



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AWL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 2017060503
[TESTLAB]
[TESTDATE] 6/5/2017
[ISSUEDATE] 6/17/2020
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] AWL
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.75 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	811	1730	9517
55	800	800	12566
65	814	633	24609
75	813	591	5171
85	877	658	439

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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	436	436	436	436	436	436	436	436	436	436
2.5	390	390	390	391	391	391	392	392	393	394
5.0	346	346	346	346	347	347	348	349	350	352
7.5	304	304	304	305	305	306	308	309	311	312
10.0	263	263	264	264	265	267	268	270	272	275
12.5	235	235	235	235	236	237	240	240	242	244
15.0	206	206	206	207	208	209	211	213	215	217
17.5	177	177	178	178	179	181	183	185	187	190
20.0	149	149	149	150	151	153	155	157	160	163
22.5	135	135	135	135	136	137	138	139	140	141
25.0	121	121	122	122	123	123	124	125	127	128
27.5	108	108	108	108	109	110	111	112	114	116
30.0	94	94	94	95	96	97	98	99	101	103
32.5	83	83	83	84	84	85	86	87	89	91
35.0	72	72	72	73	73	74	76	77	78	80
37.5	61	61	61	62	62	63	64	66	67	69
40.0	50	50	50	51	51	52	53	55	56	58
42.5	39	39	39	40	41	41	42	44	45	47
45.0	30	30	30	30	31	31	31	33	34	36
47.5	27	27	27	27	27	26	26	26	26	27
50.0	26	26	26	26	26	25	25	25	25	25
52.5	25	25	25	25	24	24	24	23	23	23
55.0	24	24	24	24	23	23	22	22	22	22
57.5	23	23	23	23	22	21	21	21	20	20
60.0	23	22	22	21	21	20	20	19	19	19
62.5	20	20	20	20	19	18	18	18	17	17
65.0	18	18	18	18	17	16	16	16	15	15
67.5	16	16	16	16	15	14	14	14	13	13
70.0	14	14	14	14	13	13	12	12	11	11
72.5	12	12	12	12	12	11	10	10	10	9
75.0	11	11	11	11	10	9	9	9	8	8
77.5	9	9	9	9	8	8	8	7	7	7
80.0	7	7	7	7	7	6	6	6	6	5
82.5	6	6	6	6	5	5	5	5	4	4
85.0	4	4	4	4	4	3	3	3	3	3
87.5	2	2	2	2	2	2	2	2	2	2
90.0	1	1	1	1	1	1	1	1	1	1
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	394	395	396	397	399	399	401	402	403	405
5.0	353	355	356	358	362	363	365	368	370	373
7.5	314	317	319	322	324	327	331	334	338	342
10.0	277	280	283	287	290	294	298	303	307	312
12.5	246	249	251	254	257	261	266	271	277	283
15.0	220	222	226	229	232	236	240	245	249	254
17.5	193	196	200	203	208	212	217	222	227	232
20.0	166	170	174	178	183	188	193	199	204	210
22.5	143	145	148	153	158	164	169	176	182	189
25.0	130	132	134	136	139	141	146	153	160	167
27.5	117	120	122	124	127	130	133	136	139	146
30.0	105	107	109	112	115	118	121	125	128	132
32.5	92	95	97	100	103	107	110	114	117	121
35.0	82	84	86	89	92	95	99	102	106	111
37.5	71	73	76	78	81	84	87	91	95	100
40.0	60	62	65	68	71	74	77	81	84	89
42.5	49	52	54	57	60	64	67	71	74	78
45.0	38	41	44	47	50	53	56	60	64	68
47.5	29	31	33	36	39	42	46	49	54	58
50.0	25	26	26	28	29	32	35	39	43	48
52.5	24	24	24	24	24	24	26	28	33	37
55.0	22	22	22	22	22	22	22	22	24	26
57.5	20	20	20	20	20	20	20	20	21	21
60.0	19	18	18	18	18	18	18	18	18	19
62.5	17	17	16	16	16	16	16	16	16	16
65.0	15	15	14	14	14	13	13	14	14	14
67.5	13	13	13	12	12	12	12	12	12	12
70.0	11	11	11	11	11	11	11	11	10	10
72.5	9	9	9	9	10	10	10	10	9	9
75.0	8	8	8	8	8	9	9	9	8	8
77.5	6	6	7	7	7	7	7	7	7	7
80.0	5	5	5	6	6	6	6	6	6	5

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CANDELA TABULATION - (Cont.)

82.5	4	4	4	4	5	5	5	5	4	4
85.0	3	3	3	3	3	3	3	3	3	3
87.5	2	2	2	2	2	2	2	2	2	2
90.0	1	1	1	1	1	1	1	1	1	1
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	406	408	409	411	413	414	416	418	420	422
5.0	376	379	382	385	389	392	396	400	403	407
7.5	346	350	355	360	364	370	375	380	386	392
10.0	317	322	328	334	340	347	353	360	368	375
12.5	289	295	302	309	316	323	332	340	349	358
15.0	260	267	275	284	292	301	310	319	329	340
17.5	238	244	250	258	268	278	288	299	309	321
20.0	217	223	230	237	245	255	266	278	290	303
22.5	196	203	211	219	227	236	245	258	272	285
25.0	175	183	192	201	209	219	228	238	252	267
27.5	155	163	173	182	192	202	213	223	235	250

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CANDELA TABULATION - (Cont.)

30.0	136	144	154	164	175	186	197	208	220	233
32.5	126	130	135	146	157	169	181	193	206	219
35.0	115	120	125	131	140	153	165	179	192	206
37.5	105	110	115	121	128	137	150	164	178	193
40.0	94	99	105	111	118	126	135	150	165	180
42.5	83	88	94	101	108	116	124	136	151	168
45.0	73	77	82	89	97	105	114	124	137	154
47.5	63	67	72	77	85	93	102	113	124	141
50.0	52	57	62	67	72	80	89	100	112	127
52.5	42	47	52	57	62	66	73	84	98	113
55.0	31	36	41	46	51	54	57	66	81	97
57.5	23	26	31	35	39	43	46	50	61	77
60.0	19	20	22	25	29	33	37	40	42	55
62.5	17	17	18	18	21	25	28	30	31	32
65.0	15	15	15	16	16	17	20	22	23	24
67.5	12	13	13	14	14	14	15	16	18	19
70.0	10	11	11	11	12	12	12	13	14	15
72.5	9	9	9	9	9	10	10	11	11	12
75.0	8	8	8	8	8	8	8	9	9	10
77.5	6	6	6	6	6	6	7	7	8	8
80.0	5	5	5	5	5	5	5	6	6	6
82.5	4	4	4	4	4	4	4	4	4	5
85.0	3	3	3	3	3	3	3	3	3	3
87.5	2	2	2	2	2	2	2	2	2	2
90.0	1	1	1	1	1	1	1	1	1	1
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0
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	436	436	436	436	436	436	436	436	436	436
2.5	424	426	428	430	431	433	435	438	441	444
5.0	411	415	419	423	427	431	435	440	446	451
7.5	397	403	409	415	421	427	433	442	450	458
10.0	383	391	399	407	415	423	431	442	453	464
12.5	367	377	387	397	408	418	428	442	456	470
15.0	351	363	375	387	399	412	424	441	458	475
17.5	334	347	361	375	389	404	418	438	458	478
20.0	316	331	346	362	379	395	412	436	459	482
22.5	299	314	331	349	369	386	405	432	459	485
25.0	282	298	316	335	356	377	398	428	459	489
27.5	266	283	301	321	344	367	391	425	459	493
30.0	250	268	287	308	333	358	384	422	461	502
32.5	234	253	273	295	321	348	376	420	464	515
35.0	220	239	260	283	310	339	369	420	470	532
37.5	208	225	247	271	299	331	364	425	480	556
40.0	196	212	235	260	289	325	359	428	498	591
42.5	184	201	223	249	280	317	355	438	526	641
45.0	172	190	209	238	270	309	352	455	565	705
47.5	159	178	198	226	259	302	350	480	619	783
50.0	146	166	186	212	246	294	348	517	693	873
52.5	131	152	173	197	234	288	355	566	770	968
55.0	114	135	158	184	222	284	377	630	851	1032
57.5	94	115	141	169	210	285	417	701	921	1066
60.0	74	95	122	151	196	292	466	756	969	1077
62.5	52	75	102	138	186	303	510	790	989	1068
65.0	30	52	70	119	185	318	544	791	958	1033
67.5	20	30	44	88	171	310	543	762	890	969
70.0	17	20	33	54	134	262	489	680	792	885
72.5	14	19	27	46	91	165	314	462	573	680
75.0	11	14	13	17	24	33	70	175	288	396
77.5	8	9	10	10	12	14	17	24	37	97
80.0	7	7	7	7	7	7	8	10	14	18
82.5	5	6	6	5	5	4	4	4	5	6
85.0	4	4	4	4	3	2	2	2	2	2
87.5	2	3	3	3	3	2	1	1	1	1
90.0	1	1	1	1	1	1	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	446	449	452	455	457	460	462	465	467	470
5.0	457	462	467	473	478	485	488	493	498	503
7.5	466	475	484	491	499	506	514	522	529	536
10.0	476	486	497	508	519	529	540	551	562	572
12.5	484	498	511	525	539	554	568	582	597	611
15.0	491	508	525	543	561	579	598	617	635	653
17.5	498	520	540	562	585	609	632	655	677	698
20.0	505	530	557	584	613	644	669	696	717	730
22.5	512	544	575	611	645	679	713	728	743	757
25.0	523	559	601	643	682	719	737	754	771	787
27.5	535	580	630	678	722	744	764	784	802	820
30.0	551	608	666	721	749	773	796	817	837	856
32.5	574	643	710	753	781	807	832	855	877	897
35.0	607	688	758	789	818	846	873	900	921	922
37.5	649	742	795	829	861	891	920	946	937	912
40.0	703	800	837	873	907	939	970	959	933	905
42.5	769	845	885	922	958	991	986	959	931	901
45.0	850	898	937	976	1012	1019	992	963	932	900
47.5	913	955	995	1034	1058	1033	1004	972	939	891
50.0	973	1016	1057	1096	1077	1049	1020	986	920	816
52.5	1032	1077	1119	1127	1101	1072	1040	960	839	729
55.0	1085	1132	1171	1151	1126	1097	1012	870	742	628
57.5	1123	1179	1188	1170	1148	1071	910	759	630	511
60.0	1141	1195	1189	1179	1131	961	795	640	501	380
62.5	1137	1166	1171	1172	1011	841	670	505	358	268

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CANDELA TABULATION - (Cont.)

65.0	1105	1122	1138	1041	891	721	542	379	284	235
67.5	1023	1054	1026	914	776	608	439	324	246	195
70.0	917	942	873	783	666	516	381	271	192	143
72.5	740	743	706	645	535	409	292	191	120	78
75.0	477	507	510	467	369	259	163	82	60	50
77.5	167	244	297	278	196	87	65	53	36	27
80.0	21	45	91	101	83	55	34	22	13	11
82.5	9	10	11	25	24	20	16	14	10	9
85.0	3	4	4	5	8	13	11	10	7	6
87.5	1	2	2	3	3	7	6	5	4	3
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	472	474	476	478	480	482	486	486	488	489
5.0	508	512	516	521	525	529	532	537	539	543
7.5	544	551	558	565	572	578	584	591	595	601
10.0	582	593	603	613	623	632	641	650	656	664

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CANDELA TABULATION - (Cont.)

12.5	625	639	652	664	676	688	698	709	714	720
15.0	670	686	702	714	721	729	736	743	750	756
17.5	714	725	735	744	753	762	770	778	785	792
20.0	742	754	765	776	786	796	805	814	822	829
22.5	771	785	797	809	820	831	841	850	859	867
25.0	803	817	831	844	856	868	879	879	868	858
27.5	837	852	867	882	887	873	860	848	836	825
30.0	874	891	894	877	861	846	831	817	804	791
32.5	913	893	873	854	836	819	803	788	773	759
35.0	899	876	854	833	812	793	775	758	742	718
37.5	888	862	838	814	790	768	740	706	675	648
40.0	878	851	823	797	756	711	670	634	602	574
42.5	871	841	799	740	687	639	597	559	527	498
45.0	868	797	728	667	612	563	519	481	448	420
47.5	802	722	650	587	530	480	436	399	366	338
50.0	722	637	564	498	440	391	348	311	283	266
52.5	631	544	465	401	343	294	266	242	233	226
55.0	527	438	361	294	258	233	222	211	202	195
57.5	409	320	265	234	217	203	191	181	172	164
60.0	291	244	222	204	187	172	160	149	140	132
62.5	237	212	191	172	156	142	129	119	109	101
65.0	202	176	156	139	124	110	98	87	80	76
67.5	161	138	119	103	90	80	74	69	65	61
70.0	114	95	81	74	68	62	57	53	49	46
72.5	69	65	58	52	47	43	40	36	33	30
75.0	45	41	35	29	25	23	25	25	25	24
77.5	21	16	16	16	17	19	20	21	21	20
80.0	12	13	13	13	14	15	16	17	17	16
82.5	9	10	10	10	10	11	12	13	13	12
85.0	6	7	7	7	7	8	8	8	8	8
87.5	3	3	3	3	4	4	4	4	4	4
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	491	492	493	494	495	496	497	498	498	499
5.0	546	549	551	554	556	558	560	561	562	563
7.5	606	611	615	619	622	626	628	631	633	634
10.0	670	676	682	687	692	696	699	702	705	709
12.5	724	729	733	736	739	743	745	747	748	750
15.0	761	767	771	777	780	783	786	788	790	792
17.5	799	805	811	815	820	824	827	830	832	834
20.0	836	843	849	855	860	865	868	872	874	877
22.5	875	876	870	864	859	854	850	847	844	842
25.0	849	841	833	827	821	815	811	807	804	801
27.5	815	805	797	790	783	777	772	768	764	761
30.0	781	770	761	752	745	739	733	728	724	721
32.5	747	735	725	709	695	683	673	664	658	652
35.0	694	673	654	638	624	612	601	593	586	580
37.5	623	601	582	566	552	540	529	521	514	508
40.0	550	528	509	492	478	467	457	448	442	436
42.5	474	452	433	418	404	393	384	376	369	364
45.0	395	374	357	341	329	319	310	305	301	298
47.5	315	295	284	275	268	263	261	259	258	256
50.0	249	245	240	237	233	231	229	227	226	225
52.5	219	214	209	205	202	199	197	195	194	193
55.0	188	182	177	173	170	167	165	163	162	161
57.5	157	151	146	142	138	135	133	131	130	129
60.0	125	119	115	110	107	104	101	99	98	98
62.5	94	88	84	83	81	81	80	80	80	80
65.0	73	70	69	67	66	65	65	64	64	64
67.5	58	56	54	52	51	50	49	49	49	49
70.0	43	41	39	37	36	35	34	34	33	33
72.5	28	28	27	27	27	27	27	28	28	28
75.0	24	24	23	23	23	23	23	24	24	24
77.5	20	20	19	19	19	19	20	20	20	20
80.0	16	16	16	16	16	16	16	16	16	16
82.5	12	12	12	12	12	12	12	12	12	12
85.0	8	8	8	8	8	8	8	8	8	8
87.5	4	4	4	4	4	4	4	4	4	4
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	499	499	499	499	499	499	498	498	497	497
5.0	564	564	565	565	564	564	563	562	560	559
7.5	635	636	636	636	635	634	633	631	629	626
10.0	710	709	709	709	709	709	705	703	700	696
12.5	751	752	752	752	751	750	749	747	745	744
15.0	794	795	795	795	794	793	791	789	786	783
17.5	836	837	838	837	837	835	833	831	828	824
20.0	880	880	881	881	880	877	875	872	869	866
22.5	840	840	840	840	841	843	845	848	852	857
25.0	800	799	799	800	801	803	806	810	815	820
27.5	759	759	759	760	761	764	767	772	777	784
30.0	718	718	718	719	720	724	729	734	740	748
32.5	648	646	646	647	650	655	661	670	680	693
35.0	577	574	574	575	578	582	589	597	607	620
37.5	505	502	502	502	505	509	515	524	534	546
40.0	433	429	429	429	432	436	442	450	459	471
42.5	361	358	357	358	359	363	368	375	384	395
45.0	296	294	293	293	294	296	299	303	308	319

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CANDELA TABULATION - (Cont.)

47.5	255	254	254	253	253	254	255	257	259	262
50.0	224	223	223	222	222	223	224	226	229	232
52.5	192	192	191	191	191	192	193	195	198	201
55.0	161	160	160	160	161	161	162	164	167	170
57.5	129	129	129	129	130	130	132	134	136	139
60.0	96	97	98	98	97	99	101	103	105	107
62.5	81	81	81	82	82	82	83	83	84	84
65.0	65	65	65	65	66	66	67	67	68	68
67.5	49	49	49	49	49	50	51	51	52	53
70.0	32	32	32	33	33	34	35	35	36	37
72.5	28	28	28	29	29	29	29	29	29	29
75.0	24	24	24	25	25	25	25	25	25	25
77.5	20	20	20	21	21	21	21	21	21	21
80.0	16	16	16	17	17	17	17	17	17	17
82.5	12	12	12	13	13	13	13	13	13	13
85.0	8	8	8	9	9	9	9	9	9	9
87.5	4	4	4	5	5	5	5	5	5	5
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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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	436	436	436	436	436	436	436	436	436	436
2.5	496	495	494	492	491	490	488	487	487	483
5.0	557	555	552	550	547	544	541	538	534	530
7.5	623	620	616	612	607	602	597	593	586	580
10.0	692	688	683	677	671	665	658	651	642	634
12.5	740	736	733	729	725	720	716	711	701	691
15.0	780	778	772	768	763	758	753	747	741	734
17.5	821	817	814	808	803	797	792	785	778	771
20.0	862	858	854	849	843	838	831	824	817	809
22.5	863	869	877	885	885	879	872	865	856	848
25.0	827	835	843	852	862	873	884	896	897	888
27.5	791	800	810	820	831	842	855	869	882	897
30.0	757	766	776	787	799	812	827	842	858	875
32.5	708	724	743	755	768	783	799	815	834	854
35.0	635	651	670	692	717	744	772	791	811	833
37.5	561	577	597	619	644	672	705	740	779	813
40.0	485	502	521	544	569	599	632	669	711	756
42.5	409	425	444	466	492	522	556	594	637	684
45.0	331	347	365	387	412	442	476	515	558	607
47.5	269	279	291	306	330	359	393	431	475	525
50.0	236	241	247	255	263	286	309	343	386	435
52.5	205	210	216	224	233	245	257	272	303	339
55.0	173	178	184	192	201	212	225	240	257	276
57.5	142	147	152	160	168	179	191	205	222	240
60.0	111	115	120	127	135	144	156	169	185	202
62.5	85	86	88	93	100	109	120	132	147	164
65.0	70	71	73	75	77	81	85	93	107	123
67.5	54	55	57	59	62	65	69	74	79	86
70.0	38	40	42	44	46	49	53	57	62	68
72.5	29	29	29	30	30	33	36	40	44	48
75.0	25	25	25	26	26	27	27	28	28	28
77.5	21	21	21	22	22	23	23	23	23	23
80.0	17	17	17	17	18	18	18	19	19	18
82.5	13	13	13	13	13	14	14	14	14	14
85.0	9	9	9	9	9	9	9	10	10	9
87.5	5	5	5	5	5	5	5	5	5	5
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	481	479	477	475	473	471	468	466	463	461
5.0	526	522	518	514	510	505	500	496	491	488
7.5	574	568	561	554	547	540	533	525	518	510
10.0	625	616	607	597	587	578	567	557	546	535
12.5	680	669	657	645	632	619	605	591	577	563
15.0	728	721	710	695	680	664	647	629	611	593
17.5	764	755	747	738	728	713	693	672	650	628
20.0	800	791	782	772	761	750	738	719	693	669
22.5	839	829	818	807	796	784	772	758	746	712
25.0	878	868	857	846	834	821	808	794	779	763
27.5	913	910	899	888	875	862	848	833	817	800
30.0	893	913	933	933	920	906	891	875	858	840
32.5	874	896	918	941	965	953	937	921	903	883
35.0	856	880	904	929	956	983	988	972	952	931
37.5	839	865	892	921	950	980	1010	1025	1006	984
40.0	806	851	881	913	946	979	1012	1044	1060	1037
42.5	737	795	860	908	944	979	1014	1048	1082	1094
45.0	662	723	791	866	943	982	1020	1057	1092	1125
47.5	581	644	714	793	880	975	1029	1067	1104	1138
50.0	492	556	628	707	799	899	1009	1079	1117	1151
52.5	395	458	529	613	706	809	923	1048	1132	1165
55.0	307	350	423	505	599	704	822	952	1091	1174
57.5	261	284	322	383	476	583	703	832	978	1128
60.0	223	246	272	300	354	446	567	702	849	1003
62.5	183	206	231	259	291	327	418	558	711	868
65.0	142	163	187	214	245	283	334	424	573	736
67.5	98	118	140	166	195	232	284	356	461	613
70.0	75	84	94	113	139	172	221	293	389	511
72.5	53	60	69	78	86	101	142	203	289	392
75.0	31	35	42	49	55	64	74	85	152	240
77.5	22	21	20	18	24	31	39	48	55	67

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CANDELA TABULATION - (Cont.)

80.0	17	16	16	14	12	10	10	16	28	45
82.5	13	12	12	11	9	7	7	9	14	21
85.0	9	8	8	7	6	5	5	7	11	15
87.5	5	4	4	4	3	3	3	4	6	8
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	458	456	453	451	448	445	442	440	437	435
5.0	481	475	470	465	459	454	448	443	437	433
7.5	503	495	488	479	471	463	454	446	438	432
10.0	525	515	504	493	482	471	460	449	438	429
12.5	549	535	522	508	494	480	466	452	438	427
15.0	575	558	540	523	506	489	472	455	438	425
17.5	604	582	560	541	518	498	478	457	437	421
20.0	639	610	583	557	531	508	484	460	436	418
22.5	679	646	611	579	547	519	491	463	435	415
25.0	728	689	646	605	567	532	500	467	435	412

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CANDELA TABULATION - (Cont.)

27.5	782	738	689	638	591	547	510	473	435	409
30.0	820	796	740	681	621	569	524	480	436	407
32.5	863	841	799	731	660	596	540	489	437	404
35.0	910	886	860	790	708	629	560	500	439	402
37.5	960	934	907	859	765	669	585	517	441	400
40.0	1012	986	958	928	832	721	619	531	443	400
42.5	1068	1041	1012	981	910	783	663	554	446	395
45.0	1125	1097	1066	1036	995	857	717	583	449	392
47.5	1170	1153	1121	1088	1054	937	783	622	455	389
50.0	1182	1204	1171	1137	1102	1016	860	668	465	385
52.5	1193	1218	1212	1176	1138	1086	923	723	489	384
55.0	1199	1220	1237	1202	1162	1118	977	782	528	384
57.5	1198	1214	1225	1215	1169	1124	1016	841	581	386
60.0	1158	1197	1202	1205	1160	1109	1026	865	626	396
62.5	1023	1168	1163	1153	1124	1066	1007	866	660	416
65.0	889	1021	1104	1082	1065	1011	955	843	675	429
67.5	762	879	980	1008	985	951	902	813	654	412
70.0	641	748	835	912	895	872	789	697	540	329
72.5	509	612	676	703	689	622	526	427	306	178
75.0	343	437	476	450	409	330	251	155	75	37
77.5	173	254	260	208	142	75	41	25	20	16
80.0	72	89	86	51	20	17	14	12	10	9
82.5	28	26	13	11	9	7	5	5	5	5
85.0	12	7	6	4	4	3	2	2	2	2
87.5	6	3	3	2	1	1	1	1	1	2
90.0	0	0	1	1	1	1	1	1	0	2
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	436	436	436	436	436	436	436	436	436	436
2.5	433	431	429	427	425	423	421	419	417	416
5.0	429	425	421	417	413	409	406	402	398	394
7.5	425	419	413	407	401	395	389	384	378	373
10.0	421	413	405	396	388	380	373	365	358	351
12.5	417	406	396	385	375	365	355	346	338	329
15.0	412	399	386	374	361	350	339	328	318	308
17.5	406	391	376	361	347	334	321	309	298	287
20.0	400	382	365	348	332	317	304	290	277	264
22.5	395	374	354	335	318	302	288	271	257	247
25.0	388	365	343	323	305	287	270	253	242	232
27.5	383	357	334	312	292	272	254	241	229	217
30.0	378	349	324	301	279	257	242	228	215	202
32.5	372	341	314	290	265	246	231	215	201	186
35.0	366	333	305	278	253	236	219	202	186	170
37.5	360	325	295	266	244	225	206	188	171	154
40.0	354	316	285	256	234	214	194	174	155	142
42.5	347	308	273	246	223	201	180	159	143	132
45.0	339	298	260	235	211	187	165	146	132	120
47.5	329	285	248	223	198	173	150	135	120	106
50.0	317	271	236	209	182	157	138	121	106	91
52.5	304	254	222	193	165	141	121	103	88	77
55.0	291	237	205	175	147	124	103	83	70	65
57.5	279	222	186	154	126	102	81	66	59	52
60.0	270	208	166	130	101	76	58	53	47	41
62.5	263	194	139	103	72	45	43	40	35	29
65.0	251	164	95	69	42	33	31	29	24	19
67.5	218	119	64	41	26	24	23	20	16	15
70.0	172	69	44	25	21	18	16	14	14	13
72.5	101	50	30	22	17	14	12	12	12	11
75.0	27	21	16	16	12	11	10	10	9	9
77.5	14	13	12	10	10	9	8	8	7	7
80.0	9	9	9	8	8	7	7	6	6	6
82.5	6	7	7	6	6	6	5	5	5	4
85.0	3	5	5	5	4	4	4	4	4	3
87.5	3	3	3	3	3	3	3	2	2	2
90.0	2	2	2	2	2	1	1	1	1	1
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
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	436	436	436	436	436	436	436	436	436	436
2.5	414	412	410	409	407	406	404	403	401	400
5.0	391	387	384	381	378	375	372	369	366	364
7.5	367	363	357	353	348	344	340	336	332	329
10.0	344	338	331	325	320	315	310	305	300	296
12.5	321	314	306	299	293	286	280	274	268	263
15.0	299	290	281	273	265	258	253	248	244	240
17.5	276	265	256	250	244	238	232	226	221	216
20.0	254	246	238	231	224	217	210	204	198	192
22.5	237	229	220	212	204	196	189	182	175	169
25.0	221	212	202	193	184	175	167	160	152	147
27.5	205	194	184	174	164	155	147	143	139	135
30.0	189	177	166	154	146	140	135	131	127	123
32.5	173	159	148	141	135	129	124	119	114	110
35.0	156	144	137	130	123	117	111	106	101	97
37.5	142	134	125	118	111	104	99	93	89	86
40.0	132	122	114	105	98	91	86	82	79	76
42.5	120	110	101	92	85	81	76	73	69	65
45.0	108	97	87	81	76	71	66	62	58	55
47.5	94	83	77	71	66	61	56	52	48	44
50.0	80	73	67	61	55	50	45	41	37	34
52.5	70	63	56	50	45	39	35	30	28	26
55.0	59	52	45	39	33	28	26	24	24	23
57.5	46	40	33	27	24	22	22	22	21	21
60.0	34	28	23	20	20	20	19	19	19	19

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CANDELA TABULATION - (Cont.)

62.5	22	19	18	18	17	17	17	17	16	16
65.0	17	16	16	15	15	15	14	14	14	14
67.5	15	14	14	13	13	12	12	12	12	12
70.0	12	12	11	11	11	11	11	10	11	11
72.5	10	10	9	9	9	9	9	9	9	9
75.0	8	8	8	8	8	8	8	8	8	8
77.5	7	7	6	6	7	7	7	7	7	7
80.0	5	5	5	5	5	6	6	6	5	5
82.5	4	4	4	4	4	4	4	4	4	4
85.0	3	3	3	3	3	3	3	3	3	3
87.5	2	2	2	2	2	2	2	2	2	2
90.0	1	1	1	1	1	1	1	1	1	1
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
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	436	436	436	436	436	436	436	436	436	436
2.5	400	398	397	396	395	394	393	393	392	392
5.0	363	360	358	356	354	353	351	350	349	348
7.5	326	323	320	318	316	313	312	310	308	307

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CANDELA TABULATION - (Cont.)

10.0	292	288	285	281	278	275	273	271	269	267
12.5	259	256	253	250	248	245	243	241	241	238
15.0	235	232	228	225	222	219	216	214	212	210
17.5	211	207	203	199	195	192	189	187	184	182
20.0	187	182	177	173	169	165	162	159	157	154
22.5	163	157	152	148	146	144	142	141	139	138
25.0	144	141	138	135	133	131	129	128	126	125
27.5	131	128	125	123	120	118	116	114	113	111
30.0	119	115	112	109	107	105	103	101	99	98
32.5	106	102	99	96	94	92	90	88	87	86
35.0	93	90	87	85	83	81	79	78	76	75
37.5	83	80	77	75	72	70	68	66	65	64
40.0	73	70	67	64	61	59	57	55	54	53
42.5	62	59	57	54	51	48	46	44	43	42
45.0	52	49	46	44	41	38	35	33	32	31
47.5	41	38	36	34	31	29	27	26	27	27
50.0	31	30	28	28	28	27	26	25	25	25
52.5	26	26	26	26	26	25	25	24	24	24
55.0	23	24	24	24	24	24	23	23	23	23
57.5	21	21	21	22	22	22	22	22	22	22
60.0	19	19	19	20	20	20	20	20	20	21
62.5	16	16	17	17	18	18	18	18	19	19
65.0	14	14	15	15	15	16	16	16	17	17
67.5	12	13	13	13	13	13	14	14	15	15
70.0	11	11	11	11	11	11	11	12	12	13
72.5	10	10	10	9	9	9	10	10	11	11
75.0	8	8	8	8	8	8	8	9	9	10
77.5	7	7	7	7	7	7	7	7	8	8
80.0	6	6	6	6	5	5	6	6	6	7
82.5	4	4	4	4	4	4	4	5	5	5
85.0	3	3	3	3	3	3	3	3	3	4
87.5	2	2	2	2	2	2	2	2	2	2
90.0	1	1	1	1	1	1	1	1	1	1
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles				
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	436	436	436	436	436
2.5	391	391	391	390	390
5.0	347	347	346	346	346
7.5	306	305	305	304	304
10.0	266	265	264	263	263
12.5	237	236	235	235	235
15.0	209	208	207	206	206
17.5	181	179	178	178	177
20.0	152	151	150	149	149
22.5	137	136	136	135	135
25.0	124	123	122	122	121
27.5	110	109	109	108	108
30.0	96	96	95	94	94
32.5	85	84	84	83	83
35.0	74	73	73	72	72
37.5	63	62	62	61	61
40.0	52	51	51	50	50
42.5	41	40	39	39	39
45.0	31	30	30	30	30
47.5	27	27	27	27	27
50.0	26	26	26	26	26
52.5	25	25	25	25	25
55.0	23	24	24	24	24
57.5	22	23	23	23	23
60.0	21	22	22	22	23
62.5	19	20	20	20	20
65.0	17	18	18	18	18
67.5	16	16	16	16	16
70.0	14	14	14	14	14
72.5	12	12	12	12	12
75.0	10	11	11	10	11
77.5	9	9	9	9	9
80.0	7	7	7	7	7
82.5	5	6	6	5	6
85.0	4	4	4	4	4
87.5	2	2	2	2	2
90.0	1	1	1	1	1
92.5	0	0	0	0	0
95.0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	178.64	N.A.	11.90
0-30	400.17	N.A.	26.70
0-40	674.29	N.A.	44.90
0-60	1219.13	N.A.	81.30
0-80	1493.4	N.A.	99.50
0-90	1500.1	N.A.	100.00
10-90	1456.86	N.A.	97.10
20-40	495.65	N.A.	33.00
20-50	778.70	N.A.	51.90
40-70	743.42	N.A.	49.60
60-80	274.27	N.A.	18.30
70-80	75.69	N.A.	5.00
80-90	6.70	N.A.	0.40
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1500.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.24
10-20	135.41
20-30	221.52
30-40	274.13
40-50	283.05
50-60	261.79
60-70	198.58
70-80	75.69
80-90	6.70
90-100	0.08
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	2.7	4.3	3.1	4.7	5.0	28.1	29.8	28.5	30.1	30.4
	3H	4.8	6.2	5.1	6.6	6.9	31.1	32.5	31.4	32.9	33.2
	4H	5.7	7.1	6.1	7.4	7.8	31.6	33.0	32.0	33.3	33.7
	6H	6.5	7.8	6.9	8.1	8.5	31.5	32.8	31.9	33.2	33.6
	8H	6.8	8.0	7.2	8.4	8.8	31.5	32.7	31.9	33.1	33.5
	12H	7.1	8.2	7.5	8.6	9.0	31.5	32.6	31.9	33.0	33.4

UGR Viewed Endwise

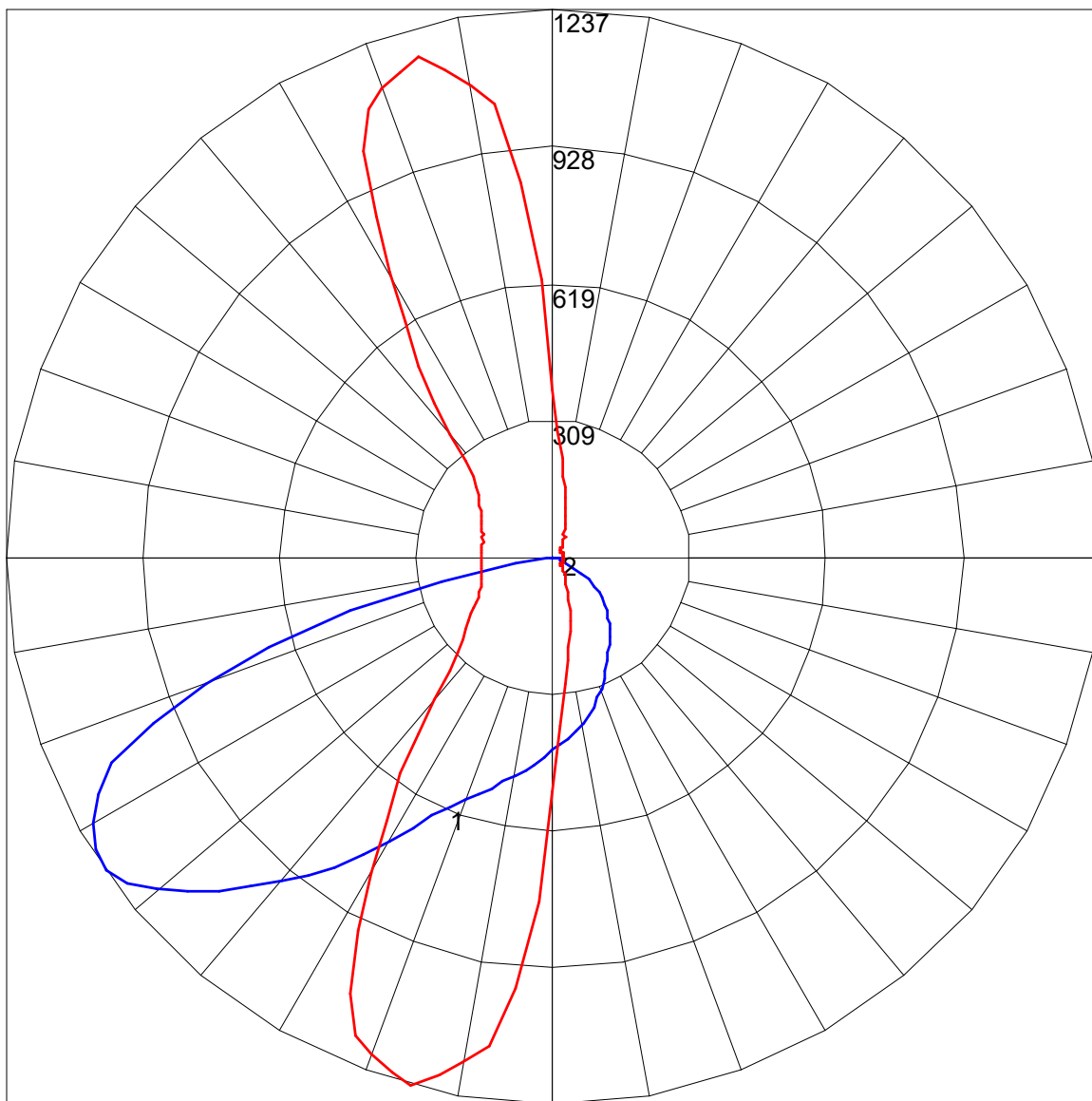
4H	2H	3.2	4.6	3.6	4.9	5.3	28.0	29.4	28.4	29.7	30.1
	3H	5.4	6.6	5.8	7.0	7.4	30.9	32.1	31.3	32.5	32.9
	4H	6.4	7.5	6.9	7.9	8.3	31.5	32.5	31.9	32.9	33.4
	6H	7.3	8.2	7.8	8.7	9.1	31.6	32.4	32.0	32.9	33.3
	8H	7.7	8.6	8.2	9.0	9.5	31.5	32.3	32.0	32.8	33.3
	12H	8.1	8.8	8.6	9.3	9.8	31.5	32.2	32.0	32.7	33.2

8H	4H	6.7	7.5	7.2	8.0	8.4	31.4	32.2	31.9	32.7	33.2
	6H	7.7	8.4	8.2	8.9	9.4	31.5	32.1	31.9	32.6	33.1
	8H	8.2	8.8	8.7	9.3	9.8	31.4	32.0	31.9	32.5	33.0
	12H	8.6	9.2	9.2	9.7	10.2	31.4	31.9	31.9	32.4	33.0

12H	4H	6.7	7.5	7.2	8.0	8.4	31.4	32.1	31.9	32.6	33.1
	6H	7.8	8.4	8.3	8.9	9.4	31.4	32.0	32.0	32.5	33.0
	8H	8.3	8.8	8.8	9.3	9.9	31.4	31.9	31.9	32.4	33.0

Maximum UGR = 33.7

POLAR GRAPH



Maximum Candela = 1237 Located At Horizontal Angle = 255, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (255 - 75) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)