157.5	17718	17717	17717	17716	17716	17715	17715	17714	17703	17693
160.0	17886	17886	17886	17886	17886	17886	17886	17886	17876	17867
162.5	18010	18012	18014	18015	18017	18019	18020	18022	18013	18003
165.0	18095	18098	18101	18105	18108	18111	18115	18118	18110	18102
167.5	18157	18161	18165	18168	18172	18176	18180	18184	18176	18167

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CANDELA TABULATION - (Cont.)

170.0	18195	18197	18200	18203	18206	18208	18211	18214	18206	18197
172.5	18215	18218	18221	18223	18226	18229	18232	18235	18227	18219
175.0	18224	18226	18228	18231	18233	18235	18238	18240	18232	18224
177.5	18202	18204	18206	18207	18209	18211	18212	18214	18206	18198
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	569	572	575	578	580	583	586	583	580	578
95.0	1049	1049	1048	1048	1047	1047	1046	1047	1047	1048
97.5	1694	1705	1715	1726	1737	1747	1758	1747	1737	1726
100.0	2225	2239	2253	2267	2281	2295	2309	2295	2281	2267
102.5	2612	2615	2619	2622	2625	2629	2632	2629	2625	2622
105.0	3540	3494	3448	3402	3356	3310	3264	3310	3356	3402
107.5	5088	5031	4973	4916	4859	4801	4744	4801	4859	4916
110.0	6395	6381	6367	6353	6339	6325	6311	6325	6339	6353
112.5	7023	7087	7151	7215	7279	7343	7407	7343	7279	7215
115.0	6899	6997	7095	7193	7292	7390	7488	7390	7292	7193

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CANDELA TABULATION - (Cont.)

117.5	6927	6956	6984	7013	7042	7070	7099	7070	7042	7013
120.0	7846	7789	7732	7675	7617	7560	7503	7560	7617	7675
122.5	9423	9342	9262	9181	9100	9019	8938	9019	9100	9181
125.0	11034	10979	10923	10868	10812	10757	10701	10757	10812	10868
127.5	12263	12249	12236	12222	12209	12195	12182	12195	12209	12222
130.0	13061	13069	13078	13086	13094	13103	13111	13103	13094	13086
132.5	13639	13644	13650	13655	13661	13666	13672	13666	13661	13655
135.0	14203	14205	14206	14208	14210	14211	14213	14211	14210	14208
137.5	14703	14700	14696	14693	14690	14686	14683	14686	14690	14693
140.0	15189	15180	15170	15161	15151	15142	15132	15142	15151	15161
142.5	15682	15666	15650	15634	15619	15603	15587	15603	15619	15634
145.0	16148	16133	16117	16102	16087	16072	16057	16072	16087	16102
147.5	16562	16549	16535	16522	16508	16495	16481	16495	16508	16522
150.0	16912	16899	16887	16874	16861	16848	16835	16848	16861	16874
152.5	17210	17199	17188	17177	17165	17154	17143	17154	17165	17177
155.0	17468	17457	17446	17435	17423	17412	17401	17412	17423	17435
157.5	17682	17671	17661	17650	17639	17629	17618	17629	17639	17650
160.0	17857	17848	17838	17829	17819	17810	17800	17810	17819	17829
162.5	17994	17984	17975	17965	17956	17946	17937	17946	17956	17965
165.0	18095	18087	18079	18071	18064	18056	18048	18056	18064	18071
167.5	18159	18150	18142	18133	18125	18116	18108	18116	18125	18133
170.0	18189	18181	18172	18164	18156	18147	18139	18147	18156	18164
172.5	18211	18203	18196	18188	18180	18172	18164	18172	18180	18188
175.0	18216	18208	18201	18193	18185	18177	18169	18177	18185	18193
177.5	18191	18183	18175	18167	18160	18152	18144	18152	18160	18167
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

Vert. Horizontal Angles
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	575	572	569	567	564	561	559	557	554	552
95.0	1048	1049	1049	1050	1050	1051	1042	1033	1024	1015
97.5	1715	1705	1694	1683	1673	1662	1644	1625	1607	1588
100.0	2253	2239	2225	2211	2197	2183	2186	2189	2191	2194
102.5	2619	2615	2612	2609	2605	2602	2681	2759	2838	2916
105.0	3448	3494	3540	3586	3632	3678	3739	3800	3862	3923
107.5	4973	5031	5088	5145	5203	5260	5193	5126	5059	4992
110.0	6367	6381	6395	6409	6423	6437	6273	6109	5945	5781
112.5	7151	7087	7023	6959	6895	6831	6688	6545	6402	6259
115.0	7095	6997	6899	6800	6702	6604	6608	6612	6616	6620
117.5	6984	6956	6927	6898	6870	6841	6976	7111	7245	7380
120.0	7732	7789	7846	7904	7961	8018	8165	8312	8459	8606
122.5	9262	9342	9423	9504	9585	9666	9748	9831	9913	9996
125.0	10923	10979	11034	11090	11145	11201	11211	11220	11230	11239
127.5	12236	12249	12263	12276	12290	12303	12275	12247	12219	12191
130.0	13078	13069	13061	13053	13044	13036	13006	12976	12947	12917
132.5	13650	13644	13639	13633	13628	13622	13605	13587	13570	13552
135.0	14206	14205	14203	14201	14200	14198	14187	14176	14164	14153
137.5	14696	14700	14703	14706	14710	14713	14710	14707	14705	14702
140.0	15170	15180	15189	15199	15208	15218	15223	15227	15232	15236
142.5	15650	15666	15682	15697	15713	15729	15733	15737	15741	15745
145.0	16117	16133	16148	16163	16178	16193	16195	16197	16198	16200
147.5	16535	16549	16562	16576	16589	16603	16604	16604	16605	16605
150.0	16887	16899	16912	16925	16938	16951	16951	16951	16951	16951
152.5	17188	17199	17210	17222	17233	17244	17246	17247	17249	17251
155.0	17446	17457	17468	17480	17491	17502	17504	17505	17507	17509
157.5	17661	17671	17682	17693	17703	17714	17715	17715	17716	17716
160.0	17838	17848	17857	17867	17876	17886	17886	17886	17886	17886
162.5	17975	17984	17994	18003	18013	18022	18020	18019	18017	18015
165.0	18079	18087	18095	18102	18110	18118	18115	18111	18108	18105
167.5	18142	18150	18159	18167	18176	18184	18180	18176	18172	18168
170.0	18172	18181	18189	18197	18206	18214	18211	18208	18206	18203
172.5	18196	18203	18211	18219	18227	18235	18232	18229	18226	18223
175.0	18201	18208	18216	18224	18232	18240	18238	18235	18233	18231
177.5	18175	18183	18191	18198	18206	18214	18212	18211	18209	18207
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	550	548	545	543	541	527	513	499	485	470
95.0	1006	997	988	979	970	953	936	920	903	886
97.5	1570	1551	1533	1514	1496	1475	1454	1434	1413	1392
100.0	2197	2200	2202	2205	2208	2165	2123	2080	2037	1995
102.5	2995	3073	3152	3230	3309	3208	3107	3006	2905	2804
105.0	3984	4045	4107	4168	4229	4112	3994	3877	3760	3642
107.5	4926	4859	4792	4725	4658	4599	4539	4480	4420	4361
110.0	5618	5454	5290	5126	4962	4985	5008	5031	5054	5077
112.5	6115	5972	5829	5686	5543	5626	5709	5792	5875	5958
115.0	6623	6627	6631	6635	6639	6722	6805	6888	6971	7055
117.5	7515	7650	7784	7919	8054	8098	8142	8185	8229	8273
120.0	8754	8901	9048	9195	9342	9351	9360	9369	9378	9387
122.5	10078	10161	10243	10326	10408	10398	10389	10379	10370	10360
125.0	11249	11258	11268	11277	11287	11281	11276	11270	11265	11259
127.5	12162	12134	12106	12078	12050	12046	12042	12038	12034	12031
130.0	12887	12857	12828	12798	12768	12765	12761	12758	12754	12751
132.5	13535	13517	13500	13482	13465	13460	13455	13450	13445	13440
135.0	14142	14131	14119	14108	14097	14092	14087	14082	14077	14071
137.5	14699	14696	14694	14691	14688	14683	14678	14673	14668	14662
140.0	15241	15245	15250	15254	15259	15250	15241	15232	15223	15214
142.5	15748	15752	15756	15760	15764	15753	15743	15732	15721	15711
145.0	16202	16204	16205	16207	16209	16198	16187	16175	16164	16153
147.5	16606	16606	16607	16607	16608	16597	16586	16574	16563	16552
150.0	16951	16951	16951	16951	16951	16939	16927	16916	16904	16892

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152.5	17252	17254	17256	17257	17259	17246	17232	17219	17205	17192
155.0	17510	17512	17514	17515	17517	17502	17487	17472	17457	17441
157.5	17717	17717	17718	17718	17719	17703	17688	17672	17656	17641
160.0	17886	17886	17886	17886	17886	17870	17853	17837	17821	17804
162.5	18014	18012	18010	18009	18007	17992	17977	17962	17947	17931
165.0	18101	18098	18095	18091	18088	18076	18063	18051	18039	18026
167.5	18165	18161	18157	18153	18149	18139	18129	18119	18109	18098
170.0	18200	18197	18195	18192	18189	18180	18171	18162	18153	18144
172.5	18221	18218	18215	18212	18209	18201	18193	18186	18178	18170
175.0	18228	18226	18224	18221	18219	18211	18202	18194	18186	18177
177.5	18206	18204	18202	18201	18199	18191	18182	18174	18165	18157
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	456	442	428	414	390	366	342	318	293	269
95.0	869	853	836	819	779	739	699	659	620	580
97.5	1371	1351	1330	1309	1259	1209	1159	1109	1059	1009

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100.0	1952	1909	1867	1824	1780	1736	1693	1649	1605	1561
102.5	2703	2602	2501	2400	2378	2355	2333	2310	2288	2265
105.0	3525	3408	3290	3173	3165	3157	3149	3141	3134	3126
107.5	4301	4242	4182	4123	4120	4117	4115	4112	4109	4106
110.0	5100	5123	5146	5169	5167	5166	5164	5162	5161	5159
112.5	6041	6124	6207	6290	6284	6279	6273	6268	6262	6257
115.0	7138	7221	7304	7387	7379	7370	7362	7353	7345	7336
117.5	8317	8360	8404	8448	8436	8423	8411	8399	8386	8374
120.0	9396	9405	9414	9423	9413	9403	9393	9383	9372	9362
122.5	10351	10341	10332	10322	10315	10309	10302	10295	10289	10282
125.0	11254	11248	11243	11237	11221	11204	11188	11172	11155	11139
127.5	12027	12023	12019	12015	11999	11983	11968	11952	11936	11920
130.0	12747	12744	12740	12737	12721	12705	12688	12672	12656	12640
132.5	13435	13430	13425	13420	13405	13390	13374	13359	13344	13329
135.0	14066	14061	14056	14051	14036	14021	14006	13991	13975	13960
137.5	14657	14652	14647	14642	14624	14606	14588	14570	14553	14535
140.0	15205	15196	15187	15178	15159	15141	15122	15104	15085	15067
142.5	15700	15689	15679	15668	15649	15631	15612	15594	15575	15557
145.0	16142	16130	16119	16108	16090	16072	16054	16036	16018	16000
147.5	16541	16529	16518	16507	16488	16469	16450	16431	16411	16392
150.0	16880	16869	16857	16845	16827	16809	16791	16773	16755	16737
152.5	17178	17165	17151	17138	17120	17102	17084	17066	17049	17031
155.0	17426	17411	17396	17381	17364	17347	17330	17313	17297	17280
157.5	17625	17609	17594	17578	17562	17546	17531	17515	17499	17483
160.0	17788	17772	17755	17739	17724	17710	17695	17681	17666	17652
162.5	17916	17901	17886	17871	17857	17843	17829	17815	17801	17787
165.0	18014	18002	17989	17977	17963	17949	17935	17921	17907	17893
167.5	18088	18078	18068	18058	18044	18030	18016	18002	17987	17973
170.0	18135	18126	18117	18108	18095	18082	18069	18056	18044	18031
172.5	18162	18155	18147	18139	18127	18115	18104	18092	18080	18068
175.0	18169	18161	18152	18144	18134	18124	18114	18104	18093	18083
177.5	18148	18140	18131	18123	18114	18104	18095	18085	18076	18066
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	245	221	197	221	245	269	293	318	342	366
95.0	540	500	460	500	540	580	620	659	699	739
97.5	959	909	859	909	959	1009	1059	1109	1159	1209
100.0	1518	1474	1430	1474	1518	1561	1605	1649	1693	1736
102.5	2243	2220	2198	2220	2243	2265	2288	2310	2333	2355
105.0	3118	3110	3102	3110	3118	3126	3134	3141	3149	3157
107.5	4104	4101	4098	4101	4104	4106	4109	4112	4115	4117
110.0	5157	5156	5154	5156	5157	5159	5161	5162	5164	5166
112.5	6251	6246	6240	6246	6251	6257	6262	6268	6273	6279
115.0	7328	7319	7311	7319	7328	7336	7345	7353	7362	7370
117.5	8362	8349	8337	8349	8362	8374	8386	8399	8411	8423
120.0	9352	9342	9332	9342	9352	9362	9372	9383	9393	9403
122.5	10275	10269	10262	10269	10275	10282	10289	10295	10302	10309
125.0	11123	11106	11090	11106	11123	11139	11155	11172	11188	11204
127.5	11905	11889	11873	11889	11905	11920	11936	11952	11968	11983
130.0	12623	12607	12591	12607	12623	12640	12656	12672	12688	12705
132.5	13313	13298	13283	13298	13313	13329	13344	13359	13374	13390
135.0	13945	13930	13915	13930	13945	13960	13975	13991	14006	14021
137.5	14517	14499	14481	14499	14517	14535	14553	14570	14588	14606
140.0	15048	15030	15011	15030	15048	15067	15085	15104	15122	15141
142.5	15538	15520	15501	15520	15538	15557	15575	15594	15612	15631
145.0	15982	15964	15946	15964	15982	16000	16018	16036	16054	16072
147.5	16373	16354	16335	16354	16373	16392	16411	16431	16450	16469
150.0	16719	16701	16683	16701	16719	16737	16755	16773	16791	16809
152.5	17013	16995	16977	16995	17013	17031	17049	17066	17084	17102
155.0	17263	17246	17229	17246	17263	17280	17297	17313	17330	17347
157.5	17468	17452	17436	17452	17468	17483	17499	17515	17531	17546
160.0	17637	17623	17608	17623	17637	17652	17666	17681	17695	17710
162.5	17773	17759	17745	17759	17773	17787	17801	17815	17829	17843
165.0	17879	17865	17851	17865	17879	17893	17907	17921	17935	17949
167.5	17959	17945	17931	17945	17959	17973	17987	18002	18016	18030
170.0	18018	18005	17992	18005	18018	18031	18044	18056	18069	18082
172.5	18057	18045	18033	18045	18057	18068	18080	18092	18104	18115
175.0	18073	18063	18053	18063	18073	18083	18093	18104	18114	18124
177.5	18057	18047	18038	18047	18057	18066	18076	18085	18095	18104
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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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	390	414	428	442	456	470	485	499	513	527
95.0	779	819	836	853	869	886	903	920	936	953
97.5	1259	1309	1330	1351	1371	1392	1413	1434	1454	1475
100.0	1780	1824	1867	1909	1952	1995	2037	2080	2123	2165
102.5	2378	2400	2501	2602	2703	2804	2905	3006	3107	3208
105.0	3165	3173	3290	3408	3525	3642	3760	3877	3994	4112
107.5	4120	4123	4182	4242	4301	4361	4420	4480	4539	4599
110.0	5167	5169	5146	5123	5100	5077	5054	5031	5008	4985
112.5	6284	6290	6207	6124	6041	5958	5875	5792	5709	5626
115.0	7379	7387	7304	7221	7138	7055	6971	6888	6805	6722
117.5	8436	8448	8404	8360	8317	8273	8229	8185	8142	8098
120.0	9413	9423	9414	9405	9396	9387	9378	9369	9360	9351
122.5	10315	10322	10332	10341	10351	10360	10370	10379	10389	10398
125.0	11221	11237	11243	11248	11254	11259	11265	11270	11276	11281
127.5	11999	12015	12019	12023	12027	12031	12034	12038	12042	12046
130.0	12721	12737	12740	12744	12747	12751	12754	12758	12761	12765

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CANDELA TABULATION - (Cont.)

132.5	13405	13420	13425	13430	13435	13440	13445	13450	13455	13460
135.0	14036	14051	14056	14061	14066	14071	14077	14082	14087	14092
137.5	14624	14642	14647	14652	14657	14662	14668	14673	14678	14683
140.0	15159	15178	15187	15196	15205	15214	15223	15232	15241	15250
142.5	15649	15668	15679	15689	15700	15711	15721	15732	15743	15753
145.0	16090	16108	16119	16130	16142	16153	16164	16175	16187	16198
147.5	16488	16507	16518	16529	16541	16552	16563	16574	16586	16597
150.0	16827	16845	16857	16869	16880	16892	16904	16916	16927	16939
152.5	17120	17138	17151	17165	17178	17192	17205	17219	17232	17246
155.0	17364	17381	17396	17411	17426	17441	17457	17472	17487	17502
157.5	17562	17578	17594	17609	17625	17641	17656	17672	17688	17703
160.0	17724	17739	17755	17772	17788	17804	17821	17837	17853	17870
162.5	17857	17871	17886	17901	17916	17931	17947	17962	17977	17992
165.0	17963	17977	17989	18002	18014	18026	18039	18051	18063	18076
167.5	18044	18058	18068	18078	18088	18098	18109	18119	18129	18139
170.0	18095	18108	18117	18126	18135	18144	18153	18162	18171	18180
172.5	18127	18139	18147	18155	18162	18170	18178	18186	18193	18201
175.0	18134	18144	18152	18161	18169	18177	18186	18194	18202	18211
177.5	18114	18123	18131	18140	18148	18157	18165	18174	18182	18191
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	541	543	545	548	550	552	554	557	559	561
95.0	970	979	988	997	1006	1015	1024	1033	1042	1051
97.5	1496	1514	1533	1551	1570	1588	1607	1625	1644	1662
100.0	2208	2205	2202	2200	2197	2194	2191	2189	2186	2183
102.5	3309	3230	3152	3073	2995	2916	2838	2759	2681	2602
105.0	4229	4168	4107	4045	3984	3923	3862	3800	3739	3678
107.5	4658	4725	4792	4859	4926	4992	5059	5126	5193	5260
110.0	4962	5126	5290	5454	5618	5781	5945	6109	6273	6437
112.5	5543	5686	5829	5972	6115	6259	6402	6545	6688	6831
115.0	6639	6635	6631	6627	6623	6620	6616	6612	6608	6604
117.5	8054	7919	7784	7650	7515	7380	7245	7111	6976	6841
120.0	9342	9195	9048	8901	8754	8606	8459	8312	8165	8018
122.5	10408	10326	10243	10161	10078	9996	9913	9831	9748	9666
125.0	11287	11277	11268	11258	11249	11239	11230	11220	11211	11201
127.5	12050	12078	12106	12134	12162	12191	12219	12247	12275	12303
130.0	12768	12798	12828	12857	12887	12917	12947	12976	13006	13036
132.5	13465	13482	13500	13517	13535	13552	13570	13587	13605	13622
135.0	14097	14108	14119	14131	14142	14153	14164	14176	14187	14198
137.5	14688	14691	14694	14696	14699	14702	14705	14707	14710	14713
140.0	15259	15254	15250	15245	15241	15236	15232	15227	15223	15218
142.5	15764	15760	15756	15752	15748	15745	15741	15737	15733	15729
145.0	16209	16207	16205	16204	16202	16200	16198	16197	16195	16193
147.5	16608	16607	16607	16606	16606	16605	16605	16604	16604	16603
150.0	16951	16951	16951	16951	16951	16951	16951	16951	16951	16951
152.5	17259	17257	17256	17254	17252	17251	17249	17247	17246	17244
155.0	17517	17515	17514	17512	17510	17509	17507	17505	17504	17502
157.5	17719	17718	17718	17717	17717	17716	17716	17715	17715	17714
160.0	17886	17886	17886	17886	17886	17886	17886	17886	17886	17886
162.5	18007	18009	18010	18012	18014	18015	18017	18019	18020	18022
165.0	18088	18091	18095	18098	18101	18105	18108	18111	18115	18118
167.5	18149	18153	18157	18161	18165	18168	18172	18176	18180	18184
170.0	18189	18192	18195	18197	18200	18203	18206	18208	18211	18214
172.5	18209	18212	18215	18218	18221	18223	18226	18229	18232	18235
175.0	18219	18221	18224	18226	18228	18231	18233	18235	18238	18240
177.5	18199	18201	18202	18204	18206	18207	18209	18211	18212	18214
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	564	567	569	572	575	578	580	583	586	583
95.0	1050	1050	1049	1049	1048	1048	1047	1047	1046	1047
97.5	1673	1683	1694	1705	1715	1726	1737	1747	1758	1747
100.0	2197	2211	2225	2239	2253	2267	2281	2295	2309	2295
102.5	2605	2609	2612	2615	2619	2622	2625	2629	2632	2629
105.0	3632	3586	3540	3494	3448	3402	3356	3310	3264	3310
107.5	5203	5145	5088	5031	4973	4916	4859	4801	4744	4801
110.0	6423	6409	6395	6381	6367	6353	6339	6325	6311	6325
112.5	6895	6959	7023	7087	7151	7215	7279	7343	7407	7343
115.0	6702	6800	6899	6997	7095	7193	7292	7390	7488	7390
117.5	6870	6898	6927	6956	6984	7013	7042	7070	7099	7070
120.0	7961	7904	7846	7789	7732	7675	7617	7560	7503	7560
122.5	9585	9504	9423	9342	9262	9181	9100	9019	8938	9019
125.0	11145	11090	11034	10979	10923	10868	10812	10757	10701	10757
127.5	12290	12276	12263	12249	12236	12222	12209	12195	12182	12195
130.0	13044	13053	13061	13069	13078	13086	13094	13103	13111	13103
132.5	13628	13633	13639	13644	13650	13655	13661	13666	13672	13666
135.0	14200	14201	14203	14205	14206	14208	14210	14211	14213	14211
137.5	14710	14706	14703	14700	14696	14693	14690	14686	14683	14686
140.0	15208	15199	15189	15180	15170	15161	15151	15142	15132	15142
142.5	15713	15697	15682	15666	15650	15634	15619	15603	15587	15603
145.0	16178	16163	16148	16133	16117	16102	16087	16072	16057	16072
147.5	16589	16576	16562	16549	16535	16522	16508	16495	16481	16495
150.0	16938	16925	16912	16899	16887	16874	16861	16848	16835	16848
152.5	17233	17222	17210	17199	17188	17177	17165	17154	17143	17154
155.0	17491	17480	17468	17457	17446	17435	17423	17412	17401	17412
157.5	17703	17693	17682	17671	17661	17650	17639	17629	17618	17629
160.0	17876	17867	17857	17848	17838	17829	17819	17810	17800	17810
162.5	18013	18003	17994	17984	17975	17965	17956	17946	17937	17946
165.0	18110	18102	18095	18087	18079	18071	18064	18056	18048	18056

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CANDELA TABULATION - (Cont.)

167.5	18176	18167	18159	18150	18142	18133	18125	18116	18108	18116
170.0	18206	18197	18189	18181	18172	18164	18156	18147	18139	18147
172.5	18227	18219	18211	18203	18196	18188	18180	18172	18164	18172
175.0	18232	18224	18216	18208	18201	18193	18185	18177	18169	18177
177.5	18206	18198	18191	18183	18175	18167	18160	18152	18144	18152
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	580	578	575	572	569	567	564	561	559	557
95.0	1047	1048	1048	1049	1049	1050	1050	1051	1042	1033
97.5	1737	1726	1715	1705	1694	1683	1673	1662	1644	1625
100.0	2281	2267	2253	2239	2225	2211	2197	2183	2186	2189
102.5	2625	2622	2619	2615	2612	2609	2605	2602	2681	2759
105.0	3356	3402	3448	3494	3540	3586	3632	3678	3739	3800
107.5	4859	4916	4973	5031	5088	5145	5203	5260	5193	5126
110.0	6339	6353	6367	6381	6395	6409	6423	6437	6273	6109
112.5	7279	7215	7151	7087	7023	6959	6895	6831	6688	6545

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CANDELA TABULATION - (Cont.)

115.0	7292	7193	7095	6997	6899	6800	6702	6604	6608	6612
117.5	7042	7013	6984	6956	6927	6898	6870	6841	6976	7111
120.0	7617	7675	7732	7789	7846	7904	7961	8018	8165	8312
122.5	9100	9181	9262	9342	9423	9504	9585	9666	9748	9831
125.0	10812	10868	10923	10979	11034	11090	11145	11201	11211	11220
127.5	12209	12222	12236	12249	12263	12276	12290	12303	12275	12247
130.0	13094	13086	13078	13069	13061	13053	13044	13036	13006	12976
132.5	13661	13655	13650	13644	13639	13633	13628	13622	13605	13587
135.0	14210	14208	14206	14205	14203	14201	14200	14198	14187	14176
137.5	14690	14693	14696	14700	14703	14706	14710	14713	14710	14707
140.0	15151	15161	15170	15180	15189	15199	15208	15218	15223	15227
142.5	15619	15634	15650	15666	15682	15697	15713	15729	15733	15737
145.0	16087	16102	16117	16133	16148	16163	16178	16193	16195	16197
147.5	16508	16522	16535	16549	16562	16576	16589	16603	16604	16604
150.0	16861	16874	16887	16899	16912	16925	16938	16951	16951	16951
152.5	17165	17177	17188	17199	17210	17222	17233	17244	17246	17247
155.0	17423	17435	17446	17457	17468	17480	17491	17502	17504	17505
157.5	17639	17650	17661	17671	17682	17693	17703	17714	17715	17715
160.0	17819	17829	17838	17848	17857	17867	17876	17886	17886	17886
162.5	17956	17965	17975	17984	17994	18003	18013	18022	18020	18019
165.0	18064	18071	18079	18087	18095	18102	18110	18118	18115	18111
167.5	18125	18133	18142	18150	18159	18167	18176	18184	18180	18176
170.0	18156	18164	18172	18181	18189	18197	18206	18214	18211	18208
172.5	18180	18188	18196	18203	18211	18219	18227	18235	18232	18229
175.0	18185	18193	18201	18208	18216	18224	18232	18240	18238	18235
177.5	18160	18167	18175	18183	18191	18198	18206	18214	18212	18211
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	554	552	550	548	545	543	541	527	513	499
95.0	1024	1015	1006	997	988	979	970	953	936	920
97.5	1607	1588	1570	1551	1533	1514	1496	1475	1454	1434
100.0	2191	2194	2197	2200	2202	2205	2208	2165	2123	2080
102.5	2838	2916	2995	3073	3152	3230	3309	3208	3107	3006
105.0	3862	3923	3984	4045	4107	4168	4229	4112	3994	3877
107.5	5059	4992	4926	4859	4792	4725	4658	4599	4539	4480
110.0	5945	5781	5618	5454	5290	5126	4962	4985	5008	5031
112.5	6402	6259	6115	5972	5829	5686	5543	5626	5709	5792
115.0	6616	6620	6623	6627	6631	6635	6639	6722	6805	6888
117.5	7245	7380	7515	7650	7784	7919	8054	8098	8142	8185
120.0	8459	8606	8754	8901	9048	9195	9342	9351	9360	9369
122.5	9913	9996	10078	10161	10243	10326	10408	10398	10389	10379
125.0	11230	11239	11249	11258	11268	11277	11287	11281	11276	11270
127.5	12219	12191	12162	12134	12106	12078	12050	12046	12042	12038
130.0	12947	12917	12887	12857	12828	12798	12768	12765	12761	12758
132.5	13570	13552	13535	13517	13500	13482	13465	13460	13455	13450
135.0	14164	14153	14142	14131	14119	14108	14097	14092	14087	14082
137.5	14705	14702	14699	14696	14694	14691	14688	14683	14678	14673
140.0	15232	15236	15241	15245	15250	15254	15259	15250	15241	15232
142.5	15741	15745	15748	15752	15756	15760	15764	15753	15743	15732
145.0	16198	16200	16202	16204	16205	16207	16209	16198	16187	16175
147.5	16605	16605	16606	16606	16607	16607	16608	16597	16586	16574
150.0	16951	16951	16951	16951	16951	16951	16951	16939	16927	16916
152.5	17249	17251	17252	17254	17256	17257	17259	17246	17232	17219
155.0	17507	17509	17510	17512	17514	17515	17517	17502	17487	17472
157.5	17716	17716	17717	17717	17718	17718	17719	17703	17688	17672
160.0	17886	17886	17886	17886	17886	17886	17886	17870	17853	17837
162.5	18017	18015	18014	18012	18010	18009	18007	17992	17977	17962
165.0	18108	18105	18101	18098	18095	18091	18088	18076	18063	18051
167.5	18172	18168	18165	18161	18157	18153	18149	18139	18129	18119
170.0	18206	18203	18200	18197	18195	18192	18189	18180	18171	18162
172.5	18226	18223	18221	18218	18215	18212	18209	18201	18193	18186
175.0	18233	18231	18228	18226	18224	18221	18219	18211	18202	18194
177.5	18209	18207	18206	18204	18202	18201	18199	18191	18182	18174
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	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	485	470	456	442	428	414	390	366	342	318
95.0	903	886	869	853	836	819	779	739	699	659
97.5	1413	1392	1371	1351	1330	1309	1259	1209	1159	1109
100.0	2037	1995	1952	1909	1867	1824	1780	1736	1693	1649
102.5	2905	2804	2703	2602	2501	2400	2378	2355	2333	2310
105.0	3760	3642	3525	3408	3290	3173	3165	3157	3149	3141
107.5	4420	4361	4301	4242	4182	4123	4120	4117	4115	4112
110.0	5054	5077	5100	5123	5146	5169	5167	5166	5164	5162
112.5	5875	5958	6041	6124	6207	6290	6284	6279	6273	6268
115.0	6971	7055	7138	7221	7304	7387	7379	7370	7362	7353
117.5	8229	8273	8317	8360	8404	8448	8436	8423	8411	8399
120.0	9378	9387	9396	9405	9414	9423	9413	9403	9393	9383
122.5	10370	10360	10351	10341	10332	10322	10315	10309	10302	10295
125.0	11265	11259	11254	11248	11243	11237	11221	11204	11188	11172
127.5	12034	12031	12027	12023	12019	12015	11999	11983	11968	11952
130.0	12754	12751	12747	12744	12740	12737	12721	12705	12688	12672
132.5	13445	13440	13435	13430	13425	13420	13405	13390	13374	13359
135.0	14077	14071	14066	14061	14056	14051	14036	14021	14006	13991
137.5	14668	14662	14657	14652	14647	14642	14624	14606	14588	14570
140.0	15223	15214	15205	15196	15187	15178	15159	15141	15122	15104
142.5	15721	15711	15700	15689	15679	15668	15649	15631	15612	15594
145.0	16164	16153	16142	16130	16119	16108	16090	16072	16054	16036
147.5	16563	16552	16541	16529	16518	16507	16488	16469	16450	16431

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDHE-55L-CA-W-50-ID.IES

CANDELA TABULATION - (Cont.)

150.0	16904	16892	16880	16869	16857	16845	16827	16809	16791	16773
152.5	17205	17192	17178	17165	17151	17138	17120	17102	17084	17066
155.0	17457	17441	17426	17411	17396	17381	17364	17347	17330	17313
157.5	17656	17641	17625	17609	17594	17578	17562	17546	17531	17515
160.0	17821	17804	17788	17772	17755	17739	17724	17710	17695	17681
162.5	17947	17931	17916	17901	17886	17871	17857	17843	17829	17815
165.0	18039	18026	18014	18002	17989	17977	17963	17949	17935	17921
167.5	18109	18098	18088	18078	18068	18058	18044	18030	18016	18002
170.0	18153	18144	18135	18126	18117	18108	18095	18082	18069	18056
172.5	18178	18170	18162	18155	18147	18139	18127	18115	18104	18092
175.0	18186	18177	18169	18161	18152	18144	18134	18124	18114	18104
177.5	18165	18157	18148	18140	18131	18123	18114	18104	18095	18085
180.0	18123	18123	18123	18123	18123	18123	18123	18123	18123	18123

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	293	269	245	221	197
95.0	620	580	540	500	460

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

97.5	1059	1009	959	909	859
100.0	1605	1561	1518	1474	1430
102.5	2288	2265	2243	2220	2198
105.0	3134	3126	3118	3110	3102
107.5	4109	4106	4104	4101	4098
110.0	5161	5159	5157	5156	5154
112.5	6262	6257	6251	6246	6240
115.0	7345	7336	7328	7319	7311
117.5	8386	8374	8362	8349	8337
120.0	9372	9362	9352	9342	9332
122.5	10289	10282	10275	10269	10262
125.0	11155	11139	11123	11106	11090
127.5	11936	11920	11905	11889	11873
130.0	12656	12640	12623	12607	12591
132.5	13344	13329	13313	13298	13283
135.0	13975	13960	13945	13930	13915
137.5	14553	14535	14517	14499	14481
140.0	15085	15067	15048	15030	15011
142.5	15575	15557	15538	15520	15501
145.0	16018	16000	15982	15964	15946
147.5	16411	16392	16373	16354	16335
150.0	16755	16737	16719	16701	16683
152.5	17049	17031	17013	16995	16977
155.0	17297	17280	17263	17246	17229
157.5	17499	17483	17468	17452	17436
160.0	17666	17652	17637	17623	17608
162.5	17801	17787	17773	17759	17745
165.0	17907	17893	17879	17865	17851
167.5	17987	17973	17959	17945	17931
170.0	18044	18031	18018	18005	17992
172.5	18080	18068	18057	18045	18033
175.0	18093	18083	18073	18063	18053
177.5	18076	18066	18057	18047	18038
180.0	18123	18123	18123	18123	18123

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDHE-55L-CA-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	4905.15	N.A.	8.50
90-120	11916.58	N.A.	20.70
90-130	21767.5	N.A.	37.80
90-150	42725.02	N.A.	74.20
90-180	57598.41	N.A.	100.00
110-180	52693.26	N.A.	91.50
0-180	57598.41	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	1041.96
100-110	3863.19
110-120	7011.43
120-130	9850.91
130-140	10869.87
140-150	10087.65
150-160	8038.88
160-170	5100.71
170-180	1733.81

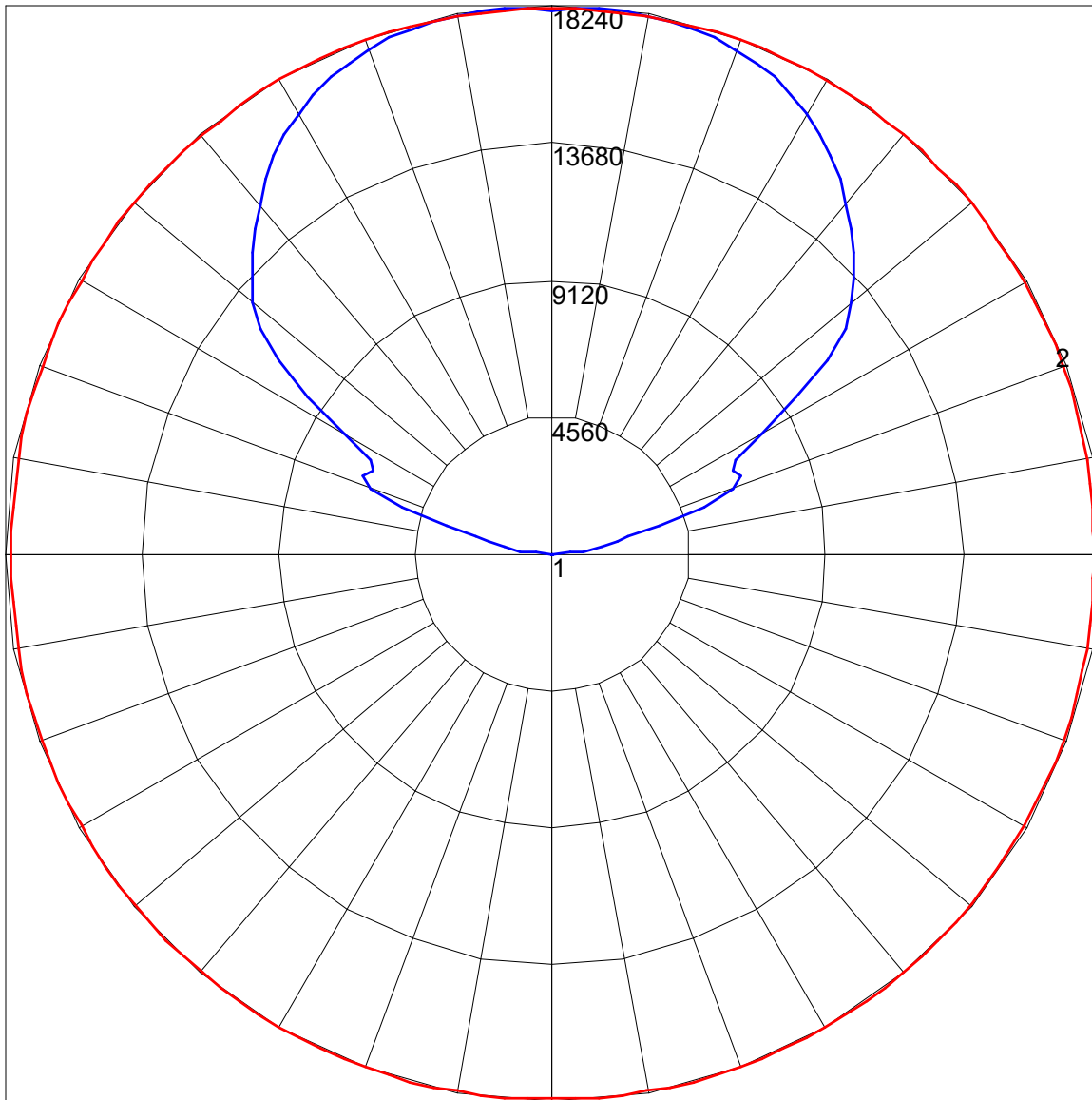
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDHE-55L-CA-W-50-ID.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	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 = 18240 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.)