



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS6004HTMOWT50120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE] 2021-05-14

[ISSUEDATE] 2021-05-14 10:56:53

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] HZCAS6004HTMOWT50120-277V

[LAMP] LED

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

### CHARACTERISTICS

Lumens Per Lamp	9035 (1 lamp)
Total Lamp Lumens	9035
Luminaire Lumens	9037
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	59.6037
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.17 m
Luminous Width (90-270)	0.44 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4266	4707	6084
55	2536	3809	5607
65	1080	1838	4713
75	87	609	3150
85	0	0	488

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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>	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3111.94	3111.93	3112.01	3112.19	3112.47	3112.84	3113.30	3113.85	3114.50	3115.21
<b>5.0</b>	3061.86	3061.86	3062.05	3062.43	3063.00	3063.68	3064.41	3065.34	3066.44	3067.61
<b>7.5</b>	3011.78	3011.82	3012.13	3012.72	3013.30	3014.12	3015.13	3016.41	3017.82	3019.52
<b>10.0</b>	2961.70	2961.79	2962.25	2962.75	2963.47	2964.42	2965.51	2966.97	2968.65	2970.69
<b>12.5</b>	2911.62	2911.78	2912.31	2912.74	2913.49	2914.33	2915.56	2917.16	2918.94	2920.90
<b>15.0</b>	2861.53	2861.80	2862.23	2862.66	2863.19	2864.07	2865.40	2866.78	2868.44	2870.09
<b>17.5</b>	2772.16	2772.61	2773.58	2775.11	2777.27	2780.33	2784.02	2788.35	2792.78	2798.69
<b>20.0</b>	2682.79	2683.19	2684.03	2685.48	2687.74	2690.81	2694.50	2698.22	2703.48	2708.90
<b>22.5</b>	2593.42	2593.71	2594.32	2595.84	2598.06	2600.91	2604.31	2608.33	2612.97	2618.27
<b>25.0</b>	2504.05	2504.18	2504.76	2506.08	2508.09	2510.66	2513.77	2517.51	2521.88	2527.04
<b>27.5</b>	2414.68	2414.58	2415.01	2416.16	2417.87	2420.10	2422.88	2426.20	2430.31	2435.26
<b>30.0</b>	2325.31	2324.97	2325.26	2326.16	2327.50	2329.29	2331.61	2334.56	2338.34	2342.68
<b>32.5</b>	2195.61	2195.55	2196.94	2199.64	2203.36	2208.32	2214.71	2222.32	2231.43	2241.75
<b>35.0</b>	2065.91	2065.76	2067.07	2069.51	2073.06	2077.83	2083.87	2090.88	2100.10	2110.01
<b>37.5</b>	1936.21	1935.97	1937.15	1939.37	1942.69	1947.11	1952.94	1959.98	1968.48	1977.82
<b>40.0</b>	1806.50	1806.17	1807.13	1809.21	1812.11	1816.33	1821.64	1828.47	1836.36	1845.41
<b>42.5</b>	1676.80	1676.38	1677.12	1678.99	1681.54	1685.33	1690.24	1696.70	1704.10	1712.83
<b>45.0</b>	1547.09	1546.57	1547.12	1548.61	1550.92	1554.34	1558.76	1564.79	1571.75	1580.20
<b>47.5</b>	1346.82	1347.06	1349.83	1355.26	1363.26	1373.78	1386.71	1402.48	1420.78	1441.26
<b>50.0</b>	1146.54	1146.67	1149.45	1155.16	1163.72	1174.44	1187.91	1204.52	1223.61	1244.22
<b>52.5</b>	946.26	946.47	949.00	955.04	964.17	975.26	989.44	1007.09	1026.45	1047.26
<b>55.0</b>	745.98	746.18	748.68	755.27	765.15	776.26	791.27	809.99	829.43	850.62
<b>57.5</b>	545.70	545.86	548.35	555.46	565.96	577.41	593.49	613.11	632.51	654.47
<b>60.0</b>	345.43	345.55	348.06	355.75	366.88	378.68	395.98	416.40	435.77	459.06
<b>62.5</b>	289.79	288.72	287.52	288.51	290.09	290.02	293.07	295.57	295.06	296.91
<b>65.0</b>	234.14	233.29	232.50	233.58	235.12	235.62	238.85	240.98	241.15	243.96
<b>67.5</b>	178.50	177.89	177.49	178.64	180.16	181.27	184.58	186.63	187.76	191.18
<b>70.0</b>	122.86	122.50	122.50	123.76	125.32	126.97	130.25	132.51	134.63	138.49
<b>72.5</b>	67.22	67.13	67.53	68.87	70.59	72.66	75.88	78.66	81.72	85.86
<b>75.0</b>	11.57	11.77	12.56	13.96	15.95	18.45	21.58	25.04	28.98	33.45
<b>77.5</b>	5.79	5.76	5.79	5.87	6.01	6.19	6.41	6.67	7.00	7.35
<b>80.0</b>	0.00	0.02	0.09	0.19	0.34	0.53	0.76	1.03	1.34	1.69
<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>	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3116.01	3116.83	3117.75	3118.74	3119.82	3120.99	3122.23	3123.55	3124.95	3126.41
<b>5.0</b>	3069.13	3070.65	3072.34	3074.21	3076.25	3078.44	3080.71	3083.13	3085.72	3088.46
<b>7.5</b>	3021.41	3023.49	3025.85	3028.45	3031.03	3033.87	3036.98	3040.28	3043.67	3048.96
<b>10.0</b>	2972.86	2975.19	2977.81	2980.60	2983.66	2987.04	2990.56	2994.45	2998.65	3002.96
<b>12.5</b>	2923.06	2925.44	2928.11	2931.03	2934.28	2937.69	2941.57	2945.64	2950.20	2955.08
<b>15.0</b>	2872.06	2874.31	2876.62	2879.34	2882.33	2885.85	2889.66	2894.01	2898.64	2903.90
<b>17.5</b>	2804.82	2811.46	2818.98	2825.64	2828.01	2831.73	2835.46	2839.62	2844.20	2849.24
<b>20.0</b>	2715.03	2722.01	2729.91	2738.54	2748.11	2758.69	2769.77	2782.63	2786.41	2790.96
<b>22.5</b>	2624.45	2631.58	2639.48	2648.24	2657.70	2668.11	2679.51	2691.64	2705.56	2720.25
<b>25.0</b>	2533.13	2539.93	2547.58	2555.96	2565.27	2574.24	2587.03	2599.49	2613.18	2628.32
<b>27.5</b>	2440.80	2447.09	2454.07	2461.90	2470.86	2480.99	2491.92	2504.30	2518.05	2531.34
<b>30.0</b>	2347.51	2352.96	2359.17	2366.62	2374.82	2383.98	2394.59	2406.37	2419.53	2434.30

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**CANDELA TABULATION - (Cont.)**

32.5	2253.27	2257.67	2263.34	2269.58	2275.91	2285.23	2294.73	2305.71	2318.27	2332.45
35.0	2121.10	2133.66	2147.56	2161.76	2176.99	2184.07	2192.53	2202.48	2212.73	2227.33
37.5	1987.67	2000.95	2014.05	2028.93	2044.94	2062.64	2082.09	2096.80	2107.07	2119.06
40.0	1856.03	1867.46	1880.26	1894.31	1909.71	1926.79	1945.47	1966.22	1988.70	2007.28
42.5	1722.83	1733.79	1745.86	1759.08	1773.73	1789.79	1810.83	1827.22	1848.46	1871.77
45.0	1589.49	1599.81	1610.97	1623.33	1635.72	1651.78	1668.70	1686.80	1706.85	1727.87
47.5	1456.11	1464.34	1475.73	1487.05	1499.20	1513.22	1528.44	1545.33	1562.99	1581.27
50.0	1267.14	1292.20	1318.85	1346.73	1361.16	1373.79	1387.70	1402.24	1418.31	1435.68
52.5	1070.87	1096.73	1123.69	1151.91	1182.73	1214.52	1245.84	1258.45	1271.60	1287.46
55.0	875.42	901.96	929.16	958.56	990.08	1021.24	1055.37	1087.56	1120.35	1138.38
57.5	680.78	707.05	735.04	766.25	798.55	832.36	866.15	899.77	933.27	967.40
60.0	486.56	513.92	543.38	576.03	609.94	644.45	679.82	715.25	750.42	786.82
62.5	299.72	320.89	352.42	386.78	422.08	459.03	496.85	534.15	572.36	611.31
65.0	246.40	247.01	249.02	251.50	252.87	276.22	316.66	356.82	398.31	439.25
67.5	193.58	195.25	198.23	200.99	203.28	206.77	208.99	211.15	228.15	272.49
70.0	141.29	144.09	147.77	151.17	154.72	158.65	161.52	164.97	168.35	171.91
72.5	89.44	93.36	97.79	102.02	106.70	111.28	115.31	119.79	124.05	127.79
75.0	38.01	42.95	48.21	53.48	59.12	64.64	69.94	75.83	80.82	85.37
77.5	7.76	8.23	8.75	9.32	11.96	18.59	25.23	31.87	38.47	44.39
80.0	2.09	2.53	3.02	3.56	4.15	4.78	5.47	6.21	7.02	7.88
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.95	1.74
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>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	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
2.5	3127.83	3129.53	3131.19	3132.88	3134.63	3136.44	3138.30	3140.21	3142.17	3144.17
5.0	3091.35	3094.28	3097.44	3100.61	3103.91	3107.33	3110.88	3114.54	3118.31	3122.18
7.5	3051.20	3055.06	3059.58	3064.04	3068.71	3073.61	3078.71	3083.62	3089.46	3095.04
10.0	3007.64	3012.14	3017.91	3023.43	3030.07	3035.49	3041.94	3048.55	3055.45	3062.65
12.5	2960.26	2965.92	2971.91	2978.29	2985.13	2992.36	2999.85	3007.77	3016.11	3023.98
15.0	2909.39	2915.49	2921.96	2928.91	2935.96	2944.40	2952.89	2961.97	2971.54	2981.52
17.5	2854.79	2860.97	2867.65	2874.90	2882.90	2891.52	2900.90	2910.88	2921.43	2932.73
20.0	2796.34	2802.54	2809.33	2816.79	2825.05	2834.11	2844.03	2854.61	2866.13	2878.53
22.5	2734.71	2740.51	2747.13	2754.55	2762.79	2772.04	2782.18	2793.34	2805.62	2818.88
25.0	2644.68	2662.26	2680.95	2687.98	2696.14	2705.59	2715.78	2726.98	2739.85	2753.74
27.5	2549.34	2567.41	2587.20	2607.01	2625.33	2634.12	2644.20	2655.70	2670.59	2683.23
30.0	2450.71	2468.77	2488.55	2508.93	2533.51	2557.92	2566.58	2578.78	2591.62	2606.16
32.5	2348.32	2365.97	2388.12	2406.05	2430.59	2456.34	2486.92	2496.18	2508.61	2523.12
35.0	2242.49	2259.38	2278.01	2297.54	2322.60	2348.22	2376.52	2407.74	2419.36	2433.51
37.5	2132.55	2149.80	2164.09	2186.18	2208.83	2234.36	2262.40	2293.42	2323.66	2337.03
40.0	2019.50	2033.22	2049.48	2068.85	2090.30	2114.76	2142.25	2172.84	2207.09	2234.01
42.5	1896.36	1914.54	1929.44	1946.59	1966.72	1989.45	2015.95	2045.72	2079.87	2119.01
45.0	1751.99	1778.04	1805.08	1819.88	1837.55	1857.81	1882.21	1911.52	1945.55	1983.95
47.5	1606.84	1629.16	1655.57	1683.86	1701.06	1719.28	1739.51	1766.44	1800.04	1836.66
50.0	1453.92	1477.61	1501.31	1526.20	1553.57	1574.84	1592.60	1618.89	1649.29	1682.06
52.5	1305.11	1325.02	1346.26	1369.82	1393.97	1420.32	1442.32	1468.70	1497.57	1530.67
55.0	1154.75	1173.07	1193.57	1214.62	1240.42	1265.70	1290.71	1319.81	1345.71	1377.44
57.5	1002.62	1024.17	1043.42	1070.15	1089.60	1113.41	1138.07	1167.91	1195.62	1224.96
60.0	824.18	861.74	906.02	924.89	942.60	961.65	985.16	1012.73	1042.77	1068.27
62.5	650.44	693.20	738.38	772.15	794.91	813.08	835.08	859.01	883.58	910.79
65.0	481.69	528.90	566.27	603.04	637.29	668.38	688.64	710.13	731.33	754.22
67.5	318.23	363.22	404.47	443.85	480.45	514.61	547.40	568.57	587.40	608.82

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	172.73	203.77	249.89	293.23	332.76	369.87	403.39	431.52	450.98	472.85
<b>72.5</b>	130.15	133.87	137.22	149.96	193.76	234.65	270.78	299.64	325.46	346.36
<b>75.0</b>	89.75	94.28	98.57	101.31	103.64	108.57	149.32	183.70	211.98	232.94
<b>77.5</b>	50.29	56.05	61.27	65.45	69.33	73.01	75.91	79.16	112.56	137.87
<b>80.0</b>	11.71	18.79	25.34	31.27	36.79	41.76	45.99	49.50	52.60	56.81
<b>82.5</b>	2.58	3.49	4.48	5.55	6.71	11.96	17.69	22.89	27.14	30.39
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.98	2.18	3.55	5.14	8.86
<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>75.0</b>	<b>77.5</b>	<b>80.0</b>	<b>82.5</b>	<b>85.0</b>	<b>87.5</b>	<b>90.0</b>	<b>92.5</b>	<b>95.0</b>	<b>97.5</b>
<b>0.0</b>	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3146.20	3148.27	3150.37	3152.49	3154.64	3156.80	3158.98	3159.70	3160.43	3161.17
<b>5.0</b>	3126.14	3130.18	3134.02	3138.34	3142.68	3147.05	3151.42	3152.87	3154.31	3155.74
<b>7.5</b>	3100.79	3106.70	3112.77	3118.99	3125.33	3131.79	3138.35	3140.57	3142.88	3145.27
<b>10.0</b>	3070.13	3077.86	3085.85	3093.33	3102.16	3111.03	3119.91	3122.85	3125.79	3128.72
<b>12.5</b>	3033.95	3043.36	3053.15	3063.29	3073.76	3084.54	3095.61	3099.48	3103.61	3107.99
<b>15.0</b>	2992.06	3003.14	3014.73	3026.82	3038.62	3052.16	3065.73	3070.30	3074.86	3081.08
<b>17.5</b>	2944.75	2957.39	2970.60	2984.47	2998.98	3014.10	3029.79	3035.49	3041.71	3048.44
<b>20.0</b>	2891.65	2905.66	2920.56	2936.29	2951.46	2969.80	2988.18	2994.52	3000.84	3010.22
<b>22.5</b>	2833.26	2847.58	2865.07	2882.40	2900.78	2920.17	2940.54	2948.21	2956.78	2966.23
<b>25.0</b>	2768.93	2785.33	2803.09	2822.17	2842.52	2863.54	2886.86	2895.05	2905.45	2916.36
<b>27.5</b>	2699.15	2716.70	2735.80	2756.28	2778.38	2802.06	2827.25	2837.16	2848.49	2861.21
<b>30.0</b>	2622.67	2640.89	2660.93	2682.93	2706.84	2731.74	2760.21	2770.59	2784.40	2798.98
<b>32.5</b>	2539.72	2558.52	2578.13	2602.98	2628.57	2656.46	2686.57	2699.16	2713.83	2730.54
<b>35.0</b>	2450.01	2469.33	2491.22	2515.92	2543.38	2572.29	2606.32	2619.04	2636.73	2655.53
<b>37.5</b>	2353.57	2372.94	2395.73	2421.76	2450.97	2483.41	2519.00	2534.19	2552.41	2573.60
<b>40.0</b>	2249.99	2269.54	2292.78	2319.74	2350.50	2383.24	2423.28	2437.96	2459.80	2483.28
<b>42.5</b>	2139.95	2159.20	2182.53	2210.26	2242.06	2278.56	2319.60	2337.41	2359.55	2385.97
<b>45.0</b>	2020.36	2037.43	2060.26	2088.47	2122.31	2159.10	2206.34	2223.25	2250.39	2279.52
<b>47.5</b>	1879.07	1905.88	1927.36	1953.46	1989.12	2029.60	2076.51	2098.26	2126.25	2158.63
<b>50.0</b>	1725.37	1764.77	1784.16	1813.11	1847.30	1884.81	1936.93	1957.33	1992.40	2030.55
<b>52.5</b>	1569.36	1614.17	1642.05	1668.65	1702.25	1743.41	1792.53	1818.00	1851.63	1893.24
<b>55.0</b>	1415.12	1459.28	1499.11	1523.77	1556.71	1594.05	1649.10	1671.26	1711.33	1755.57
<b>57.5</b>	1259.25	1300.14	1349.56	1375.65	1408.39	1450.54	1502.61	1530.94	1569.45	1617.61
<b>60.0</b>	1099.45	1139.24	1187.74	1224.68	1254.98	1291.09	1350.18	1373.69	1420.57	1473.09
<b>62.5</b>	936.71	975.41	1019.83	1065.11	1094.53	1135.63	1190.02	1222.48	1268.63	1326.41
<b>65.0</b>	782.71	816.07	855.62	908.31	940.86	975.17	1021.40	1054.81	1104.47	1162.40
<b>67.5</b>	634.66	666.89	707.41	754.20	787.52	817.30	861.14	894.29	940.71	989.28
<b>70.0</b>	496.87	521.58	556.96	599.35	639.05	664.13	706.19	743.63	800.65	834.30
<b>72.5</b>	366.04	393.23	418.21	451.15	489.18	512.37	550.20	590.55	649.59	678.31
<b>75.0</b>	248.26	273.77	295.75	319.79	351.06	379.34	418.13	445.77	486.77	524.01
<b>77.5</b>	156.02	169.10	188.02	206.57	229.81	255.69	288.67	314.40	349.74	396.16
<b>80.0</b>	79.77	94.13	102.82	118.08	132.27	152.00	170.74	184.98	212.83	250.78
<b>82.5</b>	32.60	38.31	49.88	55.17	64.27	72.31	75.55	80.83	101.50	131.90
<b>85.0</b>	12.93	15.93	17.59	21.27	23.52	25.51	21.80	25.73	33.90	59.18
<b>87.5</b>	0.00	1.46	4.21	6.91	7.72	8.14	3.86	4.06	12.16	22.61
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	3.88	0.00	0.00	0.00

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

	<b>100.0</b>	<b>102.5</b>	<b>105.0</b>	<b>107.5</b>	<b>110.0</b>	<b>112.5</b>	<b>115.0</b>	<b>117.5</b>	<b>120.0</b>	<b>122.5</b>
<b>0.0</b>	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3161.91	3162.66	3163.40	3164.15	3164.90	3165.64	3166.38	3167.12	3167.85	3168.57

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**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	3157.17	3159.05	3160.65	3162.27	3163.90	3165.55	3167.21	3168.87	3170.53	3172.19
<b>7.5</b>	3147.74	3150.27	3152.87	3155.52	3158.24	3160.54	3163.62	3166.34	3169.08	3171.83
<b>10.0</b>	3132.91	3136.51	3140.24	3144.08	3148.03	3152.08	3156.22	3160.25	3164.26	3168.30
<b>12.5</b>	3112.59	3117.42	3122.47	3126.78	3132.94	3138.38	3143.96	3149.68	3155.27	3160.86
<b>15.0</b>	3086.88	3093.00	3099.43	3106.14	3113.14	3120.21	3127.43	3134.84	3141.88	3149.89
<b>17.5</b>	3055.65	3063.31	3071.31	3079.64	3088.37	3097.46	3106.68	3116.03	3125.63	3135.23
<b>20.0</b>	3018.85	3028.09	3037.92	3048.30	3058.96	3070.04	3081.55	3093.12	3104.94	3116.95
<b>22.5</b>	2976.52	2986.37	2999.14	3011.46	3024.48	3037.94	3052.45	3066.34	3080.81	3095.53
<b>25.0</b>	2928.30	2941.23	2955.11	2969.74	2985.13	3000.93	3017.73	3034.80	3052.09	3069.87
<b>27.5</b>	2875.27	2890.33	2906.46	2923.66	2941.57	2960.32	2979.76	2999.77	3020.19	3031.44
<b>30.0</b>	2815.12	2832.75	2851.66	2871.61	2892.80	2914.96	2936.87	2961.76	2970.87	2979.31
<b>32.5</b>	2747.59	2769.42	2791.44	2814.90	2839.47	2865.11	2890.57	2900.44	2911.79	2923.26
<b>35.0</b>	2676.60	2699.86	2724.99	2752.11	2780.54	2810.37	2821.69	2834.53	2848.61	2861.92
<b>37.5</b>	2597.46	2623.84	2652.83	2683.73	2716.67	2732.45	2746.77	2762.92	2780.42	2799.30
<b>40.0</b>	2510.08	2539.99	2572.82	2608.37	2632.72	2648.40	2666.43	2686.32	2707.55	2730.35
<b>42.5</b>	2415.88	2449.41	2486.29	2521.18	2537.74	2557.52	2579.85	2603.98	2629.90	2657.22
<b>45.0</b>	2313.41	2351.05	2392.53	2416.30	2437.31	2461.10	2487.93	2517.06	2547.72	2579.70
<b>47.5</b>	2199.82	2244.64	2283.22	2305.13	2330.54	2356.19	2388.36	2425.30	2461.68	2494.34
<b>50.0</b>	2073.58	2125.26	2154.39	2179.34	2215.87	2252.40	2289.06	2330.03	2361.66	2380.67
<b>52.5</b>	1942.44	1989.85	2017.59	2050.87	2089.68	2133.75	2180.67	2217.61	2239.34	2264.15
<b>55.0</b>	1808.21	1843.36	1874.17	1912.34	1957.69	2009.76	2046.91	2079.36	2111.16	2143.09
<b>57.5</b>	1672.22	1698.11	1732.39	1774.58	1824.12	1868.95	1901.28	1937.17	1971.31	2016.99
<b>60.0</b>	1518.56	1550.72	1591.22	1639.06	1686.34	1714.02	1750.55	1794.03	1839.56	1882.35
<b>62.5</b>	1362.25	1399.13	1444.46	1502.32	1529.65	1562.79	1602.02	1649.75	1704.31	1747.32
<b>65.0</b>	1199.64	1247.08	1303.51	1337.06	1373.41	1413.81	1458.28	1508.53	1548.44	1587.65
<b>67.5</b>	1030.12	1086.20	1135.30	1168.79	1210.73	1266.22	1314.06	1349.17	1387.36	1430.81
<b>70.0</b>	871.77	924.84	963.31	1005.96	1048.73	1100.06	1148.53	1189.35	1236.08	1280.33
<b>72.5</b>	717.59	759.20	803.17	855.68	893.30	932.19	979.86	1034.17	1086.32	1137.82
<b>75.0</b>	567.90	608.11	652.07	696.00	734.86	774.21	828.34	877.83	926.74	972.12
<b>77.5</b>	418.27	461.41	507.15	546.08	584.00	627.62	675.68	716.20	762.21	808.15
<b>80.0</b>	293.62	324.64	369.09	408.69	445.78	484.05	521.87	566.07	606.63	650.97
<b>82.5</b>	172.37	210.51	250.28	284.62	317.29	352.06	385.70	422.67	444.61	404.70
<b>85.0</b>	89.26	120.18	148.16	173.80	181.62	153.04	110.51	56.33	0.00	0.00
<b>87.5</b>	33.10	19.68	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>	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3169.29	3169.96	3170.51	3171.28	3171.90	3172.51	3173.10	3173.67	3174.22	3174.74
<b>5.0</b>	3173.85	3175.37	3176.95	3178.42	3179.87	3181.29	3182.68	3184.03	3185.25	3186.39
<b>7.5</b>	3174.60	3177.07	3179.97	3182.60	3185.21	3187.79	3190.19	3192.49	3194.75	3196.96
<b>10.0</b>	3172.38	3175.93	3180.37	3184.30	3188.24	3191.93	3195.54	3199.11	3202.46	3205.71
<b>12.5</b>	3166.52	3172.19	3177.84	3183.52	3188.95	3194.11	3199.23	3204.26	3208.90	3213.35
<b>15.0</b>	3157.53	3165.14	3172.57	3180.05	3187.02	3194.00	3200.85	3207.67	3213.82	3219.77
<b>17.5</b>	3144.94	3154.62	3164.15	3173.66	3183.07	3192.20	3200.99	3209.23	3216.69	3225.05
<b>20.0</b>	3129.13	3141.24	3153.15	3164.93	3176.62	3187.56	3191.63	3195.95	3199.77	3203.48
<b>22.5</b>	3110.19	3124.76	3139.84	3145.75	3151.31	3156.66	3162.44	3167.99	3173.63	3179.28
<b>25.0</b>	3087.99	3094.79	3101.76	3108.88	3115.96	3123.43	3131.13	3137.43	3145.93	3153.03
<b>27.5</b>	3041.01	3049.75	3059.12	3067.22	3078.37	3088.08	3097.48	3107.11	3116.52	3125.58
<b>30.0</b>	2990.91	3002.01	3013.52	3025.41	3037.78	3050.12	3062.08	3074.09	3085.52	3096.88
<b>32.5</b>	2937.50	2951.06	2965.25	2980.02	2994.77	3009.76	3024.83	3039.09	3052.82	3066.82
<b>35.0</b>	2879.73	2897.10	2914.60	2931.98	2948.32	2967.85	2985.34	3002.91	3019.46	3027.77
<b>37.5</b>	2816.57	2839.23	2860.04	2881.70	2902.86	2923.77	2938.95	2947.06	2955.99	2964.53
<b>40.0</b>	2753.92	2778.39	2803.25	2828.18	2844.57	2855.17	2865.70	2877.23	2888.26	2899.90

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**CANDELA TABULATION - (Cont.)**

42.5	2685.43	2714.24	2736.98	2749.65	2762.81	2776.87	2791.27	2805.18	2819.52	2833.46
45.0	2613.06	2629.92	2645.46	2661.92	2679.31	2696.54	2714.40	2732.09	2747.81	2766.18
47.5	2511.12	2530.47	2550.87	2569.54	2593.10	2614.80	2635.95	2657.31	2678.14	2698.10
50.0	2402.69	2426.93	2450.97	2479.22	2504.96	2531.08	2556.57	2581.29	2606.09	2626.84
52.5	2290.40	2319.45	2350.54	2384.38	2415.50	2445.70	2474.98	2489.76	2502.94	2516.46
55.0	2176.65	2210.18	2246.06	2286.06	2320.11	2337.14	2354.49	2369.47	2388.33	2405.24
57.5	2058.55	2100.53	2137.08	2160.98	2187.54	2210.40	2231.45	2252.82	2271.44	2292.15
60.0	1936.76	1967.33	1994.85	2022.40	2053.39	2082.83	2108.28	2133.36	2157.68	2181.03
62.5	1779.76	1814.22	1849.87	1884.04	1919.55	1954.46	1985.17	2013.79	2041.94	2068.61
65.0	1620.63	1661.26	1701.66	1742.14	1785.74	1826.31	1862.22	1894.53	1920.36	1937.95
67.5	1472.56	1512.94	1556.93	1601.92	1651.91	1688.64	1714.20	1736.04	1757.53	1778.28
70.0	1325.18	1369.14	1410.18	1448.48	1483.35	1516.78	1545.90	1571.28	1595.17	1618.96
72.5	1174.21	1208.02	1240.99	1281.16	1315.16	1348.01	1379.14	1407.42	1433.74	1460.21
75.0	1006.51	1043.51	1080.90	1120.24	1153.93	1182.65	1214.36	1244.96	1273.28	1302.18
77.5	846.74	883.42	922.16	962.83	998.86	1020.83	1052.02	1083.59	1114.02	1095.89
80.0	690.41	728.05	766.38	761.97	711.42	642.94	585.67	528.87	472.28	416.51
82.5	355.12	296.91	233.75	166.55	96.13	22.98	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	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
2.5	3175.25	3175.72	3176.18	3176.55	3176.89	3177.19	3177.45	3177.68	3177.89	3178.06
5.0	3187.48	3188.53	3189.53	3190.32	3191.24	3191.99	3192.68	3193.31	3194.28	3194.40
7.5	3198.84	3200.63	3202.36	3203.91	3205.25	3206.51	3207.57	3208.60	3209.46	3210.19
10.0	3208.80	3211.65	3214.35	3216.76	3218.86	3220.84	3222.41	3223.85	3225.05	3226.61
12.5	3217.61	3221.61	3225.38	3228.83	3231.95	3234.67	3237.01	3238.96	3240.60	3241.91
15.0	3225.42	3230.82	3235.69	3240.24	3244.47	3248.10	3251.34	3253.95	3256.06	3257.71
17.5	3228.95	3231.26	3233.73	3235.97	3237.66	3240.03	3241.68	3243.11	3244.27	3245.08
20.0	3207.15	3210.94	3214.22	3217.45	3220.53	3222.89	3225.83	3227.86	3229.49	3230.79
22.5	3184.44	3189.17	3193.86	3198.20	3202.28	3206.07	3209.44	3212.33	3214.63	3216.44
25.0	3160.11	3166.61	3172.61	3178.26	3183.48	3188.37	3192.75	3196.54	3199.56	3201.92
27.5	3134.32	3142.81	3150.59	3157.73	3164.23	3170.12	3175.73	3180.48	3184.32	3187.26
30.0	3107.62	3117.87	3127.69	3136.53	3144.54	3151.61	3158.26	3164.19	3169.01	3172.57
32.5	3079.90	3092.19	3103.81	3108.28	3112.14	3115.69	3119.16	3122.43	3125.16	3127.12
35.0	3034.66	3041.17	3047.45	3053.42	3058.93	3063.51	3068.29	3072.64	3076.15	3078.64
37.5	2973.49	2981.91	2989.13	2997.96	3005.26	3011.63	3017.28	3022.53	3027.10	3030.19
40.0	2910.76	2921.75	2932.11	2941.92	2950.92	2958.95	2966.03	2972.36	2977.79	2981.76
42.5	2847.41	2860.58	2873.30	2885.16	2896.22	2905.84	2914.64	2921.90	2928.52	2933.28
45.0	2782.79	2798.66	2813.81	2827.96	2841.10	2852.52	2862.72	2871.39	2879.22	2884.63
47.5	2717.35	2734.67	2753.60	2766.38	2773.46	2779.87	2785.39	2790.19	2794.73	2798.13
50.0	2636.90	2647.11	2657.11	2666.77	2675.61	2683.87	2690.90	2697.21	2702.77	2707.40
52.5	2529.53	2542.36	2554.89	2566.55	2577.41	2587.60	2596.37	2604.15	2610.22	2616.30
55.0	2421.47	2437.31	2452.29	2466.35	2479.10	2491.07	2501.67	2510.86	2518.67	2525.57
57.5	2311.64	2330.20	2349.44	2365.97	2380.69	2394.38	2406.84	2417.51	2426.54	2434.48
60.0	2203.80	2225.79	2246.48	2265.33	2282.28	2297.68	2311.49	2324.20	2334.44	2343.36
62.5	2094.75	2119.76	2141.22	2152.83	2163.62	2172.76	2181.66	2189.39	2195.71	2201.19
65.0	1954.55	1971.93	1987.52	2001.03	2013.51	2023.67	2033.27	2041.66	2048.72	2054.38
67.5	1798.32	1815.33	1834.27	1849.63	1863.33	1874.80	1885.14	1894.12	1901.73	1907.31
70.0	1641.66	1662.62	1681.93	1698.64	1713.57	1726.12	1737.19	1746.75	1754.88	1761.05
72.5	1485.09	1508.87	1529.93	1547.94	1564.16	1577.77	1589.36	1598.87	1608.15	1614.47
75.0	1329.82	1355.59	1378.46	1397.72	1414.94	1429.73	1441.80	1452.46	1461.55	1467.99
77.5	1053.50	1011.57	969.95	928.90	891.75	857.36	826.31	799.88	778.18	760.75

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	362.90	310.72	260.74	213.79	170.63	131.74	97.41	68.03	43.75	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><u>175.0</u></b>	<b><u>177.5</u></b>	<b><u>180.0</u></b>	<b><u>182.5</u></b>	<b><u>185.0</u></b>	<b><u>187.5</u></b>	<b><u>190.0</u></b>	<b><u>192.5</u></b>	<b><u>195.0</u></b>	<b><u>197.5</u></b>
<b>0.0</b>	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3178.21	3178.32	3178.40	3178.36	3178.29	3178.19	3178.06	3177.90	3177.71	3177.49
<b>5.0</b>	3194.53	3194.65	3194.78	3194.72	3194.67	3194.61	3194.55	3193.75	3193.03	3192.37
<b>7.5</b>	3210.61	3210.93	3211.16	3211.01	3210.77	3210.44	3209.70	3208.85	3207.91	3206.80
<b>10.0</b>	3227.08	3227.31	3227.54	3227.38	3227.22	3226.74	3225.15	3223.94	3222.53	3221.02
<b>12.5</b>	3243.01	3243.57	3243.92	3243.62	3243.20	3241.88	3240.51	3238.90	3236.92	3234.47
<b>15.0</b>	3259.44	3259.99	3260.30	3260.00	3259.36	3257.53	3255.79	3253.64	3250.86	3247.49
<b>17.5</b>	3245.79	3246.32	3246.55	3246.32	3245.67	3244.85	3244.12	3242.75	3241.13	3239.44
<b>20.0</b>	3231.45	3232.48	3232.80	3232.48	3231.30	3230.67	3229.35	3227.54	3225.72	3223.24
<b>22.5</b>	3217.72	3218.84	3219.06	3218.85	3217.69	3216.48	3214.56	3212.11	3209.42	3206.33
<b>25.0</b>	3203.30	3204.96	3205.31	3205.04	3203.22	3202.09	3199.60	3196.57	3193.09	3189.01
<b>27.5</b>	3189.59	3191.23	3191.56	3191.22	3189.63	3187.54	3184.52	3180.80	3176.49	3171.28
<b>30.0</b>	3174.86	3177.26	3177.81	3177.25	3175.06	3172.98	3169.47	3164.82	3159.42	3152.99
<b>32.5</b>	3128.59	3129.79	3129.96	3129.70	3128.71	3127.46	3125.50	3123.23	3120.48	3117.25
<b>35.0</b>	3080.52	3081.40	3082.11	3081.21	3080.53	3078.74	3076.40	3073.45	3069.55	3065.55
<b>37.5</b>	3032.44	3034.00	3034.26	3033.72	3032.41	3030.13	3027.65	3023.29	3019.08	3013.29
<b>40.0</b>	2984.30	2985.62	2986.40	2985.22	2983.97	2981.54	2977.97	2973.09	2967.25	2960.68
<b>42.5</b>	2936.17	2938.28	2938.55	2937.76	2935.67	2933.18	2928.63	2922.63	2916.43	2907.64
<b>45.0</b>	2888.06	2889.93	2890.69	2889.27	2887.40	2884.19	2879.57	2872.20	2863.84	2854.19
<b>47.5</b>	2800.15	2801.70	2801.89	2801.43	2800.13	2798.52	2795.65	2791.87	2787.22	2781.79
<b>50.0</b>	2710.38	2711.40	2713.08	2711.69	2711.06	2708.76	2704.88	2700.05	2694.16	2687.01
<b>52.5</b>	2620.46	2623.19	2624.28	2623.87	2621.97	2618.96	2614.10	2608.19	2601.08	2592.10
<b>55.0</b>	2530.64	2532.99	2535.47	2534.24	2533.12	2528.98	2523.22	2516.13	2507.64	2496.93
<b>57.5</b>	2440.65	2444.55	2446.66	2446.23	2443.59	2438.94	2432.30	2424.03	2413.98	2401.57
<b>60.0</b>	2347.23	2354.36	2357.86	2356.58	2351.01	2348.89	2341.38	2332.00	2320.33	2307.44
<b>62.5</b>	2205.93	2208.90	2210.97	2210.84	2209.28	2206.12	2202.04	2197.45	2189.97	2181.54
<b>65.0</b>	2054.27	2060.86	2064.08	2062.49	2057.12	2058.52	2054.52	2048.31	2040.86	2031.76
<b>67.5</b>	1912.44	1915.29	1917.19	1916.60	1914.82	1910.97	1906.21	1899.94	1892.03	1882.25
<b>70.0</b>	1761.67	1767.48	1770.30	1768.46	1763.52	1763.68	1758.41	1751.73	1744.14	1733.05
<b>72.5</b>	1619.15	1621.75	1623.41	1622.38	1620.48	1615.96	1610.73	1603.67	1594.90	1584.26
<b>75.0</b>	1469.38	1474.21	1476.52	1474.48	1470.14	1468.53	1463.16	1456.18	1446.69	1435.83
<b>77.5</b>	748.21	740.49	738.26	740.62	748.61	761.01	779.01	801.66	829.17	861.58
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	43.79	68.18	97.76	132.34
<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><u>200.0</u></b>	<b><u>202.5</u></b>	<b><u>205.0</u></b>	<b><u>207.5</u></b>	<b><u>210.0</u></b>	<b><u>212.5</u></b>	<b><u>215.0</u></b>	<b><u>217.5</u></b>	<b><u>220.0</u></b>	<b><u>222.5</u></b>
<b>0.0</b>	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3177.24	3176.96	3176.66	3176.16	3175.70	3175.22	3174.71	3174.19	3173.64	3173.07
<b>5.0</b>	3191.65	3190.87	3189.99	3189.02	3188.01	3186.95	3185.84	3184.77	3183.29	3181.90
<b>7.5</b>	3205.58	3204.28	3202.73	3200.97	3199.15	3197.33	3195.11	3192.93	3190.70	3188.65
<b>10.0</b>	3218.96	3216.80	3214.38	3211.72	3208.99	3206.05	3203.03	3200.22	3196.41	3192.91
<b>12.5</b>	3231.68	3228.54	3225.23	3221.76	3217.97	3213.82	3209.49	3204.98	3200.12	3195.04

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**CANDELA TABULATION - (Cont.)**

15.0	3244.13	3239.96	3235.64	3230.87	3225.60	3220.12	3214.11	3208.50	3201.53	3195.58
17.5	3237.86	3235.84	3233.65	3231.34	3228.71	3224.83	3217.39	3210.12	3202.52	3194.11
20.0	3220.62	3217.64	3214.40	3211.63	3207.43	3204.42	3201.27	3197.95	3193.81	3189.98
22.5	3202.72	3198.66	3194.31	3189.97	3186.34	3181.24	3175.99	3170.63	3165.23	3159.77
25.0	3184.25	3179.05	3173.80	3168.53	3162.43	3155.76	3149.23	3141.69	3134.24	3126.89
27.5	3165.97	3159.10	3152.73	3145.37	3137.28	3128.80	3119.95	3110.82	3101.60	3092.28
30.0	3146.04	3139.10	3130.38	3120.99	3111.05	3100.67	3089.80	3078.63	3066.86	3055.04
32.5	3114.21	3110.96	3107.03	3095.78	3084.02	3071.51	3058.52	3045.95	3030.39	3015.60
35.0	3061.18	3056.14	3050.96	3044.90	3039.21	3033.66	3025.30	3009.07	2991.74	2974.28
37.5	3007.78	3000.56	2993.28	2985.60	2977.85	2971.15	2961.76	2953.50	2946.42	2931.22
40.0	2953.06	2944.32	2934.94	2925.19	2914.97	2904.75	2893.99	2884.04	2872.69	2862.12
42.5	2898.07	2887.50	2875.76	2863.85	2851.27	2838.34	2824.91	2811.40	2797.57	2783.83
45.0	2842.72	2829.65	2815.96	2802.55	2786.58	2770.88	2754.68	2737.82	2721.57	2703.46
47.5	2775.18	2767.68	2755.59	2738.74	2721.15	2702.46	2683.70	2662.83	2642.34	2621.29
50.0	2678.62	2670.15	2660.27	2650.76	2641.12	2631.17	2612.09	2587.01	2562.55	2537.69
52.5	2581.67	2570.84	2559.58	2547.87	2535.59	2523.00	2511.11	2496.30	2480.93	2452.62
55.0	2484.68	2472.12	2458.71	2444.57	2429.86	2414.04	2398.43	2380.51	2363.23	2345.64
57.5	2387.60	2373.25	2357.64	2341.04	2323.86	2304.58	2285.37	2264.43	2243.01	2221.19
60.0	2290.56	2274.27	2256.32	2237.50	2217.33	2195.45	2172.10	2147.75	2122.14	2095.69
62.5	2172.55	2163.09	2152.79	2134.12	2110.74	2086.16	2058.99	2030.80	2000.78	1969.65
65.0	2022.95	2010.86	1998.36	1985.68	1970.96	1956.42	1939.62	1913.84	1879.33	1843.81
67.5	1871.71	1858.78	1844.52	1827.39	1812.09	1794.17	1775.16	1754.02	1731.09	1707.97
70.0	1721.63	1708.12	1690.71	1672.68	1654.17	1632.72	1611.07	1586.98	1561.18	1534.92
72.5	1572.34	1555.30	1537.22	1516.66	1494.97	1472.09	1448.09	1421.08	1392.59	1363.57
75.0	1422.17	1404.06	1385.56	1361.05	1337.57	1312.34	1286.07	1257.00	1225.64	1194.36
77.5	896.37	933.53	973.25	1014.79	1058.80	1104.20	1126.50	1093.45	1060.37	1028.10
80.0	171.52	214.71	261.60	311.94	364.80	420.27	477.00	533.64	589.70	646.21
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.12
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	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
2.5	3172.49	3171.88	3171.26	3170.63	3170.04	3169.26	3168.55	3167.84	3167.12	3166.39
5.0	3180.48	3179.04	3177.57	3176.09	3174.85	3172.93	3171.33	3169.73	3168.13	3166.53
7.5	3185.98	3183.52	3181.04	3178.55	3175.91	3173.24	3170.57	3167.92	3165.29	3162.69
10.0	3189.65	3185.53	3181.72	3177.92	3173.98	3170.00	3166.07	3162.18	3158.72	3154.36
12.5	3189.95	3184.71	3179.32	3173.97	3168.59	3163.20	3157.85	3153.11	3146.95	3141.54
15.0	3188.58	3182.07	3174.87	3167.73	3160.39	3153.00	3145.73	3138.33	3131.05	3123.96
17.5	3185.35	3176.31	3167.04	3157.70	3148.21	3138.70	3130.54	3119.75	3110.50	3101.51
20.0	3179.32	3167.78	3156.15	3144.22	3132.42	3120.77	3109.12	3097.50	3087.06	3074.87
22.5	3154.03	3148.64	3143.84	3128.28	3113.93	3099.52	3085.07	3070.88	3057.34	3043.26
25.0	3119.68	3112.61	3105.51	3098.54	3091.79	3074.15	3056.76	3040.15	3023.31	3007.41
27.5	3083.65	3073.23	3063.69	3054.40	3045.72	3037.91	3024.87	3004.52	2984.68	2965.45
30.0	3042.95	3030.69	3018.90	3007.37	2995.90	2985.07	2974.76	2964.99	2941.44	2918.53
32.5	3000.68	2986.00	2971.09	2956.43	2942.17	2928.54	2915.11	2902.79	2891.86	2866.85
35.0	2956.55	2938.91	2921.87	2904.18	2885.20	2867.51	2851.60	2836.21	2822.06	2809.68
37.5	2909.92	2888.35	2866.54	2844.95	2823.95	2803.03	2783.15	2764.69	2747.76	2732.54
40.0	2852.90	2835.92	2810.34	2784.67	2759.30	2734.88	2711.50	2689.16	2668.54	2649.85
42.5	2770.25	2757.23	2744.67	2721.57	2692.22	2663.24	2635.45	2609.07	2584.50	2562.16
45.0	2686.35	2669.30	2653.17	2638.15	2621.71	2588.21	2556.03	2525.41	2496.21	2468.59
47.5	2600.13	2579.33	2558.95	2539.42	2521.37	2505.68	2473.46	2436.83	2402.03	2369.70
50.0	2512.32	2487.10	2462.23	2438.01	2415.91	2395.04	2376.21	2344.63	2304.44	2268.15

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**CANDELA TABULATION - (Cont.)**

<b>52.5</b>	2423.02	2393.07	2362.12	2334.81	2306.52	2280.50	2256.66	2235.21	2202.93	2156.45
<b>55.0</b>	2328.53	2297.17	2262.44	2227.90	2194.64	2162.92	2132.01	2103.93	2077.79	2037.46
<b>57.5</b>	2199.00	2177.25	2156.38	2119.86	2080.59	2040.31	2001.46	1963.34	1929.52	1899.04
<b>60.0</b>	2068.67	2042.33	2015.50	1990.42	1962.11	1913.00	1863.68	1819.07	1778.89	1744.67
<b>62.5</b>	1938.62	1906.04	1873.13	1839.41	1805.83	1770.71	1725.77	1676.86	1633.71	1596.42
<b>65.0</b>	1808.01	1768.35	1728.17	1687.57	1648.45	1609.24	1573.57	1541.47	1492.60	1448.28
<b>67.5</b>	1676.51	1630.47	1584.26	1538.33	1495.67	1454.12	1416.57	1383.16	1350.11	1303.99
<b>70.0</b>	1504.68	1470.25	1435.59	1393.54	1349.14	1304.89	1262.59	1222.32	1184.99	1151.73
<b>72.5</b>	1331.15	1294.07	1259.27	1226.80	1194.89	1160.01	1112.99	1066.19	1027.46	983.70
<b>75.0</b>	1164.06	1124.84	1088.80	1055.40	1018.47	986.69	952.95	919.20	877.31	822.89
<b>77.5</b>	995.24	960.43	922.13	885.44	850.13	816.41	780.98	754.15	714.50	674.29
<b>80.0</b>	701.55	752.20	758.91	721.28	685.52	652.83	620.83	591.97	554.88	518.56
<b>82.5</b>	94.81	164.66	230.96	292.63	350.04	402.63	452.90	439.73	406.21	373.08
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.99	115.31	160.70
<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><u>250.0</u></b>	<b><u>252.5</u></b>	<b><u>255.0</u></b>	<b><u>257.5</u></b>	<b><u>260.0</u></b>	<b><u>262.5</u></b>	<b><u>265.0</u></b>	<b><u>267.5</u></b>	<b><u>270.0</u></b>	<b><u>272.5</u></b>
<b>0.0</b>	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3165.66	3164.93	3164.19	3163.46	3162.73	3162.00	3161.27	3160.55	3159.84	3157.64
<b>5.0</b>	3164.94	3163.36	3161.80	3160.25	3158.72	3157.21	3155.73	3154.27	3152.84	3148.44
<b>7.5</b>	3160.34	3157.45	3154.87	3152.36	3149.90	3147.51	3145.19	3142.94	3140.78	3134.15
<b>10.0</b>	3150.51	3146.74	3143.08	3139.52	3136.08	3132.77	3129.58	3126.52	3123.61	3114.74
<b>12.5</b>	3136.28	3131.15	3126.82	3121.21	3116.50	3112.01	3107.74	3103.70	3099.91	3088.81
<b>15.0</b>	3117.94	3110.17	3103.61	3097.32	3091.34	3085.67	3080.32	3075.32	3070.66	3057.29
<b>17.5</b>	3092.78	3084.40	3076.38	3069.73	3061.12	3054.08	3047.51	3041.44	3035.89	3020.19
<b>20.0</b>	3064.03	3054.26	3043.47	3033.89	3024.88	3016.48	3008.70	3001.56	2995.08	2977.05
<b>22.5</b>	3031.61	3017.50	3005.51	2994.24	2983.59	2973.67	2964.57	2956.31	2948.91	2928.44
<b>25.0</b>	2991.47	2976.34	2964.08	2948.49	2935.93	2924.40	2913.91	2904.49	2896.16	2873.22
<b>27.5</b>	2946.91	2929.26	2912.43	2896.76	2883.45	2868.63	2856.43	2845.65	2836.30	2810.84
<b>30.0</b>	2897.34	2875.83	2856.31	2838.05	2821.17	2805.81	2792.05	2779.92	2769.48	2741.46
<b>32.5</b>	2841.56	2817.29	2794.56	2773.53	2754.34	2736.78	2721.13	2707.53	2696.03	2665.36
<b>35.0</b>	2780.76	2753.39	2727.55	2705.46	2681.51	2661.63	2644.09	2628.96	2616.29	2582.93
<b>37.5</b>	2715.76	2684.26	2655.41	2627.39	2602.58	2580.26	2560.52	2543.70	2529.88	2494.00
<b>40.0</b>	2633.38	2609.46	2576.07	2545.34	2517.04	2491.67	2469.60	2450.95	2435.79	2397.37
<b>42.5</b>	2542.12	2524.66	2490.69	2455.25	2423.25	2397.28	2370.61	2350.25	2334.05	2293.17
<b>45.0</b>	2443.59	2421.85	2401.96	2358.60	2322.88	2291.18	2264.25	2241.88	2224.49	2180.22
<b>47.5</b>	2340.05	2313.44	2291.12	2257.15	2214.71	2179.10	2147.92	2122.45	2103.04	2055.42
<b>50.0</b>	2233.29	2199.03	2170.76	2141.13	2093.51	2052.53	2018.02	1990.22	1969.34	1918.62
<b>52.5</b>	2112.60	2072.24	2039.52	2009.00	1963.33	1917.05	1878.87	1848.75	1826.72	1775.35
<b>55.0</b>	1985.13	1937.53	1896.71	1863.69	1828.08	1779.22	1739.14	1707.91	1685.53	1633.45
<b>57.5</b>	1852.91	1800.76	1756.14	1720.22	1693.18	1643.69	1600.87	1567.50	1544.10	1490.45
<b>60.0</b>	1715.88	1667.76	1618.97	1577.82	1544.45	1501.79	1455.15	1419.55	1395.25	1340.41
<b>62.5</b>	1562.03	1535.63	1479.59	1430.97	1392.23	1355.61	1309.77	1265.82	1240.49	1182.82
<b>65.0</b>	1408.96	1374.79	1345.89	1282.69	1234.93	1198.52	1144.09	1100.73	1073.35	1016.29
<b>67.5</b>	1256.88	1214.52	1178.15	1127.70	1068.47	1022.42	974.59	934.18	911.32	857.05
<b>70.0</b>	1105.24	1048.99	1003.32	965.74	912.04	864.25	823.60	785.98	766.90	709.62
<b>72.5</b>	937.33	891.26	840.59	807.31	774.54	714.73	672.73	631.80	610.34	558.34
<b>75.0</b>	775.21	733.19	692.36	649.34	618.30	567.83	517.22	480.27	461.14	420.23
<b>77.5</b>	628.21	581.11	540.50	502.86	468.98	432.79	387.13	351.42	325.21	292.23
<b>80.0</b>	482.19	445.16	404.13	372.34	338.98	298.45	262.39	230.28	206.08	183.30
<b>82.5</b>	340.62	309.54	278.69	245.71	214.49	179.15	141.54	121.32	110.05	100.07
<b>85.0</b>	194.12	189.36	166.27	142.56	113.63	82.14	54.69	39.26	37.52	41.13
<b>87.5</b>	0.00	0.00	0.00	23.16	41.28	31.83	18.39	9.51	8.48	12.84

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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	5.83	0.00
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
2.5	3155.46	3153.30	3151.16	3149.04	3146.96	3144.90	3142.88	3140.91	3138.98	3137.10
5.0	3144.09	3139.78	3135.53	3131.35	3127.24	3123.21	3119.27	3115.43	3111.70	3108.07
7.5	3127.62	3121.20	3114.90	3108.74	3102.73	3096.87	3091.45	3085.64	3080.24	3075.04
10.0	3106.04	3097.52	3089.20	3081.09	3073.22	3065.60	3058.24	3051.16	3044.80	3037.75
12.5	3077.99	3067.46	3057.26	3047.39	3038.59	3028.68	3019.79	3011.29	3003.19	2996.16
15.0	3044.30	3031.73	3019.61	3007.95	2996.79	2986.14	2976.97	2966.37	2957.23	2948.66
17.5	3005.07	2990.54	2976.64	2964.52	2950.67	2938.47	2926.98	2916.20	2906.10	2896.69
20.0	2959.74	2943.18	2927.41	2912.46	2898.35	2885.76	2872.58	2860.90	2851.04	2840.14
22.5	2908.90	2890.36	2872.84	2856.34	2840.75	2826.28	2814.36	2800.58	2789.34	2779.09
25.0	2851.45	2830.91	2811.64	2793.70	2779.15	2761.74	2747.65	2734.94	2723.15	2713.07
27.5	2786.90	2764.55	2745.04	2724.42	2706.58	2690.40	2677.79	2663.08	2651.64	2641.43
30.0	2715.23	2690.87	2668.42	2647.93	2629.38	2612.75	2598.86	2585.15	2573.97	2563.92
32.5	2636.93	2610.80	2586.98	2565.26	2546.00	2529.06	2514.23	2501.44	2491.83	2462.46
35.0	2552.17	2524.09	2498.75	2477.96	2456.15	2438.87	2424.12	2412.02	2382.24	2355.03
37.5	2461.23	2431.63	2405.01	2381.39	2361.58	2343.39	2328.75	2299.36	2269.33	2242.26
40.0	2362.63	2331.64	2304.45	2280.83	2260.26	2243.16	2216.29	2182.39	2151.99	2124.97
42.5	2256.56	2226.39	2196.13	2172.33	2152.44	2131.04	2093.52	2059.99	2029.91	2003.61
45.0	2141.15	2107.51	2079.48	2056.45	2042.14	2001.28	1962.87	1929.82	1901.56	1877.45
47.5	2014.18	1979.27	1949.85	1928.52	1900.44	1859.62	1823.99	1793.23	1765.34	1743.23
50.0	1875.02	1838.52	1809.09	1787.57	1749.42	1709.96	1676.97	1648.22	1622.32	1603.48
52.5	1731.70	1695.45	1666.57	1637.57	1595.72	1557.39	1525.74	1497.52	1474.22	1450.05
55.0	1589.86	1554.45	1526.78	1486.69	1443.60	1407.63	1377.54	1351.84	1323.27	1291.98
57.5	1446.68	1412.08	1383.89	1335.37	1294.26	1259.90	1231.48	1202.25	1168.02	1138.15
60.0	1296.61	1263.38	1226.01	1179.46	1142.37	1111.53	1082.51	1045.65	1012.62	984.82
62.5	1144.17	1107.88	1066.22	1025.92	988.92	958.28	923.58	891.56	859.75	832.90
65.0	973.08	938.96	899.43	868.33	844.91	805.60	767.49	736.92	709.42	684.29
67.5	817.95	782.45	743.72	712.74	686.67	655.67	622.71	590.94	561.57	531.14
70.0	668.18	629.04	597.14	572.47	538.89	510.39	485.06	452.20	419.08	384.13
72.5	521.26	484.67	456.48	429.66	403.33	376.76	352.14	323.27	286.94	248.81
75.0	389.36	354.26	329.41	301.83	278.65	257.04	232.44	202.41	165.24	121.93
77.5	263.94	235.65	216.25	192.23	175.61	155.03	126.47	91.46	87.62	83.10
80.0	159.17	141.34	122.24	110.21	92.50	66.97	60.76	57.39	53.46	48.13
82.5	82.89	70.12	60.74	45.59	38.82	36.10	32.19	27.11	21.37	14.67
85.0	34.16	28.37	22.15	19.22	15.60	10.96	6.68	4.65	2.85	1.27
87.5	10.44	8.62	5.02	1.79	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

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
2.5	3135.27	3133.49	3131.87	3130.12	3128.49	3126.93	3125.44	3124.02	3122.67	3121.40
5.0	3104.57	3101.19	3098.26	3094.81	3091.77	3088.87	3086.12	3083.53	3081.10	3078.95
7.5	3070.04	3065.26	3060.71	3056.35	3052.08	3049.71	3044.25	3040.96	3037.27	3034.03
10.0	3032.16	3025.33	3019.60	3014.15	3008.90	3003.99	2999.76	2995.11	2991.10	2987.83
12.5	2988.14	2981.17	2974.65	2968.47	2962.50	2956.99	2951.79	2946.89	2942.47	2938.23
15.0	2940.63	2932.82	2925.60	2918.83	2912.39	2906.54	2901.05	2896.79	2891.42	2887.69
17.5	2889.32	2879.81	2872.21	2865.26	2858.93	2853.11	2847.61	2842.54	2837.86	2833.73
20.0	2831.08	2822.62	2814.78	2807.78	2801.59	2795.83	2790.73	2786.67	2773.51	2762.11
22.5	2769.56	2761.01	2753.26	2746.50	2741.45	2725.90	2711.02	2697.42	2684.45	2672.73

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**CANDELA TABULATION - (Cont.)**

25.0	2703.30	2695.17	2688.17	2669.33	2651.38	2634.75	2619.67	2605.78	2592.96	2581.38
27.5	2632.47	2615.78	2594.57	2574.98	2557.04	2540.67	2526.16	2511.28	2498.94	2487.56
30.0	2540.29	2517.85	2496.54	2476.94	2458.99	2442.61	2427.78	2414.40	2402.12	2391.46
32.5	2437.68	2414.90	2396.15	2374.72	2357.37	2341.59	2327.40	2314.63	2303.37	2294.67
35.0	2330.20	2307.34	2287.74	2270.53	2253.63	2237.71	2224.20	2212.46	2202.22	2193.20
37.5	2217.89	2196.12	2176.85	2160.30	2143.73	2130.37	2118.23	2107.78	2093.73	2073.55
40.0	2101.49	2080.66	2062.20	2046.27	2032.45	2020.15	2002.49	1979.00	1958.21	1940.24
42.5	1980.81	1961.08	1944.64	1930.25	1911.86	1886.68	1862.91	1841.93	1825.42	1804.37
45.0	1855.86	1837.91	1823.06	1795.61	1768.66	1743.98	1722.70	1702.76	1685.72	1668.20
47.5	1725.80	1706.70	1675.62	1647.62	1624.56	1600.04	1579.46	1562.02	1546.09	1531.19
50.0	1580.79	1551.90	1524.33	1497.77	1474.42	1453.50	1435.46	1419.06	1405.55	1393.27
52.5	1422.70	1395.58	1370.27	1347.26	1325.00	1306.01	1289.63	1275.67	1263.42	1232.99
55.0	1265.20	1241.30	1217.60	1195.24	1175.36	1157.86	1138.30	1104.74	1071.27	1038.23
57.5	1112.19	1089.21	1067.82	1046.11	1022.88	986.26	950.64	915.44	881.08	846.29
60.0	961.51	940.84	920.67	883.35	843.00	804.44	766.73	729.73	693.71	657.29
62.5	810.87	785.80	749.25	709.51	668.46	626.86	587.33	547.61	509.18	470.78
65.0	651.64	617.05	580.84	541.13	498.06	454.13	411.76	369.09	327.22	286.68
67.5	495.54	457.41	417.78	376.52	332.63	285.76	238.96	222.00	218.09	215.59
70.0	347.76	307.29	262.88	217.29	187.43	182.22	177.41	174.00	169.42	165.78
72.5	208.30	164.06	149.88	144.55	141.50	137.02	131.55	126.78	121.58	116.59
75.0	116.49	113.12	108.32	102.41	97.80	92.69	86.63	80.62	74.40	68.27
77.5	78.35	73.76	68.02	61.82	55.31	49.11	41.90	34.74	27.74	20.63
80.0	42.18	35.94	29.11	21.69	13.95	9.69	8.56	7.50	6.53	5.65
82.5	8.68	7.13	5.68	4.38	3.21	2.14	1.17	0.27	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>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	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02	3162.02
2.5	3120.22	3119.11	3118.09	3117.15	3116.37	3115.50	3114.74	3114.06	3113.48	3112.98
5.0	3076.62	3074.54	3072.63	3070.89	3069.34	3067.91	3066.59	3065.46	3064.51	3063.86
7.5	3031.05	3028.42	3025.76	3023.44	3021.39	3019.50	3017.77	3016.31	3015.09	3013.98
10.0	2983.90	2980.62	2977.70	2974.84	2972.36	2970.15	2968.20	2966.63	2965.12	2964.00
12.5	2934.47	2931.03	2928.00	2925.14	2922.50	2920.12	2918.01	2916.22	2914.78	2913.60
15.0	2883.18	2879.72	2876.47	2873.76	2871.42	2869.26	2867.64	2865.45	2864.03	2862.93
17.5	2830.20	2826.73	2819.59	2811.71	2804.50	2798.22	2792.79	2787.63	2783.13	2779.43
20.0	2750.88	2740.95	2732.02	2724.38	2716.24	2709.62	2703.90	2699.07	2694.87	2690.58
22.5	2662.00	2652.03	2643.05	2634.53	2627.02	2620.38	2614.57	2609.63	2605.44	2601.60
25.0	2570.93	2561.00	2552.16	2544.02	2536.81	2530.34	2524.75	2519.87	2515.91	2512.37
27.5	2477.29	2467.96	2459.68	2452.29	2445.55	2439.55	2434.91	2429.88	2425.96	2422.89
30.0	2382.08	2373.44	2365.78	2359.05	2353.22	2348.27	2343.18	2339.13	2335.76	2333.10
32.5	2284.63	2277.36	2270.57	2264.69	2259.74	2248.03	2237.32	2227.77	2219.78	2212.73
35.0	2185.41	2171.22	2156.27	2142.15	2129.62	2117.74	2107.33	2097.91	2089.68	2082.85
37.5	2055.58	2040.69	2024.68	2011.30	1998.74	1987.25	1977.32	1967.82	1960.09	1952.88
40.0	1922.41	1906.86	1892.69	1879.96	1867.91	1856.66	1846.74	1837.73	1829.60	1822.95
42.5	1788.29	1773.53	1760.30	1748.08	1736.88	1726.12	1716.28	1707.49	1700.03	1692.82
45.0	1653.28	1639.56	1627.23	1616.97	1605.53	1595.42	1585.81	1577.30	1569.50	1562.81
47.5	1517.75	1505.07	1493.66	1483.70	1474.03	1458.31	1435.60	1415.54	1397.73	1382.42
50.0	1382.02	1366.37	1337.03	1309.48	1283.96	1260.06	1236.63	1216.12	1198.22	1182.94
52.5	1201.95	1169.39	1139.82	1111.45	1085.36	1060.81	1037.85	1016.74	998.71	983.52
55.0	1006.10	973.39	943.24	914.27	887.28	862.33	839.20	817.51	799.17	784.00
57.5	812.09	778.76	747.28	718.00	689.78	664.18	640.72	618.45	599.68	584.39
60.0	620.82	585.31	552.34	522.19	492.90	466.26	442.30	419.78	400.24	384.78

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**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	432.03	393.52	358.49	327.00	303.63	301.71	300.29	298.00	295.92	295.29
<b>65.0</b>	262.21	256.97	253.62	251.93	250.20	247.74	245.93	243.49	240.96	239.67
<b>67.5</b>	211.55	206.49	201.97	199.29	197.17	194.10	191.57	189.04	186.15	184.37
<b>70.0</b>	161.41	156.25	150.94	147.31	144.35	140.88	137.61	134.65	131.54	129.21
<b>72.5</b>	111.73	106.23	100.41	95.81	91.88	87.67	83.91	80.37	76.91	74.16
<b>75.0</b>	62.46	56.37	50.19	44.70	39.74	34.79	30.30	26.17	22.41	19.20
<b>77.5</b>	13.59	10.74	9.97	9.30	8.69	8.14	7.69	7.26	6.88	6.55
<b>80.0</b>	4.83	4.10	3.45	2.87	2.34	1.88	1.47	1.12	0.81	0.56
<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><b>350.0</b></u>	<u><b>352.5</b></u>	<u><b>355.0</b></u>	<u><b>357.5</b></u>	<u><b>360.0</b></u>
<b>0.0</b>	3162.02	3162.02	3162.02	3162.02	3162.02
<b>2.5</b>	3112.59	3112.28	3112.07	3111.96	3111.94
<b>5.0</b>	3063.06	3062.47	3062.08	3061.87	3061.86
<b>7.5</b>	3013.15	3012.59	3012.03	3011.76	3011.78
<b>10.0</b>	2963.05	2962.36	2961.94	2961.63	2961.70
<b>12.5</b>	2912.74	2912.06	2911.85	2911.47	2911.62
<b>15.0</b>	2862.13	2861.70	2861.36	2861.29	2861.53
<b>17.5</b>	2776.61	2774.42	2772.95	2772.20	2772.16
<b>20.0</b>	2687.49	2685.23	2683.72	2682.92	2682.79
<b>22.5</b>	2598.40	2596.09	2594.52	2593.65	2593.42
<b>25.0</b>	2509.21	2506.87	2505.27	2504.43	2504.05
<b>27.5</b>	2419.95	2417.58	2415.98	2415.05	2414.68
<b>30.0</b>	2330.69	2328.32	2326.73	2325.76	2325.31
<b>32.5</b>	2207.04	2202.28	2198.63	2196.47	2195.61
<b>35.0</b>	2077.26	2072.53	2069.00	2066.81	2065.91
<b>37.5</b>	1947.72	1942.81	1939.41	1937.15	1936.21
<b>40.0</b>	1817.41	1813.07	1809.61	1807.49	1806.50
<b>42.5</b>	1687.47	1683.45	1679.91	1677.84	1676.80
<b>45.0</b>	1557.78	1553.35	1550.23	1548.18	1547.09
<b>47.5</b>	1369.79	1359.97	1352.93	1348.62	1346.82
<b>50.0</b>	1169.86	1159.72	1152.51	1148.28	1146.54
<b>52.5</b>	970.06	959.50	952.07	947.93	946.26
<b>55.0</b>	770.34	759.29	751.70	747.58	745.98
<b>57.5</b>	570.73	559.10	551.14	547.14	545.70
<b>60.0</b>	371.22	358.94	350.70	346.73	345.43
<b>62.5</b>	294.01	291.24	289.82	289.76	289.79
<b>65.0</b>	238.60	235.86	234.42	234.16	234.14
<b>67.5</b>	183.00	180.48	179.03	178.58	178.50
<b>70.0</b>	127.48	125.12	123.63	123.01	122.86
<b>72.5</b>	72.00	69.76	68.24	67.45	67.22
<b>75.0</b>	16.54	14.38	12.85	11.90	11.57
<b>77.5</b>	6.29	6.08	5.93	5.82	5.79
<b>80.0</b>	0.35	0.20	0.09	0.02	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 : HZCAS6004HTMOWT50120-277V.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1159.19	12.80	12.80
0-30	2480.84	27.50	27.50
0-40	4099.65	45.40	45.40
0-60	7289.9	80.70	80.70
0-80	8982.28	99.40	99.40
0-90	9037.02	100.00	100.00
10-90	8738.85	96.70	96.70
20-40	2940.46	32.50	32.50
20-50	4635.6	51.30	51.30
40-70	4282.57	47.40	47.40
60-80	1692.39	18.70	18.70
70-80	600.06	6.60	6.60
80-90	54.74	0.60	0.60
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	9037.02	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	298.18
10-20	861.01
20-30	1321.65
30-40	1618.81
40-50	1695.14
50-60	1495.1
60-70	1092.33
70-80	600.06
80-90	54.74
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

**IES INDOOR REPORT**  
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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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTMOWT50120-277V.IES**

**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	8.1	9.5	8.5	9.8	10.1	7.6	7.6	7.6	7.6	7.6
	3H	8.6	9.8	8.9	10.1	10.5	7.6	7.6	7.6	7.6	7.6
	4H	8.5	9.6	8.9	10.0	10.4	7.6	7.6	7.6	7.6	7.6
	6H	8.5	9.5	8.9	9.8	10.2	7.6	7.6	7.6	7.6	7.6
	8H	8.4	9.4	8.8	9.8	10.2	7.6	7.6	7.6	7.6	7.6
	12H	8.4	9.3	8.8	9.7	10.1	7.6	7.6	7.6	7.6	7.6

UGR Viewed Endwise

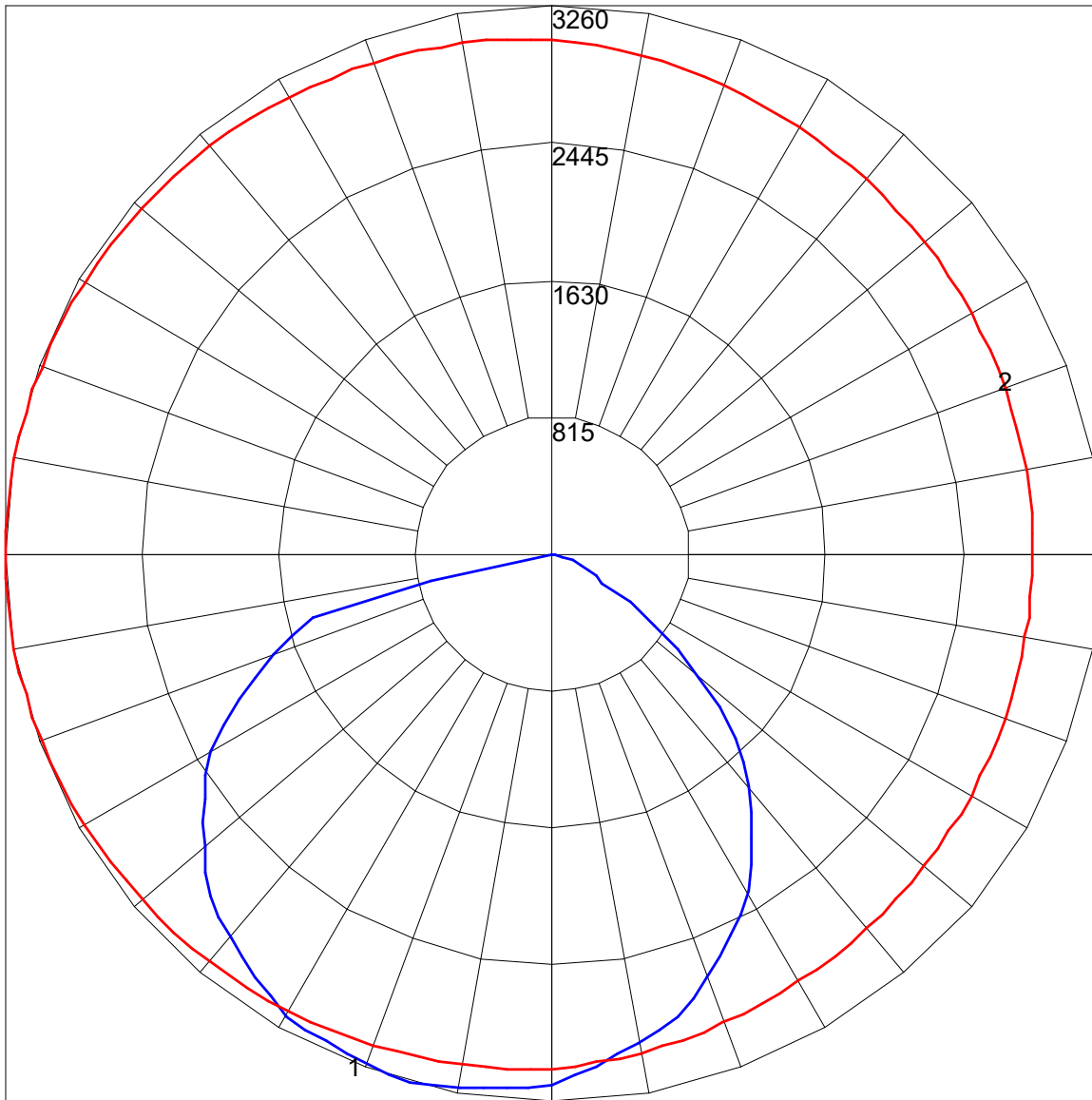
4H	2H	8.0	9.2	8.5	9.5	9.9	7.6	7.6	7.6	7.6	7.6
	3H	8.6	9.5	9.0	9.9	10.3	7.6	7.6	7.6	7.6	7.6
	4H	8.5	9.3	8.9	9.7	10.2	7.6	7.6	7.6	7.6	7.6
	6H	8.4	9.1	8.9	9.6	10.0	7.6	7.6	7.6	7.6	7.6
	8H	8.4	9.0	8.8	9.4	9.9	7.6	7.6	7.6	7.6	7.6
	12H	8.3	8.9	8.8	9.4	9.8	7.6	7.6	7.6	7.6	7.6

8H	4H	8.4	9.0	8.8	9.5	9.9	7.6	7.6	7.6	7.6	7.6
	6H	8.3	8.8	8.8	9.3	9.8	7.6	7.6	7.6	7.6	7.6
	8H	8.2	8.7	8.7	9.2	9.7	7.6	7.6	7.6	7.6	7.6
	12H	8.2	8.6	8.7	9.1	9.6	7.6	7.6	7.6	7.6	7.6

12H	4H	8.3	8.9	8.8	9.4	9.8	7.6	7.6	7.6	7.6	7.6
	6H	8.2	8.7	8.7	9.2	9.7	7.6	7.6	7.6	7.6	7.6
	8H	8.2	8.6	8.7	9.1	9.6	7.6	7.6	7.6	7.6	7.6

Maximum UGR = 10.5

POLAR GRAPH



Maximum Candela = 3260.3 Located At Horizontal Angle = 180, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)