



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S-LED8-90PS-8CSA_75W_4K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] KT-MSLED90PS-8-8CSA-VDIM 4000K

[TESTLAB]

[TESTDATE] 2022-07-08

[ISSUEDATE] 2022-07-19

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] Lamar LED

[LUMCAT] S-LED8-90PS-8CSA_75W_4K

[LUMINAIRE]

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] Note: This file was prorated from measured data using a lumen factor of 1.631 to simulate the

[MORE] lumen output of an 8', 75W, 4000K luminaire.

[ISSUEDATE] Tuesday, July 19, 2022 4:22:40 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	75
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	7.85 ft
Luminous Height	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14521	22222	209767
55	9581	15995	216375
65	5765	11365	234733
75	2728	7798	288287
85	494	4935	532051

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	3013.60	3013.60	3013.60	3013.60	3013.60	3013.60	3013.60	3013.60	3013.60	3013.60
0.5	3013.44	3011.97	3013.27	3014.58	3013.11	3012.78	3013.44	3011.80	3014.90	3013.60
1.0	3015.56	3009.68	3012.95	3016.37	3010.83	3011.48	3012.29	3010.34	3016.05	3012.95
1.5	3016.05	3008.54	3013.60	3016.21	3010.17	3011.32	3009.52	3008.54	3015.39	3012.62
2.0	3015.88	3008.38	3015.72	3016.21	3010.34	3012.95	3009.85	3006.91	3011.80	3011.15
2.5	3015.88	3008.22	3013.60	3013.27	3009.68	3013.11	3009.85	3005.28	3009.85	3009.85
3.0	3013.27	3007.56	3011.97	3011.32	3005.61	3012.95	3006.10	3004.47	3008.71	3007.89
3.5	3010.34	3003.81	3010.34	3008.87	3005.93	3007.07	3004.14	2999.90	3006.91	3006.42
4.0	3005.93	3000.39	3008.71	3009.52	3005.93	3005.61	2999.74	2996.47	3006.42	3003.00
4.5	3002.02	2997.13	3007.07	3010.01	3004.63	3004.47	2998.43	2992.40	3002.67	2999.57
5.0	2999.41	2994.52	3005.44	3009.03	3002.51	3003.98	2996.80	2991.42	2996.64	2996.47
5.5	2997.61	2992.72	3001.53	3002.83	3000.22	2999.25	2996.31	2990.11	2990.60	2990.44
6.0	2993.70	2988.64	3000.88	2998.10	2997.94	2996.31	2993.37	2986.85	2985.71	2985.71
6.5	2989.46	2982.77	2996.31	2996.47	2995.66	2992.23	2987.83	2981.79	2981.30	2981.96
7.0	2987.01	2977.72	2989.95	2992.23	2993.21	2988.81	2982.94	2978.21	2979.18	2979.67
7.5	2983.26	2974.62	2985.55	2988.16	2990.93	2986.36	2978.04	2973.15	2974.62	2976.25
8.0	2978.04	2970.21	2982.77	2985.55	2986.36	2982.77	2972.66	2966.46	2968.42	2971.68
8.5	2972.33	2964.99	2976.74	2981.96	2981.14	2979.51	2969.72	2961.41	2963.04	2967.12
9.0	2964.99	2960.10	2971.36	2977.88	2976.58	2975.60	2963.36	2955.86	2957.66	2960.92
9.5	2957.33	2953.58	2966.63	2971.19	2972.33	2970.54	2957.00	2949.50	2951.46	2954.72
10.0	2949.83	2945.42	2961.57	2965.32	2968.75	2965.65	2950.81	2941.67	2945.10	2948.52
10.5	2943.63	2937.59	2953.90	2960.43	2965.32	2960.59	2944.61	2932.86	2936.29	2945.26
11.0	2937.10	2931.72	2946.08	2956.84	2959.29	2954.39	2936.29	2924.38	2926.34	2938.41
11.5	2931.07	2925.52	2942.00	2952.60	2953.90	2950.81	2932.21	2915.90	2916.06	2931.89
12.0	2923.89	2917.37	2938.08	2949.34	2947.38	2945.91	2928.95	2907.91	2907.09	2922.10
12.5	2914.92	2911.01	2932.21	2943.14	2944.44	2940.86	2922.59	2900.41	2896.00	2911.99
13.0	2905.46	2903.18	2924.55	2935.15	2939.55	2931.72	2912.80	2891.44	2886.05	2905.30
13.5	2894.37	2894.70	2915.90	2927.97	2934.66	2925.69	2901.55	2881.98	2876.76	2898.12
14.0	2885.57	2888.34	2908.56	2924.87	2928.95	2916.88	2891.93	2871.21	2866.32	2889.64
14.5	2875.13	2878.72	2901.06	2919.16	2919.49	2913.29	2885.57	2861.75	2857.02	2882.14
15.0	2864.85	2869.58	2893.23	2912.80	2912.15	2907.26	2876.92	2853.27	2848.38	2872.03
15.5	2855.72	2859.31	2885.40	2903.02	2905.63	2898.94	2869.26	2843.65	2839.41	2861.26
16.0	2844.95	2849.68	2878.55	2895.19	2899.75	2890.13	2861.10	2831.74	2827.83	2848.87
16.5	2834.35	2840.22	2868.77	2886.87	2893.56	2883.12	2852.46	2819.51	2815.92	2838.27
17.0	2822.93	2831.91	2861.59	2880.67	2885.08	2873.50	2842.67	2807.28	2803.36	2828.64
17.5	2810.54	2821.96	2850.99	2873.99	2876.92	2867.14	2833.37	2794.88	2791.62	2817.55
18.0	2797.65	2811.03	2843.65	2864.53	2868.60	2859.63	2824.24	2784.77	2778.73	2807.77
18.5	2785.58	2801.73	2831.25	2856.70	2860.12	2851.80	2815.27	2773.19	2766.99	2797.33
19.0	2774.98	2791.13	2820.33	2846.75	2853.27	2839.41	2805.16	2760.79	2754.43	2786.56
19.5	2763.73	2778.25	2809.40	2838.92	2846.42	2829.30	2793.41	2748.72	2742.36	2774.49
20.0	2751.17	2765.52	2799.94	2829.79	2836.64	2821.79	2781.83	2736.17	2729.64	2762.42
20.5	2738.78	2755.25	2788.85	2821.14	2825.71	2812.82	2771.56	2723.12	2717.25	2750.68
21.0	2726.38	2742.04	2776.78	2811.52	2819.02	2802.87	2759.33	2709.91	2702.89	2737.80
21.5	2711.70	2729.64	2767.32	2799.45	2810.54	2792.11	2747.26	2695.72	2687.07	2722.63
22.0	2695.06	2716.27	2757.21	2789.17	2801.24	2783.63	2735.35	2681.85	2671.90	2708.60
22.5	2680.55	2703.55	2746.77	2780.04	2793.25	2773.03	2723.28	2667.50	2657.55	2696.04
23.0	2664.40	2691.31	2737.47	2767.32	2781.18	2764.87	2710.89	2653.47	2642.22	2683.48
23.5	2648.25	2677.12	2723.93	2758.02	2770.58	2752.48	2697.02	2638.96	2626.89	2670.76
24.0	2632.92	2664.08	2711.05	2746.77	2764.55	2741.22	2682.34	2623.46	2611.23	2654.29
24.5	2616.94	2649.89	2698.33	2734.05	2755.57	2728.83	2670.11	2608.62	2595.41	2638.79
25.0	2600.47	2635.86	2685.77	2720.83	2743.34	2716.59	2656.25	2592.47	2578.61	2626.40
25.5	2584.81	2621.18	2671.58	2716.59	2734.05	2704.52	2642.71	2575.84	2561.97	2613.68
26.0	2567.85	2606.18	2656.74	2706.16	2720.02	2692.78	2628.36	2559.53	2546.48	2600.63
26.5	2550.39	2590.68	2643.85	2694.58	2707.79	2684.63	2615.15	2544.52	2530.01	2582.04

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27.0	2533.60	2576.33	2631.13	2684.14	2696.04	2672.23	2601.61	2528.87	2512.56	2565.73
27.5	2516.96	2560.67	2618.57	2673.05	2681.04	2655.92	2587.91	2512.88	2494.29	2549.25
28.0	2499.83	2546.15	2605.03	2662.77	2670.76	2643.52	2574.21	2497.06	2477.33	2532.29
28.5	2480.75	2532.13	2587.58	2648.91	2659.18	2631.94	2558.71	2481.57	2461.99	2514.51
29.0	2462.65	2513.86	2570.95	2634.23	2651.35	2620.36	2542.73	2465.26	2445.03	2499.34
29.5	2445.03	2496.08	2558.06	2621.67	2637.65	2607.97	2526.09	2447.48	2426.44	2483.03
30.0	2426.76	2478.79	2542.89	2607.64	2626.73	2593.62	2509.95	2429.37	2407.85	2465.91
30.5	2408.99	2461.67	2529.35	2593.78	2614.49	2578.28	2494.13	2411.11	2387.78	2446.99
31.0	2390.39	2445.52	2513.53	2580.24	2602.10	2564.91	2479.28	2393.00	2369.03	2430.19
31.5	2371.31	2427.91	2499.02	2567.36	2591.33	2549.91	2463.46	2375.55	2349.78	2414.70
32.0	2352.72	2409.15	2481.08	2554.96	2573.72	2535.88	2447.97	2357.77	2330.70	2397.08
32.5	2333.96	2391.37	2465.09	2543.06	2559.85	2522.50	2432.80	2339.02	2309.99	2378.32
33.0	2315.86	2372.78	2450.25	2528.70	2547.30	2510.27	2416.00	2320.75	2289.11	2358.75
33.5	2295.80	2354.19	2433.62	2514.35	2534.90	2495.27	2398.87	2301.67	2268.39	2338.85
34.0	2274.92	2335.59	2418.28	2500.98	2523.65	2480.26	2381.75	2281.93	2249.64	2320.26
34.5	2254.21	2316.84	2401.32	2485.81	2506.19	2465.75	2364.13	2262.52	2231.21	2302.16
35.0	2233.00	2297.92	2384.36	2468.19	2491.68	2452.21	2346.85	2242.95	2212.13	2283.89
35.5	2213.10	2279.16	2368.05	2455.31	2479.45	2436.71	2330.37	2223.87	2191.74	2264.32
36.0	2193.04	2260.57	2351.58	2439.65	2463.46	2421.38	2312.59	2204.79	2170.53	2243.93
36.5	2174.12	2241.32	2332.98	2422.85	2451.23	2405.40	2294.65	2185.70	2149.33	2220.44
37.0	2153.90	2222.56	2313.90	2408.17	2437.37	2389.42	2278.18	2165.15	2128.94	2200.55
37.5	2133.35	2203.15	2295.47	2392.84	2423.18	2373.59	2260.57	2145.74	2108.23	2187.17
38.0	2111.17	2184.07	2278.67	2377.35	2408.82	2358.75	2242.63	2126.17	2088.82	2166.13
38.5	2089.80	2164.66	2262.36	2362.18	2394.31	2344.40	2224.36	2106.60	2066.80	2144.77
39.0	2068.60	2145.25	2243.60	2346.03	2378.32	2328.74	2206.09	2086.70	2046.74	2124.05
39.5	2047.07	2123.56	2224.03	2330.37	2363.32	2312.76	2187.66	2064.85	2026.52	2102.52
40.0	2025.05	2102.03	2203.64	2314.39	2348.97	2295.14	2168.58	2043.97	2004.50	2081.48
40.5	2003.85	2080.67	2185.21	2298.73	2334.61	2279.49	2150.15	2021.46	1982.15	2062.73
41.0	1982.15	2060.93	2167.44	2282.26	2319.93	2263.01	2132.04	2001.24	1960.30	2043.15
41.5	1961.28	2039.73	2149.66	2266.44	2303.62	2246.70	2114.10	1981.67	1939.26	2024.23
42.0	1938.93	2019.67	2132.37	2249.48	2288.29	2231.04	2095.35	1962.09	1918.06	2001.40
42.5	1916.43	1999.61	2113.61	2234.63	2271.82	2215.88	2076.92	1940.56	1895.87	1978.40
43.0	1894.90	1980.36	2095.51	2218.49	2255.67	2197.94	2057.83	1919.20	1873.53	1955.41
43.5	1873.20	1957.53	2077.73	2200.87	2238.71	2182.28	2038.75	1899.30	1852.00	1932.41
44.0	1848.25	1935.34	2060.12	2184.72	2223.54	2164.34	2020.48	1879.08	1829.33	1911.53
44.5	1827.54	1914.30	2041.20	2166.78	2208.70	2148.68	2001.24	1857.06	1806.01	1891.31
45.0	1803.56	1893.43	2022.28	2149.66	2192.39	2133.35	1981.67	1834.22	1783.01	1869.94
45.5	1781.05	1872.55	2003.03	2131.88	2175.92	2117.69	1960.95	1812.86	1759.69	1848.58
46.0	1758.22	1852.16	1984.11	2115.73	2159.28	2099.10	1941.38	1792.96	1737.02	1825.58
46.5	1736.04	1829.33	1964.05	2101.22	2142.81	2081.97	1921.48	1770.12	1714.83	1803.40
47.0	1713.69	1806.01	1945.46	2084.25	2125.68	2063.87	1902.07	1748.92	1692.81	1781.54
47.5	1690.86	1783.50	1927.52	2065.99	2109.21	2045.76	1882.83	1729.84	1670.80	1760.34
48.0	1667.86	1761.64	1908.92	2048.21	2092.57	2028.47	1862.11	1707.33	1648.29	1739.46
48.5	1644.37	1740.44	1888.21	2029.45	2075.77	2010.86	1841.89	1684.82	1627.15	1717.12
49.0	1621.36	1718.58	1867.98	2012.16	2059.63	1993.57	1822.48	1662.64	1604.32	1694.77
49.5	1599.91	1696.08	1848.58	1996.51	2042.99	1977.75	1802.58	1640.95	1580.59	1672.75
50.0	1576.93	1671.61	1828.84	1978.24	2025.87	1959.32	1782.68	1619.35	1557.25	1651.71
50.5	1553.23	1648.13	1807.96	1960.95	2010.21	1940.73	1763.11	1598.02	1534.48	1629.73
51.0	1529.44	1626.14	1787.90	1942.52	1994.71	1923.76	1744.03	1575.51	1511.84	1607.99
51.5	1506.54	1603.26	1768.00	1924.58	1977.91	1905.66	1723.31	1553.89	1489.04	1584.63
52.0	1482.82	1580.77	1747.94	1907.78	1961.77	1887.88	1704.72	1532.50	1465.94	1561.36
52.5	1459.76	1558.81	1729.02	1891.80	1944.32	1870.76	1686.62	1511.56	1444.40	1538.69
53.0	1436.39	1537.07	1709.78	1873.86	1926.54	1852.82	1666.72	1489.76	1421.87	1516.29
53.5	1413.95	1515.92	1690.21	1855.26	1908.11	1834.88	1646.82	1468.98	1399.50	1494.97
54.0	1390.61	1493.91	1670.80	1837.81	1891.31	1816.61	1628.15	1447.07	1377.54	1474.21
54.5	1367.69	1472.78	1651.06	1820.03	1874.02	1798.01	1608.10	1425.04	1354.40	1451.85

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55.0	1344.66	1451.36	1629.84	1801.60	1855.91	1779.42	1588.14	1402.22	1331.19	1429.59
55.5	1320.72	1428.71	1609.83	1784.15	1837.97	1760.83	1567.73	1381.36	1307.02	1406.57
56.0	1296.22	1406.69	1590.09	1766.54	1821.34	1743.70	1547.57	1358.13	1283.14	1385.14
56.5	1272.03	1384.43	1570.11	1748.60	1806.01	1726.41	1527.90	1336.43	1259.85	1363.04
57.0	1249.04	1361.66	1550.85	1730.82	1789.21	1708.64	1507.86	1317.20	1236.12	1340.86
57.5	1226.01	1339.05	1531.02	1713.53	1772.08	1690.21	1487.93	1296.19	1213.37	1318.84
58.0	1203.11	1317.39	1512.15	1695.10	1753.81	1672.43	1468.11	1275.31	1190.84	1296.84
58.5	1179.49	1295.34	1493.33	1677.97	1736.20	1653.83	1447.94	1252.58	1167.05	1275.44
59.0	1156.71	1272.96	1474.24	1660.36	1719.56	1636.22	1428.43	1229.95	1143.12	1253.91
59.5	1132.97	1251.09	1454.38	1643.40	1702.27	1618.21	1408.96	1208.31	1121.02	1231.41
60.0	1110.04	1229.42	1435.49	1625.41	1684.01	1600.19	1388.54	1186.86	1097.79	1209.63
60.5	1086.36	1207.30	1416.78	1607.60	1667.86	1582.27	1368.95	1164.09	1075.64	1186.75
61.0	1062.69	1185.48	1398.37	1590.86	1650.74	1565.78	1350.84	1143.67	1052.61	1164.58
61.5	1039.88	1163.72	1378.93	1572.81	1634.26	1548.11	1332.33	1122.89	1029.34	1142.71
62.0	1017.24	1141.08	1359.10	1554.60	1616.94	1530.43	1313.90	1100.63	1006.31	1121.31
62.5	994.13	1118.43	1340.14	1537.02	1600.60	1513.26	1294.82	1078.53	983.20	1099.02
63.0	970.74	1095.66	1321.73	1519.93	1583.37	1497.05	1275.10	1057.25	959.81	1078.60
63.5	948.31	1073.00	1303.02	1501.60	1564.85	1479.76	1256.29	1035.91	936.81	1056.50
64.0	924.45	1050.41	1284.09	1484.00	1546.50	1462.97	1237.65	1014.17	914.55	1035.36
64.5	900.52	1030.29	1265.10	1465.91	1529.49	1445.03	1218.67	993.07	892.45	1013.76
65.0	877.66	1009.54	1246.65	1447.58	1512.25	1428.20	1201.36	973.25	869.13	992.51
65.5	855.13	988.78	1228.97	1430.71	1496.05	1411.45	1182.00	952.75	847.34	971.26
66.0	832.50	967.80	1209.66	1413.52	1478.71	1394.28	1163.69	932.46	824.80	950.27
66.5	809.84	947.89	1191.38	1395.86	1463.12	1376.87	1145.71	912.90	801.65	928.22
67.0	786.50	925.64	1173.16	1378.02	1446.60	1359.21	1128.18	893.59	778.43	907.65
67.5	763.93	904.21	1154.98	1360.37	1429.21	1341.91	1109.75	872.65	756.03	887.13
68.0	740.57	884.33	1135.91	1343.05	1413.03	1324.63	1093.57	852.93	734.85	866.93
68.5	718.03	864.43	1118.16	1324.76	1396.61	1307.20	1075.58	832.32	712.18	846.16
69.0	695.38	843.85	1100.48	1306.89	1381.07	1289.58	1059.06	812.06	688.54	826.26
69.5	672.25	823.85	1084.08	1290.61	1364.89	1272.80	1040.17	791.79	665.43	805.16
70.0	650.41	803.45	1065.32	1272.98	1348.20	1254.63	1023.27	772.21	643.67	784.64
70.5	628.64	783.08	1047.61	1256.93	1331.08	1236.10	1005.30	752.20	621.88	764.14
71.0	606.76	762.70	1029.50	1241.81	1314.33	1218.93	988.76	732.16	599.77	745.76
71.5	584.37	743.48	1012.66	1224.85	1298.08	1202.75	972.11	712.65	578.25	727.07
72.0	563.09	724.15	994.09	1207.40	1281.22	1186.65	955.44	693.97	556.89	708.57
72.5	540.92	705.31	977.70	1189.93	1265.79	1170.08	938.77	674.61	535.77	689.36
73.0	519.25	686.47	959.13	1173.13	1248.92	1154.16	923.16	656.53	515.12	670.72
73.5	498.06	667.94	942.16	1158.04	1232.82	1138.29	905.84	638.11	494.58	652.12
74.0	477.28	648.80	924.42	1141.44	1217.17	1121.69	887.88	619.62	473.82	633.40
74.5	456.50	630.64	907.75	1124.30	1201.00	1105.69	870.50	601.77	452.49	614.81
75.0	435.13	612.86	890.15	1107.92	1185.38	1090.21	853.62	584.18	431.84	595.98
75.5	414.26	594.42	873.69	1092.31	1168.64	1072.90	836.10	566.02	411.14	578.09
76.0	393.25	576.48	857.40	1076.25	1152.77	1056.37	819.72	548.05	388.96	559.89
76.5	373.09	558.42	839.87	1060.57	1137.56	1040.22	803.72	530.16	368.83	541.85
77.0	353.45	540.99	823.44	1044.18	1122.45	1024.63	787.77	513.00	349.70	523.80
77.5	333.51	523.68	807.28	1029.60	1106.68	1007.99	771.54	495.78	330.23	506.96
78.0	314.18	506.78	792.05	1013.63	1090.68	992.74	756.57	479.64	310.05	490.70
78.5	294.77	489.43	777.06	998.73	1076.61	977.49	741.45	463.69	291.66	474.56
79.0	275.97	472.71	760.67	982.84	1061.45	962.03	726.15	447.79	273.13	458.38
79.5	257.40	455.85	743.93	967.04	1046.34	946.76	711.38	432.75	254.63	442.02
80.0	238.81	439.73	728.60	952.10	1031.44	932.34	696.49	417.08	237.18	425.90
80.5	220.20	424.40	712.13	936.24	1017.45	915.46	681.87	401.21	219.22	410.44
81.0	202.80	408.30	695.44	919.85	1003.37	899.51	666.26	385.50	200.56	395.21
81.5	184.91	392.58	679.43	903.04	988.52	883.84	649.66	369.80	183.99	380.48
82.0	168.43	377.43	663.21	889.47	972.84	868.96	633.77	355.31	167.67	364.43
82.5	152.52	362.25	648.18	873.60	958.57	853.80	617.58	340.31	151.38	349.16

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83.0	137.18	347.94	632.71	858.13	945.21	838.94	602.05	325.30	135.52	334.19
83.5	121.51	333.31	616.89	842.46	930.18	823.26	586.05	310.43	120.55	320.46
84.0	107.01	317.51	601.07	825.71	914.55	806.53	569.50	295.73	105.65	306.09
84.5	93.44	303.17	585.19	807.90	898.14	787.84	553.12	280.89	90.79	291.12
85.0	80.00	288.67	568.21	789.11	881.21	768.53	534.82	266.51	78.75	276.76
85.5	67.33	274.01	549.57	768.36	858.75	749.07	516.26	252.27	66.25	262.02
86.0	54.94	258.66	530.24	739.84	822.40	720.25	496.59	237.38	54.02	246.98
86.5	43.08	243.48	506.88	699.96	776.63	678.41	472.92	220.69	42.77	230.56
87.0	33.27	227.00	476.66	647.29	714.72	626.16	442.56	203.04	32.60	211.85
87.5	24.87	207.81	433.24	578.60	630.07	559.12	401.26	183.99	23.57	192.05
88.0	17.76	185.07	374.54	485.34	523.00	466.68	348.33	160.46	16.67	165.61
88.5	11.26	154.54	299.88	374.43	402.56	360.32	277.50	132.79	10.94	128.07
89.0	6.11	112.60	208.41	255.55	269.93	242.30	188.54	93.74	5.86	75.20
89.5	3.29	58.82	112.94	136.13	142.10	128.44	95.80	47.42	2.22	21.49
90.0	3.00	15.90	34.12	42.01	42.23	36.44	26.54	10.92	1.24	8.82
90.5	2.72	8.76	15.54	20.27	22.00	20.97	16.78	10.22	1.25	20.96
91.0	2.43	23.86	31.87	37.39	41.17	39.10	33.07	25.14	1.49	49.97
91.5	2.42	55.06	60.60	65.16	68.91	65.53	60.37	53.66	1.56	86.09
92.0	2.40	91.29	107.67	108.29	110.14	108.93	105.87	87.33	1.64	109.61
92.5	2.39	111.47	175.12	170.26	172.38	171.39	170.18	104.37	1.71	115.69
93.0	2.37	117.62	257.49	253.87	255.43	253.82	249.54	107.26	1.79	120.24
93.5	2.36	118.45	331.32	352.54	357.66	350.93	313.97	107.38	1.85	122.31
94.0	2.35	124.08	352.61	456.40	466.32	456.52	331.92	109.35	1.92	122.33
94.5	2.33	123.49	361.23	530.08	566.85	522.54	339.72	109.79	1.98	120.32
95.0	2.32	120.74	358.84	540.50	614.50	530.50	335.45	108.38	2.05	117.67
95.5	2.31	117.48	352.38	544.44	610.81	531.20	328.76	106.65	2.12	114.79
96.0	2.29	113.84	345.04	541.72	605.70	527.91	321.62	103.59	2.35	111.33
96.5	2.28	109.42	339.64	534.89	598.02	518.76	315.91	100.71	2.36	107.62
97.0	2.26	105.68	337.88	526.81	587.63	508.90	313.84	97.82	2.48	103.91
97.5	2.25	101.74	332.72	516.42	577.18	499.07	313.72	95.16	2.61	100.09
98.0	2.24	98.07	325.60	507.80	566.17	490.57	307.70	91.41	2.85	96.22
98.5	2.22	94.78	318.37	501.58	555.99	484.60	300.33	88.19	2.85	92.32
99.0	2.23	91.41	311.59	495.40	545.93	479.25	293.71	85.09	3.09	88.04
99.5	2.47	88.37	304.28	489.15	539.67	477.39	287.33	82.48	3.10	84.01
100.0	2.71	85.41	297.82	481.11	534.53	471.77	281.07	79.21	3.35	79.77
100.5	2.72	82.06	290.63	472.96	529.03	464.13	274.94	76.51	3.59	75.47
101.0	2.96	79.41	284.71	464.39	522.39	456.39	268.63	74.03	3.71	70.90
101.5	3.09	76.50	278.35	455.28	513.06	447.46	262.62	71.53	3.96	66.57
102.0	3.34	73.98	272.05	447.17	503.52	438.80	256.80	69.31	4.09	63.01
102.5	3.58	71.34	265.82	438.80	495.53	430.96	250.83	67.07	4.34	59.75
103.0	3.83	69.08	259.80	430.13	486.07	422.87	245.84	65.22	4.58	58.56
103.5	4.08	66.92	253.57	420.72	476.45	413.80	240.33	63.22	4.70	57.92
104.0	4.33	64.52	247.62	412.74	467.82	405.87	234.98	61.24	4.95	57.41
104.5	4.45	62.37	241.55	404.90	458.98	398.40	229.47	59.85	5.08	56.91
105.0	4.80	60.47	235.70	397.62	451.05	390.09	224.13	57.98	5.33	56.56
105.5	5.06	58.68	229.86	388.78	442.75	382.71	219.32	56.24	5.57	56.05
106.0	5.31	56.92	224.83	380.68	433.73	374.97	214.62	54.50	5.72	55.05
106.5	5.44	55.39	219.58	372.65	425.98	368.12	209.37	53.12	6.06	53.77
107.0	5.57	53.99	214.13	365.39	417.83	360.01	204.35	51.74	6.06	52.39
107.5	5.45	52.55	209.45	357.94	409.98	352.98	199.75	50.32	5.94	51.08
108.0	5.44	51.16	204.53	350.44	401.63	346.07	195.26	49.21	6.06	49.94
108.5	5.80	50.04	199.86	342.41	393.90	339.44	190.58	47.85	6.07	48.81
109.0	6.18	48.63	195.03	335.92	386.55	332.50	186.18	46.60	6.32	47.53
109.5	6.65	47.50	190.11	329.46	378.54	326.22	181.82	45.37	6.70	46.46
110.0	6.80	46.35	185.66	323.10	371.88	320.03	177.71	44.72	7.05	45.31
110.5	6.93	45.16	181.27	316.94	364.43	313.90	173.51	43.67	7.05	44.29

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CANDELA TABULATION - (Cont.)

111.0	6.81	44.03	176.69	310.72	356.99	307.59	169.87	42.56	7.30	43.15
111.5	6.80	43.40	172.95	304.59	350.14	301.41	165.46	41.81	7.55	42.09
112.0	7.04	42.39	168.76	298.59	343.95	295.42	161.61	40.95	7.54	41.07
112.5	7.17	41.62	164.75	292.42	336.51	289.06	158.04	40.17	7.42	40.66
113.0	7.54	40.91	160.71	286.62	329.77	283.32	154.54	39.00	7.42	40.28
113.5	7.78	39.64	156.91	280.50	323.43	277.63	150.79	38.37	7.55	39.56
114.0	8.14	38.89	153.36	275.05	317.38	272.08	147.43	37.74	7.80	38.81
114.5	8.40	38.26	149.74	269.70	311.02	266.13	144.10	37.01	8.17	38.05
115.0	8.53	37.51	146.19	264.53	304.83	260.63	140.63	36.39	8.42	37.29
115.5	8.78	36.91	142.61	258.74	298.54	255.40	137.21	35.68	8.67	36.65
116.0	9.02	36.39	139.39	253.62	292.41	250.08	134.17	34.93	9.03	36.02
116.5	9.15	35.76	136.12	248.40	286.13	244.41	131.20	34.43	9.05	35.42
117.0	9.03	35.26	133.21	243.33	280.81	239.35	128.34	33.68	9.42	34.91
117.5	9.03	34.90	130.19	238.48	274.87	234.36	125.49	32.93	9.65	34.28
118.0	9.26	34.52	127.30	233.23	269.28	229.48	122.64	32.23	9.77	34.01
118.5	9.16	34.15	124.31	228.88	263.55	224.28	119.81	31.49	9.90	33.42
119.0	9.51	33.64	120.13	223.15	258.01	219.86	116.91	30.99	9.91	33.03
119.5	9.53	33.26	117.71	218.18	252.40	215.15	113.20	30.61	10.14	32.65
120.0	9.77	32.88	115.01	213.97	246.84	210.59	110.69	30.12	10.22	32.15
120.5	10.02	32.40	112.17	209.03	241.88	205.88	108.12	29.77	10.29	31.77
121.0	10.25	32.01	109.85	204.43	236.56	201.38	105.82	29.39	10.37	31.39
121.5	10.50	31.64	107.36	200.21	231.29	197.07	103.27	29.03	10.44	31.03
122.0	10.76	31.27	105.82	195.67	226.15	192.70	101.19	28.90	10.52	30.65
122.5	11.01	31.01	103.43	191.32	221.25	188.53	100.02	28.53	10.52	30.39
123.0	11.36	30.77	101.13	186.37	216.42	184.22	97.88	28.41	10.65	30.16
123.5	11.38	30.52	98.98	182.35	211.79	180.19	95.78	28.04	10.90	29.90
124.0	11.74	30.14	96.81	178.55	206.71	175.82	93.54	27.67	11.15	29.77
124.5	11.87	29.89	94.68	174.48	202.21	172.15	91.53	27.42	11.51	29.65
125.0	11.99	29.77	92.78	170.70	198.00	168.34	89.44	27.17	11.63	29.39
125.5	12.12	29.65	90.87	164.52	193.13	163.36	87.80	26.94	11.88	29.15
126.0	12.24	29.27	89.22	160.18	188.82	157.82	85.92	26.88	11.88	29.14
126.5	12.32	29.14	87.44	156.62	185.02	154.06	83.93	26.82	12.00	28.78
127.0	12.39	28.76	85.54	152.68	180.68	150.64	82.05	26.75	12.13	28.50
127.5	12.47	28.52	83.62	148.98	175.51	147.09	80.30	26.69	12.25	28.22
128.0	12.54	28.39	81.98	145.66	169.40	143.85	78.68	26.65	12.38	27.94
128.5	12.62	28.14	80.46	142.40	165.27	140.81	76.81	26.61	12.50	27.67
129.0	12.74	27.88	78.83	140.87	161.60	137.58	75.07	26.57	12.63	27.39
129.5	13.09	27.37	77.41	138.18	157.81	136.50	73.56	26.53	12.87	25.99
130.0	13.11	26.65	75.48	135.25	154.01	133.61	71.56	26.49	12.87	22.37
130.5	13.35	24.90	72.98	132.02	150.35	130.53	69.56	26.45	12.98	17.72
131.0	13.24	20.93	71.44	128.85	147.20	127.62	66.96	25.69	12.87	13.64
131.5	13.47	15.25	70.05	126.53	146.15	124.71	65.46	24.42	12.99	13.17
132.0	13.60	10.91	68.79	123.29	142.89	121.84	64.10	21.33	13.00	12.69
132.5	13.73	8.51	67.40	120.74	139.72	119.21	62.87	15.26	13.37	12.21
133.0	13.97	8.51	66.21	118.12	136.63	116.71	61.81	9.63	13.49	11.74
133.5	14.10	8.53	64.94	115.68	133.32	113.92	60.56	8.12	13.49	11.46
134.0	14.23	8.56	63.94	112.92	130.09	111.44	59.69	8.12	13.73	11.20
134.5	14.58	8.58	63.31	110.42	127.20	108.68	58.47	8.12	13.86	10.93
135.0	14.60	8.61	62.79	108.26	124.30	106.18	57.97	8.12	13.87	10.66
135.5	14.96	8.63	61.83	105.73	121.44	103.70	57.38	8.12	14.10	10.39
136.0	14.97	8.63	60.80	103.55	118.38	101.39	56.37	8.12	14.11	10.38
136.5	15.20	8.63	59.80	101.26	115.71	98.98	55.37	8.12	14.23	10.40
137.0	15.34	8.77	59.04	99.13	112.72	96.76	54.51	8.25	14.36	12.79
137.5	15.46	9.15	58.16	96.95	110.12	94.62	53.53	8.63	14.48	15.46
138.0	15.58	9.62	57.21	93.24	107.62	90.72	52.71	9.22	14.60	17.89
138.5	15.94	10.90	56.31	90.67	105.20	87.87	51.70	10.23	14.73	19.69

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CANDELA TABULATION - (Cont.)

139.0	15.96	13.36	55.55	88.75	102.65	85.96	50.82	13.17	14.83	19.88
139.5	16.20	16.38	54.79	86.83	100.47	84.07	49.95	17.61	14.93	20.07
140.0	16.21	18.85	54.08	84.83	97.53	81.95	49.01	21.05	15.02	20.26
140.5	16.33	21.01	53.32	83.18	93.29	80.07	48.02	21.40	15.13	20.39
141.0	16.33	22.64	52.81	81.54	91.25	78.18	47.03	21.52	15.23	20.51
141.5	16.21	23.64	52.29	79.87	88.96	76.29	46.15	21.41	15.46	20.64
142.0	16.27	23.65	51.54	78.38	86.92	74.93	45.28	21.52	15.34	20.77
142.5	16.32	23.76	50.92	77.79	84.68	74.58	44.46	21.53	15.59	20.89
143.0	16.37	23.84	50.44	77.02	82.64	72.84	43.70	21.77	15.59	21.61
143.5	16.42	23.92	49.80	75.50	80.87	71.19	42.96	21.65	15.61	22.51
144.0	16.47	23.99	49.42	73.98	79.01	69.56	42.34	21.76	15.64	22.50
144.5	16.53	24.07	49.04	72.73	78.38	67.95	41.84	21.40	15.66	22.49
145.0	16.58	24.15	48.42	71.34	77.49	66.44	41.10	21.15	15.69	22.48
145.5	16.46	24.27	48.06	70.02	75.81	64.77	40.39	20.91	15.71	22.47
146.0	16.52	25.04	47.55	68.74	73.77	63.11	39.11	20.66	15.72	22.45
146.5	16.58	25.89	47.06	67.58	72.49	61.60	37.22	20.66	15.83	22.44
147.0	16.64	25.89	46.81	66.27	70.95	60.18	31.82	20.54	15.72	22.43
147.5	16.70	25.89	46.31	64.90	69.22	58.70	20.01	20.18	15.96	22.42
148.0	16.72	25.89	45.69	63.77	67.71	57.20	9.71	20.17	15.96	22.41
148.5	16.74	25.89	44.80	62.62	66.06	55.56	6.16	20.05	15.96	22.40
149.0	16.76	25.89	43.88	61.46	64.77	53.77	6.16	19.67	15.96	22.39
149.5	16.78	25.89	42.27	60.45	63.22	52.15	6.27	19.56	15.96	22.38
150.0	16.81	25.89	37.86	59.38	61.84	50.61	6.16	19.43	15.96	22.37
150.5	16.81	25.89	30.81	58.36	60.33	49.10	6.28	19.06	15.96	22.35
151.0	16.82	25.89	22.10	57.47	58.94	47.97	6.79	18.82	15.96	22.34
151.5	16.83	25.89	15.74	56.33	57.68	47.08	7.92	18.69	15.96	22.33
152.0	16.84	25.89	9.63	55.31	56.42	46.05	12.51	18.44	15.96	22.32
152.5	16.84	25.89	6.13	54.19	55.29	44.22	19.48	18.31	15.96	22.31
153.0	16.85	26.02	6.01	53.23	54.11	40.69	24.86	17.96	15.96	22.30
153.5	16.86	26.02	6.01	52.21	52.83	31.06	24.62	17.59	15.96	22.29
154.0	16.87	26.02	5.76	51.28	51.43	16.56	24.35	17.47	15.96	22.28
154.5	16.87	26.02	5.74	49.75	50.15	7.49	24.08	17.59	15.96	22.27
155.0	16.88	26.02	5.39	47.99	48.50	7.11	23.81	17.58	15.96	22.14
155.5	16.89	26.02	5.50	43.62	46.15	6.74	23.54	17.34	15.96	22.02
156.0	16.90	26.02	5.89	34.00	39.50	6.37	23.27	17.46	15.96	22.02
156.5	16.90	26.02	6.27	21.74	26.00	6.00	23.01	17.20	15.95	21.89
157.0	16.91	26.02	6.87	10.65	12.07	5.63	22.38	16.45	15.95	21.64
157.5	16.92	26.02	8.12	5.79	5.31	6.45	21.80	15.75	15.95	21.76
158.0	16.93	26.02	12.24	5.51	5.11	11.04	21.05	15.74	15.95	21.64
158.5	16.93	26.02	18.46	5.25	5.11	19.21	21.04	15.70	15.84	21.64
159.0	16.94	26.02	24.05	4.76	4.99	25.00	21.02	15.66	15.96	21.62
159.5	16.95	26.02	28.44	4.88	5.23	25.12	21.00	15.62	16.09	21.60
160.0	17.07	26.02	29.15	5.04	5.72	25.24	20.98	15.58	16.21	21.59
160.5	17.30	26.02	29.28	5.63	6.73	25.36	20.97	15.59	16.46	21.57
161.0	17.55	25.76	29.11	8.53	12.70	25.47	20.88	15.59	16.70	21.55
161.5	17.80	25.51	28.94	15.82	21.65	25.59	20.81	15.60	16.95	21.53
162.0	18.17	25.27	28.76	22.94	27.80	25.09	20.72	15.60	17.07	21.51
162.5	18.31	25.24	28.59	27.76	27.90	24.62	20.64	15.61	17.32	21.26
163.0	18.54	25.22	28.41	27.69	28.00	24.12	20.56	15.62	17.44	20.77
163.5	18.79	25.19	28.16	27.62	28.10	23.99	20.68	15.62	17.57	20.76
164.0	18.92	25.17	27.52	27.54	27.86	23.85	20.68	15.62	17.70	20.64
164.5	19.29	25.14	27.16	27.47	27.63	23.46	20.44	15.77	18.07	20.26
165.0	19.42	25.14	26.66	27.40	27.39	22.75	20.32	16.35	18.44	20.16
165.5	19.55	24.89	26.03	27.32	27.16	22.87	20.32	16.61	18.56	20.06
166.0	19.55	24.89	25.78	27.25	26.92	22.85	20.44	16.85	18.81	19.96
166.5	19.66	24.51	25.52	27.17	26.16	22.83	20.29	17.23	19.31	19.93

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CANDELA TABULATION - (Cont.)

167.0	20.03	24.40	25.15	26.92	25.28	22.81	20.14	17.60	19.56	19.90
167.5	20.04	24.16	25.03	26.68	24.57	22.79	19.99	17.86	20.04	19.86
168.0	20.39	23.93	25.03	26.42	24.18	22.76	19.84	18.33	20.30	19.83
168.5	20.53	23.69	24.90	26.05	24.05	22.74	19.69	18.70	20.67	19.80
169.0	20.65	23.46	24.65	25.92	23.66	22.71	19.08	19.08	21.04	19.77
169.5	20.78	23.22	24.41	25.68	23.07	22.69	18.96	19.55	21.28	19.51
170.0	21.03	22.98	24.04	25.55	22.69	22.67	18.96	20.04	21.53	19.39
170.5	21.15	22.75	23.78	25.06	22.07	22.64	18.96	20.29	21.53	19.26
171.0	21.39	22.51	23.78	24.67	21.56	22.62	18.96	20.54	21.65	19.14
171.5	21.52	21.51	23.66	24.04	20.80	22.23	18.96	20.80	21.77	19.14
172.0	21.77	21.39	23.78	23.80	20.20	21.76	18.96	21.15	21.77	19.01
172.5	21.77	20.64	23.78	23.67	19.57	20.64	18.96	21.28	21.90	18.89
173.0	21.89	20.39	23.28	23.67	19.32	20.63	18.96	21.52	21.90	19.01
173.5	21.90	20.30	21.65	23.66	18.82	19.76	18.96	21.77	22.15	19.26
174.0	22.26	20.22	20.76	22.63	18.33	19.13	18.96	22.02	22.27	20.13
174.5	22.15	20.14	20.16	21.26	18.44	18.89	18.96	22.15	22.30	21.02
175.0	22.16	20.05	20.33	20.66	18.44	18.77	18.96	22.16	22.32	21.14
175.5	22.18	19.97	20.50	19.91	18.44	18.77	18.96	22.18	22.35	21.65
176.0	22.19	19.89	20.67	19.54	18.44	18.64	18.97	22.19	22.38	22.77
176.5	22.21	19.89	20.85	19.28	18.44	18.92	19.23	22.20	22.41	23.39
177.0	22.22	20.07	21.02	18.90	18.45	19.20	19.99	22.22	22.43	23.77
177.5	22.24	21.26	21.19	18.54	18.45	19.47	20.81	22.23	22.46	24.14
178.0	22.25	21.77	21.36	18.16	18.32	19.75	21.30	22.25	22.49	24.14
178.5	22.27	21.92	21.53	17.25	18.96	20.02	21.43	22.26	22.52	24.14
179.0	22.27	23.89	21.81	15.78	20.58	20.89	21.68	22.39	22.51	24.27
179.5	22.27	24.02	23.28	15.78	21.28	21.57	22.34	22.38	22.39	24.52
180.0	14.02	14.02	14.02	14.02	14.02	14.02	14.02	14.02	14.02	14.02

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	3013.60	3013.60	3013.60	3013.60	3013.60	3013.60	3013.60
0.5	3012.46	3015.88	3015.39	3013.93	3015.23	3011.48	3013.44
1.0	3014.25	3018.65	3013.93	3014.41	3015.39	3009.52	3015.56
1.5	3015.72	3018.65	3013.76	3014.41	3015.39	3010.01	3016.05
2.0	3014.09	3018.17	3012.95	3013.44	3015.07	3010.17	3015.88
2.5	3009.36	3015.39	3012.95	3012.95	3014.25	3009.68	3015.88
3.0	3009.85	3015.72	3013.76	3012.46	3011.48	3006.10	3013.27
3.5	3010.50	3013.76	3013.11	3010.99	3010.34	3003.81	3010.34
4.0	3006.42	3012.13	3011.15	3007.89	3008.54	3001.69	3005.93
4.5	3001.20	3006.59	3010.01	3004.95	3003.32	2999.90	3002.02
5.0	3003.65	3002.34	3006.91	3003.49	3002.18	2996.47	2999.41
5.5	3001.04	3002.18	3005.61	2997.13	3001.53	2991.91	2997.61
6.0	2996.47	2999.57	3005.61	2996.31	3000.88	2986.85	2993.70
6.5	2991.42	2999.08	3003.00	2996.15	2997.94	2981.79	2989.46
7.0	2986.69	2996.31	2998.76	2996.15	2992.56	2976.58	2987.01
7.5	2984.57	2989.62	2995.49	2992.72	2988.81	2973.15	2983.26
8.0	2981.96	2986.85	2993.54	2984.73	2984.73	2968.75	2978.04
8.5	2974.13	2982.94	2987.83	2977.88	2980.49	2964.02	2972.33
9.0	2966.30	2978.21	2985.38	2975.43	2975.76	2959.78	2964.99
9.5	2962.55	2972.82	2980.82	2972.17	2971.36	2955.21	2957.33
10.0	2957.66	2968.91	2974.62	2967.77	2965.65	2950.15	2949.83
10.5	2952.11	2968.09	2972.66	2966.46	2958.31	2942.98	2943.63
11.0	2946.89	2964.67	2967.93	2962.71	2951.95	2933.84	2937.10
11.5	2937.59	2957.49	2963.85	2958.14	2944.28	2926.83	2931.07
12.0	2933.19	2950.32	2958.63	2950.48	2937.27	2920.31	2923.89

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CANDELA TABULATION - (Cont.)

12.5	2926.99	2945.26	2952.27	2944.77	2931.07	2913.46	2914.92
13.0	2919.82	2939.71	2946.40	2938.57	2924.06	2906.93	2905.46
13.5	2912.48	2936.45	2940.53	2931.40	2916.55	2898.78	2894.37
14.0	2905.30	2929.60	2934.66	2926.50	2909.70	2886.87	2885.57
14.5	2897.63	2922.26	2928.46	2920.63	2901.22	2876.43	2875.13
15.0	2889.48	2916.39	2924.06	2913.94	2893.88	2866.97	2864.85
15.5	2881.16	2908.24	2918.02	2906.77	2885.73	2856.21	2855.72
16.0	2874.96	2900.73	2911.66	2899.43	2878.23	2845.12	2844.95
16.5	2868.44	2891.60	2906.12	2893.72	2869.58	2835.66	2834.35
17.0	2857.84	2882.96	2899.59	2884.26	2862.08	2826.36	2822.93
17.5	2845.77	2873.82	2890.95	2875.94	2850.50	2815.43	2810.54
18.0	2834.51	2867.14	2883.77	2866.97	2840.06	2805.32	2797.65
18.5	2825.22	2860.61	2877.41	2858.00	2828.48	2793.41	2785.58
19.0	2818.37	2851.97	2866.81	2852.13	2817.06	2780.85	2774.98
19.5	2806.62	2844.63	2859.14	2845.12	2807.44	2769.11	2763.73
20.0	2795.86	2836.64	2852.78	2835.33	2799.45	2757.86	2751.17
20.5	2785.58	2823.75	2842.02	2823.91	2790.64	2747.09	2738.78
21.0	2776.45	2816.08	2833.05	2813.80	2778.41	2734.86	2726.38
21.5	2766.01	2807.93	2824.89	2806.14	2766.67	2721.00	2711.70
22.0	2754.27	2798.47	2816.25	2796.02	2755.90	2705.83	2695.06
22.5	2742.69	2787.38	2806.79	2786.73	2744.32	2690.17	2680.55
23.0	2729.80	2776.94	2796.84	2776.13	2732.41	2676.63	2664.40
23.5	2716.92	2768.13	2786.07	2765.03	2720.83	2660.16	2648.25
24.0	2704.85	2758.35	2775.64	2753.78	2707.95	2644.99	2632.92
24.5	2692.13	2747.42	2767.48	2743.34	2695.39	2630.80	2616.94
25.0	2679.73	2735.84	2756.23	2733.39	2680.22	2615.31	2600.47
25.5	2665.71	2723.61	2744.81	2721.16	2665.87	2600.96	2584.81
26.0	2652.82	2711.21	2734.70	2711.37	2654.29	2586.93	2567.85
26.5	2640.10	2699.79	2725.73	2698.49	2640.10	2570.95	2550.39
27.0	2627.05	2690.99	2716.10	2684.14	2626.56	2553.66	2533.60
27.5	2613.03	2678.59	2703.71	2671.25	2610.42	2539.14	2516.96
28.0	2595.08	2666.20	2691.64	2662.12	2594.59	2522.83	2499.83
28.5	2581.22	2653.80	2679.57	2649.23	2579.59	2504.89	2480.75
29.0	2568.99	2641.57	2667.99	2639.28	2564.91	2487.93	2462.65
29.5	2553.49	2627.05	2657.55	2626.40	2551.54	2470.64	2445.03
30.0	2540.28	2613.84	2646.62	2611.39	2538.65	2453.02	2426.76
30.5	2524.79	2600.63	2633.90	2598.67	2522.83	2434.76	2408.99
31.0	2512.23	2587.58	2620.85	2585.62	2505.05	2417.96	2390.39
31.5	2496.90	2574.37	2608.46	2572.41	2487.11	2399.85	2371.31
32.0	2479.77	2560.18	2596.06	2558.39	2471.78	2381.91	2352.72
32.5	2462.16	2547.62	2582.20	2542.08	2456.29	2363.65	2333.96
33.0	2445.52	2532.62	2566.70	2527.23	2439.65	2344.73	2315.86
33.5	2428.56	2517.94	2551.70	2514.35	2422.04	2325.64	2295.80
34.0	2411.11	2504.24	2539.96	2500.98	2406.05	2306.07	2274.92
34.5	2395.12	2489.40	2526.91	2485.81	2387.13	2286.34	2254.21
35.0	2378.65	2474.55	2514.35	2473.09	2370.33	2266.60	2233.00
35.5	2361.20	2458.57	2501.95	2460.69	2352.72	2247.35	2213.10
36.0	2343.75	2443.07	2489.72	2445.20	2336.90	2228.11	2193.04
36.5	2328.25	2427.74	2476.02	2430.84	2318.79	2211.64	2174.12
37.0	2309.99	2414.21	2459.22	2414.86	2300.85	2194.35	2153.90
37.5	2291.88	2398.55	2443.73	2398.71	2283.56	2171.19	2133.35
38.0	2273.29	2381.91	2430.35	2381.42	2265.95	2150.47	2111.17
38.5	2257.14	2366.42	2415.18	2366.09	2247.35	2131.06	2089.80
39.0	2239.04	2350.11	2398.55	2350.43	2229.41	2111.49	2068.60
39.5	2221.26	2334.94	2383.22	2336.57	2214.08	2093.39	2047.07
40.0	2205.11	2319.93	2371.15	2321.40	2195.98	2073.16	2025.05

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40.5	2185.87	2304.60	2355.65	2304.11	2174.94	2048.37	2003.85
41.0	2167.76	2287.48	2340.65	2287.64	2155.86	2029.45	1982.15
41.5	2146.72	2273.12	2322.54	2271.98	2138.08	2009.72	1961.28
42.0	2127.97	2256.65	2307.54	2255.35	2118.67	1988.52	1938.93
42.5	2112.47	2241.32	2293.35	2238.87	2099.26	1966.50	1916.43
43.0	2093.55	2224.36	2277.69	2221.91	2080.01	1946.11	1894.90
43.5	2073.33	2206.09	2260.40	2203.48	2061.75	1923.60	1873.20
44.0	2053.76	2190.92	2242.63	2185.70	2043.15	1900.77	1848.25
44.5	2036.47	2174.29	2226.64	2168.74	2022.28	1880.87	1827.54
45.0	2018.69	2155.53	2211.31	2151.13	2002.22	1858.20	1803.56
45.5	1999.44	2138.73	2194.18	2134.82	1983.79	1839.44	1781.05
46.0	1979.54	2122.26	2177.87	2117.04	1963.40	1816.61	1758.22
46.5	1958.50	2105.29	2162.71	2100.24	1943.83	1793.77	1736.04
47.0	1936.65	2087.19	2145.42	2083.44	1922.13	1772.41	1713.69
47.5	1915.28	2069.74	2129.43	2065.01	1902.56	1751.37	1690.86
48.0	1895.55	2051.64	2112.47	2047.23	1884.62	1729.68	1667.86
48.5	1876.79	2034.51	2095.51	2030.60	1866.35	1708.64	1644.37
49.0	1858.20	2018.53	2077.89	2012.16	1845.15	1684.33	1621.36
49.5	1838.95	1999.77	2059.46	1994.88	1826.07	1664.27	1599.91
50.0	1819.38	1981.99	2043.64	1978.40	1804.86	1641.11	1576.93
50.5	1799.81	1964.38	2027.01	1960.14	1784.48	1620.46	1553.23
51.0	1779.91	1946.44	2009.39	1941.71	1763.93	1599.38	1529.44
51.5	1757.57	1928.33	1991.61	1922.79	1742.40	1576.75	1506.54
52.0	1738.16	1910.55	1974.33	1904.36	1723.48	1554.23	1482.82
52.5	1718.91	1892.12	1957.20	1886.58	1703.91	1531.36	1459.76
53.0	1698.52	1873.69	1938.93	1868.15	1683.19	1508.84	1436.39
53.5	1677.97	1856.57	1921.48	1850.04	1662.80	1487.50	1413.95
54.0	1658.07	1838.79	1903.70	1832.10	1642.58	1465.16	1390.61
54.5	1638.01	1820.03	1886.74	1813.51	1621.33	1444.97	1367.69
55.0	1618.18	1801.28	1869.29	1794.59	1601.17	1421.84	1344.66
55.5	1597.79	1781.87	1849.88	1776.00	1582.77	1398.75	1320.72
56.0	1578.17	1765.23	1832.59	1757.40	1563.40	1376.45	1296.22
56.5	1558.50	1747.13	1815.79	1738.32	1544.00	1354.45	1272.03
57.0	1539.99	1728.04	1798.99	1719.24	1523.58	1333.23	1249.04
57.5	1519.33	1709.29	1781.54	1700.48	1502.09	1311.60	1226.01
58.0	1499.43	1692.16	1763.27	1682.87	1481.76	1288.73	1203.11
58.5	1478.93	1674.06	1744.84	1664.11	1460.84	1267.21	1179.49
59.0	1460.64	1655.79	1728.37	1645.68	1441.59	1245.19	1156.71
59.5	1440.99	1637.52	1710.76	1627.36	1421.17	1222.91	1132.97
60.0	1421.86	1617.71	1692.00	1608.51	1399.89	1201.38	1110.04
60.5	1402.32	1600.30	1674.06	1589.93	1380.05	1179.47	1086.36
61.0	1383.95	1582.27	1656.12	1571.27	1360.29	1157.46	1062.69
61.5	1364.04	1563.64	1639.32	1552.97	1341.27	1134.12	1039.88
62.0	1344.04	1546.87	1621.07	1534.36	1320.96	1113.92	1017.24
62.5	1323.64	1528.39	1602.90	1515.88	1300.43	1091.76	994.13
63.0	1304.25	1509.87	1587.14	1498.37	1280.12	1069.74	970.74
63.5	1285.73	1491.71	1569.30	1480.51	1262.23	1047.12	948.31
64.0	1267.03	1472.91	1550.54	1461.46	1243.25	1026.32	924.45
64.5	1247.91	1453.55	1531.95	1443.14	1223.98	1004.09	900.52
65.0	1228.00	1434.79	1515.44	1426.55	1204.71	983.92	877.66
65.5	1209.47	1416.77	1497.83	1409.23	1186.00	963.28	855.13
66.0	1191.02	1399.56	1480.98	1390.80	1165.87	941.92	832.50
66.5	1172.18	1382.14	1462.75	1374.51	1147.23	920.65	809.84
67.0	1153.48	1364.80	1445.15	1357.20	1128.57	899.43	786.50
67.5	1135.09	1346.83	1426.86	1339.83	1110.22	877.69	763.93
68.0	1116.52	1329.62	1409.85	1322.89	1091.82	857.38	740.57

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CANDELA TABULATION - (Cont.)

68.5	1098.79	1311.86	1392.56	1306.51	1073.74	836.85	718.03
69.0	1080.36	1294.44	1376.97	1289.11	1055.63	817.03	695.38
69.5	1061.65	1276.21	1358.84	1273.13	1036.96	797.02	672.25
70.0	1043.37	1258.64	1341.81	1254.03	1018.76	776.26	650.41
70.5	1025.41	1241.39	1325.76	1238.19	1001.16	755.72	628.64
71.0	1007.58	1224.96	1308.47	1220.92	984.01	735.70	606.76
71.5	989.51	1208.62	1292.83	1202.85	966.35	715.44	584.37
72.0	972.12	1191.28	1274.56	1184.61	948.77	695.52	563.09
72.5	953.50	1175.01	1258.14	1167.54	932.21	676.51	540.92
73.0	936.55	1158.40	1242.79	1151.60	915.15	657.00	519.25
73.5	919.64	1140.71	1226.68	1134.59	897.77	637.35	498.06
74.0	902.74	1123.33	1210.14	1118.03	880.05	617.92	477.28
74.5	884.93	1107.61	1194.04	1100.86	863.60	599.38	456.50
75.0	868.12	1091.68	1177.81	1084.31	846.95	580.98	435.13
75.5	852.49	1075.87	1162.01	1067.69	829.90	561.93	414.26
76.0	835.58	1058.03	1145.40	1051.69	813.23	543.89	393.25
76.5	818.68	1042.18	1129.91	1036.91	796.86	525.20	373.09
77.0	801.93	1025.15	1113.65	1018.69	780.43	507.06	353.45
77.5	786.03	1009.08	1097.78	1002.36	762.10	490.39	333.51
78.0	770.29	993.85	1082.25	987.47	746.88	473.58	314.18
78.5	754.88	978.57	1067.52	971.95	732.65	456.27	294.77
79.0	739.20	962.50	1052.48	955.03	717.38	440.35	275.97
79.5	723.84	946.88	1036.99	939.37	702.75	424.35	257.40
80.0	707.22	930.88	1021.90	923.00	687.40	407.64	238.81
80.5	691.07	915.43	1006.88	906.80	672.41	392.43	220.20
81.0	676.05	899.40	992.30	890.69	656.35	376.97	202.80
81.5	660.90	884.18	977.44	875.05	641.62	362.00	184.91
82.0	644.69	868.59	963.09	860.04	626.76	347.03	168.43
82.5	628.60	853.88	949.01	843.72	611.63	332.14	152.52
83.0	612.62	838.30	934.84	827.10	595.45	318.13	137.18
83.5	597.61	821.80	918.95	810.79	579.45	303.32	121.51
84.0	581.30	804.36	901.60	792.71	562.91	289.18	107.01
84.5	563.77	786.45	884.72	774.95	545.19	274.58	93.44
85.0	544.90	767.34	864.89	756.59	527.37	259.93	80.00
85.5	526.86	741.80	833.03	732.66	507.94	245.40	67.33
86.0	505.48	702.34	788.23	695.78	486.25	230.80	54.94
86.5	477.75	651.31	725.81	645.39	460.43	214.84	43.08
87.0	436.77	579.36	639.40	579.35	423.03	197.97	33.27
87.5	382.37	483.38	528.33	490.02	372.46	178.51	24.87
88.0	305.75	370.71	402.76	380.72	309.37	154.79	17.76
88.5	213.58	248.04	267.34	259.90	224.07	121.54	11.26
89.0	111.05	127.05	140.56	142.05	132.32	78.35	6.11
89.5	29.87	33.74	36.74	41.89	47.86	31.39	3.29
90.0	16.23	20.86	21.29	18.52	13.73	7.27	3.00
90.5	31.14	37.52	39.10	32.64	23.41	12.02	2.72
91.0	60.04	66.08	66.45	59.45	47.13	30.87	2.43
91.5	109.10	113.08	111.71	101.13	86.84	64.28	2.42
92.0	180.49	184.32	182.18	167.34	150.14	92.94	2.40
92.5	265.97	273.50	271.89	253.93	233.33	104.72	2.39
93.0	329.56	376.27	375.37	349.80	306.09	107.33	2.37
93.5	350.21	481.86	487.20	454.38	334.86	109.33	2.36
94.0	359.77	535.10	588.14	517.61	347.78	111.31	2.35
94.5	357.35	542.49	613.37	527.66	345.45	111.17	2.33
95.0	353.19	544.51	611.07	530.91	339.36	109.17	2.32
95.5	348.01	540.09	606.90	528.28	332.37	105.38	2.31
96.0	341.74	532.34	598.58	521.99	326.41	101.73	2.29

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CANDELA TABULATION - (Cont.)

96.5	335.38	524.55	589.28	512.57	322.40	98.10	2.28
97.0	329.12	517.34	580.28	504.52	319.33	94.55	2.26
97.5	322.55	510.99	571.45	496.97	314.28	91.18	2.25
98.0	316.04	504.84	564.08	490.98	308.26	87.86	2.24
98.5	309.03	496.31	556.02	485.39	301.62	84.66	2.22
99.0	301.69	487.83	547.49	480.97	294.61	81.53	2.23
99.5	294.44	480.26	539.24	474.26	287.87	78.69	2.47
100.0	287.82	472.19	532.06	465.29	280.83	75.91	2.71
100.5	281.17	464.00	522.59	457.28	274.77	73.15	2.72
101.0	274.19	455.07	513.36	448.62	268.54	70.65	2.96
101.5	267.30	446.86	504.40	440.22	261.92	68.03	3.09
102.0	261.20	439.08	495.45	431.74	255.41	65.66	3.34
102.5	254.93	431.01	486.12	422.71	249.31	63.52	3.58
103.0	248.76	422.53	477.65	414.63	243.18	61.42	3.83
103.5	242.43	414.18	469.09	406.46	237.08	59.30	4.08
104.0	236.10	405.97	460.09	399.15	231.01	57.56	4.33
104.5	229.60	397.92	451.17	391.21	225.80	55.71	4.45
105.0	223.12	389.87	443.26	383.46	220.25	53.95	4.80
105.5	216.30	381.28	435.10	375.75	214.66	52.32	5.06
106.0	209.68	373.24	427.86	368.08	209.50	50.82	5.31
106.5	203.06	365.18	419.17	361.09	204.35	49.19	5.44
107.0	196.76	357.61	410.98	353.85	199.52	47.83	5.57
107.5	190.57	350.22	403.26	346.85	194.95	46.43	5.45
108.0	184.37	342.79	395.21	339.61	190.01	45.06	5.44
108.5	178.07	335.24	387.54	332.84	185.40	43.94	5.80
109.0	172.30	328.04	380.07	326.02	180.75	42.68	6.18
109.5	167.65	320.30	371.90	319.28	176.28	41.63	6.65
110.0	164.37	313.17	365.25	312.74	171.99	40.14	6.80
110.5	161.46	305.58	357.66	305.91	167.60	38.88	6.93
111.0	158.17	297.66	350.47	299.26	163.12	38.01	6.81
111.5	155.19	290.63	343.39	292.60	159.26	37.01	6.80
112.0	152.27	283.39	336.88	286.44	155.51	36.19	7.04
112.5	149.26	275.69	329.93	280.32	151.89	35.44	7.17
113.0	146.53	268.17	322.89	273.78	148.00	34.68	7.54
113.5	144.13	261.07	315.99	267.70	144.34	33.98	7.78
114.0	141.75	253.95	309.50	261.65	140.76	33.36	8.14
114.5	139.21	247.54	303.15	255.41	137.15	32.61	8.40
115.0	136.93	241.45	296.24	249.51	133.66	31.99	8.53
115.5	134.38	235.22	289.63	243.57	130.26	31.36	8.78
116.0	131.30	229.76	283.21	237.91	126.88	30.78	9.02
116.5	128.36	224.75	277.16	232.34	123.38	30.51	9.15
117.0	125.67	220.63	270.79	226.87	120.34	30.02	9.03
117.5	122.90	216.47	264.52	221.38	117.36	29.77	9.03
118.0	120.06	212.26	258.15	215.80	113.72	29.52	9.26
118.5	116.15	208.69	251.92	210.61	110.08	29.17	9.16
119.0	113.57	204.77	245.68	205.33	106.96	28.79	9.51
119.5	110.91	201.22	239.66	200.66	104.58	28.42	9.53
120.0	108.25	197.91	233.35	195.74	102.07	28.17	9.77
120.5	105.86	194.25	227.31	191.01	99.74	27.80	10.02
121.0	103.71	190.83	222.26	186.34	97.49	27.43	10.25
121.5	102.16	187.35	216.65	181.84	96.08	27.19	10.50
122.0	99.88	183.42	211.31	177.14	93.85	26.94	10.76
122.5	97.58	179.31	206.09	172.82	91.46	26.56	11.01
123.0	95.44	175.30	200.96	168.45	89.48	26.19	11.36
123.5	93.18	171.50	196.36	164.18	87.47	25.96	11.38
124.0	91.38	167.23	191.64	160.03	85.25	25.71	11.74

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CANDELA TABULATION - (Cont.)

124.5	89.87	163.65	186.99	156.27	83.01	25.56	11.87
125.0	88.33	158.29	182.18	150.34	81.00	25.42	11.99
125.5	86.54	153.42	178.02	146.32	78.77	25.27	12.12
126.0	84.77	149.79	173.75	142.90	76.89	25.12	12.24
126.5	83.12	146.24	169.71	139.75	74.90	24.97	12.32
127.0	81.47	142.70	164.45	136.62	73.27	24.73	12.39
127.5	79.82	139.01	159.40	133.32	71.65	24.22	12.47
128.0	78.27	135.90	156.19	130.24	70.12	23.40	12.54
128.5	76.74	134.67	152.88	129.64	68.62	21.45	12.62
129.0	75.07	131.87	149.20	126.63	67.23	17.35	12.74
129.5	73.44	128.76	145.93	124.14	64.75	12.89	13.09
130.0	70.79	125.96	142.45	121.39	63.45	10.09	13.11
130.5	69.48	122.93	140.38	118.97	62.20	9.72	13.35
131.0	67.96	120.25	138.60	116.45	61.07	9.72	13.24
131.5	66.56	117.58	135.55	114.17	60.07	9.72	13.47
132.0	65.23	115.18	132.19	111.55	58.89	9.60	13.60
132.5	63.95	112.87	129.26	109.00	58.00	9.59	13.73
133.0	62.71	110.38	126.40	106.41	57.02	10.14	13.97
133.5	61.44	107.84	123.76	104.14	55.90	10.69	14.10
134.0	60.37	105.69	120.73	101.88	55.77	11.23	14.23
134.5	60.32	103.31	118.13	99.39	54.83	11.78	14.58
135.0	59.35	100.91	115.24	97.26	53.96	12.33	14.60
135.5	58.20	98.72	112.70	95.09	52.96	12.88	14.96
136.0	57.19	96.44	109.94	92.83	52.21	13.42	14.97
136.5	56.30	94.31	107.43	90.70	51.59	16.01	15.20
137.0	55.34	91.19	104.92	86.66	51.00	18.35	15.34
137.5	54.32	87.75	102.37	84.29	50.13	18.57	15.46
138.0	53.43	85.67	99.70	82.25	49.37	18.78	15.58
138.5	52.60	83.64	97.34	80.36	48.67	19.00	15.94
139.0	51.70	81.58	95.14	78.70	47.91	19.22	15.96
139.5	50.81	79.67	90.61	77.18	47.16	19.43	16.20
140.0	50.17	77.76	88.10	75.39	46.53	19.56	16.21
140.5	49.33	76.08	86.18	73.86	45.94	19.67	16.33
141.0	48.56	74.41	84.14	72.09	45.19	19.80	16.33
141.5	47.79	73.40	82.11	71.57	44.69	20.43	16.21
142.0	47.08	73.28	80.58	70.75	44.10	21.48	16.27
142.5	46.44	71.67	78.80	69.26	43.47	21.52	16.32
143.0	45.81	70.15	76.79	67.75	43.10	21.57	16.37
143.5	45.17	68.76	75.41	66.49	42.35	21.61	16.42
144.0	44.46	67.33	75.17	65.22	41.88	21.65	16.47
144.5	43.82	65.92	73.70	63.80	40.79	21.69	16.53
145.0	43.18	64.65	71.80	62.40	39.66	21.73	16.58
145.5	42.17	63.26	70.30	61.15	37.81	21.77	16.46
146.0	40.30	61.88	68.92	60.03	33.15	21.81	16.52
146.5	36.43	60.61	67.41	58.89	26.05	21.82	16.58
147.0	29.91	59.31	65.75	57.60	17.18	21.82	16.64
147.5	21.78	58.03	64.46	56.57	10.00	21.83	16.70
148.0	14.24	56.99	62.81	55.42	9.70	21.84	16.72
148.5	9.95	55.79	61.51	54.24	9.40	21.84	16.74
149.0	9.64	54.65	60.12	53.11	9.10	21.85	16.76
149.5	9.64	53.52	58.75	52.10	8.80	21.86	16.78
150.0	9.51	52.49	57.47	51.09	8.50	21.86	16.81
150.5	9.51	51.48	56.08	50.08	9.69	21.87	16.81
151.0	9.37	50.34	54.95	49.26	10.88	21.88	16.82
151.5	8.06	49.39	53.65	48.03	12.08	21.88	16.83
152.0	8.01	47.89	52.51	46.28	13.27	21.89	16.84

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CANDELA TABULATION - (Cont.)

152.5	8.87	45.76	51.37	42.91	14.46	21.90	16.84
153.0	13.91	40.42	50.10	35.51	19.69	21.90	16.85
153.5	19.11	29.85	48.92	24.03	24.97	21.91	16.86
154.0	23.38	19.10	46.94	13.78	26.19	21.92	16.87
154.5	26.37	11.16	42.91	9.37	26.23	21.92	16.87
155.0	26.29	8.77	33.41	9.20	26.28	21.93	16.88
155.5	26.21	8.52	21.17	9.19	26.33	21.94	16.89
156.0	26.14	8.27	11.71	8.93	26.37	21.94	16.90
156.5	26.06	8.02	8.21	8.11	26.42	21.95	16.90
157.0	25.98	7.77	7.86	7.35	26.46	21.96	16.91
157.5	25.91	7.52	7.60	7.21	26.47	21.96	16.92
158.0	25.90	8.20	7.34	10.79	26.59	21.97	16.93
158.5	25.78	13.60	6.50	17.11	26.48	21.98	16.93
159.0	25.90	20.08	6.48	22.96	26.59	21.98	16.94
159.5	25.78	25.90	8.19	28.26	26.60	21.99	16.95
160.0	25.78	26.48	14.34	28.27	26.47	22.00	17.07
160.5	25.65	27.06	20.89	28.28	26.22	22.00	17.30
161.0	25.54	27.64	21.62	28.29	25.98	22.01	17.55
161.5	25.40	28.23	22.35	28.30	25.85	21.88	17.80
162.0	25.28	28.81	23.08	28.31	25.74	21.18	18.17
162.5	25.28	28.66	23.80	28.32	25.73	20.55	18.31
163.0	25.15	28.52	24.53	28.33	25.61	20.42	18.54
163.5	25.03	28.37	25.26	27.97	25.51	20.30	18.79
164.0	24.78	28.23	25.99	27.35	25.41	20.29	18.92
164.5	24.65	28.08	26.71	26.85	25.31	20.17	19.29
165.0	24.53	27.94	27.44	26.47	25.18	20.05	19.42
165.5	24.40	27.18	28.17	26.22	25.06	20.05	19.55
166.0	24.28	26.46	28.05	25.75	24.93	19.93	19.55
166.5	24.24	26.07	27.80	25.61	24.80	19.93	19.66
167.0	24.20	25.43	27.43	25.60	24.67	19.80	20.03
167.5	24.16	25.05	27.17	25.51	24.54	19.68	20.04
168.0	24.11	24.92	26.93	25.41	24.41	19.55	20.39
168.5	24.07	24.44	26.68	25.31	24.28	19.44	20.53
169.0	24.03	23.94	26.68	25.21	24.15	19.31	20.65
169.5	24.03	23.56	26.39	25.01	24.02	19.31	20.78
170.0	23.40	23.17	26.11	24.81	22.42	19.19	21.03
170.5	23.04	22.93	25.82	24.60	21.35	19.19	21.15
171.0	21.80	22.80	25.54	24.40	21.18	19.31	21.39
171.5	20.91	22.19	25.25	24.20	20.94	19.79	21.52
172.0	20.53	20.58	24.97	24.00	20.69	20.04	21.77
172.5	20.40	20.04	24.69	22.25	20.44	20.29	21.77
173.0	20.16	19.09	23.41	21.42	20.21	21.29	21.89
173.5	19.66	18.68	21.87	21.02	19.84	22.47	21.90
174.0	19.52	18.42	21.20	20.64	19.70	23.35	22.26
174.5	19.15	18.29	20.82	20.26	19.46	24.10	22.15
175.0	18.65	18.16	20.57	20.01	19.58	24.16	22.16
175.5	18.64	18.16	20.21	19.65	20.40	24.22	22.18
176.0	18.53	18.04	19.83	19.64	20.79	24.29	22.19
176.5	19.62	17.67	19.63	19.88	22.50	24.35	22.21
177.0	20.27	18.77	19.43	21.00	23.50	24.41	22.22
177.5	21.65	19.91	19.23	23.12	24.01	24.47	22.24
178.0	22.78	22.30	19.03	24.11	24.26	24.54	22.25
178.5	23.26	23.26	18.83	24.11	24.26	24.60	22.27
179.0	23.65	23.42	18.33	24.11	24.13	24.60	22.27
179.5	23.90	23.42	16.21	24.11	24.13	24.60	22.27
180.0	14.02	14.02	14.02	14.02	14.02	14.02	14.02

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1100.06	N.A.	10.80
0-30	2331.77	N.A.	22.80
0-40	3813.79	N.A.	37.40
0-60	6798.7	N.A.	66.60
0-80	8887.35	N.A.	87.10
0-90	9383.04	N.A.	91.90
10-90	9097.95	N.A.	89.10
20-40	2713.73	N.A.	26.60
20-50	4260.23	N.A.	41.70
40-70	4184.35	N.A.	41.00
60-80	2088.65	N.A.	20.50
70-80	889.22	N.A.	8.70
80-90	495.68	N.A.	4.90
90-110	496.45	N.A.	4.90
90-120	642.78	N.A.	6.30
90-130	728.60	N.A.	7.10
90-150	802.96	N.A.	7.90
90-180	822.46	N.A.	8.10
110-180	326.01	N.A.	3.20
0-180	10205.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	285.09
10-20	814.97
20-30	1231.72
30-40	1482.01
40-50	1546.5
50-60	1438.42
60-70	1199.44
70-80	889.22
80-90	495.68
90-100	256.83
100-110	239.62
110-120	146.33
120-130	85.82
130-140	47.28
140-150	27.08
150-160	10.98
160-170	6.49
170-180	2.03

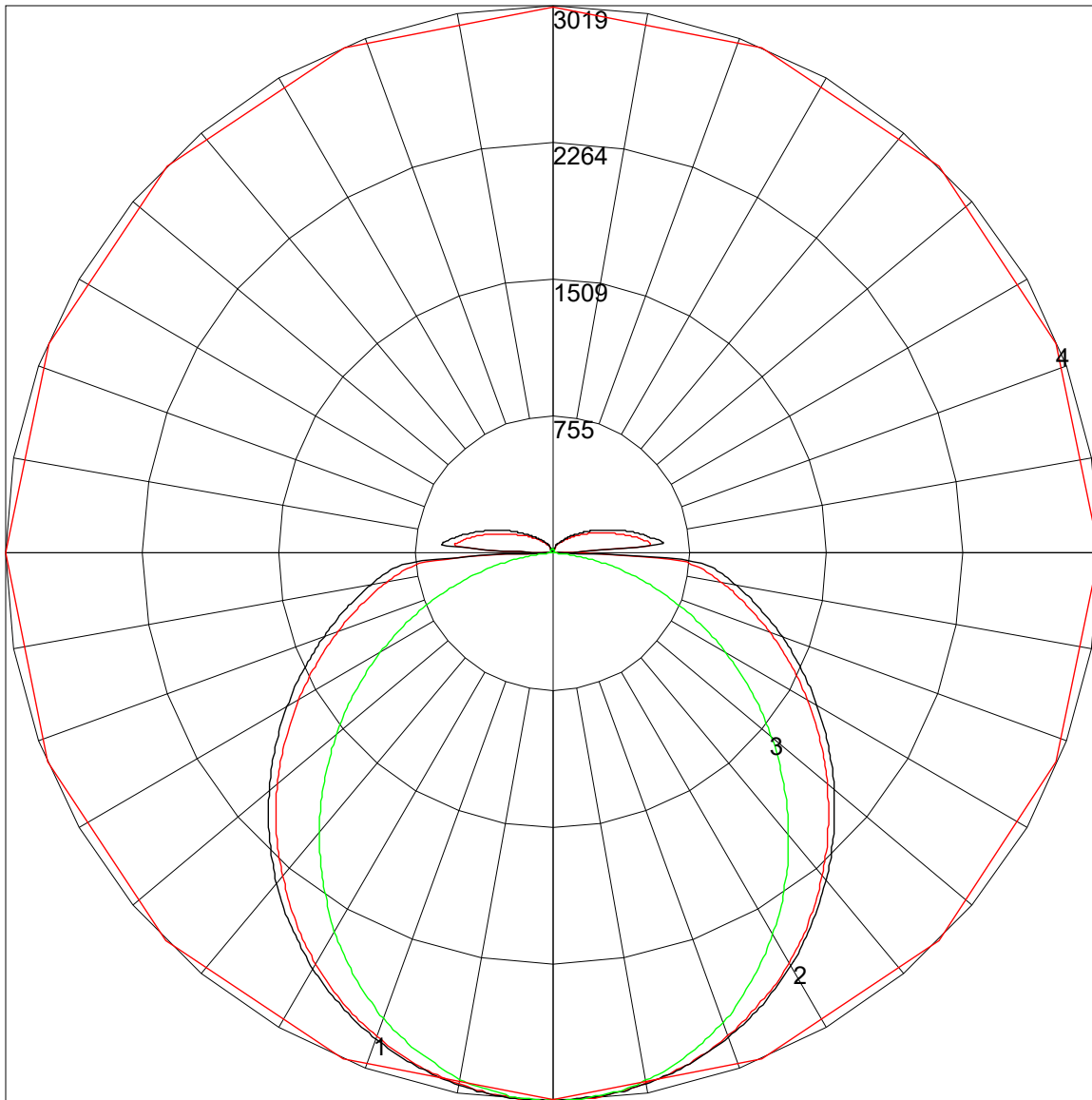
IES INDOOR REPORT
PHOTOMETRIC FILENAME : S-LED8-90PS-8CSA_75W_4K.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	100	95	91	102	97	92	88	91	87	84	86	83	80	81	78	76	73
2	95	86	79	73	92	84	77	71	79	73	68	74	69	65	70	66	63	60
3	86	75	67	60	83	73	65	59	69	62	57	65	59	55	61	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	58	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	42	36	31	40	35	30	28
8	58	44	35	29	56	43	35	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

POLAR GRAPH



Maximum Candela = 3018.65 Located At Horizontal Angle = 247.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (247.5 - 67.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)