

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS35MHTMO4K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB] BEGHELLI

[TESTDATE] 07 March 2022

[ISSUEDATE] 2022-03-07 15:32:01

[NEARFIELD]

[LAMPPOSITION] 0,0

[LUMINAIRE] HZCAS35MHTMO4K

[OTHER]

[MANUFAC] BEGHELLI

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

### CHARACTERISTICS

Lumens Per Lamp	11065 (1 lamp)
Total Lamp Lumens	11065
Luminaire Lumens	10960
Total Luminaire Efficiency	99 %
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	77.957
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.60 m
Luminous Width (90-270)	0.45 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8628	9768	14418
55	4907	6944	13106
65	1860	3012	10832
75	59	800	6231
85	0	0	1095

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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>	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
<b>2.5</b>	4014.13	4014.09	4014.18	4014.39	4014.74	4015.21	4015.81	4016.53	4017.37	4018.30
<b>5.0</b>	3946.59	3946.57	3946.80	3947.29	3948.03	3948.95	3950.02	3951.34	3952.90	3954.58
<b>7.5</b>	3879.49	3879.62	3880.12	3880.99	3882.06	3883.46	3885.16	3887.15	3889.37	3891.93
<b>10.0</b>	3812.38	3812.77	3813.66	3814.91	3816.59	3818.64	3820.98	3823.76	3826.56	3829.77
<b>12.5</b>	3745.61	3746.15	3747.27	3748.82	3750.84	3753.11	3755.67	3758.39	3761.30	3764.40
<b>15.0</b>	3678.84	3679.54	3680.86	3682.78	3684.67	3686.75	3688.63	3690.33	3692.44	3694.74
<b>17.5</b>	3503.61	3505.02	3508.36	3513.54	3520.42	3528.11	3536.90	3546.98	3557.82	3571.17
<b>20.0</b>	3328.37	3329.89	3333.35	3338.86	3346.12	3354.71	3364.37	3374.62	3387.68	3401.59
<b>22.5</b>	3153.48	3154.35	3157.21	3162.27	3168.86	3176.97	3186.87	3198.76	3212.61	3228.31
<b>25.0</b>	2978.59	2978.62	2980.76	2984.54	2989.83	2997.20	3006.92	3018.63	3032.31	3047.75
<b>27.5</b>	2804.12	2804.09	2805.98	2809.44	2814.40	2821.52	2830.85	2841.86	2854.56	2868.31
<b>30.0</b>	2629.64	2629.55	2631.25	2634.67	2639.56	2647.01	2656.88	2668.63	2682.02	2696.84
<b>32.5</b>	2465.64	2465.07	2466.12	2468.65	2472.80	2479.53	2488.33	2499.05	2511.59	2526.31
<b>35.0</b>	2301.64	2300.66	2301.26	2303.17	2307.44	2313.83	2321.81	2330.79	2342.56	2356.29
<b>37.5</b>	2138.49	2138.23	2139.73	2142.13	2146.62	2152.60	2159.74	2167.13	2175.70	2186.46
<b>40.0</b>	1975.33	1975.94	1978.48	1981.85	1986.83	1993.54	2000.54	2007.84	2015.58	2025.95
<b>42.5</b>	1811.67	1812.32	1814.50	1817.93	1823.00	1829.22	1836.07	1842.89	1851.37	1863.54
<b>45.0</b>	1648.00	1648.69	1650.38	1653.45	1658.04	1662.54	1666.60	1670.75	1678.14	1690.25
<b>47.5</b>	1426.11	1427.75	1431.99	1438.79	1448.05	1458.42	1468.74	1478.82	1493.32	1512.72
<b>50.0</b>	1204.22	1206.17	1211.21	1218.85	1229.09	1241.04	1253.09	1264.95	1280.27	1301.28
<b>52.5</b>	982.26	983.96	988.58	996.23	1006.68	1020.09	1033.29	1046.78	1065.37	1089.64
<b>55.0</b>	760.30	761.67	765.93	773.49	784.09	797.28	810.09	824.06	845.18	870.00
<b>57.5</b>	538.30	539.95	544.52	552.56	563.70	577.84	591.30	605.76	627.62	650.17
<b>60.0</b>	316.30	318.26	323.22	331.96	343.91	360.33	375.99	390.94	414.42	437.91
<b>62.5</b>	264.33	264.45	264.67	265.36	266.71	268.73	267.31	263.94	265.34	262.68
<b>65.0</b>	212.35	212.24	212.52	213.07	215.02	215.90	213.66	213.18	214.67	210.53
<b>67.5</b>	160.27	160.35	160.80	161.56	163.45	164.65	163.11	163.84	164.64	161.79
<b>70.0</b>	108.18	108.49	109.12	110.25	112.01	113.98	114.20	115.36	117.30	116.37
<b>72.5</b>	56.16	56.47	57.23	58.50	60.41	62.62	64.22	66.48	69.59	70.73
<b>75.0</b>	4.14	4.45	5.33	6.76	8.76	11.27	14.09	17.39	21.09	24.56
<b>77.5</b>	2.07	2.09	2.14	2.20	2.29	2.40	2.53	2.69	2.87	3.09
<b>80.0</b>	0.00	0.01	0.03	0.07	0.13	0.20	0.30	0.41	0.55	0.71
<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>	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
<b>2.5</b>	4019.40	4020.56	4021.84	4023.23	4024.73	4026.35	4028.07	4029.89	4031.82	4033.83
<b>5.0</b>	3956.69	3958.82	3961.20	3963.80	3966.64	3969.65	3972.75	3976.07	3979.61	3983.36
<b>7.5</b>	3894.63	3897.50	3900.69	3904.14	3907.46	3911.09	3915.01	3919.16	3923.38	3930.00
<b>10.0</b>	3833.04	3836.38	3840.07	3843.69	3847.65	3851.94	3856.26	3860.99	3866.03	3871.14
<b>12.5</b>	3767.79	3771.46	3775.59	3780.14	3785.22	3790.45	3795.20	3799.94	3805.21	3810.69
<b>15.0</b>	3697.49	3700.69	3704.09	3708.16	3712.33	3717.39	3722.65	3728.95	3735.61	3743.36
<b>17.5</b>	3585.28	3600.55	3616.69	3629.60	3631.40	3636.02	3640.80	3646.55	3653.38	3661.32
<b>20.0</b>	3416.78	3433.14	3450.16	3468.41	3488.33	3510.01	3533.14	3559.46	3565.54	3574.10
<b>22.5</b>	3245.73	3264.74	3283.78	3303.56	3325.13	3348.51	3373.90	3401.35	3431.72	3463.52
<b>25.0</b>	3064.92	3084.16	3105.80	3129.89	3156.41	3184.02	3215.35	3245.33	3276.97	3310.40
<b>27.5</b>	2883.89	2902.64	2925.30	2950.80	2979.06	3009.92	3043.43	3079.61	3118.70	3153.58
<b>30.0</b>	2713.47	2732.24	2753.43	2776.81	2801.47	2830.72	2865.18	2902.64	2943.38	2987.59

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**CANDELA TABULATION - (Cont.)**

32.5	2543.87	2563.75	2586.17	2609.86	2634.06	2662.24	2691.73	2723.85	2764.91	2810.86
35.0	2373.34	2393.57	2416.25	2440.15	2467.95	2495.80	2526.01	2558.83	2592.53	2630.98
37.5	2200.41	2220.49	2242.15	2266.33	2292.97	2323.24	2357.10	2392.16	2426.87	2462.29
40.0	2039.56	2055.11	2072.68	2090.63	2114.43	2143.41	2174.24	2210.63	2251.92	2291.99
42.5	1878.41	1894.22	1911.23	1928.15	1947.33	1965.10	1988.18	2019.64	2059.67	2103.32
45.0	1706.03	1724.34	1742.67	1763.78	1780.57	1794.04	1813.21	1839.26	1865.70	1891.68
47.5	1531.65	1544.13	1561.59	1578.33	1591.55	1612.42	1642.80	1667.61	1684.71	1681.90
50.0	1325.28	1346.19	1368.97	1381.03	1392.67	1419.94	1449.85	1481.81	1507.42	1507.84
52.5	1115.10	1136.92	1160.58	1173.57	1194.95	1224.64	1252.91	1279.91	1293.88	1307.10
55.0	893.55	920.84	948.55	968.16	997.58	1026.75	1057.02	1077.25	1075.82	1107.13
57.5	671.87	700.58	723.32	752.46	788.91	825.84	863.68	883.26	893.38	926.41
60.0	460.56	488.78	512.36	544.95	578.48	616.29	652.22	676.60	713.52	754.58
62.5	258.37	282.63	310.71	346.15	380.88	417.15	444.75	480.01	523.62	570.04
65.0	210.33	209.31	206.31	207.47	204.47	226.55	262.38	303.46	343.78	382.67
67.5	163.01	160.41	161.43	161.54	160.67	160.83	159.16	159.98	172.74	215.12
70.0	118.33	117.90	119.45	119.34	120.02	118.61	120.34	119.90	120.39	119.17
72.5	74.00	75.70	78.69	80.48	82.51	83.28	85.28	85.28	85.36	85.41
75.0	28.76	32.43	36.76	40.48	44.53	47.57	51.57	54.31	55.94	57.42
77.5	3.34	3.63	3.95	4.28	6.36	11.64	16.84	21.50	25.68	29.65
80.0	0.90	1.12	1.37	1.64	1.95	2.29	2.69	3.14	3.61	4.15
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.49	0.92
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>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	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
2.5	4035.83	4038.12	4040.38	4042.68	4045.06	4047.52	4050.04	4052.63	4055.28	4057.98
5.0	3987.32	3991.35	3995.69	4000.07	4004.64	4009.39	4014.31	4019.39	4024.62	4029.99
7.5	3933.13	3938.55	3944.77	3950.92	3957.42	3964.26	3971.41	3978.34	3986.55	3994.40
10.0	3876.66	3881.85	3888.67	3895.05	3902.78	3910.45	3919.62	3929.07	3939.04	3949.48
12.5	3816.36	3822.58	3829.01	3835.86	3843.32	3851.31	3859.71	3869.56	3882.08	3894.04
15.0	3750.37	3756.65	3763.49	3770.96	3778.45	3787.87	3797.26	3807.40	3818.22	3832.38
17.5	3670.32	3680.48	3691.73	3701.30	3710.04	3719.57	3729.96	3741.04	3752.72	3765.19
20.0	3583.95	3595.14	3607.44	3621.01	3635.75	3647.77	3658.15	3669.20	3681.28	3694.36
22.5	3494.08	3505.04	3517.56	3531.54	3546.93	3563.91	3581.68	3592.90	3605.27	3618.62
25.0	3345.88	3383.36	3422.41	3437.15	3453.55	3471.68	3491.24	3512.23	3525.77	3538.86
27.5	3192.96	3233.14	3276.02	3319.47	3356.38	3374.48	3394.22	3416.04	3443.16	3452.92
30.0	3035.42	3080.97	3125.47	3170.14	3218.83	3265.93	3283.76	3307.55	3332.80	3358.77
32.5	2860.32	2913.14	2974.44	3013.84	3062.53	3111.80	3167.14	3187.33	3213.90	3244.43
35.0	2676.74	2729.26	2785.89	2844.42	2901.39	2949.94	3001.57	3058.22	3087.58	3120.75
37.5	2499.19	2540.45	2591.22	2652.07	2714.60	2777.14	2830.56	2892.07	2952.00	2982.33
40.0	2328.21	2362.49	2386.38	2423.60	2490.80	2570.03	2648.09	2701.36	2746.12	2782.34
42.5	2147.26	2168.47	2180.40	2214.90	2269.86	2348.33	2427.64	2489.86	2530.56	2582.72
45.0	1914.34	1937.16	1976.21	2021.57	2066.78	2116.08	2195.68	2279.72	2349.64	2405.83
47.5	1688.69	1725.30	1777.83	1837.41	1888.34	1934.79	1982.62	2065.52	2160.20	2223.16
50.0	1509.38	1539.79	1584.28	1643.99	1707.53	1758.86	1783.51	1822.56	1925.53	2030.61
52.5	1341.93	1374.84	1409.59	1441.46	1491.70	1539.41	1569.97	1625.31	1704.29	1817.19
55.0	1151.44	1200.18	1242.06	1257.13	1260.99	1310.64	1373.93	1438.29	1480.64	1555.06
57.5	962.12	1001.14	1041.09	1078.47	1095.16	1122.04	1171.91	1244.82	1281.32	1310.72
60.0	788.84	810.05	835.28	877.17	925.15	955.50	974.50	1006.93	1073.43	1131.82
62.5	612.62	644.96	672.43	688.67	719.16	777.68	809.62	822.54	876.79	957.09
65.0	423.46	467.82	511.19	535.45	560.22	574.59	621.62	675.14	682.27	729.96
67.5	257.58	297.59	335.36	378.68	422.94	432.87	446.33	488.89	537.26	547.47

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	119.37	146.37	187.84	227.74	263.01	301.51	328.86	335.28	363.32	414.03
<b>72.5</b>	85.35	86.41	87.07	97.09	135.25	167.18	201.89	233.36	237.29	255.63
<b>75.0</b>	58.07	58.77	58.82	59.91	60.29	62.31	94.64	118.94	147.95	159.53
<b>77.5</b>	32.77	35.69	37.29	38.08	38.17	38.47	39.04	40.43	63.69	84.80
<b>80.0</b>	6.76	11.41	15.44	18.71	21.27	22.70	23.02	22.92	24.64	29.39
<b>82.5</b>	1.40	1.96	2.60	3.32	4.18	7.11	9.93	12.05	13.91	16.06
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.64	1.48	2.52	3.82	6.05
<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>									
	<u><b>75.0</b></u>	<u><b>77.5</b></u>	<u><b>80.0</b></u>	<u><b>82.5</b></u>	<u><b>85.0</b></u>	<u><b>87.5</b></u>	<u><b>90.0</b></u>	<u><b>92.5</b></u>	<u><b>95.0</b></u>	<u><b>97.5</b></u>
<b>0.0</b>	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
<b>2.5</b>	4060.73	4063.53	4066.36	4069.23	4072.13	4075.04	4077.98	4078.79	4079.61	4080.44
<b>5.0</b>	4035.48	4041.09	4046.50	4052.43	4058.38	4064.37	4070.36	4071.92	4073.47	4075.02
<b>7.5</b>	4002.50	4010.84	4019.41	4028.17	4037.11	4046.21	4055.44	4057.62	4059.91	4062.31
<b>10.0</b>	3960.38	3971.69	3983.38	3994.52	4007.36	4020.26	4033.18	4035.74	4038.29	4040.83
<b>12.5</b>	3909.02	3923.29	3938.14	3953.52	3969.38	3985.68	4002.37	4005.47	4008.91	4012.67
<b>15.0</b>	3849.02	3866.46	3884.67	3903.58	3922.17	3943.08	3964.03	3967.24	3970.44	3975.84
<b>17.5</b>	3781.18	3801.48	3822.68	3844.86	3867.96	3891.91	3916.65	3920.29	3924.66	3929.77
<b>20.0</b>	3708.27	3727.83	3752.16	3777.70	3802.54	3831.70	3860.92	3864.27	3867.60	3875.14
<b>22.5</b>	3633.16	3647.34	3674.83	3703.44	3733.49	3764.90	3797.62	3801.73	3807.07	3813.62
<b>25.0</b>	3553.05	3568.31	3589.32	3620.97	3654.39	3688.75	3726.22	3729.87	3736.55	3743.96
<b>27.5</b>	3465.79	3480.49	3497.01	3529.90	3567.20	3606.64	3648.07	3652.62	3659.03	3667.30
<b>30.0</b>	3371.37	3385.97	3402.87	3431.91	3473.88	3517.37	3565.37	3568.57	3576.07	3584.74
<b>32.5</b>	3269.13	3284.10	3300.09	3326.36	3373.61	3424.03	3477.34	3480.19	3485.83	3494.44
<b>35.0</b>	3157.75	3176.47	3192.58	3211.41	3259.97	3314.81	3376.61	3375.60	3381.36	3393.08
<b>37.5</b>	3021.26	3052.89	3062.11	3074.83	3119.37	3187.02	3260.14	3259.52	3263.10	3284.97
<b>40.0</b>	2825.92	2878.45	2893.20	2905.31	2946.11	3027.29	3121.88	3110.66	3112.73	3153.97
<b>42.5</b>	2635.44	2687.65	2718.85	2724.03	2748.61	2827.77	2912.70	2906.76	2907.65	2974.27
<b>45.0</b>	2462.55	2511.75	2563.98	2575.06	2592.54	2666.98	2753.81	2745.72	2750.13	2815.90
<b>47.5</b>	2288.24	2347.71	2406.92	2430.48	2446.67	2520.19	2611.51	2603.73	2613.45	2681.31
<b>50.0</b>	2104.04	2168.05	2229.53	2274.66	2277.50	2344.70	2460.39	2444.31	2469.70	2550.19
<b>52.5</b>	1893.63	1919.18	1989.88	2068.14	2072.84	2143.38	2276.06	2252.99	2295.67	2403.49
<b>55.0</b>	1661.76	1717.78	1786.65	1865.87	1872.72	1910.84	2030.55	2005.98	2081.83	2197.43
<b>57.5</b>	1426.96	1531.46	1589.83	1666.49	1699.22	1726.92	1853.90	1830.76	1899.96	1965.73
<b>60.0</b>	1199.09	1325.08	1356.55	1425.10	1495.26	1506.22	1671.01	1622.06	1733.15	1778.26
<b>62.5</b>	965.92	1058.81	1159.88	1215.37	1303.47	1289.56	1433.48	1394.28	1531.26	1542.29
<b>65.0</b>	797.57	827.76	964.39	985.20	1094.18	1083.79	1236.50	1194.40	1325.12	1331.70
<b>67.5</b>	602.80	651.72	730.90	814.71	878.54	888.08	1011.06	990.00	1085.09	1145.09
<b>70.0</b>	424.20	495.96	519.54	635.80	663.39	698.64	807.63	804.17	872.87	965.57
<b>72.5</b>	308.06	317.45	373.71	427.61	458.42	525.22	613.17	626.95	655.46	731.08
<b>75.0</b>	164.41	210.48	227.83	253.27	318.57	373.81	435.61	466.68	499.60	514.61
<b>77.5</b>	100.40	96.65	128.05	158.56	189.71	228.00	280.00	299.11	337.98	402.75
<b>80.0</b>	42.91	54.88	47.58	65.32	78.18	99.32	153.44	144.48	177.40	216.13
<b>82.5</b>	18.47	22.17	25.50	26.95	32.29	43.13	65.19	71.69	83.06	100.57
<b>85.0</b>	8.59	10.68	11.93	12.46	14.50	16.12	25.79	24.45	28.36	40.87
<b>87.5</b>	0.00	1.24	3.60	5.26	4.75	4.07	6.50	6.34	14.58	24.27
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	3.54	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>100.0</b></u>	<u><b>102.5</b></u>	<u><b>105.0</b></u>	<u><b>107.5</b></u>	<u><b>110.0</b></u>	<u><b>112.5</b></u>	<u><b>115.0</b></u>	<u><b>117.5</b></u>	<u><b>120.0</b></u>	<u><b>122.5</b></u>
<b>0.0</b>	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
<b>2.5</b>	4081.28	4082.12	4082.96	4083.81	4084.65	4085.49	4086.33	4087.17	4087.99	4088.81

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**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	4076.56	4078.54	4080.26	4082.00	4083.76	4085.54	4087.34	4089.15	4090.97	4092.80
<b>7.5</b>	4064.82	4067.43	4070.14	4072.95	4075.85	4078.23	4081.68	4084.68	4087.77	4090.93
<b>10.0</b>	4044.92	4048.34	4051.95	4055.75	4059.76	4063.95	4068.34	4072.72	4077.32	4083.27
<b>12.5</b>	4016.77	4021.19	4025.94	4029.76	4036.13	4041.62	4049.20	4057.70	4066.09	4074.45
<b>15.0</b>	3980.76	3986.16	3992.06	3998.45	4006.85	4017.85	4028.91	4040.08	4050.62	4062.23
<b>17.5</b>	3935.61	3942.20	3949.36	3960.45	3974.65	3989.18	4003.72	4018.27	4032.96	4047.28
<b>20.0</b>	3881.75	3889.31	3901.38	3918.79	3936.54	3954.72	3973.29	3991.68	4007.59	4019.99
<b>22.5</b>	3821.39	3829.96	3851.65	3872.43	3893.83	3915.59	3938.77	3952.52	3967.21	3982.58
<b>25.0</b>	3752.84	3772.15	3796.89	3822.25	3848.14	3872.79	3888.72	3905.31	3922.33	3940.13
<b>27.5</b>	3679.56	3707.59	3736.76	3766.97	3796.61	3814.11	3832.83	3852.69	3873.36	3888.88
<b>30.0</b>	3605.69	3638.02	3671.89	3706.93	3727.65	3747.88	3768.36	3793.50	3811.82	3828.94
<b>32.5</b>	3523.89	3562.71	3601.45	3629.20	3649.84	3673.05	3698.24	3720.69	3743.69	3765.32
<b>35.0</b>	3434.66	3478.74	3519.46	3539.69	3562.88	3589.39	3616.27	3643.99	3672.05	3689.49
<b>37.5</b>	3332.87	3383.64	3413.84	3436.48	3463.15	3495.70	3529.96	3564.38	3583.13	3596.46
<b>40.0</b>	3219.71	3277.31	3298.82	3324.59	3357.62	3396.96	3438.24	3459.22	3474.77	3493.02
<b>42.5</b>	3064.75	3121.18	3153.10	3196.60	3248.03	3295.92	3320.43	3336.54	3356.21	3400.98
<b>45.0</b>	2890.39	2917.45	2946.66	3014.36	3097.27	3148.55	3169.34	3199.09	3260.79	3319.99
<b>47.5</b>	2741.28	2761.58	2795.75	2852.09	2908.82	2922.33	2947.34	3054.61	3158.48	3222.26
<b>50.0</b>	2592.02	2615.83	2665.59	2720.84	2737.76	2751.12	2809.03	2902.98	2985.37	3014.75
<b>52.5</b>	2429.56	2465.56	2533.75	2568.32	2577.32	2628.89	2703.99	2747.27	2760.15	2781.64
<b>55.0</b>	2216.84	2297.47	2380.05	2383.61	2429.45	2519.49	2560.00	2568.50	2592.21	2653.97
<b>57.5</b>	1983.88	2087.89	2135.20	2156.46	2290.32	2361.55	2363.15	2401.25	2468.74	2536.40
<b>60.0</b>	1824.01	1903.91	1904.00	1991.44	2099.53	2109.30	2160.05	2262.10	2328.49	2360.26
<b>62.5</b>	1648.25	1681.17	1727.85	1862.33	1850.73	1894.13	1998.97	2056.59	2108.11	2165.39
<b>65.0</b>	1435.10	1418.71	1568.51	1598.14	1639.51	1753.17	1797.66	1830.89	1877.89	1952.32
<b>67.5</b>	1197.74	1272.36	1336.28	1356.15	1478.11	1519.14	1572.69	1628.83	1670.86	1686.59
<b>70.0</b>	952.34	1094.30	1087.76	1213.45	1246.07	1287.92	1368.38	1391.64	1390.81	1429.01
<b>72.5</b>	804.57	817.20	946.27	978.01	1030.86	1094.51	1087.69	1120.76	1178.96	1247.04
<b>75.0</b>	589.79	674.37	701.49	783.62	813.52	809.16	873.87	943.87	980.06	1013.90
<b>77.5</b>	423.05	456.20	546.99	552.20	588.57	649.78	685.10	713.04	777.84	842.06
<b>80.0</b>	250.03	323.79	323.34	392.46	422.97	446.22	512.05	575.43	635.96	676.86
<b>82.5</b>	143.08	174.76	201.80	231.82	291.10	330.70	362.37	399.55	425.20	397.87
<b>85.0</b>	61.71	83.44	111.94	126.27	135.60	123.21	95.01	51.48	0.00	0.00
<b>87.5</b>	23.08	10.16	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>125.0</b>	<b>127.5</b>	<b>130.0</b>	<b>132.5</b>	<b>135.0</b>	<b>137.5</b>	<b>140.0</b>	<b>142.5</b>	<b>145.0</b>	<b>147.5</b>
<b>0.0</b>	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
<b>2.5</b>	4089.62	4090.37	4091.00	4091.80	4092.48	4093.14	4093.77	4094.38	4094.97	4095.53
<b>5.0</b>	4094.64	4096.33	4098.11	4099.77	4101.40	4103.00	4104.57	4106.11	4107.48	4108.77
<b>7.5</b>	4094.17	4097.04	4100.37	4103.58	4107.09	4110.54	4113.66	4116.59	4119.42	4122.14
<b>10.0</b>	4089.24	4094.43	4100.79	4106.42	4112.01	4117.20	4122.21	4127.10	4131.38	4135.40
<b>12.5</b>	4082.84	4091.11	4099.09	4107.03	4114.64	4121.91	4129.06	4135.98	4141.33	4146.35
<b>15.0</b>	4073.22	4084.09	4094.72	4104.00	4111.82	4119.82	4127.52	4135.27	4142.65	4150.01
<b>17.5</b>	4059.84	4069.95	4080.04	4090.29	4100.42	4110.57	4120.75	4130.71	4139.89	4150.10
<b>20.0</b>	4032.71	4045.69	4058.86	4072.05	4085.44	4098.10	4104.64	4110.91	4117.14	4123.27
<b>22.5</b>	3998.48	4014.78	4031.90	4042.17	4052.02	4061.46	4070.89	4079.39	4087.32	4094.91
<b>25.0</b>	3958.46	3971.29	3984.64	3997.95	4010.82	4023.27	4035.25	4043.17	4051.55	4058.20
<b>27.5</b>	3905.79	3920.78	3936.14	3949.93	3966.36	3975.17	3984.39	3994.02	4003.93	4013.83
<b>30.0</b>	3849.67	3868.70	3883.72	3893.12	3903.62	3915.10	3927.27	3939.74	3954.93	3972.61
<b>32.5</b>	3789.21	3799.30	3810.98	3823.93	3837.93	3854.01	3876.50	3898.44	3918.41	3939.67
<b>35.0</b>	3703.29	3716.56	3731.69	3752.10	3779.24	3809.45	3835.88	3860.70	3884.38	3892.03
<b>37.5</b>	3608.55	3628.90	3663.08	3697.23	3730.90	3763.55	3783.00	3788.90	3795.43	3802.83
<b>40.0</b>	3524.15	3564.91	3603.87	3641.96	3660.76	3668.58	3677.95	3688.74	3699.62	3712.87

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**CANDELA TABULATION - (Cont.)**

42.5	3451.81	3500.37	3530.37	3536.14	3544.70	3555.96	3570.06	3595.41	3619.38	3640.56
45.0	3378.14	3390.04	3399.47	3411.13	3428.74	3458.63	3488.08	3516.69	3542.35	3567.30
47.5	3227.43	3241.09	3259.26	3297.45	3337.80	3373.25	3406.50	3427.90	3448.83	3469.94
50.0	3042.30	3094.26	3149.75	3202.13	3244.42	3268.06	3292.94	3318.45	3344.06	3365.31
52.5	2869.58	2960.11	3038.43	3076.17	3109.89	3141.58	3171.89	3180.64	3185.26	3189.43
55.0	2728.92	2790.94	2841.26	2904.82	2958.00	2974.91	2987.99	2995.20	3006.44	3010.51
57.5	2566.53	2602.98	2637.71	2694.41	2748.57	2774.89	2793.96	2798.42	2798.20	2802.48
60.0	2400.84	2422.60	2446.73	2490.26	2530.40	2540.78	2549.34	2570.95	2585.54	2601.81
62.5	2200.75	2231.04	2241.58	2248.58	2268.61	2291.10	2316.54	2363.24	2401.36	2423.76
65.0	1972.38	1974.79	1993.07	2014.01	2051.07	2089.87	2119.42	2171.61	2218.54	2239.90
67.5	1700.33	1722.25	1782.95	1832.70	1872.29	1899.20	1922.35	1961.72	2016.75	2047.35
70.0	1483.13	1523.90	1582.33	1631.62	1664.91	1693.74	1723.50	1764.53	1826.15	1873.32
72.5	1286.63	1316.53	1347.92	1404.04	1464.93	1515.88	1560.39	1613.40	1672.35	1714.65
75.0	1060.58	1125.27	1181.77	1246.10	1303.87	1358.44	1394.61	1444.09	1495.80	1534.95
77.5	911.46	977.87	1022.54	1071.10	1110.03	1156.10	1201.07	1249.02	1307.24	1293.32
80.0	723.79	771.28	826.06	826.92	772.52	718.57	666.47	606.71	553.39	491.90
82.5	360.13	307.72	250.03	180.45	104.47	25.59	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	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
2.5	4096.07	4096.58	4097.06	4097.45	4097.86	4098.20	4098.51	4098.78	4099.02	4099.22
5.0	4110.00	4111.17	4112.29	4113.17	4114.13	4114.90	4115.62	4116.27	4117.29	4117.37
7.5	4124.36	4126.42	4128.36	4130.03	4131.38	4132.61	4133.64	4134.41	4135.03	4135.52
10.0	4139.17	4142.33	4145.26	4147.71	4149.64	4151.38	4152.50	4153.43	4154.00	4154.92
12.5	4151.18	4155.60	4159.64	4163.23	4166.31	4168.88	4170.92	4172.36	4173.32	4173.71
15.0	4156.85	4163.50	4169.64	4175.27	4180.43	4184.51	4188.08	4190.72	4192.36	4193.34
17.5	4155.97	4160.31	4164.26	4167.89	4170.70	4173.86	4175.73	4177.01	4177.66	4177.19
20.0	4129.22	4134.83	4140.03	4144.90	4149.35	4152.63	4156.06	4158.05	4159.07	4159.16
22.5	4102.32	4108.38	4113.22	4117.98	4122.72	4127.29	4131.38	4134.84	4137.63	4139.53
25.0	4064.88	4071.51	4078.11	4084.65	4091.00	4097.35	4103.64	4109.35	4114.35	4118.62
27.5	4023.66	4033.00	4042.79	4053.03	4062.55	4071.36	4080.20	4088.08	4094.86	4100.45
30.0	3989.09	4004.19	4017.17	4028.72	4039.37	4049.28	4059.11	4068.13	4075.93	4082.66
32.5	3958.77	3976.38	3991.99	3994.46	3997.71	4001.43	4005.93	4011.02	4015.95	4020.81
35.0	3898.90	3905.23	3911.89	3917.96	3923.64	3928.86	3935.50	3941.81	3948.25	3954.30
37.5	3810.74	3819.70	3827.77	3840.70	3852.36	3862.02	3871.10	3879.13	3886.99	3893.68
40.0	3729.52	3745.35	3760.94	3775.37	3788.64	3800.23	3810.35	3819.21	3827.18	3834.05
42.5	3659.48	3677.16	3694.31	3708.41	3720.61	3732.06	3742.90	3752.35	3760.84	3768.49
45.0	3582.19	3596.86	3611.56	3626.60	3641.32	3655.80	3669.89	3682.45	3692.89	3701.91
47.5	3489.95	3506.49	3526.04	3535.45	3535.53	3536.81	3539.35	3541.33	3542.39	3543.39
50.0	3367.11	3366.73	3365.40	3364.95	3366.05	3368.25	3371.20	3373.60	3374.70	3375.24
52.5	3193.16	3194.62	3194.41	3192.65	3191.63	3192.71	3195.36	3198.07	3199.58	3201.29
55.0	3009.48	3008.03	3006.10	3004.62	3005.27	3008.63	3013.71	3018.99	3023.81	3027.05
57.5	2807.21	2810.77	2814.82	2819.09	2824.20	2831.75	2840.27	2848.06	2854.34	2857.81
60.0	2619.55	2632.87	2641.97	2648.13	2654.11	2662.78	2671.71	2680.32	2686.68	2689.49
62.5	2444.84	2460.46	2471.03	2479.90	2488.82	2500.04	2512.57	2523.24	2531.84	2537.33
65.0	2259.55	2283.90	2303.09	2318.05	2330.72	2342.79	2357.10	2369.39	2379.12	2386.46
67.5	2070.30	2100.31	2137.26	2161.02	2179.39	2194.37	2210.88	2223.71	2233.35	2240.32
70.0	1903.71	1948.89	1989.61	2016.56	2036.65	2052.19	2069.15	2080.69	2089.06	2095.49
72.5	1744.19	1789.10	1834.76	1863.19	1885.82	1901.60	1918.36	1930.28	1938.83	1945.39
75.0	1560.33	1597.41	1659.75	1698.04	1727.25	1746.93	1764.46	1779.68	1787.92	1794.99
77.5	1235.93	1185.88	1167.69	1133.04	1093.61	1051.96	1014.18	982.31	953.34	930.96

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	426.01	363.69	313.09	260.66	209.21	161.66	119.55	83.54	53.60	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

**Vert. Horizontal Angles**

	<u><b>175.0</b></u>	<u><b>177.5</b></u>	<u><b>180.0</b></u>	<u><b>182.5</b></u>	<u><b>185.0</b></u>	<u><b>187.5</b></u>	<u><b>190.0</b></u>	<u><b>192.5</b></u>	<u><b>195.0</b></u>	<u><b>197.5</b></u>
<b>0.0</b>	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
<b>2.5</b>	4099.40	4099.53	4099.64	4099.68	4099.69	4099.66	4099.60	4099.51	4099.38	4099.22
<b>5.0</b>	4117.45	4117.53	4117.61	4117.68	4117.76	4117.83	4117.90	4117.11	4116.82	4116.44
<b>7.5</b>	4135.77	4135.90	4135.93	4135.90	4135.77	4135.54	4135.22	4134.82	4134.31	4133.62
<b>10.0</b>	4154.69	4154.47	4154.25	4154.16	4154.07	4154.04	4152.96	4152.32	4151.48	4150.51
<b>12.5</b>	4173.77	4173.52	4173.08	4172.57	4171.95	4171.33	4170.61	4169.83	4168.76	4167.35
<b>15.0</b>	4193.64	4192.85	4191.91	4191.02	4190.34	4189.02	4188.38	4187.59	4186.56	4184.94
<b>17.5</b>	4176.37	4175.39	4174.41	4173.76	4173.59	4173.84	4174.46	4175.06	4175.59	4176.01
<b>20.0</b>	4158.11	4157.64	4156.90	4156.36	4156.08	4156.76	4156.79	4156.50	4156.17	4154.75
<b>22.5</b>	4140.39	4140.58	4140.25	4139.91	4139.89	4139.96	4139.58	4138.50	4136.68	4134.03
<b>25.0</b>	4121.02	4123.03	4123.60	4123.26	4122.60	4123.02	4122.27	4120.56	4118.05	4114.60
<b>27.5</b>	4104.30	4106.20	4106.61	4106.20	4105.51	4104.20	4102.00	4099.15	4095.70	4091.31
<b>30.0</b>	4086.48	4089.09	4089.61	4088.81	4086.87	4084.60	4080.63	4075.97	4070.26	4063.11
<b>32.5</b>	4024.42	4026.35	4027.03	4027.01	4027.03	4026.63	4025.16	4023.47	4020.74	4016.51
<b>35.0</b>	3959.71	3962.26	3964.44	3964.00	3965.02	3965.05	3964.00	3962.17	3958.85	3954.21
<b>37.5</b>	3898.93	3901.20	3901.77	3901.29	3901.37	3900.48	3899.15	3895.83	3892.55	3886.59
<b>40.0</b>	3838.50	3838.99	3839.09	3837.19	3837.21	3835.44	3831.97	3827.27	3820.49	3812.61
<b>42.5</b>	3774.23	3776.68	3776.76	3775.66	3774.96	3773.90	3769.78	3763.44	3755.47	3742.98
<b>45.0</b>	3709.55	3712.93	3714.42	3712.79	3713.01	3712.35	3709.31	3702.35	3692.72	3680.06
<b>47.5</b>	3544.27	3543.40	3542.13	3542.29	3545.31	3549.35	3552.91	3556.61	3559.72	3562.52
<b>50.0</b>	3374.79	3370.25	3369.84	3368.09	3372.60	3374.85	3376.49	3378.03	3378.70	3379.48
<b>52.5</b>	3201.74	3200.05	3198.00	3198.55	3201.77	3204.21	3205.45	3205.96	3204.68	3202.53
<b>55.0</b>	3028.47	3026.16	3026.16	3025.45	3031.24	3034.04	3035.61	3036.66	3035.58	3033.08
<b>57.5</b>	2858.10	2856.06	2854.01	2855.39	2858.20	2859.73	2860.52	2860.84	2859.33	2856.97
<b>60.0</b>	2681.70	2682.69	2681.86	2681.94	2678.57	2684.81	2684.23	2682.45	2678.52	2675.03
<b>62.5</b>	2539.42	2539.28	2538.06	2539.27	2540.42	2538.66	2535.82	2531.33	2521.77	2510.89
<b>65.0</b>	2386.39	2393.16	2394.25	2394.05	2392.16	2395.30	2392.87	2387.31	2377.93	2366.14
<b>67.5</b>	2246.57	2250.35	2250.45	2250.93	2250.78	2247.67	2243.78	2236.81	2225.89	2213.54
<b>70.0</b>	2097.85	2105.35	2106.65	2105.56	2100.29	2099.84	2094.00	2084.14	2070.99	2055.20
<b>72.5</b>	1952.45	1960.18	1962.68	1962.74	1961.05	1955.75	1949.86	1939.29	1923.21	1905.75
<b>75.0</b>	1799.53	1813.09	1818.70	1818.13	1814.76	1812.22	1806.65	1796.98	1779.59	1761.26
<b>77.5</b>	916.25	910.67	909.35	913.25	924.10	940.14	963.78	992.20	1024.29	1062.96
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	54.18	84.38	120.75	163.25
<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**

	<u><b>200.0</b></u>	<u><b>202.5</b></u>	<u><b>205.0</b></u>	<u><b>207.5</b></u>	<u><b>210.0</b></u>	<u><b>212.5</b></u>	<u><b>215.0</b></u>	<u><b>217.5</b></u>	<u><b>220.0</b></u>	<u><b>222.5</b></u>
<b>0.0</b>	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
<b>2.5</b>	4099.03	4098.80	4098.52	4098.16	4097.78	4097.37	4096.93	4096.46	4095.96	4095.43
<b>5.0</b>	4115.99	4115.47	4114.82	4114.06	4113.24	4112.34	4111.37	4110.36	4109.07	4107.77
<b>7.5</b>	4132.80	4131.89	4130.78	4129.48	4128.10	4126.66	4124.79	4122.90	4120.96	4119.09
<b>10.0</b>	4149.06	4147.50	4145.58	4143.34	4141.02	4138.12	4135.14	4132.36	4128.41	4124.82
<b>12.5</b>	4165.48	4163.11	4160.16	4156.62	4152.45	4147.58	4142.23	4136.35	4130.87	4124.91

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**CANDELA TABULATION - (Cont.)**

15.0	4182.97	4179.71	4175.81	4171.06	4165.22	4158.83	4151.13	4143.67	4133.98	4125.45
17.5	4176.18	4175.81	4175.23	4174.48	4173.01	4169.40	4159.62	4148.78	4137.48	4125.51
20.0	4153.03	4150.76	4148.01	4145.75	4141.44	4137.82	4134.31	4131.28	4127.93	4125.44
22.5	4130.30	4125.35	4119.34	4112.61	4106.84	4100.93	4095.81	4091.04	4086.58	4082.45
25.0	4109.82	4103.51	4096.11	4087.88	4078.88	4069.59	4060.32	4048.79	4039.45	4032.28
27.5	4086.35	4078.93	4071.83	4063.07	4052.34	4040.96	4028.40	4014.81	4000.42	3985.17
30.0	4055.17	4046.70	4036.50	4026.28	4015.91	4005.21	3994.31	3980.35	3962.88	3944.59
32.5	4011.64	4005.80	3999.17	3985.94	3972.39	3958.64	3944.52	3932.11	3915.90	3902.22
35.0	3948.16	3940.91	3933.31	3923.83	3914.42	3904.08	3891.48	3873.83	3856.57	3839.63
37.5	3880.99	3874.14	3866.56	3856.20	3845.03	3834.43	3818.75	3804.89	3791.33	3772.47
40.0	3803.63	3794.61	3785.79	3776.94	3767.54	3757.82	3743.89	3727.70	3709.10	3690.71
42.5	3729.59	3715.70	3702.65	3690.20	3676.26	3662.21	3649.01	3637.16	3626.61	3605.06
45.0	3665.40	3650.16	3633.64	3615.16	3590.36	3564.86	3546.84	3530.59	3516.52	3501.98
47.5	3566.72	3573.87	3567.39	3544.86	3518.16	3489.73	3462.05	3431.26	3402.17	3383.77
50.0	3382.19	3387.86	3392.07	3396.08	3400.45	3407.71	3385.51	3350.60	3316.91	3271.76
52.5	3201.46	3200.42	3198.83	3198.97	3201.54	3206.79	3214.19	3219.61	3232.49	3167.86
55.0	3031.07	3028.83	3024.01	3017.37	3012.83	3006.76	2998.58	2992.66	2988.96	2961.15
57.5	2855.79	2854.99	2852.18	2844.68	2839.62	2830.96	2804.39	2772.19	2728.90	2694.03
60.0	2669.89	2665.50	2660.18	2656.65	2654.85	2644.67	2610.78	2572.34	2531.52	2494.35
62.5	2499.22	2485.26	2469.73	2463.17	2453.84	2413.68	2369.40	2354.61	2336.16	2319.40
65.0	2354.29	2337.58	2315.65	2297.40	2274.25	2202.64	2144.20	2129.01	2119.37	2110.02
67.5	2200.30	2182.56	2154.65	2135.08	2112.29	2048.90	1996.62	1966.36	1936.09	1908.59
70.0	2038.43	2012.19	1973.61	1954.47	1928.36	1875.67	1837.95	1807.81	1774.50	1744.43
72.5	1886.06	1846.54	1800.71	1774.35	1733.32	1692.76	1655.94	1613.49	1581.75	1559.53
75.0	1739.91	1699.96	1644.84	1613.97	1578.72	1542.01	1495.75	1436.61	1394.28	1355.61
77.5	1105.25	1140.39	1165.10	1216.62	1274.01	1335.16	1352.36	1281.83	1234.37	1194.24
80.0	211.48	261.73	313.12	374.05	439.24	508.39	572.00	627.52	693.93	761.46
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.20
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	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
2.5	4094.88	4094.30	4093.70	4093.08	4092.44	4091.67	4090.93	4090.18	4089.41	4088.63
5.0	4106.41	4104.99	4103.51	4101.97	4100.54	4098.50	4096.68	4094.84	4092.96	4091.07
7.5	4116.56	4114.19	4111.54	4108.68	4105.54	4102.25	4098.91	4095.51	4092.07	4088.60
10.0	4121.50	4117.01	4112.93	4108.91	4104.67	4100.40	4096.23	4090.90	4085.87	4079.63
12.5	4119.05	4113.04	4106.89	4100.90	4094.82	4088.78	4082.93	4078.01	4071.53	4065.35
15.0	4114.75	4104.75	4095.25	4087.21	4079.25	4071.42	4063.83	4056.22	4048.86	4041.82
17.5	4113.18	4100.55	4087.60	4074.40	4060.58	4048.66	4040.25	4028.66	4019.21	4010.14
20.0	4111.41	4095.89	4079.60	4062.35	4044.72	4026.82	4008.69	3994.04	3983.69	3971.35
22.5	4078.06	4074.19	4070.83	4047.56	4025.93	4004.00	3981.98	3960.21	3939.59	3926.49
25.0	4025.50	4019.26	4013.58	4008.56	4004.24	3978.22	3952.69	3927.92	3902.53	3878.06
27.5	3970.60	3958.80	3951.07	3944.45	3939.10	3935.18	3922.02	3892.41	3862.03	3831.57
30.0	3925.98	3907.41	3888.89	3876.56	3868.90	3862.47	3857.21	3852.79	3815.69	3779.22
32.5	3882.28	3860.42	3837.79	3814.29	3790.26	3779.81	3771.81	3765.79	3761.86	3721.30
35.0	3823.50	3808.61	3786.19	3757.93	3727.50	3697.35	3678.10	3669.70	3663.93	3661.30
37.5	3751.68	3731.50	3712.58	3694.93	3661.61	3627.67	3593.84	3566.46	3555.77	3549.12
40.0	3672.44	3650.37	3627.20	3605.27	3585.17	3555.62	3510.51	3453.23	3394.29	3372.73
42.5	3582.45	3559.71	3535.59	3507.47	3476.25	3443.72	3399.41	3306.85	3218.58	3168.24
45.0	3490.57	3464.70	3429.39	3382.98	3316.08	3257.71	3209.66	3164.09	3097.99	3044.20
47.5	3358.23	3329.13	3301.06	3231.05	3149.83	3088.95	3055.72	3028.62	3002.49	2944.75
50.0	3195.86	3141.00	3102.17	3064.31	3018.61	2972.77	2932.00	2897.98	2872.94	2846.02



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**CANDELA TABULATION - (Cont.)**

52.5	3068.75	2981.69	2917.75	2894.14	2874.48	2860.86	2813.58	2767.75	2730.30	2704.62
55.0	2924.55	2868.49	2815.12	2761.23	2718.33	2698.48	2684.66	2641.56	2586.04	2546.29
57.5	2686.17	2693.65	2706.94	2659.60	2597.09	2533.64	2506.88	2487.59	2444.04	2370.86
60.0	2476.47	2468.91	2474.57	2482.39	2491.22	2418.56	2327.72	2260.36	2243.55	2179.57
62.5	2300.81	2281.06	2253.37	2225.56	2235.65	2248.81	2180.76	2061.09	1995.55	1978.16
65.0	2103.99	2097.76	2065.51	2012.58	1978.23	1942.73	1925.16	1925.04	1835.88	1748.66
67.5	1885.27	1859.86	1818.29	1795.82	1776.57	1713.03	1657.99	1666.03	1680.82	1574.99
70.0	1710.28	1644.79	1560.88	1542.82	1535.10	1508.04	1466.54	1418.02	1361.14	1364.64
72.5	1528.00	1476.11	1400.41	1358.85	1306.00	1233.85	1224.48	1216.55	1155.51	1094.78
75.0	1309.63	1248.79	1208.16	1180.71	1142.31	1065.53	1008.76	943.17	938.75	927.27
77.5	1128.21	1066.00	1014.57	958.60	913.12	871.45	840.09	796.40	733.22	653.54
80.0	809.49	859.24	860.71	802.53	741.94	685.51	632.84	592.29	560.79	527.05
82.5	109.02	188.30	262.54	328.53	386.89	434.30	475.99	446.02	390.72	337.36
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.05	112.79	149.85
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>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
2.5	4087.84	4087.04	4086.24	4085.43	4084.62	4083.80	4082.99	4082.18	4081.38	4078.44
5.0	4089.16	4087.25	4085.32	4083.40	4081.49	4079.59	4077.71	4075.85	4074.03	4068.26
7.5	4085.37	4081.38	4077.76	4074.18	4070.67	4067.23	4063.88	4060.63	4057.48	4049.08
10.0	4073.97	4068.39	4062.89	4057.50	4052.23	4047.10	4042.13	4037.33	4032.73	4021.79
12.5	4057.57	4049.90	4043.18	4034.72	4027.38	4020.29	4013.47	4006.94	4000.74	3987.42
15.0	4036.16	4025.95	4015.66	4005.61	3995.85	3986.42	3977.36	3968.71	3960.53	3944.96
17.5	4001.44	3993.32	3983.33	3972.01	3958.34	3946.53	3935.26	3924.58	3914.54	3896.46
20.0	3961.02	3952.27	3942.55	3930.28	3915.49	3901.41	3888.07	3875.49	3863.70	3843.03
22.5	3916.37	3903.55	3893.49	3884.44	3867.98	3851.13	3835.16	3820.16	3806.20	3783.32
25.0	3862.63	3849.74	3840.60	3827.48	3814.30	3793.77	3774.30	3756.02	3739.06	3714.36
27.5	3801.36	3785.05	3771.25	3759.29	3750.58	3726.25	3702.80	3680.95	3660.85	3634.81
30.0	3744.10	3709.67	3694.05	3680.45	3668.99	3650.02	3622.67	3597.29	3574.03	3546.13
32.5	3679.64	3639.18	3609.19	3593.84	3581.17	3566.90	3533.91	3503.06	3474.82	3442.99
35.0	3613.38	3564.62	3513.28	3492.26	3471.59	3460.95	3415.81	3366.97	3321.95	3293.04
37.5	3536.43	3459.45	3378.33	3309.76	3289.81	3277.68	3235.82	3179.34	3129.67	3106.42
40.0	3359.18	3306.47	3215.41	3139.13	3116.32	3105.52	3082.18	3038.68	3000.28	2971.19
42.5	3157.91	3150.66	3095.63	3032.42	2992.40	2983.70	2965.97	2918.97	2876.60	2847.00
45.0	3016.86	3013.40	3003.76	2929.90	2865.76	2853.20	2846.78	2792.75	2744.49	2714.79
47.5	2888.68	2873.29	2874.42	2823.66	2743.63	2714.44	2709.11	2658.23	2603.67	2574.87
50.0	2780.01	2719.18	2717.98	2705.39	2618.05	2563.40	2559.37	2512.78	2449.88	2414.04
52.5	2663.07	2588.84	2552.27	2555.94	2479.53	2380.53	2378.80	2324.05	2222.82	2210.73
55.0	2521.80	2456.27	2348.17	2340.30	2300.89	2151.75	2131.45	2097.94	2016.24	1997.53
57.5	2307.61	2277.29	2149.92	2084.07	2096.09	1993.29	1950.23	1933.09	1850.15	1829.97
60.0	2076.09	2040.83	2003.35	1904.36	1902.12	1839.90	1753.69	1754.75	1635.00	1632.04
62.5	1926.75	1848.59	1828.59	1743.69	1661.22	1655.32	1511.35	1527.01	1414.78	1415.76
65.0	1734.86	1668.35	1577.96	1558.07	1421.97	1440.91	1316.81	1331.12	1216.79	1209.01
67.5	1468.68	1462.11	1380.46	1331.86	1265.20	1200.07	1122.00	1097.86	1000.95	985.34
70.0	1315.10	1198.21	1210.51	1090.03	1077.68	948.79	948.72	888.76	801.77	777.75
72.5	1085.11	1042.85	930.72	935.85	842.40	784.82	760.96	667.68	601.17	567.14
75.0	838.16	801.79	785.32	684.25	667.34	621.25	529.07	461.43	417.49	377.30
77.5	646.59	608.51	533.91	539.84	462.97	395.68	355.09	310.83	261.37	231.62
80.0	458.07	390.52	392.15	325.71	332.11	272.50	238.71	206.82	139.42	140.20
82.5	299.78	276.44	229.57	186.86	167.87	158.42	120.02	87.01	58.39	53.34
85.0	172.99	152.16	115.86	96.83	76.85	62.86	50.12	36.67	22.43	23.18
87.5	0.00	0.00	0.00	14.70	27.22	25.18	19.44	13.91	6.39	8.63

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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	5.31	0.00
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>275.0</u></b>	<b><u>277.5</u></b>	<b><u>280.0</u></b>	<b><u>282.5</u></b>	<b><u>285.0</u></b>	<b><u>287.5</u></b>	<b><u>290.0</u></b>	<b><u>292.5</u></b>	<b><u>295.0</u></b>	<b><u>297.5</u></b>
0.0	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
2.5	4075.51	4072.60	4069.71	4066.85	4064.03	4061.24	4058.50	4055.81	4053.17	4050.59
5.0	4062.54	4056.87	4051.27	4045.75	4040.31	4034.97	4029.73	4024.61	4019.60	4014.73
7.5	4040.82	4032.70	4024.74	4016.95	4009.34	4001.92	3995.05	3987.59	3980.59	3973.80
10.0	4011.07	4000.59	3990.37	3980.42	3970.76	3961.40	3952.35	3943.63	3935.79	3927.04
12.5	3974.47	3961.90	3949.72	3937.95	3927.50	3915.54	3904.79	3894.46	3882.89	3872.00
15.0	3929.90	3915.38	3901.42	3888.03	3875.22	3863.01	3851.12	3834.85	3820.52	3807.09
17.5	3879.09	3862.43	3846.52	3832.72	3816.93	3800.21	3782.03	3764.91	3748.76	3733.68
20.0	3823.23	3804.35	3786.43	3769.51	3750.46	3729.30	3707.73	3688.29	3671.45	3653.43
22.5	3761.59	3741.01	3721.63	3702.21	3675.74	3650.89	3629.52	3606.00	3585.91	3574.41
25.0	3691.11	3669.28	3648.87	3621.60	3594.70	3564.56	3538.94	3516.73	3505.15	3495.47
27.5	3610.64	3588.30	3567.19	3531.09	3498.81	3469.06	3444.49	3429.85	3418.90	3409.56
30.0	3520.53	3497.26	3465.82	3427.63	3392.79	3360.75	3348.66	3337.64	3328.88	3320.20
32.5	3414.59	3389.95	3343.97	3298.39	3260.12	3243.48	3238.87	3234.76	3231.86	3149.43
35.0	3268.77	3242.40	3181.52	3129.52	3085.10	3087.09	3095.12	3108.17	3026.98	2949.82
37.5	3088.76	3058.55	3002.82	2949.69	2925.97	2918.09	2916.48	2856.61	2784.55	2714.72
40.0	2946.65	2903.19	2849.10	2804.95	2795.12	2788.12	2734.47	2646.77	2564.73	2508.07
42.5	2822.39	2769.26	2708.12	2679.31	2673.13	2650.40	2552.02	2460.36	2393.09	2339.98
45.0	2690.84	2621.60	2558.68	2547.33	2547.71	2458.23	2357.98	2280.87	2226.33	2174.60
47.5	2542.74	2466.41	2415.05	2413.65	2369.83	2247.11	2148.88	2104.34	2056.16	1978.94
50.0	2361.36	2264.30	2238.80	2256.83	2154.49	2030.44	1958.11	1901.93	1826.12	1758.07
52.5	2155.92	2048.67	2032.07	2004.75	1886.62	1809.99	1765.96	1679.16	1577.50	1518.28
55.0	1935.99	1858.38	1861.52	1767.06	1644.24	1605.90	1551.18	1457.30	1384.47	1345.73
57.5	1739.85	1687.83	1698.35	1548.52	1456.81	1397.34	1296.47	1242.99	1216.36	1169.22
60.0	1516.88	1476.91	1425.81	1299.23	1272.74	1171.77	1074.53	1052.61	1024.16	956.65
62.5	1302.98	1303.85	1188.30	1107.18	1044.60	939.18	916.77	866.64	801.41	766.32
65.0	1079.20	1088.82	947.62	937.24	826.25	777.07	742.83	676.03	629.77	611.00
67.5	897.45	848.34	767.99	698.02	637.45	615.83	541.82	513.25	485.13	440.41
70.0	719.17	611.80	594.45	495.61	488.44	417.27	394.87	364.86	331.20	306.84
72.5	540.83	449.30	384.48	370.82	308.44	284.88	259.73	230.20	214.47	190.64
75.0	347.96	308.48	255.58	216.32	193.57	170.84	152.47	139.27	107.18	65.75
77.5	198.24	154.92	142.82	120.68	101.36	93.99	74.13	41.33	42.54	44.85
80.0	109.39	87.23	65.09	55.30	52.97	30.49	26.47	27.20	26.00	24.31
82.5	42.75	32.55	29.29	24.48	19.62	17.20	14.36	12.12	9.99	7.11
85.0	21.23	16.87	14.11	11.45	8.53	5.96	3.73	2.47	1.46	0.62
87.5	6.33	5.86	3.72	1.24	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>									
	<b><u>300.0</u></b>	<b><u>302.5</u></b>	<b><u>305.0</u></b>	<b><u>307.5</u></b>	<b><u>310.0</u></b>	<b><u>312.5</u></b>	<b><u>315.0</u></b>	<b><u>317.5</u></b>	<b><u>320.0</u></b>	<b><u>322.5</u></b>
0.0	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
2.5	4048.07	4045.62	4043.30	4040.93	4038.65	4036.45	4034.34	4032.32	4030.40	4028.57
5.0	4009.99	4005.40	4001.28	3996.65	3992.39	3988.30	3984.38	3980.65	3977.11	3973.85
7.5	3967.22	3960.87	3954.75	3948.80	3942.94	3939.53	3931.48	3926.36	3920.88	3915.95
10.0	3920.06	3910.02	3901.58	3893.54	3885.74	3878.47	3872.13	3865.09	3858.89	3853.66
12.5	3859.98	3849.31	3839.30	3829.86	3820.90	3812.63	3804.92	3797.82	3791.47	3785.28
15.0	3794.52	3782.43	3771.26	3760.82	3750.98	3743.29	3736.62	3731.37	3724.97	3720.66
17.5	3721.51	3706.82	3696.67	3689.59	3682.81	3676.44	3670.27	3664.42	3658.87	3653.54
20.0	3640.51	3632.00	3624.32	3617.59	3611.73	3606.28	3601.41	3596.68	3563.74	3534.65
22.5	3564.58	3556.10	3548.81	3542.43	3537.79	3501.46	3464.05	3429.09	3396.10	3365.26

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**CANDELA TABULATION - (Cont.)**

25.0	3485.64	3477.40	3469.93	3422.86	3377.52	3334.90	3294.87	3257.48	3222.63	3192.55
27.5	3401.52	3364.19	3309.57	3257.97	3209.55	3164.27	3124.56	3090.08	3058.75	3029.22
30.0	3258.48	3197.68	3140.28	3086.30	3039.10	3000.29	2963.63	2928.87	2896.30	2865.84
32.5	3079.97	3018.61	2967.53	2920.79	2878.94	2839.07	2801.53	2765.05	2725.23	2690.32
35.0	2876.66	2820.18	2785.69	2755.18	2718.01	2673.93	2626.08	2582.10	2541.78	2505.25
37.5	2669.17	2628.69	2587.72	2560.64	2514.31	2475.59	2436.89	2395.79	2359.99	2331.51
40.0	2469.48	2436.71	2387.33	2325.00	2270.68	2233.79	2231.74	2217.91	2189.77	2161.87
42.5	2291.68	2233.22	2173.33	2112.36	2062.05	2039.06	2037.65	2039.29	2023.48	1982.09
45.0	2102.98	2034.18	1970.69	1932.67	1902.99	1875.91	1856.27	1840.27	1821.71	1790.55
47.5	1903.90	1840.96	1801.10	1764.65	1740.94	1699.95	1664.38	1635.53	1613.41	1600.32
50.0	1709.73	1671.61	1633.92	1585.60	1534.90	1496.84	1475.56	1460.09	1444.31	1427.21
52.5	1516.25	1500.64	1442.75	1390.15	1339.56	1309.10	1304.20	1298.62	1284.84	1245.75
55.0	1312.97	1269.66	1226.00	1199.56	1170.43	1138.68	1119.53	1101.61	1067.99	1031.20
57.5	1107.88	1051.35	1027.66	1023.14	999.43	952.67	906.86	871.68	852.05	823.05
60.0	912.38	890.17	859.45	822.15	793.83	754.84	714.87	677.67	656.79	628.03
62.5	738.32	720.45	678.16	631.92	596.56	575.46	539.81	498.90	465.62	428.93
65.0	569.20	526.95	502.78	472.05	435.26	405.23	359.99	313.84	268.17	227.69
67.5	408.26	380.02	353.80	317.86	271.76	225.79	177.49	162.18	161.79	164.12
70.0	278.65	245.77	201.81	157.04	126.42	126.60	127.54	127.59	126.30	126.77
72.5	147.44	103.85	94.85	96.18	96.52	96.06	94.47	91.51	89.09	85.88
75.0	65.94	68.32	69.88	68.14	65.24	62.64	59.32	55.44	51.94	47.64
77.5	44.84	43.49	41.01	38.06	34.81	31.06	26.59	21.98	16.96	11.72
80.0	21.98	19.48	16.12	11.96	6.97	4.22	3.67	3.16	2.71	2.32
82.5	4.06	3.21	2.55	1.97	1.41	0.94	0.50	0.11	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	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66	4081.66
2.5	4026.85	4025.23	4023.72	4022.32	4021.05	4019.84	4018.71	4017.70	4016.81	4016.05
5.0	3970.51	3967.43	3964.55	3961.90	3959.48	3957.22	3955.11	3953.23	3951.60	3950.21
7.5	3911.39	3907.27	3903.11	3899.38	3896.03	3892.95	3890.12	3887.67	3885.56	3883.66
10.0	3847.78	3842.76	3838.26	3833.90	3830.09	3826.60	3823.42	3820.77	3818.26	3816.29
12.5	3780.64	3776.07	3771.82	3767.76	3763.95	3760.44	3757.23	3754.33	3751.77	3749.57
15.0	3715.28	3711.12	3706.65	3702.61	3698.61	3694.89	3691.85	3688.22	3685.41	3682.93
17.5	3648.79	3644.69	3628.27	3608.60	3590.07	3573.38	3558.50	3545.25	3533.70	3523.99
20.0	3506.75	3481.26	3457.95	3437.70	3417.75	3400.51	3385.05	3371.31	3359.82	3349.34
22.5	3336.55	3309.92	3285.75	3263.54	3244.68	3227.93	3212.91	3199.29	3187.21	3176.91
25.0	3167.22	3142.17	3118.86	3097.18	3077.24	3059.29	3043.35	3028.92	3016.07	3005.06
27.5	3001.98	2976.71	2952.78	2930.21	2908.31	2887.89	2870.84	2854.55	2840.85	2829.33
30.0	2835.05	2804.81	2777.39	2752.31	2729.48	2709.37	2691.17	2675.77	2662.72	2651.81
32.5	2655.06	2624.02	2595.69	2570.68	2548.66	2533.20	2519.17	2506.84	2496.14	2486.92
35.0	2471.95	2447.27	2426.20	2407.26	2391.26	2375.44	2361.03	2348.00	2336.29	2326.41
37.5	2309.09	2289.23	2267.10	2248.69	2232.87	2216.24	2200.51	2185.77	2173.41	2162.03
40.0	2141.46	2123.50	2100.49	2079.19	2061.31	2046.33	2032.33	2019.27	2006.96	1996.23
42.5	1950.65	1930.77	1919.23	1903.31	1886.75	1875.34	1865.83	1855.47	1844.90	1833.81
45.0	1759.15	1733.90	1734.25	1735.77	1723.43	1714.69	1706.36	1696.12	1684.52	1673.08
47.5	1580.87	1560.08	1560.57	1570.00	1560.90	1547.27	1526.81	1505.99	1486.13	1467.46
50.0	1407.75	1382.70	1361.36	1357.69	1341.68	1318.97	1297.91	1278.27	1260.49	1244.39
52.5	1205.43	1167.49	1136.41	1118.06	1110.25	1092.45	1071.89	1053.94	1038.14	1023.69
55.0	993.21	954.68	926.05	901.80	893.28	877.05	854.20	834.10	818.25	803.94
57.5	792.46	755.42	725.74	698.39	682.40	662.36	635.65	612.38	593.57	581.28
60.0	596.74	555.98	520.14	490.28	463.35	439.26	414.25	388.62	366.93	356.35

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**CANDELA TABULATION - (Cont.)**

62.5	389.38	351.58	310.81	280.42	257.21	256.44	261.59	258.80	258.32	265.31
65.0	203.63	209.54	207.28	210.25	211.81	211.13	214.08	211.05	210.26	215.61
67.5	164.44	167.99	165.52	167.44	166.81	164.51	165.75	162.52	160.73	163.46
70.0	124.92	125.09	122.41	120.07	119.74	116.65	116.30	113.56	111.08	110.70
72.5	83.74	80.65	78.91	74.57	73.29	70.06	67.78	65.17	62.18	60.35
75.0	44.35	40.14	36.81	32.03	28.46	24.33	20.52	17.04	13.67	10.87
77.5	6.37	4.23	3.85	3.53	3.25	3.01	2.80	2.62	2.45	2.32
80.0	1.96	1.62	1.33	1.09	0.88	0.69	0.54	0.40	0.29	0.20
82.5	0.00	0.00	0.00	0.00	0.00	0.00	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. Horizontal Angles**

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	4081.66	4081.66	4081.66	4081.66	4081.66
2.5	4015.41	4014.89	4014.51	4014.25	4014.13
5.0	3949.01	3948.02	3947.29	3946.81	3946.59
7.5	3882.14	3881.01	3880.12	3879.61	3879.49
10.0	3814.65	3813.43	3812.67	3812.27	3812.38
12.5	3747.82	3746.51	3745.88	3745.40	3745.61
15.0	3680.92	3679.51	3678.73	3678.49	3678.84
17.5	3516.12	3510.04	3505.95	3503.83	3503.61
20.0	3341.16	3334.94	3330.74	3328.55	3328.37
22.5	3168.41	3161.83	3157.20	3154.44	3153.48
25.0	2995.90	2988.83	2983.76	2980.46	2978.59
27.5	2820.03	2812.98	2808.22	2805.45	2804.12
30.0	2643.15	2636.60	2632.37	2630.36	2629.64
32.5	2479.29	2473.54	2469.36	2467.03	2465.64
35.0	2318.20	2311.63	2307.05	2303.93	2301.64
37.5	2153.79	2146.92	2142.53	2139.78	2138.49
40.0	1987.67	1981.75	1977.55	1975.51	1975.33
42.5	1825.39	1819.59	1814.80	1812.43	1811.67
45.0	1664.21	1657.42	1652.26	1649.44	1648.00
47.5	1451.74	1440.33	1432.08	1427.48	1426.11
50.0	1228.73	1217.15	1209.21	1204.81	1204.22
52.5	1008.05	996.05	987.86	983.28	982.26
55.0	787.84	775.25	766.71	761.82	760.30
57.5	566.09	553.28	544.08	539.33	538.30
60.0	344.00	331.16	321.55	316.89	316.30
62.5	266.83	265.12	263.68	263.67	264.33
65.0	215.56	213.65	212.27	212.08	212.35
67.5	163.67	161.86	160.39	160.04	160.27
70.0	111.70	110.00	108.52	108.00	108.18
72.5	60.11	58.31	56.88	56.20	56.16
75.0	8.62	6.66	5.26	4.41	4.14
77.5	2.22	2.15	2.10	2.07	2.07
80.0	0.12	0.07	0.03	0.01	0.00
82.5	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1493.16	13.50	13.60
0-30	3171.47	28.70	28.90
0-40	5187.53	46.90	47.30
0-60	9013.67	81.50	82.20
0-80	10907.47	98.60	99.50
0-90	10959.76	99.00	100.00
10-90	10575.02	95.60	96.50
20-40	3694.37	33.40	33.70
20-50	5757.01	52.00	52.50
40-70	5057.42	45.70	46.10
60-80	1893.81	17.10	17.30
70-80	662.52	6.00	6.00
80-90	52.29	0.50	0.50
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	10959.76	99.00	100.00

Total Luminaire Efficiency = 99.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	384.73
10-20	1108.43
20-30	1678.3
30-40	2016.07
40-50	2062.64
50-60	1763.49
60-70	1231.28
70-80	662.52
80-90	52.29
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**  
**PHOTOMETRIC FILENAME : HZCAS35MHTMO4K.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99
1	108	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	87	85
2	99	91	85	79	96	89	83	78	86	81	76	83	78	75	80	76	73	71
3	90	80	72	66	88	79	71	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	61	55	65	59	54	63	58	54	52
5	76	64	55	49	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	70	57	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	65	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

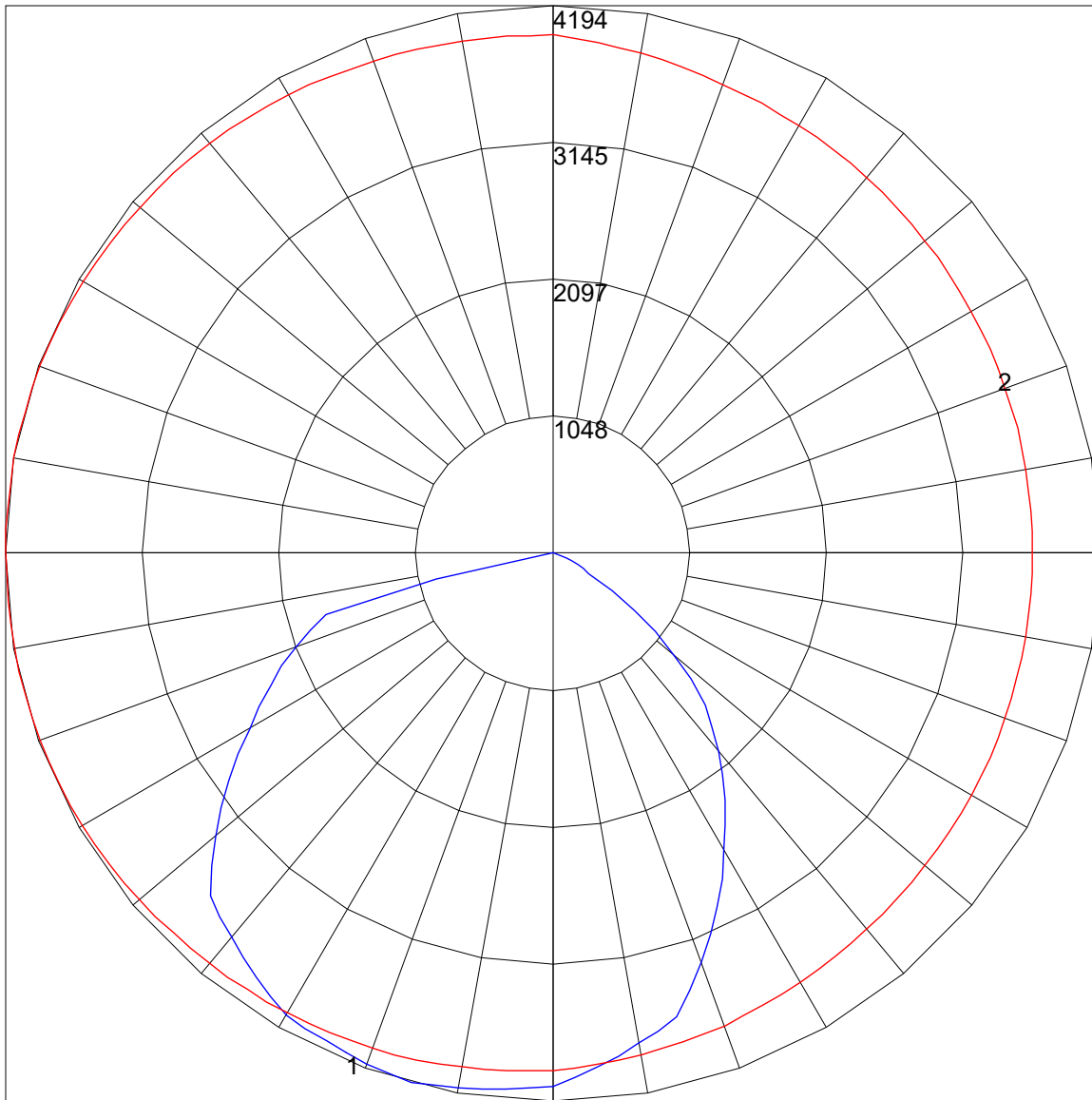
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35MHTMO4K.IES**

**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					UGR Viewed Endwise				
X=2H	Y=2H	10.0	11.3	10.3	11.6	11.9	8.4	8.4	8.4	8.4	8.4
	3H	10.3	11.5	10.7	11.8	12.2	8.4	8.4	8.4	8.4	8.4
	4H	10.2	11.3	10.7	11.7	12.0	8.4	8.4	8.4	8.4	8.4
	6H	10.2	11.1	10.6	11.5	11.9	8.4	8.4	8.4	8.4	8.4
	8H	10.1	11.0	10.5	11.4	11.8	8.4	8.4	8.4	8.4	8.4
	12H	10.1	11.0	10.5	11.3	11.8	8.4	8.4	8.4	8.4	8.4
4H	2H	9.8	10.9	10.2	11.2	11.6	8.4	8.4	8.4	8.4	8.4
	3H	10.2	11.1	10.6	11.5	11.9	8.4	8.4	8.4	8.4	8.4
	4H	10.1	10.9	10.6	11.3	11.8	8.4	8.4	8.4	8.4	8.4
	6H	10.0	10.7	10.5	11.1	11.6	8.4	8.4	8.4	8.4	8.4
	8H	10.0	10.6	10.5	11.0	11.5	8.4	8.4	8.4	8.4	8.4
	12H	9.9	10.5	10.4	11.0	11.4	8.4	8.4	8.4	8.4	8.4
8H	4H	10.0	10.6	10.5	11.0	11.5	8.4	8.4	8.4	8.4	8.4
	6H	9.9	10.4	10.4	10.9	11.4	8.4	8.4	8.4	8.4	8.4
	8H	9.8	10.3	10.4	10.8	11.3	8.4	8.4	8.4	8.4	8.4
	12H	9.8	10.2	10.3	10.7	11.2	8.4	8.4	8.4	8.4	8.4
12H	4H	9.9	10.5	10.4	11.0	11.4	8.4	8.4	8.4	8.4	8.4
	6H	9.8	10.3	10.4	10.7	11.3	8.4	8.4	8.4	8.4	8.4
	8H	9.8	10.2	10.3	10.7	11.2	8.4	8.4	8.4	8.4	8.4

Maximum UGR = 12.2

POLAR GRAPH



Maximum Candela = 4193.64 Located At Horizontal Angle = 175, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (175 - 355) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)