



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LR16W-22G-3100-40K-A40-UNI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] G000660

[TESTLAB] TBR TORONTO

[ISSUEDATE] 11-25-2015

[MANUFAC] MERCURY LIGHTING

[MORE] FAIRFIELD, NEW JERSEY

[LUMCAT] LR16W-22G-3100-40K-A40-UNI

[LUMINAIRE] MERCURY 2X2 TROFFER LED LUMINAIRE

[MORE] POST-PAINTED WHITE INTERIOR AND PERFORATED BASKET WITH TRANSLUCENT ACRYLIC LENS INLAY

[LAMP] PHILIPS 2200lm-2FT-1R-LV3 840K

[BALLAST] 1x 40W PHILIPS Simplexet 1000mA/2

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3121
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	40.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	2577	2862	3140
55	2289	2763	3062
65	1811	2502	2772
75	1247	1926	2276
85	788	1242	1810

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68
1	1125.38	1125.27	1125.18	1125.08	1124.99	1124.91	1124.83	1124.76	1124.69	1124.64
2	1124.36	1124.16	1123.98	1123.82	1123.68	1123.56	1123.46	1123.38	1123.33	1123.30
3	1122.76	1122.47	1122.22	1122.01	1121.85	1121.72	1121.64	1121.61	1121.62	1121.68
4	1120.80	1120.42	1120.10	1119.84	1119.66	1119.54	1119.49	1119.52	1119.61	1119.71
5	1118.25	1117.77	1117.41	1117.14	1116.98	1116.93	1116.99	1117.16	1117.34	1117.54
6	1115.13	1114.58	1114.18	1113.92	1113.82	1113.87	1114.07	1114.37	1114.70	1115.16
7	1111.64	1111.01	1110.57	1110.33	1110.28	1110.43	1110.76	1111.19	1111.77	1112.49
8	1107.67	1106.96	1106.51	1106.30	1106.36	1106.66	1107.18	1107.78	1108.59	1109.49
9	1103.14	1102.36	1101.91	1101.77	1101.96	1102.48	1103.19	1104.09	1105.21	1106.35
10	1098.33	1097.46	1096.98	1096.88	1097.17	1097.85	1098.80	1100.06	1101.47	1103.07
11	1092.92	1091.98	1091.52	1091.53	1092.01	1092.93	1094.10	1095.68	1097.45	1099.43
12	1086.96	1085.97	1085.54	1085.67	1086.36	1087.53	1089.07	1091.00	1093.17	1095.55
13	1080.64	1079.59	1079.19	1079.43	1080.30	1081.73	1083.65	1085.97	1088.65	1091.47
14	1074.02	1072.88	1072.48	1072.83	1073.92	1075.62	1077.91	1080.64	1083.77	1087.16
15	1066.79	1065.62	1065.29	1065.82	1067.17	1069.17	1071.90	1075.05	1078.65	1080.36
16	1058.94	1057.76	1057.55	1058.32	1060.03	1062.37	1065.48	1069.24	1072.01	1073.39
17	1050.95	1049.69	1049.51	1050.41	1052.38	1055.21	1058.81	1063.02	1064.48	1066.25
18	1042.57	1041.25	1041.13	1042.22	1044.46	1047.68	1051.81	1054.97	1056.61	1058.86
19	1033.61	1032.28	1032.30	1033.64	1036.21	1039.86	1044.50	1046.48	1048.58	1051.32
20	1024.48	1023.06	1023.12	1024.67	1027.60	1031.74	1035.99	1037.71	1040.36	1043.65
21	1014.72	1013.31	1013.53	1015.35	1018.62	1023.32	1026.55	1028.73	1031.85	1035.71
22	1004.53	1003.12	1003.50	1005.64	1009.33	1014.47	1016.85	1019.49	1023.13	1027.60
23	994.24	992.71	993.13	995.54	999.70	1004.93	1006.77	1009.99	1014.24	1019.32
24	983.42	981.90	982.47	985.09	989.66	994.18	996.50	1000.25	1005.19	1010.87
25	972.12	970.59	971.37	974.42	979.35	983.04	985.96	990.31	995.89	1002.30
26	960.41	958.88	959.84	963.27	968.81	971.70	975.13	980.17	986.39	993.63
27	948.50	946.97	948.07	951.75	957.85	960.16	964.06	969.74	976.73	984.65
28	936.34	934.77	936.04	940.12	945.77	948.26	952.89	959.12	966.89	973.82
29	923.59	922.05	923.58	928.09	933.28	936.10	941.34	948.36	956.83	962.36
30	910.50	908.95	910.70	915.67	920.39	923.83	929.57	937.44	945.64	950.66
31	897.18	895.66	897.59	902.86	907.16	911.24	917.67	926.28	933.22	938.88
32	883.58	882.02	884.21	890.00	893.56	898.34	905.60	914.93	920.65	927.02
33	869.67	868.09	870.45	876.67	879.94	885.16	893.34	902.26	907.85	914.99
34	855.27	853.77	856.44	863.08	865.92	871.84	880.78	888.67	894.97	902.92
35	840.63	839.11	842.08	848.64	851.69	858.34	867.97	874.96	882.03	890.79
36	825.70	824.23	827.43	833.59	837.30	844.60	855.06	860.94	868.88	878.47
37	810.45	809.07	812.62	818.34	822.62	830.74	840.31	846.82	855.66	866.12
38	794.90	793.55	797.49	802.95	807.71	816.73	825.33	832.64	842.35	853.75
39	779.12	777.72	781.95	787.23	792.71	802.36	810.22	818.42	828.88	841.22
40	763.08	761.69	766.13	771.14	777.44	787.95	794.97	803.95	815.38	826.96
41	746.52	745.30	750.19	754.85	761.87	772.95	779.49	789.42	801.89	812.12
42	729.72	728.56	733.95	738.47	746.14	756.50	763.93	774.83	788.23	797.28
43	712.86	711.72	717.35	721.84	730.27	739.88	748.31	760.15	772.43	782.37
44	695.40	694.46	700.69	704.92	714.26	723.23	732.60	745.34	756.62	767.48
45	677.84	676.95	683.63	687.97	698.04	706.44	716.65	730.49	740.80	752.64
46	659.93	659.18	665.96	670.66	681.74	689.49	700.71	714.08	724.95	737.72
47	641.92	641.25	647.79	653.17	664.97	672.43	684.77	697.34	709.12	722.82
48	623.60	623.01	629.51	635.52	646.81	655.31	668.85	680.50	693.21	707.90
49	604.85	604.50	610.85	617.86	628.56	638.14	652.64	663.66	677.34	693.02
50	586.14	585.92	592.08	599.95	610.23	620.87	634.92	646.87	661.54	677.78
51	567.06	567.03	573.30	581.79	591.94	603.53	617.05	630.13	645.75	660.03
52	547.60	547.76	554.17	563.62	573.36	586.21	599.21	613.41	630.02	642.36
53	528.04	528.40	534.77	545.40	554.69	568.86	581.41	596.63	613.06	624.65

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CANDELA TABULATION - (Cont.)

54	508.33	508.96	515.35	527.06	536.10	551.14	563.65	579.88	594.65	607.02
55	488.30	489.27	495.86	508.00	517.52	532.10	545.95	563.23	576.32	589.51
56	468.22	469.43	476.21	488.08	498.80	513.21	528.31	545.74	558.10	572.14
57	447.92	449.38	456.45	468.17	480.11	494.48	510.74	526.71	540.04	554.81
58	427.65	429.22	436.64	448.25	461.60	475.84	493.27	507.81	521.94	537.58
59	407.19	409.03	416.85	428.35	443.02	457.23	475.92	488.95	503.99	520.37
60	386.59	388.82	397.07	408.57	423.71	438.70	456.62	470.26	486.07	499.98
61	365.85	368.48	377.27	388.90	404.10	420.36	437.03	451.70	468.33	478.28
62	345.25	348.19	357.49	369.31	384.61	402.21	417.68	433.30	449.32	456.78
63	324.89	328.11	337.96	349.86	365.34	384.26	398.55	415.08	427.69	435.48
64	304.50	308.03	318.77	330.63	346.36	364.89	379.61	396.95	406.16	414.33
65	284.71	288.00	299.18	311.58	327.68	345.18	360.78	376.41	384.88	393.37
66	264.93	268.32	279.41	292.87	309.33	325.81	342.27	355.07	363.86	372.55
67	245.70	249.05	259.88	273.70	291.28	306.66	324.13	334.04	343.10	351.90
68	227.15	230.41	241.02	254.84	273.19	287.86	303.86	313.34	322.58	331.19
69	209.57	212.53	222.71	236.52	253.88	269.49	283.23	292.97	302.31	309.75
70	192.59	195.50	205.12	218.90	235.11	251.48	262.99	272.90	281.94	288.51
71	176.51	179.34	188.46	201.96	216.95	232.65	243.19	253.17	261.15	267.47
72	161.42	164.03	172.52	185.66	199.32	213.35	223.85	233.53	240.66	246.66
73	146.90	149.52	157.33	169.92	182.31	194.61	204.93	213.80	220.44	226.05
74	133.07	135.74	142.58	153.56	165.92	176.45	186.40	194.44	200.51	205.64
75	120.03	122.60	128.50	138.11	148.93	158.91	168.23	175.48	180.83	185.39
76	107.37	110.28	115.20	123.42	132.91	142.08	150.59	156.88	161.41	166.79
77	95.67	98.07	102.61	109.43	117.70	126.11	133.47	138.61	142.86	150.36
78	84.45	86.22	90.59	95.99	103.20	110.94	116.81	120.66	127.72	134.13
79	73.81	74.74	77.81	82.91	89.53	96.37	100.60	106.15	112.80	118.08
80	63.78	63.46	65.23	70.64	77.27	82.41	86.00	92.76	98.10	102.19
81	54.85	52.35	53.81	59.33	65.68	69.00	74.37	79.62	83.59	86.45
82	46.75	41.62	43.69	49.41	54.73	58.35	63.04	66.73	69.25	70.83
83	39.48	32.26	35.52	40.88	44.51	48.82	51.99	54.06	55.05	56.12
84	32.56	24.97	28.47	32.90	36.56	39.57	41.17	41.56	44.12	48.16
85	25.56	19.51	22.44	25.83	28.91	30.54	30.71	33.63	36.87	40.26
86	16.68	15.06	17.13	19.78	21.50	22.56	24.71	27.07	29.67	32.40
87	7.93	11.56	12.36	14.01	15.32	17.13	18.78	20.55	22.52	24.58
88	4.18	7.71	7.87	9.24	10.52	11.77	12.89	14.08	15.40	16.79
89	2.12	3.46	4.24	5.08	5.78	6.44	7.03	7.63	8.30	9.02
90	0.65	0.92	0.93	0.97	1.06	1.14	1.18	1.19	1.22	1.26

**Vert.
Angles**

Horizontal Angles

	50	55	60	65	70	75	80	85	90	95
0	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68
1	1124.59	1124.54	1124.51	1124.49	1124.47	1124.47	1124.47	1124.48	1124.51	1124.45
2	1123.29	1123.31	1123.34	1123.30	1123.27	1123.26	1123.27	1123.29	1123.34	1123.23
3	1121.74	1121.76	1121.82	1121.92	1122.04	1122.05	1122.06	1122.10	1122.17	1122.00
4	1119.85	1120.05	1120.30	1120.43	1120.60	1120.81	1120.85	1120.91	1121.00	1120.78
5	1117.83	1118.16	1118.48	1118.87	1119.15	1119.42	1119.64	1119.72	1119.83	1119.56
6	1115.65	1116.11	1116.65	1117.13	1117.68	1118.02	1118.40	1118.52	1118.66	1118.34
7	1113.17	1113.99	1114.64	1115.37	1116.02	1116.63	1117.08	1117.33	1117.50	1117.12
8	1110.53	1111.53	1112.62	1113.48	1114.36	1115.20	1115.75	1116.13	1116.33	1115.90
9	1107.63	1109.00	1110.30	1111.57	1112.67	1113.65	1114.42	1114.93	1115.16	1114.68
10	1104.61	1106.25	1107.97	1109.52	1110.88	1112.10	1113.10	1113.74	1113.99	1113.46
11	1101.50	1103.43	1105.41	1107.35	1108.00	1108.56	1109.15	1109.53	1109.67	1109.22
12	1098.05	1100.54	1101.53	1102.36	1103.23	1103.95	1104.70	1105.18	1105.36	1104.81
13	1094.35	1095.21	1096.14	1097.19	1098.31	1099.29	1100.18	1100.81	1101.04	1100.36
14	1088.16	1089.41	1090.74	1092.02	1093.39	1094.63	1095.67	1096.43	1096.72	1095.92

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CANDELA TABULATION - (Cont.)

15	1081.74	1083.35	1085.08	1086.76	1088.45	1089.97	1091.16	1092.06	1092.40	1091.47
16	1075.20	1077.25	1079.39	1081.44	1083.40	1085.26	1086.65	1087.68	1088.08	1087.02
17	1068.47	1070.95	1073.52	1076.07	1078.36	1080.46	1082.14	1083.31	1083.77	1082.58
18	1061.55	1064.56	1067.63	1070.54	1073.29	1075.67	1077.61	1078.94	1079.45	1078.14
19	1054.55	1058.01	1061.58	1065.01	1068.12	1070.88	1073.05	1074.57	1075.13	1073.69
20	1047.33	1051.35	1055.48	1059.37	1062.94	1066.06	1068.49	1070.21	1070.81	1069.25
21	1040.00	1044.61	1049.25	1053.70	1057.74	1060.13	1061.78	1063.03	1063.48	1062.03
22	1032.61	1037.70	1042.95	1047.65	1050.02	1052.29	1054.22	1055.65	1056.15	1054.60
23	1024.96	1030.74	1036.01	1038.97	1041.80	1044.44	1046.66	1048.27	1048.81	1047.17
24	1017.21	1023.56	1026.83	1030.31	1033.59	1036.58	1039.07	1040.86	1041.48	1039.74
25	1009.24	1013.86	1017.56	1021.53	1025.26	1028.63	1031.42	1033.43	1034.15	1032.32
26	999.77	1003.91	1008.19	1012.70	1016.92	1020.68	1023.78	1025.99	1026.81	1024.90
27	989.24	993.94	998.79	1003.85	1008.59	1012.74	1016.13	1018.56	1019.48	1017.47
28	978.51	983.76	989.32	994.90	1000.17	1004.81	1008.49	1011.12	1012.15	1010.05
29	967.70	973.58	979.85	985.96	991.74	996.78	1000.85	1003.69	1004.82	1002.63
30	956.70	963.33	970.23	976.95	983.33	988.76	993.21	996.25	997.48	995.20
31	945.63	953.04	960.65	967.85	974.85	980.36	983.72	986.16	987.20	985.12
32	934.51	942.65	950.89	958.78	965.08	969.50	973.13	975.79	976.91	974.75
33	923.27	932.19	941.10	948.30	953.77	958.61	962.54	965.42	966.63	964.38
34	912.02	921.60	930.49	936.50	942.46	947.67	951.95	955.06	956.34	954.02
35	900.61	910.98	918.08	924.72	931.10	936.74	941.37	944.70	946.06	943.65
36	889.16	898.29	905.67	912.88	919.75	925.82	930.79	934.34	935.77	933.28
37	877.61	885.17	893.19	901.06	908.43	914.91	920.22	923.97	925.49	922.91
38	863.75	872.04	880.75	889.22	897.05	903.97	909.61	913.59	915.20	912.50
39	849.89	858.89	868.19	877.27	885.63	893.03	898.99	903.21	904.92	902.10
40	835.89	845.67	855.66	865.35	874.24	882.11	888.38	892.82	894.63	891.70
41	821.91	832.46	843.12	853.44	862.87	871.13	875.81	879.34	880.89	878.24
42	807.85	819.16	830.53	841.48	850.66	856.80	861.75	865.48	867.15	864.42
43	793.82	805.91	817.98	828.88	835.89	842.40	847.69	851.63	853.41	850.60
44	779.71	792.63	805.41	813.65	821.14	828.01	833.63	837.77	839.67	836.78
45	765.67	779.40	789.93	798.39	806.43	813.62	819.57	823.92	825.93	822.97
46	751.63	765.13	774.18	783.18	791.68	799.26	805.49	810.06	812.19	809.16
47	737.66	748.73	758.40	768.00	776.94	784.90	791.42	796.21	798.44	795.35
48	722.34	732.31	742.68	752.77	762.22	770.53	777.35	782.36	784.70	781.55
49	705.28	715.89	726.93	737.59	747.52	756.16	763.30	768.51	770.96	767.74
50	688.25	699.55	711.17	722.46	732.77	741.80	749.25	754.66	757.22	753.94
51	671.30	683.25	695.46	707.29	718.03	727.29	731.34	734.60	736.42	733.87
52	654.36	667.02	679.78	692.12	701.68	706.35	710.48	713.79	715.62	713.05
53	637.54	650.83	664.14	675.44	680.60	685.45	689.64	692.98	694.83	692.23
54	620.71	634.71	648.53	654.22	659.56	664.54	668.79	672.17	674.03	671.41
55	603.91	618.66	627.15	633.02	638.53	643.64	647.94	651.35	653.23	650.58
56	587.18	599.74	605.82	611.89	617.56	622.77	627.12	630.55	632.44	629.76
57	570.53	578.19	584.58	590.84	596.63	601.92	606.31	609.74	611.64	608.94
58	550.20	556.76	563.40	569.87	575.75	581.10	585.51	588.95	590.84	588.13
59	528.54	535.39	542.25	548.88	554.91	560.30	564.73	568.15	570.05	567.32
60	507.04	514.15	521.21	527.95	534.08	539.52	543.97	547.36	549.25	546.52
61	485.66	493.04	500.26	507.09	513.29	518.48	522.04	524.85	526.55	524.04
62	464.41	472.04	479.37	486.29	491.65	495.84	499.39	502.16	503.84	501.40
63	443.32	451.16	458.57	464.44	469.10	473.23	476.75	479.47	481.14	478.76
64	422.38	430.37	436.89	441.97	446.59	450.64	454.12	456.79	458.44	456.12
65	401.59	409.12	414.58	419.57	424.11	428.08	431.48	434.11	435.73	433.49
66	380.94	386.93	392.32	397.23	401.65	405.55	408.85	411.43	413.03	410.87
67	359.20	364.88	370.15	374.96	379.23	383.04	386.23	388.76	390.33	388.25
68	337.42	342.95	348.08	352.74	356.86	360.56	363.62	366.09	367.62	365.63
69	315.81	321.14	326.10	330.56	334.53	338.10	341.02	343.43	344.92	343.02
70	294.34	299.46	304.21	308.45	312.24	315.64	318.43	320.77	322.21	320.42

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CANDELA TABULATION - (Cont.)

71	273.03	277.90	282.37	286.39	289.98	294.06	297.48	300.11	301.60	299.74
72	251.87	256.46	260.61	265.04	269.91	273.97	277.17	279.61	280.99	279.22
73	230.87	235.09	240.27	245.66	250.14	253.90	256.88	259.11	260.37	258.69
74	209.98	215.59	221.39	226.34	230.42	233.86	236.59	238.62	239.76	238.17
75	191.07	197.37	202.60	207.06	210.74	213.84	216.32	218.13	219.14	217.65
76	173.65	179.25	183.88	187.82	191.08	193.83	196.05	197.64	198.53	197.14
77	156.38	161.24	165.22	168.64	171.47	173.85	175.80	177.15	177.92	176.62
78	139.24	143.31	146.64	149.50	151.88	153.88	155.55	156.67	157.30	156.11
79	122.23	125.47	128.11	130.41	132.32	133.92	135.31	136.19	136.69	135.60
80	105.32	107.71	109.65	111.35	112.78	113.98	115.07	115.71	116.07	115.09
81	88.52	90.03	91.24	93.02	96.87	100.00	102.48	103.96	104.59	103.40
82	71.82	74.24	78.73	82.77	86.22	89.02	91.23	92.55	93.11	92.05
83	60.72	65.02	68.98	72.54	75.58	78.04	79.99	81.14	81.64	80.70
84	52.14	55.85	59.27	62.33	64.95	67.07	68.75	69.73	70.16	69.35
85	43.59	46.71	49.58	52.14	54.33	56.11	57.51	58.33	58.68	58.01
86	35.09	37.60	39.91	41.97	43.73	45.15	46.27	46.92	47.20	46.66
87	26.62	28.51	30.26	31.80	33.13	34.20	35.04	35.51	35.72	35.31
88	18.17	19.44	20.61	21.65	22.53	23.25	23.80	24.11	24.24	23.97
89	9.73	10.38	10.98	11.50	11.94	12.30	12.57	12.70	12.76	12.62
90	1.30	1.33	1.35	1.35	1.35	1.35	1.34	1.30	1.29	1.28

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68
1	1124.40	1124.37	1124.34	1124.32	1124.32	1124.32	1124.33	1124.36	1124.39	1124.44
2	1123.13	1123.06	1123.01	1122.97	1122.96	1122.82	1122.71	1122.63	1122.58	1122.57
3	1121.87	1121.76	1121.65	1121.36	1121.11	1120.90	1120.73	1120.66	1120.65	1120.69
4	1120.60	1120.42	1119.98	1119.59	1119.25	1119.08	1118.97	1118.91	1118.84	1118.68
5	1119.33	1118.86	1118.30	1117.86	1117.59	1117.38	1117.03	1116.64	1116.35	1116.11
6	1118.03	1117.29	1116.65	1116.25	1115.92	1115.25	1114.68	1114.10	1113.59	1113.21
7	1116.58	1115.73	1115.10	1114.64	1113.78	1112.99	1112.10	1111.36	1110.62	1110.03
8	1115.14	1114.19	1113.56	1112.67	1111.63	1110.47	1109.41	1108.36	1107.44	1106.57
9	1113.70	1112.72	1111.96	1110.65	1109.27	1107.90	1106.52	1105.19	1103.98	1102.82
10	1112.26	1111.26	1110.09	1108.54	1106.91	1105.18	1103.47	1101.85	1100.20	1098.77
11	1108.18	1107.79	1107.10	1106.35	1104.36	1102.34	1100.31	1098.18	1096.19	1094.45
12	1103.66	1103.18	1102.21	1101.27	1100.45	1099.39	1096.83	1094.31	1091.95	1089.75
13	1099.17	1098.40	1097.20	1096.02	1094.94	1093.96	1093.12	1090.27	1087.44	1084.70
14	1094.68	1093.62	1092.20	1090.77	1089.41	1088.04	1086.89	1085.99	1082.54	1079.38
15	1090.18	1088.84	1087.17	1085.39	1083.63	1081.93	1080.40	1079.09	1077.44	1073.81
16	1085.67	1084.03	1082.02	1079.96	1077.82	1075.77	1073.77	1072.01	1070.74	1067.95
17	1081.16	1079.14	1076.88	1074.47	1071.88	1069.36	1066.90	1064.77	1063.08	1061.75
18	1076.58	1074.26	1071.70	1068.81	1065.92	1062.85	1059.88	1057.28	1055.11	1053.57
19	1071.92	1069.39	1066.41	1063.16	1059.76	1056.17	1052.76	1049.63	1046.94	1045.04
20	1067.26	1064.47	1061.11	1057.43	1053.53	1049.38	1045.46	1041.79	1038.59	1036.20
21	1060.49	1058.46	1055.80	1051.68	1047.15	1042.50	1038.00	1033.69	1030.05	1026.97
22	1052.88	1050.59	1048.04	1045.54	1040.72	1035.51	1030.39	1025.45	1021.13	1017.57
23	1045.27	1042.72	1039.80	1036.83	1033.66	1028.50	1022.57	1017.06	1012.06	1007.99
24	1037.65	1034.84	1031.57	1028.14	1024.46	1021.10	1014.66	1008.45	1002.83	998.12
25	1029.99	1026.89	1023.25	1019.35	1015.21	1011.31	1006.54	999.69	993.41	987.98
26	1022.33	1018.94	1014.93	1010.52	1005.90	1001.33	997.00	990.80	983.72	977.57
27	1014.67	1011.00	1006.61	1001.67	996.54	991.33	986.48	981.68	973.84	967.00
28	1007.02	1003.06	998.19	992.70	987.03	981.16	975.67	970.77	963.76	956.20
29	999.37	995.03	989.76	983.74	977.54	970.99	964.82	959.25	953.53	945.17
30	991.73	986.99	981.35	974.74	967.88	960.71	953.84	947.48	942.20	933.95
31	982.23	978.57	972.88	965.71	958.25	950.37	942.75	935.66	929.68	922.59

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CANDELA TABULATION - (Cont.)

32	971.62	967.65	963.09	956.69	948.50	939.93	931.59	923.82	916.96	910.92
33	961.01	956.70	951.71	946.19	938.76	929.46	920.28	911.73	904.11	898.06
34	950.41	945.73	940.32	934.30	928.09	918.93	908.97	899.56	891.11	884.33
35	939.80	934.76	928.86	922.41	915.49	908.33	897.60	887.29	878.00	870.43
36	929.20	923.81	917.41	910.40	902.90	895.49	886.18	874.92	864.79	856.35
37	918.60	912.87	905.98	898.43	890.29	882.18	874.57	862.49	851.47	842.04
38	907.94	901.87	894.52	886.45	877.71	868.84	860.45	849.92	838.09	827.65
39	897.29	890.85	883.05	874.39	865.04	855.51	846.30	837.31	824.56	813.30
40	886.63	879.85	871.59	862.37	852.38	842.16	832.07	822.89	810.83	798.70
41	874.07	868.78	860.15	850.32	839.68	828.80	817.86	807.85	797.09	783.96
42	860.05	854.50	847.86	838.20	826.91	815.27	803.53	792.77	783.30	769.13
43	846.04	840.17	833.13	825.48	814.19	801.79	789.26	777.61	767.21	754.23
44	832.04	825.85	818.43	810.30	801.42	788.23	774.93	762.33	751.07	739.36
45	818.03	811.55	803.76	795.12	785.94	774.73	760.67	747.06	734.84	724.34
46	804.02	797.26	789.07	779.98	770.21	760.28	746.30	731.78	718.60	707.52
47	790.01	782.99	774.40	764.88	754.51	743.91	731.98	716.53	702.39	690.33
48	776.02	768.71	759.75	749.70	738.86	727.54	716.54	701.30	686.20	673.19
49	762.04	754.41	745.13	734.57	723.17	711.19	699.54	686.08	669.99	656.04
50	748.07	740.14	730.47	719.48	707.44	694.89	682.44	670.54	653.82	638.80
51	730.17	725.71	715.82	704.37	691.77	678.59	665.44	652.76	637.61	621.53
52	709.30	704.70	699.52	689.26	676.11	662.37	648.47	635.04	621.48	604.37
53	688.44	683.71	678.35	672.58	660.49	646.17	631.63	617.43	604.35	587.30
54	667.56	662.71	657.20	651.20	644.90	630.06	614.85	599.94	585.99	570.23
55	646.68	641.73	636.05	629.82	623.31	614.03	598.14	582.46	567.70	553.22
56	625.81	620.77	614.94	608.51	601.81	595.07	581.46	565.06	549.50	535.48
57	604.96	599.84	593.88	587.28	580.39	573.34	564.81	547.75	531.47	516.48
58	584.12	578.94	572.87	566.12	559.02	551.70	544.28	530.58	513.51	497.67
59	563.30	558.06	551.89	544.99	537.65	530.09	522.42	513.53	495.73	478.99
60	542.49	537.22	530.93	523.92	516.38	508.62	500.71	493.12	478.00	460.47
61	520.58	516.12	510.01	502.91	495.20	487.27	479.14	471.20	460.45	442.08
62	498.01	493.60	488.37	481.95	474.08	466.00	457.73	449.41	441.39	423.86
63	475.45	471.11	465.97	460.16	453.04	444.85	436.47	427.82	419.45	405.81
64	452.91	448.65	443.62	437.90	431.42	423.79	415.26	406.42	397.77	388.04
65	430.37	426.22	421.31	415.72	409.40	402.55	394.21	385.23	376.36	367.59
66	407.84	403.83	399.02	393.61	387.46	380.78	373.32	364.23	355.15	346.04
67	385.33	381.46	376.78	371.58	365.63	359.15	351.92	343.43	334.22	324.81
68	362.83	359.12	354.59	349.60	343.88	337.62	330.60	322.75	313.53	303.87
69	340.34	336.81	332.45	327.69	322.23	316.20	309.46	301.88	293.07	283.26
70	317.87	314.50	310.35	305.84	300.66	294.92	288.50	281.25	272.83	263.03
71	296.88	292.98	288.29	284.06	279.17	273.76	267.70	260.85	252.76	243.12
72	276.49	272.79	268.14	262.90	257.76	252.71	247.08	240.62	233.01	223.68
73	256.11	252.62	248.28	243.39	237.57	231.77	226.60	220.62	213.58	204.93
74	235.73	232.47	228.46	223.95	218.61	212.41	206.26	200.84	194.44	186.57
75	215.36	212.35	208.67	204.55	199.72	194.13	187.59	181.27	175.59	168.57
76	195.01	192.24	188.91	185.20	180.92	175.97	170.16	163.11	157.00	150.95
77	174.66	172.15	169.18	165.90	162.17	157.90	152.89	146.74	139.17	133.69
78	154.31	152.08	149.49	146.64	143.49	139.94	135.74	130.57	124.12	116.80
79	133.98	132.03	129.81	127.43	124.87	122.06	118.73	114.58	109.31	102.68
80	113.65	111.98	110.16	108.26	106.32	104.26	101.82	98.74	94.73	89.51
81	101.16	98.10	94.30	89.85	87.82	86.53	85.03	83.05	80.34	76.60
82	90.05	87.31	83.91	79.93	75.54	70.80	68.33	67.49	66.14	63.95
83	78.94	76.53	73.54	70.03	66.17	61.99	57.54	52.88	52.10	51.51
84	67.84	65.76	63.19	60.16	56.83	53.23	49.38	45.35	41.45	39.24
85	56.74	55.00	52.84	50.31	47.52	44.50	41.27	37.89	34.62	31.65
86	45.64	44.24	42.51	40.47	38.22	35.80	33.19	30.47	27.84	25.44
87	34.55	33.49	32.19	30.65	28.95	27.12	25.15	23.09	21.10	19.28

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CANDELA TABULATION - (Cont.)

88	23.46	22.75	21.88	20.83	19.69	18.46	17.13	15.73	14.39	13.15
89	12.37	12.00	11.57	11.02	10.44	9.81	9.12	8.40	7.70	7.05
90	1.28	1.26	1.26	1.22	1.19	1.17	1.12	1.08	1.03	0.96

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68
1	1124.49	1124.55	1124.62	1124.70	1124.79	1124.88	1124.98	1124.81	1124.66	1124.51
2	1122.58	1122.62	1122.70	1122.81	1122.94	1123.10	1123.30	1122.97	1122.67	1122.41
3	1120.76	1120.87	1121.02	1121.21	1121.44	1121.70	1121.99	1121.50	1121.05	1120.63
4	1118.60	1118.59	1118.66	1118.82	1119.04	1119.34	1119.72	1119.09	1118.53	1118.06
5	1115.90	1115.80	1115.82	1115.95	1116.20	1116.55	1117.01	1116.23	1115.57	1115.02
6	1112.89	1112.67	1112.61	1112.71	1112.95	1113.34	1113.88	1112.97	1112.20	1111.59
7	1109.58	1109.20	1109.02	1109.04	1109.26	1109.67	1110.29	1109.23	1108.38	1107.73
8	1105.91	1105.36	1105.03	1104.95	1105.13	1105.57	1106.26	1105.06	1104.13	1103.45
9	1101.87	1101.15	1100.65	1100.47	1100.62	1101.08	1101.85	1100.51	1099.49	1098.79
10	1097.52	1096.60	1095.88	1095.54	1095.60	1096.04	1096.87	1095.42	1094.35	1093.68
11	1092.84	1091.62	1090.65	1090.13	1090.09	1090.52	1091.43	1089.85	1088.75	1088.13
12	1087.77	1086.18	1085.00	1084.31	1084.18	1084.60	1085.57	1083.88	1082.74	1082.16
13	1082.35	1080.43	1078.99	1078.07	1077.80	1078.18	1079.21	1077.41	1076.26	1075.77
14	1076.65	1074.30	1072.55	1071.39	1070.97	1071.31	1072.39	1070.49	1069.35	1068.95
15	1070.58	1067.80	1065.72	1064.30	1063.71	1063.98	1065.10	1063.14	1062.03	1061.76
16	1064.15	1060.95	1058.53	1056.83	1056.05	1056.23	1057.36	1055.32	1054.26	1054.16
17	1057.44	1053.83	1051.03	1048.99	1048.04	1048.20	1049.45	1047.28	1046.19	1046.19
18	1050.52	1046.38	1043.03	1040.71	1039.54	1039.59	1040.86	1038.65	1037.65	1037.86
19	1043.22	1038.42	1034.68	1032.06	1030.67	1030.59	1031.86	1029.59	1028.68	1029.10
20	1034.52	1030.25	1026.09	1023.09	1021.44	1021.28	1022.60	1020.23	1019.35	1019.97
21	1024.96	1021.89	1017.11	1013.70	1011.75	1011.46	1012.82	1010.41	1009.63	1010.47
22	1015.22	1013.04	1007.69	1003.88	1001.71	1001.31	1002.70	1000.22	999.53	1000.61
23	1005.02	1003.29	997.99	993.78	991.27	990.72	992.14	989.60	989.02	990.40
24	994.49	992.39	987.95	983.23	980.39	979.66	981.08	978.52	978.10	979.78
25	983.76	981.16	977.51	972.32	969.19	968.34	969.80	967.17	966.85	968.80
26	972.80	969.60	966.79	961.15	957.63	956.55	957.96	955.33	955.21	957.54
27	961.55	957.77	955.81	949.61	945.72	944.51	945.97	943.26	943.23	945.87
28	950.04	945.72	943.62	937.74	933.43	931.95	933.37	930.69	930.90	933.90
29	938.30	933.38	930.76	925.48	920.80	919.17	920.64	917.90	918.25	921.61
30	926.31	920.77	917.59	912.94	907.75	905.78	907.17	904.53	905.21	909.05
31	914.12	907.84	904.12	899.93	894.41	892.31	893.73	891.04	891.87	896.09
32	901.73	894.69	890.23	886.85	880.90	878.51	879.85	877.20	878.29	882.95
33	889.09	881.20	876.28	873.52	866.94	864.23	865.60	862.92	864.29	869.51
34	876.30	867.54	862.10	859.64	852.60	849.61	850.83	848.28	849.94	855.61
35	863.11	853.77	847.49	844.88	838.08	834.79	836.03	833.45	835.37	840.79
36	849.88	839.74	832.67	829.60	823.16	819.54	820.80	818.20	820.44	825.43
37	834.97	825.44	817.67	813.86	807.87	804.03	805.26	802.72	805.19	809.66
38	819.80	810.88	802.36	797.88	792.47	788.33	789.48	786.97	789.79	793.70
39	804.47	796.23	786.75	781.82	776.79	772.10	773.11	770.75	774.03	777.58
40	788.85	781.30	771.03	765.47	760.59	755.51	756.49	754.15	757.86	761.13
41	773.25	765.81	755.13	748.69	744.20	738.98	739.88	737.56	741.42	744.36
42	757.49	749.11	738.96	731.76	727.91	722.04	722.77	720.60	724.99	727.37
43	741.55	732.30	722.49	714.90	711.04	704.53	705.12	703.11	708.13	710.36
44	725.58	715.39	706.13	697.53	693.73	687.08	687.66	685.70	690.89	693.05
45	709.56	698.17	689.47	679.74	676.55	669.28	669.76	667.96	673.81	675.28
46	693.42	681.09	672.45	662.09	658.46	651.15	651.40	649.79	655.78	657.73
47	677.14	663.86	655.05	644.20	639.89	632.83	632.89	631.42	637.07	639.82
48	660.73	646.44	636.73	626.13	621.13	614.42	614.43	613.10	618.26	621.68

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CANDELA TABULATION - (Cont.)

49	644.53	628.89	618.39	607.77	602.24	595.68	595.48	594.33	599.57	603.40
50	626.56	611.44	599.84	589.46	583.02	576.61	576.32	575.25	580.22	585.11
51	608.30	594.04	581.03	570.92	563.51	557.39	556.75	556.07	560.73	566.51
52	589.98	576.53	562.48	552.21	544.04	538.01	537.23	536.67	541.24	547.80
53	571.77	558.96	543.70	533.42	524.33	518.34	517.29	516.98	521.53	528.93
54	553.67	541.08	524.83	514.52	504.46	498.53	497.36	497.22	501.63	509.98
55	535.64	521.96	506.05	495.15	484.43	478.76	477.29	477.44	481.70	490.77
56	517.55	502.60	487.37	475.18	464.49	458.63	456.77	457.30	461.73	470.84
57	499.59	483.36	468.64	455.12	444.34	438.43	436.33	437.07	441.54	450.94
58	481.77	464.33	449.89	435.18	424.18	418.19	415.72	416.84	421.30	431.03
59	464.08	445.52	431.40	415.31	403.97	397.75	394.91	396.44	401.13	411.15
60	444.93	426.67	412.01	395.52	383.82	377.47	374.26	376.13	380.98	391.37
61	425.58	408.02	392.15	375.84	363.80	357.19	353.58	355.78	360.97	371.86
62	406.45	389.64	372.43	356.38	343.93	336.93	332.85	335.61	341.16	352.59
63	387.57	371.55	353.01	337.23	324.27	316.96	312.39	315.61	321.47	333.62
64	368.96	352.38	333.89	318.45	304.75	297.08	292.16	295.80	302.03	314.93
65	350.56	332.98	315.01	299.88	285.27	276.94	272.43	275.91	282.79	296.54
66	332.39	313.85	296.41	281.61	266.02	257.49	253.13	256.48	263.72	278.50
67	314.43	295.17	278.11	262.28	247.23	238.83	234.61	237.88	245.14	259.61
68	294.18	276.87	259.94	243.44	228.93	220.81	216.99	220.05	227.25	241.34
69	273.52	259.00	241.23	225.20	211.55	203.63	200.44	203.08	210.39	223.67
70	253.20	241.51	223.14	207.59	194.82	187.44	184.72	187.18	194.25	206.64
71	233.32	222.97	205.82	190.56	178.93	172.20	169.99	172.11	179.02	190.33
72	213.91	203.84	189.11	174.57	163.95	157.85	155.80	157.78	164.71	175.00
73	194.97	185.32	173.07	159.23	149.76	144.28	142.77	144.25	151.11	160.18
74	176.63	167.40	157.74	143.94	135.53	131.06	129.76	131.17	137.26	145.42
75	159.63	150.12	141.14	129.61	121.69	118.14	117.38	118.73	123.80	131.64
76	143.15	133.56	125.46	115.84	108.51	105.74	105.45	106.79	111.17	118.48
77	127.18	118.57	110.62	102.76	95.83	93.45	94.24	95.30	99.24	106.02
78	111.69	104.67	96.59	90.21	83.66	81.35	83.31	84.25	87.94	94.00
79	96.68	91.38	83.62	78.05	71.85	69.67	72.85	73.73	76.97	82.26
80	83.01	78.69	72.67	66.74	61.04	58.71	63.11	64.14	66.86	71.32
81	71.67	66.55	62.32	56.39	51.35	48.46	54.30	55.50	57.85	61.30
82	60.62	56.39	52.55	47.29	42.49	38.66	46.29	47.49	49.65	52.39
83	49.84	47.05	43.35	39.34	34.36	29.99	39.10	40.03	41.93	44.43
84	39.27	37.97	35.42	31.81	27.19	22.82	30.71	33.05	34.68	36.76
85	29.06	29.10	27.78	24.97	21.22	17.51	21.94	26.05	27.37	29.59
86	23.34	21.29	20.37	18.91	16.10	13.52	11.43	19.27	20.28	23.02
87	17.68	16.10	14.30	13.13	11.39	10.29	5.51	13.14	14.37	16.67
88	12.05	10.96	9.71	8.47	6.87	6.71	3.19	7.90	9.27	11.20
89	6.46	5.87	5.18	4.49	3.48	2.66	1.16	3.90	5.15	6.29
90	0.89	0.79	0.67	0.57	0.50	0.47	0.54	1.39	1.39	1.44

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68
1	1124.36	1124.23	1124.11	1124.00	1123.91	1123.82	1123.76	1123.70	1123.66	1123.64
2	1122.18	1121.98	1121.82	1121.69	1121.60	1121.56	1121.55	1121.58	1121.65	1121.60
3	1120.25	1119.92	1119.62	1119.38	1119.18	1119.04	1118.97	1119.02	1119.13	1119.30
4	1117.66	1117.34	1117.11	1116.97	1116.91	1116.78	1116.65	1116.59	1116.59	1116.82
5	1114.58	1114.27	1114.08	1114.01	1113.99	1114.03	1114.17	1114.30	1114.30	1114.39
6	1111.14	1110.85	1110.72	1110.72	1110.80	1111.01	1111.30	1111.60	1112.02	1112.12
7	1107.29	1107.07	1107.06	1107.14	1107.38	1107.78	1108.21	1108.80	1109.29	1109.87
8	1103.05	1102.91	1103.01	1103.25	1103.73	1104.28	1104.99	1105.72	1106.57	1107.28
9	1098.43	1098.40	1098.62	1099.08	1099.78	1100.60	1101.56	1102.58	1103.61	1104.66

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CANDELA TABULATION - (Cont.)

10	1093.41	1093.54	1093.91	1094.63	1095.55	1096.72	1097.94	1099.28	1100.65	1101.94
11	1087.98	1088.29	1088.88	1089.88	1091.08	1092.56	1094.19	1095.84	1097.50	1099.11
12	1082.14	1082.63	1083.52	1084.81	1086.38	1088.18	1090.19	1092.27	1092.96	1093.37
13	1075.92	1076.62	1077.83	1079.45	1081.46	1083.62	1085.93	1086.25	1086.78	1087.44
14	1069.31	1070.26	1071.82	1073.80	1076.21	1078.89	1079.13	1079.78	1080.59	1081.53
15	1062.32	1063.54	1065.49	1067.88	1070.73	1071.60	1072.16	1073.06	1074.22	1075.48
16	1055.02	1056.53	1058.80	1061.73	1063.65	1064.13	1065.06	1066.31	1067.83	1069.39
17	1047.26	1049.21	1051.92	1055.24	1055.63	1056.46	1057.77	1059.40	1061.26	1063.26
18	1039.18	1041.50	1044.72	1046.85	1047.31	1048.54	1050.29	1052.39	1054.68	1056.99
19	1030.76	1033.46	1037.16	1037.99	1038.86	1040.46	1042.70	1045.24	1047.95	1050.74
20	1021.96	1025.18	1028.34	1028.82	1030.23	1032.24	1034.90	1037.96	1041.18	1044.36
21	1012.80	1016.53	1018.60	1019.39	1021.28	1023.85	1026.97	1030.60	1034.28	1037.97
22	1003.30	1007.47	1008.52	1009.75	1012.07	1015.27	1018.94	1023.06	1027.34	1031.24
23	993.48	997.64	998.06	999.86	1002.69	1006.50	1010.78	1015.47	1019.81	1022.19
24	983.31	986.56	987.37	989.69	993.14	997.51	1002.53	1007.61	1010.33	1013.17
25	972.79	975.16	976.46	979.28	983.44	988.37	994.03	997.59	1000.78	1004.06
26	961.97	963.45	965.31	968.69	973.43	979.09	984.19	987.45	991.11	994.94
27	950.86	951.47	953.85	957.95	963.25	969.71	973.39	977.26	981.42	985.81
28	938.49	939.24	942.14	946.88	952.93	958.61	962.34	966.88	971.63	976.55
29	925.50	926.73	930.19	935.59	942.56	946.89	951.27	956.47	961.85	967.31
30	912.26	913.94	918.04	924.13	930.99	934.95	940.16	945.90	951.94	957.99
31	898.74	900.91	905.66	912.53	918.26	923.00	928.89	935.28	942.05	948.59
32	884.83	887.64	893.08	900.73	905.38	911.05	917.50	924.57	932.04	939.22
33	870.78	874.05	880.31	887.73	892.41	898.73	905.96	913.86	922.04	928.53
34	856.46	860.28	867.34	873.89	879.34	886.36	894.42	903.14	911.18	916.61
35	841.79	846.37	853.98	859.91	866.12	873.89	882.84	892.33	898.59	904.71
36	826.89	832.24	840.59	845.76	852.80	861.43	871.18	879.48	886.01	892.69
37	811.80	817.88	825.67	831.37	839.36	848.92	859.38	866.20	873.37	880.70
38	796.42	803.19	810.51	816.92	825.85	836.16	845.31	852.86	860.75	868.71
39	780.76	788.46	795.20	802.50	812.29	823.43	831.19	839.54	848.10	856.66
40	765.02	773.42	779.58	787.91	798.50	809.11	817.10	826.19	835.46	844.65
41	749.05	757.88	763.94	773.17	784.68	794.10	803.05	812.84	822.79	832.61
42	732.80	741.23	748.10	758.33	770.77	779.12	788.77	799.33	810.06	820.49
43	716.37	724.45	732.14	743.48	754.86	764.11	774.53	785.86	797.40	807.94
44	699.86	707.48	716.23	728.43	738.89	748.95	760.27	772.30	784.64	793.58
45	683.24	690.40	700.15	713.28	722.79	733.80	746.05	758.79	769.90	779.17
46	666.26	673.29	683.94	696.57	706.70	718.62	731.78	744.67	754.97	764.80
47	648.89	656.12	667.66	679.63	690.62	703.46	717.57	729.17	740.02	750.48
48	630.65	638.75	651.37	662.60	674.52	688.29	702.49	713.64	725.12	736.13
49	612.26	621.26	635.25	645.56	658.43	673.14	686.28	698.11	710.20	721.81
50	593.76	603.90	617.40	628.49	642.37	657.81	670.04	682.62	695.27	707.53
51	575.14	586.43	599.32	611.41	626.34	640.83	653.90	667.12	680.40	693.23
52	556.59	568.92	581.26	594.44	610.38	623.90	637.74	651.71	665.57	678.93
53	537.87	551.39	563.24	577.62	593.69	607.10	621.69	636.31	650.81	663.38
54	519.08	533.61	545.32	560.73	576.14	590.43	605.69	620.96	636.11	644.10
55	500.32	514.78	527.49	543.91	558.67	573.74	589.78	605.68	616.59	624.81
56	481.69	495.75	509.69	526.61	541.23	557.14	573.91	588.13	597.10	605.59
57	463.11	476.74	491.88	508.35	523.93	540.66	558.07	568.43	577.71	586.43
58	444.45	457.90	474.25	490.25	506.76	524.35	539.16	548.82	558.37	567.33
59	426.05	439.36	456.87	472.39	489.73	508.09	519.19	529.27	539.07	548.28
60	406.87	420.77	438.34	454.65	472.82	489.15	499.37	509.84	519.87	529.30
61	387.24	402.39	419.70	437.00	456.06	469.07	479.67	490.48	500.76	510.40
62	367.73	384.26	401.29	419.45	437.99	449.12	460.10	471.17	481.70	491.56
63	348.60	366.35	383.16	402.04	417.69	429.34	440.67	451.96	462.70	470.37
64	329.74	347.76	365.30	385.03	397.71	409.67	421.35	432.86	441.77	447.78
65	311.20	329.18	347.63	365.98	377.96	390.18	402.19	412.85	419.39	425.26

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CANDELA TABULATION - (Cont.)

66	293.02	310.96	330.25	345.95	358.40	370.88	383.19	390.72	397.09	402.81
67	275.24	293.02	313.13	326.22	339.10	351.77	361.75	368.74	374.89	380.44
68	257.67	275.44	294.07	306.81	319.97	332.34	340.08	346.87	352.79	358.13
69	239.74	258.22	274.69	287.72	301.03	311.12	318.59	325.11	330.80	335.88
70	222.32	241.45	255.66	268.95	281.62	290.13	297.27	303.49	308.90	313.70
71	205.66	223.83	237.05	250.48	261.26	269.36	276.10	281.99	287.07	291.58
72	189.60	205.68	218.82	231.85	241.20	248.77	255.10	260.60	265.32	270.54
73	174.17	188.06	200.99	212.69	221.43	228.39	234.26	239.32	245.61	252.50
74	159.34	171.13	183.55	193.93	201.93	208.23	213.56	220.53	227.98	234.51
75	143.48	154.77	166.15	175.55	182.72	188.27	195.33	203.43	210.42	216.55
76	128.47	138.98	149.33	157.57	163.77	170.29	178.94	186.43	192.93	198.64
77	114.25	123.98	133.06	139.96	145.75	154.79	162.68	169.52	175.49	180.78
78	100.76	109.79	117.25	122.70	131.36	139.48	146.55	152.71	158.11	162.95
79	88.15	96.20	101.91	108.89	117.19	124.32	130.52	135.97	140.80	145.18
80	77.04	83.23	88.12	96.18	103.24	109.32	114.61	119.32	123.54	127.43
81	66.59	70.83	77.11	83.73	89.48	94.45	98.80	102.74	106.33	110.19
82	56.76	60.81	66.39	71.53	75.90	79.70	83.07	87.49	93.15	98.28
83	47.54	51.78	55.94	59.54	62.47	65.65	71.38	76.85	81.86	86.41
84	39.79	43.01	45.70	47.72	51.47	56.52	61.50	66.26	70.61	74.56
85	32.27	34.45	35.77	39.22	43.19	47.47	51.68	55.71	59.38	62.73
86	24.92	26.58	28.89	31.73	34.98	38.47	41.91	45.19	48.19	50.92
87	18.36	20.27	22.09	24.31	26.82	29.52	32.17	34.70	37.01	39.12
88	12.68	14.02	15.34	16.93	18.70	20.60	22.45	24.23	25.85	27.33
89	7.07	7.81	8.63	9.58	10.62	11.70	12.76	13.77	14.70	15.56
90	1.49	1.63	1.93	2.25	2.54	2.82	3.08	3.33	3.56	3.78

**Vert.
Angles**

Horizontal Angles

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68
1	1123.63	1123.64	1123.66	1123.70	1123.75	1123.73	1123.73	1123.74	1123.76	1123.80
2	1121.59	1121.60	1121.64	1121.72	1121.82	1121.78	1121.77	1121.79	1121.84	1121.92
3	1119.52	1119.56	1119.63	1119.74	1119.90	1119.84	1119.82	1119.85	1119.91	1119.85
4	1117.12	1117.50	1117.62	1117.76	1117.97	1117.89	1117.87	1117.88	1117.74	1117.67
5	1114.71	1115.19	1115.61	1115.79	1116.04	1115.94	1115.91	1115.75	1115.58	1115.42
6	1112.32	1112.87	1113.56	1113.81	1114.12	1113.99	1113.93	1113.62	1113.38	1112.99
7	1110.10	1110.55	1111.36	1111.84	1112.19	1112.04	1111.85	1111.49	1111.01	1110.56
8	1107.89	1108.26	1109.15	1109.87	1110.26	1110.09	1109.77	1109.32	1108.65	1108.01
9	1105.62	1106.10	1106.94	1107.90	1108.34	1108.14	1107.69	1107.03	1106.26	1105.44
10	1103.11	1103.94	1104.73	1105.93	1106.41	1106.19	1105.60	1104.75	1103.79	1102.75
11	1099.49	1099.77	1099.87	1100.90	1101.31	1101.21	1100.88	1100.47	1100.22	1099.92
12	1093.92	1094.46	1094.58	1095.71	1096.21	1096.08	1095.65	1095.12	1094.74	1094.24
13	1088.21	1088.98	1089.35	1090.46	1091.11	1090.91	1090.36	1089.72	1089.10	1088.36
14	1082.50	1083.51	1084.12	1085.22	1086.01	1085.75	1085.08	1084.32	1083.47	1082.50
15	1076.76	1078.03	1078.88	1079.98	1080.92	1080.59	1079.80	1078.92	1077.82	1076.53
16	1070.93	1072.51	1073.64	1074.75	1075.82	1075.43	1074.52	1073.47	1072.04	1070.51
17	1065.11	1066.89	1068.40	1069.51	1070.72	1070.27	1069.25	1067.93	1066.29	1064.44
18	1059.27	1061.27	1063.09	1064.28	1065.62	1065.11	1063.96	1062.41	1060.51	1058.25
19	1053.31	1055.65	1057.70	1059.05	1060.52	1059.95	1058.63	1056.90	1054.61	1052.07
20	1047.37	1050.01	1052.31	1053.83	1055.42	1054.79	1053.30	1051.36	1048.71	1045.74
21	1041.41	1043.41	1045.03	1046.10	1047.61	1047.11	1046.04	1044.80	1042.80	1039.38
22	1033.23	1035.14	1037.00	1038.18	1039.80	1039.23	1038.01	1036.49	1034.62	1032.68
23	1024.61	1026.87	1028.96	1030.27	1031.99	1031.36	1029.98	1028.19	1025.98	1023.62
24	1016.00	1018.59	1020.90	1022.37	1024.18	1023.47	1021.92	1019.88	1017.35	1014.57
25	1007.27	1010.22	1012.78	1014.49	1016.37	1015.55	1013.82	1011.46	1008.58	1005.43
26	998.56	1001.86	1004.67	1006.61	1008.57	1007.64	1005.72	1003.06	999.82	996.28

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CANDELA TABULATION - (Cont.)

27	989.85	993.50	996.57	998.74	1000.76	999.73	997.62	994.67	991.07	987.12
28	981.05	985.14	988.47	990.86	992.95	991.81	989.52	986.28	982.21	977.79
29	972.25	976.71	980.38	982.99	985.14	983.90	981.42	977.81	973.33	968.47
30	963.46	968.27	972.29	975.12	977.33	975.99	973.32	969.33	964.45	959.07
31	954.64	959.51	962.59	964.94	966.95	965.77	963.60	960.53	955.55	949.59
32	944.69	948.56	951.90	954.51	956.58	955.32	952.92	949.60	945.59	940.13
33	933.33	937.58	941.21	944.08	946.20	944.87	942.25	938.64	934.28	929.44
34	921.97	926.56	930.53	933.65	935.83	934.42	931.59	927.64	922.95	917.58
35	910.49	915.54	919.84	923.22	925.45	923.98	920.93	916.64	911.51	905.73
36	899.03	904.54	909.16	912.78	915.08	913.53	910.28	905.65	900.09	893.76
37	887.58	893.55	898.48	902.34	904.70	903.09	899.63	894.66	888.70	881.80
38	876.07	882.49	887.76	891.85	894.32	892.62	888.93	883.61	877.24	869.85
39	864.54	871.42	877.03	881.36	883.95	882.15	878.24	872.54	865.73	857.83
40	853.02	860.36	866.32	870.88	873.57	871.69	867.55	861.49	854.24	845.85
41	841.53	849.26	854.24	858.18	860.70	858.99	855.45	850.40	842.77	833.87
42	829.43	835.81	841.12	845.22	847.82	846.02	842.27	836.91	830.70	821.83
43	815.55	822.33	828.00	832.26	834.95	833.04	829.09	823.40	816.79	809.34
44	801.69	808.84	814.89	819.31	822.08	820.07	815.91	809.90	802.91	794.99
45	787.86	795.37	801.77	806.35	809.20	807.10	802.72	796.41	789.06	780.58
46	773.96	781.91	788.62	793.40	796.33	794.13	789.51	782.94	775.13	766.20
47	760.09	768.45	775.47	780.46	783.46	781.17	776.30	769.48	761.23	751.86
48	746.24	754.99	762.34	767.51	770.58	768.20	763.10	756.00	747.36	737.43
49	732.42	741.52	749.21	754.57	757.71	755.23	749.91	742.51	733.52	723.05
50	718.57	728.07	736.08	741.64	744.83	742.26	736.72	729.03	719.63	708.70
51	704.74	714.51	719.77	723.63	726.24	724.24	720.37	715.42	705.74	694.35
52	689.60	695.68	701.05	705.02	707.64	705.61	701.63	696.54	690.53	680.03
53	670.58	676.89	682.33	686.41	689.05	686.98	682.89	677.69	671.43	664.46
54	651.58	658.08	663.61	667.78	670.45	668.35	664.15	658.83	652.37	645.19
55	632.57	639.28	644.89	649.16	651.85	649.71	645.40	639.97	633.35	625.90
56	613.60	620.50	626.18	630.54	633.26	631.08	626.67	621.14	614.37	606.69
57	594.66	601.74	607.50	611.93	614.66	612.45	607.96	602.33	595.42	587.54
58	575.76	583.01	588.83	593.32	596.07	593.82	589.25	583.55	576.51	568.45
59	556.89	564.31	570.17	574.72	577.47	575.20	570.56	564.79	557.61	549.37
60	538.03	545.63	551.53	556.11	558.87	556.58	551.88	546.06	538.73	530.37
61	519.21	526.33	530.28	533.61	535.92	534.07	530.63	526.73	519.89	511.42
62	498.52	503.51	507.45	510.71	512.96	511.16	507.81	503.97	499.23	492.55
63	475.81	480.71	484.63	487.81	490.00	488.26	485.02	481.23	476.61	471.40
64	453.14	457.94	461.81	464.91	467.04	465.36	462.24	458.53	454.04	448.90
65	430.51	435.19	439.00	442.02	444.08	442.47	439.46	435.85	431.49	426.47
66	407.92	412.48	416.19	419.14	421.12	419.59	416.69	413.20	408.97	404.12
67	385.37	389.78	393.40	396.26	398.16	396.71	393.94	390.58	386.51	381.85
68	362.86	367.11	370.62	373.38	375.20	373.83	371.20	367.98	364.09	359.63
69	340.40	344.47	347.86	350.51	352.24	350.96	348.47	345.41	341.73	337.46
70	317.98	321.84	325.10	327.64	329.29	328.09	325.76	322.84	319.41	315.34
71	295.60	300.70	305.17	308.41	310.26	308.86	305.84	301.72	297.14	293.29
72	276.76	282.08	286.36	289.45	291.23	289.91	287.02	283.07	278.27	272.27
73	258.41	263.49	267.55	270.50	272.20	270.95	268.20	264.43	259.85	254.16
74	240.10	244.92	248.75	251.55	253.18	252.00	249.40	245.82	241.47	236.10
75	221.82	226.36	229.97	232.61	234.15	233.06	230.60	227.23	223.12	218.08
76	203.57	207.82	211.19	213.67	215.12	214.11	211.81	208.65	204.81	200.11
77	185.35	189.30	192.42	194.72	196.10	195.17	193.03	190.10	186.52	182.18
78	167.16	170.79	173.66	175.79	177.07	176.23	174.26	171.55	168.27	164.30
79	149.00	152.30	154.91	156.85	158.04	157.29	155.49	153.03	150.04	146.46
80	130.86	133.82	136.17	137.91	139.01	138.35	136.73	134.51	131.84	128.66
81	115.07	119.12	122.21	124.37	125.56	124.77	122.72	119.76	115.97	111.35
82	102.67	106.31	109.09	111.04	112.10	111.40	109.56	106.89	103.48	99.32

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CANDELA TABULATION - (Cont.)

83	90.30	93.52	95.98	97.71	98.65	98.03	96.39	94.03	91.01	87.33
84	77.93	80.74	82.87	84.38	85.20	84.66	83.23	81.18	78.56	75.35
85	65.59	67.96	69.77	71.05	71.74	71.29	70.08	68.34	66.12	63.40
86	53.25	55.19	56.67	57.72	58.29	57.92	56.93	55.50	53.69	51.47
87	40.92	42.43	43.57	44.40	44.83	44.55	43.78	42.68	41.26	39.55
88	28.61	29.67	30.48	31.07	31.38	31.18	30.63	29.85	28.85	27.64
89	16.29	16.91	17.38	17.74	17.92	17.82	17.48	17.03	16.44	15.74
90	3.98	4.15	4.29	4.42	4.47	4.45	4.34	4.21	4.03	3.84

Vert. Angles	Horizontal Angles									
	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68	1125.68
1	1123.86	1123.92	1124.01	1124.10	1124.21	1124.32	1124.45	1124.59	1124.73	1124.89
2	1122.03	1122.06	1122.13	1122.22	1122.35	1122.51	1122.70	1122.92	1123.16	1123.43
3	1119.85	1119.89	1119.99	1120.06	1120.15	1120.30	1120.50	1120.76	1121.07	1121.42
4	1117.66	1117.55	1117.52	1117.56	1117.66	1117.78	1117.98	1118.27	1118.63	1119.07
5	1115.19	1115.05	1114.93	1114.88	1114.92	1115.02	1115.13	1115.36	1115.71	1116.18
6	1112.71	1112.40	1112.21	1111.99	1111.82	1111.81	1111.83	1111.98	1112.29	1112.77
7	1110.07	1109.70	1109.17	1108.81	1108.42	1108.20	1108.16	1108.22	1108.49	1108.97
8	1107.43	1106.64	1105.97	1105.28	1104.77	1104.35	1104.18	1104.13	1104.31	1104.75
9	1104.48	1103.51	1102.50	1101.60	1100.87	1100.22	1099.82	1099.63	1099.66	1100.04
10	1101.53	1100.16	1098.89	1097.77	1096.65	1095.77	1095.06	1094.70	1094.63	1094.96
11	1098.33	1096.72	1095.18	1093.61	1092.16	1090.98	1090.02	1089.50	1089.24	1089.45
12	1093.79	1093.18	1091.17	1089.21	1087.42	1085.90	1084.67	1083.84	1083.40	1083.44
13	1087.71	1087.22	1086.90	1084.62	1082.47	1080.53	1078.96	1077.80	1077.14	1077.03
14	1081.61	1080.82	1080.15	1079.83	1077.21	1074.86	1072.93	1071.41	1070.53	1070.28
15	1075.31	1074.15	1073.19	1072.59	1071.72	1068.93	1066.58	1064.70	1063.59	1063.12
16	1068.99	1067.44	1066.14	1065.20	1064.68	1062.73	1059.87	1057.68	1056.26	1055.46
17	1062.47	1060.57	1058.94	1057.61	1056.70	1056.18	1052.93	1050.26	1048.36	1047.40
18	1055.93	1053.63	1051.54	1049.75	1048.40	1047.80	1045.60	1042.45	1040.29	1039.11
19	1049.26	1046.58	1044.04	1041.72	1039.97	1038.92	1037.98	1034.47	1031.92	1030.41
20	1042.55	1039.40	1036.31	1033.53	1031.34	1029.77	1029.26	1026.19	1023.10	1021.28
21	1035.76	1032.12	1028.44	1025.16	1022.41	1020.48	1019.59	1017.48	1013.94	1011.82
22	1028.93	1024.67	1020.45	1016.61	1013.31	1010.93	1009.51	1008.42	1004.46	1001.96
23	1021.47	1017.17	1012.31	1007.90	1004.03	1001.04	999.14	998.63	994.60	991.68
24	1011.95	1009.35	1004.10	999.00	994.57	990.94	988.55	987.57	984.38	981.13
25	1002.33	999.25	995.70	989.97	984.84	980.66	977.69	976.18	973.89	970.29
26	992.61	989.00	985.86	980.80	974.95	970.16	966.55	964.59	963.15	959.01
27	982.84	978.73	975.01	971.37	964.90	959.40	955.19	952.79	952.04	947.43
28	972.98	968.29	963.95	960.27	954.68	948.41	943.72	940.65	939.81	935.53
29	963.13	957.82	952.86	948.60	944.28	937.31	931.87	928.26	926.97	923.40
30	953.14	947.22	941.63	936.67	932.76	926.07	919.78	915.67	913.93	910.87
31	943.17	936.58	930.33	924.66	920.10	914.56	907.57	902.82	900.51	898.09
32	933.08	925.87	918.98	912.60	907.37	902.78	895.21	889.69	886.86	885.03
33	922.98	915.13	907.45	900.30	894.37	889.91	882.59	876.32	873.02	871.54
34	912.11	904.34	895.90	887.98	881.27	876.20	869.77	862.83	858.79	857.75
35	899.62	893.49	884.23	875.62	868.07	862.27	856.67	849.14	844.32	843.13
36	887.14	880.72	872.51	863.12	854.83	848.12	843.63	835.12	829.70	827.89
37	874.60	867.54	860.68	850.59	841.45	833.84	828.80	821.02	814.82	812.42
38	862.09	854.29	846.77	837.92	827.99	819.54	813.64	806.72	799.68	796.84
39	849.48	841.03	832.86	825.21	814.32	805.19	798.41	792.17	784.43	781.01
40	836.88	827.71	818.87	810.95	800.63	790.54	782.99	777.47	769.03	764.87
41	824.27	814.42	804.86	796.14	786.93	775.84	767.38	762.27	753.32	748.48
42	811.64	801.09	790.76	781.27	772.96	761.08	751.66	745.78	737.42	731.91
43	799.06	787.82	776.71	766.31	757.17	746.26	735.88	729.08	721.39	715.11

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CANDELA TABULATION - (Cont.)

44	786.37	774.47	762.57	751.37	741.40	731.23	720.11	712.25	705.14	698.00
45	771.61	761.17	748.47	736.48	725.59	716.18	704.07	695.36	688.64	680.97
46	756.66	747.05	734.33	721.53	709.77	699.82	687.94	678.33	672.19	663.46
47	741.67	731.43	720.25	706.64	693.97	683.18	671.78	661.13	655.27	645.88
48	726.74	715.87	705.28	691.70	678.11	666.43	655.64	643.91	637.02	628.17
49	711.83	700.36	689.09	676.80	662.33	649.67	639.53	626.73	618.79	610.27
50	696.93	684.89	672.86	661.69	646.60	632.91	621.86	609.31	600.52	592.26
51	682.07	669.39	656.74	644.74	630.88	616.21	604.07	591.97	581.95	573.90
52	667.23	653.98	640.63	627.82	615.20	599.58	586.43	574.51	563.41	555.50
53	652.43	638.58	624.59	610.95	598.58	582.98	568.65	556.98	544.64	537.06
54	637.67	623.22	608.53	594.17	580.93	566.30	550.99	539.21	525.91	518.49
55	618.16	607.93	592.53	577.41	563.36	549.73	533.40	520.46	507.28	499.33
56	598.67	590.32	576.60	560.74	545.86	532.64	515.81	501.59	488.62	479.41
57	579.26	570.54	560.75	544.15	528.51	514.27	498.32	482.95	469.84	459.50
58	559.92	550.86	541.85	527.68	511.13	495.98	480.93	464.47	451.12	439.54
59	540.61	531.28	521.82	511.20	493.87	477.80	463.61	446.04	432.57	419.65
60	521.39	511.81	501.93	492.08	476.66	459.78	444.92	427.67	413.36	399.78
61	502.25	492.41	482.16	471.87	459.63	441.89	426.07	409.48	393.85	380.06
62	483.17	473.07	462.50	451.82	441.55	424.16	407.48	391.52	374.56	360.50
63	464.17	453.85	442.98	431.97	421.31	406.63	388.95	373.85	355.56	341.08
64	443.29	434.73	423.59	412.32	401.18	389.24	370.63	354.98	336.81	321.89
65	421.00	414.65	404.36	392.83	381.28	369.86	352.60	335.90	318.36	303.01
66	398.74	392.52	385.27	373.44	361.57	349.74	334.79	317.18	300.26	284.38
67	376.58	370.54	363.84	354.21	342.11	329.92	317.21	298.75	282.50	265.50
68	354.52	348.69	342.20	334.67	322.89	310.45	298.02	280.63	264.81	247.10
69	332.57	326.97	320.74	313.45	303.92	291.28	278.59	262.87	246.23	229.24
70	310.71	305.39	299.43	292.45	284.50	272.39	259.47	245.49	228.25	212.04
71	288.92	283.93	278.27	271.69	264.08	253.82	240.76	227.51	210.72	195.60
72	267.23	262.58	257.27	251.13	243.96	235.11	222.48	209.27	193.84	179.90
73	247.52	241.31	236.43	230.79	224.13	215.84	204.60	191.56	177.62	164.69
74	229.84	222.51	215.76	210.65	204.57	196.97	187.08	174.37	161.98	149.04
75	212.24	205.38	197.54	190.70	185.27	178.54	169.53	157.79	145.94	134.27
76	194.69	188.35	181.13	172.69	166.23	160.48	152.52	141.95	130.84	120.30
77	177.21	171.43	164.85	157.15	148.17	142.75	136.02	126.76	116.40	107.07
78	159.79	154.60	148.69	141.77	133.72	125.37	119.99	112.24	102.65	94.54
79	142.43	137.85	132.63	126.56	119.47	111.37	104.43	98.33	89.79	82.77
80	125.12	121.17	116.68	111.48	105.42	98.46	90.39	85.04	78.32	71.85
81	107.87	104.56	100.83	96.53	91.55	85.79	79.07	72.30	67.53	61.86
82	94.56	89.25	85.07	81.71	77.84	73.35	68.05	62.00	57.38	52.81
83	83.11	78.40	73.19	67.55	64.27	61.11	57.30	52.71	47.88	44.59
84	71.69	67.59	63.07	58.16	53.07	49.04	46.76	43.70	40.01	36.67
85	60.30	56.83	53.00	48.84	44.52	40.32	36.54	34.91	32.39	29.37
86	48.93	46.10	42.97	39.57	36.05	32.61	29.51	26.86	24.97	22.83
87	37.59	35.39	32.98	30.35	27.62	24.97	22.56	20.49	18.38	16.53
88	26.26	24.71	23.02	21.16	19.25	17.37	15.67	14.19	12.71	11.11
89	14.93	14.04	13.07	12.00	10.90	9.81	8.81	7.93	7.11	6.27
90	3.62	3.38	3.13	2.85	2.56	2.27	1.98	1.69	1.55	1.48

Vert. Angles	Horizontal Angles		
	<u>350</u>	<u>355</u>	<u>360</u>
0	1125.68	1125.68	1125.68
1	1125.05	1125.21	1125.38
2	1123.72	1124.03	1124.36
3	1121.83	1122.28	1122.76
4	1119.58	1120.16	1120.80

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CANDELA TABULATION - (Cont.)

5	1116.76	1117.45	1118.25
6	1113.40	1114.19	1115.13
7	1109.66	1110.55	1111.64
8	1105.47	1106.44	1107.67
9	1100.74	1101.78	1103.14
10	1095.69	1096.82	1098.33
11	1090.13	1091.29	1092.92
12	1084.05	1085.23	1086.96
13	1077.58	1078.79	1080.64
14	1070.78	1072.03	1074.02
15	1063.50	1064.72	1066.79
16	1055.63	1056.79	1058.94
17	1047.50	1048.69	1050.95
18	1039.06	1040.22	1042.57
19	1030.13	1031.19	1033.61
20	1020.86	1021.93	1024.48
21	1011.17	1012.13	1014.72
22	1001.02	1001.87	1004.53
23	990.57	991.43	994.24
24	979.81	980.57	983.42
25	968.62	969.21	972.12
26	957.03	957.48	960.41
27	945.13	945.48	948.50
28	932.98	933.24	936.34
29	920.46	920.49	923.59
30	907.56	907.40	910.50
31	894.38	894.04	897.18
32	880.87	880.34	883.58
33	866.99	866.34	869.67
34	852.86	851.97	855.27
35	838.38	837.25	840.63
36	823.58	822.28	825.70
37	808.62	807.06	810.45
38	793.40	791.52	794.90
39	777.85	775.70	779.12
40	762.00	759.59	763.08
41	745.90	743.15	746.52
42	729.56	726.35	729.72
43	712.86	709.48	712.86
44	696.12	692.16	695.40
45	678.94	674.61	677.84
46	661.20	656.75	659.93
47	642.85	638.80	641.92
48	624.53	620.57	623.60
49	605.89	601.91	604.85
50	586.79	583.28	586.14
51	567.95	564.32	567.06
52	548.65	545.02	547.60
53	529.18	525.55	528.04
54	509.57	505.95	508.33
55	489.91	486.16	488.30
56	470.12	466.23	468.22
57	450.28	446.05	447.92
58	430.28	425.78	427.65
59	410.27	405.49	407.19
60	390.39	385.22	386.59

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

61	370.55	364.74	365.85
62	350.69	344.32	345.25
63	331.08	324.25	324.89
64	311.84	304.15	304.50
65	292.31	284.02	284.71
66	272.66	264.35	264.93
67	253.27	245.27	245.70
68	234.71	226.82	227.15
69	216.79	209.17	209.57
70	199.58	192.39	192.59
71	183.33	176.40	176.51
72	167.84	161.31	161.42
73	153.23	147.07	146.90
74	139.10	133.50	133.07
75	125.25	120.50	120.03
76	112.29	108.32	107.37
77	100.18	96.37	95.67
78	88.84	84.80	84.45
79	77.64	74.02	73.81
80	67.21	64.14	63.78
81	57.87	55.23	54.85
82	49.48	47.26	46.75
83	41.87	40.05	39.48
84	34.75	33.28	32.56
85	27.32	26.09	25.56
86	20.03	19.07	16.68
87	14.17	13.19	7.93
88	9.25	8.34	4.18
89	5.17	4.08	2.12
90	1.42	1.39	0.65

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	409.39	N.A.	13.10
0-30	868.32	N.A.	27.80
0-40	1421.37	N.A.	45.50
0-60	2507.15	N.A.	80.30
0-80	3071.08	N.A.	98.40
0-90	3121.34	N.A.	100.00
10-90	3015.25	N.A.	96.60
20-40	1011.98	N.A.	32.40
20-50	1585.42	N.A.	50.80
40-70	1457.14	N.A.	46.70
60-80	563.92	N.A.	18.10
70-80	192.57	N.A.	6.20
80-90	50.26	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3121.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.09
10-20	303.30
20-30	458.93
30-40	553.05
40-50	573.44
50-60	512.34
60-70	371.35
70-80	192.57
80-90	50.26
90-100	0.00
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

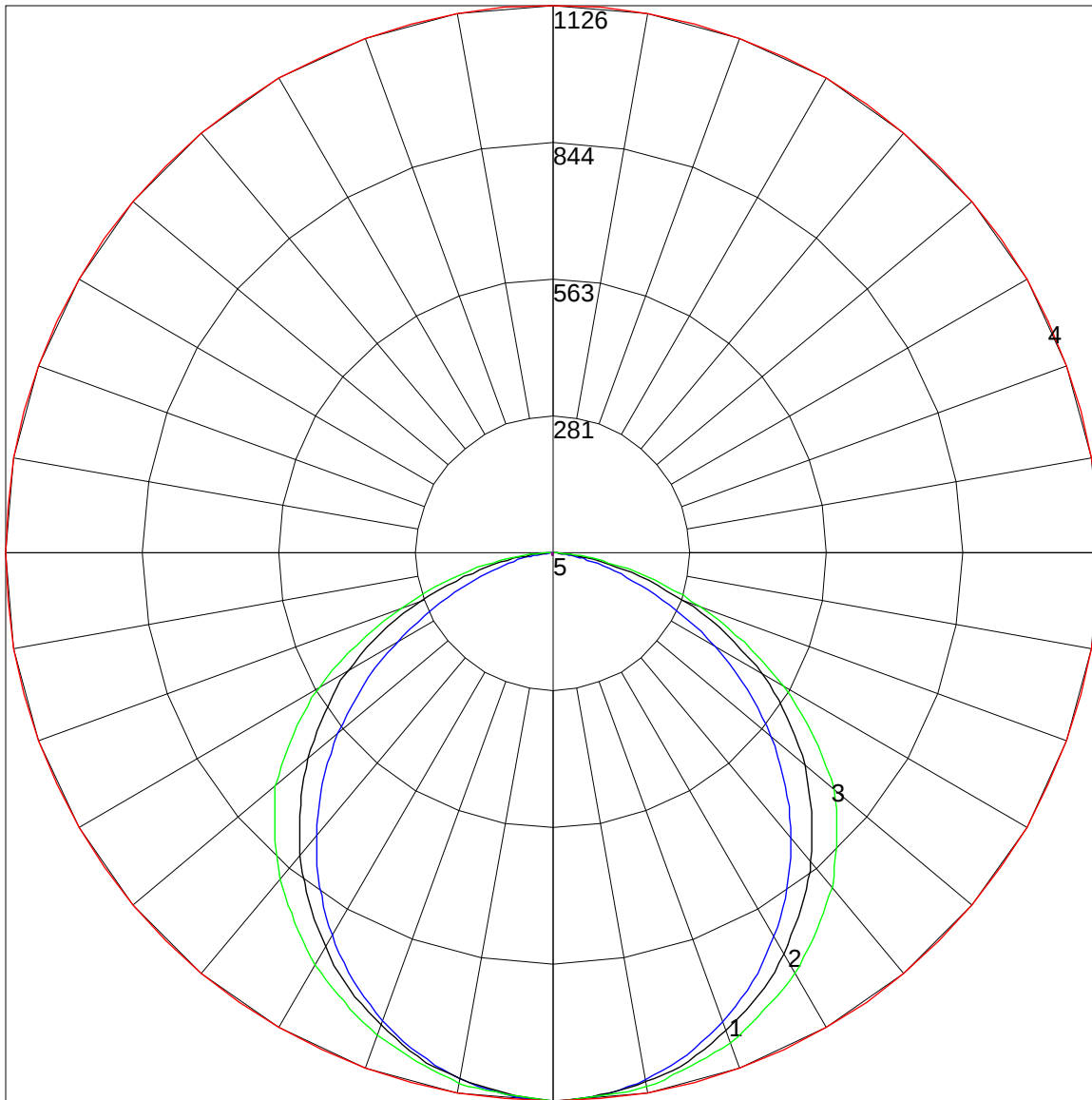
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : LR16W-22G-3100-40K-A40-UNI.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

POLAR GRAPH



Maximum Candela = 1125.68 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)

4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

5 - Horizontal Cone Through Vertical Angle (90)