



IES ROAD REPORT

PHOTOMETRIC FILENAME : CL03C-80-40K-LV-01_IESNA2002.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] BEST TEST SERVICE SHENZHEN CO.,LTD

[TESTDATE] 2017-09-26

[ISSUEDATE] 2017-09-26

[NEARFIELD]

[LAMPPOSITION]

[OTHER] GO-R5000_V2 SYSTEM

[MANUFAC] Supertek

[LUMINAIRE] CL03C-80-40k-lv-01

[LAMP] CL03C-80-40k-lv-01

[OTHER]

[OTHER] Gamma(deg) Fz(lm) Ft(lm) %Lum %Lamp

[OTHER] 0- 10 55.85 55.85 0.65 0.65

[OTHER] 10- 20 192.94 248.79 2.88 2.88

[OTHER] 20- 30 428.03 676.82 7.84 7.84

[OTHER] 30- 40 757.82 1434.63 16.61 16.61

[OTHER] 40- 50 1108.72 2543.36 29.45 29.45

[OTHER] 50- 60 1336.48 3879.84 44.92 44.92

[OTHER] 60- 70 1353.54 5233.38 60.59 60.59

[OTHER] 70- 80 1174.66 6408.05 74.20 74.20

[OTHER] 80- 90 874.58 7282.63 84.32 84.32

[OTHER] 90-100 561.43 7844.06 90.82 90.82

[OTHER] 100-110 328.45 8172.51 94.62 94.62

[OTHER] 110-120 199.38 8371.89 96.93 96.93

[OTHER] 120-130 129.77 8501.66 98.44 98.44

[OTHER] 130-140 77.14 8578.81 99.33 99.33

[OTHER] 140-150 39.41 8618.22 99.79 99.79

[OTHER] 150-160 14.88 8633.09 99.96 99.96

[OTHER] 160-170 3.24 8636.34 100.00 100.00

[OTHER] 170-180 0.43 8636.76 100.00 100.00

[OTHER]

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CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	8636.8 (1 lamp)
Total Lamp Lumens	8636.8
Luminaire Lumens	8637
Downward Total Efficiency	84 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	81.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.16
Maximum Candela	1648.08
Maximum Candela Angle	180H 54V
Maximum Candela (<90 Degrees Vertical)	1648.08
Maximum Candela Angle (<90 Degrees Vertical)	180H 54V
Maximum Candela At 90 Degrees Vertical	719.99 (8.3% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1074.39 (12.4% Lamp Lumens)
Cutoff Classification (deprecated)	Non-Cutoff

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	336.9	3.9	3.9
FM - Front-Medium (30-60)	1606.2	18.6	18.6
FH - Front-High (60-80)	1272.9	14.7	14.7
FVH - Front-Very High (80-90)	434.8	5.0	5.0
BL - Back-Low (0-30)	339.9	3.9	3.9
BM - Back-Medium (30-60)	1596.8	18.5	18.5
BH - Back-High (60-80)	1255.3	14.5	14.5
BVH - Back-Very High (80-90)	439.8	5.1	5.1
UL - Uplight-Low (90-100)	561.4	6.5	6.5
UH - Uplight-High (100-180)	792.7	9.2	9.2
Total	8636.7	99.9	100.0
BUG Rating	B3-U4-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08
1	572.46	572.44	572.11	570.86	571.16	570.40	570.34	569.53	569.70	569.35
2	574.54	574.06	573.67	572.24	572.33	571.98	570.99	570.10	572.72	575.56
3	575.28	575.82	575.21	574.11	574.60	573.35	571.85	570.07	569.47	570.73
4	595.66	588.93	577.99	577.20	577.83	576.39	573.94	571.22	569.97	572.17
5	596.68	581.61	580.92	580.82	580.87	579.45	576.61	573.69	571.67	588.16
6	603.64	589.60	583.88	584.22	584.86	583.16	580.98	577.20	573.72	577.95
7	603.60	594.12	586.38	587.70	621.91	593.19	619.36	581.16	576.94	581.86
8	599.70	589.27	587.76	590.70	596.67	596.54	600.68	587.49	582.91	588.37
9	597.97	594.58	590.36	593.06	595.83	595.69	597.10	596.49	601.97	594.88
10	606.56	601.20	596.84	599.96	597.61	598.29	616.93	607.11	603.54	601.40
11	614.95	610.62	607.45	655.37	606.93	605.79	663.67	617.41	604.75	608.85
12	638.55	617.42	649.00	639.63	618.35	617.24	623.92	628.22	620.14	624.01
13	653.75	625.79	662.76	636.44	631.48	633.07	643.49	641.70	647.31	644.17
14	643.53	638.64	648.75	651.83	664.81	654.62	723.36	661.40	690.59	665.43
15	656.35	657.57	666.13	670.11	669.17	683.75	679.00	681.88	683.07	686.95
16	685.17	681.19	686.77	691.96	688.87	710.51	699.04	704.41	745.54	713.21
17	720.35	704.33	710.93	714.51	713.05	721.82	725.93	726.41	747.99	742.16
18	714.69	731.14	743.48	733.56	739.97	743.17	754.54	749.59	764.92	770.66
19	740.44	755.57	770.90	755.93	772.28	764.02	782.40	805.90	793.27	797.31
20	768.97	778.39	790.72	779.34	796.66	788.67	808.58	800.81	823.51	824.31
21	793.46	804.56	816.51	805.39	822.82	816.52	834.34	827.32	847.19	849.97
22	819.60	835.72	845.72	836.10	850.13	855.41	867.07	859.35	874.55	880.39
23	850.77	867.36	876.25	868.78	879.36	888.86	888.61	914.35	903.13	911.55
24	881.30	894.28	902.73	898.60	903.45	909.20	918.08	923.59	930.25	943.64
25	912.33	919.67	930.42	928.17	930.13	939.48	950.44	950.06	961.23	974.02
26	937.87	944.71	957.24	958.01	956.37	971.78	983.14	983.58	994.36	998.72
27	964.57	969.42	982.94	986.43	988.65	1002.09	1014.76	1037.27	1021.71	1026.38
28	991.56	996.64	1014.68	1013.32	1020.07	1034.33	1044.55	1046.83	1051.98	1055.74
29	1018.03	1025.00	1043.80	1039.43	1052.76	1063.42	1072.84	1075.79	1085.99	1084.58
30	1046.07	1051.55	1069.54	1070.26	1083.29	1096.36	1100.98	1106.73	1119.52	1109.95
31	1072.68	1082.25	1096.64	1102.60	1115.87	1129.35	1136.37	1140.66	1153.04	1134.81
32	1104.47	1107.21	1129.29	1135.22	1148.50	1162.34	1171.89	1174.64	1186.56	1164.94
33	1139.39	1136.03	1162.06	1167.85	1181.12	1191.96	1207.42	1208.62	1215.05	1190.75
34	1174.34	1164.90	1194.84	1200.49	1206.79	1215.74	1233.74	1235.35	1240.49	1216.97
35	1209.30	1193.77	1219.37	1228.67	1232.36	1243.13	1255.78	1261.26	1270.48	1241.28
36	1235.21	1222.17	1250.01	1254.30	1262.37	1262.27	1281.33	1286.91	1295.00	1273.25
37	1264.18	1244.80	1275.02	1281.61	1292.77	1281.29	1299.61	1315.54	1317.34	1299.17
38	1295.38	1266.88	1294.87	1296.54	1314.67	1304.93	1322.20	1343.00	1336.28	1315.19
39	1326.88	1287.69	1315.45	1320.39	1334.30	1325.77	1343.86	1361.37	1361.03	1337.06
40	1350.05	1323.55	1346.90	1338.02	1352.27	1353.72	1359.97	1377.91	1383.44	1352.85
41	1380.21	1349.75	1385.44	1365.23	1372.19	1372.80	1374.05	1398.86	1409.91	1372.64
42	1413.61	1370.74	1403.39	1396.97	1398.64	1389.62	1389.85	1415.37	1431.50	1391.81
43	1438.49	1390.94	1416.89	1414.21	1430.16	1406.62	1412.48	1431.03	1441.96	1407.17
44	1459.89	1418.88	1432.81	1429.19	1439.49	1421.57	1420.73	1449.32	1457.44	1426.86
45	1486.63	1449.19	1454.16	1445.92	1448.83	1439.13	1436.52	1458.48	1467.57	1432.33
46	1501.75	1470.86	1469.04	1467.33	1470.25	1460.68	1451.50	1470.69	1485.21	1442.51
47	1523.87	1496.45	1483.56	1481.59	1482.87	1472.48	1463.66	1484.62	1497.35	1443.57
48	1542.52	1514.20	1498.09	1495.12	1488.77	1480.81	1472.38	1503.48	1509.36	1444.64
49	1551.75	1517.21	1510.37	1496.11	1486.02	1483.30	1478.24	1503.57	1508.89	1460.64
50	1556.36	1517.85	1524.36	1492.03	1479.87	1478.04	1478.31	1507.44	1506.22	1473.91
51	1560.24	1527.62	1537.67	1503.97	1482.37	1474.35	1498.92	1514.21	1510.52	1472.85
52	1569.10	1544.52	1541.60	1507.24	1497.28	1478.08	1493.41	1517.43	1516.01	1468.76

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53	1585.61	1564.10	1532.44	1493.77	1506.73	1471.56	1483.46	1522.95	1517.45	1459.49
54	1595.61	1538.42	1520.98	1489.25	1494.95	1476.33	1476.72	1522.69	1516.24	1452.42
55	1598.88	1524.95	1513.78	1479.85	1474.23	1477.64	1490.97	1509.84	1518.51	1448.80
56	1587.31	1533.79	1527.78	1479.13	1466.84	1467.27	1488.68	1503.73	1497.69	1452.32
57	1571.38	1537.17	1533.79	1478.28	1466.01	1463.62	1483.61	1501.69	1484.16	1450.95
58	1569.11	1533.63	1524.20	1485.40	1467.06	1448.90	1468.47	1493.72	1470.80	1434.50
59	1573.63	1524.37	1494.57	1466.51	1460.89	1432.83	1460.40	1491.01	1463.22	1410.78
60	1566.91	1513.42	1485.44	1453.63	1442.65	1425.05	1443.18	1474.83	1455.62	1390.29
61	1543.32	1502.76	1491.20	1446.60	1415.82	1408.82	1440.28	1452.76	1444.09	1377.04
62	1537.75	1486.37	1473.77	1410.27	1405.53	1402.59	1425.11	1433.02	1422.01	1367.45
63	1529.31	1470.09	1454.22	1380.43	1401.52	1385.17	1419.93	1418.82	1401.67	1365.56
64	1501.37	1454.95	1428.17	1357.60	1370.46	1370.63	1374.81	1409.04	1379.09	1351.29
65	1489.09	1423.48	1393.22	1332.94	1326.75	1324.33	1338.33	1381.07	1352.55	1321.94
66	1460.42	1385.99	1374.46	1315.78	1292.17	1289.29	1320.28	1343.27	1326.84	1294.09
67	1423.14	1370.85	1369.54	1283.53	1274.54	1272.62	1298.18	1310.96	1310.51	1267.74
68	1402.96	1353.08	1350.87	1256.61	1263.36	1263.30	1284.13	1292.72	1283.02	1250.95
69	1377.37	1340.25	1300.16	1229.86	1251.89	1229.91	1257.15	1277.17	1245.12	1228.52
70	1353.12	1311.40	1263.92	1210.82	1211.30	1195.80	1225.73	1243.57	1220.90	1209.97
71	1335.72	1283.27	1248.35	1187.64	1162.87	1169.42	1188.97	1214.91	1193.70	1172.85
72	1303.04	1252.86	1231.71	1164.07	1126.16	1137.80	1150.93	1187.15	1158.79	1135.73
73	1262.08	1213.19	1200.96	1136.44	1094.59	1098.70	1117.03	1157.51	1129.58	1098.93
74	1230.26	1174.52	1163.02	1096.17	1078.75	1079.01	1096.42	1113.85	1105.51	1077.10
75	1208.53	1151.54	1130.01	1060.80	1036.85	1059.43	1072.26	1078.33	1072.70	1054.62
76	1181.90	1126.11	1102.46	1031.86	1005.69	1022.60	1020.47	1052.81	1036.78	1023.72
77	1143.98	1099.60	1061.21	1003.56	965.83	982.19	978.11	1024.78	1010.01	993.80
78	1117.83	1052.22	1009.14	960.85	937.77	946.72	949.48	985.93	979.61	965.72
79	1081.13	1011.56	967.76	919.13	895.27	919.94	928.52	953.41	948.57	928.46
80	1034.63	972.43	938.95	881.23	865.16	882.73	888.82	924.33	909.47	899.04
81	982.78	937.19	907.70	850.50	839.24	846.26	853.85	883.73	878.59	871.87
82	953.76	903.48	877.23	819.20	817.05	805.89	819.40	843.20	846.24	836.80
83	925.69	880.93	854.36	789.68	774.23	778.98	786.56	804.69	808.69	804.47
84	898.43	853.12	822.70	755.54	738.19	741.93	752.01	778.75	776.73	775.41
85	862.14	813.32	781.95	720.00	696.07	707.68	727.87	743.86	753.12	744.07
86	821.59	778.13	743.03	691.97	664.09	679.68	692.19	711.60	718.30	709.92
87	785.10	746.55	712.01	664.08	638.62	654.14	664.22	688.52	687.64	679.34
88	752.29	711.91	682.48	632.45	612.60	622.91	635.22	657.79	658.03	648.17
89	720.53	680.21	654.05	600.50	586.59	592.48	604.69	621.00	629.59	618.53
90	688.04	653.89	615.12	568.53	560.57	562.08	574.11	589.73	599.24	591.47
91	665.76	624.14	588.68	536.57	525.40	531.68	543.54	558.51	568.88	560.46
92	638.11	596.30	562.67	514.24	489.09	504.42	516.61	531.38	538.52	532.07
93	606.25	568.51	529.66	493.42	469.25	482.58	494.24	505.09	507.93	504.53
94	574.23	540.71	503.78	470.45	451.06	462.40	474.55	481.29	479.93	478.91
95	542.22	514.42	481.65	447.13	433.24	444.72	451.65	458.41	456.08	450.65
96	521.92	487.50	463.40	425.23	415.25	421.64	429.80	434.35	434.83	426.48
97	500.54	468.62	442.70	406.42	394.17	400.06	408.24	412.59	415.00	403.43
98	477.85	449.25	423.71	386.62	374.86	379.15	387.47	392.30	393.69	384.19
99	456.49	423.76	403.92	370.49	357.17	361.92	366.89	372.88	369.86	366.75
100	430.88	404.47	381.60	354.21	338.69	343.52	349.06	354.83	351.44	347.08
101	407.08	389.28	362.92	338.52	322.76	327.73	334.21	337.03	336.44	328.01
102	390.50	373.01	346.04	321.08	311.17	312.91	320.50	321.57	322.72	312.13
103	372.98	352.33	331.08	305.42	298.63	298.59	306.86	307.58	308.16	298.00
104	355.36	332.96	315.19	292.15	284.21	286.61	294.63	294.66	294.02	285.37
105	337.47	318.91	299.83	279.60	270.66	276.03	282.47	282.58	281.95	273.61
106	320.65	305.75	286.47	268.21	260.06	264.76	270.74	271.22	270.08	261.43
107	307.21	292.68	274.99	257.75	250.47	253.52	259.07	260.52	258.73	249.91
108	293.92	280.52	264.68	248.43	240.87	243.01	247.62	249.88	248.10	239.63

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109	280.76	268.97	254.17	238.94	230.84	233.18	236.87	239.65	238.43	230.05
110	268.60	258.13	244.53	229.96	222.52	224.14	227.36	230.04	229.38	221.18
111	257.32	247.46	234.59	221.40	214.58	216.02	218.59	221.23	221.01	212.95
112	247.13	237.70	225.69	213.62	206.89	208.22	210.79	213.18	213.32	205.41
113	237.25	228.56	217.72	206.39	200.25	200.88	203.39	205.68	206.06	198.06
114	228.20	220.54	210.76	200.08	194.34	194.56	196.95	199.17	199.23	191.28
115	219.97	213.09	204.29	194.23	188.78	188.89	191.09	193.10	192.84	185.02
116	212.19	206.45	197.98	188.82	183.58	183.72	185.66	187.20	186.82	179.14
117	205.01	200.36	192.23	183.98	178.77	178.72	180.52	181.72	181.10	173.36
118	198.66	194.49	186.83	179.12	174.13	173.90	175.48	176.32	175.33	167.98
119	192.96	189.27	181.95	174.91	169.95	169.66	170.72	171.19	169.75	162.48
120	187.86	184.36	177.46	170.75	165.95	165.71	166.18	166.16	164.54	157.10
121	183.01	180.06	173.51	167.01	162.13	161.89	161.92	161.27	159.30	151.86
122	178.52	176.06	170.07	163.47	158.46	158.11	157.72	156.57	154.01	146.56
123	174.11	172.12	166.63	159.87	154.17	153.23	153.05	151.81	148.88	141.33
124	169.59	167.83	162.61	155.27	149.20	148.32	148.10	146.69	143.68	136.02
125	164.93	162.95	157.62	150.29	144.20	143.28	142.87	141.23	138.33	131.02
126	159.95	157.74	152.31	145.05	139.11	138.31	137.82	136.17	133.42	126.08
127	154.61	152.26	146.80	139.67	133.95	133.17	132.88	131.16	128.41	121.27
128	149.35	146.89	141.40	134.41	129.09	128.36	128.04	126.13	123.52	116.68
129	144.30	141.79	136.43	129.62	124.51	123.71	123.46	121.24	118.78	112.27
130	139.39	136.70	131.45	124.87	120.05	119.00	118.83	116.69	114.23	107.80
131	134.76	131.79	126.71	120.47	115.77	114.59	114.36	112.36	109.92	103.54
132	130.16	127.15	122.03	116.11	111.61	110.42	110.00	108.17	105.66	99.57
133	125.71	122.59	117.48	111.91	107.37	106.37	105.89	104.02	101.57	95.62
134	121.13	117.95	112.98	107.69	103.21	102.41	101.83	100.03	97.55	91.85
135	116.56	113.35	108.48	103.56	99.18	98.51	97.94	96.18	93.73	88.11
136	111.93	108.68	103.95	99.39	95.17	94.72	94.09	92.42	89.91	84.51
137	107.19	104.03	99.44	95.18	91.23	90.85	90.16	88.63	86.07	80.93
138	102.46	99.46	95.08	91.05	87.23	86.83	86.34	84.78	82.29	77.46
139	97.66	94.81	90.76	86.99	83.27	82.82	82.41	80.97	78.47	74.01
140	92.90	90.17	86.50	82.81	79.32	78.80	78.53	77.15	74.61	70.48
141	88.06	85.56	82.34	78.69	75.27	74.89	74.77	73.36	70.77	66.90
142	83.43	81.03	78.10	74.64	71.32	71.07	71.00	69.50	66.90	63.58
143	79.00	76.75	74.02	70.59	67.31	67.19	67.15	65.68	63.33	60.18
144	74.68	72.48	69.88	66.67	63.33	63.12	63.26	61.83	59.87	56.97
145	70.56	68.44	65.95	62.69	59.57	59.29	59.49	58.13	56.48	54.03
146	66.51	64.30	62.11	58.82	55.75	55.43	55.71	54.71	53.35	51.05
147	62.55	60.41	58.28	55.04	52.36	51.74	52.01	51.27	50.17	48.22
148	58.74	56.66	54.69	51.70	49.10	48.33	48.36	47.83	47.03	45.31
149	55.13	53.17	51.28	48.43	45.90	44.89	44.80	44.39	43.97	42.41
150	51.65	49.87	47.98	45.19	42.61	41.55	41.46	41.09	40.81	39.58
151	48.16	46.58	44.77	41.93	39.44	38.35	38.20	37.87	37.65	36.73
152	44.91	43.38	41.60	38.84	36.44	35.35	35.20	34.85	34.67	33.78
153	41.58	40.15	38.45	35.84	33.55	32.47	32.23	31.82	31.54	30.74
154	38.41	36.98	35.32	32.89	30.75	29.79	29.38	28.94	28.53	27.79
155	35.35	33.88	32.32	29.92	28.14	27.15	26.65	26.18	25.81	24.89
156	32.39	30.85	29.38	27.20	25.72	24.71	24.07	23.53	23.10	22.25
157	29.45	27.95	26.60	24.68	23.53	22.45	21.63	21.03	20.53	19.80
158	26.68	25.18	23.86	22.34	21.55	20.42	19.36	18.69	18.03	17.48
159	24.00	22.50	21.25	20.10	19.65	18.54	17.28	16.51	15.80	15.31
160	21.37	19.95	18.90	18.12	17.80	16.84	15.39	14.44	13.66	13.25
161	18.79	17.59	16.75	16.20	16.05	15.21	13.62	12.54	11.73	11.46
162	16.35	15.30	14.67	14.37	14.34	13.55	12.17	11.03	10.39	10.01
163	14.04	13.11	12.73	12.67	12.64	11.93	10.79	9.75	9.13	8.73
164	11.94	11.19	10.93	11.02	10.97	10.29	9.43	8.58	8.02	7.68

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CANDELA TABULATION - (Cont.)

165	10.10	9.60	9.50	9.54	9.32	8.76	8.24	7.71	7.25	6.92
166	8.74	8.36	8.23	8.15	7.80	7.43	7.13	7.00	6.76	6.70
167	7.61	7.36	7.35	7.10	6.73	6.57	6.51	6.57	6.53	6.72
168	6.85	6.73	6.77	6.48	6.50	6.53	6.49	6.51	6.43	6.56
169	6.28	6.40	6.51	6.43	6.47	6.53	6.49	6.41	6.24	6.28
170	6.04	6.30	6.45	6.43	6.38	6.21	6.21	6.12	6.05	5.96
171	5.90	6.15	6.30	6.35	6.12	6.07	6.02	5.90	5.77	5.57
172	5.75	5.94	6.15	6.16	6.04	6.05	5.92	5.58	5.24	4.74
173	5.60	5.86	6.09	6.18	6.04	5.72	5.14	4.63	4.20	3.63
174	5.54	5.88	5.97	5.80	5.30	4.77	4.28	3.80	3.38	2.72
175	5.56	5.55	5.29	4.85	4.31	3.89	3.49	3.07	2.77	2.29
176	4.76	4.52	4.20	3.89	3.49	3.13	2.83	2.58	2.32	2.18
177	3.67	3.50	3.31	3.06	2.78	2.55	2.41	2.34	2.24	2.18
178	2.58	2.48	2.43	2.23	2.06	1.96	2.00	2.10	2.16	2.18
179	1.49	1.47	1.55	1.40	1.35	1.38	1.59	1.87	2.09	2.18
180	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08
1	570.08	570.27	569.13	569.65	568.89	568.99	568.73	568.27	568.87	569.31
2	592.86	605.56	589.94	573.28	568.31	568.47	567.90	568.32	568.31	568.72
3	571.26	571.41	569.14	567.72	567.29	567.03	566.29	567.86	567.31	567.63
4	572.81	603.54	631.43	568.58	565.90	565.77	565.52	566.83	567.69	568.51
5	604.05	570.15	569.23	566.83	566.41	569.12	566.15	567.61	569.35	571.17
6	591.38	570.86	568.16	567.67	568.12	617.89	588.80	569.51	573.04	575.61
7	604.98	572.24	569.83	570.44	571.40	578.39	601.37	571.88	576.65	580.87
8	580.44	575.62	572.24	573.50	572.59	569.78	572.12	576.02	581.79	587.50
9	585.91	579.53	575.64	579.31	572.52	571.54	574.24	580.08	584.89	599.86
10	597.43	587.01	581.06	607.76	576.46	575.38	587.56	582.36	588.81	612.22
11	608.95	601.67	597.81	586.19	584.37	583.47	603.27	588.11	600.09	623.91
12	620.52	616.34	614.55	601.86	600.54	598.71	612.01	604.68	611.38	614.40
13	637.70	631.03	631.51	617.79	616.74	613.96	620.75	622.10	622.81	626.77
14	655.61	647.29	659.48	646.63	634.46	629.87	629.75	686.99	641.83	642.54
15	690.20	668.72	669.94	652.87	652.12	664.36	646.98	669.48	657.75	678.18
16	715.95	692.47	689.94	673.75	674.46	673.70	666.61	697.46	674.75	678.41
17	716.54	720.86	709.51	699.54	700.98	714.22	690.89	729.16	695.83	700.13
18	741.99	749.63	731.41	729.05	725.58	722.48	716.58	741.48	721.16	726.14
19	768.98	774.44	756.79	757.49	748.10	751.19	742.14	764.68	746.81	753.25
20	816.58	802.07	782.57	788.03	770.66	782.52	766.23	792.40	804.11	780.39
21	829.66	828.38	808.16	815.78	796.37	813.43	797.29	819.13	815.91	804.21
22	858.36	854.90	830.64	836.92	825.67	829.90	828.44	845.12	831.26	827.09
23	887.03	881.74	855.45	858.70	857.13	856.93	861.64	871.35	871.96	852.71
24	915.90	910.04	879.57	881.62	886.00	880.82	891.78	900.78	891.39	883.05
25	941.23	939.96	907.39	909.14	909.57	937.99	916.62	933.10	953.09	915.54
26	961.05	976.48	927.68	936.12	940.95	940.93	939.32	965.29	949.71	950.61
27	987.66	981.56	954.75	962.20	967.28	965.77	969.38	994.43	976.07	980.02
28	1012.89	1004.96	981.64	993.68	986.11	985.89	997.37	1016.63	1004.34	1010.42
29	1037.49	1031.59	1009.57	1020.24	1009.34	1009.67	1029.96	1042.51	1036.02	1056.82
30	1062.85	1053.66	1034.32	1043.38	1045.13	1041.09	1057.64	1074.06	1069.71	1077.71
31	1084.96	1068.72	1060.48	1062.91	1067.20	1068.57	1083.60	1109.61	1099.26	1111.29
32	1112.21	1084.30	1077.36	1087.52	1092.31	1090.76	1114.77	1141.35	1132.09	1134.97
33	1138.31	1106.33	1107.71	1120.03	1113.31	1117.54	1148.53	1173.11	1170.30	1167.37
34	1157.02	1133.66	1135.38	1146.65	1140.13	1150.78	1174.13	1207.79	1204.91	1203.47
35	1184.18	1163.02	1160.44	1170.73	1176.01	1181.67	1203.08	1239.48	1251.93	1242.40

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CANDELA TABULATION - (Cont.)

36	1211.22	1180.23	1182.04	1191.70	1193.72	1201.18	1232.94	1272.49	1291.11	1277.24
37	1231.54	1195.32	1198.87	1217.78	1208.87	1226.15	1259.81	1308.05	1330.89	1308.12
38	1254.18	1223.07	1222.54	1244.75	1230.28	1250.40	1285.97	1339.10	1365.23	1335.76
39	1268.82	1242.96	1241.36	1255.08	1256.53	1273.45	1315.35	1373.54	1396.05	1368.86
40	1282.06	1256.41	1254.05	1275.77	1285.94	1297.57	1334.87	1400.26	1429.01	1402.48
41	1299.17	1268.28	1274.15	1291.19	1306.36	1310.29	1355.34	1435.00	1460.97	1432.72
42	1318.53	1276.54	1289.19	1304.41	1310.09	1320.33	1374.64	1463.17	1484.36	1451.49
43	1325.68	1291.48	1297.57	1319.56	1322.79	1337.47	1400.45	1488.41	1508.76	1479.70
44	1335.44	1307.46	1299.80	1340.66	1348.13	1358.65	1424.89	1522.76	1535.13	1502.85
45	1345.75	1314.05	1307.44	1350.18	1362.16	1372.18	1438.78	1546.96	1562.83	1525.83
46	1359.51	1315.94	1316.48	1354.40	1366.38	1389.31	1458.46	1568.18	1577.37	1545.81
47	1366.36	1327.00	1319.31	1355.97	1380.57	1402.46	1483.31	1584.40	1597.66	1558.81
48	1375.53	1332.06	1324.40	1360.07	1385.04	1420.43	1499.63	1594.22	1619.96	1565.36
49	1379.89	1326.21	1327.04	1368.00	1384.89	1430.08	1510.02	1615.10	1628.99	1574.03
50	1376.85	1326.24	1320.73	1365.77	1389.89	1432.82	1524.45	1629.97	1631.97	1587.45
51	1371.33	1327.65	1316.80	1368.39	1390.69	1434.52	1528.24	1632.23	1635.30	1600.84
52	1372.42	1324.69	1312.10	1362.68	1388.62	1441.53	1542.37	1632.32	1641.43	1602.12
53	1375.37	1321.10	1303.73	1356.52	1389.21	1451.12	1539.03	1622.91	1647.87	1604.81
54	1377.66	1310.58	1299.45	1350.45	1388.36	1452.85	1530.24	1619.82	1648.08	1611.93
55	1373.15	1307.31	1299.42	1346.39	1381.65	1442.99	1523.95	1625.69	1642.36	1611.09
56	1361.21	1302.61	1296.18	1345.96	1376.79	1426.71	1525.22	1620.70	1634.16	1598.32
57	1351.57	1297.80	1291.60	1336.89	1366.07	1427.28	1526.19	1611.98	1622.61	1589.02
58	1345.26	1285.79	1280.61	1330.47	1358.50	1421.59	1516.07	1596.76	1613.53	1581.37
59	1335.01	1271.01	1256.82	1315.45	1348.47	1410.52	1503.37	1581.17	1601.44	1576.05
60	1320.68	1256.22	1235.00	1295.35	1340.80	1404.33	1492.88	1561.57	1591.04	1578.25
61	1312.56	1235.01	1220.05	1280.49	1323.70	1386.68	1478.37	1541.88	1568.40	1570.67
62	1295.04	1220.73	1214.43	1267.43	1308.60	1368.37	1462.75	1526.46	1549.27	1549.34
63	1274.45	1219.25	1201.95	1246.18	1287.55	1353.37	1445.57	1510.37	1535.51	1514.87
64	1248.95	1205.42	1185.19	1223.50	1279.01	1344.30	1430.98	1496.61	1523.37	1495.04
65	1234.63	1187.93	1167.95	1204.49	1269.31	1339.53	1415.68	1486.36	1509.79	1484.00
66	1225.40	1168.30	1142.24	1189.95	1260.04	1313.48	1390.91	1452.71	1475.64	1470.83
67	1202.75	1143.89	1116.74	1177.50	1242.07	1287.83	1366.00	1416.79	1436.52	1438.82
68	1182.10	1119.48	1106.33	1154.56	1215.28	1266.90	1336.30	1386.71	1401.53	1403.72
69	1152.97	1095.09	1086.26	1131.62	1192.26	1246.11	1313.24	1363.19	1376.26	1369.41
70	1123.84	1072.43	1065.85	1108.71	1174.59	1220.83	1291.18	1337.03	1364.49	1339.12
71	1094.98	1057.14	1047.51	1087.46	1149.36	1201.78	1282.14	1315.77	1351.61	1320.13
72	1075.63	1036.80	1032.89	1061.29	1124.12	1181.13	1259.26	1289.90	1329.38	1307.96
73	1058.65	1015.19	1010.89	1037.51	1098.72	1147.45	1224.38	1256.58	1298.11	1283.05
74	1032.31	987.42	986.96	1014.40	1066.57	1113.78	1185.80	1223.74	1262.45	1246.66
75	1008.21	966.46	961.77	990.64	1037.90	1080.39	1167.26	1197.93	1226.47	1205.95
76	980.77	943.86	936.95	964.77	1012.99	1062.30	1139.16	1165.01	1196.49	1169.83
77	955.34	913.16	912.82	944.11	998.23	1044.42	1110.98	1132.10	1165.25	1133.72
78	926.33	885.28	889.88	916.71	972.80	1023.26	1075.26	1099.20	1134.02	1097.87
79	896.77	863.53	871.78	895.37	944.28	990.44	1038.89	1067.60	1102.80	1077.96
80	871.52	841.36	846.68	872.25	919.93	951.92	1006.19	1036.28	1074.39	1068.11
81	848.58	817.14	819.00	841.69	887.79	928.82	980.23	1008.45	1043.76	1050.58
82	817.49	790.47	786.19	806.71	849.04	905.47	954.67	968.99	1005.05	997.23
83	791.17	764.80	753.29	778.69	822.03	866.63	921.66	935.24	961.08	928.35
84	761.40	732.46	724.68	750.00	792.72	832.00	883.63	912.25	916.64	882.22
85	726.38	701.76	702.46	722.74	759.63	798.51	850.99	880.10	875.20	853.56
86	698.30	677.43	676.73	689.91	729.18	768.27	819.80	840.26	840.00	823.82
87	672.88	656.28	647.11	660.02	702.57	744.55	785.75	796.92	803.45	793.88
88	646.74	628.25	621.83	635.97	676.28	715.75	751.89	761.54	766.25	757.80
89	619.20	596.11	595.07	607.25	645.46	678.70	721.12	729.60	734.96	719.86
90	589.46	568.66	565.33	578.36	613.55	650.75	694.28	702.67	698.37	684.61
91	560.33	542.88	538.37	549.88	584.65	619.69	661.56	672.45	669.00	660.37

CANDELA TABULATION - (Cont.)

92	532.08	516.71	512.45	520.91	556.97	593.23	628.59	634.60	644.48	630.57
93	503.56	491.29	486.29	495.52	529.20	563.72	597.40	608.14	611.16	599.19
94	478.85	468.62	461.48	472.17	500.04	528.75	565.35	579.42	569.88	570.83
95	453.64	445.53	436.83	448.83	474.05	501.24	538.54	542.99	542.70	543.25
96	430.72	422.05	413.73	421.99	449.22	474.78	513.61	511.16	517.42	515.31
97	405.81	401.60	394.19	399.05	426.15	449.77	486.70	483.00	492.42	487.17
98	382.81	380.30	374.46	379.79	403.14	427.07	456.81	456.24	464.61	458.81
99	364.02	359.99	354.02	361.55	380.04	403.24	427.28	432.76	438.83	430.23
100	345.24	340.59	334.59	343.34	360.56	380.65	403.48	409.43	414.29	406.75
101	328.65	322.42	317.73	324.94	340.33	358.58	382.20	384.89	390.09	385.14
102	313.23	305.02	301.25	306.15	321.68	338.35	359.71	364.27	368.07	363.36
103	298.01	290.10	285.64	289.54	303.82	319.53	337.66	345.23	345.27	341.11
104	283.70	276.50	270.48	274.09	287.89	302.50	319.00	324.72	324.10	322.38
105	270.25	263.59	257.02	259.78	272.27	286.24	301.74	304.90	305.75	303.63
106	258.15	251.69	245.25	246.46	257.54	271.07	284.51	288.10	289.31	286.11
107	246.71	240.51	233.92	233.98	245.01	257.47	269.80	272.90	274.40	270.96
108	236.74	229.50	222.65	222.43	232.78	244.01	255.77	258.93	259.86	255.94
109	227.40	219.62	212.41	211.85	221.66	231.94	242.01	245.48	246.25	243.07
110	218.22	210.45	203.26	202.43	211.27	221.06	230.00	233.12	233.75	231.23
111	209.21	201.70	194.80	194.00	202.21	211.47	219.23	221.92	222.83	220.71
112	201.05	193.70	187.56	186.66	194.16	202.73	209.84	212.06	213.48	211.72
113	193.62	186.34	180.86	179.96	186.75	194.92	201.02	203.51	204.76	203.55
114	186.89	179.80	174.89	173.80	180.10	187.78	193.49	196.11	196.74	196.09
115	180.59	173.88	169.29	168.37	174.12	181.16	186.51	189.32	189.49	188.83
116	174.86	168.71	164.41	163.47	168.62	175.29	180.21	183.10	182.75	182.13
117	169.41	163.67	159.84	159.28	163.77	169.79	174.43	177.07	176.62	175.94
118	163.88	158.78	155.51	154.97	158.99	164.70	168.80	171.12	170.91	170.30
119	158.69	153.69	151.00	150.27	154.20	159.92	163.54	165.41	165.37	165.06
120	153.30	148.61	145.86	145.16	149.08	155.14	158.47	159.88	160.05	159.98
121	147.80	143.17	140.63	140.18	143.85	150.02	153.62	154.57	155.07	155.48
122	142.44	137.94	135.31	135.24	138.60	144.33	148.28	149.27	150.18	151.37
123	137.13	132.89	130.26	130.20	133.66	138.78	142.81	144.18	145.32	147.00
124	131.87	127.86	125.39	125.36	128.55	133.27	137.13	138.89	140.58	142.48
125	126.97	123.09	120.85	120.86	123.64	127.86	131.44	133.30	134.92	136.75
126	122.12	118.52	116.51	116.55	118.87	122.86	125.93	127.65	128.86	130.29
127	117.41	114.17	112.23	112.44	114.33	117.90	120.62	122.08	123.06	124.14
128	113.03	109.75	108.05	108.28	109.97	113.18	115.80	116.91	117.52	118.58
129	108.92	105.63	103.95	104.20	105.81	108.65	111.07	112.12	112.38	113.35
130	104.69	101.53	99.95	100.07	101.73	104.48	106.49	107.50	107.41	108.35
131	100.66	97.60	96.14	96.24	97.61	100.40	102.21	103.10	102.94	103.62
132	96.65	93.82	92.37	92.46	93.78	96.49	98.07	99.00	98.70	99.19
133	92.93	90.18	88.71	88.83	90.10	92.75	94.09	95.07	94.98	95.29
134	89.20	86.46	85.17	85.19	86.47	88.93	90.28	91.31	91.23	91.58
135	85.58	83.06	81.73	81.82	83.19	85.27	86.69	87.56	87.56	87.91
136	82.01	79.79	78.45	78.62	80.12	81.79	83.10	83.93	84.11	84.47
137	78.63	76.63	75.19	75.47	77.17	78.59	79.70	80.55	80.83	81.19
138	75.23	73.50	72.21	72.49	74.25	75.60	76.57	77.39	77.79	77.97
139	71.83	70.46	69.18	69.49	71.31	72.59	73.74	74.40	74.73	74.79
140	68.43	67.30	66.13	66.39	68.28	69.77	70.88	71.27	71.65	71.82
141	65.05	64.07	62.96	63.24	65.22	66.65	67.87	68.10	68.47	68.71
142	61.72	60.91	59.90	60.08	62.15	63.68	64.87	65.05	65.27	65.61
143	58.63	57.89	56.96	57.13	59.27	60.84	61.88	62.08	62.21	62.64
144	55.66	55.06	54.20	54.39	56.57	58.13	58.89	59.07	59.11	59.75
145	52.92	52.40	51.51	51.78	53.92	55.44	55.98	56.04	56.13	56.82
146	50.17	49.71	48.82	49.12	51.24	52.60	53.05	52.98	53.20	53.89
147	47.42	47.11	46.24	46.60	48.46	49.68	49.94	49.76	50.26	50.94

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CANDELA TABULATION - (Cont.)

148	44.78	44.51	43.80	44.08	45.65	46.51	46.76	46.61	47.10	47.80
149	42.06	41.92	41.36	41.65	42.78	43.38	43.57	43.50	44.10	44.80
150	39.26	39.27	39.01	39.15	40.00	40.27	40.38	40.30	40.93	41.74
151	36.52	36.59	36.40	36.66	37.16	37.39	37.27	37.24	37.86	38.74
152	33.66	33.74	33.78	34.04	34.25	34.29	34.10	34.17	34.77	35.73
153	30.71	30.83	30.93	31.41	31.20	31.07	30.78	30.95	31.45	32.61
154	27.72	27.92	28.16	28.60	28.30	28.01	27.63	27.72	28.18	29.43
155	24.84	25.01	25.37	25.93	25.39	24.94	24.48	24.58	25.04	26.40
156	22.13	22.28	22.79	23.39	22.76	22.06	21.61	21.61	22.08	23.50
157	19.64	19.75	20.48	21.07	20.33	19.48	19.03	19.04	19.36	20.76
158	17.28	17.44	18.22	18.81	18.11	17.01	16.63	16.67	16.79	18.17
159	15.11	15.59	16.29	16.71	16.07	15.09	14.51	14.56	14.74	16.07
160	13.24	13.72	14.40	14.77	14.18	13.27	12.74	12.76	12.94	14.23
161	11.55	12.01	12.65	12.83	12.38	11.68	11.34	11.34	11.47	12.47
162	10.13	10.47	10.92	10.94	10.69	10.37	10.05	10.14	10.28	10.88
163	8.84	9.07	9.33	9.17	9.02	9.15	9.03	9.23	9.27	9.44
164	7.76	7.99	8.07	7.98	7.98	8.30	8.84	8.74	9.09	8.41
165	7.07	7.22	7.32	7.57	7.83	7.93	8.64	8.67	8.90	7.97
166	6.72	6.87	7.17	7.51	7.81	7.95	8.44	8.52	8.72	7.98
167	6.74	6.89	7.15	7.41	7.58	7.91	8.25	8.48	8.54	7.98
168	6.58	6.70	6.85	6.92	7.26	7.70	8.05	8.25	8.36	7.79
169	6.24	6.35	6.54	6.78	7.24	7.57	7.73	7.91	8.01	7.74
170	5.98	6.00	6.17	6.51	6.85	7.00	7.03	7.20	7.38	7.64
171	5.58	5.45	5.42	5.28	5.24	5.28	5.46	5.71	6.08	6.68
172	4.78	4.44	4.11	3.82	3.70	3.75	3.89	4.16	4.50	5.17
173	3.66	3.33	2.98	2.76	2.61	2.58	2.54	2.84	3.27	3.82
174	2.77	2.53	2.34	2.29	2.31	2.37	2.37	2.37	2.57	2.94
175	2.29	2.20	2.27	2.26	2.28	2.35	2.35	2.35	2.31	2.30
176	2.20	2.16	2.20	2.26	2.28	2.35	2.33	2.31	2.31	2.31
177	2.20	2.16	2.20	2.20	2.28	2.35	2.33	2.31	2.29	2.29
178	2.21	2.16	2.20	2.20	2.28	2.35	2.33	2.31	2.29	2.30
179	2.22	2.18	2.20	2.20	2.29	2.35	2.33	2.33	2.31	2.31
180	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

Vert. Angles	Horizontal Angles									
	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08	570.08
1	569.84	569.62	570.82	570.90	571.56	572.18	575.40	576.37	574.21	572.98
2	569.50	569.92	571.28	571.44	572.54	579.12	601.06	628.03	602.83	579.81
3	569.15	569.96	571.98	573.39	573.47	574.18	575.02	575.16	576.08	576.10
4	569.60	571.16	583.01	618.29	582.04	576.88	579.46	574.54	575.91	576.28
5	571.93	576.73	573.85	574.40	576.12	603.24	620.92	576.43	576.90	577.67
6	581.67	627.59	575.64	576.08	578.45	580.47	582.40	578.87	578.07	577.74
7	579.12	577.35	578.14	578.80	582.27	584.94	586.62	582.10	580.22	578.61
8	586.46	579.73	581.98	585.17	589.88	589.77	590.64	585.44	614.67	580.64
9	605.63	583.00	587.56	592.01	598.86	595.88	625.43	589.53	595.76	582.83
10	592.56	589.52	595.27	601.20	605.88	601.53	624.42	594.12	593.10	587.80
11	604.27	603.22	607.58	610.87	602.45	610.66	623.42	598.14	594.63	593.11
12	615.97	616.92	619.91	637.17	611.51	619.87	622.44	614.58	601.91	596.62
13	627.81	630.68	634.81	624.62	620.60	640.90	631.38	617.25	605.49	602.52
14	647.53	647.66	650.91	636.25	631.83	637.67	641.33	620.23	610.54	613.41
15	671.06	676.28	665.30	651.61	649.37	654.94	656.51	631.44	625.17	629.73
16	692.81	684.79	684.93	671.52	675.54	676.49	675.28	688.96	645.83	645.09
17	714.09	705.87	705.40	693.59	711.02	683.85	699.76	677.06	666.49	664.21
18	736.89	733.37	728.47	722.31	727.05	706.89	726.88	694.64	758.07	687.96

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CANDELA TABULATION - (Cont.)

19	760.14	767.83	754.50	787.37	746.29	731.46	748.44	720.83	715.71	712.57
20	787.35	800.14	778.87	784.20	765.81	759.22	770.88	749.36	731.22	739.39
21	817.80	825.72	805.25	812.99	793.00	786.76	797.64	777.58	757.17	764.87
22	848.16	853.00	834.66	840.35	821.87	812.73	825.80	806.44	783.28	785.40
23	885.56	881.17	866.61	870.31	853.52	845.01	848.32	838.10	819.11	806.41
24	915.55	905.32	899.74	904.48	880.74	879.15	869.90	864.89	868.55	833.62
25	945.18	930.38	929.51	935.66	909.35	908.84	896.86	891.34	854.78	860.82
26	971.48	957.90	958.03	965.12	937.79	934.68	923.09	926.07	878.96	885.48
27	1000.13	990.56	991.58	995.30	964.27	962.00	952.63	982.44	909.53	914.79
28	1035.84	1022.86	1030.66	1054.13	989.92	992.26	980.84	971.77	972.99	942.29
29	1066.11	1051.86	1066.42	1064.63	1015.91	1019.38	1026.32	996.87	967.85	972.37
30	1103.23	1083.40	1091.85	1089.68	1041.02	1050.70	1037.74	1023.45	991.13	996.95
31	1142.14	1119.50	1123.33	1116.11	1069.23	1079.16	1064.94	1049.27	1023.12	1027.05
32	1164.18	1158.31	1156.06	1139.87	1092.65	1101.77	1092.93	1079.43	1055.08	1049.81
33	1194.34	1189.36	1192.90	1171.86	1118.40	1133.56	1122.69	1104.86	1086.62	1084.43
34	1224.72	1213.26	1225.12	1203.18	1145.18	1162.78	1157.76	1134.86	1121.12	1119.18
35	1262.87	1246.19	1249.46	1223.65	1174.56	1191.13	1180.89	1164.90	1155.63	1147.91
36	1303.77	1281.29	1274.60	1248.62	1199.61	1220.82	1203.63	1194.93	1190.15	1176.44
37	1337.69	1320.68	1306.42	1269.16	1221.87	1247.41	1234.29	1233.05	1215.97	1208.39
38	1361.79	1339.79	1336.54	1291.08	1253.27	1270.12	1264.10	1268.40	1240.51	1231.83
39	1380.23	1362.18	1356.90	1317.63	1276.94	1305.49	1291.69	1283.49	1263.58	1250.13
40	1406.76	1379.28	1376.20	1340.40	1296.08	1331.41	1325.29	1305.76	1293.32	1266.18
41	1436.18	1412.31	1400.68	1364.81	1315.63	1361.36	1352.01	1336.04	1318.00	1297.07
42	1462.70	1443.80	1416.72	1390.22	1347.76	1379.61	1372.75	1356.76	1340.24	1326.63
43	1490.22	1463.83	1444.21	1417.42	1374.87	1395.57	1406.82	1385.55	1355.35	1343.34
44	1515.68	1484.28	1471.28	1444.28	1397.58	1425.14	1427.18	1412.54	1356.82	1363.75
45	1535.46	1505.44	1488.13	1458.80	1410.95	1450.95	1444.02	1424.52	1377.94	1375.95
46	1554.14	1522.10	1505.22	1474.12	1429.97	1463.15	1461.27	1434.87	1398.40	1390.26
47	1564.42	1534.13	1513.55	1475.97	1444.92	1487.17	1482.09	1455.94	1416.83	1420.34
48	1584.24	1542.30	1522.55	1475.36	1460.67	1494.33	1502.36	1472.64	1425.38	1433.54
49	1592.28	1547.81	1529.94	1492.25	1471.91	1501.13	1508.89	1476.39	1433.24	1443.68
50	1601.83	1556.14	1535.82	1506.35	1488.74	1514.28	1511.32	1487.58	1436.60	1442.83
51	1609.67	1565.83	1537.48	1511.70	1495.36	1526.47	1518.55	1493.75	1433.41	1443.41
52	1613.31	1569.43	1543.58	1511.88	1500.08	1532.54	1522.15	1495.30	1438.18	1451.15
53	1620.66	1573.75	1545.01	1509.80	1493.11	1531.47	1525.95	1497.94	1446.92	1459.90
54	1623.76	1572.08	1543.89	1509.80	1497.06	1530.22	1528.04	1502.55	1454.01	1467.39
55	1612.14	1564.92	1540.82	1516.12	1505.00	1529.36	1522.76	1506.76	1461.13	1466.09
56	1599.54	1544.51	1533.98	1518.02	1503.36	1527.89	1523.17	1498.87	1457.17	1460.18
57	1588.55	1530.72	1527.56	1499.88	1495.29	1525.38	1512.45	1486.84	1445.85	1444.02
58	1571.04	1525.39	1515.72	1490.59	1479.47	1513.13	1512.20	1478.98	1421.72	1437.58
59	1564.07	1521.09	1503.20	1486.69	1466.96	1499.56	1500.86	1472.39	1410.33	1424.65
60	1552.74	1516.55	1484.27	1480.92	1462.18	1483.14	1486.11	1468.75	1407.41	1412.40
61	1538.68	1506.72	1468.45	1459.56	1451.32	1462.35	1462.11	1456.59	1403.40	1397.77
62	1524.29	1488.35	1449.14	1442.04	1439.49	1452.68	1447.27	1437.39	1400.32	1393.85
63	1509.24	1458.66	1436.43	1424.97	1418.29	1442.46	1433.48	1415.57	1389.48	1386.29
64	1482.20	1431.86	1418.52	1419.38	1401.17	1423.75	1426.59	1402.75	1358.09	1368.45
65	1463.39	1414.41	1399.01	1390.05	1379.26	1405.05	1406.18	1386.60	1327.41	1340.81
66	1448.09	1392.38	1362.27	1355.19	1356.51	1394.02	1387.66	1366.06	1314.98	1319.57
67	1413.85	1359.36	1337.22	1320.79	1331.58	1369.74	1372.98	1344.44	1303.35	1299.97
68	1387.81	1330.98	1317.16	1303.70	1302.03	1344.12	1348.62	1335.59	1296.64	1281.69
69	1367.56	1295.71	1289.92	1286.91	1275.85	1316.08	1311.35	1315.08	1273.84	1260.95
70	1338.87	1272.42	1260.94	1254.88	1253.51	1287.83	1288.39	1285.28	1243.58	1228.45
71	1315.89	1248.26	1236.07	1233.13	1229.26	1267.32	1268.23	1259.17	1211.64	1204.83
72	1280.03	1220.73	1211.14	1209.66	1220.92	1238.63	1253.39	1229.55	1189.48	1179.00
73	1245.50	1194.02	1176.81	1178.25	1183.56	1233.60	1238.33	1206.50	1164.01	1156.29
74	1214.26	1162.45	1142.47	1157.29	1146.19	1212.60	1198.12	1180.42	1136.84	1126.67

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75	1179.46	1130.88	1108.27	1136.32	1109.10	1176.47	1163.23	1152.68	1121.96	1108.70
76	1145.19	1098.81	1081.89	1114.60	1092.79	1140.34	1128.34	1123.86	1094.29	1081.76
77	1110.93	1050.63	1044.91	1068.18	1063.83	1104.24	1093.50	1094.78	1051.61	1047.07
78	1077.35	1018.31	1009.95	1027.13	1033.52	1070.93	1067.35	1060.20	1019.69	1016.65
79	1042.84	1001.41	982.60	1004.73	995.30	1040.30	1042.93	1030.76	994.88	985.15
80	1024.00	986.02	953.37	983.83	962.97	1012.40	1016.57	1007.71	970.22	958.93
81	999.41	967.00	933.25	957.53	932.58	980.00	995.07	979.45	945.21	934.50
82	961.23	937.43	906.50	923.02	912.61	943.17	960.46	946.59	921.88	912.39
83	914.86	890.19	873.65	891.28	888.10	908.57	919.48	914.45	890.60	883.61
84	876.01	842.77	836.85	862.03	854.92	882.77	885.13	886.56	863.55	854.72
85	832.77	809.14	796.62	830.33	820.10	855.53	857.98	853.79	827.33	821.02
86	798.28	786.73	762.07	787.23	780.26	824.58	825.15	820.73	797.37	789.98
87	773.97	756.22	733.56	753.38	747.04	786.27	792.32	784.03	771.23	771.36
88	740.25	718.42	707.41	721.92	718.85	748.68	766.01	754.61	742.12	745.57
89	708.88	675.98	674.95	694.98	690.18	717.57	732.13	728.90	715.27	715.42
90	678.27	645.95	646.80	664.30	659.70	687.60	696.79	706.65	688.56	683.43
91	642.93	626.33	618.36	635.91	633.97	661.57	667.96	685.05	665.78	655.51
92	618.29	598.54	588.51	597.70	613.22	634.93	641.01	654.74	638.12	634.79
93	590.87	568.86	566.30	573.03	584.62	604.19	613.58	618.29	610.58	608.32
94	562.89	545.29	542.45	549.96	549.01	576.09	583.36	587.47	583.05	581.63
95	539.22	517.64	515.68	528.30	524.31	546.08	556.08	556.77	555.52	554.94
96	513.20	494.16	490.15	506.36	504.55	520.76	531.11	535.25	530.55	534.21
97	483.66	470.02	467.16	480.92	484.42	500.60	506.44	514.13	508.62	510.65
98	455.39	442.20	444.04	454.20	461.33	477.46	484.54	492.74	485.89	481.72
99	429.37	418.07	419.83	430.61	441.86	453.34	458.40	471.03	464.62	458.87
100	405.63	394.76	397.30	409.72	418.72	430.11	433.90	444.74	440.93	435.60
101	380.70	373.09	378.21	387.02	395.12	407.08	411.68	420.49	419.24	414.51
102	359.31	352.91	357.68	365.64	374.21	387.74	391.76	400.47	398.38	393.35
103	337.09	333.28	338.67	346.70	355.46	367.75	373.95	380.92	378.63	372.95
104	317.60	314.83	319.08	327.72	336.74	348.63	356.20	363.61	358.93	353.18
105	299.85	297.09	300.51	310.34	319.60	330.67	336.78	345.89	340.52	336.66
106	282.95	279.35	283.06	295.38	304.54	314.54	318.64	328.21	324.23	319.81
107	267.35	264.23	268.14	282.28	291.32	299.71	302.93	312.69	309.01	303.89
108	253.03	251.52	255.27	269.22	278.67	286.28	289.62	298.32	294.59	289.99
109	240.82	239.79	244.15	257.54	265.55	273.22	276.19	285.11	282.18	277.36
110	229.66	229.26	233.48	245.90	254.12	261.65	263.98	272.57	270.00	266.05
111	219.23	218.88	222.75	234.55	242.98	250.40	253.00	260.78	258.80	255.14
112	209.79	208.98	213.20	224.31	232.76	239.84	242.87	249.91	248.37	244.32
113	200.78	199.49	204.28	214.93	223.28	229.32	232.59	239.75	238.34	234.36
114	192.95	191.57	196.55	206.22	214.22	219.88	223.23	230.14	228.68	225.21
115	185.82	184.46	189.49	198.07	205.91	211.17	214.45	221.31	220.27	216.87
116	179.47	178.16	183.08	190.67	198.53	203.42	206.89	213.51	212.20	208.90
117	173.47	172.23	176.93	183.52	191.36	196.35	199.65	205.99	204.47	201.32
118	168.02	166.58	171.17	177.00	184.44	189.56	192.77	199.01	197.32	194.04
119	162.80	160.98	165.58	171.13	177.81	183.00	186.24	192.16	190.80	187.97
120	157.77	155.87	160.38	165.63	171.89	176.67	180.06	186.12	184.80	182.01
121	153.28	151.49	155.68	160.64	166.38	171.13	174.27	180.22	179.35	176.65
122	149.04	147.41	151.46	156.04	161.33	165.72	168.82	174.86	174.16	171.62
123	145.31	143.74	147.65	151.77	156.59	160.54	163.49	169.37	169.07	166.85
124	141.41	139.80	143.85	147.54	151.84	155.35	157.92	163.73	163.52	161.96
125	136.13	134.74	139.32	142.94	146.61	150.10	152.15	158.06	158.09	156.98
126	129.68	128.85	133.27	137.16	141.15	144.49	146.43	152.62	152.61	151.81
127	123.34	123.29	127.11	130.87	135.51	138.84	140.79	147.23	147.43	146.80
128	117.91	117.88	121.65	125.31	129.96	133.33	135.34	141.79	142.24	141.85
129	112.71	112.65	116.48	120.06	124.46	128.15	130.23	136.94	137.34	137.06
130	107.84	107.67	111.45	115.06	119.33	123.19	125.52	132.14	132.63	132.35

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CANDELA TABULATION - (Cont.)

131	103.28	103.15	106.88	110.39	114.56	118.59	121.09	127.65	128.18	127.99
132	98.91	98.79	102.56	106.03	110.07	114.14	116.90	123.16	123.93	123.65
133	95.16	94.94	98.49	101.91	105.86	109.96	112.79	118.86	119.74	119.61
134	91.37	91.13	94.64	97.98	101.73	105.59	108.50	114.56	115.66	115.48
135	87.66	87.39	90.88	94.15	97.82	101.55	104.45	110.48	111.67	111.63
136	84.13	83.82	87.19	90.39	94.01	97.44	100.34	106.20	107.63	107.54
137	80.87	80.33	83.63	86.74	90.17	93.34	96.11	102.00	103.40	103.38
138	77.72	77.01	80.17	83.21	86.43	89.19	91.86	97.57	99.17	99.21
139	74.54	73.79	76.69	79.73	82.91	85.35	87.65	93.11	94.84	94.88
140	71.36	70.54	73.35	76.48	79.43	81.64	83.66	88.73	90.50	90.68
141	68.12	67.27	70.11	73.29	76.11	78.08	79.84	84.40	86.00	86.50
142	64.93	64.08	66.98	70.09	72.91	74.73	76.15	80.26	81.69	82.26
143	61.73	60.85	63.91	67.02	69.76	71.49	72.51	76.28	77.29	78.11
144	58.61	57.76	60.84	64.07	66.73	68.37	69.18	72.42	73.48	74.08
145	55.69	54.99	57.86	61.25	63.87	65.24	66.00	68.83	69.72	69.97
146	52.87	52.29	55.17	58.39	60.78	62.16	62.93	65.45	65.96	66.10
147	49.97	49.71	52.61	55.68	57.78	59.18	59.95	62.21	62.69	62.46
148	47.03	47.11	50.08	53.00	54.92	56.17	56.99	59.13	59.53	58.89
149	44.12	44.57	47.50	50.14	52.07	53.38	54.17	56.21	56.52	55.77
150	41.35	41.98	44.87	47.36	49.25	50.52	51.35	53.45	53.67	52.80
151	38.49	39.42	42.22	44.61	46.41	47.66	48.51	50.42	50.75	49.84
152	35.71	36.73	39.45	41.79	43.52	44.72	45.59	47.46	47.81	46.97
153	33.02	34.06	36.58	38.79	40.45	41.68	42.63	44.38	44.75	44.09
154	30.32	31.50	33.71	35.73	37.34	38.67	39.61	41.29	41.63	41.25
155	27.51	28.82	30.77	32.67	34.37	35.49	36.58	38.30	38.78	38.39
156	24.77	26.22	27.91	29.70	31.26	32.50	33.60	35.52	35.99	35.70
157	22.19	23.74	25.17	26.82	28.27	29.55	30.65	32.72	33.11	33.00
158	19.85	21.34	22.52	23.98	25.39	26.70	27.83	29.80	30.31	30.39
159	17.88	19.20	20.06	21.26	22.65	23.98	25.13	27.02	27.56	27.75
160	16.01	17.27	17.83	18.72	20.03	21.39	22.50	24.36	24.90	25.28
161	14.16	15.44	15.94	16.37	17.53	18.89	20.04	21.78	22.30	22.87
162	12.38	13.55	14.01	14.41	15.31	16.55	17.63	19.31	19.90	20.45
163	10.57	11.64	12.17	12.51	13.33	14.32	15.39	16.92	17.56	18.30
164	8.81	9.85	10.51	10.88	11.55	12.42	13.21	14.60	15.32	16.18
165	7.47	8.32	9.10	9.46	10.07	10.65	11.37	12.55	13.30	14.22
166	7.59	7.54	8.01	8.28	8.76	9.25	9.88	10.71	11.43	12.33
167	7.83	7.53	7.57	7.74	8.06	8.50	8.95	9.30	10.01	10.58
168	7.63	7.44	7.15	7.22	7.37	7.63	7.95	8.12	8.69	9.21
169	7.19	7.06	6.85	6.71	6.71	6.79	6.92	7.06	7.49	7.88
170	7.17	6.79	6.60	6.31	6.20	6.05	6.11	6.09	6.36	6.63
171	6.96	6.56	6.27	5.91	5.74	5.51	5.40	5.21	5.40	5.56
172	5.81	5.83	5.63	5.29	5.06	4.93	4.87	4.55	4.61	4.72
173	4.53	4.91	4.86	4.61	4.42	4.42	4.34	4.23	4.30	4.42
174	3.50	4.05	4.18	4.12	4.05	3.94	3.96	4.00	4.11	4.28
175	2.61	3.11	3.50	3.71	3.77	3.81	3.85	3.92	4.07	4.17
176	2.35	2.39	2.73	3.09	3.34	3.53	3.67	3.82	3.98	4.07
177	2.31	2.37	2.35	2.45	2.75	3.03	3.32	3.52	3.66	3.83
178	2.31	2.35	2.35	2.35	2.39	2.47	2.60	3.22	3.34	3.59
179	2.33	2.35	2.35	2.35	2.37	2.35	2.31	2.92	3.02	3.34
180	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	570.08	570.08	570.08	570.08	570.08	570.08	570.08
1	576.03	583.90	588.10	587.98	581.37	575.43	572.46

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CANDELA TABULATION - (Cont.)

2	577.07	595.18	619.55	622.50	602.96	580.21	574.54
3	575.95	576.24	576.36	577.71	575.89	576.01	575.28
4	575.60	575.95	575.56	576.62	577.09	578.32	595.66
5	576.43	576.60	577.00	578.76	579.33	636.96	596.68
6	577.64	577.47	579.42	581.79	582.26	587.50	603.64
7	626.68	580.01	582.40	585.96	586.09	588.41	603.60
8	606.26	583.91	585.48	588.21	590.04	593.88	599.70
9	585.79	589.17	617.93	590.19	592.16	599.00	597.97
10	591.08	594.07	597.26	590.11	596.16	604.88	606.56
11	595.19	592.62	590.99	596.02	603.07	614.27	614.95
12	597.07	597.44	601.26	603.51	610.88	623.56	638.55
13	605.47	618.57	614.26	610.12	622.60	634.70	653.75
14	633.82	619.41	627.66	620.99	636.79	651.89	643.53
15	634.41	629.40	640.18	637.09	653.84	668.68	656.35
16	650.57	643.03	654.25	654.57	725.04	682.65	685.17
17	667.23	657.85	673.68	672.30	705.61	700.78	720.35
18	686.46	678.66	697.65	690.85	715.34	724.81	714.69
19	710.44	701.87	720.23	712.83	739.73	753.17	740.44
20	732.84	726.70	742.11	739.70	766.40	780.00	768.97
21	757.53	752.98	762.53	769.18	793.92	804.65	793.46
22	782.89	781.36	784.54	800.23	861.77	832.23	819.60
23	809.52	809.51	811.13	854.11	840.99	852.31	850.77
24	831.83	838.12	839.53	894.28	867.44	875.01	881.30
25	854.75	865.94	867.12	895.32	928.50	900.36	912.33
26	878.23	892.20	893.81	905.40	942.06	926.57	937.87
27	904.43	918.61	920.90	932.77	949.65	950.46	964.57
28	933.38	944.84	946.70	960.03	972.72	974.95	991.56
29	964.19	977.71	970.84	988.41	998.33	1000.69	1018.03
30	997.19	1009.88	996.47	1015.70	1029.59	1031.59	1046.07
31	1028.09	1047.79	1029.48	1045.53	1059.93	1063.19	1072.68
32	1051.27	1082.62	1062.79	1076.64	1091.07	1092.73	1104.47
33	1079.44	1106.35	1089.32	1107.41	1124.95	1128.76	1139.39
34	1108.16	1138.80	1122.91	1140.44	1158.87	1164.85	1174.34
35	1139.71	1171.28	1156.55	1173.48	1192.79	1200.93	1209.30
36	1171.28	1203.76	1190.20	1206.51	1227.70	1232.26	1235.21
37	1202.84	1228.25	1217.27	1237.49	1258.17	1267.69	1264.18
38	1234.57	1251.38	1241.50	1264.89	1288.37	1297.30	1295.38
39	1258.55	1289.11	1267.52	1294.08	1318.18	1330.97	1326.88
40	1286.55	1318.42	1286.05	1326.25	1353.59	1362.48	1350.05
41	1307.70	1328.71	1315.75	1343.03	1378.75	1384.12	1380.21
42	1330.25	1352.03	1340.29	1361.36	1406.67	1412.00	1413.61
43	1355.27	1378.55	1356.99	1384.44	1435.43	1444.83	1438.49
44	1379.48	1398.05	1379.57	1408.87	1462.80	1480.73	1459.89
45	1392.73	1411.52	1401.06	1434.54	1491.77	1506.89	1486.63
46	1398.74	1428.79	1417.46	1451.10	1507.82	1523.12	1501.75
47	1418.64	1446.21	1433.41	1458.80	1516.50	1532.59	1523.87
48	1430.13	1463.89	1450.74	1464.75	1534.52	1554.74	1542.52
49	1448.00	1475.55	1465.21	1469.88	1551.85	1580.16	1551.75
50	1459.04	1485.82	1456.25	1482.96	1570.11	1602.68	1556.36
51	1454.63	1489.77	1462.85	1497.48	1582.53	1598.28	1560.24
52	1454.36	1497.59	1468.39	1509.24	1581.25	1598.20	1569.10
53	1471.80	1494.54	1476.97	1510.27	1578.80	1600.24	1585.61
54	1479.18	1493.41	1482.80	1513.82	1576.86	1611.27	1595.61
55	1465.74	1486.17	1470.31	1517.60	1584.49	1612.26	1598.88
56	1460.98	1481.64	1461.94	1510.93	1592.54	1608.61	1587.31
57	1456.09	1469.83	1457.54	1510.51	1587.80	1598.52	1571.38

CANDELA TABULATION - (Cont.)

58	1443.21	1474.49	1457.49	1511.53	1573.28	1582.91	1569.11
59	1429.50	1460.51	1455.65	1491.83	1554.82	1575.66	1573.63
60	1421.16	1441.82	1450.63	1474.18	1541.98	1567.43	1566.91
61	1409.55	1425.17	1444.91	1472.54	1532.59	1552.01	1543.32
62	1392.75	1415.75	1420.19	1474.32	1522.35	1554.03	1537.75
63	1380.09	1398.31	1404.50	1454.46	1519.98	1527.94	1529.31
64	1374.22	1387.41	1392.07	1443.57	1500.72	1506.12	1501.37
65	1344.00	1372.07	1368.02	1436.48	1478.01	1491.94	1489.09
66	1324.66	1346.19	1345.20	1411.58	1446.89	1478.05	1460.42
67	1301.21	1321.04	1323.12	1377.03	1428.99	1456.37	1423.14
68	1272.95	1294.81	1307.42	1348.06	1406.01	1413.75	1402.96
69	1253.69	1280.35	1292.75	1330.63	1380.17	1379.16	1377.37
70	1236.10	1255.84	1272.33	1321.26	1347.59	1356.54	1353.12
71	1215.75	1225.44	1234.01	1300.61	1318.47	1349.32	1335.72
72	1193.26	1192.45	1204.32	1277.86	1293.25	1320.09	1303.04
73	1157.04	1168.38	1178.08	1241.67	1273.02	1293.51	1262.08
74	1118.07	1146.45	1154.66	1207.09	1251.93	1252.81	1230.26
75	1098.55	1115.42	1132.19	1177.98	1220.51	1218.73	1208.53
76	1079.88	1084.15	1104.91	1142.81	1173.86	1182.17	1181.90
77	1046.14	1049.06	1081.87	1114.02	1141.72	1154.32	1143.98
78	1022.11	1026.10	1052.21	1093.56	1111.24	1128.08	1117.83
79	998.37	998.19	1012.21	1071.32	1081.37	1095.76	1081.13
80	958.64	966.33	986.28	1032.12	1052.34	1052.63	1034.63
81	923.32	936.71	958.32	992.10	1025.14	1002.82	982.78
82	898.70	903.09	923.09	949.36	983.79	968.90	953.76
83	870.91	874.30	889.50	917.17	931.22	927.97	925.69
84	847.60	846.83	864.03	887.35	901.72	896.79	898.43
85	817.83	809.01	826.33	856.12	873.36	867.99	862.14
86	788.28	781.92	796.47	828.52	846.36	838.68	821.59
87	755.35	755.30	768.40	802.57	820.58	805.19	785.10
88	728.35	734.98	736.77	772.26	792.94	766.88	752.29
89	698.67	705.43	708.14	738.40	755.67	736.63	720.53
90	677.14	670.67	686.41	709.02	719.99	705.59	688.04
91	649.72	640.23	662.34	679.82	686.50	681.08	665.76
92	622.69	614.52	630.74	649.71	663.80	646.26	638.11
93	597.44	588.93	605.26	622.06	638.30	619.90	606.25
94	572.26	563.34	580.00	595.20	609.26	591.91	574.23
95	547.08	543.92	554.75	568.34	580.16	563.88	542.22
96	520.24	517.88	528.88	541.49	551.06	540.33	521.92
97	497.75	496.94	503.87	516.00	524.29	516.45	500.54
98	471.26	473.19	479.61	488.97	499.26	492.43	477.85
99	448.67	448.66	455.85	469.11	477.54	464.59	456.49
100	427.53	424.25	433.55	446.49	451.95	441.14	430.88
101	408.00	404.25	413.36	427.74	427.07	423.91	407.08
102	386.38	385.34	392.31	407.37	406.82	407.35	390.50
103	366.21	367.57	373.32	386.41	389.22	385.41	372.98
104	347.00	348.00	354.98	366.58	372.18	364.69	355.36
105	329.71	329.51	339.40	348.97	353.30	346.98	337.47
106	313.45	312.56	322.68	331.28	335.61	331.59	320.65
107	297.90	297.59	306.37	313.87	318.20	316.08	307.21
108	283.64	283.40	291.40	299.02	302.86	301.33	293.92
109	270.53	270.01	278.09	284.58	288.49	287.58	280.76
110	259.38	257.41	265.71	272.09	275.62	274.97	268.60
111	247.85	247.07	254.45	260.82	263.75	263.72	257.32
112	237.20	237.17	243.79	250.33	253.24	252.68	247.13
113	228.06	227.75	233.95	240.23	242.99	242.40	237.25

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CANDELA TABULATION - (Cont.)

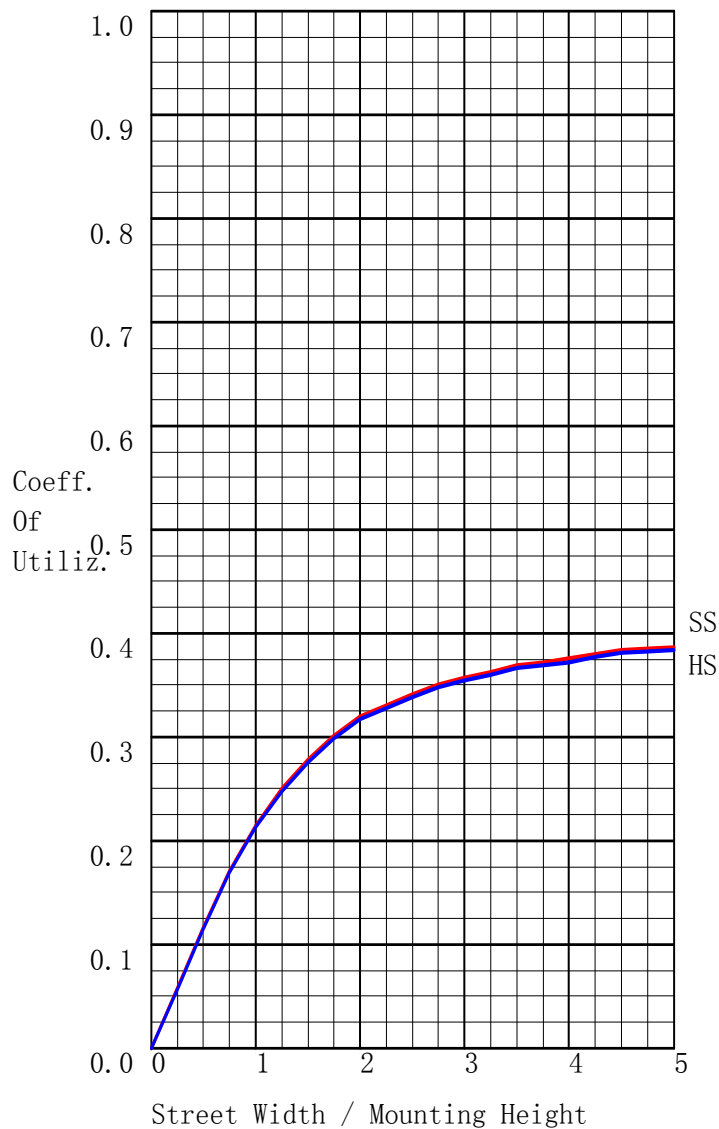
114	219.19	218.65	224.58	230.57	233.57	232.47	228.20
115	211.17	210.31	216.12	221.51	224.70	223.31	219.97
116	203.66	202.75	208.59	213.01	216.11	214.95	212.19
117	196.75	196.37	201.85	205.47	208.17	207.53	205.01
118	190.28	190.36	195.51	198.61	201.12	201.16	198.66
119	184.36	184.70	189.39	192.52	194.92	195.28	192.96
120	178.81	179.48	183.96	187.08	189.10	189.72	187.86
121	173.75	174.54	178.59	182.03	183.82	184.55	183.01
122	169.06	169.92	173.70	177.20	178.90	179.80	178.52
123	164.47	165.44	169.17	172.57	174.13	175.03	174.11
124	160.04	161.23	164.76	168.39	169.57	170.35	169.59
125	155.53	157.14	160.71	164.32	165.18	165.63	164.93
126	150.86	152.67	156.70	160.06	160.80	160.81	159.95
127	145.99	148.00	152.26	155.19	155.93	155.97	154.61
128	141.42	143.28	147.36	150.22	150.74	150.75	149.35
129	136.86	138.75	142.61	145.04	145.49	145.47	144.30
130	132.29	134.24	137.75	139.81	140.52	140.44	139.39
131	127.97	129.98	132.97	134.94	135.71	135.74	134.76
132	123.88	125.63	128.42	130.37	130.89	131.19	130.16
133	120.04	121.50	123.98	125.80	126.18	126.66	125.71
134	115.98	117.36	119.49	121.36	121.59	122.29	121.13
135	112.12	113.34	115.19	116.87	117.16	117.90	116.56
136	108.01	109.08	110.85	112.34	112.77	113.46	111.93
137	103.75	104.82	106.50	107.91	108.26	108.83	107.19
138	99.52	100.45	101.98	103.40	103.75	104.15	102.46
139	95.29	95.91	97.42	98.85	99.15	99.34	97.66
140	90.91	91.46	93.00	94.18	94.59	94.68	92.90
141	86.48	87.12	88.66	89.64	90.02	90.01	88.06
142	82.18	82.76	84.42	85.32	85.54	85.43	83.43
143	77.96	78.78	80.27	81.12	81.20	80.85	79.00
144	73.86	74.53	76.07	76.97	76.84	76.36	74.68
145	69.84	70.50	72.02	72.91	72.70	72.19	70.56
146	65.82	66.43	68.05	68.84	68.67	68.05	66.51
147	62.06	62.67	63.95	64.97	64.70	64.11	62.55
148	58.33	58.90	60.21	61.11	60.93	60.30	58.74
149	55.10	55.45	56.72	57.45	57.28	56.60	55.13
150	51.87	52.29	53.50	54.16	53.81	53.07	51.65
151	48.79	49.13	50.30	50.86	50.44	49.67	48.16
152	45.94	46.12	47.20	47.67	47.12	46.30	44.91
153	43.03	43.15	44.13	44.55	43.76	42.95	41.58
154	40.31	40.41	41.14	41.42	40.59	39.71	38.41
155	37.65	37.65	38.15	38.44	37.58	36.62	35.35
156	35.12	34.96	35.36	35.59	34.63	33.69	32.39
157	32.61	32.43	32.68	32.71	31.86	30.77	29.45
158	30.08	30.01	30.08	29.96	29.12	27.97	26.68
159	27.66	27.67	27.49	27.27	26.43	25.24	24.00
160	25.34	25.35	25.05	24.60	23.75	22.57	21.37
161	23.13	23.16	22.78	22.19	21.16	19.91	18.79
162	21.04	21.17	20.66	19.86	18.62	17.53	16.35
163	18.97	19.18	18.58	17.51	16.42	15.15	14.04
164	16.97	17.17	16.60	15.45	14.13	13.02	11.94
165	14.93	15.13	14.63	13.48	12.20	11.06	10.10
166	12.97	13.14	12.70	11.57	10.44	9.44	8.74
167	11.05	11.24	10.87	9.99	8.99	8.15	7.61
168	9.43	9.59	9.27	8.62	7.82	7.18	6.85
169	8.04	8.04	7.80	7.30	6.83	6.44	6.28

IES ROAD REPORT
PHOTOMETRIC FILENAME : CL03C-80-40K-LV-01_IESNA2002.IES

CANDELA TABULATION - (Cont.)

170	6.74	6.68	6.45	6.12	5.89	5.86	6.04
171	5.59	5.55	5.45	5.26	5.43	5.64	5.90
172	4.82	4.92	5.03	5.18	5.31	5.54	5.75
173	4.55	4.69	4.86	4.99	5.18	5.33	5.60
174	4.39	4.53	4.65	4.73	4.87	5.18	5.54
175	4.32	4.42	4.57	4.70	4.89	5.18	5.56
176	4.28	4.38	4.57	4.76	4.98	4.95	4.76
177	3.88	3.97	4.05	4.11	4.01	3.84	3.67
178	3.49	3.55	3.52	3.45	3.04	2.74	2.58
179	3.10	3.14	2.99	2.79	2.06	1.63	1.49
180	0.40	0.40	0.40	0.40	0.40	0.40	0.40

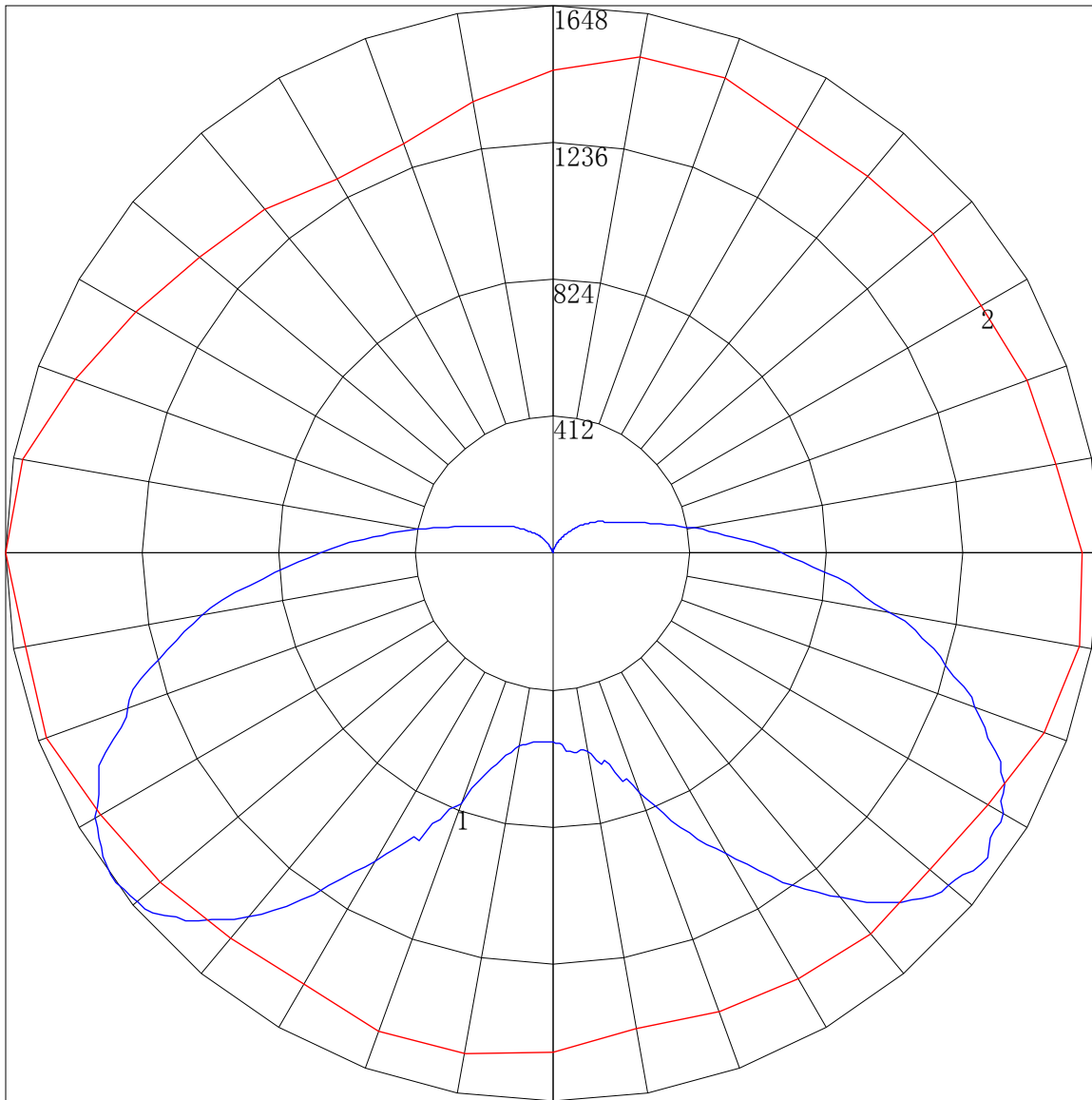
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

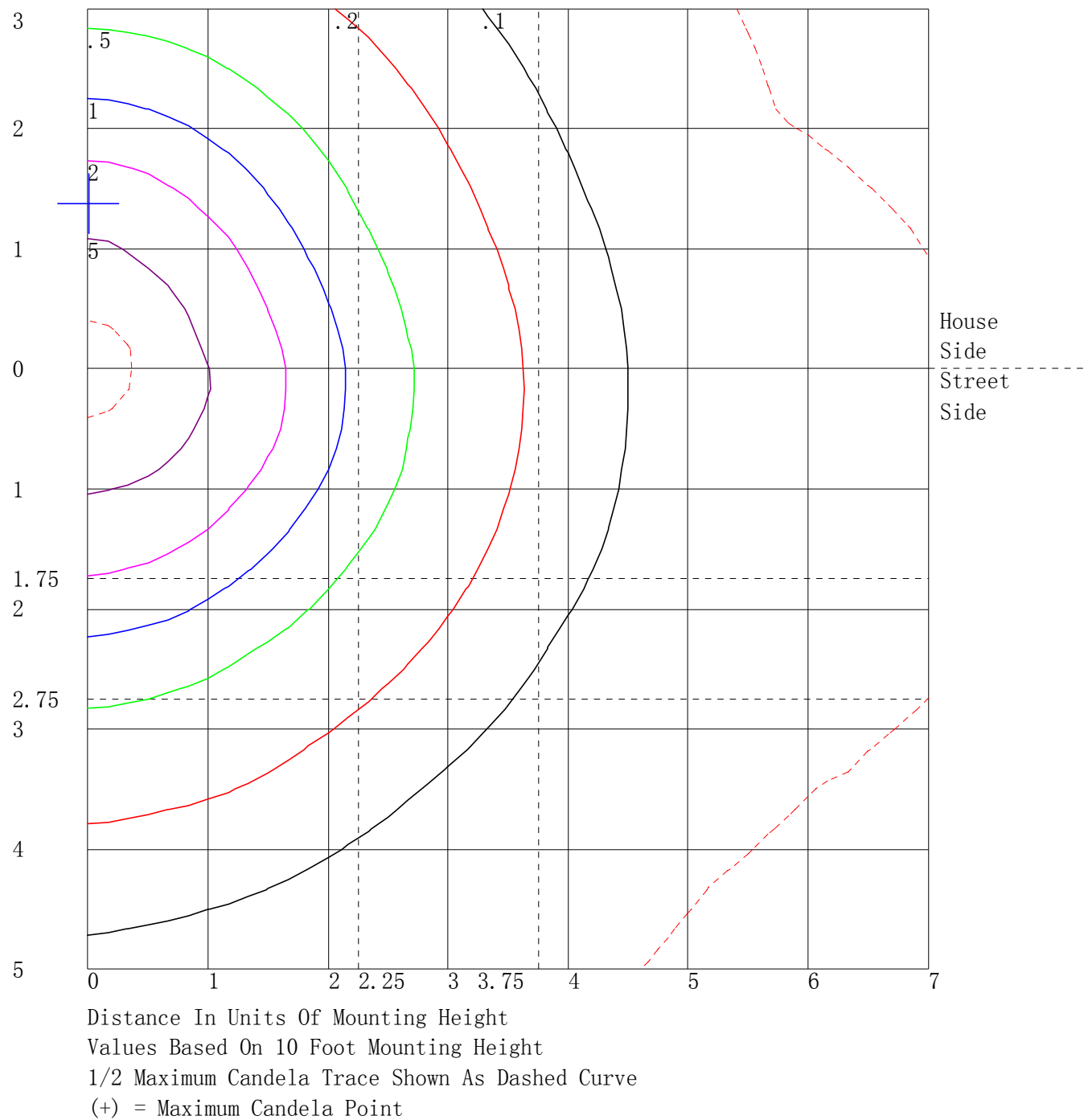
	Lumens	Percent Of Lamp
Downward Street Side	3650.8	42.3
Downward House Side	3631.8	42.1
Downward Total	7282.6	84.3
Upward Street Side	697.0	8.1
Upward House Side	657.2	7.6
Upward Total	1354.2	15.7
Total Flux	8636.8	100.0

POLAR GRAPH

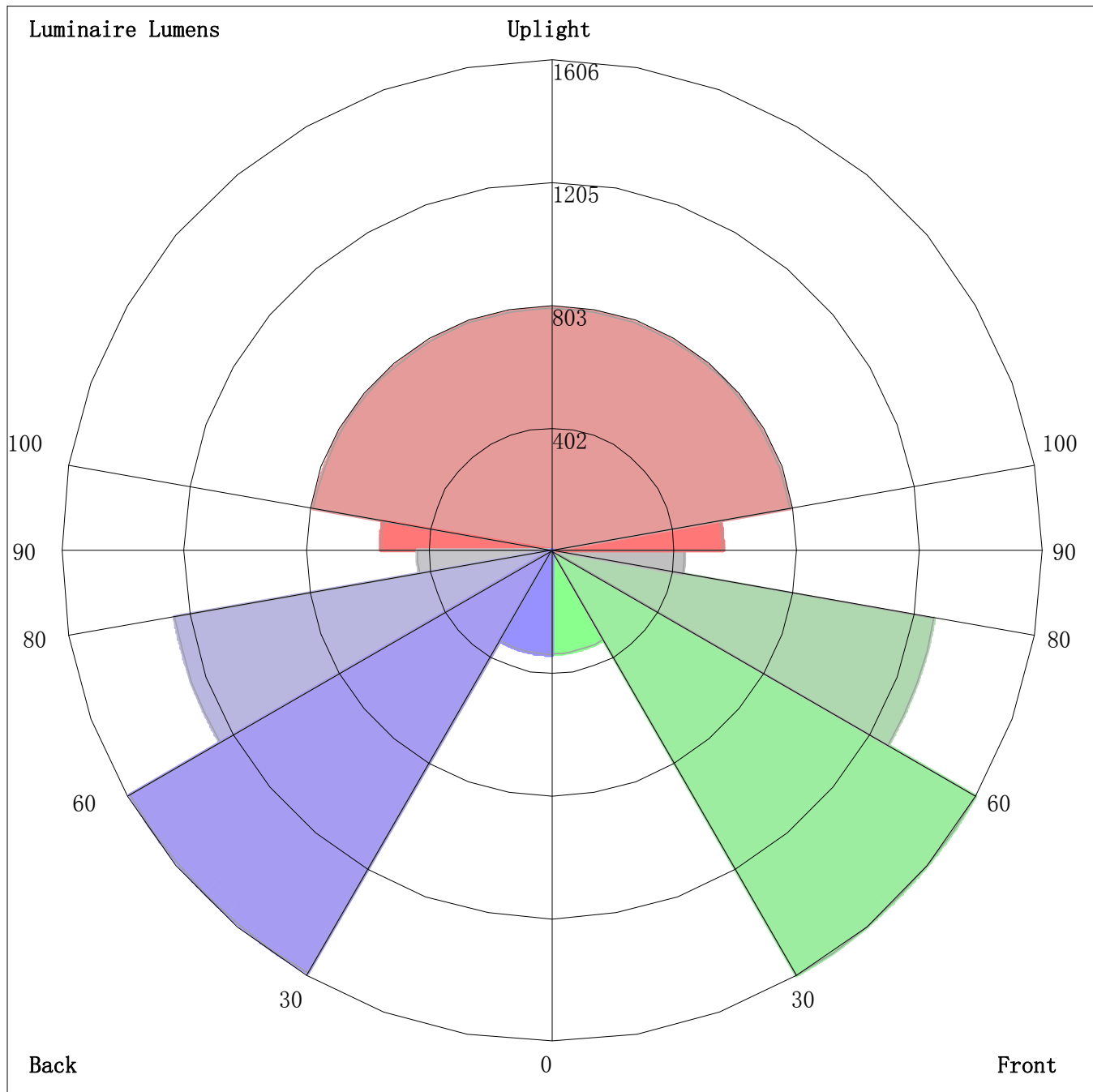


Maximum Candela = 1648.08 Located At Horizontal Angle = 180, Vertical Angle = 54
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (54) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=336.9, Medium=1606.2, High=1272.9, Very High=434.8
Back: Low=339.9, Medium=1596.8, High=1255.3, Very High=439.8
Uplight: Low=561.4, High=792.7

BUG Rating : B3-U4-G3