



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S-LED8-90PS-8CSA_90W_4K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[TESTLAB]

[TESTDATE] 2022-07-08

[ISSUE DATE] 2022-07-19

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] Lamar LED

[LUMCAT] S-LED8-90PS-8CSA_90W_4K

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

[MORE] Note: This file was prorated from measured data using a lumen factor of 1.914 to simulate the lumen output of an 8', 90W, 4000K luminaire.

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11976
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	90
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	17041	26078	246164
55	11243	18771	253919
65	6765	13338	275461
75	3202	9151	338309
85	580	5791	624374

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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	3536.50	3536.50	3536.50	3536.50	3536.50	3536.50	3536.50	3536.50	3536.50	3536.50
0.5	3536.31	3534.58	3536.11	3537.65	3535.92	3535.54	3536.31	3534.39	3538.03	3536.50
1.0	3538.79	3531.90	3535.73	3539.75	3533.24	3534.01	3534.97	3532.67	3539.37	3535.73
1.5	3539.37	3530.56	3536.50	3539.56	3532.48	3533.82	3531.71	3530.56	3538.60	3535.35
2.0	3539.18	3530.37	3538.99	3539.56	3532.67	3535.73	3532.10	3528.65	3534.39	3533.63
2.5	3539.18	3530.18	3536.50	3536.11	3531.90	3535.92	3532.10	3526.74	3532.10	3532.10
3.0	3536.11	3529.42	3534.58	3533.82	3527.12	3535.73	3527.69	3525.78	3530.76	3529.80
3.5	3532.67	3525.01	3532.67	3530.95	3527.50	3528.84	3525.40	3520.42	3528.65	3528.08
4.0	3527.50	3520.99	3530.76	3531.71	3527.50	3527.12	3520.23	3516.40	3528.08	3524.06
4.5	3522.91	3517.17	3528.84	3532.29	3525.97	3525.78	3518.70	3511.62	3523.67	3520.04
5.0	3519.85	3514.10	3526.93	3531.14	3523.48	3525.21	3516.78	3510.47	3516.59	3516.40
5.5	3517.74	3512.00	3522.33	3523.87	3520.80	3519.65	3516.21	3508.94	3509.51	3509.32
6.0	3513.15	3507.21	3521.57	3518.31	3518.12	3516.21	3512.76	3505.11	3503.77	3503.77
6.5	3508.17	3500.32	3516.21	3516.40	3515.44	3511.42	3506.26	3499.17	3498.60	3499.37
7.0	3505.30	3494.39	3508.74	3511.42	3512.57	3507.41	3500.51	3494.96	3496.11	3496.69
7.5	3500.90	3490.75	3503.58	3506.64	3509.89	3504.53	3494.77	3489.03	3490.75	3492.67
8.0	3494.77	3485.59	3500.32	3503.58	3504.53	3500.32	3488.46	3481.18	3483.48	3487.31
8.5	3488.07	3479.46	3493.24	3499.37	3498.41	3496.50	3485.01	3475.25	3477.16	3481.95
9.0	3479.46	3473.72	3486.93	3494.58	3493.05	3491.90	3477.55	3468.74	3470.85	3474.68
9.5	3470.46	3466.06	3481.37	3486.73	3488.07	3485.97	3470.08	3461.28	3463.57	3467.40
10.0	3461.66	3456.49	3475.44	3479.84	3483.86	3480.23	3462.81	3452.09	3456.11	3460.13
10.5	3454.39	3447.31	3466.45	3474.10	3479.84	3474.29	3455.54	3441.75	3445.77	3456.30
11.0	3446.73	3440.42	3457.26	3469.89	3472.76	3467.02	3445.77	3431.80	3434.10	3448.26
11.5	3439.65	3433.14	3452.47	3464.91	3466.45	3462.81	3440.99	3421.85	3422.04	3440.61
12.0	3431.23	3423.57	3447.88	3461.09	3458.79	3457.07	3437.16	3412.47	3411.51	3429.12
12.5	3420.70	3416.11	3440.99	3453.81	3455.34	3451.13	3429.70	3403.67	3398.50	3417.26
13.0	3409.60	3406.92	3431.99	3444.43	3449.60	3440.42	3418.21	3393.14	3386.82	3409.41
13.5	3396.58	3396.97	3421.85	3436.01	3443.86	3433.33	3405.01	3382.04	3375.91	3400.99
14.0	3386.25	3389.50	3413.24	3432.38	3437.16	3423.00	3393.71	3369.41	3363.66	3391.03
14.5	3374.00	3378.21	3404.43	3425.68	3426.06	3418.79	3386.25	3358.30	3352.75	3382.23
15.0	3361.94	3367.49	3395.24	3418.21	3417.45	3411.71	3376.10	3348.35	3342.61	3370.36
15.5	3351.22	3355.43	3386.06	3406.73	3409.79	3401.94	3367.11	3337.06	3332.08	3357.73
16.0	3338.59	3344.14	3378.02	3397.54	3402.90	3391.61	3357.54	3323.09	3318.49	3343.18
16.5	3326.15	3333.04	3366.53	3387.78	3395.63	3383.38	3347.39	3308.73	3304.52	3330.74
17.0	3312.75	3323.28	3358.11	3380.51	3385.67	3372.09	3335.91	3294.38	3289.78	3319.45
17.5	3298.20	3311.60	3345.67	3372.66	3376.10	3364.62	3325.00	3279.83	3276.00	3306.44
18.0	3283.08	3298.78	3337.06	3361.56	3366.34	3355.82	3314.28	3267.96	3260.88	3294.95
18.5	3268.92	3287.87	3322.51	3352.37	3356.39	3346.63	3303.76	3254.37	3247.10	3282.70
19.0	3256.48	3275.43	3309.69	3340.70	3348.35	3332.08	3291.89	3239.83	3232.36	3270.07
19.5	3243.27	3260.31	3296.86	3331.51	3340.31	3320.22	3278.11	3225.66	3218.20	3255.91
20.0	3228.54	3245.38	3285.76	3320.79	3328.83	3311.41	3264.52	3210.93	3203.27	3241.74
20.5	3213.99	3233.32	3272.75	3310.65	3316.01	3300.88	3252.46	3195.61	3188.72	3227.96
21.0	3199.44	3217.82	3258.58	3299.35	3308.16	3289.21	3238.11	3180.11	3171.88	3212.84
21.5	3182.22	3203.27	3247.48	3285.19	3298.20	3276.58	3223.94	3163.46	3153.31	3195.04
22.0	3162.69	3187.58	3235.62	3273.13	3287.30	3266.62	3209.97	3147.19	3135.51	3178.58
22.5	3145.66	3172.65	3223.37	3262.41	3277.92	3254.18	3195.81	3130.35	3118.67	3163.84
23.0	3126.71	3158.29	3212.46	3247.48	3263.75	3244.61	3181.26	3113.89	3100.68	3149.10
23.5	3107.76	3141.64	3196.57	3236.57	3251.31	3230.07	3164.99	3096.85	3082.69	3134.18
24.0	3089.77	3126.33	3181.45	3223.37	3244.23	3216.86	3147.76	3078.67	3064.31	3114.84
24.5	3071.01	3109.68	3166.52	3208.44	3233.70	3202.31	3133.41	3061.25	3045.75	3096.66
25.0	3051.68	3093.22	3151.78	3192.93	3219.35	3187.96	3117.14	3042.30	3026.03	3082.11
25.5	3033.31	3075.99	3135.13	3187.96	3208.44	3173.79	3101.25	3022.78	3006.51	3067.19
26.0	3013.40	3058.38	3117.71	3175.71	3191.98	3160.01	3084.41	3003.64	2988.33	3051.87
26.5	2992.92	3040.20	3102.59	3162.12	3177.62	3150.44	3068.91	2986.03	2969.00	3030.05

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27.0	2973.21	3023.35	3087.66	3149.87	3163.84	3135.90	3053.02	2967.66	2948.52	3010.91
27.5	2953.68	3004.98	3072.93	3136.85	3146.23	3116.76	3036.94	2948.90	2927.08	2991.58
28.0	2933.59	2987.95	3057.04	3124.80	3134.18	3102.21	3020.87	2930.33	2907.17	2971.68
28.5	2911.19	2971.49	3036.56	3108.53	3120.59	3088.62	3002.68	2912.15	2889.18	2950.81
29.0	2889.95	2950.05	3017.04	3091.30	3111.40	3075.03	2983.93	2893.01	2869.28	2933.01
29.5	2869.28	2929.19	3001.92	3076.56	3095.32	3060.49	2964.40	2872.15	2847.46	2913.87
30.0	2847.84	2908.90	2984.12	3060.10	3082.50	3043.64	2945.45	2850.90	2825.64	2893.78
30.5	2826.98	2888.80	2968.23	3043.83	3068.14	3025.65	2926.89	2829.47	2802.10	2871.57
31.0	2805.16	2869.85	2949.67	3027.95	3053.60	3009.96	2909.47	2808.22	2780.08	2851.86
31.5	2782.76	2849.18	2932.63	3012.83	3040.96	2992.35	2890.91	2787.74	2757.50	2833.68
32.0	2760.95	2827.17	2911.58	2998.28	3020.29	2975.89	2872.72	2766.88	2735.11	2813.01
32.5	2738.93	2806.31	2892.82	2984.31	3004.02	2960.19	2854.92	2744.87	2710.80	2790.99
33.0	2717.69	2784.49	2875.40	2967.47	2989.29	2945.84	2835.21	2723.43	2686.30	2768.03
33.5	2694.15	2762.67	2855.88	2950.62	2974.74	2928.23	2815.11	2701.04	2661.99	2744.68
34.0	2669.65	2740.85	2837.89	2934.93	2961.53	2910.62	2795.01	2677.88	2639.98	2722.86
34.5	2645.34	2718.84	2817.98	2917.13	2941.05	2893.59	2774.34	2655.10	2618.35	2701.61
35.0	2620.46	2696.63	2798.08	2896.46	2924.02	2877.70	2754.05	2632.13	2595.96	2680.17
35.5	2597.11	2674.62	2778.94	2881.34	2909.66	2859.52	2734.72	2609.74	2572.03	2657.21
36.0	2573.56	2652.80	2759.61	2862.96	2890.91	2841.52	2713.86	2587.35	2547.15	2633.28
36.5	2551.36	2630.22	2737.79	2843.25	2876.55	2822.77	2692.81	2564.95	2522.27	2605.72
37.0	2527.63	2608.21	2715.39	2826.02	2860.28	2804.01	2673.48	2540.83	2498.34	2582.37
37.5	2503.51	2585.43	2693.76	2808.03	2843.63	2785.44	2652.80	2518.06	2474.04	2566.67
38.0	2477.48	2563.04	2674.05	2789.85	2826.79	2768.03	2631.75	2495.09	2451.26	2541.98
38.5	2452.41	2540.26	2654.91	2772.05	2809.75	2751.18	2610.31	2472.12	2425.42	2516.91
39.0	2427.53	2517.48	2632.90	2753.10	2790.99	2732.81	2588.88	2448.77	2401.88	2492.60
39.5	2402.26	2492.03	2609.93	2734.72	2773.39	2714.05	2567.25	2423.12	2378.15	2467.34
40.0	2376.42	2466.76	2586.01	2715.97	2756.54	2693.38	2544.85	2398.62	2352.31	2442.65
40.5	2351.54	2441.69	2564.38	2697.59	2739.70	2675.01	2523.23	2372.21	2326.08	2420.64
41.0	2326.08	2418.53	2543.51	2678.26	2722.47	2655.68	2501.98	2348.48	2300.44	2397.67
41.5	2301.58	2393.65	2522.65	2659.69	2703.33	2636.54	2480.93	2325.51	2275.75	2375.47
42.0	2275.36	2370.11	2502.36	2639.79	2685.34	2618.16	2458.92	2302.54	2250.86	2348.67
42.5	2248.95	2346.56	2480.35	2622.37	2666.01	2600.36	2437.29	2277.28	2224.83	2321.68
43.0	2223.69	2323.98	2459.11	2603.42	2647.06	2579.31	2414.89	2252.20	2198.61	2294.69
43.5	2198.23	2297.18	2438.24	2582.75	2627.16	2560.93	2392.50	2228.85	2173.35	2267.71
44.0	2168.94	2271.15	2417.57	2563.80	2609.36	2539.88	2371.06	2205.12	2146.74	2243.21
44.5	2144.64	2246.46	2395.37	2542.75	2591.94	2521.50	2348.48	2179.28	2119.37	2219.47
45.0	2116.50	2221.96	2373.17	2522.65	2572.80	2503.51	2325.51	2152.48	2092.38	2194.40
45.5	2090.09	2197.46	2350.58	2501.79	2553.47	2485.14	2301.20	2127.41	2065.01	2169.33
46.0	2063.29	2173.54	2328.38	2482.84	2533.94	2463.32	2278.23	2104.06	2038.41	2142.34
46.5	2037.26	2146.74	2304.84	2465.81	2514.61	2443.22	2254.88	2077.26	2012.38	2116.31
47.0	2011.04	2119.37	2283.02	2445.90	2494.52	2421.98	2232.11	2052.38	1986.54	2090.66
47.5	1984.24	2092.96	2261.97	2424.46	2475.18	2400.73	2209.52	2029.99	1960.70	2065.78
48.0	1957.26	2067.31	2240.15	2403.60	2455.66	2380.44	2185.21	2003.58	1934.29	2041.28
48.5	1929.69	2042.43	2215.84	2381.59	2435.95	2359.77	2161.48	1977.16	1909.48	2015.06
49.0	1902.69	2016.78	2192.10	2361.30	2417.00	2339.48	2138.70	1951.13	1882.69	1988.84
49.5	1877.52	1990.37	2169.33	2342.93	2397.48	2320.92	2115.35	1925.68	1854.84	1963.00
50.0	1850.55	1961.66	2146.17	2321.49	2377.38	2299.29	2092.00	1900.33	1827.45	1938.31
50.5	1822.74	1934.10	2121.67	2301.20	2359.01	2277.47	2069.03	1875.30	1800.73	1912.51
51.0	1794.82	1908.30	2098.13	2279.57	2340.82	2257.56	2046.64	1848.89	1774.16	1886.99
51.5	1767.94	1881.44	2074.78	2258.52	2321.11	2236.32	2022.33	1823.51	1747.41	1859.58
52.0	1740.11	1855.05	2051.23	2238.81	2302.16	2215.46	2000.51	1798.41	1720.30	1832.27
52.5	1713.05	1829.29	2029.03	2220.05	2281.68	2195.36	1979.27	1773.84	1695.02	1805.67
53.0	1685.62	1803.77	2006.45	2198.99	2260.82	2174.30	1955.92	1748.25	1668.59	1779.39
53.5	1659.28	1778.95	1983.48	2177.18	2239.19	2153.25	1932.57	1723.86	1642.33	1754.37
54.0	1631.90	1753.13	1960.70	2156.70	2219.47	2131.81	1910.65	1698.16	1616.56	1730.01
54.5	1605.00	1728.32	1937.54	2135.83	2199.19	2109.99	1887.13	1672.30	1589.40	1703.77

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CANDELA TABULATION - (Cont.)

55.0	1577.98	1703.19	1912.64	2114.20	2177.94	2088.17	1863.70	1645.52	1562.17	1677.64
55.5	1549.88	1676.61	1889.16	2093.72	2156.89	2066.35	1839.76	1621.04	1533.80	1650.63
56.0	1521.13	1650.77	1866.00	2073.05	2137.36	2046.26	1816.10	1593.79	1505.78	1625.48
56.5	1492.75	1624.64	1842.55	2052.00	2119.37	2025.97	1793.02	1568.31	1478.45	1599.55
57.0	1465.76	1597.92	1819.95	2031.14	2099.66	2005.11	1769.49	1545.75	1450.60	1573.52
57.5	1438.73	1571.39	1796.67	2010.85	2079.56	1983.48	1746.10	1521.09	1423.90	1547.68
58.0	1411.86	1545.98	1774.53	1989.22	2058.12	1962.62	1722.85	1496.59	1397.47	1521.86
58.5	1384.15	1520.10	1752.44	1969.12	2037.45	1940.80	1699.17	1469.91	1369.54	1496.75
59.0	1357.41	1493.84	1730.05	1948.45	2017.93	1920.12	1676.28	1443.37	1341.47	1471.48
59.5	1329.56	1468.17	1706.73	1928.55	1997.64	1898.99	1653.43	1417.97	1315.53	1445.07
60.0	1302.65	1442.73	1684.57	1907.44	1976.21	1877.84	1629.46	1392.80	1288.28	1419.52
60.5	1274.86	1416.78	1662.62	1886.53	1957.26	1856.81	1606.48	1366.08	1262.28	1392.66
61.0	1247.09	1391.17	1641.01	1866.90	1937.16	1837.46	1585.23	1342.12	1235.26	1366.65
61.5	1220.31	1365.64	1618.19	1845.71	1917.83	1816.73	1563.51	1317.73	1207.94	1340.99
62.0	1193.74	1339.07	1594.92	1824.35	1897.50	1795.98	1541.88	1291.61	1180.92	1315.88
62.5	1166.62	1312.49	1572.68	1803.72	1878.32	1775.83	1519.49	1265.67	1153.80	1289.71
63.0	1139.17	1285.77	1551.07	1783.66	1858.11	1756.80	1496.35	1240.69	1126.35	1265.75
63.5	1112.86	1259.18	1529.11	1762.14	1836.37	1736.51	1474.28	1215.66	1099.36	1239.81
64.0	1084.86	1232.67	1506.89	1741.49	1814.84	1716.82	1452.40	1190.14	1073.24	1215.01
64.5	1056.78	1209.05	1484.61	1720.26	1794.87	1695.77	1430.12	1165.38	1047.30	1189.67
65.0	1029.94	1184.71	1462.97	1698.75	1774.64	1676.01	1409.81	1142.12	1019.93	1164.73
65.5	1003.51	1160.34	1442.22	1678.96	1755.64	1656.36	1387.09	1118.06	994.36	1139.79
66.0	976.94	1135.73	1419.56	1658.79	1735.29	1636.20	1365.60	1094.25	967.91	1115.15
66.5	950.36	1112.36	1398.10	1638.06	1716.99	1615.78	1344.51	1071.30	940.75	1089.28
67.0	922.97	1086.25	1376.72	1617.12	1697.60	1595.05	1323.93	1048.64	913.49	1065.14
67.5	896.48	1061.10	1355.38	1596.41	1677.20	1574.74	1302.30	1024.07	887.22	1041.06
68.0	869.07	1037.77	1333.01	1576.08	1658.21	1554.47	1283.32	1000.93	862.35	1017.35
68.5	842.62	1014.42	1312.18	1554.63	1638.94	1534.01	1262.21	976.73	835.75	992.98
69.0	816.03	990.27	1291.43	1533.65	1620.70	1513.34	1242.82	952.96	808.01	969.63
69.5	788.89	966.80	1272.18	1514.55	1601.71	1493.65	1220.65	929.17	780.89	944.87
70.0	763.26	942.86	1250.17	1493.86	1582.13	1472.33	1200.82	906.20	755.36	920.79
70.5	737.71	918.95	1229.38	1475.02	1562.03	1450.58	1179.73	882.72	729.79	896.73
71.0	712.05	895.04	1208.14	1457.28	1542.38	1430.43	1160.32	859.19	703.84	875.16
71.5	685.77	872.48	1188.36	1437.38	1523.31	1411.44	1140.78	836.30	678.59	853.22
72.0	660.79	849.80	1166.58	1416.90	1503.52	1392.55	1121.22	814.39	653.52	831.52
72.5	634.78	827.69	1147.35	1396.40	1485.42	1373.10	1101.66	791.67	628.73	808.97
73.0	609.34	805.58	1125.55	1376.68	1465.63	1354.42	1083.34	770.44	604.50	787.09
73.5	584.48	783.84	1105.64	1358.98	1446.74	1335.80	1063.02	748.83	580.40	765.27
74.0	560.09	761.37	1084.82	1339.49	1428.36	1316.32	1041.94	727.13	556.04	743.30
74.5	535.71	740.07	1065.26	1319.38	1409.39	1297.54	1021.54	706.19	531.00	721.48
75.0	510.64	719.20	1044.60	1300.16	1391.06	1279.38	1001.73	685.54	506.77	699.39
75.5	486.14	697.56	1025.29	1281.84	1371.42	1259.07	981.17	664.23	482.48	678.40
76.0	461.48	676.50	1006.17	1262.99	1352.80	1239.66	961.96	643.14	456.45	657.04
76.5	437.83	655.32	985.60	1244.60	1334.94	1220.71	943.18	622.15	432.83	635.87
77.0	414.78	634.85	966.32	1225.36	1317.21	1202.41	924.46	602.01	410.38	614.68
77.5	391.37	614.55	947.35	1208.25	1298.71	1182.89	905.42	581.80	387.53	594.93
78.0	368.69	594.72	929.48	1189.51	1279.93	1164.99	887.85	562.87	363.85	575.85
78.5	345.92	574.35	911.89	1172.02	1263.41	1147.10	870.10	544.15	342.26	556.90
79.0	323.85	554.73	892.65	1153.38	1245.63	1128.95	852.15	525.49	320.52	537.91
79.5	302.07	534.94	873.01	1134.83	1227.89	1111.04	834.81	507.84	298.81	518.71
80.0	280.25	516.03	855.02	1117.30	1210.41	1094.12	817.34	489.45	278.33	499.80
80.5	258.41	498.04	835.69	1098.69	1193.99	1074.31	800.19	470.82	257.26	481.66
81.0	237.99	479.15	816.11	1079.46	1177.47	1055.59	781.87	452.39	235.36	463.78
81.5	216.99	460.70	797.32	1059.72	1160.04	1037.20	762.38	433.96	215.92	446.50
82.0	197.66	442.92	778.29	1043.80	1141.64	1019.74	743.74	416.96	196.76	427.66
82.5	178.98	425.10	760.64	1025.18	1124.90	1001.94	724.74	399.36	177.65	409.75

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83.0	160.98	408.31	742.50	1007.03	1109.22	984.50	706.51	381.75	159.03	392.18
83.5	142.59	391.15	723.93	988.64	1091.57	966.11	687.74	364.29	141.47	376.06
84.0	125.58	372.60	705.37	968.98	1073.24	946.47	668.31	347.05	123.99	359.20
84.5	109.65	355.77	686.72	948.08	1053.98	924.54	649.09	329.63	106.54	341.63
85.0	93.88	338.76	666.80	926.03	1034.12	901.88	627.62	312.75	92.42	324.79
85.5	79.02	321.55	644.92	901.69	1007.76	879.04	605.84	296.04	77.74	307.48
86.0	64.47	303.54	622.24	868.21	965.10	845.22	582.76	278.56	63.39	289.84
86.5	50.56	285.72	594.83	821.41	911.39	796.13	554.98	258.98	50.19	270.56
87.0	39.04	266.39	559.37	759.61	838.73	734.80	519.34	238.27	38.25	248.61
87.5	29.19	243.86	508.42	678.99	739.40	656.14	470.88	215.92	27.66	225.37
88.0	20.84	217.18	439.53	569.55	613.74	547.65	408.77	188.31	19.56	194.35
88.5	13.22	181.36	351.91	439.40	472.41	422.84	325.65	155.83	12.84	150.29
89.0	7.17	132.13	244.57	299.89	316.77	284.34	221.26	110.00	6.88	88.25
89.5	3.86	69.02	132.54	159.75	166.76	150.72	112.42	55.65	2.60	25.22
90.0	3.53	18.65	40.04	49.30	49.55	42.77	31.14	12.81	1.45	10.35
90.5	3.19	10.27	18.24	23.79	25.82	24.61	19.69	11.99	1.46	24.60
91.0	2.85	28.00	37.40	43.88	48.32	45.88	38.81	29.50	1.75	58.64
91.5	2.84	64.62	71.12	76.47	80.87	76.90	70.84	62.97	1.84	101.02
92.0	2.82	107.13	126.35	127.08	129.25	127.83	124.24	102.48	1.92	128.63
92.5	2.80	130.81	205.51	199.80	202.29	201.12	199.71	122.48	2.01	135.77
93.0	2.79	138.02	302.16	297.91	299.75	297.86	292.84	125.87	2.10	141.10
93.5	2.77	139.00	388.81	413.71	419.72	411.82	368.45	126.01	2.17	143.53
94.0	2.75	145.61	413.79	535.59	547.23	535.73	389.52	128.32	2.25	143.56
94.5	2.74	144.91	423.91	622.05	665.21	613.21	398.67	128.84	2.33	141.20
95.0	2.72	141.70	421.10	634.28	721.12	622.55	393.65	127.19	2.40	138.08
95.5	2.71	137.87	413.52	638.91	716.79	623.37	385.80	125.16	2.48	134.71
96.0	2.69	133.59	404.91	635.72	710.80	619.50	377.42	121.56	2.76	130.65
96.5	2.67	128.40	398.57	627.70	701.79	608.77	370.72	118.18	2.77	126.29
97.0	2.66	124.01	396.50	618.22	689.60	597.21	368.29	114.80	2.91	121.94
97.5	2.64	119.40	390.46	606.03	677.33	585.66	368.16	111.68	3.06	117.46
98.0	2.62	115.09	382.09	595.90	664.41	575.69	361.10	107.27	3.34	112.91
98.5	2.61	111.23	373.61	588.61	652.46	568.69	352.44	103.50	3.34	108.33
99.0	2.61	107.27	365.65	581.36	640.65	562.41	344.67	99.85	3.63	103.32
99.5	2.90	103.71	357.08	574.03	633.30	560.23	337.19	96.79	3.64	98.59
100.0	3.18	100.23	349.50	564.59	627.28	553.62	329.84	92.96	3.93	93.61
100.5	3.19	96.29	341.06	555.02	620.83	544.67	322.64	89.78	4.21	88.56
101.0	3.47	93.19	334.11	544.97	613.04	535.58	315.24	86.88	4.36	83.20
101.5	3.63	89.77	326.64	534.27	602.09	525.11	308.19	83.95	4.65	78.12
102.0	3.92	86.81	319.26	524.76	590.89	514.94	301.36	81.33	4.80	73.94
102.5	4.20	83.71	311.94	514.94	581.51	505.74	294.35	78.71	5.09	70.12
103.0	4.49	81.07	304.88	504.76	570.41	496.24	288.50	76.53	5.38	68.72
103.5	4.78	78.53	297.57	493.72	559.12	485.60	282.03	74.19	5.52	67.97
104.0	5.08	75.71	290.58	484.36	548.99	476.30	275.75	71.86	5.81	67.38
104.5	5.23	73.19	283.46	475.15	538.62	467.53	269.28	70.24	5.96	66.79
105.0	5.63	70.96	276.59	466.61	529.32	457.77	263.02	68.04	6.25	66.37
105.5	5.94	68.86	269.74	456.24	519.57	449.12	257.38	65.99	6.54	65.78
106.0	6.24	66.79	263.84	446.73	508.99	440.03	251.86	63.96	6.71	64.60
106.5	6.39	65.01	257.68	437.31	499.90	431.99	245.70	62.34	7.11	63.10
107.0	6.53	63.36	251.29	428.79	490.33	422.48	239.81	60.72	7.11	61.48
107.5	6.39	61.67	245.80	420.05	481.12	414.23	234.41	59.06	6.97	59.94
108.0	6.39	60.04	240.02	411.24	471.32	406.11	229.14	57.75	7.11	58.61
108.5	6.81	58.72	234.54	401.83	462.25	398.34	223.65	56.15	7.12	57.28
109.0	7.25	57.07	228.88	394.21	453.62	390.19	218.48	54.68	7.42	55.78
109.5	7.81	55.74	223.10	386.63	444.22	382.82	213.37	53.24	7.86	54.52
110.0	7.98	54.39	217.87	379.16	436.41	375.57	208.55	52.48	8.28	53.17
110.5	8.13	53.00	212.72	371.93	427.66	368.37	203.61	51.25	8.28	51.98

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CANDELA TABULATION - (Cont.)

111.0	7.99	51.67	207.34	364.64	418.94	360.96	199.34	49.94	8.57	50.63
111.5	7.99	50.93	202.96	357.44	410.90	353.71	194.18	49.07	8.86	49.39
112.0	8.26	49.75	198.04	350.40	403.62	346.68	189.65	48.05	8.85	48.19
112.5	8.41	48.84	193.33	343.16	394.90	339.22	185.46	47.14	8.71	47.72
113.0	8.85	48.01	188.59	336.35	386.99	332.48	181.36	45.77	8.71	47.26
113.5	9.13	46.52	184.14	329.17	379.55	325.80	176.95	45.02	8.86	46.42
114.0	9.56	45.64	179.98	322.78	372.45	319.29	173.01	44.29	9.16	45.54
114.5	9.86	44.90	175.72	316.50	364.98	312.31	169.10	43.43	9.59	44.65
115.0	10.01	44.02	171.56	310.43	357.73	305.86	165.03	42.71	9.89	43.76
115.5	10.30	43.31	167.36	303.64	350.34	299.71	161.02	41.87	10.17	43.01
116.0	10.58	42.71	163.57	297.63	343.14	293.47	157.45	40.99	10.60	42.26
116.5	10.74	41.97	159.74	291.50	335.77	286.81	153.96	40.40	10.62	41.56
117.0	10.60	41.38	156.32	285.55	329.53	280.88	150.60	39.52	11.05	40.96
117.5	10.60	40.96	152.78	279.87	322.57	275.02	147.26	38.65	11.33	40.23
118.0	10.87	40.51	149.38	273.70	316.00	269.30	143.92	37.82	11.47	39.92
118.5	10.75	40.07	145.88	268.59	309.28	263.19	140.60	36.96	11.61	39.22
119.0	11.16	39.48	140.98	261.87	302.78	258.01	137.20	36.37	11.63	38.76
119.5	11.18	39.03	138.13	256.04	296.19	252.48	132.84	35.93	11.91	38.32
120.0	11.46	38.58	134.97	251.10	289.66	247.14	129.90	35.35	11.99	37.73
120.5	11.76	38.02	131.63	245.30	283.85	241.60	126.88	34.93	12.08	37.28
121.0	12.03	37.57	128.91	239.90	277.61	236.32	124.18	34.49	12.17	36.84
121.5	12.33	37.13	125.99	234.94	271.42	231.27	121.19	34.06	12.25	36.42
122.0	12.62	36.69	124.18	229.62	265.40	226.14	118.74	33.91	12.34	35.97
122.5	12.92	36.39	121.38	224.51	259.63	221.24	117.37	33.48	12.34	35.67
123.0	13.33	36.11	118.68	218.71	253.97	216.19	114.87	33.34	12.50	35.39
123.5	13.36	35.81	116.15	213.99	248.53	211.46	112.40	32.91	12.79	35.09
124.0	13.78	35.37	113.61	209.53	242.58	206.33	109.77	32.47	13.09	34.94
124.5	13.93	35.08	111.11	204.76	237.30	202.02	107.42	32.18	13.50	34.79
125.0	14.07	34.93	108.88	200.32	232.36	197.54	104.96	31.89	13.65	34.49
125.5	14.22	34.79	106.64	193.07	226.64	191.71	103.03	31.61	13.94	34.21
126.0	14.37	34.35	104.70	187.97	221.58	185.21	100.83	31.54	13.94	34.20
126.5	14.45	34.19	102.62	183.80	217.12	180.79	98.49	31.47	14.08	33.77
127.0	14.54	33.75	100.39	179.17	212.03	176.78	96.29	31.40	14.23	33.45
127.5	14.63	33.47	98.13	174.83	205.97	172.61	94.24	31.32	14.38	33.12
128.0	14.72	33.32	96.20	170.94	198.79	168.81	92.34	31.27	14.53	32.79
128.5	14.81	33.02	94.43	167.11	193.95	165.24	90.13	31.22	14.67	32.47
129.0	14.95	32.72	92.51	165.32	189.64	161.45	88.10	31.18	14.83	32.14
129.5	15.37	32.12	90.84	162.15	185.20	160.19	86.32	31.13	15.10	30.50
130.0	15.39	31.28	88.58	158.71	180.74	156.79	83.98	31.08	15.10	26.25
130.5	15.67	29.22	85.64	154.93	176.44	153.18	81.63	31.03	15.24	20.80
131.0	15.54	24.56	83.84	151.21	172.74	149.76	78.58	30.15	15.10	16.01
131.5	15.81	17.89	82.20	148.48	171.50	146.35	76.82	28.65	15.24	15.45
132.0	15.96	12.81	80.73	144.69	167.68	142.99	75.22	25.03	15.26	14.89
132.5	16.11	9.98	79.10	141.69	163.97	139.89	73.77	17.90	15.69	14.33
133.0	16.40	9.98	77.70	138.61	160.34	136.96	72.53	11.30	15.82	13.77
133.5	16.55	10.01	76.20	135.75	156.46	133.69	71.07	9.53	15.83	13.45
134.0	16.70	10.04	75.03	132.52	152.66	130.78	70.05	9.53	16.12	13.14
134.5	17.11	10.07	74.29	129.57	149.27	127.54	68.62	9.53	16.26	12.82
135.0	17.13	10.10	73.68	127.05	145.87	124.61	68.03	9.53	16.27	12.50
135.5	17.56	10.13	72.56	124.07	142.51	121.69	67.34	9.53	16.55	12.19
136.0	17.57	10.13	71.35	121.51	138.93	118.98	66.16	9.53	16.56	12.18
136.5	17.84	10.13	70.17	118.83	135.79	116.16	64.98	9.53	16.70	12.20
137.0	18.00	10.29	69.28	116.33	132.28	113.55	63.97	9.68	16.85	15.01
137.5	18.14	10.73	68.26	113.77	129.22	111.03	62.82	10.13	16.99	18.14
138.0	18.28	11.29	67.14	109.42	126.30	106.47	61.85	10.81	17.14	20.99
138.5	18.71	12.79	66.08	106.40	123.45	103.11	60.67	12.00	17.28	23.10

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139.0	18.73	15.68	65.18	104.15	120.46	100.88	59.64	15.45	17.40	23.33
139.5	19.02	19.22	64.30	101.90	117.90	98.66	58.61	20.67	17.52	23.55
140.0	19.02	22.12	63.46	99.54	114.46	96.17	57.52	24.70	17.63	23.77
140.5	19.16	24.65	62.57	97.61	109.48	93.96	56.35	25.11	17.75	23.92
141.0	19.16	26.57	61.98	95.68	107.08	91.75	55.19	25.26	17.87	24.07
141.5	19.03	27.74	61.37	93.73	104.39	89.52	54.16	25.12	18.14	24.22
142.0	19.09	27.75	60.48	91.98	102.00	87.93	53.13	25.26	18.00	24.37
142.5	19.15	27.89	59.75	91.29	99.37	87.52	52.17	25.27	18.29	24.52
143.0	19.21	27.98	59.19	90.38	96.98	85.47	51.29	25.55	18.29	25.36
143.5	19.27	28.07	58.44	88.60	94.90	83.55	50.41	25.41	18.32	26.42
144.0	19.33	28.16	58.00	86.82	92.72	81.63	49.69	25.54	18.35	26.40
144.5	19.39	28.24	57.55	85.35	91.98	79.74	49.10	25.11	18.38	26.39
145.0	19.45	28.33	56.82	83.72	90.93	77.97	48.23	24.82	18.41	26.37
145.5	19.31	28.48	56.40	82.17	88.96	76.01	47.40	24.54	18.44	26.36
146.0	19.38	29.38	55.80	80.67	86.57	74.06	45.90	24.25	18.45	26.35
146.5	19.46	30.38	55.23	79.30	85.06	72.29	43.68	24.24	18.58	26.34
147.0	19.53	30.38	54.93	77.77	83.26	70.62	37.35	24.10	18.45	26.32
147.5	19.60	30.38	54.35	76.16	81.23	68.88	23.48	23.68	18.73	26.31
148.0	19.62	30.38	53.61	74.84	79.46	67.12	11.39	23.67	18.73	26.30
148.5	19.65	30.38	52.57	73.48	77.52	65.19	7.22	23.52	18.73	26.28
149.0	19.67	30.38	51.50	72.13	76.01	63.10	7.23	23.09	18.73	26.27
149.5	19.70	30.38	49.61	70.94	74.19	61.20	7.36	22.95	18.73	26.26
150.0	19.72	30.38	44.43	69.69	72.57	59.39	7.23	22.81	18.73	26.25
150.5	19.73	30.38	36.16	68.49	70.80	57.62	7.37	22.37	18.73	26.23
151.0	19.74	30.38	25.94	67.44	69.17	56.29	7.97	22.08	18.73	26.22
151.5	19.75	30.38	18.47	66.11	67.69	55.25	9.29	21.93	18.73	26.21
152.0	19.76	30.38	11.30	64.91	66.21	54.04	14.69	21.65	18.73	26.20
152.5	19.77	30.38	7.19	63.59	64.89	51.90	22.86	21.49	18.72	26.18
153.0	19.78	30.53	7.05	62.47	63.50	47.75	29.17	21.08	18.72	26.17
153.5	19.78	30.53	7.05	61.27	62.00	36.45	28.90	20.64	18.72	26.15
154.0	19.79	30.53	6.76	60.18	60.36	19.43	28.58	20.50	18.72	26.14
154.5	19.80	30.53	6.74	58.38	58.86	8.79	28.26	20.64	18.72	26.13
155.0	19.81	30.53	6.32	56.32	56.91	8.35	27.94	20.63	18.72	25.98
155.5	19.82	30.53	6.46	51.18	54.15	7.91	27.62	20.35	18.72	25.84
156.0	19.83	30.53	6.91	39.90	46.35	7.47	27.30	20.49	18.72	25.84
156.5	19.84	30.53	7.36	25.52	30.51	7.04	27.00	20.19	18.72	25.69
157.0	19.85	30.53	8.07	12.49	14.17	6.60	26.26	19.30	18.72	25.40
157.5	19.85	30.53	9.53	6.79	6.23	7.57	25.58	18.48	18.72	25.54
158.0	19.86	30.53	14.37	6.47	6.00	12.95	24.71	18.48	18.72	25.40
158.5	19.87	30.53	21.66	6.16	5.99	22.54	24.69	18.43	18.58	25.39
159.0	19.88	30.53	28.22	5.59	5.86	29.34	24.67	18.38	18.73	25.37
159.5	19.89	30.53	33.38	5.73	6.14	29.48	24.65	18.33	18.88	25.35
160.0	20.03	30.53	34.20	5.91	6.72	29.62	24.63	18.28	19.02	25.33
160.5	20.31	30.53	34.36	6.61	7.89	29.76	24.60	18.29	19.31	25.31
161.0	20.60	30.23	34.16	10.00	14.91	29.89	24.51	18.30	19.60	25.29
161.5	20.89	29.93	33.96	18.56	25.41	30.03	24.41	18.30	19.89	25.27
162.0	21.32	29.66	33.75	26.93	32.62	29.44	24.32	18.31	20.04	25.25
162.5	21.48	29.62	33.55	32.58	32.74	28.89	24.23	18.32	20.33	24.95
163.0	21.76	29.59	33.34	32.50	32.86	28.30	24.13	18.32	20.47	24.37
163.5	22.06	29.56	33.05	32.41	32.97	28.15	24.27	18.33	20.62	24.37
164.0	22.21	29.53	32.30	32.32	32.70	27.99	24.26	18.33	20.78	24.22
164.5	22.64	29.50	31.88	32.24	32.42	27.53	23.99	18.51	21.21	23.78
165.0	22.79	29.50	31.29	32.15	32.14	26.70	23.84	19.19	21.63	23.66
165.5	22.94	29.21	30.55	32.06	31.87	26.84	23.84	19.49	21.78	23.54
166.0	22.94	29.20	30.25	31.98	31.59	26.81	23.98	19.78	22.07	23.43
166.5	23.08	28.77	29.95	31.89	30.70	26.79	23.81	20.22	22.66	23.39

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167.0	23.51	28.63	29.51	31.59	29.67	26.76	23.63	20.65	22.95	23.35
167.5	23.52	28.35	29.37	31.31	28.83	26.74	23.45	20.96	23.52	23.31
168.0	23.93	28.08	29.37	31.01	28.38	26.71	23.28	21.51	23.82	23.27
168.5	24.09	27.80	29.22	30.57	28.22	26.68	23.10	21.94	24.26	23.23
169.0	24.24	27.53	28.92	30.42	27.77	26.66	22.39	22.39	24.69	23.20
169.5	24.38	27.25	28.64	30.14	27.08	26.63	22.25	22.94	24.97	22.90
170.0	24.68	26.97	28.21	29.99	26.63	26.60	22.25	23.52	25.26	22.75
170.5	24.82	26.70	27.91	29.40	25.90	26.57	22.25	23.81	25.26	22.61
171.0	25.11	26.42	27.90	28.95	25.30	26.55	22.25	24.10	25.41	22.46
171.5	25.26	25.24	27.76	28.21	24.41	26.09	22.25	24.41	25.55	22.46
172.0	25.54	25.10	27.90	27.93	23.71	25.53	22.25	24.82	25.55	22.31
172.5	25.55	24.22	27.90	27.78	22.97	24.22	22.25	24.97	25.70	22.17
173.0	25.69	23.92	27.32	27.78	22.67	24.21	22.25	25.26	25.70	22.31
173.5	25.70	23.83	25.40	27.76	22.08	23.19	22.25	25.55	25.99	22.60
174.0	26.12	23.73	24.36	26.55	21.51	22.46	22.25	25.84	26.13	23.62
174.5	25.99	23.63	23.66	24.95	21.64	22.16	22.25	25.99	26.17	24.66
175.0	26.01	23.53	23.86	24.24	21.64	22.02	22.25	26.01	26.20	24.81
175.5	26.02	23.44	24.06	23.37	21.64	22.02	22.25	26.02	26.23	25.41
176.0	26.04	23.34	24.26	22.93	21.65	21.88	22.26	26.04	26.26	26.72
176.5	26.06	23.34	24.46	22.62	21.65	22.20	22.57	26.06	26.29	27.45
177.0	26.08	23.55	24.66	22.18	21.65	22.53	23.45	26.07	26.33	27.90
177.5	26.10	24.95	24.86	21.75	21.65	22.85	24.42	26.09	26.36	28.33
178.0	26.11	25.54	25.07	21.31	21.50	23.17	25.00	26.11	26.39	28.33
178.5	26.13	25.72	25.27	20.25	22.25	23.50	25.15	26.13	26.42	28.33
179.0	26.13	28.04	25.59	18.52	24.15	24.51	25.45	26.27	26.42	28.48
179.5	26.13	28.18	27.32	18.51	24.97	25.31	26.21	26.26	26.28	28.77
180.0	16.45	16.45	16.45	16.45	16.45	16.45	16.45	16.45	16.45	16.45

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	3536.50	3536.50	3536.50	3536.50	3536.50	3536.50	3536.50
0.5	3535.16	3539.18	3538.60	3536.88	3538.41	3534.01	3536.31
1.0	3537.26	3542.43	3536.88	3537.45	3538.60	3531.71	3538.79
1.5	3538.99	3542.43	3536.69	3537.45	3538.60	3532.29	3539.37
2.0	3537.07	3541.86	3535.73	3536.31	3538.22	3532.48	3539.18
2.5	3531.52	3538.60	3535.73	3535.73	3537.26	3531.90	3539.18
3.0	3532.10	3538.99	3536.69	3535.16	3534.01	3527.69	3536.11
3.5	3532.86	3536.69	3535.92	3533.44	3532.67	3525.01	3532.67
4.0	3528.08	3534.78	3533.63	3529.80	3530.56	3522.53	3527.50
4.5	3521.95	3528.27	3532.29	3526.35	3524.44	3520.42	3522.91
5.0	3524.82	3523.29	3528.65	3524.63	3523.10	3516.40	3519.85
5.5	3521.76	3523.10	3527.12	3517.17	3522.33	3511.04	3517.74
6.0	3516.40	3520.04	3527.12	3516.21	3521.57	3505.11	3513.15
6.5	3510.47	3519.46	3524.06	3516.02	3518.12	3499.17	3508.17
7.0	3504.92	3516.21	3519.08	3516.02	3511.81	3493.05	3505.30
7.5	3502.43	3508.36	3515.25	3512.00	3507.41	3489.03	3500.90
8.0	3499.37	3505.11	3512.96	3502.62	3502.62	3483.86	3494.77
8.5	3490.18	3500.51	3506.26	3494.58	3497.64	3478.31	3488.07
9.0	3480.99	3494.96	3503.39	3491.71	3492.09	3473.34	3479.46
9.5	3476.59	3488.65	3498.03	3487.88	3486.93	3467.98	3470.46
10.0	3470.85	3484.05	3490.75	3482.71	3480.23	3462.04	3461.66
10.5	3464.34	3483.10	3488.46	3481.18	3471.61	3453.62	3454.39
11.0	3458.22	3479.08	3482.91	3476.78	3464.15	3442.90	3446.73
11.5	3447.31	3470.66	3478.12	3471.42	3455.15	3434.67	3439.65
12.0	3442.14	3462.23	3472.00	3462.43	3446.92	3427.02	3431.23

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12.5	3434.86	3456.30	3464.53	3455.73	3439.65	3418.98	3420.70
13.0	3426.44	3449.79	3457.64	3448.45	3431.42	3411.32	3409.60
13.5	3417.83	3445.97	3450.75	3440.03	3422.61	3401.75	3396.58
14.0	3409.41	3437.93	3443.86	3434.29	3414.58	3387.78	3386.25
14.5	3400.41	3429.31	3436.59	3427.40	3404.62	3375.53	3374.00
15.0	3390.84	3422.42	3431.42	3419.55	3396.01	3364.43	3361.94
15.5	3381.08	3412.85	3424.34	3411.13	3386.44	3351.80	3351.22
16.0	3373.81	3404.05	3416.87	3402.52	3377.64	3338.78	3338.59
16.5	3366.15	3393.33	3410.37	3395.82	3367.49	3327.68	3326.15
17.0	3353.71	3383.19	3402.71	3384.72	3358.69	3316.77	3312.75
17.5	3339.55	3372.47	3392.56	3374.96	3345.10	3303.95	3298.20
18.0	3326.34	3364.62	3384.14	3364.43	3332.85	3292.08	3283.08
18.5	3315.43	3356.96	3376.68	3353.90	3319.26	3278.11	3268.92
19.0	3307.39	3346.82	3364.24	3347.01	3305.86	3263.37	3256.48
19.5	3293.61	3338.21	3355.24	3338.78	3294.57	3249.59	3243.27
20.0	3280.98	3328.83	3347.78	3327.30	3285.19	3236.38	3228.54
20.5	3268.92	3313.71	3335.15	3313.90	3274.85	3223.75	3213.99
21.0	3258.20	3304.71	3324.62	3302.03	3260.50	3209.40	3199.44
21.5	3245.95	3295.14	3315.05	3293.04	3246.72	3193.13	3182.22
22.0	3232.17	3284.04	3304.90	3281.17	3234.09	3175.33	3162.69
22.5	3218.58	3271.03	3293.80	3270.26	3220.50	3156.95	3145.66
23.0	3203.46	3258.78	3282.13	3257.82	3206.52	3141.07	3126.71
23.5	3188.34	3248.44	3269.49	3244.80	3192.93	3121.73	3107.76
24.0	3174.18	3236.96	3257.25	3231.60	3177.81	3103.93	3089.77
24.5	3159.25	3224.13	3247.68	3219.35	3163.08	3087.28	3071.01
25.0	3144.70	3210.54	3234.47	3207.67	3145.28	3069.10	3051.68
25.5	3128.24	3196.19	3221.07	3193.32	3128.43	3052.26	3033.31
26.0	3113.12	3181.64	3209.20	3181.83	3114.84	3035.80	3013.40
26.5	3098.19	3168.24	3198.68	3166.71	3098.19	3017.04	2992.92
27.0	3082.88	3157.91	3187.38	3149.87	3082.31	2996.75	2973.21
27.5	3066.42	3143.36	3172.84	3134.75	3063.36	2979.72	2953.68
28.0	3045.37	3128.82	3158.67	3124.03	3044.79	2960.58	2933.59
28.5	3029.10	3114.27	3144.51	3108.91	3027.18	2939.52	2911.19
29.0	3014.74	3099.91	3130.92	3097.23	3009.96	2919.62	2889.95
29.5	2996.56	3082.88	3118.67	3082.11	2994.26	2899.33	2869.28
30.0	2981.05	3067.38	3105.85	3064.51	2979.14	2878.66	2847.84
30.5	2962.87	3051.87	3090.92	3049.58	2960.58	2857.22	2826.98
31.0	2948.13	3036.56	3075.61	3034.26	2939.71	2837.51	2805.16
31.5	2930.14	3021.06	3061.06	3018.76	2918.66	2816.26	2782.76
32.0	2910.05	3004.41	3046.51	3002.30	2900.67	2795.21	2760.95
32.5	2889.37	2989.67	3030.24	2983.16	2882.48	2773.77	2738.93
33.0	2869.85	2972.06	3012.06	2965.74	2862.96	2751.57	2717.69
33.5	2849.95	2954.83	2994.45	2950.62	2842.29	2729.17	2694.15
34.0	2829.47	2938.76	2980.67	2934.93	2823.53	2706.20	2669.65
34.5	2810.71	2921.34	2965.36	2917.13	2801.33	2683.05	2645.34
35.0	2791.38	2903.92	2950.62	2902.20	2781.62	2659.89	2620.46
35.5	2770.90	2885.16	2936.08	2887.65	2760.95	2637.30	2597.11
36.0	2750.42	2866.98	2921.72	2869.47	2742.38	2614.72	2573.56
36.5	2732.24	2848.99	2905.64	2852.63	2721.13	2595.38	2551.36
37.0	2710.80	2833.10	2885.93	2833.87	2700.08	2575.10	2527.63
37.5	2689.55	2814.73	2867.75	2814.92	2679.79	2547.92	2503.51
38.0	2667.73	2795.21	2852.05	2794.63	2659.12	2523.61	2477.48
38.5	2648.78	2777.02	2834.25	2776.64	2637.30	2500.83	2452.41
39.0	2627.54	2757.88	2814.73	2758.27	2616.25	2477.86	2427.53
39.5	2606.68	2740.08	2796.74	2742.00	2598.26	2456.62	2402.26
40.0	2587.73	2722.47	2782.57	2724.20	2577.01	2432.89	2376.42

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40.5	2565.14	2704.48	2764.39	2703.91	2552.32	2403.79	2351.54
41.0	2543.90	2684.39	2746.78	2684.58	2529.93	2381.59	2326.08
41.5	2519.21	2667.54	2725.54	2666.20	2509.06	2358.43	2301.58
42.0	2497.20	2648.21	2707.93	2646.68	2486.29	2333.55	2275.36
42.5	2479.01	2630.22	2691.28	2627.35	2463.51	2307.71	2248.95
43.0	2456.81	2610.31	2672.90	2607.44	2440.92	2283.78	2223.69
43.5	2433.08	2588.88	2652.61	2585.81	2419.49	2257.37	2198.23
44.0	2410.11	2571.08	2631.75	2564.95	2397.67	2230.58	2168.94
44.5	2389.82	2551.55	2612.99	2545.05	2373.17	2207.22	2144.64
45.0	2368.96	2529.54	2595.00	2524.37	2349.63	2180.62	2116.50
45.5	2346.37	2509.83	2574.90	2505.23	2328.00	2158.61	2090.09
46.0	2323.02	2490.50	2555.76	2484.37	2304.07	2131.81	2063.29
46.5	2298.33	2470.59	2537.96	2464.66	2281.11	2105.02	2037.26
47.0	2272.68	2449.35	2517.68	2444.94	2255.65	2079.94	2011.04
47.5	2247.61	2428.87	2498.92	2423.32	2232.68	2055.25	1984.24
48.0	2224.45	2407.62	2479.01	2402.45	2211.63	2029.80	1957.26
48.5	2202.44	2387.52	2459.11	2382.93	2190.19	2005.11	1929.69
49.0	2180.62	2368.77	2438.44	2361.30	2165.31	1976.59	1902.69
49.5	2158.04	2346.76	2416.81	2341.01	2142.91	1953.05	1877.52
50.0	2135.07	2325.89	2398.24	2321.68	2118.03	1925.87	1850.55
50.5	2112.10	2305.22	2378.72	2300.25	2094.11	1901.64	1822.74
51.0	2088.75	2284.17	2358.05	2278.62	2069.99	1876.89	1794.82
51.5	2062.53	2262.92	2337.19	2256.41	2044.73	1850.34	1767.94
52.0	2039.75	2242.06	2316.90	2234.79	2022.52	1823.91	1740.11
52.5	2017.16	2220.43	2296.80	2213.92	1999.56	1797.07	1713.05
53.0	1993.24	2198.80	2275.36	2192.30	1975.25	1770.64	1685.62
53.5	1969.12	2178.71	2254.88	2171.05	1951.32	1745.61	1659.28
54.0	1945.77	2157.84	2234.02	2150.00	1927.59	1719.38	1631.90
54.5	1922.23	2135.83	2214.12	2128.18	1902.65	1695.69	1605.00
55.0	1898.96	2113.82	2193.64	2105.97	1878.99	1668.55	1577.98
55.5	1875.03	2091.04	2170.86	2084.15	1857.40	1641.45	1549.88
56.0	1852.01	2071.52	2150.57	2062.33	1834.66	1615.28	1521.13
56.5	1828.92	2050.28	2130.86	2039.94	1811.91	1589.46	1492.75
57.0	1807.20	2027.88	2111.14	2017.55	1787.94	1564.56	1465.76
57.5	1782.95	2005.87	2090.66	1995.54	1762.72	1539.18	1438.73
58.0	1759.60	1985.78	2069.23	1974.87	1738.87	1512.35	1411.86
58.5	1735.54	1964.53	2047.60	1952.85	1714.31	1487.08	1384.15
59.0	1714.08	1943.09	2028.27	1931.23	1691.73	1461.24	1357.41
59.5	1691.02	1921.66	2007.59	1909.73	1667.76	1435.10	1329.56
60.0	1668.57	1898.40	1985.58	1887.61	1642.79	1409.83	1302.65
60.5	1645.64	1877.98	1964.53	1865.81	1619.51	1384.13	1274.86
61.0	1624.09	1856.81	1943.48	1843.91	1596.31	1358.29	1247.09
61.5	1600.72	1834.95	1923.76	1822.43	1574.00	1330.90	1220.31
62.0	1577.25	1815.28	1902.34	1800.60	1550.17	1307.20	1193.74
62.5	1553.31	1793.59	1881.02	1778.91	1526.07	1281.19	1166.62
63.0	1530.55	1771.85	1862.53	1758.35	1502.24	1255.35	1139.17
63.5	1508.83	1750.54	1841.59	1737.40	1481.24	1228.81	1112.86
64.0	1486.87	1728.48	1819.58	1715.04	1458.97	1204.40	1084.86
64.5	1464.44	1705.76	1797.76	1693.55	1436.36	1178.32	1056.78
65.0	1441.07	1683.75	1778.39	1674.08	1413.74	1154.64	1029.94
65.5	1419.33	1662.60	1757.72	1653.75	1391.78	1130.43	1003.51
66.0	1397.68	1642.40	1737.95	1632.13	1368.17	1105.35	976.94
66.5	1375.57	1621.96	1716.55	1613.00	1346.29	1080.40	950.36
67.0	1353.62	1601.62	1695.90	1592.70	1324.39	1055.49	922.97
67.5	1332.05	1580.52	1674.44	1572.31	1302.86	1029.98	896.48
68.0	1310.25	1560.33	1654.48	1552.43	1281.27	1006.15	869.07

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CANDELA TABULATION - (Cont.)

68.5	1289.44	1539.49	1634.19	1533.21	1260.04	982.05	842.62
69.0	1267.81	1519.05	1615.89	1512.79	1238.80	958.80	816.03
69.5	1245.86	1497.65	1594.61	1494.03	1216.88	935.31	788.89
70.0	1224.40	1477.03	1574.63	1471.62	1195.52	910.95	763.26
70.5	1203.33	1456.78	1555.79	1453.03	1174.87	886.85	737.71
71.0	1182.41	1437.51	1535.51	1432.76	1154.75	863.35	712.05
71.5	1161.20	1418.33	1517.15	1411.56	1134.03	839.58	685.77
72.0	1140.80	1397.99	1495.71	1390.16	1113.39	816.21	660.79
72.5	1118.94	1378.88	1476.44	1370.12	1093.97	793.89	634.78
73.0	1099.06	1359.40	1458.43	1351.42	1073.95	771.00	609.34
73.5	1079.21	1338.63	1439.52	1331.45	1053.54	747.93	584.48
74.0	1059.38	1318.25	1420.11	1312.03	1032.76	725.14	560.09
74.5	1038.48	1299.80	1401.22	1291.87	1013.44	703.38	535.71
75.0	1018.75	1281.10	1382.18	1272.45	993.90	681.79	510.64
75.5	1000.41	1262.55	1363.63	1252.94	973.90	659.43	486.14
76.0	980.56	1241.61	1344.14	1234.17	954.34	638.26	461.48
76.5	960.73	1223.01	1325.96	1216.83	935.12	616.33	437.83
77.0	941.08	1203.03	1306.88	1195.45	915.85	595.04	414.78
77.5	922.41	1184.17	1288.26	1176.29	894.34	575.48	391.37
78.0	903.94	1166.30	1270.03	1158.81	876.48	555.75	368.69
78.5	885.86	1148.36	1252.75	1140.59	859.77	535.44	345.92
79.0	867.46	1129.51	1235.10	1120.74	841.85	516.76	323.85
79.5	849.43	1111.17	1216.92	1102.37	824.69	497.98	302.07
80.0	829.93	1092.40	1199.22	1083.15	806.67	478.37	280.25
80.5	810.98	1074.27	1181.59	1064.15	789.08	460.53	258.41
81.0	793.35	1055.46	1164.48	1045.24	770.23	442.38	237.99
81.5	775.57	1037.60	1147.04	1026.88	752.95	424.81	216.99
82.0	756.55	1019.30	1130.20	1009.27	735.51	407.24	197.66
82.5	737.67	1002.04	1113.68	990.11	717.75	389.77	178.98
83.0	718.92	983.76	1097.05	970.61	698.76	373.33	160.98
83.5	701.31	964.39	1078.41	951.47	679.99	355.95	142.59
84.0	682.17	943.93	1058.04	930.26	660.58	339.35	125.58
84.5	661.59	922.91	1038.23	909.42	639.79	322.22	109.65
85.0	639.45	900.48	1014.96	887.87	618.87	305.03	93.88
85.5	618.28	870.51	977.58	859.79	596.08	287.98	79.02
86.0	593.19	824.21	925.00	816.51	570.62	270.85	64.47
86.5	560.65	764.32	851.75	757.37	540.32	252.11	50.56
87.0	512.55	679.89	750.35	679.87	496.43	232.32	39.04
87.5	448.72	567.25	620.00	575.04	437.08	209.49	29.19
88.0	358.80	435.03	472.64	446.79	363.05	181.65	20.84
88.5	250.64	291.08	313.72	305.00	262.95	142.63	13.22
89.0	130.32	149.10	164.95	166.69	155.28	91.94	7.17
89.5	35.06	39.60	43.12	49.16	56.16	36.83	3.86
90.0	19.04	24.47	24.98	21.73	16.11	8.53	3.53
90.5	36.55	44.03	45.88	38.30	27.48	14.10	3.19
91.0	70.46	77.55	77.98	69.77	55.30	36.23	2.85
91.5	128.03	132.70	131.09	118.68	101.90	75.44	2.84
92.0	211.80	216.30	213.79	196.38	176.19	109.06	2.82
92.5	312.12	320.96	319.06	297.99	273.82	122.89	2.80
93.0	386.74	441.56	440.51	410.50	359.20	125.95	2.79
93.5	410.97	565.47	571.73	533.22	392.96	128.30	2.77
94.0	422.19	627.95	690.19	607.43	408.12	130.62	2.75
94.5	419.36	636.62	719.80	619.22	405.39	130.46	2.74
95.0	414.48	638.99	717.10	623.03	398.25	128.11	2.72
95.5	408.39	633.80	712.20	619.94	390.03	123.66	2.71
96.0	401.04	624.71	702.44	612.56	383.05	119.38	2.69

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CANDELA TABULATION - (Cont.)

96.5	393.58	615.56	691.53	601.51	378.34	115.12	2.67
97.0	386.23	607.10	680.96	592.06	374.74	110.95	2.66
97.5	378.51	599.66	670.61	583.20	368.81	107.00	2.64
98.0	370.88	592.44	661.96	576.17	361.75	103.11	2.62
98.5	362.65	582.43	652.50	569.61	353.96	99.35	2.61
99.0	354.03	572.48	642.49	564.42	345.73	95.68	2.61
99.5	345.53	563.60	632.81	556.55	337.82	92.34	2.90
100.0	337.76	554.12	624.39	546.03	329.55	89.08	3.18
100.5	329.95	544.51	613.26	536.63	322.45	85.84	3.19
101.0	321.76	534.03	602.43	526.46	315.14	82.91	3.47
101.5	313.69	524.40	591.92	516.61	307.37	79.83	3.63
102.0	306.53	515.27	581.42	506.65	299.73	77.05	3.92
102.5	299.16	505.79	570.47	496.05	292.57	74.54	4.20
103.0	291.92	495.84	560.53	486.58	285.38	72.08	4.49
103.5	284.50	486.04	550.49	476.99	278.22	69.59	4.78
104.0	277.07	476.41	539.92	468.41	271.10	67.55	5.08
104.5	269.43	466.96	529.45	459.09	264.97	65.38	5.23
105.0	261.84	457.52	520.17	450.00	258.47	63.31	5.63
105.5	253.83	447.44	510.60	440.95	251.90	61.40	5.94
106.0	246.06	438.00	502.10	431.95	245.85	59.64	6.24
106.5	238.29	428.54	491.90	423.74	239.81	57.72	6.39
107.0	230.90	419.66	482.29	415.24	234.14	56.13	6.53
107.5	223.63	410.99	473.24	407.03	228.78	54.48	6.39
108.0	216.36	402.27	463.78	398.53	222.98	52.88	6.39
108.5	208.97	393.40	454.79	390.59	217.56	51.56	6.81
109.0	202.19	384.96	446.02	382.59	212.11	50.09	7.25
109.5	196.74	375.87	436.43	374.68	206.87	48.85	7.81
110.0	192.89	367.51	428.62	367.01	201.83	47.11	7.98
110.5	189.47	358.61	419.72	358.99	196.68	45.63	8.13
111.0	185.61	349.30	411.28	351.18	191.42	44.60	7.99
111.5	182.11	341.06	402.97	343.37	186.90	43.44	7.99
112.0	178.69	332.56	395.34	336.14	182.49	42.47	8.26
112.5	175.15	323.52	387.18	328.96	178.25	41.59	8.41
113.0	171.96	314.70	378.91	321.28	173.67	40.70	8.85
113.5	169.14	306.37	370.82	314.14	169.38	39.87	9.13
114.0	166.35	298.01	363.20	307.04	165.19	39.15	9.56
114.5	163.37	290.49	355.76	299.73	160.95	38.27	9.86
115.0	160.69	283.35	347.64	292.80	156.86	37.54	10.01
115.5	157.70	276.04	339.89	285.84	152.86	36.80	10.30
116.0	154.08	269.63	332.35	279.20	148.89	36.12	10.58
116.5	150.64	263.75	325.25	272.65	144.78	35.81	10.74
117.0	147.47	258.91	317.78	266.24	141.22	35.23	10.60
117.5	144.23	254.03	310.41	259.79	137.73	34.93	10.60
118.0	140.90	249.09	302.95	253.24	133.45	34.64	10.87
118.5	136.30	244.90	295.64	247.15	129.18	34.23	10.75
119.0	133.27	240.30	288.31	240.95	125.52	33.79	11.16
119.5	130.16	236.13	281.24	235.48	122.72	33.35	11.18
120.0	127.04	232.24	273.84	229.70	119.79	33.05	11.46
120.5	124.23	227.96	266.75	224.15	117.04	32.62	11.76
121.0	121.71	223.94	260.82	218.67	114.41	32.18	12.03
121.5	119.89	219.86	254.24	213.39	112.75	31.91	12.33
122.0	117.21	215.25	247.98	207.88	110.13	31.61	12.62
122.5	114.51	210.43	241.85	202.81	107.33	31.17	12.92
123.0	112.00	205.72	235.82	197.68	105.00	30.74	13.33
123.5	109.35	201.26	230.43	192.66	102.65	30.47	13.36
124.0	107.23	196.24	224.90	187.79	100.04	30.17	13.78

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CANDELA TABULATION - (Cont.)

124.5	105.46	192.05	219.44	183.39	97.41	30.00	13.93
125.0	103.66	185.76	213.79	176.43	95.06	29.83	14.07
125.5	101.56	180.04	208.91	171.70	92.44	29.65	14.22
126.0	99.48	175.78	203.90	167.69	90.23	29.48	14.37
126.5	97.54	171.62	199.15	164.00	87.90	29.30	14.45
127.0	95.61	167.46	192.99	160.33	85.99	29.02	14.54
127.5	93.67	163.13	187.06	156.45	84.08	28.43	14.63
128.0	91.85	159.49	183.29	152.84	82.29	27.46	14.72
128.5	90.06	158.04	179.41	152.14	80.52	25.17	14.81
129.0	88.10	154.75	175.08	148.60	78.90	20.36	14.95
129.5	86.18	151.10	171.26	145.68	75.99	15.13	15.37
130.0	83.07	147.82	167.17	142.45	74.46	11.84	15.39
130.5	81.53	144.26	164.74	139.62	72.99	11.41	15.67
131.0	79.75	141.11	162.65	136.66	71.67	11.40	15.54
131.5	78.11	137.98	159.07	133.98	70.49	11.40	15.81
132.0	76.55	135.16	155.12	130.90	69.10	11.26	15.96
132.5	75.05	132.45	151.69	127.92	68.06	11.26	16.11
133.0	73.59	129.53	148.33	124.87	66.91	11.90	16.40
133.5	72.10	126.56	145.23	122.21	65.60	12.54	16.55
134.0	70.84	124.03	141.68	119.55	65.44	13.18	16.70
134.5	70.79	121.24	138.63	116.63	64.35	13.82	17.11
135.0	69.64	118.42	135.23	114.14	63.32	14.47	17.13
135.5	68.30	115.85	132.25	111.59	62.14	15.11	17.56
136.0	67.11	113.18	129.01	108.94	61.26	15.75	17.57
136.5	66.07	110.68	126.07	106.44	60.54	18.78	17.84
137.0	64.94	107.02	123.13	101.69	59.85	21.53	18.00
137.5	63.75	102.98	120.14	98.92	58.83	21.79	18.14
138.0	62.70	100.53	117.00	96.53	57.94	22.04	18.28
138.5	61.72	98.15	114.23	94.30	57.11	22.30	18.71
139.0	60.67	95.74	111.65	92.35	56.22	22.55	18.73
139.5	59.62	93.49	106.34	90.57	55.34	22.81	19.02
140.0	58.87	91.25	103.39	88.47	54.61	22.95	19.02
140.5	57.89	89.28	101.13	86.67	53.92	23.09	19.16
141.0	56.98	87.33	98.74	84.59	53.04	23.24	19.16
141.5	56.09	86.13	96.36	83.99	52.44	23.98	19.03
142.0	55.25	85.99	94.56	83.03	51.75	25.21	19.09
142.5	54.50	84.11	92.47	81.27	51.02	25.26	19.15
143.0	53.75	82.32	90.11	79.50	50.57	25.31	19.21
143.5	53.01	80.69	88.49	78.03	49.70	25.35	19.27
144.0	52.17	79.01	88.22	76.54	49.15	25.40	19.33
144.5	51.42	77.36	86.49	74.87	47.86	25.45	19.39
145.0	50.68	75.87	84.26	73.23	46.54	25.50	19.45
145.5	49.49	74.24	82.50	71.76	44.37	25.55	19.31
146.0	47.29	72.62	80.88	70.45	38.90	25.60	19.38
146.5	42.75	71.12	79.10	69.11	30.57	25.60	19.46
147.0	35.10	69.60	77.16	67.60	20.16	25.61	19.53
147.5	25.56	68.09	75.65	66.38	11.74	25.62	19.60
148.0	16.71	66.88	73.71	65.04	11.38	25.63	19.62
148.5	11.67	65.48	72.18	63.65	11.03	25.63	19.65
149.0	11.31	64.14	70.56	62.32	10.68	25.64	19.67
149.5	11.31	62.80	68.94	61.14	10.32	25.65	19.70
150.0	11.16	61.60	67.44	59.95	9.97	25.66	19.72
150.5	11.16	60.41	65.81	58.77	11.37	25.66	19.73
151.0	10.99	59.07	64.49	57.81	12.77	25.67	19.74
151.5	9.46	57.96	62.96	56.36	14.17	25.68	19.75
152.0	9.40	56.20	61.62	54.31	15.57	25.69	19.76

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CANDELA TABULATION - (Cont.)

152.5	10.41	53.70	60.28	50.35	16.97	25.70	19.77
153.0	16.32	47.43	58.80	41.67	23.10	25.71	19.78
153.5	22.42	35.03	57.40	28.20	29.30	25.71	19.78
154.0	27.44	22.41	55.08	16.17	30.73	25.72	19.79
154.5	30.94	13.10	50.35	11.00	30.78	25.73	19.80
155.0	30.85	10.29	39.21	10.79	30.84	25.74	19.81
155.5	30.76	10.00	24.84	10.79	30.89	25.74	19.82
156.0	30.67	9.70	13.75	10.48	30.95	25.75	19.83
156.5	30.58	9.41	9.64	9.52	31.00	25.76	19.84
157.0	30.49	9.11	9.22	8.62	31.06	25.77	19.85
157.5	30.40	8.82	8.92	8.46	31.06	25.77	19.85
158.0	30.40	9.63	8.61	12.67	31.21	25.78	19.86
158.5	30.26	15.96	7.63	20.07	31.07	25.79	19.87
159.0	30.40	23.57	7.61	26.95	31.21	25.80	19.88
159.5	30.26	30.39	9.61	33.16	31.21	25.80	19.89
160.0	30.25	31.08	16.83	33.17	31.07	25.81	20.03
160.5	30.11	31.76	24.52	33.18	30.78	25.82	20.31
161.0	29.97	32.44	25.37	33.20	30.49	25.83	20.60
161.5	29.81	33.12	26.23	33.21	30.34	25.68	20.89
162.0	29.67	33.81	27.08	33.22	30.20	24.86	21.32
162.5	29.67	33.64	27.93	33.23	30.20	24.11	21.48
163.0	29.52	33.47	28.79	33.25	30.05	23.96	21.76
163.5	29.38	33.30	29.64	32.83	29.93	23.82	22.06
164.0	29.08	33.12	30.50	32.10	29.82	23.82	22.21
164.5	28.93	32.95	31.35	31.51	29.71	23.67	22.64
165.0	28.78	32.78	32.20	31.07	29.55	23.53	22.79
165.5	28.64	31.90	33.06	30.77	29.40	23.53	22.94
166.0	28.49	31.05	32.92	30.21	29.25	23.39	22.94
166.5	28.44	30.59	32.63	30.05	29.10	23.38	23.08
167.0	28.39	29.85	32.18	30.05	28.95	23.24	23.51
167.5	28.35	29.40	31.89	29.93	28.80	23.09	23.52
168.0	28.30	29.24	31.61	29.82	28.64	22.95	23.93
168.5	28.25	28.68	31.31	29.70	28.49	22.81	24.09
169.0	28.20	28.09	31.30	29.59	28.34	22.67	24.24
169.5	28.20	27.65	30.97	29.35	28.19	22.66	24.38
170.0	27.46	27.19	30.64	29.11	26.31	22.52	24.68
170.5	27.04	26.91	30.30	28.87	25.05	22.52	24.82
171.0	25.58	26.76	29.97	28.63	24.86	22.66	25.11
171.5	24.54	26.04	29.63	28.40	24.57	23.22	25.26
172.0	24.09	24.15	29.30	28.16	24.28	23.52	25.54
172.5	23.94	23.52	28.97	26.11	23.99	23.81	25.55
173.0	23.66	22.40	27.48	25.13	23.71	24.99	25.69
173.5	23.08	21.92	25.66	24.66	23.28	26.36	25.70
174.0	22.91	21.61	24.88	24.22	23.12	27.40	26.12
174.5	22.47	21.46	24.43	23.78	22.83	28.28	25.99
175.0	21.88	21.31	24.13	23.48	22.97	28.35	26.01
175.5	21.88	21.31	23.72	23.06	23.93	28.42	26.02
176.0	21.74	21.17	23.28	23.04	24.40	28.50	26.04
176.5	23.03	20.74	23.04	23.33	26.40	28.57	26.06
177.0	23.79	22.03	22.81	24.64	27.58	28.65	26.08
177.5	25.41	23.37	22.57	27.13	28.17	28.72	26.10
178.0	26.74	26.17	22.34	28.30	28.47	28.79	26.11
178.5	27.30	27.30	22.10	28.30	28.47	28.87	26.13
179.0	27.75	27.48	21.51	28.30	28.32	28.87	26.13
179.5	28.05	27.49	19.02	28.30	28.32	28.87	26.13
180.0	16.45	16.45	16.45	16.45	16.45	16.45	16.45

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1290.93	N.A.	10.80
0-30	2736.36	N.A.	22.80
0-40	4475.53	N.A.	37.40
0-60	7978.36	N.A.	66.60
0-80	10429.43	N.A.	87.10
0-90	11011.12	N.A.	91.90
10-90	10676.56	N.A.	89.10
20-40	3184.6	N.A.	26.60
20-50	4999.43	N.A.	41.70
40-70	4910.39	N.A.	41.00
60-80	2451.06	N.A.	20.50
70-80	1043.51	N.A.	8.70
80-90	581.69	N.A.	4.90
90-110	582.59	N.A.	4.90
90-120	754.31	N.A.	6.30
90-130	855.03	N.A.	7.10
90-150	942.28	N.A.	7.90
90-180	965.17	N.A.	8.10
110-180	382.58	N.A.	3.20
0-180	11976.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	334.55
10-20	956.38
20-30	1445.43
30-40	1739.16
40-50	1814.84
50-60	1688.00
60-70	1407.56
70-80	1043.51
80-90	581.69
90-100	301.39
100-110	281.20
110-120	171.72
120-130	100.72
130-140	55.48
140-150	31.78
150-160	12.89
160-170	7.61
170-180	2.38

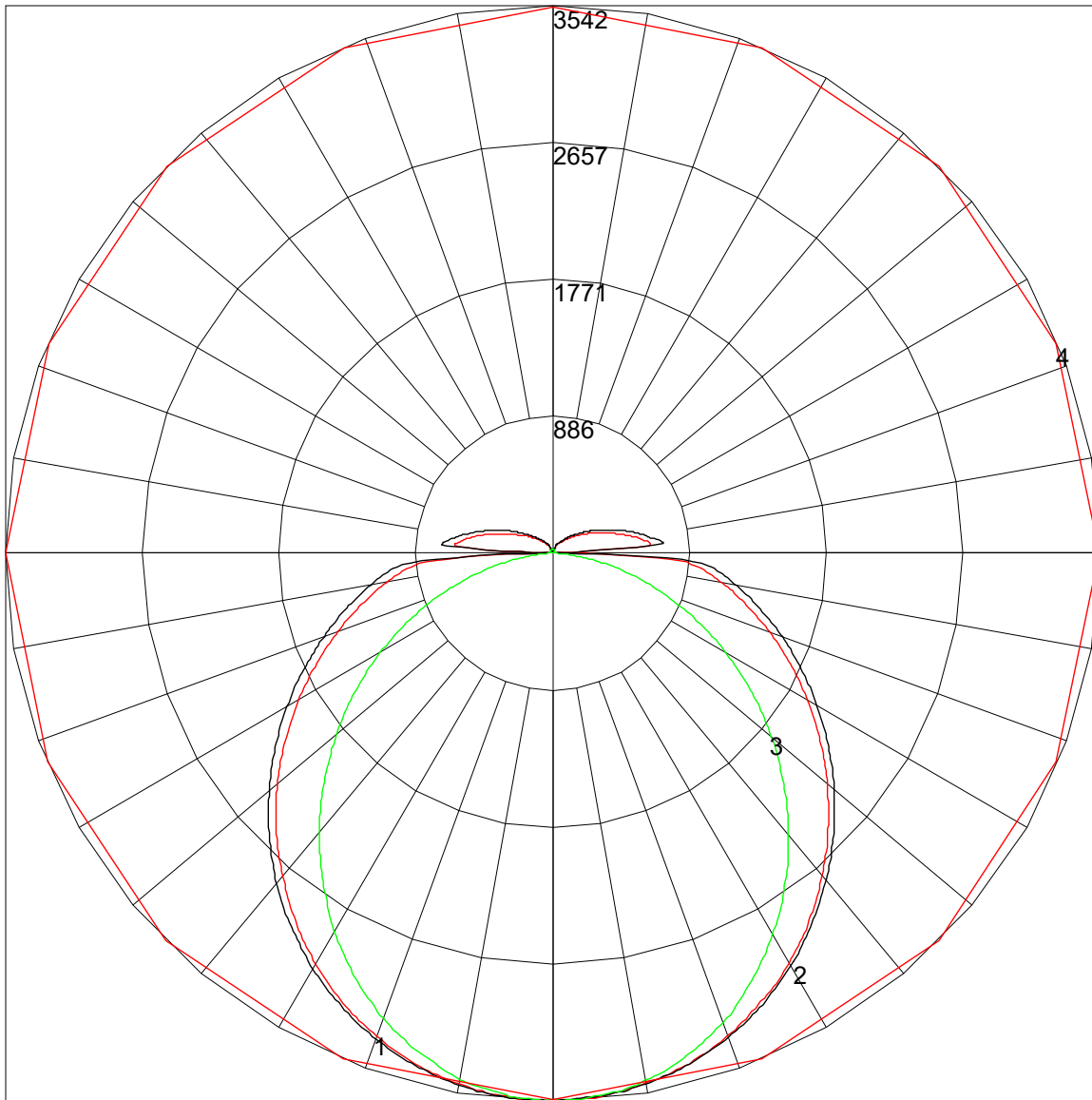
IES INDOOR REPORT
PHOTOMETRIC FILENAME : S-LED8-90PS-8CSA_90W_4K.IES

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	74
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	38	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 = 3542.43 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.)