



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-A4-400W-5000K-D120.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] HZX-EX-A4-400W-5000K-D120  
[TESTLAB] EVERFINE  
[TESTDATE] 21 August 2021  
[ISSUEDATE] 2021-08-21 17:18:08  
[NEARFIELD]  
[LAMPPOSITION] 0,0  
[OTHER] EVERFINE GO-2000A\_V1 SYSTEM  
[MANUFAC] BELUCE CANADA INC.  
[LUMINAIRE] HZX-EX-A4-400W-5000K-D120  
[LUMCAT] ] HZX-EX-A4-400W-5000K-D120  
[LAMP] 57521 LUMENS  
[\_SEARCH\_SOURCETYPE] LED

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

### CHARACTERISTICS

Lumens Per Lamp	57521 (1 lamp)
Total Lamp Lumens	57521
Luminaire Lumens	57521
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	396.032
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20067.27	20067.03	20067.19	20067.74	20068.68	20070.01	20071.72	20073.83	20076.31	20079.01
<b>5.0</b>	19863.31	19862.47	19862.41	19863.13	19864.64	19866.57	19868.68	19871.60	19875.32	19878.96
<b>7.5</b>	19660.81	19660.34	19661.00	19662.70	19664.27	19666.75	19669.80	19673.75	19677.93	19683.17
<b>10.0</b>	19458.30	19458.73	19460.65	19462.64	19465.45	19468.93	19472.51	19477.40	19481.81	19487.48
<b>12.5</b>	19255.06	19254.41	19255.27	19255.84	19257.64	19259.58	19262.54	19266.07	19270.62	19276.12
<b>15.0</b>	19051.82	19049.60	19048.15	19046.58	19045.75	19045.32	19045.24	19045.74	19047.78	19049.54
<b>17.5</b>	18600.31	18600.91	18604.64	18611.44	18621.11	18632.56	18647.07	18664.64	18681.72	18706.45
<b>20.0</b>	18148.79	18151.32	18156.80	18165.03	18175.84	18189.16	18205.06	18220.77	18243.51	18266.54
<b>22.5</b>	17696.55	17696.88	17699.66	17706.34	17715.08	17726.83	17742.06	17760.68	17783.11	17810.07
<b>25.0</b>	17244.30	17241.91	17242.01	17244.27	17248.98	17256.64	17267.42	17281.75	17300.62	17323.85
<b>27.5</b>	16793.51	16792.38	16793.58	16796.17	16799.90	16804.91	16811.26	16819.12	16830.27	16842.36
<b>30.0</b>	16342.71	16343.32	16346.44	16350.64	16354.92	16359.60	16365.06	16372.18	16381.37	16391.17
<b>32.5</b>	15716.38	15716.80	15722.35	15732.02	15744.84	15763.06	15786.85	15817.13	15853.59	15895.98
<b>35.0</b>	15090.05	15088.28	15090.43	15094.65	15103.21	15116.26	15134.91	15157.13	15190.09	15226.19
<b>37.5</b>	14464.68	14466.09	14471.29	14476.05	14483.65	14492.60	14505.73	14520.87	14538.96	14557.34
<b>40.0</b>	13839.31	13844.44	13853.01	13860.66	13869.00	13879.24	13891.35	13906.79	13922.75	13936.81
<b>42.5</b>	13214.19	13217.33	13221.37	13225.51	13231.00	13239.17	13252.89	13270.60	13288.39	13305.85
<b>45.0</b>	12589.06	12589.89	12588.37	12586.59	12586.24	12588.07	12595.32	12602.72	12603.85	12602.18
<b>47.5</b>	11559.20	11567.24	11582.65	11604.40	11634.61	11674.07	11723.19	11770.86	11812.07	11851.23
<b>50.0</b>	10529.33	10540.44	10560.75	10585.73	10619.79	10661.35	10708.08	10748.00	10776.18	10805.09
<b>52.5</b>	9500.56	9509.59	9525.62	9548.24	9581.51	9622.35	9662.08	9685.95	9712.03	9755.03
<b>55.0</b>	8471.79	8478.26	8489.82	8510.19	8540.85	8570.02	8584.98	8576.23	8588.84	8624.63
<b>57.5</b>	7442.27	7450.25	7465.17	7486.73	7518.11	7543.63	7540.06	7501.76	7492.18	7509.70
<b>60.0</b>	6412.75	6422.54	6441.51	6465.45	6501.32	6528.34	6519.85	6465.63	6446.25	6479.84
<b>62.5</b>	5467.14	5474.75	5488.02	5506.35	5534.87	5551.63	5527.19	5466.06	5447.41	5487.03
<b>65.0</b>	4521.53	4527.59	4537.06	4552.86	4576.08	4584.21	4548.49	4507.18	4521.04	4566.51
<b>67.5</b>	3575.20	3582.18	3594.03	3608.47	3632.59	3645.07	3619.96	3592.60	3617.34	3660.06
<b>70.0</b>	2628.87	2636.88	2651.54	2666.24	2693.19	2717.97	2717.39	2706.25	2735.60	2783.41
<b>72.5</b>	1683.58	1690.72	1703.08	1715.68	1744.59	1774.51	1791.45	1801.12	1843.92	1896.88
<b>75.0</b>	738.29	744.50	754.28	764.92	794.97	830.05	859.58	890.28	943.31	995.79
<b>77.5</b>	369.15	371.37	373.46	374.08	382.53	391.52	395.48	399.87	412.40	418.11
<b>80.0</b>	0.00	1.38	5.48	12.14	21.50	33.28	46.52	61.43	78.82	96.05
<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>	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20082.18	20085.38	20088.96	20092.91	20097.22	20101.87	20106.88	20112.22	20117.88	20123.86
<b>5.0</b>	19884.63	19889.82	19895.81	19902.60	19910.18	19918.33	19926.65	19935.74	19945.59	19956.18
<b>7.5</b>	19688.65	19694.52	19701.41	19709.19	19716.65	19725.12	19734.57	19744.69	19754.86	19772.27
<b>10.0</b>	19493.45	19499.81	19507.09	19514.77	19523.27	19532.73	19542.07	19552.76	19564.52	19576.35
<b>12.5</b>	19282.61	19290.19	19299.00	19308.84	19320.52	19332.75	19342.36	19352.02	19363.22	19375.06
<b>15.0</b>	19052.72	19057.24	19063.02	19071.05	19079.96	19091.56	19104.21	19119.78	19136.82	19157.08
<b>17.5</b>	18731.87	18760.32	18791.89	18817.93	18820.92	18832.24	18843.06	18855.55	18870.85	18889.02
<b>20.0</b>	18292.83	18322.49	18354.90	18390.82	18430.37	18473.40	18518.63	18571.39	18580.83	18595.50
<b>22.5</b>	17841.88	17878.37	17914.64	17950.40	17988.81	18030.84	18076.72	18125.50	18180.15	18237.67
<b>25.0</b>	17351.51	17384.39	17422.99	17467.53	17518.43	17569.04	17628.53	17676.67	17727.75	17781.99
<b>27.5</b>	16856.40	16878.50	16913.05	16953.68	17000.39	17053.09	17112.15	17178.20	17252.32	17297.70
<b>30.0</b>	16401.84	16416.34	16434.34	16454.15	16473.30	16505.41	16554.04	16611.16	16674.59	16744.43

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**CANDELA TABULATION - (Cont.)**

32.5	15946.36	15958.38	15972.50	15985.75	15991.15	16002.60	16008.88	16003.03	16021.74	16055.98
35.0	15271.09	15323.74	15384.28	15446.88	15509.59	15504.51	15486.62	15436.36	15345.49	15278.22
37.5	14576.70	14620.52	14656.49	14694.78	14746.46	14808.95	14861.94	14818.03	14700.85	14592.09
40.0	13949.12	13952.61	13934.60	13907.25	13898.83	13906.02	13913.28	13924.70	13938.37	13910.98
42.5	13316.48	13302.07	13252.69	13192.32	13119.46	13044.64	12994.23	12988.07	13023.66	13092.57
45.0	12589.20	12547.67	12492.32	12453.16	12364.77	12313.78	12257.50	12215.67	12211.72	12286.87
47.5	11810.80	11684.23	11612.22	11564.15	11557.19	11571.24	11578.67	11552.77	11552.81	11550.92
50.0	10789.75	10730.31	10684.75	10704.42	10741.72	10765.29	10790.20	10831.51	10892.81	10892.29
52.5	9763.11	9723.42	9700.06	9740.15	9823.42	9915.12	10008.27	10043.05	10079.89	10132.47
55.0	8640.93	8650.82	8682.86	8770.29	8865.00	8942.23	9041.58	9135.58	9230.33	9277.44
57.5	7523.71	7546.76	7613.52	7708.77	7812.84	7929.56	8057.12	8137.50	8214.58	8313.40
60.0	6518.42	6553.63	6608.90	6676.23	6740.60	6832.59	6916.16	7014.32	7165.80	7305.89
62.5	5540.07	5589.05	5647.40	5713.29	5762.50	5800.24	5792.33	5856.43	6010.49	6161.45
65.0	4612.77	4658.04	4709.03	4768.31	4798.07	4816.13	4782.31	4837.92	4935.69	4991.16
67.5	3694.95	3737.61	3794.52	3841.54	3872.75	3861.95	3831.44	3874.11	3947.79	4005.11
70.0	2825.03	2873.49	2927.45	2964.44	2983.43	2944.47	2972.50	3035.28	3083.80	3107.34
72.5	1948.21	2010.22	2077.80	2131.00	2169.56	2167.38	2205.79	2256.70	2280.13	2265.88
75.0	1052.86	1123.47	1195.66	1268.70	1333.49	1378.16	1451.29	1534.02	1574.30	1590.01
77.5	426.78	440.15	448.73	459.11	487.54	576.79	666.97	756.49	838.76	907.51
80.0	114.62	134.99	154.40	173.90	190.16	210.46	226.66	240.63	253.20	262.41
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.54	34.12	56.98
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	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
2.5	20129.53	20136.60	20143.36	20150.21	20157.33	20164.71	20172.32	20180.16	20188.21	20196.46
5.0	19967.50	19978.89	19991.75	20004.50	20017.92	20031.98	20046.66	20061.91	20077.71	20094.01
7.5	19779.97	19794.42	19812.77	19830.43	19849.29	19869.29	19890.40	19910.18	19935.53	19959.16
10.0	19589.52	19600.88	19618.92	19634.72	19654.62	19676.34	19702.99	19730.72	19760.15	19791.22
12.5	19387.57	19401.80	19416.86	19433.25	19451.42	19471.03	19491.49	19517.15	19553.08	19586.27
15.0	19173.82	19187.03	19200.97	19216.27	19230.86	19251.98	19272.21	19294.76	19319.24	19356.63
17.5	18909.90	18934.26	18961.63	18981.06	18995.64	19011.82	19031.04	19052.65	19076.40	19103.21
20.0	18614.32	18636.79	18663.32	18694.42	18729.89	18753.38	18768.84	18785.47	18805.81	18829.66
22.5	18293.70	18311.14	18333.88	18361.82	18394.84	18434.42	18476.44	18486.72	18501.00	18518.15
25.0	17839.09	17899.42	17963.86	17987.05	18015.83	18053.37	18096.30	18148.15	18159.39	18167.51
27.5	17358.22	17412.27	17470.13	17521.16	17571.04	17592.16	17623.36	17669.38	17742.17	17711.32
30.0	16824.91	16878.31	16907.44	16919.06	16946.92	16965.35	16967.56	17014.45	17068.87	17123.80
32.5	16104.77	16170.00	16268.58	16228.25	16227.74	16228.53	16252.01	16276.94	16333.30	16406.44
35.0	15269.62	15311.34	15377.71	15450.50	15507.45	15510.92	15537.78	15589.74	15662.41	15741.52
37.5	14504.18	14461.29	14523.90	14644.44	14762.44	14864.52	14918.74	14994.33	15079.99	15158.59
40.0	13847.75	13828.95	13828.72	13892.83	14025.74	14180.84	14322.73	14389.99	14470.46	14558.44
42.5	13201.88	13244.59	13240.79	13248.04	13291.57	13442.81	13618.85	13765.97	13834.12	13918.32
45.0	12395.26	12521.61	12654.63	12645.83	12642.49	12665.65	12837.06	13039.37	13171.71	13235.74
47.5	11580.77	11685.48	11824.14	11987.65	12010.23	11992.85	11994.00	12192.48	12439.42	12528.18
50.0	10877.14	10886.40	10939.05	11083.93	11263.39	11328.19	11290.92	11322.45	11549.96	11777.26
52.5	10198.92	10179.54	10153.20	10136.00	10300.45	10505.04	10583.25	10523.39	10584.98	10861.84
55.0	9323.18	9381.21	9407.05	9363.58	9305.26	9422.88	9654.92	9754.26	9666.06	9784.87
57.5	8392.15	8420.85	8473.23	8544.85	8415.17	8392.78	8542.77	8809.34	8769.57	8582.88
60.0	7370.46	7412.64	7373.56	7350.88	7491.37	7545.90	7468.01	7501.90	7714.08	7677.57
62.5	6303.95	6400.63	6316.00	6308.40	6415.29	6573.55	6599.70	6465.95	6566.41	6881.41
65.0	5095.87	5167.88	5258.05	5383.56	5436.35	5478.17	5594.28	5688.28	5545.50	5718.88
67.5	4029.35	4017.33	4149.15	4327.41	4510.14	4550.31	4510.35	4567.04	4728.70	4643.99

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	3078.90	3102.54	3199.33	3259.86	3366.49	3552.30	3621.08	3557.70	3677.15	3861.66
<b>72.5</b>	2264.41	2325.39	2367.74	2378.58	2432.98	2452.47	2572.85	2765.50	2763.72	2758.66
<b>75.0</b>	1601.91	1637.61	1636.84	1652.48	1676.66	1661.01	1717.08	1757.58	1936.02	1990.23
<b>77.5</b>	971.33	1046.04	1073.83	1081.41	1071.94	1062.12	1079.00	1072.89	1124.03	1196.71
<b>80.0</b>	313.50	409.49	490.48	560.51	614.48	635.84	628.24	610.73	615.24	605.56
<b>82.5</b>	78.77	97.47	113.10	126.40	138.05	201.99	263.94	312.57	321.73	302.98
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	17.75	36.16	55.36	75.21	109.36
<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**

	<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>	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20204.87	20213.45	20222.17	20231.01	20239.96	20248.99	20258.09	20257.70	20257.36	20257.08
<b>5.0</b>	20110.79	20128.00	20144.06	20162.70	20181.45	20200.27	20219.13	20217.96	20216.79	20215.63
<b>7.5</b>	19983.76	20009.25	20035.59	20062.69	20090.49	20118.93	20147.92	20145.96	20144.50	20143.56
<b>10.0</b>	19823.83	19857.91	19893.36	19926.09	19966.22	20006.52	20046.89	20043.05	20039.22	20035.40
<b>12.5</b>	19631.47	19673.41	19717.49	19763.57	19811.52	19861.19	19912.44	19907.40	19903.84	19901.79
<b>15.0</b>	19403.98	19454.46	19507.91	19564.16	19618.85	19683.35	19747.99	19739.43	19730.88	19731.90
<b>17.5</b>	19144.34	19202.87	19264.84	19330.85	19400.65	19473.95	19550.46	19540.29	19533.16	19529.18
<b>20.0</b>	18855.76	18906.52	18978.46	19055.78	19130.07	19223.21	19316.58	19300.45	19284.37	19286.64
<b>22.5</b>	18540.39	18560.41	18643.06	18731.05	18825.92	18927.23	19034.50	19015.81	19002.77	18995.56
<b>25.0</b>	18178.89	18190.84	18233.76	18337.58	18453.39	18575.88	18714.24	18681.84	18664.34	18652.02
<b>27.5</b>	17685.79	17670.32	17664.75	17773.01	17913.90	18070.64	18241.71	18193.97	18160.18	18141.44
<b>30.0</b>	17075.71	17040.63	17020.53	17088.01	17248.66	17418.77	17622.13	17554.24	17519.48	17493.77
<b>32.5</b>	16434.67	16397.65	16364.72	16402.23	16571.06	16755.07	16955.85	16891.75	16845.39	16816.08
<b>35.0</b>	15834.48	15831.28	15825.68	15835.29	15980.70	16150.52	16352.36	16289.82	16259.31	16253.62
<b>37.5</b>	15256.96	15327.20	15313.27	15313.76	15428.62	15623.35	15836.84	15773.93	15729.34	15764.31
<b>40.0</b>	14657.73	14780.04	14775.30	14761.85	14840.47	15043.42	15288.71	15205.00	15163.38	15246.87
<b>42.5</b>	14017.86	14144.03	14207.78	14177.20	14208.50	14443.15	14703.89	14616.86	14555.51	14698.50
<b>45.0</b>	13322.37	13453.31	13602.58	13550.82	13525.10	13771.74	14077.68	13956.23	13893.34	14108.28
<b>47.5</b>	12593.66	12715.26	12884.71	12875.24	12828.38	13063.21	13383.74	13258.62	13219.35	13463.54
<b>50.0</b>	11832.27	11912.19	12082.95	12174.27	12087.80	12268.13	12647.79	12480.53	12509.57	12802.43
<b>52.5</b>	11028.66	11041.86	11195.83	11396.92	11265.77	11419.93	11832.87	11652.58	11733.14	12094.59
<b>55.0</b>	10113.54	10136.26	10219.67	10481.96	10378.41	10430.31	10925.49	10691.23	10883.46	11226.86
<b>57.5</b>	8907.62	9142.77	9059.76	9346.19	9348.55	9330.43	9909.75	9615.00	9940.89	10225.36
<b>60.0</b>	7697.22	8074.82	8064.94	8218.53	8341.01	8194.19	8713.48	8423.30	8861.42	8988.72
<b>62.5</b>	6743.99	6948.38	7200.52	7218.54	7493.20	7264.39	7793.93	7503.06	7980.79	7934.85
<b>65.0</b>	5954.12	5798.60	6263.18	6187.35	6522.10	6271.35	6820.16	6525.48	7039.50	6961.97
<b>67.5</b>	4868.51	4878.90	4992.34	5186.44	5333.91	5215.20	5769.42	5506.64	5918.13	6063.80
<b>70.0</b>	3629.35	3947.90	3814.81	4236.04	4160.18	4206.42	4598.54	4454.85	4660.08	5112.11
<b>72.5</b>	2933.84	2805.41	3043.80	3099.27	3118.80	3319.90	3621.63	3567.34	3610.82	3874.95
<b>75.0</b>	1908.62	2089.98	2071.40	2059.87	2307.80	2459.57	2619.99	2696.35	2788.31	2784.04
<b>77.5</b>	1313.17	1223.78	1333.50	1452.16	1491.44	1580.06	1718.09	1784.93	1904.17	2143.24
<b>80.0</b>	639.12	759.92	673.02	712.04	731.35	786.24	988.04	927.91	1014.50	1112.50
<b>82.5</b>	300.73	301.05	333.97	296.38	338.32	395.65	482.35	469.13	412.29	401.40
<b>85.0</b>	135.09	126.57	112.27	117.90	107.84	125.52	172.29	76.51	54.18	117.46
<b>87.5</b>	0.00	15.60	33.56	45.49	54.88	49.28	61.12	21.46	26.77	47.66
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	19.28	0.00	0.00	0.00

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

	<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>	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20256.85	20256.67	20256.54	20256.47	20256.46	20256.51	20256.61	20256.78	20257.00	20257.28

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**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	20214.48	20215.71	20215.64	20215.79	20216.16	20216.75	20217.57	20218.61	20219.89	20221.39
<b>7.5</b>	20143.14	20143.27	20143.94	20145.17	20146.96	20146.66	20151.16	20153.86	20157.04	20160.70
<b>10.0</b>	20038.70	20039.00	20040.27	20042.54	20045.81	20050.10	20055.42	20060.98	20067.79	20080.86
<b>12.5</b>	19901.29	19902.36	19905.04	19903.93	19913.94	19920.47	19936.25	19956.24	19976.11	19996.27
<b>15.0</b>	19730.99	19732.39	19736.17	19742.36	19757.59	19784.46	19812.01	19840.61	19867.02	19898.26
<b>17.5</b>	19528.45	19531.07	19536.28	19557.74	19592.39	19629.00	19666.68	19705.46	19745.79	19785.62
<b>20.0</b>	19285.30	19288.50	19311.63	19357.86	19404.80	19453.62	19504.35	19554.42	19594.81	19621.96
<b>22.5</b>	18994.32	18997.35	19061.57	19122.18	19186.23	19251.18	19319.75	19351.42	19384.78	19422.08
<b>25.0</b>	18649.34	18700.76	18778.30	18855.59	18935.57	19011.40	19047.58	19088.84	19133.27	19183.48
<b>27.5</b>	18153.67	18272.53	18396.52	18525.33	18640.39	18680.07	18728.41	18782.53	18840.97	18878.92
<b>30.0</b>	17561.41	17715.61	17881.97	18057.70	18127.76	18191.64	18262.76	18361.35	18456.48	18530.41
<b>32.5</b>	16928.69	17115.50	17305.89	17420.83	17485.20	17568.23	17670.29	17811.04	17957.68	18091.52
<b>35.0</b>	16390.30	16546.16	16705.85	16754.85	16822.52	16907.81	17055.63	17221.45	17400.16	17505.31
<b>37.5</b>	15913.32	16075.50	16149.38	16192.90	16253.24	16346.57	16476.12	16637.58	16726.29	16786.85
<b>40.0</b>	15422.28	15586.44	15617.36	15669.53	15752.47	15858.19	15976.02	16015.63	16040.75	16084.96
<b>42.5</b>	14901.77	15006.06	15044.00	15114.29	15236.07	15368.35	15409.93	15415.04	15440.00	15577.10
<b>45.0</b>	14345.81	14374.64	14418.40	14545.37	14700.36	14775.96	14771.87	14791.03	14962.73	15154.47
<b>47.5</b>	13668.55	13685.21	13769.85	13949.61	14092.93	14061.36	14074.48	14290.43	14509.75	14656.57
<b>50.0</b>	12913.54	12940.58	13112.22	13313.02	13326.55	13325.84	13527.96	13798.18	13899.25	13789.96
<b>52.5</b>	12115.94	12192.04	12437.59	12534.68	12512.84	12696.26	12989.56	13085.45	12968.95	12885.20
<b>55.0</b>	11201.04	11408.34	11685.62	11624.90	11759.50	12117.90	12207.38	12089.37	12051.29	12179.08
<b>57.5</b>	10227.23	10580.59	10646.50	10643.60	11080.81	11295.41	11146.14	11147.00	11296.50	11465.55
<b>60.0</b>	9158.80	9561.60	9434.67	9860.10	10233.23	10050.38	10120.49	10361.06	10478.88	10462.49
<b>62.5</b>	8233.50	8297.10	8388.17	8980.88	8838.07	8912.40	9250.04	9379.30	9396.12	9503.51
<b>65.0</b>	7369.11	7200.28	7709.99	7662.17	7663.72	8020.98	8062.63	8088.09	8424.74	8656.19
<b>67.5</b>	6188.94	6435.60	6632.73	6556.42	6899.24	6901.64	6935.99	7203.56	7546.46	7601.52
<b>70.0</b>	4930.52	5544.59	5311.70	5770.99	5753.76	5877.97	6168.15	6261.92	6339.88	6532.31
<b>72.5</b>	4141.36	4069.73	4496.65	4459.98	4742.26	5027.03	5024.44	5195.24	5508.09	5788.67
<b>75.0</b>	3062.29	3310.44	3294.11	3577.70	3777.22	3811.35	4087.67	4474.71	4592.95	4659.43
<b>77.5</b>	2161.22	2206.81	2574.55	2588.36	2781.88	3134.61	3185.87	3251.05	3481.12	3688.79
<b>80.0</b>	1225.08	1559.69	1551.23	1872.94	1985.55	2064.87	2283.54	2471.35	2657.35	2760.09
<b>82.5</b>	635.50	799.60	943.43	1074.35	1290.85	1414.10	1477.97	1548.55	1585.11	1484.09
<b>85.0</b>	215.43	339.72	484.77	530.06	542.41	482.50	361.19	193.68	0.00	0.00
<b>87.5</b>	51.85	34.68	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. 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>	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20257.62	20257.83	20257.53	20258.33	20258.59	20258.88	20259.23	20259.61	20260.03	20260.49
<b>5.0</b>	20223.12	20224.32	20226.38	20228.02	20229.84	20231.83	20233.98	20236.29	20238.12	20239.88
<b>7.5</b>	20164.83	20167.64	20173.25	20178.57	20185.70	20192.93	20199.41	20205.65	20211.90	20218.13
<b>10.0</b>	20094.27	20104.59	20119.95	20132.50	20145.14	20156.41	20167.39	20178.38	20188.15	20197.60
<b>12.5</b>	20016.96	20037.57	20057.42	20077.49	20096.61	20114.73	20132.75	20148.51	20160.06	20170.54
<b>15.0</b>	19927.33	19956.29	19984.63	20007.91	20025.59	20044.72	20062.94	20082.05	20099.80	20118.04
<b>17.5</b>	19818.66	19841.96	19866.09	19891.53	19917.31	19943.76	19970.67	19997.27	20021.37	20050.14
<b>20.0</b>	19651.40	19683.12	19717.02	19752.09	19789.05	19824.35	19834.29	19844.56	19853.96	19863.91
<b>22.5</b>	19461.48	19503.10	19545.68	19564.94	19581.71	19599.26	19618.27	19635.31	19651.81	19668.04
<b>25.0</b>	19235.71	19263.50	19290.95	19317.11	19342.47	19368.33	19395.11	19407.14	19422.05	19431.91
<b>27.5</b>	18929.94	18971.71	19013.68	19045.61	19086.06	19094.88	19107.44	19123.78	19143.17	19164.61
<b>30.0</b>	18602.86	18662.35	18703.49	18717.99	18737.53	18761.20	18787.92	18817.19	18858.78	18910.81
<b>32.5</b>	18222.66	18248.67	18281.45	18318.78	18357.09	18405.20	18485.05	18559.49	18624.20	18692.08
<b>35.0</b>	17588.04	17665.77	17753.90	17868.16	18000.83	18121.26	18219.08	18310.09	18393.81	18371.80
<b>37.5</b>	16845.77	16977.02	17217.67	17452.77	17659.76	17825.27	17866.10	17819.14	17781.36	17749.96
<b>40.0</b>	16222.29	16465.82	16733.99	17007.99	17119.51	17121.39	17121.77	17121.58	17114.38	17116.74

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**CANDELA TABULATION - (Cont.)**

42.5	15760.19	15982.72	16144.26	16154.27	16177.27	16221.59	16287.02	16417.22	16510.23	16560.49
45.0	15348.67	15294.93	15246.49	15232.04	15266.33	15419.06	15596.50	15765.54	15898.35	15991.78
47.5	14558.18	14482.35	14430.33	14480.62	14593.11	14726.72	14906.04	15026.03	15141.65	15252.22
50.0	13709.33	13727.05	13787.05	13872.50	13952.27	13980.05	14034.51	14134.78	14282.63	14452.99
52.5	12983.02	13078.44	13164.54	13164.87	13170.72	13192.03	13210.35	13333.07	13526.50	13734.45
55.0	12307.78	12347.26	12347.94	12362.67	12402.59	12486.56	12573.09	12662.92	12849.18	13021.60
57.5	11451.24	11462.25	11509.34	11621.91	11727.47	11831.02	11916.89	11966.34	12041.29	12164.12
60.0	10512.71	10641.20	10788.39	10930.30	11001.45	11048.94	11109.35	11178.30	11255.60	11385.56
62.5	9709.22	9891.34	9980.98	10050.93	10127.18	10201.84	10340.90	10487.71	10623.34	10751.02
65.0	8784.10	8889.49	8985.54	9119.35	9350.80	9528.10	9698.60	9862.27	9953.78	9971.02
67.5	7645.98	7853.81	8177.51	8417.49	8678.39	8761.63	8788.69	8836.76	8882.26	8926.20
70.0	6772.91	7065.25	7376.37	7459.51	7538.66	7595.39	7644.54	7751.05	7858.40	7954.13
72.5	5871.78	5934.48	6086.64	6248.32	6412.05	6542.84	6660.59	6813.10	6933.36	7040.98
75.0	4700.63	4854.59	5078.87	5313.66	5468.53	5584.62	5663.07	5805.49	5921.44	6026.35
77.5	3848.03	3984.06	4137.82	4293.30	4396.88	4476.59	4546.36	4688.72	4862.49	4803.77
80.0	2845.85	2917.98	3016.51	3046.16	2879.98	2673.68	2442.71	2237.69	2049.94	1823.36
82.5	1336.18	1133.38	902.45	664.09	388.45	95.48	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	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
2.5	20260.99	20261.52	20262.09	20262.38	20262.79	20263.08	20263.38	20263.71	20264.05	20264.42
5.0	20241.76	20243.74	20245.84	20246.91	20249.21	20250.81	20252.48	20254.21	20255.30	20256.46
7.5	20222.98	20227.67	20232.32	20236.39	20239.76	20243.11	20245.77	20248.48	20250.72	20252.79
10.0	20206.56	20214.31	20221.60	20227.82	20232.85	20237.70	20241.28	20244.74	20247.35	20249.43
12.5	20180.93	20190.75	20200.09	20208.62	20216.33	20223.05	20228.82	20233.59	20237.67	20240.88
15.0	20134.41	20150.68	20165.09	20178.53	20191.01	20201.83	20211.96	20220.10	20226.36	20231.14
17.5	20060.56	20064.89	20068.59	20071.20	20071.28	20074.63	20075.68	20076.56	20076.95	20076.37
20.0	19873.96	19883.07	19890.76	19897.40	19902.77	19904.83	19910.26	19912.34	19913.19	19913.61
22.5	19683.69	19694.57	19700.69	19707.28	19713.87	19720.16	19726.13	19731.82	19736.83	19740.85
25.0	19443.78	19457.53	19472.34	19487.65	19502.74	19517.35	19531.20	19543.62	19554.96	19564.99
27.5	19186.64	19209.11	19238.93	19271.76	19301.95	19328.03	19352.15	19371.75	19387.93	19401.15
30.0	18959.91	19004.58	19046.34	19085.88	19121.65	19153.14	19181.27	19205.00	19223.99	19239.18
32.5	18750.88	18804.63	18852.75	18823.42	18798.98	18779.72	18765.09	18753.98	18746.05	18741.64
35.0	18336.25	18302.90	18274.85	18251.11	18233.99	18218.89	18214.24	18210.42	18209.30	18210.20
37.5	17723.72	17702.81	17679.63	17681.26	17681.80	17683.29	17687.40	17690.77	17695.56	17698.49
40.0	17133.71	17146.50	17155.33	17161.49	17165.79	17170.13	17175.92	17181.79	17186.58	17189.98
42.5	16590.89	16613.83	16630.11	16634.17	16632.90	16633.20	16637.04	16643.59	16651.37	16659.76
45.0	16007.98	16020.98	16032.42	16043.28	16053.71	16065.55	16076.93	16092.50	16108.92	16124.87
47.5	15337.93	15372.30	15415.45	15444.25	15466.56	15485.58	15499.85	15514.76	15529.40	15542.58
50.0	14632.54	14734.84	14796.96	14841.32	14871.82	14895.56	14912.06	14928.57	14943.44	14956.47
52.5	13933.23	14073.04	14168.97	14225.94	14254.53	14278.49	14295.42	14311.83	14326.33	14344.24
55.0	13164.22	13300.78	13414.13	13517.27	13581.52	13624.54	13657.44	13682.03	13707.20	13730.69
57.5	12284.04	12436.30	12623.10	12805.24	12929.21	12999.44	13049.63	13083.87	13114.44	13141.23
60.0	11532.60	11722.88	11964.14	12186.99	12329.58	12409.30	12460.63	12498.12	12528.74	12555.21
62.5	10872.97	11046.54	11285.22	11455.22	11545.78	11577.43	11600.85	11609.64	11614.93	11620.47
65.0	9984.18	10043.13	10183.71	10344.50	10467.39	10531.37	10590.04	10624.91	10641.79	10652.97
67.5	8962.01	8993.63	9121.92	9289.41	9429.59	9530.31	9622.56	9674.36	9696.64	9708.13
70.0	8025.79	8098.24	8208.00	8344.50	8456.03	8562.00	8675.85	8733.88	8757.04	8769.25
72.5	7114.76	7178.78	7269.73	7368.23	7444.78	7531.64	7661.71	7750.47	7790.13	7806.51
75.0	6106.95	6178.59	6263.93	6343.98	6403.04	6469.42	6623.25	6763.58	6819.03	6842.49
77.5	4638.07	4451.16	4280.56	4112.34	3953.01	3812.34	3750.07	3699.04	3616.94	3538.75

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	1597.65	1366.93	1150.34	946.33	756.40	585.52	441.56	314.40	203.32	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. Angles**      **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>	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20264.80	20265.19	20265.60	20265.61	20265.63	20265.67	20265.71	20265.75	20265.81	20265.86
<b>5.0</b>	20257.63	20258.80	20259.97	20260.34	20260.71	20261.08	20261.44	20261.86	20261.32	20260.95
<b>7.5</b>	20253.92	20254.98	20256.05	20255.94	20255.86	20255.83	20254.86	20253.89	20252.99	20251.31
<b>10.0</b>	20251.05	20251.59	20252.12	20251.06	20250.00	20248.07	20246.19	20243.69	20240.40	20237.27
<b>12.5</b>	20243.80	20245.47	20246.97	20246.53	20246.19	20243.67	20241.06	20237.35	20232.81	20227.06
<b>15.0</b>	20235.46	20238.96	20241.81	20242.30	20241.72	20239.96	20236.82	20232.84	20227.47	20220.18
<b>17.5</b>	20076.53	20077.34	20078.63	20078.93	20079.54	20080.72	20082.73	20084.45	20086.75	20089.86
<b>20.0</b>	19909.74	19913.97	19915.45	19913.14	19908.42	19911.87	19910.48	19908.83	19908.86	19905.50
<b>22.5</b>	19743.67	19747.55	19750.54	19751.79	19751.57	19750.10	19747.26	19742.67	19736.49	19728.75
<b>25.0</b>	19567.25	19578.24	19585.63	19588.32	19585.06	19588.88	19585.35	19578.92	19570.00	19558.97
<b>27.5</b>	19410.93	19418.21	19423.42	19424.29	19421.33	19415.60	19406.90	19395.81	19383.22	19368.58
<b>30.0</b>	19243.66	19255.53	19261.20	19256.92	19244.54	19239.32	19223.04	19203.74	19181.09	19155.59
<b>32.5</b>	18738.74	18739.14	18742.59	18745.88	18750.24	18756.41	18760.59	18767.42	18774.88	18782.55
<b>35.0</b>	18213.15	18212.16	18223.97	18225.15	18237.24	18243.79	18249.52	18256.13	18261.84	18268.89
<b>37.5</b>	17702.18	17704.70	17707.82	17709.70	17712.89	17713.40	17717.63	17718.42	17726.62	17731.09
<b>40.0</b>	17191.95	17186.99	17191.66	17182.80	17185.02	17179.61	17173.84	17169.48	17165.81	17164.64
<b>42.5</b>	16665.57	16671.35	16674.25	16673.58	16671.27	16667.31	16656.56	16645.22	16636.88	16618.43
<b>45.0</b>	16137.92	16143.99	16156.84	16153.55	16158.96	16154.30	16147.38	16132.91	16118.51	16101.53
<b>47.5</b>	15552.05	15559.06	15561.25	15560.38	15557.85	15551.97	15544.20	15536.89	15530.81	15525.71
<b>50.0</b>	14964.05	14961.46	14965.66	14953.90	14951.92	14938.60	14922.88	14906.75	14890.30	14874.88
<b>52.5</b>	14358.20	14367.78	14370.04	14368.17	14362.16	14348.98	14330.00	14307.19	14280.09	14248.74
<b>55.0</b>	13751.84	13760.78	13774.42	13770.48	13774.99	13762.24	13743.45	13719.61	13690.23	13655.83
<b>57.5</b>	13162.56	13175.14	13178.80	13176.20	13168.10	13150.64	13127.32	13099.21	13067.57	13032.38
<b>60.0</b>	12552.51	12578.22	12583.19	12570.30	12538.65	12535.93	12504.33	12466.28	12424.36	12380.49
<b>62.5</b>	11627.64	11630.50	11629.78	11629.30	11628.21	11620.77	11611.15	11601.95	11581.32	11547.24
<b>65.0</b>	10634.19	10665.63	10676.37	10671.63	10651.23	10678.40	10672.79	10659.52	10633.96	10574.55
<b>67.5</b>	9721.19	9723.61	9722.73	9723.22	9721.74	9712.57	9701.79	9685.50	9632.80	9547.20
<b>70.0</b>	8750.81	8767.25	8769.09	8760.03	8732.84	8745.67	8728.05	8700.28	8608.90	8482.29
<b>72.5</b>	7819.71	7819.81	7815.89	7815.62	7812.39	7798.12	7781.15	7752.79	7636.00	7477.39
<b>75.0</b>	6840.71	6860.43	6862.68	6859.46	6845.23	6853.61	6838.49	6818.07	6693.10	6501.38
<b>77.5</b>	3483.29	3446.00	3431.34	3445.52	3485.69	3545.08	3629.22	3733.38	3801.27	3848.35
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	204.03	317.44	447.51	590.14
<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>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>	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20265.92	20265.99	20266.06	20265.49	20265.17	20264.85	20264.55	20264.25	20263.95	20263.67
<b>5.0</b>	20260.58	20260.20	20259.39	20258.26	20257.13	20255.99	20254.84	20253.96	20251.64	20249.78
<b>7.5</b>	20249.50	20247.83	20245.63	20243.05	20240.66	20238.68	20235.07	20232.03	20229.25	20227.59
<b>10.0</b>	20232.64	20228.22	20223.07	20217.34	20211.94	20205.19	20198.72	20194.09	20184.96	20178.12
<b>12.5</b>	20220.14	20211.95	20202.56	20191.97	20180.13	20166.77	20152.39	20135.93	20123.95	20110.34



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**CANDELA TABULATION - (Cont.)**

15.0	20213.07	20201.04	20188.74	20174.68	20157.77	20139.67	20117.89	20098.19	20070.25	20048.10
17.5	20093.63	20097.48	20102.29	20108.25	20113.35	20110.61	20082.45	20050.81	20017.86	19982.44
20.0	19903.48	19901.26	19899.23	19901.46	19896.46	19895.86	19897.04	19901.46	19904.97	19911.98
22.5	19718.69	19706.05	19691.36	19675.04	19664.28	19653.91	19646.87	19642.18	19640.19	19641.47
25.0	19544.54	19526.70	19506.38	19483.54	19458.22	19431.17	19405.45	19374.59	19354.94	19346.93
27.5	19355.03	19333.03	19314.18	19289.42	19256.39	19221.70	19185.06	19146.36	19106.10	19064.92
30.0	19128.84	19101.66	19068.85	19038.48	19008.64	18979.78	18952.62	18913.96	18863.03	18810.92
32.5	18791.86	18801.54	18814.06	18771.43	18728.52	18687.56	18648.32	18619.78	18576.09	18543.89
35.0	18275.48	18282.42	18294.06	18300.54	18312.27	18327.54	18330.03	18276.19	18224.16	18172.38
37.5	17742.89	17755.25	17768.87	17772.33	17779.00	17796.90	17796.66	17803.26	17808.16	17719.59
40.0	17165.71	17169.30	17176.04	17188.97	17208.56	17234.65	17240.10	17226.31	17159.10	17055.12
42.5	16602.58	16582.50	16571.09	16572.78	16577.85	16573.18	16553.68	16523.17	16478.92	16336.03
45.0	16082.78	16056.29	16030.31	16008.81	15960.68	15864.21	15760.54	15657.24	15570.66	15488.64
47.5	15521.35	15516.95	15499.67	15464.21	15398.57	15254.64	15053.59	14828.89	14647.11	14598.63
50.0	14856.18	14840.94	14809.26	14780.90	14725.06	14610.03	14399.42	14148.24	13975.42	13868.10
52.5	14208.34	14151.61	14067.19	13968.97	13835.39	13687.48	13550.28	13408.64	13342.74	13261.64
55.0	13610.33	13540.07	13410.12	13227.53	13012.79	12812.29	12667.74	12590.01	12559.84	12548.49
57.5	12986.15	12903.66	12752.36	12538.46	12324.22	12144.27	11986.06	11874.95	11779.03	11731.41
60.0	12297.05	12132.52	11919.62	11725.86	11586.28	11473.28	11362.84	11247.95	11141.41	11027.64
62.5	11479.15	11296.22	11067.46	10891.24	10797.74	10704.61	10610.76	10532.62	10465.27	10382.38
65.0	10503.52	10335.35	10135.75	9998.65	9940.98	9888.24	9832.69	9761.01	9667.36	9566.06
67.5	9471.01	9348.21	9198.78	9084.79	9035.70	8975.81	8910.26	8847.61	8771.83	8689.95
70.0	8391.88	8286.79	8163.69	8091.78	8046.89	7992.11	7937.69	7886.38	7795.55	7697.65
72.5	7371.44	7268.60	7175.48	7107.20	7026.45	6954.57	6872.43	6763.57	6663.73	6609.21
75.0	6394.56	6331.84	6274.59	6204.23	6122.15	6019.65	5893.78	5713.35	5554.94	5448.77
77.5	3963.38	4134.74	4324.65	4525.91	4722.87	4910.16	4979.66	4760.71	4576.70	4471.04
80.0	758.37	951.18	1162.89	1391.61	1627.02	1867.40	2099.64	2289.66	2487.90	2717.07
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.13
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	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
2.5	20263.40	20263.13	20262.88	20262.63	20262.63	20261.73	20261.28	20260.86	20260.48	20260.13
5.0	20247.93	20246.09	20244.27	20242.47	20241.83	20237.76	20235.40	20233.12	20230.93	20228.83
7.5	20222.82	20219.55	20215.06	20209.89	20204.12	20198.19	20192.38	20186.70	20181.19	20175.87
10.0	20173.17	20163.94	20157.06	20150.86	20144.24	20137.86	20132.26	20121.85	20113.22	20099.86
12.5	20097.65	20084.99	20072.45	20061.03	20049.71	20039.14	20029.89	20025.14	20013.69	20003.98
15.0	20016.90	19989.37	19964.43	19946.58	19929.10	19912.73	19898.41	19884.68	19872.83	19863.10
17.5	19945.53	19907.23	19867.50	19827.39	19786.86	19757.17	19743.73	19716.87	19700.21	19685.78
20.0	19866.29	19816.22	19765.76	19714.02	19661.16	19607.68	19554.03	19516.80	19499.55	19473.98
22.5	19645.37	19652.96	19660.68	19587.73	19520.07	19452.25	19384.50	19318.05	19253.48	19228.79
25.0	19342.52	19342.29	19346.34	19354.87	19367.03	19283.44	19198.96	19117.36	19030.37	18948.00
27.5	19029.44	19006.76	19001.81	19002.82	19010.23	19024.43	18994.36	18883.69	18761.38	18626.41
30.0	18756.67	18700.36	18641.36	18606.98	18592.09	18583.64	18578.86	18578.46	18381.65	18176.09
32.5	18480.66	18403.89	18306.88	18179.67	18027.16	17964.97	17922.86	17898.92	17892.30	17659.69
35.0	18114.55	18052.68	17921.51	17728.90	17508.97	17296.53	17175.72	17142.34	17128.72	17130.38
37.5	17586.27	17451.31	17320.82	17199.67	16964.17	16740.58	16545.86	16430.62	16429.96	16442.66
40.0	16933.72	16774.01	16617.47	16486.47	16379.66	16234.55	16067.11	15928.05	15837.20	15854.68
42.5	16178.15	16036.87	15931.02	15847.73	15772.38	15712.18	15641.99	15485.08	15332.25	15243.07
45.0	15438.51	15340.50	15266.72	15241.67	15221.61	15147.46	15089.36	15032.44	14850.16	14672.80
47.5	14580.03	14586.21	14631.79	14600.48	14568.09	14538.21	14472.65	14414.31	14356.71	14145.28
50.0	13788.47	13797.43	13831.31	13882.35	13902.06	13850.37	13802.77	13738.28	13681.35	13617.61

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**CANDELA TABULATION - (Cont.)**

<b>52.5</b>	13178.75	13091.72	12995.07	13036.66	13084.89	13160.59	13084.33	13011.69	12944.22	12897.45
<b>55.0</b>	12547.67	12466.98	12357.32	12244.59	12188.84	12237.76	12314.17	12263.67	12169.33	12080.13
<b>57.5</b>	11704.42	11689.61	11692.72	11583.17	11443.55	11294.32	11323.24	11403.18	11355.15	11191.53
<b>60.0</b>	10899.97	10800.30	10769.23	10762.15	10764.57	10577.57	10366.76	10295.69	10363.54	10288.60
<b>62.5</b>	10236.35	10074.11	9900.80	9759.31	9716.62	9725.84	9598.48	9290.94	9060.07	9168.31
<b>65.0</b>	9462.07	9360.11	9183.64	8942.86	8667.65	8545.88	8528.16	8421.25	8029.97	7824.53
<b>67.5</b>	8575.56	8419.89	8268.63	8071.03	7843.14	7604.17	7277.50	7165.90	7160.18	6943.75
<b>70.0</b>	7589.26	7438.25	7196.04	6915.03	6810.27	6733.54	6500.59	6197.94	5986.66	6027.97
<b>72.5</b>	6548.20	6465.46	6229.28	5944.53	5786.42	5640.74	5521.34	5420.12	5142.51	4847.30
<b>75.0</b>	5379.96	5274.08	5099.98	4960.32	4897.38	4744.61	4545.32	4245.14	4171.82	4130.53
<b>77.5</b>	4353.41	4222.34	3985.25	3836.68	3787.23	3705.58	3631.28	3447.39	3218.80	2981.47
<b>80.0</b>	2932.60	3142.68	3103.17	2960.37	2856.60	2693.25	2532.89	2404.19	2348.17	2292.77
<b>82.5</b>	396.35	687.41	934.21	1177.67	1407.92	1564.83	1708.83	1620.86	1479.54	1339.07
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	212.12	395.39	528.76
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	<u><b>250.0</b></u>	<u><b>252.5</b></u>	<u><b>255.0</b></u>	<u><b>257.5</b></u>	<u><b>260.0</b></u>	<u><b>262.5</b></u>	<u><b>265.0</b></u>	<u><b>267.5</b></u>	<u><b>270.0</b></u>	<u><b>272.5</b></u>
<b>0.0</b>	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20259.81	20259.52	20259.28	20259.07	20258.91	20258.79	20258.71	20258.68	20258.70	20249.98
<b>5.0</b>	20226.84	20224.96	20223.22	20221.61	20220.16	20218.87	20217.75	20216.83	20216.10	20199.13
<b>7.5</b>	20172.04	20164.97	20159.80	20154.99	20150.58	20146.61	20143.10	20140.09	20137.60	20113.04
<b>10.0</b>	20089.32	20079.36	20070.01	20061.32	20053.32	20046.07	20039.59	20033.93	20029.13	19997.21
<b>12.5</b>	19987.57	19971.97	19960.84	19942.39	19929.07	19916.99	19906.23	19896.85	19888.91	19850.39
<b>15.0</b>	19860.25	19837.49	19814.86	19793.74	19774.24	19756.48	19740.56	19726.61	19714.73	19670.06
<b>17.5</b>	19673.52	19664.45	19647.42	19624.55	19591.08	19566.24	19544.05	19524.66	19508.23	19457.52
<b>20.0</b>	19457.95	19449.46	19436.79	19412.68	19376.95	19344.47	19315.43	19290.01	19268.40	19212.34
<b>22.5</b>	19216.31	19190.54	19178.96	19173.02	19130.47	19086.04	19046.18	19011.25	18981.59	18922.40
<b>25.0</b>	18909.67	18886.10	18883.51	18858.02	18834.06	18765.75	18701.89	18644.08	18593.92	18537.81
<b>27.5</b>	18481.32	18429.44	18395.24	18378.36	18388.34	18275.32	18169.49	18076.43	17997.21	17950.29
<b>30.0</b>	17980.93	17793.86	17753.06	17728.59	17721.59	17657.61	17530.21	17418.62	17323.61	17278.47
<b>32.5</b>	17424.16	17202.60	17068.42	17043.26	17034.10	17019.33	16890.33	16779.95	16686.90	16636.41
<b>35.0</b>	16889.79	16674.99	16492.25	16457.22	16441.50	16450.08	16355.26	16258.67	16177.38	16115.16
<b>37.5</b>	16432.91	16241.53	16065.15	15937.48	15930.59	15941.52	15872.61	15759.92	15663.99	15605.50
<b>40.0</b>	15892.16	15825.84	15617.93	15420.70	15385.34	15397.42	15358.35	15225.48	15111.90	15059.02
<b>42.5</b>	15273.82	15329.53	15149.48	14918.14	14792.17	14819.60	14803.59	14645.51	14510.59	14466.98
<b>45.0</b>	14607.92	14656.81	14676.65	14388.03	14151.49	14166.14	14211.40	14026.78	13869.38	13835.42
<b>47.5</b>	13941.17	13935.52	14011.57	13843.31	13539.67	13477.97	13529.78	13362.13	13177.03	13158.36
<b>50.0</b>	13374.89	13166.88	13235.66	13252.75	12915.72	12736.25	12796.61	12656.20	12440.04	12434.73
<b>52.5</b>	12777.94	12499.15	12404.04	12511.53	12250.52	11912.38	11986.24	11873.01	11599.98	11624.24
<b>55.0</b>	12039.23	11825.01	11487.94	11562.46	11518.31	11041.55	11048.54	10984.41	10650.02	10713.49
<b>57.5</b>	11089.20	11074.91	10689.24	10464.73	10663.14	10128.98	9964.88	9973.18	9541.65	9660.17
<b>60.0</b>	10050.34	9948.28	9825.81	9285.00	9388.53	9116.55	8777.07	8878.57	8478.18	8607.51
<b>62.5</b>	9033.47	8690.15	8704.96	8400.23	8181.28	8241.78	7804.33	7965.74	7561.99	7708.14
<b>65.0</b>	7933.91	7807.73	7665.27	7670.38	7153.78	7342.07	6838.31	7013.39	6564.50	6728.03
<b>67.5</b>	6700.20	6863.17	6685.14	6556.64	6347.96	6174.91	5932.25	5916.82	5459.54	5597.12
<b>70.0</b>	5884.73	5547.59	5742.86	5376.84	5438.98	4846.31	4960.62	4716.87	4390.02	4453.33
<b>72.5</b>	4832.99	4682.90	4351.16	4505.62	4175.89	4041.83	4068.74	3681.40	3436.00	3412.77
<b>75.0</b>	3753.99	3582.33	3581.23	3246.12	3302.62	3208.34	2872.01	2613.63	2476.12	2366.60
<b>77.5</b>	2915.24	2769.37	2432.48	2495.92	2250.05	2059.44	1915.41	1746.64	1585.57	1524.94
<b>80.0</b>	2049.07	1785.87	1793.98	1476.13	1522.62	1378.83	1286.37	1177.60	901.76	983.79
<b>82.5</b>	1250.75	1197.94	1023.75	792.54	720.10	706.85	630.13	522.31	413.22	418.10
<b>85.0</b>	609.95	561.43	443.37	358.62	242.39	191.26	129.21	160.51	141.61	171.55
<b>87.5</b>	0.00	0.00	0.00	44.41	67.70	47.89	38.07	34.63	54.88	72.88

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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 27.43 0.00

**Vert.  
Angles**

**Horizontal Angles**

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
2.5	20241.33	20232.77	20224.29	20215.93	20207.70	20199.60	20191.67	20183.90	20176.31	20168.93
5.0	20182.39	20165.92	20149.74	20133.87	20118.33	20103.16	20088.38	20074.00	20060.05	20046.56
7.5	20089.06	20065.71	20043.00	20020.97	19999.65	19979.06	19960.84	19939.71	19920.64	19902.32
10.0	19966.22	19936.22	19907.24	19879.33	19852.53	19826.87	19802.39	19779.12	19759.47	19735.80
12.5	19813.44	19778.08	19744.37	19712.35	19686.08	19652.93	19624.98	19598.63	19566.32	19536.82
15.0	19627.59	19587.36	19549.40	19513.71	19480.33	19449.26	19419.23	19369.88	19328.66	19290.88
17.5	19409.92	19365.44	19324.09	19292.04	19250.21	19203.52	19149.83	19100.50	19054.88	19013.19
20.0	19160.27	19112.20	19068.14	19028.07	18977.30	18916.15	18852.13	18797.08	18753.11	18702.71
22.5	18868.77	18820.65	18777.95	18734.34	18654.60	18582.24	18526.34	18458.34	18406.23	18393.40
25.0	18490.25	18450.51	18417.87	18339.29	18265.94	18169.86	18103.35	18059.87	18064.31	18074.37
27.5	17917.77	17899.14	17889.27	17757.20	17654.56	17571.53	17517.62	17567.55	17623.20	17677.81
30.0	17250.27	17238.62	17166.12	17037.68	16926.81	16835.64	16892.66	16965.35	17056.71	17154.86
32.5	16602.30	16584.93	16462.26	16332.81	16213.68	16189.26	16249.20	16331.50	16440.42	16285.92
35.0	16068.08	16019.34	15870.85	15748.44	15641.74	15661.73	15697.00	15747.31	15582.95	15433.38
37.5	15564.16	15480.54	15319.35	15177.57	15155.52	15182.56	15225.25	15058.61	14865.24	14693.80
40.0	15025.89	14901.31	14727.65	14602.36	14638.19	14688.07	14579.99	14356.21	14157.89	14068.27
42.5	14446.97	14288.00	14087.96	14039.85	14098.02	14099.72	13840.21	13611.40	13503.70	13463.52
45.0	13828.43	13597.99	13397.87	13448.16	13550.91	13318.38	13051.76	12899.13	12863.81	12841.58
47.5	13123.49	12873.00	12736.59	12838.33	12794.42	12484.70	12258.45	12226.43	12205.90	12053.75
50.0	12354.12	12074.93	12047.18	12177.95	11909.05	11588.20	11550.64	11547.13	11382.16	11216.73
52.5	11490.59	11172.06	11281.48	11309.43	10930.80	10759.61	10780.07	10655.69	10474.45	10374.72
55.0	10502.46	10232.59	10455.41	10198.58	9820.08	9898.67	9855.69	9639.47	9528.14	9513.85
57.5	9354.75	9207.18	9463.44	8974.98	8855.90	8913.76	8644.45	8572.34	8623.52	8527.36
60.0	8263.60	8270.25	8197.18	7815.50	7926.67	7723.56	7488.21	7600.00	7595.65	7387.18
62.5	7300.70	7465.24	7094.80	6975.62	6917.09	6627.52	6652.68	6580.59	6385.85	6387.61
65.0	6275.56	6501.24	5975.96	6135.04	5811.85	5756.05	5681.96	5440.59	5482.81	5595.63
67.5	5290.11	5245.15	5056.82	4914.32	4793.71	4815.19	4513.37	4551.75	4643.73	4439.18
70.0	4385.99	4006.15	4159.67	3821.10	3910.95	3620.16	3701.47	3620.62	3427.85	3402.34
72.5	3522.38	3178.39	2991.68	3082.44	2788.71	2841.72	2768.38	2589.23	2569.34	2548.10
75.0	2356.96	2360.66	2199.37	2005.72	2061.77	1939.30	1855.34	1869.72	1696.42	1525.24
77.5	1455.27	1342.29	1361.01	1349.46	1200.78	1232.91	1151.52	968.88	1023.96	1084.30
80.0	903.71	836.87	779.88	675.65	708.00	549.83	598.70	650.38	627.49	591.16
82.5	409.89	391.59	332.84	280.83	291.17	319.29	302.84	277.61	239.76	187.45
85.0	148.31	137.42	112.81	124.14	116.05	100.82	72.04	52.49	34.69	17.28
87.5	58.12	43.58	38.29	16.24	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

**Vert.  
Angles**

**Horizontal Angles**

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
2.5	20161.75	20154.80	20148.54	20141.55	20135.05	20128.80	20122.83	20117.13	20111.72	20106.61
5.0	20033.55	20021.03	20010.82	19997.37	19985.74	19974.66	19964.16	19954.25	19944.96	19936.83
7.5	19884.79	19868.06	19852.17	19836.87	19821.77	19813.98	19791.23	19778.28	19762.91	19749.80
10.0	19718.38	19689.82	19666.50	19644.51	19623.32	19604.01	19588.48	19569.58	19554.15	19542.73
12.5	19501.48	19471.86	19444.77	19419.76	19396.26	19375.24	19356.08	19338.81	19324.09	19310.22
15.0	19256.38	19223.91	19194.94	19168.85	19145.32	19131.03	19120.44	19115.52	19103.56	19099.97
17.5	18983.62	18942.33	18920.10	18910.87	18902.73	18896.37	18891.19	18886.95	18883.15	18878.79
20.0	18674.40	18664.86	18657.74	18653.20	18651.02	18649.96	18650.75	18652.36	18581.51	18522.50
22.5	18385.34	18381.10	18379.83	18381.24	18389.16	18308.08	18227.17	18153.86	18085.99	18024.95

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**CANDELA TABULATION - (Cont.)**

25.0	18075.56	18081.90	18087.69	17980.79	17881.04	17790.16	17707.67	17633.68	17567.52	17517.93
27.5	17721.38	17655.43	17529.73	17421.77	17327.69	17243.66	17177.66	17127.94	17088.60	17052.78
30.0	17039.31	16927.67	16829.34	16747.45	16704.28	16696.10	16676.30	16646.17	16612.83	16582.39
32.5	16161.39	16055.65	15988.95	16021.48	16068.11	16109.45	16135.95	16134.19	16083.53	16045.30
35.0	15298.23	15233.13	15262.42	15322.97	15392.56	15431.19	15418.20	15419.98	15429.31	15433.83
37.5	14611.86	14586.80	14585.82	14618.17	14565.51	14545.34	14553.55	14589.50	14664.03	14713.30
40.0	14025.80	13996.55	13936.21	13847.19	13769.22	13704.62	13716.63	13779.20	13860.10	13947.05
42.5	13434.12	13328.99	13218.50	13129.66	13062.88	13013.77	12995.55	13035.02	13121.43	13104.59
45.0	12708.35	12584.00	12484.21	12428.02	12384.92	12348.19	12301.91	12240.88	12220.58	12205.41
47.5	11912.21	11813.99	11770.69	11734.04	11711.69	11593.65	11503.69	11430.60	11378.28	11400.43
50.0	11110.95	11071.66	11052.98	10965.99	10853.78	10760.07	10693.85	10703.42	10713.76	10731.24
52.5	10335.60	10313.19	10168.45	10066.17	9980.62	9997.42	10017.28	10039.84	10062.24	9923.89
55.0	9472.92	9314.43	9195.03	9191.85	9260.91	9306.99	9290.10	9114.70	8968.76	8836.27
57.5	8324.32	8221.90	8348.78	8435.45	8486.54	8306.72	8120.78	7958.29	7860.47	7798.80
60.0	7271.57	7337.35	7526.33	7412.77	7248.57	7095.90	6986.42	6899.69	6870.24	6829.08
62.5	6429.73	6356.67	6217.69	6130.57	6093.52	6045.62	5974.75	5886.08	5817.49	5774.21
65.0	5405.34	5191.10	5061.23	5072.15	5101.60	5033.72	4902.00	4758.11	4643.51	4632.67
67.5	4266.24	4223.83	4152.77	4069.69	4005.30	3881.06	3763.35	3715.56	3704.67	3769.67
70.0	3376.96	3301.00	3135.99	2974.26	2906.87	2975.95	2992.95	2984.90	2957.28	2979.16
72.5	2377.19	2209.89	2238.95	2250.51	2260.68	2304.70	2268.30	2221.08	2157.05	2111.92
75.0	1592.90	1623.78	1676.11	1632.79	1574.76	1541.43	1496.55	1437.72	1370.77	1304.87
77.5	1102.26	1057.23	1018.94	963.40	902.17	843.24	784.68	711.78	632.49	548.54
80.0	556.38	513.05	450.20	381.12	292.81	249.76	241.00	229.79	216.72	199.63
82.5	132.90	121.46	108.16	92.07	73.99	54.28	32.40	8.18	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	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22	20271.22
2.5	20101.82	20097.34	20093.20	20089.39	20086.17	20082.63	20079.44	20076.61	20074.15	20072.05
5.0	19927.62	19919.38	19911.80	19904.89	19898.67	19892.75	19887.01	19881.97	19877.66	19874.31
7.5	19737.95	19727.77	19716.91	19707.63	19699.62	19692.26	19685.42	19679.85	19675.21	19670.57
10.0	19527.44	19515.66	19505.63	19495.74	19487.66	19480.59	19474.39	19469.94	19465.51	19462.80
12.5	19302.97	19295.95	19289.78	19283.69	19278.01	19273.08	19268.93	19265.50	19262.89	19260.55
15.0	19090.99	19086.79	19082.07	19078.46	19073.95	19069.83	19068.21	19063.22	19061.34	19059.88
17.5	18875.58	18872.94	18840.14	18800.03	18763.03	18730.03	18701.10	18675.50	18654.05	18636.92
20.0	18464.59	18413.41	18367.63	18330.93	18291.34	18260.56	18234.10	18211.54	18194.04	18175.57
22.5	17970.59	17922.49	17882.64	17845.83	17819.14	17796.14	17776.27	17758.78	17743.06	17728.97
25.0	17485.27	17451.21	17422.61	17397.13	17373.05	17351.43	17332.64	17315.97	17300.74	17286.45
27.5	17020.54	16992.16	16966.82	16944.72	16918.55	16891.19	16873.21	16851.39	16836.25	16823.66
30.0	16544.38	16500.02	16462.86	16432.57	16408.79	16392.11	16375.10	16363.84	16356.27	16351.04
32.5	15993.67	15957.41	15927.59	15903.93	15888.33	15856.99	15830.16	15806.21	15786.18	15767.45
35.0	15420.95	15380.28	15338.41	15299.96	15268.25	15236.97	15212.12	15189.72	15169.28	15151.20
37.5	14731.35	14729.92	14698.95	14672.48	14643.94	14608.83	14577.80	14549.11	14530.53	14509.24
40.0	13998.14	14006.06	13985.58	13972.14	13949.81	13922.31	13898.18	13879.97	13865.59	13856.42
42.5	13112.87	13130.55	13156.96	13195.88	13227.10	13234.32	13232.99	13230.29	13232.52	13227.03
45.0	12199.45	12225.39	12338.15	12472.80	12565.15	12603.96	12610.40	12610.01	12610.10	12609.84
47.5	11435.81	11483.87	11599.65	11757.89	11910.00	11926.46	11848.66	11780.75	11726.94	11678.12
50.0	10755.78	10743.37	10707.51	10735.36	10776.82	10786.75	10733.04	10693.08	10661.93	10624.71
52.5	9798.73	9671.29	9583.94	9561.97	9583.09	9621.82	9629.46	9627.43	9625.46	9599.00
55.0	8721.97	8620.24	8547.09	8517.12	8541.16	8569.83	8576.10	8594.06	8608.97	8584.28
57.5	7732.83	7661.05	7586.55	7542.14	7540.09	7524.61	7496.71	7506.77	7545.84	7540.95
60.0	6772.93	6685.22	6590.63	6513.31	6464.19	6418.55	6370.62	6376.61	6444.68	6485.11

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**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	5704.63	5633.13	5553.67	5472.58	5413.82	5378.71	5349.59	5369.81	5466.16	5527.78
<b>65.0</b>	4652.20	4657.06	4632.49	4588.95	4550.74	4513.00	4480.19	4492.39	4568.04	4597.15
<b>67.5</b>	3829.42	3820.26	3786.68	3737.08	3686.46	3638.00	3592.63	3583.00	3629.45	3647.91
<b>70.0</b>	2991.20	2953.09	2903.03	2841.19	2784.07	2739.42	2690.32	2657.61	2677.84	2691.63
<b>72.5</b>	2104.65	2063.80	2007.46	1952.18	1894.70	1849.39	1803.47	1762.10	1757.57	1755.28
<b>75.0</b>	1268.45	1221.39	1158.03	1093.56	1031.80	980.22	926.97	880.54	858.17	826.03
<b>77.5</b>	477.10	447.31	438.78	430.93	421.49	418.02	407.90	398.21	398.93	390.38
<b>80.0</b>	186.11	169.84	150.72	132.22	113.03	95.91	78.03	61.00	46.98	33.19
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	<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>	20271.22	20271.22	20271.22	20271.22	20271.22
<b>2.5</b>	20070.33	20068.99	20068.03	20067.45	20067.27
<b>5.0</b>	19870.69	19867.71	19865.48	19864.01	19863.31
<b>7.5</b>	19667.14	19664.81	19662.31	19660.98	19660.81
<b>10.0</b>	19460.33	19458.67	19457.96	19457.36	19458.30
<b>12.5</b>	19258.94	19257.11	19256.82	19254.94	19255.06
<b>15.0</b>	19058.10	19056.85	19054.73	19052.93	19051.82
<b>17.5</b>	18623.99	18613.32	18605.82	18601.49	18600.31
<b>20.0</b>	18163.41	18155.23	18150.41	18148.21	18148.79
<b>22.5</b>	17717.42	17708.90	17702.82	17698.60	17696.54
<b>25.0</b>	17274.10	17264.26	17255.98	17249.50	17244.30
<b>27.5</b>	16813.36	16805.43	16799.77	16795.87	16793.50
<b>30.0</b>	16348.00	16344.27	16342.33	16341.97	16342.71
<b>32.5</b>	15751.90	15738.88	15726.95	15719.55	15716.38
<b>35.0</b>	15134.72	15119.17	15106.21	15095.90	15090.05
<b>37.5</b>	14497.27	14483.07	14474.56	14466.96	14464.68
<b>40.0</b>	13848.11	13843.70	13839.85	13837.57	13839.31
<b>42.5</b>	13224.56	13223.98	13217.83	13214.17	13214.19
<b>45.0</b>	12608.66	12603.58	12597.08	12591.06	12589.06
<b>47.5</b>	11636.92	11604.64	11580.37	11564.01	11559.20
<b>50.0</b>	10590.89	10563.36	10544.94	10532.37	10529.33
<b>52.5</b>	9568.57	9541.52	9521.73	9505.93	9500.56
<b>55.0</b>	8551.80	8522.18	8500.36	8479.82	8471.79
<b>57.5</b>	7512.90	7485.44	7465.17	7449.66	7442.27
<b>60.0</b>	6468.70	6446.66	6430.22	6419.47	6412.75
<b>62.5</b>	5514.09	5497.61	5484.85	5473.15	5467.14
<b>65.0</b>	4577.82	4557.06	4543.42	4527.81	4521.53
<b>67.5</b>	3625.32	3602.39	3593.22	3580.86	3575.20
<b>70.0</b>	2671.90	2646.97	2642.42	2633.83	2628.87
<b>72.5</b>	1727.39	1703.03	1698.91	1687.50	1683.58
<b>75.0</b>	784.83	759.88	755.94	741.19	738.29
<b>77.5</b>	377.63	371.29	374.45	369.72	369.15
<b>80.0</b>	21.24	12.04	5.50	1.37	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 : HZX-EX-A4-400W-5000K-D120.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7450.21	13.00	13.00
0-30	15976.75	27.80	27.80
0-40	26329.8	45.80	45.80
0-60	46862.64	81.50	81.50
0-80	57280.51	99.60	99.60
0-90	57521.42	100.00	100.00
10-90	55608.38	96.70	96.70
20-40	18879.58	32.80	32.80
20-50	29698.63	51.60	51.60
40-70	27581.01	47.90	47.90
60-80	10417.87	18.10	18.10
70-80	3369.71	5.90	5.90
80-90	240.92	0.40	0.40
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	57521.42	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1913.05
10-20	5537.15
20-30	8526.55
30-40	10353.04
40-50	10819.04
50-60	9713.81
60-70	7048.15
70-80	3369.71
80-90	240.92
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

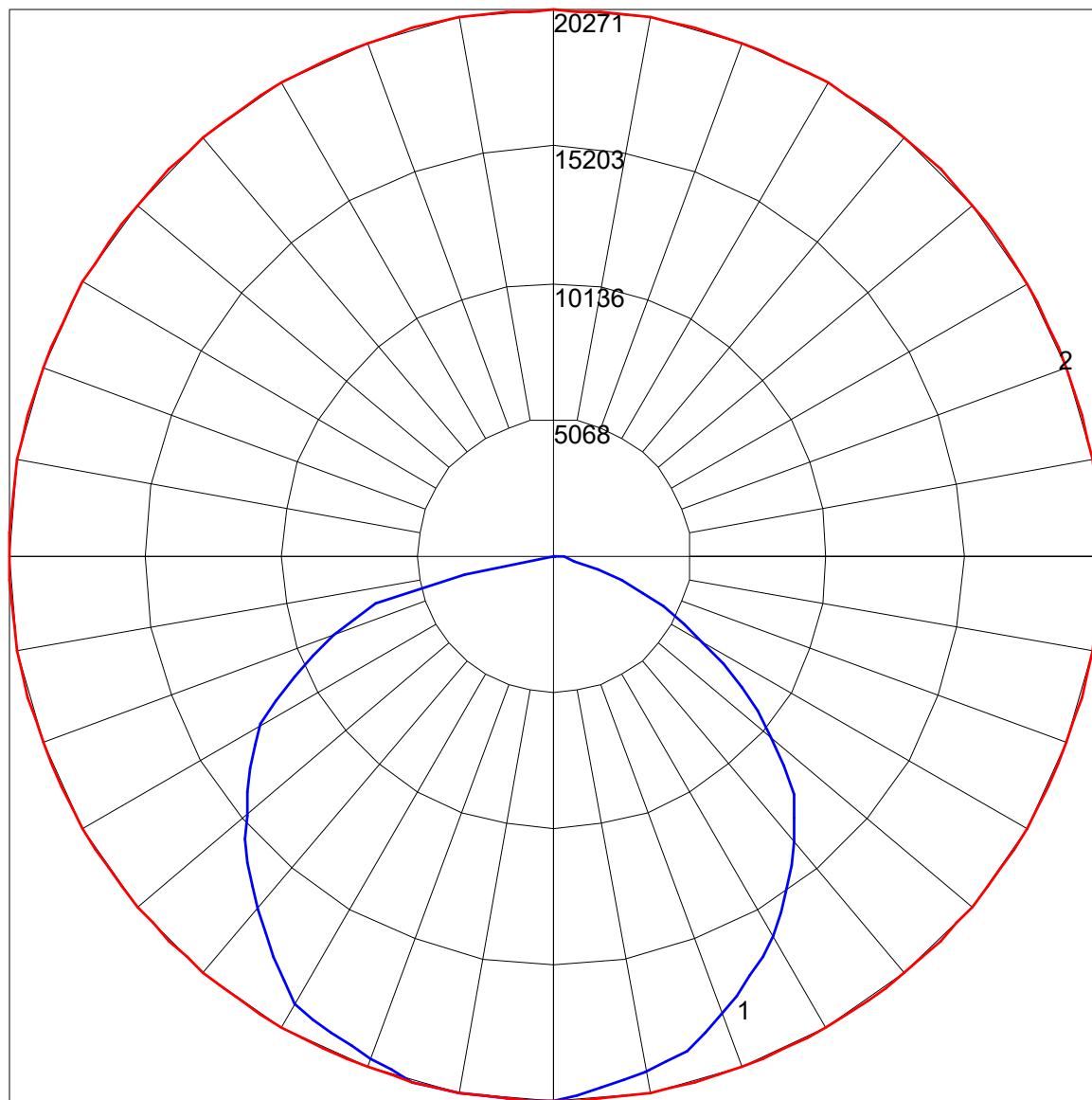
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZX-EX-A4-400W-5000K-D120.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

POLAR GRAPH



Maximum Candela = 20271.22 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)