



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS6002HTMOWT50120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB] BEGHELLI

[TESTDATE] 08 March 2022

[ISSUEDATE] 2022-03-08 15:04:59

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LAMP] LED

[LUMINAIRE] HZCAS6002HTMOWT50120-277V

Note: Candela values converted from Type-B to Type-C

### CHARACTERISTICS

Lumens Per Lamp	8053.8 (1 lamp)
Total Lamp Lumens	8053.8
Luminaire Lumens	8056
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	60.5534
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.60 m
Luminous Width (90-270)	0.60 m
Luminous Height	0.00 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9205	8695	7900
55	9292	8814	7283
65	8545	8240	6008
75	5229	6009	3611
85	0	0	413

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**CANDELA TABULATION**

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2959.57	2959.38	2959.19	2959.01	2958.84	2958.67	2958.51	2958.36	2958.21	2957.99
<b>5.0</b>	2957.16	2956.81	2956.46	2956.13	2955.81	2955.44	2955.00	2954.58	2954.17	2953.57
<b>7.5</b>	2954.76	2954.26	2953.78	2953.28	2952.66	2952.00	2951.22	2950.54	2949.69	2948.86
<b>10.0</b>	2952.35	2951.74	2951.15	2950.36	2949.48	2948.51	2947.38	2946.25	2944.68	2943.12
<b>12.5</b>	2949.95	2949.25	2948.51	2947.42	2946.26	2944.88	2943.27	2941.29	2939.10	2936.70
<b>15.0</b>	2947.55	2946.78	2945.79	2944.39	2942.97	2941.14	2938.80	2935.98	2932.98	2929.63
<b>17.5</b>	2913.86	2913.14	2912.39	2911.71	2911.16	2910.25	2909.22	2908.17	2906.60	2906.11
<b>20.0</b>	2880.16	2879.32	2878.28	2877.24	2876.12	2874.78	2873.18	2870.90	2869.70	2867.97
<b>22.5</b>	2846.47	2845.44	2843.92	2842.71	2841.10	2839.03	2836.71	2834.28	2831.75	2829.13
<b>25.0</b>	2812.78	2811.61	2809.87	2808.00	2805.86	2803.09	2800.04	2796.80	2793.31	2789.64
<b>27.5</b>	2779.09	2777.67	2775.53	2773.21	2770.42	2766.95	2763.20	2758.83	2754.46	2749.43
<b>30.0</b>	2745.39	2743.71	2741.14	2738.45	2734.91	2730.69	2725.96	2720.74	2714.85	2708.71
<b>32.5</b>	2678.54	2677.07	2675.23	2673.87	2671.86	2669.84	2667.68	2665.58	2663.18	2661.15
<b>35.0</b>	2611.69	2610.14	2608.08	2606.25	2603.81	2601.14	2598.17	2594.38	2591.67	2588.48
<b>37.5</b>	2544.85	2543.22	2540.93	2538.70	2535.75	2532.17	2528.56	2524.18	2519.88	2515.22
<b>40.0</b>	2478.00	2476.32	2473.76	2471.22	2467.50	2463.24	2458.51	2453.29	2447.77	2441.80
<b>42.5</b>	2411.15	2409.44	2406.60	2403.73	2399.26	2394.18	2388.54	2382.11	2375.44	2368.43
<b>45.0</b>	2344.30	2342.56	2339.46	2336.07	2331.00	2325.16	2318.40	2310.89	2303.07	2295.19
<b>47.5</b>	2238.10	2236.53	2234.45	2232.57	2229.85	2227.33	2224.65	2221.87	2219.77	2217.89
<b>50.0</b>	2131.90	2129.88	2127.70	2125.14	2121.81	2118.53	2114.99	2111.53	2108.46	2105.08
<b>52.5</b>	2025.70	2023.55	2020.82	2017.41	2013.32	2009.85	2005.50	2001.18	1996.82	1992.14
<b>55.0</b>	1919.49	1917.08	1914.11	1910.18	1905.80	1901.15	1896.09	1890.84	1885.11	1879.24
<b>57.5</b>	1813.29	1810.58	1807.25	1802.67	1797.77	1792.51	1786.78	1780.48	1773.36	1766.25
<b>60.0</b>	1707.09	1704.09	1700.39	1695.20	1689.79	1684.01	1677.23	1670.12	1661.74	1653.01
<b>62.5</b>	1503.82	1501.72	1500.72	1500.01	1500.93	1503.10	1506.31	1510.08	1514.43	1519.01
<b>65.0</b>	1300.55	1298.46	1297.44	1296.73	1297.76	1299.80	1303.18	1307.39	1312.00	1316.38
<b>67.5</b>	1097.28	1095.20	1094.19	1093.23	1094.68	1096.69	1100.42	1105.06	1109.84	1114.53
<b>70.0</b>	894.00	891.96	890.98	890.38	891.72	893.74	897.97	903.05	908.20	913.40
<b>72.5</b>	690.73	688.73	687.79	687.31	688.87	690.59	695.81	701.41	706.97	712.85
<b>75.0</b>	487.45	485.51	484.63	484.30	486.11	488.29	493.93	500.08	505.99	512.89
<b>77.5</b>	243.73	243.30	244.49	246.99	251.58	257.24	265.82	275.32	285.36	296.62
<b>80.0</b>	0.00	0.90	3.59	8.01	14.14	21.87	31.34	42.30	54.58	68.26
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2957.90	2957.71	2957.53	2957.36	2957.21	2957.06	2956.92	2956.79	2956.67	2956.56
<b>5.0</b>	2953.29	2952.75	2952.24	2951.74	2951.26	2950.75	2950.11	2949.50	2948.93	2948.38
<b>7.5</b>	2947.86	2946.72	2945.62	2944.53	2943.29	2942.10	2940.96	2939.82	2938.59	2937.49
<b>10.0</b>	2941.41	2939.58	2937.71	2935.80	2933.84	2931.92	2929.91	2927.99	2926.11	2924.03
<b>12.5</b>	2934.16	2931.48	2928.72	2925.87	2922.99	2919.91	2916.91	2913.71	2910.63	2907.60
<b>15.0</b>	2926.12	2922.45	2918.54	2914.57	2910.30	2906.07	2901.74	2897.55	2893.38	2889.39
<b>17.5</b>	2905.23	2904.42	2903.72	2901.82	2895.77	2890.93	2885.48	2879.78	2873.95	2868.03
<b>20.0</b>	2866.29	2864.66	2863.10	2861.93	2860.98	2860.22	2859.19	2858.95	2851.44	2843.99
<b>22.5</b>	2826.46	2823.85	2821.59	2819.21	2816.69	2814.39	2812.51	2810.92	2810.33	2809.91
<b>25.0</b>	2785.83	2782.20	2778.43	2774.47	2770.57	2765.84	2764.26	2761.67	2759.49	2757.90
<b>27.5</b>	2744.48	2739.32	2733.78	2728.16	2723.09	2718.53	2714.04	2709.99	2706.47	2701.67
<b>30.0</b>	2702.24	2695.24	2687.84	2681.12	2674.62	2668.18	2662.03	2656.20	2650.95	2646.10

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**CANDELA TABULATION - (Cont.)**

32.5	2659.19	2649.96	2641.45	2633.12	2623.97	2616.35	2608.29	2600.76	2593.39	2586.66
35.0	2584.78	2581.60	2579.23	2576.41	2573.41	2563.23	2553.23	2543.48	2532.54	2524.29
37.5	2509.32	2506.45	2502.45	2498.84	2495.80	2493.31	2491.60	2484.41	2471.73	2459.43
40.0	2436.26	2430.57	2425.12	2420.09	2415.25	2410.91	2406.68	2402.89	2399.81	2392.01
42.5	2361.52	2354.35	2347.55	2340.59	2333.69	2326.83	2321.63	2313.51	2307.63	2303.15
45.0	2286.50	2278.07	2269.39	2260.28	2249.71	2241.22	2231.77	2222.53	2214.44	2206.56
47.5	2211.42	2200.35	2190.68	2179.25	2167.07	2154.65	2142.31	2130.75	2119.05	2105.61
50.0	2102.39	2100.02	2097.63	2095.17	2082.55	2067.20	2052.50	2037.32	2022.15	2006.92
52.5	1988.07	1983.50	1978.94	1973.95	1969.16	1965.44	1961.47	1943.09	1923.89	1905.39
55.0	1873.28	1866.75	1859.70	1852.32	1844.72	1836.14	1831.62	1825.41	1820.82	1802.96
57.5	1758.13	1748.43	1739.18	1728.91	1718.21	1709.59	1699.24	1689.07	1680.73	1674.09
60.0	1642.91	1632.18	1620.42	1607.37	1594.24	1580.35	1565.45	1551.60	1538.69	1528.43
62.5	1523.56	1514.68	1500.44	1484.41	1468.08	1449.95	1431.17	1412.95	1396.21	1383.17
65.0	1321.29	1325.70	1328.10	1330.79	1332.18	1318.96	1296.23	1273.39	1254.21	1235.91
67.5	1119.81	1124.69	1127.97	1130.00	1131.80	1130.15	1126.35	1121.53	1113.94	1094.16
70.0	919.28	924.76	928.19	930.84	933.71	932.71	930.63	929.11	929.73	931.50
72.5	719.50	725.83	729.06	733.60	738.32	737.87	739.06	741.07	742.97	746.77
75.0	520.48	527.57	531.04	538.10	545.17	545.81	551.24	557.78	560.17	566.52
77.5	309.01	321.04	329.62	342.35	353.85	356.71	366.42	373.59	380.63	390.05
80.0	83.04	98.52	113.44	130.14	146.33	160.42	176.80	189.74	203.36	216.97
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.74	27.46	47.41
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
2.5	2956.26	2956.34	2956.26	2956.13	2956.03	2955.93	2955.86	2955.80	2955.75	2955.72
5.0	2947.88	2947.25	2946.90	2946.43	2945.99	2945.61	2945.27	2944.97	2944.73	2944.53
7.5	2936.33	2934.97	2934.29	2933.32	2932.45	2931.66	2930.95	2929.87	2929.76	2929.17
10.0	2922.05	2919.56	2918.31	2916.51	2914.87	2913.33	2911.93	2910.62	2909.47	2908.50
12.5	2904.63	2901.82	2899.10	2896.52	2894.13	2891.89	2889.75	2887.84	2886.18	2883.86
15.0	2885.23	2881.31	2877.31	2873.38	2869.21	2866.34	2863.23	2860.46	2857.95	2855.66
17.5	2862.29	2856.79	2851.45	2846.31	2841.51	2836.91	2832.73	2828.85	2825.25	2822.14
20.0	2836.76	2829.73	2822.83	2816.12	2809.75	2803.75	2798.24	2793.05	2788.43	2784.37
22.5	2808.85	2799.78	2791.08	2782.74	2774.59	2766.91	2759.54	2752.70	2746.54	2741.00
25.0	2756.97	2756.46	2756.32	2745.65	2735.37	2725.77	2716.57	2707.85	2700.14	2693.02
27.5	2700.75	2698.85	2697.82	2696.13	2692.83	2680.62	2668.99	2658.17	2648.31	2639.41
30.0	2641.94	2638.41	2635.44	2631.95	2631.90	2630.87	2615.60	2603.50	2591.40	2580.30
32.5	2580.16	2574.15	2570.00	2563.57	2561.48	2559.52	2560.03	2544.25	2529.55	2516.26
35.0	2515.29	2506.79	2498.97	2490.64	2487.24	2483.14	2480.38	2479.36	2461.42	2445.36
37.5	2447.30	2436.61	2423.80	2416.80	2408.32	2401.25	2396.00	2392.87	2388.59	2369.55
40.0	2377.27	2363.25	2349.46	2336.51	2325.11	2315.29	2307.62	2302.10	2299.14	2289.18
42.5	2299.58	2286.85	2269.46	2253.06	2238.62	2225.75	2215.26	2206.96	2201.44	2199.33
45.0	2199.25	2193.30	2186.80	2167.18	2149.05	2132.77	2118.68	2107.99	2099.96	2095.18
47.5	2098.00	2087.68	2080.06	2074.53	2056.33	2036.96	2017.00	2002.50	1993.67	1985.99
50.0	1991.01	1980.12	1969.10	1959.63	1953.79	1938.36	1915.79	1896.43	1877.84	1859.81
52.5	1887.55	1871.18	1855.56	1841.73	1830.13	1822.65	1800.86	1770.93	1746.27	1727.82
55.0	1781.29	1759.78	1737.56	1715.46	1698.04	1680.25	1661.78	1644.64	1619.39	1600.49
57.5	1669.29	1644.03	1610.83	1584.55	1556.96	1540.85	1525.93	1517.74	1498.87	1476.21
60.0	1518.56	1501.26	1483.25	1451.08	1430.11	1408.89	1392.11	1379.56	1371.41	1349.09
62.5	1366.64	1347.46	1331.48	1321.84	1304.90	1279.88	1257.34	1233.37	1224.12	1209.54
65.0	1217.43	1199.53	1177.18	1169.74	1161.11	1149.99	1110.83	1093.21	1074.41	1053.22
67.5	1076.97	1051.72	1032.54	1020.15	1005.43	981.35	974.99	966.65	935.12	909.36

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	932.40	905.01	889.57	872.07	849.58	832.55	833.04	823.95	795.99	768.32
<b>72.5</b>	741.80	737.49	737.80	724.77	702.87	691.94	682.65	666.68	654.22	637.88
<b>75.0</b>	563.92	565.46	565.81	558.89	555.69	551.12	538.95	521.18	506.26	487.45
<b>77.5</b>	392.61	398.07	398.94	399.42	401.70	400.41	399.01	383.59	366.03	347.95
<b>80.0</b>	225.91	235.27	241.73	247.71	254.80	259.19	258.85	252.01	241.80	225.25
<b>82.5</b>	65.29	81.65	94.94	106.01	114.78	125.03	132.83	136.00	134.81	130.11
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	14.40	27.35	37.05	43.71	49.76
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<b><u>75.0</u></b>	<b><u>77.5</u></b>	<b><u>80.0</u></b>	<b><u>82.5</u></b>	<b><u>85.0</u></b>	<b><u>87.5</u></b>	<b><u>90.0</u></b>	<b><u>92.5</u></b>	<b><u>95.0</u></b>	<b><u>97.5</u></b>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2955.71	2955.71	2955.73	2955.77	2955.82	2955.89	2955.98	2954.69	2953.41	2952.16
<b>5.0</b>	2944.38	2944.28	2943.84	2944.01	2944.18	2944.35	2944.52	2941.93	2939.35	2936.77
<b>7.5</b>	2928.69	2928.32	2928.07	2927.92	2927.89	2927.98	2928.18	2924.35	2920.65	2917.08
<b>10.0</b>	2907.69	2907.05	2906.59	2905.51	2905.84	2906.16	2906.49	2901.34	2896.20	2891.07
<b>12.5</b>	2883.48	2882.35	2881.51	2880.95	2880.67	2880.67	2880.96	2874.62	2868.58	2862.85
<b>15.0</b>	2853.75	2852.20	2851.04	2850.25	2849.09	2849.64	2850.19	2842.38	2834.58	2828.53
<b>17.5</b>	2819.51	2817.33	2815.60	2814.40	2813.72	2813.57	2813.95	2804.98	2796.56	2788.70
<b>20.0</b>	2780.71	2777.71	2775.37	2773.71	2771.37	2772.09	2772.81	2762.11	2751.43	2743.90
<b>22.5</b>	2736.26	2731.16	2729.10	2726.68	2725.15	2724.52	2724.80	2713.14	2702.42	2692.66
<b>25.0</b>	2686.80	2681.42	2677.12	2673.92	2671.84	2670.31	2671.04	2657.53	2646.32	2635.72
<b>27.5</b>	2631.57	2625.01	2619.70	2615.51	2612.73	2611.38	2611.46	2597.19	2584.38	2573.07
<b>30.0</b>	2570.70	2562.48	2555.78	2550.72	2547.32	2544.74	2545.54	2529.02	2515.93	2503.77
<b>32.5</b>	2504.41	2494.22	2484.42	2479.55	2475.16	2472.88	2472.74	2455.75	2440.94	2428.34
<b>35.0</b>	2431.07	2418.95	2408.84	2401.09	2395.75	2391.62	2392.49	2373.10	2358.75	2345.70
<b>37.5</b>	2352.83	2338.14	2326.11	2316.76	2310.17	2306.49	2305.78	2286.45	2270.13	2256.85
<b>40.0</b>	2269.28	2252.10	2237.90	2226.84	2219.08	2212.96	2213.68	2191.31	2175.87	2162.24
<b>42.5</b>	2181.30	2161.42	2144.70	2131.60	2122.15	2116.65	2115.16	2093.36	2075.63	2062.00
<b>45.0</b>	2088.57	2065.26	2046.04	2030.94	2020.11	2011.40	2011.75	1985.49	1968.55	1954.81
<b>47.5</b>	1982.27	1963.28	1938.14	1916.58	1902.59	1893.08	1889.86	1863.67	1843.68	1828.10
<b>50.0</b>	1852.68	1841.53	1809.28	1787.63	1770.97	1757.48	1757.43	1728.04	1711.73	1698.25
<b>52.5</b>	1715.94	1710.22	1687.72	1664.16	1647.01	1636.51	1632.95	1606.60	1587.18	1574.40
<b>55.0</b>	1587.58	1581.02	1570.03	1542.62	1522.17	1505.33	1504.58	1474.35	1459.99	1449.12
<b>57.5</b>	1459.07	1448.05	1443.94	1414.40	1390.83	1376.07	1370.55	1339.37	1319.39	1311.18
<b>60.0</b>	1326.07	1306.50	1297.56	1273.60	1237.99	1209.58	1208.03	1175.13	1164.79	1156.26
<b>62.5</b>	1170.25	1148.03	1134.54	1123.93	1095.23	1077.26	1070.53	1043.53	1027.34	1021.03
<b>65.0</b>	1036.76	1010.29	993.18	988.30	959.67	931.16	914.46	892.58	883.19	875.64
<b>67.5</b>	891.96	864.75	844.80	833.89	809.53	780.56	765.08	745.75	740.09	725.70
<b>70.0</b>	740.94	724.02	702.30	686.63	672.54	635.20	614.92	592.68	588.85	570.15
<b>72.5</b>	601.71	579.13	551.65	534.04	518.37	487.63	474.91	450.65	442.88	420.83
<b>75.0</b>	463.39	435.95	422.38	396.44	375.55	351.36	336.59	316.98	306.08	290.67
<b>77.5</b>	329.13	311.64	290.18	275.81	251.65	232.93	217.65	204.56	193.72	183.87
<b>80.0</b>	212.78	198.60	184.16	168.20	152.07	137.64	121.54	114.21	104.85	97.98
<b>82.5</b>	121.25	109.74	100.22	87.21	76.76	65.44	54.96	49.29	45.36	39.69
<b>85.0</b>	52.49	50.12	43.28	35.64	26.27	14.89	12.96	16.28	14.10	14.27
<b>87.5</b>	0.00	5.35	10.48	10.74	6.09	2.58	2.99	5.36	6.55	7.35
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	3.27	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<b><u>100.0</u></b>	<b><u>102.5</u></b>	<b><u>105.0</u></b>	<b><u>107.5</u></b>	<b><u>110.0</u></b>	<b><u>112.5</u></b>	<b><u>115.0</u></b>	<b><u>117.5</u></b>	<b><u>120.0</u></b>	<b><u>122.5</u></b>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2950.93	2949.73	2948.55	2947.41	2946.29	2945.21	2944.17	2943.17	2942.20	2941.28

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**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	2934.22	2932.29	2930.04	2927.87	2925.78	2923.77	2921.86	2920.03	2918.31	2916.68
<b>7.5</b>	2913.64	2910.34	2907.19	2904.19	2901.34	2898.08	2895.84	2893.29	2890.89	2888.67
<b>10.0</b>	2887.37	2883.10	2879.04	2875.21	2871.61	2868.25	2865.13	2862.19	2859.46	2856.99
<b>12.5</b>	2857.43	2852.33	2847.58	2842.17	2838.73	2834.75	2831.10	2827.79	2824.76	2822.06
<b>15.0</b>	2822.14	2816.18	2810.68	2805.63	2801.05	2796.78	2792.90	2789.49	2785.99	2783.95
<b>17.5</b>	2781.43	2774.76	2768.66	2763.16	2758.29	2754.07	2750.30	2747.02	2744.35	2741.98
<b>20.0</b>	2735.75	2728.40	2721.86	2716.15	2710.97	2706.52	2702.86	2699.71	2697.29	2695.58
<b>22.5</b>	2683.86	2674.82	2669.00	2663.01	2658.02	2653.85	2649.75	2648.18	2646.60	2645.76
<b>25.0</b>	2626.33	2618.15	2611.21	2605.32	2600.57	2596.65	2594.01	2592.14	2591.19	2591.26
<b>27.5</b>	2563.27	2554.73	2547.62	2542.00	2537.66	2534.68	2532.89	2532.19	2532.53	2523.78
<b>30.0</b>	2493.40	2484.86	2478.08	2473.01	2469.75	2467.59	2465.74	2466.67	2454.46	2440.85
<b>32.5</b>	2416.36	2409.42	2403.08	2398.61	2395.86	2394.97	2394.86	2379.62	2366.33	2353.40
<b>35.0</b>	2335.21	2327.25	2321.39	2317.84	2316.57	2317.65	2300.41	2285.57	2272.98	2260.64
<b>37.5</b>	2246.50	2239.03	2234.46	2232.30	2232.84	2217.14	2200.29	2186.36	2175.07	2166.03
<b>40.0</b>	2152.17	2145.48	2141.86	2141.34	2130.12	2111.27	2095.65	2082.80	2072.63	2065.24
<b>42.5</b>	2052.19	2046.22	2043.86	2039.78	2018.35	2000.54	1986.01	1974.68	1966.53	1960.66
<b>45.0</b>	1946.20	1941.79	1941.54	1921.19	1899.91	1883.96	1871.97	1862.66	1856.29	1853.05
<b>47.5</b>	1822.13	1821.22	1815.55	1792.22	1772.48	1754.51	1745.71	1744.95	1743.01	1736.79
<b>50.0</b>	1689.27	1689.85	1670.87	1647.74	1635.88	1623.73	1614.44	1614.21	1610.34	1592.54
<b>52.5</b>	1568.01	1559.71	1533.74	1514.27	1500.78	1490.66	1482.55	1470.75	1454.67	1442.12
<b>55.0</b>	1445.18	1422.40	1398.07	1381.84	1369.78	1362.58	1345.80	1324.05	1302.94	1292.91
<b>57.5</b>	1312.06	1279.83	1252.89	1234.08	1231.15	1224.66	1200.98	1180.54	1160.55	1144.70
<b>60.0</b>	1140.50	1118.65	1105.35	1092.07	1077.58	1056.64	1048.49	1035.07	1021.82	1007.93
<b>62.5</b>	990.90	962.04	946.23	947.91	924.84	904.08	888.25	882.91	879.19	858.49
<b>65.0</b>	846.90	820.51	801.87	781.18	770.37	757.90	743.30	732.60	706.96	677.47
<b>67.5</b>	694.94	676.84	657.28	633.58	617.08	610.35	599.83	566.45	531.51	500.08
<b>70.0</b>	545.56	525.44	508.27	491.72	476.86	462.43	439.36	407.90	370.83	332.44
<b>72.5</b>	406.34	388.97	368.16	354.34	340.71	319.81	292.42	258.93	218.41	174.71
<b>75.0</b>	279.93	264.62	245.08	235.95	218.60	194.83	162.05	120.87	118.66	118.83
<b>77.5</b>	171.04	157.30	150.76	136.97	115.88	83.75	83.07	80.70	78.76	76.67
<b>80.0</b>	86.36	84.04	73.82	55.15	53.56	52.63	50.49	46.72	42.22	37.20
<b>82.5</b>	38.42	31.16	28.64	28.88	27.34	24.19	19.56	13.97	8.89	7.60
<b>85.0</b>	13.20	13.70	12.32	9.10	5.48	3.83	2.47	1.18	0.00	0.00
<b>87.5</b>	5.69	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<b><u>125.0</u></b>	<b><u>127.5</u></b>	<b><u>130.0</u></b>	<b><u>132.5</u></b>	<b><u>135.0</u></b>	<b><u>137.5</u></b>	<b><u>140.0</u></b>	<b><u>142.5</u></b>	<b><u>145.0</u></b>	<b><u>147.5</u></b>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2940.40	2939.51	2938.49	2937.88	2937.12	2936.40	2935.74	2935.12	2934.56	2934.05
<b>5.0</b>	2915.15	2913.55	2912.30	2910.99	2909.80	2908.71	2907.73	2906.86	2905.94	2905.08
<b>7.5</b>	2886.61	2884.37	2882.90	2881.27	2879.82	2878.54	2877.30	2876.19	2875.25	2874.50
<b>10.0</b>	2854.77	2852.13	2850.84	2849.19	2847.78	2846.31	2845.02	2843.99	2843.05	2842.33
<b>12.5</b>	2819.71	2817.62	2815.69	2814.10	2812.75	2811.63	2810.82	2809.76	2809.57	2809.07
<b>15.0</b>	2781.85	2779.98	2778.19	2776.84	2775.78	2775.15	2774.55	2774.29	2774.20	2774.41
<b>17.5</b>	2740.09	2738.61	2737.47	2736.83	2736.65	2736.59	2736.61	2736.99	2737.17	2738.40
<b>20.0</b>	2694.60	2694.08	2693.94	2694.06	2694.57	2695.01	2688.12	2682.14	2676.18	2671.08
<b>22.5</b>	2645.28	2645.45	2645.23	2638.84	2630.89	2623.37	2616.70	2610.59	2605.32	2600.83
<b>25.0</b>	2591.69	2581.91	2572.66	2563.78	2555.86	2549.05	2543.13	2536.56	2532.93	2528.73
<b>27.5</b>	2513.41	2502.93	2493.76	2484.16	2479.26	2472.81	2467.29	2462.77	2458.82	2455.49
<b>30.0</b>	2431.03	2421.38	2412.82	2405.36	2399.13	2394.23	2390.21	2386.33	2383.38	2381.00
<b>32.5</b>	2344.54	2335.87	2328.67	2322.71	2317.63	2313.40	2310.52	2308.79	2306.08	2305.57
<b>35.0</b>	2254.05	2246.92	2241.34	2236.77	2232.27	2231.28	2229.48	2228.66	2229.11	2219.54
<b>37.5</b>	2156.79	2153.77	2150.40	2148.12	2146.82	2146.58	2140.15	2127.07	2115.52	2106.07
<b>40.0</b>	2060.05	2057.13	2055.91	2056.22	2047.30	2032.90	2019.95	2008.80	1998.57	1989.80

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**CANDELA TABULATION - (Cont.)**

42.5	1957.64	1956.99	1951.09	1935.44	1921.26	1909.10	1898.01	1888.34	1880.17	1872.79
45.0	1852.30	1835.40	1819.58	1805.40	1793.53	1782.96	1774.40	1766.39	1758.85	1754.93
47.5	1715.41	1698.84	1685.38	1672.33	1663.98	1655.61	1648.82	1643.47	1638.69	1635.59
50.0	1573.11	1557.39	1545.36	1540.38	1533.58	1527.35	1522.19	1519.20	1516.78	1510.51
52.5	1429.22	1414.96	1403.40	1402.27	1401.36	1398.20	1393.61	1365.12	1335.59	1307.29
55.0	1282.94	1273.12	1263.37	1259.99	1258.17	1228.71	1196.34	1162.80	1133.58	1105.30
57.5	1140.03	1131.63	1118.78	1084.36	1055.92	1029.32	997.11	965.85	932.45	902.21
60.0	993.71	966.74	929.10	892.32	860.10	831.81	800.27	767.92	735.55	703.15
62.5	818.45	777.48	743.70	705.74	668.75	638.42	606.03	571.18	539.54	505.17
65.0	638.36	598.24	562.57	521.91	483.53	448.98	414.91	377.07	359.70	356.89
67.5	464.45	424.08	382.88	343.19	302.08	288.54	292.14	289.58	288.41	286.19
70.0	292.94	251.87	226.28	228.74	226.77	224.27	225.61	222.63	218.78	216.24
72.5	166.45	168.79	168.86	169.50	167.16	163.14	160.60	156.88	151.02	147.00
75.0	117.98	116.82	115.96	113.53	109.36	103.46	97.66	92.14	84.75	78.25
77.5	73.14	69.46	65.23	59.66	53.03	45.05	36.65	28.21	19.18	15.71
80.0	31.29	24.40	16.41	12.00	11.02	9.98	8.91	7.85	6.86	5.98
82.5	6.27	5.00	3.77	2.63	1.49	0.36	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
2.5	2933.59	2933.19	2932.84	2932.45	2932.25	2932.02	2931.84	2931.73	2931.67	2931.67
5.0	2904.34	2903.70	2903.17	2902.48	2902.21	2901.85	2901.60	2901.47	2900.48	2900.87
7.5	2873.72	2873.09	2872.65	2872.20	2871.73	2871.43	2871.10	2871.03	2870.99	2871.07
10.0	2841.74	2841.32	2841.05	2840.85	2840.69	2840.73	2840.53	2840.54	2840.58	2839.73
12.5	2808.75	2808.59	2808.61	2808.75	2809.02	2809.32	2809.66	2809.88	2810.12	2810.38
15.0	2774.63	2775.05	2775.46	2776.03	2776.78	2777.52	2778.39	2779.09	2779.57	2779.94
17.5	2735.34	2731.27	2727.75	2724.64	2721.53	2719.91	2718.23	2716.99	2716.10	2715.17
20.0	2666.72	2662.74	2659.39	2656.56	2654.20	2651.75	2650.75	2649.66	2648.93	2648.41
22.5	2596.61	2593.18	2590.16	2587.73	2585.80	2584.24	2583.02	2582.17	2581.73	2581.61
25.0	2525.37	2522.39	2520.11	2518.23	2516.84	2515.86	2515.12	2514.59	2514.39	2514.60
27.5	2452.78	2450.70	2449.09	2448.11	2447.38	2446.98	2446.99	2446.92	2446.99	2447.44
30.0	2379.20	2378.05	2377.36	2377.18	2377.43	2377.79	2378.45	2379.11	2379.58	2380.28
32.5	2304.72	2304.55	2304.96	2298.01	2292.35	2287.67	2283.88	2280.73	2278.14	2276.41
35.0	2210.19	2201.29	2194.04	2187.72	2182.60	2178.13	2175.21	2172.67	2170.50	2168.99
37.5	2096.86	2088.96	2081.28	2076.88	2072.51	2069.13	2066.48	2064.36	2062.79	2061.55
40.0	1982.57	1975.77	1970.04	1965.57	1961.99	1959.42	1957.50	1956.08	1954.85	1954.07
42.5	1866.80	1861.73	1857.18	1853.74	1851.14	1849.39	1848.49	1847.51	1846.92	1846.55
45.0	1750.23	1746.97	1743.79	1741.46	1740.01	1739.18	1739.06	1738.95	1738.98	1738.98
47.5	1633.21	1629.68	1629.89	1620.04	1601.43	1584.70	1570.58	1558.39	1548.38	1540.61
50.0	1484.39	1459.30	1436.18	1414.61	1395.34	1378.04	1363.23	1350.70	1340.38	1332.39
52.5	1280.56	1255.29	1231.42	1209.49	1189.48	1171.76	1156.34	1143.26	1132.20	1124.08
55.0	1077.99	1052.00	1027.45	1004.91	984.24	965.87	949.73	935.93	924.67	916.08
57.5	875.93	848.67	824.19	800.87	779.49	760.34	743.44	728.80	716.93	707.96
60.0	676.04	648.04	621.60	597.32	575.11	555.13	537.33	521.92	509.32	499.91
62.5	475.44	447.67	425.85	423.64	421.24	418.93	416.65	414.27	412.36	411.30
65.0	352.78	354.42	351.10	348.27	345.39	342.67	340.00	337.41	335.22	333.85
67.5	281.55	280.06	276.88	273.32	269.87	266.62	263.54	260.65	258.17	256.39
70.0	210.74	207.94	203.34	198.80	194.65	190.76	187.22	183.97	181.18	179.12
72.5	140.44	135.58	130.14	124.64	119.69	115.10	111.02	107.31	104.24	101.82
75.0	70.86	63.87	57.28	50.78	44.92	39.58	34.93	30.79	27.35	24.56
77.5	14.93	14.19	13.50	12.88	12.44	12.03	11.72	11.38	11.09	10.82

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	5.15	4.36	3.63	2.97	2.38	1.85	1.38	0.97	0.62	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>175.0</b>	<b>177.5</b>	<b>180.0</b>	<b>182.5</b>	<b>185.0</b>	<b>187.5</b>	<b>190.0</b>	<b>192.5</b>	<b>195.0</b>	<b>197.5</b>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2931.73	2931.84	2932.02	2932.07	2932.19	2932.36	2932.58	2932.86	2933.20	2933.59
<b>5.0</b>	2901.27	2901.66	2902.06	2902.14	2902.21	2902.29	2902.36	2903.82	2904.30	2904.93
<b>7.5</b>	2871.27	2871.60	2872.10	2872.33	2872.72	2873.29	2873.73	2874.33	2875.09	2875.84
<b>10.0</b>	2840.61	2841.38	2842.14	2842.37	2842.60	2842.50	2844.04	2844.69	2845.36	2846.26
<b>12.5</b>	2810.83	2811.38	2812.19	2812.66	2813.36	2813.66	2814.18	2814.66	2815.32	2816.08
<b>15.0</b>	2779.92	2781.12	2782.23	2782.69	2782.74	2783.78	2784.00	2784.42	2785.02	2785.62
<b>17.5</b>	2714.77	2714.95	2715.73	2716.65	2717.76	2719.18	2721.02	2723.40	2726.30	2729.60
<b>20.0</b>	2646.30	2647.96	2649.23	2649.78	2649.47	2652.77	2654.74	2657.30	2660.57	2663.28
<b>22.5</b>	2581.36	2581.88	2582.73	2583.82	2584.93	2586.41	2588.49	2591.02	2593.68	2596.81
<b>25.0</b>	2512.63	2514.86	2516.23	2516.80	2516.23	2520.01	2522.11	2524.50	2527.04	2530.06
<b>27.5</b>	2448.08	2448.87	2449.73	2450.80	2451.95	2453.56	2455.61	2457.78	2460.33	2462.96
<b>30.0</b>	2378.79	2381.70	2383.23	2383.65	2382.96	2387.14	2389.13	2391.04	2393.22	2395.82
<b>32.5</b>	2275.73	2275.78	2276.57	2278.07	2280.51	2284.14	2288.36	2293.61	2299.77	2307.39
<b>35.0</b>	2168.63	2167.76	2169.91	2170.40	2174.03	2177.37	2181.31	2186.28	2192.17	2199.28
<b>37.5</b>	2061.49	2061.93	2063.25	2064.92	2067.56	2070.56	2074.32	2078.54	2084.63	2090.59
<b>40.0</b>	1954.25	1953.85	1956.58	1957.21	1960.87	1963.66	1966.62	1970.69	1975.73	1981.53
<b>42.5</b>	1847.03	1848.06	1849.92	1851.80	1854.21	1856.82	1859.05	1862.58	1867.41	1871.96
<b>45.0</b>	1739.82	1739.96	1743.26	1744.08	1747.53	1749.32	1751.57	1754.30	1757.83	1762.04
<b>47.5</b>	1535.69	1533.49	1534.26	1537.22	1542.74	1549.99	1560.03	1573.04	1588.69	1606.92
<b>50.0</b>	1327.18	1322.39	1325.25	1325.80	1333.45	1340.67	1351.03	1364.14	1379.94	1398.33
<b>52.5</b>	1118.62	1116.04	1116.25	1118.86	1124.14	1131.41	1142.11	1155.31	1171.29	1189.87
<b>55.0</b>	910.23	905.23	907.24	907.50	914.89	922.20	933.12	946.46	962.63	981.58
<b>57.5</b>	701.81	698.69	698.23	700.37	705.32	713.03	724.11	737.66	754.03	773.57
<b>60.0</b>	485.57	488.07	489.23	489.13	487.99	503.90	515.13	528.92	545.51	566.09
<b>62.5</b>	410.78	410.89	411.21	411.80	412.86	414.76	417.27	420.21	423.23	427.66
<b>65.0</b>	330.50	332.34	333.18	333.08	332.18	336.77	339.34	342.19	345.63	350.15
<b>67.5</b>	255.44	255.10	255.16	255.67	256.74	258.78	261.31	264.39	268.13	272.77
<b>70.0</b>	175.64	176.67	177.13	177.06	176.52	180.80	183.40	186.68	190.76	195.49
<b>72.5</b>	100.21	99.34	99.11	99.55	100.68	102.78	105.52	109.03	113.32	118.29
<b>75.0</b>	20.93	21.05	21.08	21.06	20.97	24.77	27.67	31.44	35.97	41.16
<b>77.5</b>	10.66	10.57	10.54	10.58	10.68	10.91	11.22	11.67	12.19	12.74
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.99	1.44	1.96
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>200.0</b>	<b>202.5</b>	<b>205.0</b>	<b>207.5</b>	<b>210.0</b>	<b>212.5</b>	<b>215.0</b>	<b>217.5</b>	<b>220.0</b>	<b>222.5</b>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2934.04	2934.53	2935.07	2935.58	2936.17	2936.81	2937.50	2938.24	2939.02	2939.85
<b>5.0</b>	2905.67	2906.52	2907.41	2908.36	2909.41	2910.56	2911.82	2913.23	2914.41	2915.78
<b>7.5</b>	2876.73	2877.78	2878.85	2879.96	2881.24	2882.73	2883.99	2885.48	2887.13	2889.11
<b>10.0</b>	2847.10	2848.14	2849.23	2850.37	2851.73	2852.94	2854.37	2856.30	2857.68	2859.60
<b>12.5</b>	2816.93	2817.84	2818.74	2819.62	2820.71	2821.96	2823.38	2824.50	2826.50	2828.24

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**CANDELA TABULATION - (Cont.)**

15.0	2786.65	2786.68	2787.26	2788.07	2788.83	2789.81	2790.76	2792.47	2793.21	2795.28
17.5	2733.01	2737.03	2741.56	2746.56	2751.89	2756.19	2756.67	2757.12	2757.94	2759.07
20.0	2666.92	2670.96	2675.48	2681.13	2685.90	2691.66	2698.09	2705.45	2712.89	2721.29
22.5	2600.34	2604.33	2608.80	2613.58	2619.07	2624.70	2631.05	2638.14	2645.80	2653.72
25.0	2533.40	2537.29	2541.36	2545.88	2550.94	2556.45	2562.99	2568.94	2576.04	2583.95
27.5	2466.85	2469.66	2473.38	2477.46	2481.92	2486.83	2492.10	2498.19	2504.91	2512.16
30.0	2398.66	2401.91	2404.79	2408.08	2411.76	2415.90	2420.74	2426.06	2431.80	2438.38
32.5	2315.75	2325.19	2335.35	2337.81	2340.73	2344.25	2348.22	2353.54	2357.13	2362.67
35.0	2207.15	2215.87	2225.81	2236.22	2248.56	2262.27	2274.08	2277.06	2280.67	2284.73
37.5	2098.10	2105.81	2114.63	2124.96	2136.52	2150.20	2162.83	2178.18	2195.48	2204.62
40.0	1987.99	1995.01	2003.12	2012.68	2022.88	2034.41	2047.13	2061.82	2076.70	2093.36
42.5	1877.51	1883.50	1890.96	1899.11	1908.15	1918.38	1929.69	1942.43	1956.35	1971.64
45.0	1766.55	1771.52	1777.94	1785.23	1792.38	1800.87	1810.90	1822.07	1835.04	1848.30
47.5	1627.10	1650.29	1663.90	1669.32	1675.30	1682.45	1691.25	1700.32	1711.11	1724.08
50.0	1418.97	1443.28	1468.28	1496.26	1525.84	1558.19	1571.15	1577.60	1587.44	1597.96
52.5	1211.08	1235.25	1261.44	1289.63	1319.86	1352.57	1388.44	1424.39	1460.75	1471.53
55.0	1003.41	1028.20	1054.98	1083.51	1114.37	1147.75	1183.00	1220.45	1259.83	1301.79
57.5	795.95	821.54	848.89	877.97	909.49	943.40	978.51	1016.61	1056.63	1098.56
60.0	588.77	615.16	643.07	672.82	705.32	739.62	775.33	814.13	854.14	896.56
62.5	432.84	438.63	444.02	468.19	501.74	536.16	572.89	612.27	652.91	696.28
65.0	355.79	361.25	366.61	371.92	377.90	381.79	387.18	410.88	453.27	497.63
67.5	278.40	284.08	289.66	294.66	301.66	306.39	312.67	316.94	323.10	326.36
70.0	201.22	207.24	213.01	219.51	226.12	231.87	238.54	244.34	251.18	254.84
72.5	124.14	130.25	136.67	143.79	150.66	158.00	165.35	172.67	180.29	185.95
75.0	47.04	53.57	60.64	68.33	76.22	84.60	92.97	101.74	110.04	118.19
77.5	13.30	13.95	14.65	15.52	16.42	17.41	21.37	31.30	41.14	51.20
80.0	2.55	3.21	3.94	4.78	5.67	6.64	7.67	8.73	9.83	10.96
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
2.5	2940.72	2941.63	2942.58	2943.58	2944.62	2945.61	2946.67	2947.77	2948.90	2950.05
5.0	2917.25	2918.81	2920.47	2922.21	2924.24	2925.71	2927.57	2929.52	2931.54	2933.64
7.5	2890.63	2892.55	2894.63	2896.86	2899.14	2901.54	2904.09	2906.78	2909.61	2912.56
10.0	2861.98	2863.77	2866.06	2868.59	2871.22	2874.04	2877.08	2880.33	2884.13	2887.22
12.5	2830.28	2832.44	2834.71	2837.30	2840.07	2843.11	2846.47	2850.66	2853.92	2858.04
15.0	2796.36	2798.39	2800.61	2803.24	2806.04	2809.09	2812.56	2816.31	2820.45	2824.99
17.5	2760.43	2762.03	2763.98	2766.34	2768.76	2771.41	2775.67	2778.10	2782.20	2786.75
20.0	2722.53	2722.98	2723.97	2725.39	2727.31	2729.74	2732.53	2735.74	2740.44	2743.95
22.5	2662.39	2671.94	2680.69	2681.50	2682.49	2684.08	2686.34	2689.36	2692.10	2697.21
25.0	2592.51	2601.73	2611.81	2622.95	2634.49	2635.63	2636.90	2639.30	2641.73	2645.52
27.5	2520.96	2529.21	2539.08	2549.87	2561.67	2574.52	2582.97	2584.02	2585.96	2589.05
30.0	2445.79	2454.01	2463.04	2473.06	2484.30	2496.83	2510.71	2524.31	2526.05	2527.96
32.5	2368.90	2375.84	2383.86	2393.06	2403.39	2415.17	2428.26	2442.97	2459.57	2461.69
35.0	2289.40	2295.66	2302.80	2310.76	2318.88	2328.92	2341.44	2355.63	2371.93	2390.68
37.5	2207.49	2211.00	2215.81	2222.03	2229.76	2238.92	2250.18	2264.14	2280.33	2298.74
40.0	2112.39	2124.43	2127.37	2131.42	2137.12	2145.50	2155.74	2167.87	2182.70	2200.51
42.5	1988.71	2007.69	2027.95	2037.74	2042.00	2047.83	2056.11	2067.10	2081.08	2097.87
45.0	1864.29	1881.00	1900.50	1921.82	1942.83	1946.59	1953.18	1962.60	1974.51	1989.44
47.5	1737.51	1753.52	1771.05	1790.45	1812.29	1837.41	1846.90	1853.37	1863.39	1877.07
50.0	1610.36	1624.44	1639.78	1657.27	1677.81	1700.33	1726.29	1741.91	1748.64	1761.26



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**CANDELA TABULATION - (Cont.)**

<b>52.5</b>	1482.49	1493.85	1505.31	1523.09	1539.46	1558.39	1582.02	1611.12	1629.60	1637.44
<b>55.0</b>	1345.28	1362.32	1373.49	1384.60	1395.42	1410.54	1432.76	1460.91	1489.79	1503.25
<b>57.5</b>	1141.78	1186.33	1230.54	1240.26	1246.21	1261.29	1283.80	1305.97	1327.61	1354.52
<b>60.0</b>	940.27	983.59	1024.84	1060.57	1097.51	1114.36	1132.58	1150.16	1168.87	1195.67
<b>62.5</b>	738.97	783.23	822.03	861.36	906.30	953.54	983.31	993.13	1010.06	1040.26
<b>65.0</b>	540.49	585.67	625.47	669.73	714.14	761.90	802.55	835.06	856.27	876.62
<b>67.5</b>	345.32	391.60	436.48	481.29	526.80	572.91	611.22	656.70	691.14	718.30
<b>70.0</b>	261.64	264.05	267.80	292.84	343.51	389.53	434.77	477.32	517.54	557.96
<b>72.5</b>	193.17	196.98	200.97	200.80	202.26	216.18	265.64	309.49	355.92	392.41
<b>75.0</b>	126.39	132.64	136.15	141.60	144.62	148.05	148.96	153.48	201.89	242.59
<b>77.5</b>	60.57	69.65	76.11	83.18	90.29	95.60	98.85	103.15	104.44	104.27
<b>80.0</b>	12.07	13.09	18.32	28.08	37.32	45.58	52.28	58.25	62.01	65.05
<b>82.5</b>	1.63	2.87	4.08	5.30	6.66	8.10	9.54	16.44	23.58	29.29
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	2.76	4.25
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<b>250.0</b>	<b>252.5</b>	<b>255.0</b>	<b>257.5</b>	<b>260.0</b>	<b>262.5</b>	<b>265.0</b>	<b>267.5</b>	<b>270.0</b>	<b>272.5</b>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2951.23	2952.44	2953.67	2954.92	2956.18	2957.46	2958.75	2960.05	2961.36	2961.25
<b>5.0</b>	2935.80	2938.04	2940.34	2942.70	2945.12	2947.58	2950.09	2952.65	2955.24	2955.04
<b>7.5</b>	2915.86	2918.71	2921.94	2925.29	2928.76	2932.34	2936.02	2939.80	2943.67	2943.37
<b>10.0</b>	2890.92	2894.82	2898.92	2903.22	2907.70	2912.36	2917.19	2922.17	2927.31	2926.92
<b>12.5</b>	2862.46	2867.17	2872.72	2877.20	2882.60	2888.27	2894.21	2900.39	2906.82	2906.30
<b>15.0</b>	2830.66	2834.81	2840.23	2846.07	2852.31	2858.94	2865.94	2873.31	2881.02	2880.40
<b>17.5</b>	2791.74	2797.27	2803.35	2810.85	2816.79	2824.26	2832.26	2840.77	2849.77	2849.10
<b>20.0</b>	2749.01	2755.30	2761.08	2768.10	2775.82	2784.20	2793.24	2802.92	2813.22	2812.57
<b>22.5</b>	2703.55	2707.87	2714.36	2721.72	2729.88	2738.89	2748.78	2759.52	2771.09	2770.50
<b>25.0</b>	2650.03	2655.63	2664.06	2669.80	2678.48	2688.25	2699.10	2711.01	2723.95	2723.41
<b>27.5</b>	2593.28	2598.67	2605.14	2612.98	2623.20	2632.50	2644.22	2657.28	2671.63	2671.08
<b>30.0</b>	2531.98	2536.09	2542.47	2550.45	2560.06	2571.31	2584.17	2598.59	2614.54	2613.89
<b>32.5</b>	2464.28	2468.41	2474.35	2482.18	2491.98	2503.57	2517.07	2532.50	2549.83	2549.22
<b>35.0</b>	2392.42	2396.06	2401.42	2410.49	2418.29	2430.06	2444.21	2460.68	2479.43	2478.80
<b>37.5</b>	2315.62	2317.56	2322.50	2328.77	2338.17	2350.10	2364.62	2381.89	2401.88	2401.41
<b>40.0</b>	2221.45	2234.77	2237.77	2243.74	2252.56	2264.48	2279.66	2298.08	2319.68	2319.26
<b>42.5</b>	2117.59	2140.65	2147.08	2151.75	2159.85	2173.66	2187.25	2206.56	2229.65	2229.77
<b>45.0</b>	2007.82	2030.05	2053.60	2054.03	2061.55	2073.06	2088.74	2109.23	2133.86	2134.39
<b>47.5</b>	1893.62	1914.52	1940.08	1952.60	1957.15	1968.29	1984.26	2005.35	2031.54	2032.51
<b>50.0</b>	1775.94	1793.72	1817.56	1841.85	1847.12	1857.15	1873.04	1894.88	1922.63	1923.85
<b>52.5</b>	1647.33	1663.59	1687.67	1716.56	1726.19	1734.52	1750.45	1774.12	1805.52	1807.09
<b>55.0</b>	1509.59	1524.38	1543.59	1567.26	1586.90	1594.48	1609.74	1632.98	1664.85	1666.96
<b>57.5</b>	1371.71	1383.46	1399.06	1421.25	1451.34	1459.93	1473.84	1496.40	1527.82	1529.55
<b>60.0</b>	1232.22	1247.47	1260.55	1280.83	1308.62	1327.01	1339.46	1361.97	1394.69	1397.57
<b>62.5</b>	1071.10	1110.18	1115.18	1126.84	1157.87	1186.77	1202.12	1218.63	1253.81	1258.27
<b>65.0</b>	906.07	930.98	970.29	984.48	998.58	1017.83	1033.97	1058.48	1096.60	1102.74
<b>67.5</b>	740.63	773.66	809.23	824.38	838.55	861.80	879.78	903.80	945.50	944.64
<b>70.0</b>	584.85	611.55	640.98	675.73	682.80	700.25	726.49	745.76	781.43	780.77
<b>72.5</b>	429.11	459.05	483.79	509.73	529.60	543.30	568.26	587.91	623.87	625.88
<b>75.0</b>	282.33	312.40	337.56	359.95	384.03	403.25	426.54	443.10	468.83	473.69
<b>77.5</b>	148.14	182.70	210.19	229.82	251.15	272.61	288.87	307.44	326.83	338.40
<b>80.0</b>	66.07	69.42	101.31	123.88	137.62	156.89	172.85	191.27	203.11	215.81
<b>82.5</b>	33.25	34.98	34.59	41.24	60.64	69.02	82.47	98.30	106.56	117.58
<b>85.0</b>	5.73	9.58	13.42	15.78	16.41	22.12	27.81	34.80	38.55	39.23
<b>87.5</b>	0.00	0.00	0.00	1.65	5.25	8.26	8.55	9.00	4.80	4.03

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CANDELA TABULATION - (Cont.)

90.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.81 0.00

Vert. Horizontal Angles  
Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
2.5	2961.14	2961.05	2960.95	2960.86	2960.78	2960.70	2960.63	2960.56	2960.50	2960.45
5.0	2954.86	2954.73	2954.62	2954.55	2954.51	2954.51	2954.54	2954.61	2954.71	2954.84
7.5	2943.16	2943.04	2942.99	2943.03	2943.16	2943.36	2943.91	2943.95	2944.27	2944.66
10.0	2926.67	2926.56	2926.59	2926.76	2927.08	2927.53	2928.12	2928.85	2930.12	2930.60
12.5	2906.01	2905.96	2906.13	2906.53	2907.79	2907.92	2908.83	2909.95	2911.28	2913.41
15.0	2880.11	2880.14	2880.50	2881.19	2882.20	2883.53	2886.02	2886.97	2888.99	2891.31
17.5	2848.89	2849.16	2849.88	2852.05	2852.60	2854.49	2856.80	2859.53	2862.53	2865.78
20.0	2812.51	2813.05	2814.17	2815.86	2818.13	2821.51	2824.20	2827.94	2833.01	2836.63
22.5	2770.70	2771.69	2773.47	2776.00	2779.18	2783.08	2788.96	2792.65	2798.20	2804.19
25.0	2723.86	2725.30	2727.74	2731.15	2737.36	2740.59	2746.36	2752.94	2759.98	2768.05
27.5	2671.80	2673.76	2678.03	2681.18	2686.47	2692.86	2700.35	2708.72	2717.97	2727.94
30.0	2614.72	2617.04	2620.85	2626.15	2632.83	2640.72	2650.53	2660.20	2671.59	2683.28
32.5	2550.49	2553.62	2558.56	2565.10	2573.40	2583.28	2594.53	2607.03	2620.69	2618.87
35.0	2480.39	2484.21	2490.24	2500.05	2508.42	2520.29	2533.73	2548.87	2548.14	2549.05
37.5	2403.61	2408.45	2415.75	2425.45	2438.09	2451.70	2467.99	2470.77	2471.99	2474.96
40.0	2321.97	2327.81	2336.75	2348.45	2362.27	2378.69	2386.58	2387.89	2391.46	2396.89
42.5	2233.57	2242.90	2251.58	2265.47	2282.16	2297.06	2298.31	2301.86	2307.38	2315.53
45.0	2139.19	2148.20	2161.33	2177.80	2200.55	2202.33	2205.45	2211.57	2220.21	2231.55
47.5	2038.49	2049.37	2064.61	2085.94	2099.70	2102.12	2108.50	2117.51	2129.54	2144.07
50.0	1930.84	1943.52	1961.72	1984.67	1991.04	1996.67	2007.69	2020.85	2035.44	2053.69
52.5	1815.94	1831.39	1852.01	1871.44	1877.11	1885.48	1899.08	1916.59	1936.90	1948.23
55.0	1678.16	1698.23	1726.52	1741.12	1750.78	1766.19	1786.72	1810.37	1822.59	1824.94
57.5	1540.17	1560.39	1588.14	1595.27	1610.09	1632.25	1660.75	1684.23	1687.49	1694.44
60.0	1410.32	1432.43	1449.76	1458.89	1476.10	1500.12	1523.83	1532.37	1544.81	1557.76
62.5	1279.74	1301.98	1313.20	1326.54	1348.10	1376.95	1379.65	1390.04	1404.11	1421.00
65.0	1124.71	1157.02	1167.40	1188.76	1222.75	1228.15	1237.27	1251.57	1270.08	1291.24
67.5	960.08	983.50	1010.49	1040.14	1063.92	1070.31	1090.25	1114.60	1134.81	1140.96
70.0	799.58	823.48	857.72	899.37	896.63	912.75	933.95	961.70	974.81	986.67
72.5	647.31	670.61	710.92	721.45	738.35	752.10	777.07	791.92	813.31	835.85
75.0	492.27	523.57	555.96	564.81	579.70	597.56	611.74	635.12	661.19	677.10
77.5	359.68	388.13	406.15	426.19	433.93	446.98	464.54	487.67	498.36	497.00
80.0	238.12	256.22	275.96	291.16	301.61	312.54	320.71	327.19	329.18	326.89
82.5	131.17	148.60	159.77	171.10	182.00	188.32	186.72	181.58	175.01	163.93
85.0	57.97	65.20	74.77	83.59	85.99	79.98	66.68	52.47	37.93	19.28
87.5	12.25	19.00	18.60	9.76	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles  
Angles

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
2.5	2960.40	2960.36	2960.37	2960.29	2960.23	2960.18	2960.13	2960.09	2960.06	2960.03
5.0	2955.01	2955.21	2955.77	2955.67	2955.80	2955.96	2956.14	2956.34	2956.56	2956.89
7.5	2945.11	2945.63	2946.22	2946.82	2947.38	2948.09	2948.67	2949.63	2950.05	2950.72
10.0	2931.59	2932.62	2933.81	2935.06	2936.29	2937.60	2939.31	2940.24	2941.49	2943.14
12.5	2914.41	2916.14	2918.04	2920.07	2922.12	2924.31	2926.52	2928.72	2931.06	2933.15
15.0	2893.88	2896.47	2899.29	2902.25	2905.28	2908.54	2911.68	2915.59	2918.22	2921.97
17.5	2870.53	2873.17	2877.18	2881.39	2885.76	2890.23	2894.57	2899.03	2903.60	2908.08
20.0	2841.47	2846.59	2852.01	2857.63	2863.37	2869.17	2875.12	2881.23	2880.32	2879.97
22.5	2810.40	2817.05	2824.02	2831.17	2839.11	2838.61	2838.15	2838.05	2838.07	2838.61

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**CANDELA TABULATION - (Cont.)**

25.0	2775.93	2784.63	2793.55	2792.54	2791.82	2791.73	2792.10	2793.09	2794.53	2796.00
27.5	2738.16	2741.37	2740.51	2740.51	2741.26	2742.58	2744.94	2746.17	2748.74	2751.85
30.0	2682.96	2683.16	2684.06	2685.40	2687.47	2690.31	2693.76	2697.51	2701.44	2705.75
32.5	2619.34	2621.06	2624.10	2626.75	2631.08	2635.70	2640.82	2646.57	2652.57	2659.94
35.0	2551.43	2554.99	2560.19	2566.85	2572.56	2578.84	2586.03	2593.59	2601.63	2609.88
37.5	2479.51	2485.31	2492.53	2501.02	2509.41	2518.82	2528.51	2538.91	2544.28	2542.85
40.0	2404.10	2412.61	2422.31	2432.92	2444.69	2456.98	2462.21	2460.78	2461.49	2463.24
42.5	2325.59	2336.79	2349.55	2363.37	2371.66	2371.74	2372.82	2375.06	2379.29	2381.04
45.0	2244.03	2258.90	2274.77	2275.68	2276.58	2278.72	2282.40	2287.02	2293.24	2298.15
47.5	2160.65	2174.05	2173.80	2175.82	2180.25	2184.22	2190.30	2197.50	2205.63	2214.08
50.0	2065.06	2065.68	2068.79	2073.26	2080.14	2087.90	2097.05	2106.96	2117.58	2128.92
52.5	1949.88	1954.23	1960.70	1969.88	1979.07	1990.39	2002.71	2015.53	2028.88	2029.05
55.0	1830.79	1839.75	1850.63	1863.07	1877.41	1891.77	1903.31	1902.74	1903.20	1904.77
57.5	1708.07	1722.23	1738.21	1755.50	1769.91	1769.56	1770.66	1772.96	1776.17	1780.29
60.0	1576.02	1601.37	1623.55	1625.80	1627.32	1631.18	1636.65	1642.68	1648.86	1655.40
62.5	1440.65	1461.81	1473.54	1477.48	1482.54	1491.31	1501.34	1511.92	1521.27	1530.53
65.0	1297.98	1307.24	1319.96	1330.94	1338.22	1349.41	1364.49	1379.95	1393.64	1405.75
67.5	1152.63	1165.70	1172.30	1185.52	1196.33	1207.21	1227.32	1230.87	1224.02	1213.67
70.0	1001.10	1025.62	1039.04	1043.56	1047.58	1036.40	1031.16	1027.29	1020.65	1010.66
72.5	852.40	882.31	887.43	863.65	850.92	840.20	831.28	827.15	819.05	809.03
75.0	687.41	684.32	687.08	675.24	658.09	647.20	637.39	631.25	619.86	609.10
77.5	500.83	493.48	491.78	481.68	468.21	456.66	444.64	434.05	422.95	410.08
80.0	320.45	311.27	299.76	288.33	280.80	264.86	247.50	226.83	207.80	186.50
82.5	150.86	136.14	119.06	100.83	81.94	57.93	33.50	8.09	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97	2961.97
2.5	2960.01	2959.99	2959.97	2959.96	2959.99	2959.94	2959.88	2959.83	2959.78	2959.73
5.0	2956.89	2956.95	2957.01	2957.09	2957.19	2957.25	2957.29	2957.33	2957.39	2957.50
7.5	2951.43	2952.26	2952.66	2953.15	2953.65	2954.02	2954.22	2954.43	2954.64	2954.77
10.0	2944.02	2945.24	2946.50	2947.61	2948.76	2949.73	2950.47	2951.24	2951.57	2951.92
12.5	2935.33	2937.28	2939.17	2940.97	2942.71	2944.36	2945.91	2947.18	2948.18	2948.88
15.0	2924.67	2927.95	2930.79	2933.59	2936.02	2938.35	2940.92	2942.56	2944.33	2945.58
17.5	2912.62	2916.78	2917.62	2917.46	2917.04	2916.65	2916.34	2916.15	2916.04	2915.90
20.0	2879.61	2879.71	2879.98	2880.74	2880.51	2880.86	2881.10	2881.26	2881.82	2881.78
22.5	2839.36	2840.16	2841.48	2842.37	2843.30	2844.35	2845.34	2846.09	2846.71	2847.36
25.0	2797.93	2799.63	2801.57	2803.55	2805.67	2807.41	2809.12	2810.64	2811.81	2812.85
27.5	2754.90	2757.85	2760.99	2764.18	2767.18	2770.22	2773.13	2774.93	2776.78	2778.24
30.0	2710.58	2715.38	2719.66	2723.96	2728.33	2732.48	2735.98	2738.76	2741.43	2743.57
32.5	2664.69	2671.32	2677.72	2683.26	2688.71	2687.66	2686.52	2685.44	2684.53	2683.52
35.0	2618.00	2618.66	2618.25	2617.75	2617.32	2616.62	2616.43	2616.44	2615.79	2615.46
37.5	2542.70	2544.14	2543.19	2544.34	2544.90	2545.36	2546.36	2546.75	2547.47	2547.21
40.0	2464.10	2466.02	2467.87	2470.02	2472.35	2473.89	2475.49	2477.01	2478.20	2479.00
42.5	2384.55	2388.33	2391.96	2395.48	2399.08	2402.13	2404.72	2407.09	2409.72	2410.52
45.0	2304.11	2309.75	2315.49	2321.44	2325.54	2330.08	2333.86	2337.07	2339.96	2342.11
47.5	2223.07	2230.66	2238.30	2245.45	2251.92	2254.16	2251.62	2249.43	2247.53	2245.57
50.0	2141.53	2148.68	2146.97	2145.67	2144.34	2143.82	2141.99	2140.67	2139.48	2138.29
52.5	2030.62	2030.05	2030.50	2030.92	2031.48	2031.99	2032.16	2031.90	2031.47	2031.04
55.0	1908.03	1910.55	1913.49	1915.80	1918.32	1920.44	1922.11	1922.99	1923.33	1923.65
57.5	1785.56	1790.72	1796.13	1800.68	1804.78	1808.63	1811.90	1813.96	1815.10	1816.25
60.0	1662.99	1670.58	1678.10	1685.07	1690.84	1696.65	1701.55	1705.73	1706.86	1708.89

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**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	1540.38	1550.62	1560.11	1569.41	1572.70	1563.27	1554.14	1544.89	1535.42	1528.03
<b>65.0</b>	1407.55	1398.26	1388.07	1378.29	1367.92	1358.43	1350.36	1340.87	1331.45	1323.45
<b>67.5</b>	1203.08	1194.25	1184.23	1174.26	1164.11	1153.93	1145.67	1137.01	1127.68	1119.29
<b>70.0</b>	999.94	991.26	981.82	970.96	960.59	950.43	941.83	933.30	924.28	915.16
<b>72.5</b>	797.99	789.09	779.76	768.52	757.72	746.31	738.47	729.80	720.44	711.07
<b>75.0</b>	597.18	587.63	578.78	566.85	555.80	543.20	534.70	526.45	517.01	507.15
<b>77.5</b>	397.76	383.24	368.79	351.02	333.86	317.10	303.59	291.49	279.24	267.72
<b>80.0</b>	165.66	145.70	127.10	107.99	89.82	72.99	58.09	44.78	32.94	22.77
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<b><u>350.0</u></b>	<b><u>352.5</u></b>	<b><u>355.0</u></b>	<b><u>357.5</u></b>	<b><u>360.0</u></b>
<b>0.0</b>	2961.97	2961.97	2961.97	2961.97	2961.97
<b>2.5</b>	2959.69	2959.65	2959.62	2959.59	2959.57
<b>5.0</b>	2957.43	2957.35	2957.28	2957.21	2957.16
<b>7.5</b>	2954.93	2955.07	2954.95	2954.85	2954.76
<b>10.0</b>	2952.22	2952.49	2952.65	2952.49	2952.35
<b>12.5</b>	2949.39	2949.82	2950.32	2950.14	2949.95
<b>15.0</b>	2946.43	2947.09	2947.66	2947.79	2947.55
<b>17.5</b>	2915.61	2914.98	2914.63	2914.33	2913.86
<b>20.0</b>	2881.73	2881.38	2880.98	2880.70	2880.16
<b>22.5</b>	2847.89	2847.82	2847.39	2847.06	2846.47
<b>25.0</b>	2813.83	2814.13	2813.81	2813.40	2812.78
<b>27.5</b>	2779.56	2780.35	2780.22	2779.70	2779.09
<b>30.0</b>	2745.33	2746.60	2746.65	2746.05	2745.39
<b>32.5</b>	2682.68	2682.29	2680.97	2679.52	2678.54
<b>35.0</b>	2614.93	2614.67	2613.98	2612.67	2611.69
<b>37.5</b>	2547.41	2547.14	2546.99	2545.81	2544.85
<b>40.0</b>	2479.27	2479.63	2479.70	2478.94	2478.00
<b>42.5</b>	2411.44	2412.30	2412.46	2412.08	2411.15
<b>45.0</b>	2343.85	2344.47	2345.20	2345.20	2344.30
<b>47.5</b>	2243.75	2241.98	2240.78	2239.55	2238.10
<b>50.0</b>	2137.08	2135.68	2134.67	2133.48	2131.90
<b>52.5</b>	2030.40	2029.39	2028.58	2027.41	2025.70
<b>55.0</b>	1923.57	1923.09	1922.64	1921.32	1919.49
<b>57.5</b>	1816.70	1816.80	1816.36	1815.17	1813.29
<b>60.0</b>	1709.82	1710.51	1710.28	1709.05	1707.09
<b>62.5</b>	1520.70	1515.16	1510.40	1506.54	1503.82
<b>65.0</b>	1317.14	1311.53	1306.84	1303.09	1300.55
<b>67.5</b>	1113.22	1107.89	1103.28	1099.64	1097.27
<b>70.0</b>	909.53	904.31	899.71	896.19	894.00
<b>72.5</b>	705.87	700.57	696.13	692.73	690.72
<b>75.0</b>	502.23	496.94	492.54	489.27	487.45
<b>77.5</b>	260.26	253.62	248.56	245.21	243.73
<b>80.0</b>	14.63	8.23	3.65	0.91	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6002HTMOWT50120-277V.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1083.76	13.50	13.50
0-30	2316.99	28.80	28.80
0-40	3824.36	47.50	47.50
0-60	6752.58	83.80	83.80
0-80	8028.94	99.70	99.70
0-90	8055.95	100.00	100.00
10-90	7776.91	96.60	96.50
20-40	2740.6	34.00	34.00
20-50	4311.97	53.50	53.50
40-70	3835.73	47.60	47.60
60-80	1276.37	15.80	15.80
70-80	368.86	4.60	4.60
80-90	27.01	0.30	0.30
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	8055.95	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	279.05
10-20	804.71
20-30	1233.23
30-40	1507.37
40-50	1571.36
50-60	1356.85
60-70	907.51
70-80	368.86
80-90	27.01
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**IES INDOOR REPORT**  
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**UGR TABLE - CORRECTED**

Reflectances

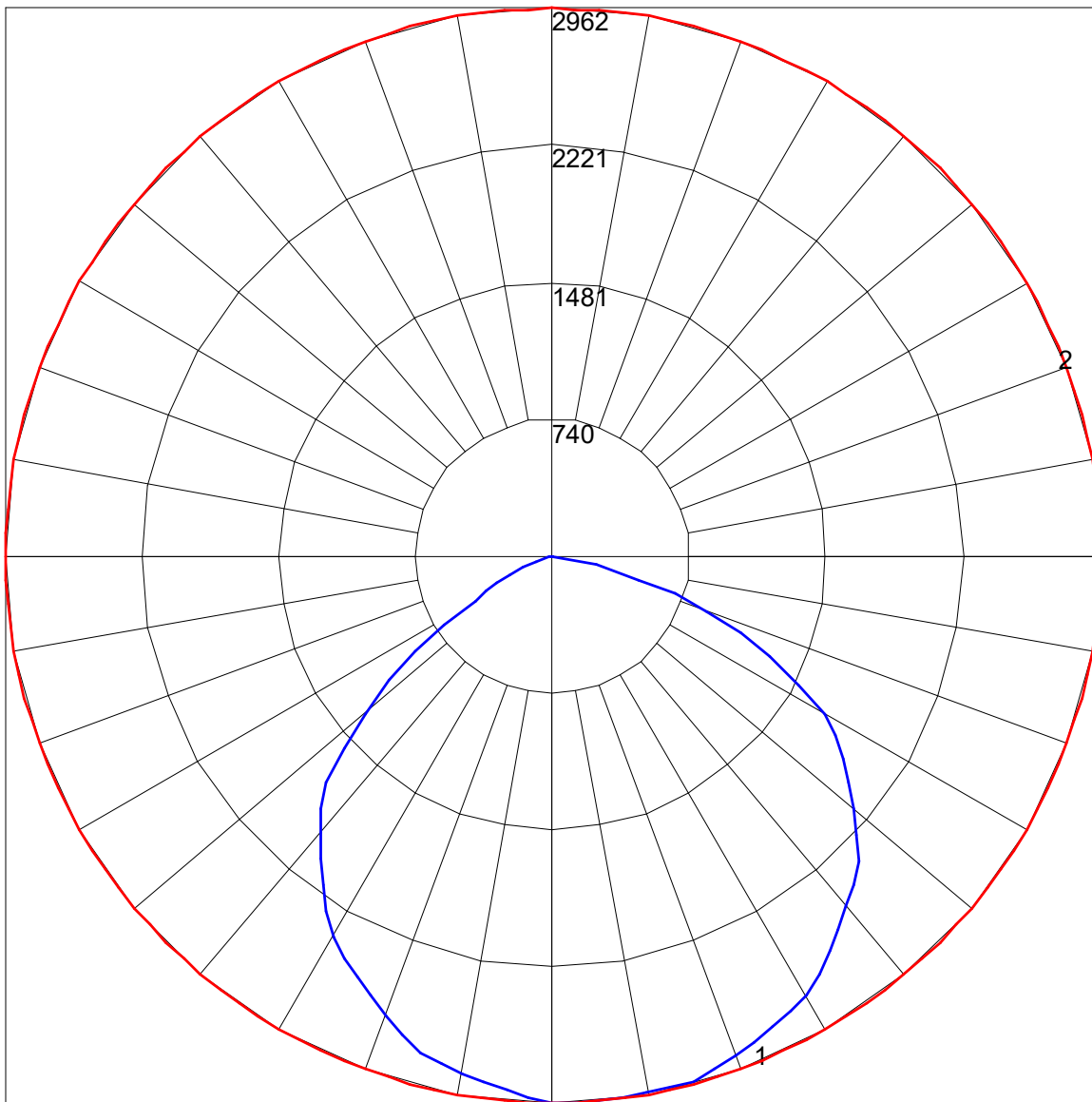
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	15.8	17.5	16.2	17.8	18.1	7.2	7.2	7.2	7.2	7.2
	3H	17.4	18.9	17.8	19.2	19.6	7.2	7.2	7.2	7.2	7.2
	4H	17.8	19.2	18.2	19.6	19.9	7.2	7.2	7.2	7.2	7.2
	6H	17.9	19.1	18.3	19.5	19.9	7.2	7.2	7.2	7.2	7.2
	8H	17.8	19.0	18.2	19.4	19.8	7.2	7.2	7.2	7.2	7.2
	12H	17.8	19.0	18.2	19.3	19.8	7.2	7.2	7.2	7.2	7.2
4H	2H	16.0	17.4	16.4	17.7	18.1	8.9	10.3	9.3	10.6	11.0
	3H	17.9	19.0	18.3	19.4	19.8	9.6	10.7	10.0	11.1	11.5
	4H	18.3	19.4	18.8	19.8	20.2	9.6	10.6	10.0	11.0	11.5
	6H	18.4	19.3	18.8	19.7	20.2	9.5	10.4	10.0	10.9	11.3
	8H	18.3	19.2	18.8	19.6	20.1	9.5	10.3	10.0	10.8	11.2
	12H	18.3	19.1	18.8	19.5	20.0	9.5	10.2	10.0	10.7	11.2
8H	4H	18.3	19.1	18.8	19.6	20.1	10.7	11.5	11.2	12.0	12.4
	6H	18.4	19.0	18.8	19.5	20.0	10.6	11.3	11.1	11.8	12.3
	8H	18.3	18.9	18.8	19.4	19.9	10.6	11.2	11.1	11.7	12.2
	12H	18.3	18.8	18.8	19.3	19.9	10.6	11.1	11.1	11.6	12.2
12H	4H	18.3	19.0	18.8	19.5	20.0	10.7	11.4	11.2	11.9	12.4
	6H	18.3	18.9	18.8	19.4	19.9	10.6	11.2	11.1	11.7	12.2
	8H	18.3	18.8	18.8	19.3	19.9	10.6	11.1	11.1	11.6	12.2

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 2961.97 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)