IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-MJ-50W-LED-XX-WLM.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 193036
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2021-04-05 16:17:58
[ISSUEDATE] 2021-04-05 16:17:58
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] EPL-MJ-50W-LED-XX-WLM-50K
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED MASON JAR FIXTURE
[MORE] WALL MOUNT, 5000K
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS



IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	7471 (1 lamp)
Total Lamp Lumens	7471
Luminaire Lumens	7469
Downward Total Efficiency	73 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	49.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.27
Maximum Candela	1105.366
Maximum Candela Angle	247.5H 46.5V
Maximum Candela (<90 Degrees Vertical)	1105.366
Maximum Candela Angle (<90 Degrees Vertical)	247.5H 46.5V
Maximum Candela At 90 Degrees Vertical	789.724 (10.6% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	863.724 (11.6% Lamp Lumens)
Cutoff Classification (deprecated)	Non-Cutoff

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	289.0	3.9	3.9
FM - Front-Medium (30-60)	1121.1	15.0	15.0
FH - Front-High (60-80)	915.8	12.3	12.3
FVH - Front-Very High (80-90)	423.7	5.7	5.7
BL - Back-Low (0-30)	286.7	3.8	3.8
BM - Back-Medium (30-60)	1086.8	14.5	14.6
BH - Back-High (60-80)	907.5	12.1	12.2
BVH - Back-Very High (80-90)	421.6	5.6	5.6
UL - Uplight-Low (90-100)	730.6	9.8	9.8
UH - Uplight-High (100-180)	1286.4	17.2	17.2
Total	7469.2	99.9	100.0
BUG Rating	B2-U5-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	797.424	797.424	797.424	797.424	797.424	797.424	797.424	797.424	797.424	797.424
0.5	801.544	801.784	791.904	798.544	791.304	796.664	785.464	795.484	795.824	796.084
1.0	784.084	805.024	775.864	798.184	775.404	794.264	788.584	783.744	788.284	799.844
1.5	776.924	783.864	762.764	778.364	768.444	788.604	798.644	779.304	800.864	781.024
2.0	773.464	772.184	755.064	768.984	764.264	789.284	793.964	789.084	810.564	776.244
2.5	779.444	765.444	753.184	761.744	764.304	792.164	788.884	809.964	809.064	799.404
3.0	792.624	763.124	753.244	751.124	764.144	790.124	787.164	813.764	808.504	802.144
3.5	802.764	766.624	745.024	738.004	758.764	789.324	792.804	808.844	812.664	788.504
4.0	802.764	771.344	739.504	734.624	755.984	789.904	795.964	804.064	815.544	776.864
4.5	802.424	773.204	742.924	740.804	757.084	786.044	796.324	803.144	814.124	776.844
5.0	798.944	776.524	745.584	745.764	755.984	779.024	796.684	789.924	807.664	786.924
5.5	797.444	773.104	739.764	749.364	754.644	772.004	796.924	779.324	796.444	793.624
6.0	794.044	777.404	733.244	749.604	753.604	770.024	795.684	777.184	785.904	784.464
6.5	785.904	777.984	730.944	747.284	761.104	766.784	797.464	778.304	781.104	777.184
7.0	787.524	771.584	736.424	743.004	769.424	760.764	796.944	780.584	778.924	773.084
7.5	789.784	768.004	746.524	739.584	766.344	756.224	791.924	792.664	787.044	774.044
8.0	785.484	768.144	750.484	743.844	759.364	751.284	783.584	793.924	784.544	772.104
8.5	787.044	768.824	740.904	760.044	748.044	751.424	780.764	788.204	776.644	781.984
9.0	782.644	771.144	728.304	774.124	742.164	747.324	784.664	776.384	766.724	783.684
9.5	762.804	767.864	718.884	781.164	739.684	737.884	785.364	766.724	754.384	774.424
10.0	739.344	759.424	715.484	783.484	737.844	725.084	781.844	764.944	741.964	767.224
10.5	730.244	750.364	714.804	760.044	732.764	714.144	772.584	771.664	737.944	767.804
11.0	731.304	753.684	721.544	729.964	731.224	710.764	758.284	772.024	753.584	779.044
11.5	717.904	739.984	731.524	705.004	728.144	715.384	753.704	757.764	754.624	778.384
12.0	710.844	726.584	727.164	698.083	718.264	722.064	747.584	752.284	764.004	769.004
12.5	709.104	733.744	718.884	701.324	709.644	723.664	742.764	745.424	767.044	763.744
13.0	702.684	738.644	710.404	700.824	707.064	716.744	744.944	736.644	761.284	764.484
13.5	691.643	728.664	703.124	690.943	703.584	704.104	746.364	741.164	754.024	762.184
14.0	685.863	708.804	709.604	680.783	690.263	698.203	731.804	743.124	751.744	746.844
14.5	675.023	701.784	708.564	676.263	674.823	700.204	722.944	741.344	749.584	734.104
15.0	664.943	705.264	705.304	675.103	663.403	701.344	722.604	738.984	745.684	723.484
15.5	663.043	711.344	705.824	669.123	662.323	700.424	723.264	732.124	739.624	718.764
16.0	658.163	715.904	707.824	667.343	663.283	709.364	711.884	720.084	732.804	717.924
16.5	647.803	708.784	694.663	666.403	666.563	727.244	699.124	711.684	722.004	712.804
17.0	632.563	690.983	677.923	657.543	661.283	744.464	686.903	705.324	712.544	702.944
17.5	620.863	668.483	667.723	637.483	650.343	742.804	682.103	695.523	709.564	694.783
18.0	616.763	662.183	664.623	623.463	641.083	729.144	674.463	682.683	706.064	681.103
18.5	616.163	660.923	653.003	619.863	637.483	713.024	665.103	667.003	700.844	664.103
19.0	621.623	664.303	649.603	620.403	638.823	705.944	656.963	657.623	693.683	648.363
19.5	638.243	682.363	654.483	622.083	643.423	706.524	645.363	647.203	682.983	638.323
20.0	640.423	690.063	638.703	619.483	648.363	712.344	633.863	635.623	675.703	630.983
20.5	612.323	659.923	617.443	613.243	644.623	708.204	622.463	624.983	669.243	619.523
21.0	592.323	637.623	622.603	606.883	642.243	688.223	613.783	613.143	663.583	614.543
21.5	602.523	639.843	619.583	612.423	634.523	661.743	609.023	603.983	658.643	620.483
22.0	624.843	648.943	611.783	619.243	629.483	647.043	609.623	598.323	650.443	636.623
22.5	629.543	651.083	608.423	618.743	630.083	636.483	616.763	598.023	643.583	646.863
23.0	610.303	632.443	615.823	604.263	631.823	628.363	619.763	603.323	635.903	636.443
23.5	594.463	621.043	618.383	602.423	630.763	625.443	610.843	610.703	637.743	624.163
24.0	600.623	628.683	620.203	604.783	633.463	621.963	598.223	618.463	635.723	626.503
24.5	613.323	642.643	625.803	605.103	638.883	620.303	591.223	612.163	632.043	635.923
25.0	623.403	656.423	626.383	603.443	639.843	625.283	596.003	593.543	630.823	644.043
25.5	627.023	652.463	636.583	593.183	638.443	630.803	606.883	584.523	635.643	644.843
26.0	629.583	642.343	644.883	590.123	630.383	639.083	610.943	584.783	645.123	634.223

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CANDELA TABULATION - (Cont.)

26.5	649.063	643.343	648.523	599.503	619.523	651.903	612.403	593.083	646.103	620.003
27.0	687.523	656.283	656.543	612.643	616.583	651.163	612.703	600.323	648.383	620.803
27.5	747.304	675.203	663.743	626.443	625.123	654.543	612.063	599.743	647.343	635.663
28.0	817.644	693.923	677.463	643.343	641.303	651.543	615.583	600.783	643.083	659.803
28.5	875.924	718.144	698.283	660.763	658.363	652.103	629.783	604.163	641.183	687.183
29.0	889.424	732.464	724.524	683.023	674.503	657.803	647.963	611.383	646.383	712.684
29.5	875.624	747.404	755.624	708.824	688.783	669.663	665.103	623.023	662.743	726.864
30.0	821.784	776.484	786.684	742.504	713.424	675.523	685.503	644.843	681.223	748.044
30.5	779.004	805.384	811.904	788.524	747.724	682.343	705.264	670.543	700.324	787.484
31.0	781.644	833.764	829.224	823.584	788.024	687.643	730.604	692.223	714.644	826.724
31.5	806.544	860.384	844.144	838.904	825.844	694.783	756.824	716.724	728.684	866.184
32.0	840.104	872.324	863.744	819.004	839.524	707.584	786.824	743.224	751.944	885.024
32.5	903.805	881.544	883.844	785.984	829.204	727.764	814.484	775.024	774.644	884.484
33.0	938.685	885.344	902.745	736.104	805.184	761.104	815.164	802.304	798.844	862.224
33.5	905.025	881.144	916.785	718.724	777.664	786.524	790.024	817.004	820.504	830.304
34.0	847.284	879.804	949.985	731.404	755.284	806.464	759.764	811.044	845.924	796.904
34.5	811.144	880.904	978.885	759.664	752.604	825.004	735.584	780.224	868.284	785.624
35.0	812.704	890.884	974.045	809.404	772.264	835.864	732.724	736.964	876.084	807.444
35.5	827.084	914.925	956.325	851.744	809.764	846.784	747.464	718.864	881.344	863.464
36.0	853.604	939.505	975.045	879.604	858.324	862.004	778.724	716.224	900.365	916.765
36.5	882.664	944.785	996.305	921.345	891.704	869.544	826.124	736.164	919.725	944.085
37.0	910.185	939.745	1002.125	945.125	906.865	876.344	869.404	782.884	934.905	971.145
37.5	939.965	949.685	1005.805	927.285	932.105	890.804	912.885	848.544	951.645	997.065
38.0	970.745	971.425	1006.225	881.024	943.145	906.885	941.425	888.704	981.165	1008.105
38.5	984.885	985.785	1018.105	835.844	929.205	919.625	937.765	925.825	993.985	991.045
39.0	973.585	989.345	1026.465	803.524	904.825	921.985	898.364	953.485	968.925	961.185
39.5	949.745	1001.665	1033.585	789.224	882.104	910.905	845.684	941.265	936.485	930.265
40.0	933.885	1027.825	1025.585	800.364	865.664	904.745	805.804	897.184	929.785	914.625
40.5	929.385	1033.305	1006.585	827.304	862.664	899.705	793.704	849.264	930.605	914.385
41.0	941.405	1013.685	991.085	856.024	879.864	895.564	797.004	813.764	927.945	937.905
41.5	958.285	1002.065	991.125	884.064	899.845	905.105	811.884	805.304	938.985	965.725
42.0	970.705	1004.465	992.405	906.205	910.785	921.145	833.664	813.824	955.945	982.025
42.5	973.865	1011.765	990.525	928.945	912.505	940.125	862.004	830.824	965.825	987.765
43.0	974.805	1015.785	989.665	950.705	919.625	965.205	891.464	846.644	973.705	1003.605
43.5	980.345	1015.385	994.345	964.745	941.405	969.505	928.645	865.224	991.245	1027.285
44.0	993.245	1016.525	998.405	969.985	970.905	961.165	958.825	898.324	1006.565	1044.745
44.5	1012.025	1017.625	1000.045	964.905	986.785	948.545	970.785	932.925	1006.805	1044.805
45.0	1026.965	1015.025	1004.125	957.305	988.325	942.885	966.905	956.805	997.205	1029.045
45.5	1036.925	1011.005	1013.085	951.665	984.365	942.105	962.985	959.245	984.125	1012.305
46.0	1045.025	1009.565	1019.365	949.725	980.185	945.485	964.105	955.185	977.405	1011.565
46.5	1050.065	1012.365	1022.485	946.185	979.545	947.705	959.485	958.745	973.925	1018.545
47.0	1053.405	1012.265	1021.245	939.265	978.505	947.165	943.465	973.965	973.305	1023.865
47.5	1049.265	1006.785	1018.125	929.725	973.965	950.505	911.805	979.565	978.945	1016.825
48.0	1036.525	1003.545	1015.405	923.865	964.585	959.485	886.604	963.045	992.165	1007.525
48.5	1022.625	1004.845	1004.125	926.245	957.365	969.245	875.624	934.925	1002.205	1006.945
49.0	1015.965	1009.545	989.625	932.605	956.085	974.905	881.504	914.785	1012.365	1013.705
49.5	1011.865	1011.105	978.125	940.165	952.945	973.625	895.084	913.825	1017.165	1020.485
50.0	1008.925	1011.225	970.065	947.925	947.725	970.185	911.045	919.525	1016.325	1020.825
50.5	1006.545	1011.245	965.605	956.285	940.925	965.705	922.025	918.925	1007.765	1021.225
51.0	1009.185	1005.585	964.125	970.005	938.005	962.205	932.025	919.365	998.125	1016.105
51.5	1015.665	998.505	963.605	986.305	941.105	956.565	941.605	924.265	986.845	1013.385
52.0	1023.785	990.645	964.805	997.265	948.925	952.245	950.985	935.865	971.725	1012.985
52.5	1025.925	986.545	967.205	1005.605	959.765	944.305	959.125	948.405	963.825	1016.445
53.0	1022.925	985.065	972.005	1006.585	972.365	937.645	960.145	954.605	959.265	1021.785
53.5	1017.825	984.265	975.505	999.305	984.705	934.505	960.325	956.645	954.445	1027.445
54.0	1014.025	982.085	977.565	990.305	991.445	936.525	961.765	959.565	951.205	1031.245

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CANDELA TABULATION - (Cont.)

54.5	1011.765	977.685	978.725	983.245	990.265	942.525	963.085	964.265	951.985	1034.385
55.0	1009.925	973.305	976.685	975.625	985.445	945.945	964.445	968.925	954.045	1035.665
55.5	1004.685	969.565	972.005	965.845	980.705	950.345	960.025	973.905	956.665	1038.065
56.0	996.025	966.285	968.225	954.605	973.385	953.665	948.065	978.185	959.685	1035.365
56.5	988.885	962.505	963.285	943.905	959.905	955.945	930.305	979.365	964.905	1026.745
57.0	982.905	958.005	955.625	938.405	944.925	957.725	914.085	973.325	970.525	1012.205
57.5	979.485	952.345	948.445	935.185	928.505	957.925	902.965	961.465	974.185	997.845
58.0	976.805	947.045	943.005	931.485	918.865	955.725	897.944	947.345	973.845	985.445
58.5	974.965	941.705	939.645	926.025	913.365	952.005	893.604	930.905	969.945	974.425
59.0	973.065	938.005	937.885	921.085	909.705	948.225	889.004	911.825	963.825	966.185
59.5	970.585	935.285	936.425	919.705	907.725	942.485	886.504	897.124	954.385	958.625
60.0	970.025	933.805	936.205	921.765	907.565	936.685	884.464	889.684	945.245	953.865
60.5	971.465	931.005	937.485	925.945	910.065	927.665	881.424	887.804	936.385	951.225
61.0	972.825	928.965	939.125	931.505	911.085	916.785	880.124	887.524	929.325	950.165
61.5	972.365	927.085	940.665	936.405	910.865	908.545	881.624	887.444	922.745	950.465
62.0	970.185	925.725	941.385	939.505	911.985	901.345	885.344	887.844	916.585	952.145
62.5	967.025	924.605	942.145	941.065	912.965	898.604	890.664	891.384	912.185	954.745
63.0	962.485	924.285	942.805	940.765	911.485	898.144	894.564	896.384	909.525	956.845
63.5	956.965	924.285	942.205	937.805	908.205	900.785	897.184	901.225	908.685	957.645
64.0	951.805	924.465	941.645	931.545	903.725	905.765	899.125	904.685	909.785	958.205
64.5	946.205	924.185	939.865	923.985	898.624	912.345	898.184	906.545	912.405	956.745
65.0	941.105	924.145	937.885	915.125	893.364	918.105	892.284	908.965	914.925	953.745
65.5	935.185	923.665	934.645	907.465	889.824	922.945	883.964	908.285	918.005	948.645
66.0	928.805	922.305	930.645	901.065	887.624	927.965	875.064	903.565	920.745	942.805
66.5	923.505	919.505	925.545	895.024	883.844	930.165	865.184	893.484	923.085	936.105
67.0	917.265	916.545	920.285	890.524	880.684	928.985	858.544	882.804	923.525	927.725
67.5	910.945	913.385	916.525	886.904	878.724	924.825	854.504	871.924	922.305	919.805
68.0	905.585	910.765	913.185	885.204	875.764	918.205	851.364	864.184	919.405	911.605
68.5	900.965	907.745	910.525	884.624	870.104	910.425	847.284	860.324	916.825	903.605
69.0	898.184	903.325	908.145	884.084	861.984	903.685	842.984	858.104	915.385	896.864
69.5	895.844	899.165	905.265	882.664	855.164	897.224	839.964	856.124	913.725	888.984
70.0	893.384	894.564	903.065	880.424	848.764	892.884	837.744	853.484	910.825	883.084
70.5	890.064	890.464	902.045	877.464	842.524	888.704	835.744	851.184	906.405	878.944
71.0	885.304	887.844	900.845	875.484	838.604	885.944	833.264	847.984	902.665	876.364
71.5	880.104	885.544	898.384	872.484	837.224	885.084	831.504	842.924	899.885	874.724
72.0	873.984	883.684	894.564	870.024	837.204	884.864	831.344	838.164	896.984	874.064
72.5	867.704	880.944	891.524	865.604	836.844	886.364	832.764	834.504	895.464	874.344
73.0	861.664	878.144	889.524	860.404	834.184	889.084	833.024	831.904	894.184	874.784
73.5	855.144	875.184	886.704	855.244	830.664	891.164	830.504	828.744	892.884	875.004
74.0	849.804	873.044	881.884	849.084	828.004	891.984	824.604	824.864	891.444	872.584
74.5	844.044	870.724	878.264	842.224	825.624	891.204	818.504	821.404	889.964	867.644
75.0	839.504	867.644	876.544	835.764	822.584	889.524	811.524	816.164	888.004	860.944
75.5	835.524	865.364	874.584	831.664	819.744	886.244	805.184	810.124	885.084	853.524
76.0	831.184	863.424	873.384	828.704	818.164	880.604	798.724	803.604	882.484	846.624
76.5	827.184	861.904	873.664	825.604	813.044	873.484	790.724	797.264	880.604	839.224
77.0	822.264	859.664	873.024	823.024	805.204	865.924	781.884	793.584	878.844	831.124
77.5	817.124	855.624	871.124	818.544	800.444	861.084	772.884	790.584	874.724	823.544
78.0	812.064	852.744	869.024	812.544	799.104	857.924	767.164	787.104	870.024	816.404
78.5	806.424	850.984	866.424	807.104	798.944	856.064	763.564	782.764	867.204	813.244
79.0	801.664	849.744	864.704	801.584	798.964	854.604	761.764	777.324	866.004	812.764
79.5	796.924	847.664	862.244	797.084	798.104	852.364	761.544	772.904	864.404	812.204
80.0	792.284	844.644	858.324	792.344	796.244	851.524	759.044	769.124	863.364	810.224
80.5	788.424	841.304	852.964	786.804	794.484	851.044	756.984	766.584	861.184	808.604
81.0	784.024	837.344	848.424	782.424	793.584	849.584	756.984	763.024	857.364	809.164
81.5	779.164	833.104	843.084	777.384	792.424	848.884	757.604	757.284	853.444	808.404
82.0	773.944	827.264	836.624	772.884	790.464	847.484	756.944	752.564	849.104	805.424

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CANDELA TABULATION - (Cont.)

82.5	768.884	820.384	829.324	767.684	783.624	845.164	752.724	749.484	844.584	800.924
83.0	763.584	814.324	822.024	761.264	776.344	840.344	745.544	747.304	837.284	792.884
83.5	756.824	808.924	816.224	754.884	769.544	831.304	736.604	744.664	830.544	783.044
84.0	750.364	803.804	811.044	747.764	763.024	822.264	725.704	739.804	822.764	773.244
84.5	743.564	798.804	806.864	741.204	758.624	812.064	715.504	734.684	813.844	763.204
85.0	736.224	794.864	803.944	734.544	754.344	804.704	706.424	728.304	807.064	755.084
85.5	730.204	792.144	801.104	728.264	751.464	799.504	698.083	721.584	800.204	747.884
86.0	724.524	789.524	799.084	723.084	749.004	796.184	692.183	714.104	794.784	743.184
86.5	720.464	787.424	797.044	719.244	747.204	792.864	687.243	706.244	790.764	739.504
87.0	716.084	785.744	794.164	715.484	745.764	790.544	684.523	700.544	788.084	736.764
87.5	712.684	783.784	791.364	712.464	744.744	790.004	683.223	695.463	786.204	736.124
88.0	709.424	781.664	787.404	708.984	743.004	789.804	682.403	692.043	784.884	735.584
88.5	705.044	778.804	783.104	705.304	740.264	789.584	682.623	689.563	784.004	735.084
89.0	700.424	775.204	778.324	700.984	736.824	788.784	683.223	688.183	782.524	734.704
89.5	693.643	771.624	772.324	695.103	732.684	786.624	682.143	687.943	780.704	734.044
90.0	686.163	766.824	766.444	688.243	726.744	783.024	677.803	687.203	778.384	731.224
90.5	678.283	761.564	760.044	679.343	721.024	777.304	669.623	685.363	774.304	725.104
91.0	669.583	755.084	753.164	670.863	714.704	768.524	660.583	682.343	768.644	717.784
91.5	661.883	748.024	746.764	662.763	708.244	759.924	650.303	677.123	761.184	709.804
92.0	654.623	741.584	740.004	654.243	702.784	750.524	641.843	670.763	752.044	701.264
92.5	646.843	734.764	734.084	647.183	696.823	742.904	633.963	662.903	743.524	693.803
93.0	640.123	728.584	728.204	640.343	691.583	736.684	627.803	655.423	735.764	686.823
93.5	632.043	723.224	723.584	634.023	686.363	730.964	622.143	648.643	728.184	681.603
94.0	625.003	717.344	719.444	628.223	681.223	725.984	616.103	642.103	722.184	676.943
94.5	617.983	712.544	714.444	621.423	676.683	720.524	610.923	636.883	715.464	672.083
95.0	610.343	707.984	709.744	615.523	671.283	715.284	605.763	631.843	709.804	668.463
95.5	603.243	704.184	704.584	608.423	666.863	710.464	601.383	627.543	704.804	664.383
96.0	595.463	698.883	699.324	602.183	662.423	705.204	597.383	622.983	700.104	660.183
96.5	588.183	693.403	694.583	595.543	658.123	700.304	593.323	618.403	695.583	655.983
97.0	582.103	687.643	689.763	589.523	653.983	695.223	589.883	613.903	690.943	651.183
97.5	575.223	681.203	684.563	584.083	649.943	690.903	586.183	608.283	687.063	647.003
98.0	568.323	674.483	678.563	577.583	646.083	686.803	582.663	603.403	683.183	642.543
98.5	560.383	667.623	673.563	572.283	641.883	682.663	579.103	598.243	678.403	638.063
99.0	553.563	661.363	667.943	566.143	637.383	679.223	574.723	592.823	673.943	633.463
99.5	546.983	654.863	662.123	559.363	632.763	675.623	570.083	587.763	668.763	628.563
100.0	538.823	648.043	656.903	553.083	627.763	672.343	564.363	581.703	664.323	624.343
100.5	531.143	642.943	650.963	545.943	623.023	668.123	558.803	576.483	659.083	618.943
101.0	522.923	637.003	645.803	539.383	617.463	662.823	552.903	571.443	652.483	613.683
101.5	515.803	631.203	640.343	532.583	611.403	657.543	546.303	565.783	646.823	608.423
102.0	509.603	626.023	633.323	524.643	605.983	650.423	540.463	560.863	640.383	602.243
102.5	502.983	621.103	626.143	517.183	600.003	643.863	534.763	555.243	634.483	596.323
103.0	497.062	616.603	618.943	509.023	594.303	637.383	530.263	550.183	629.223	589.223
103.5	490.302	610.543	611.263	502.283	588.883	630.763	525.983	544.783	623.083	582.603
104.0	484.602	605.023	603.743	495.662	582.823	625.303	521.463	538.443	616.943	575.923
104.5	478.282	599.243	596.423	488.782	577.723	619.263	516.923	532.563	610.463	568.783
105.0	471.222	592.923	590.843	482.082	571.723	614.123	511.543	526.243	604.343	563.383
105.5	464.342	587.563	584.603	474.842	565.903	608.423	506.343	520.143	598.783	557.943
106.0	456.002	581.543	578.503	468.622	560.323	602.363	501.063	514.303	593.203	552.383
106.5	449.762	575.783	572.923	462.502	554.003	596.883	495.002	507.823	587.543	546.803
107.0	443.282	570.783	566.163	455.962	548.563	590.663	489.782	502.003	580.963	540.743
107.5	435.982	565.083	560.163	450.382	541.783	585.083	484.182	496.042	574.783	534.983
108.0	430.302	560.043	553.743	444.282	535.443	579.163	477.562	490.602	568.783	528.283
108.5	424.242	553.623	547.963	438.922	529.643	572.223	471.382	485.042	561.683	521.543
109.0	418.762	547.163	541.823	433.502	522.863	565.823	464.082	478.222	554.943	514.703
109.5	413.002	541.923	535.043	427.462	516.503	557.403	457.202	471.962	547.923	506.303
110.0	406.802	536.003	528.563	422.222	509.763	550.223	450.222	464.202	541.683	498.922

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CANDELA TABULATION - (Cont.)

110.5	402.242	530.323	521.283	416.122	503.423	544.083	442.422	457.302	535.303	491.422
111.0	397.382	524.363	514.943	410.762	496.622	537.203	435.942	450.462	528.283	485.082
111.5	392.442	518.943	508.203	405.122	489.022	531.263	428.682	443.162	522.063	478.702
112.0	387.622	513.503	500.523	398.802	482.142	525.303	422.842	436.582	515.143	471.142
112.5	382.362	506.563	493.622	393.582	474.802	518.483	416.262	429.322	509.383	464.082
113.0	376.982	500.523	486.402	387.602	468.322	512.203	410.762	422.682	503.463	456.602
113.5	371.742	493.282	479.462	382.262	461.942	505.403	405.422	416.582	496.682	449.302
114.0	366.682	485.882	472.942	376.602	454.982	499.162	399.522	409.642	490.662	441.942
114.5	361.682	478.762	464.902	370.982	448.922	492.422	394.062	403.582	483.342	433.842
115.0	355.982	470.062	457.602	365.482	441.762	486.162	388.742	397.362	476.562	426.842
115.5	350.922	461.922	448.522	360.082	434.762	479.402	382.862	392.142	469.762	419.102
116.0	345.322	453.442	440.822	355.222	427.682	472.102	377.462	386.922	462.362	412.122
116.5	339.642	444.782	432.502	350.722	420.022	465.562	371.302	381.242	455.702	404.942
117.0	334.582	435.942	423.702	345.302	412.482	458.182	365.442	375.562	447.962	396.562
117.5	329.342	426.882	414.782	340.502	403.602	450.782	359.502	368.822	440.742	388.802
118.0	323.862	418.802	406.042	334.482	396.402	443.642	353.182	362.662	433.422	380.522
118.5	317.802	408.902	396.202	329.262	389.082	435.162	347.282	356.582	425.462	373.122
119.0	312.782	400.882	387.402	324.062	381.362	427.542	340.722	349.742	418.422	366.182
119.5	307.102	392.322	377.602	318.282	374.082	419.082	334.762	343.562	410.382	358.942
120.0	301.602	381.342	369.122	312.902	365.702	411.782	329.002	336.702	402.282	352.682
120.5	296.201	372.022	360.802	308.282	358.322	404.382	322.902	330.782	393.082	345.262
121.0	290.541	362.002	351.582	303.702	350.842	395.822	317.342	325.002	382.602	338.122
121.5	285.061	353.122	343.382	299.421	342.442	387.742	311.242	318.542	373.562	330.522
122.0	279.441	344.382	334.002	295.041	335.222	378.262	305.382	313.262	363.882	321.482
122.5	273.481	334.842	325.522	291.041	327.282	369.422	299.441	307.462	355.682	313.062
123.0	267.541	326.142	316.742	286.341	319.562	359.902	292.481	301.742	347.842	303.342
123.5	261.961	316.302	306.182	280.861	310.602	349.922	286.061	296.081	339.342	294.561
124.0	256.101	304.222	295.581	275.701	300.742	340.282	278.641	290.021	331.362	286.461
124.5	250.481	292.941	282.421	269.501	292.601	331.062	271.861	284.181	320.482	277.281
125.0	243.561	282.221	268.141	264.261	284.741	320.982	264.821	276.681	308.382	268.901
125.5	237.221	269.521	253.461	259.021	275.821	311.722	256.601	269.561	296.041	260.021
126.0	230.641	257.561	238.321	253.461	265.981	298.801	249.781	263.101	282.981	251.561
126.5	220.481	242.701	225.521	248.601	250.021	285.301	243.021	256.281	271.501	240.241
127.0	210.781	231.321	211.801	243.441	235.661	270.481	237.641	250.301	258.181	223.081
127.5	201.181	216.721	197.861	237.801	221.561	256.561	231.941	244.501	244.621	209.101
128.0	192.501	202.581	183.461	230.141	209.861	243.361	221.401	238.841	230.201	196.881
128.5	182.541	188.681	168.721	220.661	199.201	226.861	208.521	228.581	213.521	187.001
129.0	170.101	173.721	156.981	210.661	185.521	212.041	192.841	212.541	199.581	173.421
129.5	160.001	161.221	145.321	197.881	173.381	199.021	180.761	198.321	183.941	158.721
130.0	150.021	146.341	130.961	187.701	162.501	185.041	171.581	186.221	168.241	148.441
130.5	138.701	133.181	119.421	178.441	151.481	172.321	160.381	177.481	151.501	138.041
131.0	125.321	121.881	110.421	167.361	140.201	157.101	147.461	166.941	138.561	126.641
131.5	115.761	111.201	101.421	158.101	126.701	144.741	134.481	153.981	128.861	115.141
132.0	109.381	101.121	90.160	145.561	116.041	134.221	126.261	143.281	115.621	107.721
132.5	93.020	88.740	79.240	134.181	109.681	122.481	119.341	132.761	103.061	97.520
133.0	83.060	76.780	71.580	125.861	94.620	111.781	111.001	123.941	91.560	84.620
133.5	75.340	73.360	63.700	115.381	83.940	99.901	93.240	112.621	77.500	74.260
134.0	66.100	65.700	55.500	102.721	75.860	89.780	83.380	98.940	74.820	67.100
134.5	53.660	57.800	48.120	89.260	70.160	82.640	77.820	87.760	65.160	58.740
135.0	47.840	50.020	40.620	74.800	62.240	73.940	69.360	76.320	55.260	50.660
135.5	43.740	44.220	35.000	75.060	52.220	64.700	57.740	71.340	46.140	43.820
136.0	35.900	38.600	29.240	63.660	45.540	56.040	47.940	60.760	40.040	37.820
136.5	32.900	32.280	24.140	56.480	38.900	49.020	38.640	49.860	34.960	30.420
137.0	27.080	26.700	20.920	51.180	32.380	40.960	35.440	41.340	29.500	24.000
137.5	21.480	21.540	15.840	43.880	27.240	35.120	30.820	35.400	23.680	19.080
138.0	17.160	16.060	11.040	39.160	21.420	29.560	23.200	31.160	19.260	14.720

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CANDELA TABULATION - (Cont.)

138.5	11.880	12.240	8.500	33.660	16.700	22.760	20.540	25.980	15.380	11.000
139.0	9.580	8.900	5.960	27.060	11.640	19.000	14.540	21.700	12.440	8.200
139.5	4.780	6.060	4.960	22.900	8.440	13.940	11.580	17.320	9.420	5.180
140.0	3.980	5.480	4.440	17.260	4.860	10.020	8.740	13.860	8.140	4.200
140.5	3.660	5.100	4.140	13.140	4.160	7.820	4.820	9.800	7.280	3.700
141.0	3.360	4.620	3.700	6.260	3.960	6.880	4.380	6.980	6.740	3.440
141.5	3.000	4.360	3.440	5.660	3.760	6.380	4.060	6.280	6.040	3.060
142.0	2.780	4.000	3.140	5.260	3.580	5.920	3.620	5.600	5.480	2.740
142.5	2.600	3.720	2.800	4.880	3.300	5.520	3.440	5.000	5.220	2.600
143.0	2.360	3.540	2.660	4.420	3.060	5.260	3.120	4.520	4.760	2.420
143.5	2.120	3.300	2.380	4.060	2.660	4.900	3.000	4.180	4.180	2.300
144.0	2.100	3.140	2.240	3.680	2.340	4.580	2.680	3.940	3.840	2.160
144.5	1.800	2.920	1.880	3.440	2.260	4.400	2.500	3.660	3.600	2.020
145.0	1.780	2.660	1.720	3.160	2.080	4.080	2.340	3.500	3.420	1.980
145.5	1.620	2.480	1.440	3.100	1.860	3.540	2.140	3.300	3.020	1.840
146.0	1.620	2.400	1.400	2.940	1.720	3.260	2.000	3.140	2.920	1.760
146.5	1.300	2.280	1.460	2.780	1.740	3.120	1.780	3.120	2.840	1.600
147.0	1.160	2.040	1.140	2.580	1.560	2.840	1.700	2.780	2.700	1.520
147.5	0.940	2.040	1.160	2.320	1.500	2.600	1.660	2.640	2.580	1.380
148.0	0.840	1.900	1.180	2.180	1.300	2.460	1.520	2.620	2.320	1.320
148.5	0.840	1.800	0.920	1.980	1.260	2.380	1.480	2.500	2.340	1.160
149.0	0.800	1.740	0.900	1.860	1.080	2.240	1.260	2.260	2.200	1.160
149.5	0.740	1.560	0.820	1.680	1.060	2.080	1.180	2.240	2.160	1.040
150.0	0.640	1.440	0.780	1.700	0.960	1.940	1.020	1.960	1.960	0.920
150.5	0.680	1.460	0.800	1.560	0.980	1.920	0.920	1.840	1.800	0.860
151.0	0.560	1.380	0.700	1.500	0.840	1.720	0.900	1.660	1.760	0.800
151.5	0.540	1.320	0.660	1.380	0.840	1.680	0.800	1.540	1.680	0.760
152.0	0.540	1.160	0.580	1.320	0.660	1.580	0.720	1.400	1.500	0.600
152.5	0.540	1.120	0.560	1.280	0.600	1.500	0.700	1.420	1.400	0.580
153.0	0.460	1.000	0.500	1.120	0.580	1.440	0.600	1.340	1.360	0.560
153.5	0.520	1.020	0.560	1.180	0.520	1.320	0.540	1.180	1.320	0.620
154.0	0.480	0.940	0.520	1.080	0.580	1.140	0.620	1.160	1.160	0.460
154.5	0.480	1.000	0.420	1.060	0.500	1.220	0.540	1.140	1.120	0.520
155.0	0.380	0.840	0.480	0.920	0.480	1.120	0.520	1.000	0.960	0.460
155.5	0.420	0.940	0.440	1.040	0.480	1.040	0.320	1.080	0.940	0.460
156.0	0.460	0.800	0.320	0.840	0.380	0.920	0.520	0.980	0.920	0.420
156.5	0.480	0.800	0.380	0.900	0.400	0.880	0.340	1.020	0.900	0.400
157.0	0.480	0.780	0.340	0.940	0.440	0.920	0.400	0.900	0.840	0.420
157.5	0.420	0.760	0.400	0.900	0.380	0.940	0.480	0.900	0.840	0.420
158.0	0.380	0.740	0.400	0.840	0.380	0.900	0.420	0.840	0.820	0.420
158.5	0.400	0.640	0.320	0.860	0.440	0.840	0.280	0.780	0.800	0.380
159.0	0.440	0.700	0.380	0.740	0.440	0.860	0.320	0.760	0.740	0.420
159.5	0.440	0.720	0.380	0.800	0.480	0.920	0.440	0.820	0.780	0.380
160.0	0.440	0.580	0.400	0.800	0.260	0.780	0.420	0.740	0.720	0.340
160.5	0.420	0.720	0.340	0.680	0.420	0.780	0.400	0.760	0.740	0.420
161.0	0.520	0.720	0.340	0.780	0.420	0.780	0.380	0.740	0.740	0.380
161.5	0.440	0.700	0.340	0.720	0.320	0.720	0.380	0.800	0.720	0.300
162.0	0.420	0.680	0.480	0.780	0.380	0.680	0.380	0.700	0.720	0.400
162.5	0.340	0.720	0.240	0.640	0.380	0.740	0.380	0.680	0.740	0.340
163.0	0.380	0.600	0.380	0.680	0.340	0.700	0.400	0.720	0.720	0.340
163.5	0.400	0.620	0.340	0.680	0.260	0.680	0.320	0.680	0.580	0.260
164.0	0.400	0.700	0.380	0.620	0.400	0.560	0.400	0.620	0.660	0.280
164.5	0.380	0.660	0.260	0.640	0.380	0.640	0.320	0.660	0.620	0.340
165.0	0.400	0.680	0.440	0.680	0.380	0.600	0.340	0.640	0.720	0.340
165.5	0.460	0.600	0.320	0.700	0.340	0.700	0.280	0.640	0.700	0.300
166.0	0.380	0.580	0.380	0.600	0.300	0.660	0.320	0.660	0.600	0.300

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CANDELA TABULATION - (Cont.)

166.5	0.460	0.600	0.280	0.560	0.240	0.700	0.300	0.640	0.660	0.420
167.0	0.280	0.580	0.300	0.560	0.300	0.620	0.420	0.660	0.620	0.300
167.5	0.460	0.560	0.340	0.660	0.400	0.620	0.340	0.640	0.600	0.280
168.0	0.300	0.500	0.200	0.620	0.320	0.580	0.280	0.660	0.680	0.320
168.5	0.320	0.520	0.320	0.580	0.200	0.580	0.280	0.580	0.580	0.260
169.0	0.340	0.520	0.380	0.580	0.380	0.560	0.280	0.580	0.640	0.300
169.5	0.400	0.520	0.340	0.540	0.280	0.600	0.340	0.480	0.560	0.280
170.0	0.380	0.500	0.260	0.500	0.320	0.580	0.380	0.480	0.480	0.340
170.5	0.300	0.520	0.280	0.460	0.240	0.560	0.300	0.500	0.420	0.320
171.0	0.320	0.520	0.300	0.460	0.180	0.520	0.240	0.400	0.520	0.240
171.5	0.320	0.400	0.300	0.540	0.320	0.500	0.400	0.480	0.400	0.380
172.0	0.340	0.440	0.280	0.500	0.220	0.540	0.240	0.500	0.460	0.280
172.5	0.380	0.440	0.280	0.520	0.300	0.500	0.320	0.440	0.540	0.240
173.0	0.420	0.440	0.260	0.280	0.280	0.460	0.220	0.320	0.380	0.240
173.5	0.320	0.420	0.300	0.440	0.320	0.480	0.340	0.420	0.560	0.300
174.0	0.300	0.400	0.200	0.440	0.200	0.420	0.220	0.400	0.380	0.260
174.5	0.280	0.340	0.240	0.400	0.300	0.420	0.200	0.440	0.420	0.380
175.0	0.380	0.320	0.260	0.460	0.200	0.420	0.260	0.380	0.380	0.280
175.5	0.260	0.440	0.240	0.400	0.260	0.400	0.300	0.480	0.380	0.240
176.0	0.320	0.340	0.260	0.380	0.280	0.440	0.240	0.420	0.300	0.260
176.5	0.280	0.400	0.200	0.380	0.280	0.320	0.260	0.440	0.380	0.180
177.0	0.240	0.340	0.240	0.300	0.260	0.420	0.220	0.320	0.300	0.180
177.5	0.240	0.300	0.180	0.420	0.220	0.340	0.240	0.340	0.320	0.200
178.0	0.300	0.320	0.200	0.380	0.180	0.340	0.260	0.420	0.340	0.260
178.5	0.340	0.300	0.220	0.300	0.280	0.280	0.180	0.420	0.280	0.200
179.0	0.380	0.380	0.280	0.320	0.240	0.340	0.240	0.300	0.380	0.220
179.5	0.300	0.300	0.200	0.300	0.260	0.300	0.260	0.380	0.280	0.200
180.0	0.320	0.240	0.260	0.300	0.200	0.320	0.280	0.380	0.300	0.180

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	797.424	797.424	797.424	797.424	797.424	797.424	797.424
0.5	789.924	797.184	792.384	792.204	800.264	794.784	801.544
1.0	789.544	805.444	787.084	795.404	805.264	788.884	784.084
1.5	802.604	791.524	801.544	808.924	805.984	793.304	776.924
2.0	790.664	775.404	810.984	823.084	808.844	792.544	773.464
2.5	772.064	786.804	812.044	832.324	820.504	798.024	779.444
3.0	781.684	806.044	801.504	839.004	835.304	803.104	792.624
3.5	792.864	811.684	799.564	853.244	848.504	800.544	802.764
4.0	781.704	796.984	804.344	861.584	851.924	805.584	802.764
4.5	766.364	791.704	805.444	855.884	852.764	804.464	802.424
5.0	768.264	794.024	820.664	841.844	841.324	796.304	798.944
5.5	784.904	802.764	827.964	826.464	818.564	791.404	797.444
6.0	795.924	808.404	820.664	807.964	798.224	781.244	794.044
6.5	784.364	792.264	811.564	795.844	796.444	774.564	785.904
7.0	774.084	776.304	794.104	785.704	793.784	767.844	787.524
7.5	770.284	770.144	789.224	775.084	785.584	757.364	789.784
8.0	765.604	767.984	797.744	774.164	779.844	750.424	785.484
8.5	776.084	767.984	807.664	773.364	783.424	743.464	787.044
9.0	790.704	769.944	815.184	768.604	789.004	740.104	782.644
9.5	784.204	767.004	809.744	765.384	783.844	726.564	762.804
10.0	764.684	751.744	792.064	758.324	765.244	710.764	739.344
10.5	749.584	734.044	764.204	757.584	746.284	704.004	730.244
11.0	741.264	733.984	742.324	762.384	732.624	695.463	731.304
11.5	745.924	738.004	734.384	762.304	722.624	681.783	717.904

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CANDELA TABULATION - (Cont.)

12.0	758.644	739.044	737.504	754.964	716.824	673.783	710.844
12.5	769.784	738.104	742.384	738.664	709.644	687.183	709.104
13.0	768.564	740.904	746.764	720.544	705.004	710.264	702.684
13.5	756.584	747.764	747.384	711.444	709.204	717.044	691.643
14.0	733.544	752.424	745.724	704.524	713.944	701.264	685.863
14.5	716.624	750.284	739.504	695.863	711.864	680.123	675.023
15.0	711.924	742.664	731.864	689.043	704.964	672.283	664.943
15.5	709.484	733.484	718.164	679.663	697.963	674.783	663.043
16.0	704.404	723.204	709.324	669.663	696.543	679.283	658.163
16.5	701.064	717.704	700.504	658.663	699.604	675.763	647.803
17.0	703.604	717.564	691.203	654.443	695.963	663.163	632.563
17.5	709.464	712.244	681.103	645.623	687.763	652.783	620.863
18.0	704.304	706.284	671.603	635.143	677.363	643.923	616.763
18.5	682.203	701.204	662.143	624.763	669.563	656.343	616.163
19.0	653.083	693.123	655.603	619.523	665.123	680.363	621.623
19.5	634.563	677.923	649.923	620.883	660.623	674.303	638.243
20.0	622.823	655.723	645.003	630.563	656.283	646.883	640.423
20.5	616.263	631.143	638.823	627.843	627.343	635.023	612.323
21.0	616.003	619.483	632.843	602.023	623.743	623.623	592.323
21.5	625.803	625.023	632.523	593.903	625.583	619.183	602.523
22.0	638.623	630.883	625.903	603.383	622.083	619.143	624.843
22.5	639.763	635.043	621.803	619.003	628.603	624.083	629.543
23.0	622.723	642.243	614.743	609.943	638.143	633.863	610.303
23.5	606.543	660.083	620.523	592.383	629.843	640.123	594.463
24.0	611.823	665.563	620.783	592.543	619.243	641.663	600.623
24.5	621.583	662.203	618.443	608.643	627.763	643.983	613.323
25.0	618.223	660.543	613.963	633.543	643.603	642.303	623.403
25.5	603.003	663.663	609.723	663.803	653.183	645.743	627.023
26.0	582.823	674.203	619.363	680.623	651.623	655.523	629.583
26.5	579.663	682.603	632.443	707.304	652.783	665.863	649.063
27.0	592.883	679.243	645.203	752.964	659.523	677.523	687.523
27.5	615.223	682.563	666.723	821.024	680.623	701.264	747.304
28.0	634.783	693.623	702.244	892.824	717.464	728.544	817.644
28.5	655.623	711.244	731.424	911.505	753.104	763.824	875.924
29.0	679.663	734.844	765.584	886.604	780.124	802.264	889.424
29.5	709.024	763.144	815.244	836.124	808.664	847.524	875.624
30.0	749.704	790.544	855.744	789.324	825.184	863.404	821.784
30.5	782.524	824.564	876.784	749.064	842.164	883.284	779.004
31.0	814.764	851.684	864.404	720.284	878.684	882.624	781.644
31.5	846.324	861.904	840.584	750.344	923.265	883.944	806.544
32.0	864.544	881.964	819.984	803.824	951.005	885.024	840.104
32.5	847.284	895.724	804.724	840.484	951.225	889.824	903.805
33.0	800.504	913.645	804.364	961.685	946.565	907.085	938.685
33.5	751.384	926.965	831.304	986.785	932.785	946.405	905.025
34.0	731.944	954.465	870.844	944.205	917.445	977.845	847.284
34.5	749.444	978.925	906.885	898.364	908.505	1001.405	811.144
35.0	797.444	1003.605	926.005	879.784	928.925	1022.385	812.704
35.5	866.944	1030.245	944.905	881.764	962.365	1031.325	827.084
36.0	911.165	1040.265	971.885	893.324	1002.005	1031.105	853.604
36.5	962.625	1048.345	978.625	916.485	1019.125	1015.385	882.664
37.0	1002.945	1042.685	965.745	931.765	1033.485	1012.545	910.185
37.5	1004.985	1037.425	944.905	935.905	1029.785	1039.845	939.965
38.0	969.385	1050.985	937.685	941.145	1022.565	1081.765	970.745
38.5	921.125	1056.865	947.005	961.245	1020.945	1103.606	984.885
39.0	874.784	1050.765	974.025	980.685	1022.285	1090.945	973.585
39.5	844.884	1057.745	993.885	988.525	1023.505	1075.665	949.745

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CANDELA TABULATION - (Cont.)

40.0	836.464	1071.505	995.605	981.105	1031.205	1070.625	933.885
40.5	857.264	1066.265	994.005	965.165	1037.405	1057.605	929.385
41.0	891.424	1056.005	1020.205	965.385	1039.565	1045.925	941.405
41.5	930.185	1052.945	1051.625	974.345	1048.785	1032.025	958.285
42.0	956.825	1047.265	1055.205	994.445	1059.905	1018.805	970.705
42.5	979.265	1043.345	1043.725	1024.765	1071.945	1018.845	973.865
43.0	996.725	1036.785	1039.385	1054.025	1066.265	1025.385	974.805
43.5	1013.485	1039.185	1047.965	1066.705	1054.025	1032.725	980.345
44.0	1027.745	1051.185	1056.625	1072.365	1048.785	1039.165	993.245
44.5	1028.985	1064.945	1060.905	1074.125	1050.525	1047.325	1012.025
45.0	1021.025	1079.145	1071.285	1078.705	1054.025	1054.225	1026.965
45.5	1017.025	1096.185	1076.085	1078.045	1065.165	1057.785	1036.925
46.0	1021.705	1104.046	1085.045	1069.525	1081.105	1057.825	1045.025
46.5	1032.725	1105.366	1087.445	1056.445	1089.185	1051.925	1050.065
47.0	1038.685	1102.946	1079.585	1050.105	1089.625	1042.145	1053.405
47.5	1032.005	1097.045	1068.885	1045.745	1089.845	1035.225	1049.265
48.0	1017.125	1081.545	1060.365	1040.265	1087.665	1032.985	1036.525
48.5	1002.545	1072.805	1053.605	1038.525	1074.545	1029.225	1022.625
49.0	998.825	1052.105	1049.665	1043.105	1059.065	1022.405	1015.965
49.5	1005.325	1041.725	1047.065	1051.645	1048.785	1017.025	1011.865
50.0	1011.745	1036.505	1042.905	1063.005	1038.525	1008.945	1008.925
50.5	1014.645	1031.245	1040.065	1067.785	1028.485	1003.125	1006.545
51.0	1019.725	1025.085	1038.085	1064.525	1023.045	998.405	1009.185
51.5	1029.665	1016.365	1037.005	1059.505	1020.405	997.385	1015.665
52.0	1043.185	1011.865	1034.825	1059.065	1018.445	997.145	1023.785
52.5	1055.545	1014.045	1035.905	1064.525	1019.545	994.305	1025.925
53.0	1056.805	1018.465	1039.185	1069.525	1023.045	991.625	1022.925
53.5	1051.365	1022.725	1039.405	1071.085	1024.565	991.185	1017.825
54.0	1047.305	1024.445	1038.985	1054.665	1025.885	991.865	1014.025
54.5	1043.465	1027.005	1041.165	1042.465	1026.085	991.845	1011.765
55.0	1039.465	1030.605	1042.465	1026.705	1027.825	989.705	1009.925
55.5	1035.185	1030.845	1040.505	1012.765	1028.725	989.185	1004.685
56.0	1030.185	1029.645	1033.945	999.305	1028.485	989.265	996.025
56.5	1025.905	1024.165	1024.985	991.265	1027.165	988.085	988.885
57.0	1018.645	1018.425	1011.245	985.645	1022.805	985.265	982.905
57.5	1006.705	1012.345	998.145	980.165	1014.065	981.945	979.485
58.0	993.925	1002.745	985.705	977.645	1003.385	978.265	976.805
58.5	981.985	994.605	976.085	978.805	992.025	972.685	974.965
59.0	973.385	989.525	972.365	981.825	982.625	965.305	973.065
59.5	966.605	985.345	971.045	982.525	975.425	957.285	970.585
60.0	960.725	978.605	969.965	981.105	969.105	948.085	970.025
60.5	959.205	970.745	969.765	979.465	964.725	940.445	971.465
61.0	959.685	963.165	968.225	977.985	961.685	933.145	972.825
61.5	960.345	956.045	967.345	976.665	959.505	926.345	972.365
62.0	962.045	953.245	965.825	976.245	957.945	923.665	970.185
62.5	964.485	950.905	964.085	974.725	957.945	923.445	967.025
63.0	964.205	951.625	962.545	972.325	959.705	926.485	962.485
63.5	961.085	954.225	963.205	968.445	960.585	930.785	956.965
64.0	958.365	960.685	963.425	960.965	961.685	936.045	951.805
64.5	954.865	967.265	961.445	953.065	963.205	941.365	946.205
65.0	948.965	973.785	958.185	945.045	963.865	945.845	941.105
65.5	943.205	978.465	952.285	935.445	963.425	947.365	935.185
66.0	936.865	980.945	946.405	927.685	961.685	946.705	928.805
66.5	930.025	980.405	939.845	920.805	957.305	943.285	923.505
67.0	922.485	977.645	930.445	916.465	950.525	937.085	917.265
67.5	914.365	973.485	921.925	912.845	942.245	927.885	910.945

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CANDELA TABULATION - (Cont.)

68.0	908.445	966.125	914.725	910.505	933.945	917.825	905.585
68.5	902.985	958.205	908.625	909.365	924.565	907.305	900.965
69.0	900.285	948.565	902.725	907.685	916.045	895.324	898.184
69.5	898.464	938.905	896.604	904.885	907.305	884.964	895.844
70.0	895.324	928.925	891.804	899.185	897.704	876.924	893.384
70.5	890.744	921.165	889.384	892.544	891.564	874.024	890.064
71.0	884.524	915.145	888.304	885.624	888.744	875.324	885.304
71.5	877.344	911.845	889.184	876.884	890.944	879.544	880.104
72.0	871.364	913.085	890.044	868.964	895.064	882.744	873.984
72.5	865.824	918.245	891.564	861.504	899.665	886.604	867.704
73.0	861.624	921.765	892.024	855.304	902.725	890.844	861.664
73.5	857.824	922.725	893.324	849.704	907.305	893.724	855.144
74.0	851.904	925.505	892.884	844.404	911.005	894.644	849.804
74.5	845.784	928.305	887.644	840.224	911.885	892.344	844.044
75.0	840.344	929.205	882.404	836.404	909.925	888.104	839.504
75.5	836.704	927.645	878.484	834.084	907.085	882.284	835.524
76.0	833.464	924.705	871.644	831.924	903.145	875.024	831.184
76.5	829.924	918.845	866.864	828.584	897.244	863.524	827.184
77.0	825.284	910.965	860.444	824.624	888.304	854.004	822.264
77.5	821.444	900.985	856.504	819.084	876.064	847.004	817.124
78.0	819.424	891.224	852.484	811.104	864.864	842.864	812.064
78.5	816.464	882.724	849.064	803.984	860.284	840.124	806.424
79.0	811.044	876.124	847.684	797.264	855.844	837.404	801.664
79.5	804.144	870.064	846.944	792.304	851.524	835.504	796.924
80.0	795.404	863.724	842.664	788.184	848.624	834.804	792.284
80.5	787.804	858.644	839.064	783.384	847.944	834.604	788.424
81.0	781.484	857.584	840.584	779.044	848.764	833.644	784.024
81.5	775.684	858.864	840.184	773.744	848.284	831.364	779.164
82.0	771.544	858.904	834.564	768.704	845.344	827.624	773.944
82.5	767.484	856.904	830.784	764.064	843.444	821.404	768.884
83.0	763.684	853.444	827.004	758.364	840.904	814.824	763.584
83.5	759.684	847.004	820.684	752.104	833.964	806.664	756.824
84.0	754.804	837.824	811.464	744.424	824.724	797.964	750.364
84.5	749.684	829.404	801.444	737.904	814.504	791.944	743.564
85.0	742.644	821.864	794.304	731.964	805.164	786.284	736.224
85.5	735.384	815.904	789.404	727.064	797.824	781.264	730.204
86.0	728.024	810.324	785.704	721.844	790.424	776.804	724.524
86.5	719.604	804.984	781.864	716.764	785.684	774.724	720.464
87.0	712.684	801.644	777.644	712.164	782.284	773.864	716.084
87.5	706.324	799.444	775.224	708.164	780.304	772.104	712.684
88.0	701.484	797.684	773.624	705.484	780.024	771.384	709.424
88.5	697.443	796.844	772.584	703.304	780.364	770.964	705.044
89.0	694.423	796.984	773.704	699.244	781.084	769.164	700.424
89.5	692.543	795.404	775.404	693.323	780.644	764.744	693.643
90.0	690.403	789.724	773.564	684.983	777.424	757.744	686.163
90.5	686.623	781.564	767.904	674.763	771.404	750.464	678.283
91.0	680.083	772.224	757.844	665.563	762.084	742.984	669.583
91.5	669.783	762.384	748.084	656.103	751.844	734.784	661.883
92.0	659.663	754.044	736.664	648.603	741.544	727.484	654.623
92.5	648.943	747.904	728.024	641.123	731.024	719.964	646.843
93.0	640.263	741.704	721.324	633.523	722.284	714.024	640.123
93.5	632.903	736.004	714.924	626.263	713.364	708.044	632.043
94.0	625.323	729.504	709.824	617.683	706.624	702.444	625.003
94.5	618.623	723.264	705.004	609.443	700.704	696.983	617.983
95.0	610.683	716.904	699.384	600.343	695.083	690.703	610.343
95.5	603.543	711.444	694.543	592.823	690.103	684.823	603.243

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CANDELA TABULATION - (Cont.)

96.0	596.463	706.044	689.183	585.223	686.003	677.963	595.463
96.5	588.963	700.224	684.623	576.943	681.843	671.783	588.183
97.0	582.783	695.783	680.203	570.163	678.343	666.203	582.103
97.5	576.743	691.803	675.483	563.103	674.743	660.763	575.223
98.0	571.803	686.443	670.883	557.243	671.143	656.583	568.323
98.5	566.963	681.403	665.523	551.823	667.183	651.223	560.383
99.0	561.723	676.183	660.043	545.603	662.143	646.103	553.563
99.5	557.083	671.503	654.243	539.443	656.603	640.983	546.983
100.0	551.423	665.843	647.783	532.343	650.083	635.543	538.823
100.5	545.823	659.363	642.243	525.143	643.763	629.883	531.143
101.0	539.663	653.183	636.203	517.683	636.963	623.183	522.923
101.5	532.103	645.583	630.343	508.923	629.743	617.083	515.803
102.0	524.623	638.823	624.183	501.063	623.423	611.443	509.603
102.5	516.243	632.503	617.943	492.582	615.123	605.583	502.983
103.0	509.143	625.823	611.643	485.222	608.743	599.763	497.062
103.5	502.503	619.703	603.683	478.382	603.223	592.743	490.302
104.0	495.302	613.503	597.803	470.822	597.843	586.103	484.602
104.5	489.602	608.343	591.323	464.322	592.863	579.583	478.282
105.0	483.922	602.523	586.323	457.782	587.243	572.543	471.222
105.5	479.022	596.083	581.203	452.242	581.703	566.063	464.342
106.0	473.602	590.283	575.203	446.982	575.903	559.723	456.002
106.5	469.062	583.423	569.403	441.382	569.583	554.123	449.762
107.0	464.382	576.843	563.183	436.282	563.463	547.663	443.282
107.5	458.782	569.303	556.543	429.782	556.503	541.063	435.982
108.0	453.422	560.903	549.623	423.122	549.463	535.903	430.302
108.5	447.482	553.883	542.023	416.402	542.763	530.643	424.242
109.0	440.322	546.443	534.983	409.342	535.483	524.203	418.762
109.5	433.302	539.203	527.743	403.222	528.823	517.383	413.002
110.0	425.642	531.743	519.843	396.662	521.303	509.843	406.802
110.5	419.442	525.563	512.763	390.822	514.803	502.803	402.242
111.0	413.042	519.103	504.783	385.082	508.303	494.262	397.382
111.5	407.582	511.683	497.702	379.282	500.883	486.262	392.442
112.0	402.442	504.923	491.022	374.562	493.702	478.242	387.622
112.5	397.102	497.362	483.862	369.382	485.722	469.142	382.362
113.0	392.482	490.662	477.022	365.082	478.422	460.962	376.982
113.5	385.282	483.442	469.382	360.942	470.822	451.962	371.742
114.0	378.402	475.442	462.802	356.322	463.142	444.562	366.682
114.5	372.122	467.782	456.482	351.762	455.582	436.162	361.682
115.0	365.942	458.842	448.962	346.362	446.602	426.782	355.982
115.5	360.722	450.782	441.942	341.422	438.002	418.722	350.922
116.0	355.142	442.182	433.502	336.482	429.142	409.802	345.322
116.5	350.742	432.762	424.882	330.642	419.602	401.402	339.642
117.0	346.122	424.202	416.122	325.342	411.522	393.402	334.582
117.5	340.462	414.682	406.642	319.502	402.782	384.162	329.342
118.0	335.322	405.942	398.362	314.462	394.662	376.122	323.862
118.5	329.642	396.962	389.782	309.542	386.642	367.442	317.802
119.0	322.962	387.262	382.362	304.182	378.422	359.602	312.782
119.5	316.582	378.722	374.582	299.281	370.902	351.122	307.102
120.0	309.862	369.162	366.182	294.141	361.862	341.782	301.602
120.5	304.542	360.342	358.622	289.661	353.242	333.122	296.201
121.0	298.821	350.202	349.822	285.481	344.542	323.262	290.541
121.5	293.341	335.822	341.982	280.621	334.702	313.582	285.061
122.0	288.501	324.442	334.002	276.001	325.162	303.682	279.441
122.5	278.301	312.882	324.462	270.041	314.022	292.741	273.481
123.0	265.881	299.441	315.122	263.901	303.082	283.201	267.541
123.5	254.421	286.761	303.862	257.521	291.601	273.321	261.961

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CANDELA TABULATION - (Cont.)

124.0	240.381	271.921	293.881	250.101	281.441	262.381	256.101
124.5	221.961	256.301	283.921	243.681	271.421	250.301	250.481
125.0	205.981	240.101	272.961	236.721	258.621	236.981	243.561
125.5	187.141	224.401	262.941	230.861	246.461	224.941	237.221
126.0	166.561	204.881	250.101	225.361	234.861	209.821	230.641
126.5	150.781	182.221	239.481	215.041	224.561	195.481	220.481
127.0	131.601	164.481	229.841	205.081	212.861	181.521	210.781
127.5	117.801	142.801	217.561	196.461	197.741	167.541	201.181
128.0	110.541	120.261	204.421	189.861	184.221	155.661	192.501
128.5	92.640	109.721	188.801	181.441	170.741	140.301	182.541
129.0	85.440	81.600	175.481	169.941	159.681	127.881	170.101
129.5	71.180	66.600	163.221	160.361	147.621	116.741	160.001
130.0	69.280	49.800	150.001	151.021	132.001	109.561	150.021
130.5	60.520	38.160	137.001	139.641	119.681	96.020	138.701
131.0	52.840	30.480	123.821	127.801	108.961	82.520	125.321
131.5	47.080	26.680	114.301	115.021	99.460	74.120	115.761
132.0	42.000	23.640	104.201	108.741	87.960	65.180	109.381
132.5	41.560	20.560	89.660	92.400	73.320	57.720	93.020
133.0	41.400	16.900	75.980	82.680	69.240	49.800	83.060
133.5	39.620	14.600	70.960	74.360	62.400	42.900	75.340
134.0	39.140	12.860	64.440	64.140	55.640	37.820	66.100
134.5	42.280	10.640	55.860	56.380	48.580	32.180	53.660
135.0	43.500	8.800	48.400	51.900	42.020	26.660	47.840
135.5	41.320	7.960	44.160	43.120	36.740	20.920	43.740
136.0	42.840	6.880	38.000	37.680	31.400	16.620	35.900
136.5	42.180	4.820	31.440	34.740	26.340	12.480	32.900
137.0	39.280	4.140	26.440	25.420	21.720	8.780	27.080
137.5	36.820	3.360	20.960	20.820	16.840	7.720	21.480
138.0	30.800	2.900	15.220	15.380	11.860	5.400	17.160
138.5	24.820	2.840	11.000	11.340	9.260	4.720	11.880
139.0	21.020	2.780	8.060	8.940	6.340	4.420	9.580
139.5	15.060	2.740	6.540	4.440	5.760	4.060	4.780
140.0	11.040	2.640	5.860	3.940	5.300	3.840	3.980
140.5	5.020	2.460	5.480	3.700	5.140	3.420	3.660
141.0	4.800	2.340	5.100	3.240	4.780	3.240	3.360
141.5	4.540	2.300	4.680	3.100	4.300	3.040	3.000
142.0	4.260	2.160	4.500	2.860	4.080	2.760	2.780
142.5	3.940	2.020	4.200	2.540	3.840	2.240	2.600
143.0	3.740	1.780	4.000	2.380	3.580	2.200	2.360
143.5	3.540	1.620	3.820	2.140	3.320	1.980	2.120
144.0	3.160	1.580	3.540	2.000	3.200	1.900	2.100
144.5	2.960	1.380	3.320	1.760	3.080	1.680	1.800
145.0	2.820	1.180	3.180	1.760	2.860	1.620	1.780
145.5	2.620	1.200	2.920	1.600	2.680	1.380	1.620
146.0	2.600	1.300	2.720	1.380	2.500	1.300	1.620
146.5	2.300	1.280	2.640	1.380	2.380	1.160	1.300
147.0	2.180	1.300	2.540	1.280	2.200	1.040	1.160
147.5	2.160	1.060	2.420	1.060	2.100	0.940	0.940
148.0	2.000	1.000	2.280	1.120	1.980	0.880	0.840
148.5	1.860	0.920	2.100	0.860	1.780	0.840	0.840
149.0	1.760	0.840	2.120	0.820	1.780	0.780	0.800
149.5	1.620	0.780	2.060	0.780	1.640	0.720	0.740
150.0	1.560	0.760	1.880	0.680	1.500	0.680	0.640
150.5	1.540	0.620	1.860	0.520	1.440	0.580	0.680
151.0	1.300	0.600	1.620	0.640	1.340	0.600	0.560
151.5	1.340	0.640	1.580	0.620	1.160	0.520	0.540

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CANDELA TABULATION - (Cont.)

152.0	1.200	0.640	1.460	0.520	1.120	0.480	0.540
152.5	1.240	0.580	1.320	0.500	1.080	0.340	0.540
153.0	1.080	0.540	1.200	0.480	1.060	0.460	0.460
153.5	1.040	0.480	1.080	0.480	0.960	0.420	0.520
154.0	1.060	0.500	1.020	0.420	0.940	0.400	0.480
154.5	1.020	0.440	1.140	0.480	0.920	0.340	0.480
155.0	0.980	0.340	1.060	0.440	0.840	0.340	0.380
155.5	0.980	0.400	0.940	0.340	0.800	0.420	0.420
156.0	0.920	0.340	0.940	0.340	0.880	0.300	0.460
156.5	0.840	0.500	0.820	0.380	0.800	0.340	0.480
157.0	0.900	0.400	0.920	0.320	0.720	0.320	0.480
157.5	0.880	0.420	0.900	0.320	0.720	0.340	0.420
158.0	0.840	0.400	0.880	0.500	0.660	0.260	0.380
158.5	0.880	0.420	0.740	0.320	0.720	0.260	0.400
159.0	0.760	0.420	0.800	0.420	0.680	0.320	0.440
159.5	0.720	0.380	0.780	0.340	0.720	0.380	0.440
160.0	0.600	0.460	0.820	0.380	0.740	0.300	0.440
160.5	0.720	0.420	0.700	0.300	0.660	0.300	0.420
161.0	0.720	0.280	0.820	0.380	0.620	0.220	0.520
161.5	0.640	0.380	0.700	0.400	0.660	0.320	0.440
162.0	0.620	0.400	0.780	0.380	0.620	0.300	0.420
162.5	0.680	0.400	0.740	0.380	0.620	0.300	0.340
163.0	0.680	0.440	0.640	0.400	0.620	0.280	0.380
163.5	0.660	0.260	0.740	0.400	0.600	0.340	0.400
164.0	0.720	0.340	0.660	0.380	0.620	0.400	0.400
164.5	0.560	0.280	0.640	0.300	0.620	0.400	0.380
165.0	0.540	0.320	0.600	0.320	0.680	0.300	0.400
165.5	0.580	0.420	0.660	0.280	0.540	0.300	0.460
166.0	0.560	0.280	0.720	0.280	0.620	0.340	0.380
166.5	0.560	0.280	0.560	0.260	0.540	0.240	0.460
167.0	0.620	0.420	0.640	0.320	0.620	0.260	0.280
167.5	0.540	0.300	0.600	0.340	0.460	0.300	0.460
168.0	0.540	0.300	0.540	0.280	0.560	0.220	0.300
168.5	0.580	0.320	0.540	0.300	0.560	0.340	0.320
169.0	0.600	0.340	0.520	0.280	0.560	0.240	0.340
169.5	0.500	0.300	0.540	0.300	0.480	0.280	0.400
170.0	0.480	0.320	0.460	0.280	0.500	0.320	0.380
170.5	0.480	0.320	0.460	0.320	0.460	0.260	0.300
171.0	0.560	0.320	0.500	0.260	0.440	0.180	0.320
171.5	0.440	0.200	0.480	0.260	0.400	0.200	0.320
172.0	0.440	0.280	0.440	0.260	0.520	0.260	0.340
172.5	0.480	0.320	0.420	0.400	0.460	0.220	0.380
173.0	0.400	0.220	0.460	0.260	0.400	0.340	0.420
173.5	0.460	0.300	0.400	0.260	0.460	0.260	0.320
174.0	0.420	0.280	0.520	0.220	0.440	0.200	0.300
174.5	0.480	0.280	0.420	0.320	0.400	0.320	0.280
175.0	0.340	0.280	0.320	0.240	0.460	0.240	0.380
175.5	0.320	0.260	0.480	0.260	0.280	0.220	0.260
176.0	0.320	0.260	0.400	0.260	0.320	0.200	0.320
176.5	0.400	0.300	0.340	0.240	0.320	0.260	0.280
177.0	0.380	0.220	0.300	0.240	0.340	0.280	0.240
177.5	0.380	0.200	0.320	0.180	0.420	0.220	0.240
178.0	0.300	0.180	0.460	0.300	0.260	0.200	0.300
178.5	0.440	0.180	0.260	0.200	0.300	0.220	0.340
179.0	0.420	0.180	0.320	0.260	0.300	0.240	0.380
179.5	0.280	0.160	0.300	0.300	0.300	0.260	0.300

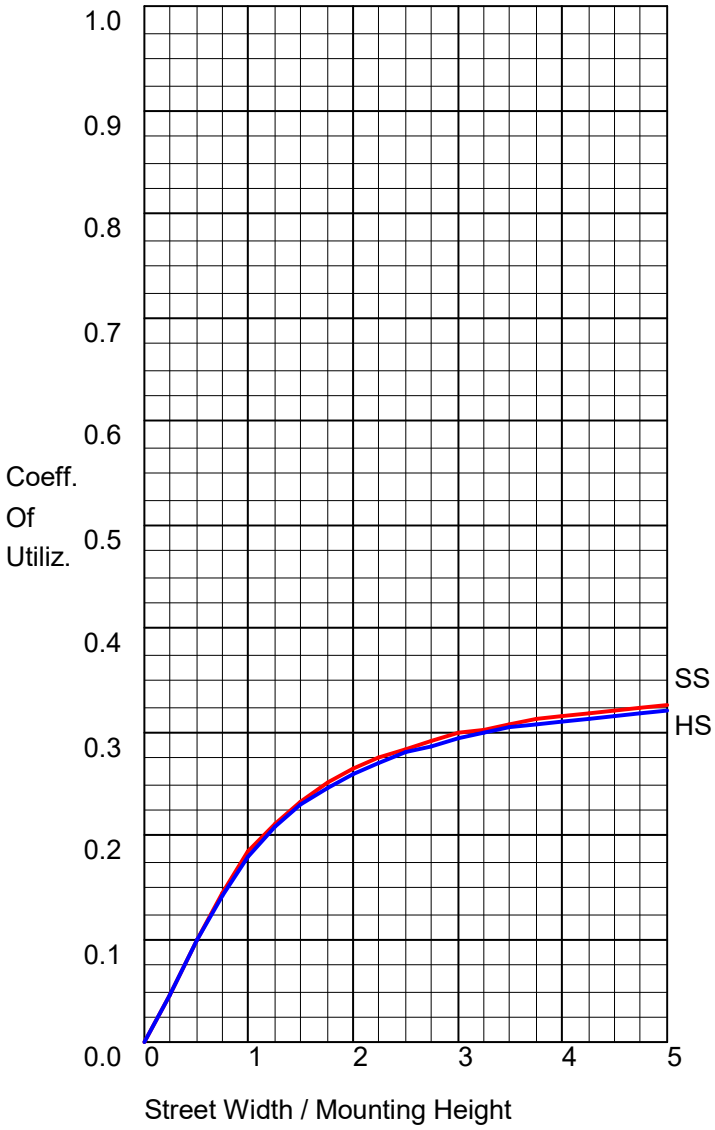
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CANDELA TABULATION - (Cont.)

180.0	0.420	0.200	0.300	0.260	0.300	0.240	0.320

IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-MJ-50W-LED-XX-WLM.IES

COEFFICIENTS OF UTILIZATION



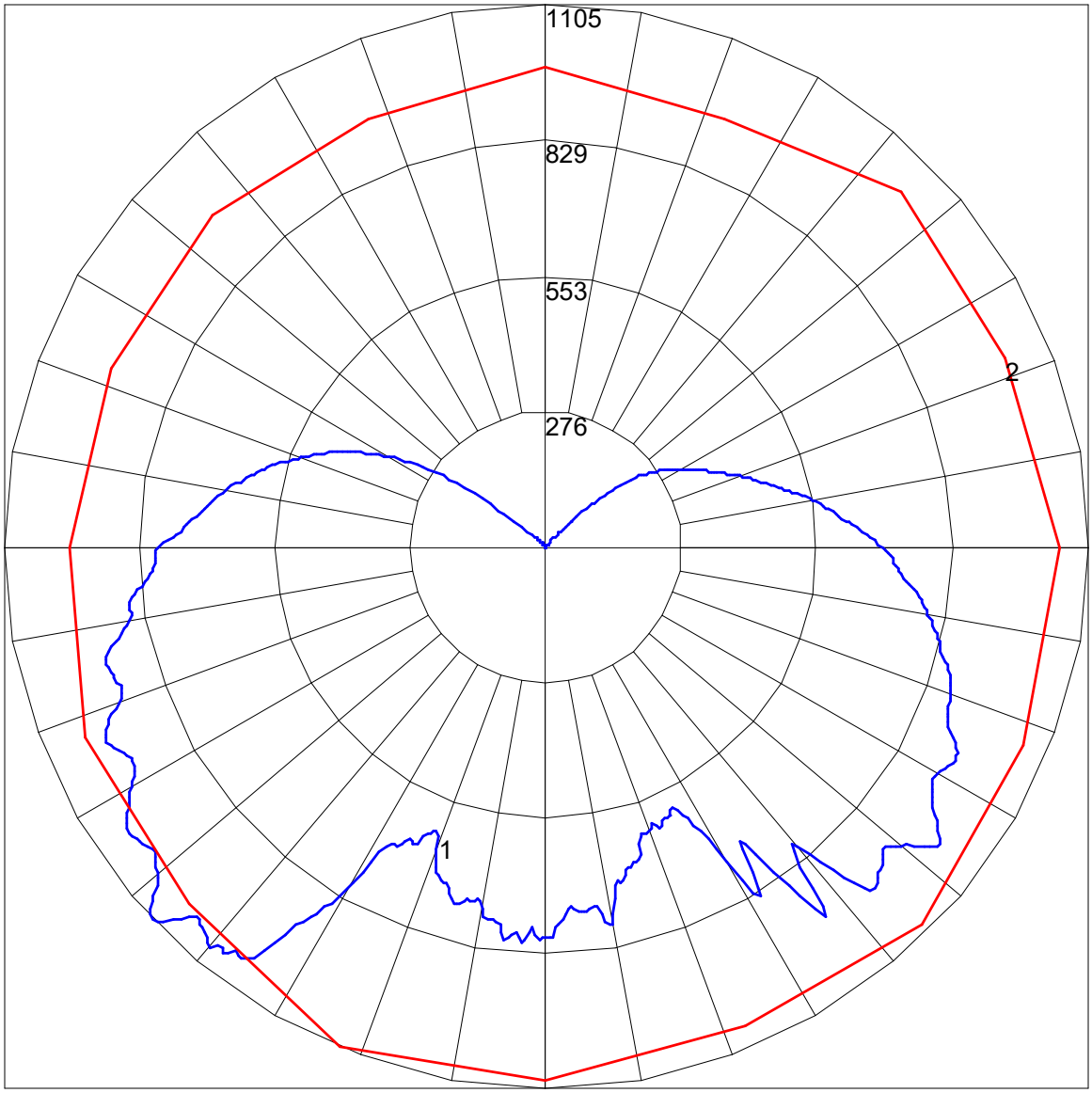
FLUX DISTRIBUTION

	Lumens	Percent Of Lamp
Downward Street Side	2749.6	36.8
Downward House Side	2702.7	36.2
Downward Total	5452.3	73.0
Upward Street Side	995.1	13.3
Upward House Side	1021.8	13.7
Upward Total	2016.9	27.0
Total Flux	7469.2	100.0

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
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POLAR GRAPH

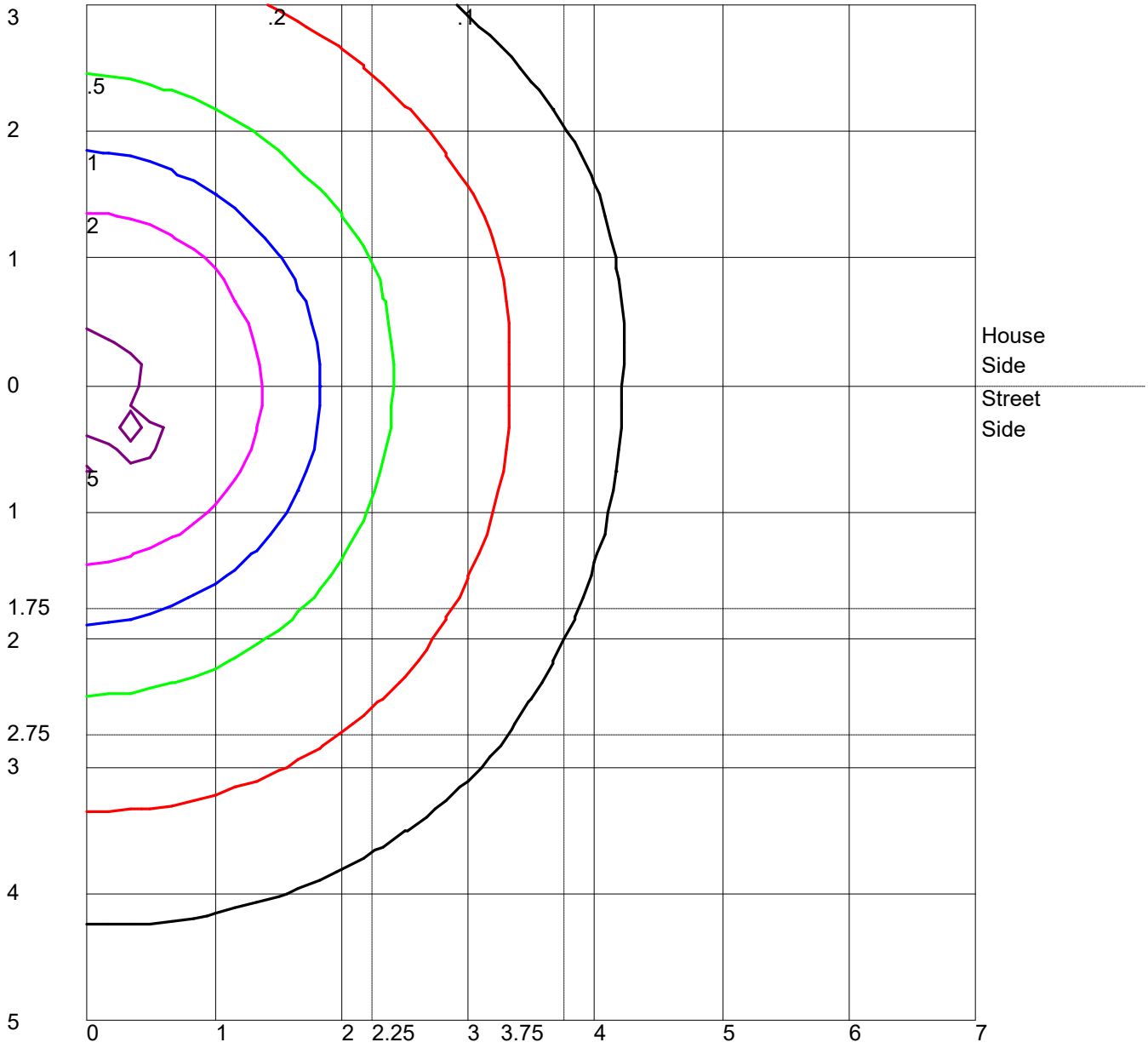


Maximum Candela = 1105.366 Located At Horizontal Angle = 247.5, Vertical Angle = 46.5
1 - Vertical Plane Through Horizontal Angles (247.5 - 67.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (46.5) (Through Max. Cd.)

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Results derived from content of manufacturers photometric file.

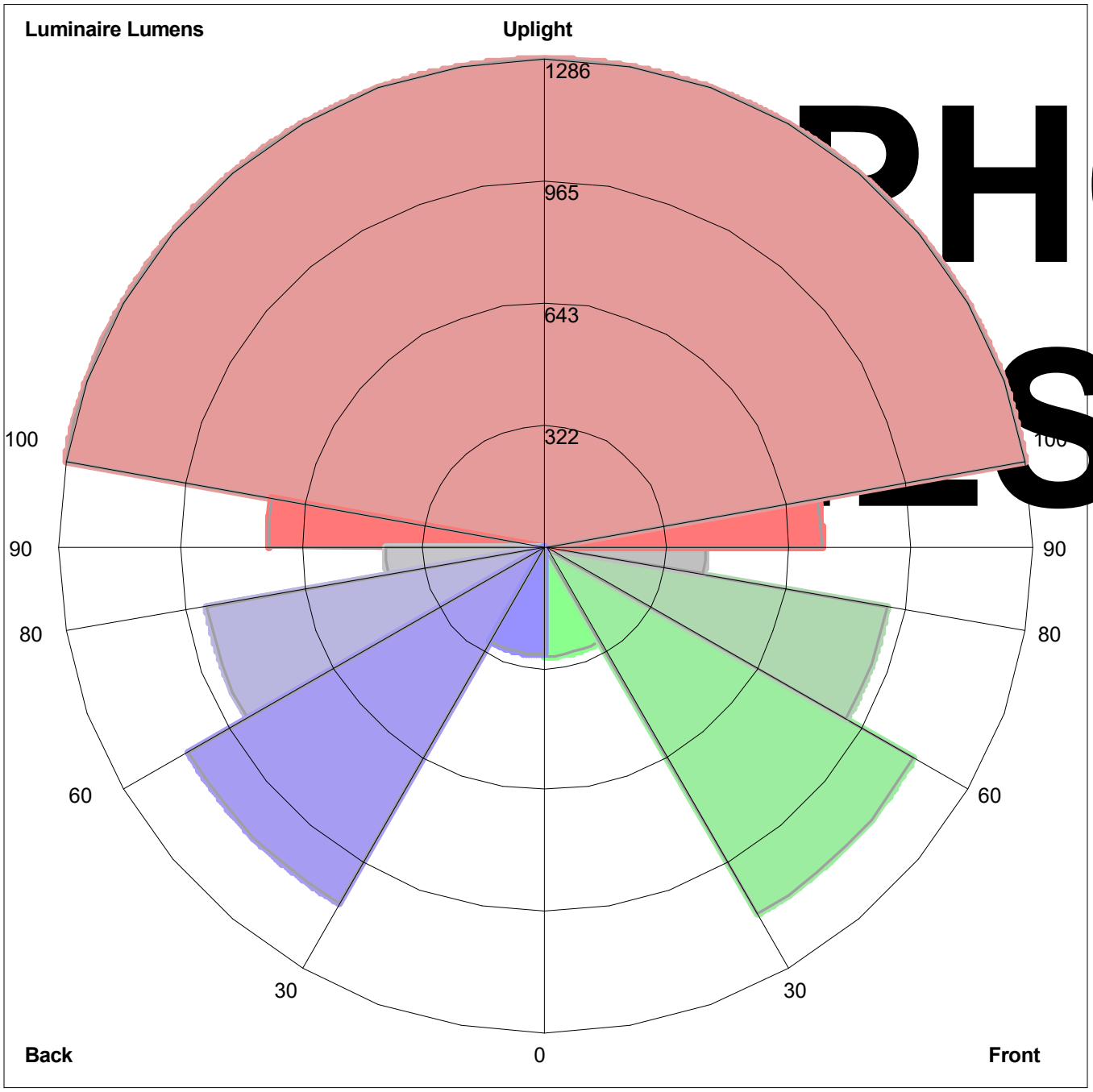
IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-MJ-50W-LED-XX-WLM.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height


Luminaire Lumens
Uplight
1286
965
643
322
100
100
90
90
80
80
60
60
30
30
0
Back
Front