

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS35XHTLO5K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] BEGHELLI  
[TESTDATE] 2021-08-07  
[ISSUEDATE] 2021-08-07 15:40:04  
[NEARFIELD]  
[LAMPPOSITION] 0,0  
[OTHER]  
[MANUFAC] BEGHELLI  
[LUMCAT] LED  
[LUMINAIRE] HZCAS35XHTLO5K

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

### CHARACTERISTICS

Lumens Per Lamp	1000 (1 lamp)
Total Lamp Lumens	1000
Luminaire Lumens	35881
Total Luminaire Efficiency	3588 %
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	252.759
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

### 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>
0.0	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13259.01	13258.79	13258.75	13258.90	13259.24	13259.77	13260.48	13261.38	13262.46	13263.59
5.0	13160.57	13160.12	13160.05	13160.36	13161.03	13161.68	13162.03	13162.77	13163.87	13164.65
7.5	13062.13	13061.46	13061.35	13061.73	13061.46	13061.56	13061.75	13062.58	13063.30	13064.59
10.0	12963.68	12962.79	12962.64	12962.03	12961.62	12961.28	12960.56	12960.53	12959.74	12959.63
12.5	12865.24	12864.13	12863.65	12862.45	12861.40	12859.37	12857.52	12855.48	12853.49	12851.52
15.0	12766.80	12765.47	12764.32	12762.79	12759.79	12756.48	12752.96	12748.60	12744.46	12739.30
17.5	12413.97	12413.82	12416.58	12421.64	12428.30	12437.42	12448.78	12462.68	12476.72	12499.30
20.0	12061.14	12060.72	12063.14	12067.12	12073.45	12082.44	12093.37	12104.56	12124.15	12143.80
22.5	11708.31	11707.40	11708.96	11712.49	11718.51	11725.97	11736.02	11749.56	11765.96	11785.80
25.0	11355.48	11354.17	11355.27	11357.39	11362.47	11368.59	11377.95	11390.39	11406.30	11425.88
27.5	11002.65	11000.59	11000.50	11001.99	11005.30	11010.62	11018.45	11029.66	11045.54	11062.92
30.0	10649.82	10646.95	10645.68	10646.62	10647.59	10651.83	10657.90	10668.81	10681.80	10698.19
32.5	10264.49	10261.60	10260.50	10262.39	10263.88	10268.74	10277.93	10290.65	10305.96	10326.40
35.0	9879.16	9875.95	9874.18	9874.19	9875.19	9878.63	9886.64	9895.04	9911.34	9928.28
37.5	9493.84	9490.30	9487.82	9486.14	9486.35	9488.46	9494.91	9503.02	9515.97	9528.80
40.0	9108.51	9104.66	9101.21	9098.25	9096.80	9098.28	9101.75	9108.84	9117.44	9127.10
42.5	8723.19	8719.02	8714.62	8710.39	8707.60	8707.25	8708.76	8713.82	8718.10	8720.99
45.0	8337.86	8333.39	8328.03	8322.37	8318.62	8316.22	8315.69	8317.68	8317.46	8312.01
47.5	7721.61	7719.00	7720.79	7726.98	7740.14	7759.55	7785.31	7815.26	7845.89	7876.73
50.0	7105.35	7101.56	7103.53	7109.04	7121.72	7139.84	7161.93	7185.31	7204.24	7220.48
52.5	6489.10	6485.10	6485.96	6490.36	6502.14	6520.16	6537.30	6552.78	6555.51	6556.94
55.0	5872.85	5868.21	5868.90	5873.29	5885.32	5899.64	5910.45	5915.41	5900.68	5891.28
57.5	5256.59	5251.23	5251.49	5255.50	5267.15	5278.30	5281.95	5273.28	5240.63	5226.83
60.0	4640.34	4634.30	4634.18	4637.88	4649.24	4656.49	4650.89	4627.65	4577.41	4565.19
62.5	4006.59	4001.43	4002.46	4007.15	4017.53	4024.40	4019.52	3986.26	3930.26	3921.23
65.0	3372.83	3368.48	3370.37	3375.29	3383.01	3389.77	3387.69	3358.00	3315.80	3319.00
67.5	2739.07	2735.57	2738.45	2742.89	2748.44	2756.66	2758.35	2735.49	2710.08	2718.99
70.0	2105.31	2102.71	2106.68	2111.72	2114.21	2124.89	2130.76	2118.10	2107.70	2120.94
72.5	1471.56	1469.89	1475.03	1479.64	1480.26	1493.37	1505.11	1505.52	1508.19	1524.98
75.0	837.80	837.10	843.49	847.53	846.54	864.33	882.20	896.99	910.05	930.92
77.5	418.90	418.72	422.47	424.92	424.83	434.58	444.66	453.14	458.59	467.54
80.0	0.00	1.56	6.21	13.78	23.87	36.94	52.40	69.54	87.48	107.54
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. 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>
0.0	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13264.85	13265.92	13267.18	13268.62	13270.23	13272.02	13273.98	13276.11	13278.40	13280.85
5.0	13166.89	13168.58	13170.65	13173.10	13175.93	13178.90	13181.57	13184.62	13188.04	13191.84
7.5	13065.71	13066.80	13068.47	13070.68	13072.80	13075.54	13078.89	13082.60	13086.10	13093.50
10.0	12959.64	12959.86	12960.57	12961.26	12962.39	12964.31	12966.72	12969.99	12973.82	12977.08
12.5	12849.52	12847.52	12846.42	12846.15	12846.15	12845.34	12845.64	12846.76	12848.97	12851.74
15.0	12735.28	12732.37	12727.86	12723.67	12720.82	12718.92	12716.76	12715.88	12715.06	12715.80
17.5	12522.18	12546.45	12575.93	12597.12	12588.59	12584.74	12579.46	12574.23	12570.40	12567.95
20.0	12166.73	12193.92	12223.44	12256.28	12292.52	12332.19	12375.79	12426.00	12417.25	12409.81
22.5	11809.37	11835.78	11865.87	11898.86	11935.84	11976.71	12021.34	12068.93	12122.20	12178.65
25.0	11448.11	11474.06	11503.49	11536.55	11573.76	11609.79	11658.85	11706.84	11758.82	11815.22
27.5	11084.27	11109.03	11137.05	11169.39	11205.16	11244.10	11286.00	11331.72	11381.27	11427.84
30.0	10718.10	10740.39	10767.46	10797.46	10829.44	10863.97	10901.68	10942.85	10987.27	11036.75

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**CANDELA TABULATION - (Cont.)**

32.5	10348.55	10369.82	10393.75	10418.56	10442.19	10474.11	10505.65	10540.13	10579.69	10618.78
35.0	9949.09	9972.59	9997.59	10021.63	10052.03	10073.42	10097.74	10125.94	10132.07	10153.09
37.5	9541.37	9562.00	9578.91	9597.67	9614.54	9636.94	9668.76	9664.69	9645.40	9627.71
40.0	9136.47	9144.59	9152.53	9153.64	9151.77	9158.40	9144.71	9125.31	9104.17	9077.21
42.5	8722.26	8720.86	8711.12	8687.91	8666.06	8634.90	8614.76	8579.51	8552.89	8538.19
45.0	8303.17	8290.44	8250.61	8198.99	8139.91	8106.56	8080.15	8055.34	8038.11	8047.41
47.5	7879.54	7832.29	7767.04	7692.28	7628.59	7597.13	7578.87	7561.47	7560.47	7570.23
50.0	7242.10	7237.29	7201.74	7165.24	7123.33	7114.90	7102.61	7093.11	7094.88	7100.99
52.5	6567.71	6554.46	6524.55	6505.28	6534.06	6588.21	6645.06	6633.41	6623.38	6618.46
55.0	5897.94	5884.17	5863.46	5864.42	5904.77	5946.20	6005.88	6063.85	6127.02	6129.69
57.5	5235.30	5223.75	5216.84	5235.25	5271.87	5317.05	5360.02	5407.23	5454.44	5518.27
60.0	4580.14	4586.26	4591.58	4614.81	4647.24	4678.00	4710.09	4743.46	4770.12	4832.57
62.5	3938.23	3956.07	3970.10	3992.67	4017.11	4037.20	4061.47	4064.78	4086.32	4149.49
65.0	3337.22	3352.63	3362.78	3381.89	3390.57	3395.21	3403.77	3378.68	3414.42	3465.45
67.5	2739.26	2756.41	2771.37	2790.18	2801.49	2803.05	2777.77	2727.48	2748.84	2799.70
70.0	2144.55	2164.03	2180.78	2204.25	2221.16	2229.87	2202.39	2187.95	2205.04	2217.31
72.5	1552.16	1575.35	1595.27	1624.18	1649.42	1661.90	1651.05	1663.15	1688.20	1704.04
75.0	961.98	989.42	1013.08	1049.85	1083.42	1106.03	1120.87	1152.73	1182.01	1207.03
77.5	480.99	489.66	491.52	504.47	523.48	561.19	603.22	642.30	684.75	725.35
80.0	129.01	149.89	169.07	191.43	210.54	227.52	245.09	258.24	268.72	281.23
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.19	36.13	61.26
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	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13282.72	13286.05	13289.01	13291.94	13295.01	13298.22	13301.56	13305.02	13308.61	13312.30
5.0	13195.99	13199.94	13205.15	13210.09	13215.39	13221.03	13226.99	13233.28	13239.87	13246.75
7.5	13095.03	13099.16	13106.18	13112.43	13119.28	13126.72	13134.73	13141.48	13152.17	13161.27
10.0	12981.29	12984.01	12992.19	12998.71	13007.65	13014.48	13023.54	13033.11	13043.60	13055.00
12.5	12855.09	12859.71	12864.77	12870.70	12877.94	12886.20	12895.09	12905.32	12916.89	12926.02
15.0	12716.42	12718.72	12722.08	12726.75	12730.93	12740.34	12749.25	12759.94	12772.06	12785.29
17.5	12566.27	12566.00	12566.78	12568.97	12573.09	12578.62	12586.39	12595.89	12607.01	12620.52
20.0	12404.13	12400.00	12397.21	12396.01	12396.90	12400.14	12405.99	12412.61	12422.33	12435.02
22.5	12230.57	12220.48	12212.23	12205.55	12200.76	12198.99	12198.97	12201.73	12208.19	12218.03
25.0	11875.48	11939.84	12006.81	11992.56	11980.71	11972.89	11966.91	11964.13	11967.20	11973.71
27.5	11492.08	11555.13	11624.16	11691.95	11739.41	11722.95	11710.04	11699.15	11695.48	11689.84
30.0	11091.41	11148.69	11210.58	11275.58	11353.61	11425.38	11381.99	11353.92	11327.41	11303.00
32.5	10655.20	10696.43	10749.36	10780.08	10840.41	10897.97	10974.01	10920.83	10879.06	10848.19
35.0	10161.37	10177.98	10199.91	10214.37	10270.92	10325.94	10390.59	10464.31	10422.42	10392.04
37.5	9618.07	9622.25	9622.51	9670.52	9719.61	9780.63	9853.42	9942.89	10030.88	10011.13
40.0	9064.53	9077.69	9113.61	9160.84	9215.93	9291.91	9380.92	9485.95	9606.29	9662.29
42.5	8552.27	8593.34	8634.84	8687.25	8750.07	8827.64	8913.37	9012.17	9125.25	9252.99
45.0	8079.65	8120.85	8174.32	8219.91	8275.21	8341.20	8419.50	8512.99	8619.94	8742.59
47.5	7607.84	7636.36	7679.99	7731.84	7779.44	7838.98	7898.69	7982.55	8093.48	8211.28
50.0	7108.41	7138.67	7170.17	7211.39	7267.09	7321.35	7376.85	7455.81	7547.68	7642.69
52.5	6621.15	6632.65	6652.21	6679.73	6718.69	6777.67	6837.06	6895.34	6968.29	7063.41
55.0	6121.78	6120.06	6119.05	6127.16	6155.35	6192.71	6233.73	6296.20	6356.64	6440.89
57.5	5601.61	5592.42	5568.37	5564.45	5539.48	5549.76	5592.22	5670.20	5716.81	5742.86
60.0	4900.94	4958.95	5012.58	4942.48	4896.80	4909.35	4961.45	4982.64	4968.64	5012.44
62.5	4205.47	4259.48	4292.28	4269.90	4272.50	4303.58	4308.99	4286.53	4307.35	4371.01
65.0	3520.45	3566.61	3554.85	3567.09	3636.65	3706.53	3692.27	3680.16	3700.81	3745.37
67.5	2852.42	2881.81	2875.58	2912.67	2982.41	3049.61	3094.44	3090.05	3071.10	3093.53

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	2212.19	2223.64	2224.57	2281.38	2347.43	2395.10	2435.24	2446.22	2450.92	2485.42
<b>72.5</b>	1705.09	1683.87	1652.75	1666.67	1730.41	1766.72	1802.79	1824.54	1877.80	1903.33
<b>75.0</b>	1225.07	1211.17	1215.84	1223.92	1207.80	1172.01	1227.09	1270.10	1322.90	1326.80
<b>77.5</b>	756.75	773.66	798.44	820.31	815.07	806.21	784.59	759.13	809.00	853.49
<b>80.0</b>	305.79	355.62	399.21	437.86	460.27	479.10	479.08	472.08	457.23	441.85
<b>82.5</b>	82.29	101.03	116.81	129.32	139.21	175.52	208.64	229.61	243.62	241.60
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	17.53	34.16	48.69	64.51	85.73
<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>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>	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
<b>2.5</b>	13316.10	13319.99	13323.97	13328.03	13332.17	13336.37	13340.63	13339.25	13337.93	13336.67
<b>5.0</b>	13253.91	13261.34	13267.66	13276.16	13284.71	13293.28	13301.88	13299.07	13296.27	13293.47
<b>7.5</b>	13170.95	13181.20	13191.99	13203.31	13215.13	13227.42	13240.16	13236.08	13232.44	13229.23
<b>10.0</b>	13067.27	13080.41	13094.37	13106.10	13123.32	13140.61	13157.94	13152.18	13146.42	13140.69
<b>12.5</b>	12943.69	12958.64	12974.87	12992.38	13011.11	13031.05	13052.16	13045.57	13040.12	13035.81
<b>15.0</b>	12800.35	12817.20	12835.83	12856.18	12875.13	12901.15	12927.23	12918.81	12910.42	12908.95
<b>17.5</b>	12636.39	12654.54	12674.97	12697.76	12722.85	12750.18	12779.66	12770.82	12764.10	12759.54
<b>20.0</b>	12450.12	12468.48	12490.06	12514.80	12536.91	12572.09	12607.35	12595.78	12584.24	12585.72
<b>22.5</b>	12232.02	12245.05	12271.40	12296.56	12325.97	12359.59	12397.36	12386.39	12379.52	12376.75
<b>25.0</b>	11984.92	12000.52	12021.52	12047.88	12079.54	12113.92	12158.45	12144.08	12139.73	12137.88
<b>27.5</b>	11691.49	11701.84	11719.52	11741.54	11772.56	11812.44	11860.96	11848.20	11843.90	11848.07
<b>30.0</b>	11290.89	11289.06	11297.47	11317.03	11347.88	11384.42	11443.82	11425.03	11429.06	11438.68
<b>32.5</b>	10829.66	10823.44	10820.28	10849.22	10880.66	10924.75	10981.93	10968.08	10967.56	10980.18
<b>35.0</b>	10375.89	10371.78	10383.88	10405.54	10437.63	10474.72	10536.56	10516.61	10522.13	10533.52
<b>37.5</b>	10001.48	10004.97	10018.21	10040.59	10073.53	10118.78	10176.35	10161.55	10158.96	10168.47
<b>40.0</b>	9643.81	9637.47	9642.49	9660.69	9692.91	9732.25	9799.58	9778.69	9785.53	9799.02
<b>42.5</b>	9257.19	9241.68	9240.79	9255.62	9285.44	9332.16	9395.86	9383.32	9387.71	9408.87
<b>45.0</b>	8843.48	8818.67	8810.82	8820.40	8849.13	8887.62	8964.19	8942.11	8957.80	8983.22
<b>47.5</b>	8347.83	8372.14	8353.45	8350.11	8380.40	8427.08	8496.33	8485.60	8497.14	8524.44
<b>50.0</b>	7784.76	7899.72	7867.62	7867.73	7888.96	7923.74	8010.61	7987.21	8015.29	8055.80
<b>52.5</b>	7187.26	7334.01	7344.38	7330.73	7347.34	7396.25	7478.87	7467.91	7490.18	7543.10
<b>55.0</b>	6539.75	6662.94	6757.98	6734.85	6744.51	6769.25	6868.32	6840.07	6888.27	6953.96
<b>57.5</b>	5821.26	5958.33	6122.24	6076.48	6071.71	6116.98	6216.53	6208.81	6254.91	6341.67
<b>60.0</b>	5102.78	5188.37	5297.77	5336.09	5330.04	5330.82	5429.03	5401.02	5480.00	5577.75
<b>62.5</b>	4422.21	4516.89	4633.23	4745.05	4726.05	4752.61	4829.56	4826.35	4873.59	4968.01
<b>65.0</b>	3809.75	3865.31	3967.89	4105.32	4098.13	4114.05	4192.68	4196.81	4259.53	4342.35
<b>67.5</b>	3152.96	3197.18	3250.37	3376.62	3426.80	3430.64	3508.61	3521.90	3599.95	3656.79
<b>70.0</b>	2492.12	2492.59	2567.02	2641.64	2717.65	2709.44	2762.13	2783.87	2885.80	2916.50
<b>72.5</b>	1872.51	1910.72	1944.68	2002.74	2131.03	2112.04	2167.72	2186.08	2271.47	2265.16
<b>75.0</b>	1336.79	1351.42	1366.05	1404.70	1474.47	1496.75	1537.76	1568.73	1623.74	1646.28
<b>77.5</b>	869.11	875.24	881.06	887.99	932.88	968.60	982.15	1017.86	1055.87	1100.98
<b>80.0</b>	481.67	500.82	493.12	496.48	517.05	543.38	543.35	589.54	603.39	645.09
<b>82.5</b>	226.03	215.71	233.02	225.02	229.60	235.39	247.57	258.56	286.91	316.50
<b>85.0</b>	97.34	95.90	84.58	86.13	70.68	73.53	73.10	72.65	86.48	115.70
<b>87.5</b>	0.00	12.33	27.66	29.04	29.02	22.70	14.76	22.73	31.98	43.56
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	13.54	0.00	0.00	0.00

**Vert.  
Angles**

**Horizontal 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>	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
<b>2.5</b>	13335.46	13334.31	13333.22	13332.19	13331.23	13330.34	13329.51	13328.76	13328.08	13327.47

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

<b>5.0</b>	13290.70	13290.04	13288.23	13286.62	13285.21	13284.01	13283.01	13282.22	13281.64	13281.28
<b>7.5</b>	13226.47	13224.15	13222.28	13220.87	13219.90	13217.23	13218.55	13218.42	13218.72	13219.45
<b>10.0</b>	13140.41	13137.81	13135.93	13134.79	13134.39	13134.73	13135.82	13137.18	13139.03	13141.54
<b>12.5</b>	13032.67	13030.68	13029.84	13026.10	13030.68	13032.59	13035.57	13039.62	13043.96	13048.97
<b>15.0</b>	12905.95	12904.48	12904.52	12906.06	12909.08	12913.05	12918.22	12924.82	12930.55	12941.32
<b>17.5</b>	12757.18	12757.02	12758.85	12762.57	12768.28	12775.97	12785.27	12796.27	12809.21	12821.91
<b>20.0</b>	12584.41	12586.10	12590.79	12598.49	12608.01	12620.00	12634.59	12649.89	12667.46	12686.32
<b>22.5</b>	12378.06	12377.93	12390.85	12402.45	12417.80	12436.05	12456.60	12481.29	12506.54	12533.90
<b>25.0</b>	12140.99	12149.03	12161.94	12179.15	12200.89	12225.61	12255.53	12288.05	12321.56	12358.35
<b>27.5</b>	11860.70	11876.67	11898.83	11928.42	11959.27	11993.17	12030.58	12070.81	12115.32	12106.60
<b>30.0</b>	11459.43	11491.14	11531.78	11579.27	11636.98	11696.65	11756.51	11826.46	11801.24	11766.25
<b>32.5</b>	10995.61	11042.98	11093.33	11154.80	11225.64	11307.39	11393.34	11380.34	11374.78	11368.44
<b>35.0</b>	10556.80	10591.52	10642.37	10706.21	10786.64	10880.90	10870.87	10869.07	10877.20	10887.14
<b>37.5</b>	10189.52	10221.95	10265.95	10319.81	10385.57	10372.57	10355.27	10352.66	10365.66	10393.24
<b>40.0</b>	9825.82	9865.13	9915.64	9977.58	9980.99	9939.73	9909.71	9892.53	9892.28	9906.17
<b>42.5</b>	9444.43	9495.01	9557.34	9601.45	9548.77	9510.83	9486.48	9474.47	9472.52	9480.18
<b>45.0</b>	9027.10	9087.96	9165.25	9141.62	9100.32	9070.79	9052.27	9048.86	9057.35	9074.80
<b>47.5</b>	8584.72	8659.33	8701.24	8653.06	8621.83	8595.63	8593.39	8611.33	8630.03	8648.70
<b>50.0</b>	8115.82	8208.50	8182.00	8130.78	8123.52	8123.06	8131.23	8160.51	8168.06	8150.58
<b>52.5</b>	7621.93	7682.14	7634.06	7610.39	7608.51	7621.92	7646.86	7661.62	7647.91	7645.27
<b>55.0</b>	7055.02	7062.74	7036.85	7034.49	7056.49	7101.96	7105.44	7100.02	7110.09	7128.46
<b>57.5</b>	6451.28	6395.80	6391.37	6420.62	6466.22	6501.23	6504.57	6517.41	6528.58	6594.35
<b>60.0</b>	5655.22	5657.77	5678.57	5741.25	5830.47	5818.51	5837.85	5904.08	5962.92	6014.57
<b>62.5</b>	4961.32	4948.19	4977.44	5039.88	5073.23	5137.16	5166.00	5228.84	5360.73	5408.88
<b>65.0</b>	4317.51	4333.53	4396.28	4395.68	4413.59	4461.44	4529.27	4574.51	4621.33	4682.50
<b>67.5</b>	3653.86	3696.62	3736.47	3756.90	3793.09	3863.58	3913.36	3897.23	3892.06	3949.95
<b>70.0</b>	2944.12	3029.23	3044.49	3092.23	3185.10	3221.04	3219.62	3213.96	3231.56	3257.40
<b>72.5</b>	2286.65	2336.92	2401.93	2449.12	2500.92	2545.67	2544.01	2542.89	2584.32	2611.77
<b>75.0</b>	1706.72	1740.94	1807.81	1851.76	1849.67	1893.85	1912.23	1902.22	1960.69	2042.09
<b>77.5</b>	1148.59	1209.82	1234.26	1266.08	1285.35	1279.11	1370.74	1405.54	1441.83	1501.71
<b>80.0</b>	697.45	736.21	750.06	744.39	806.34	867.42	910.49	944.35	962.66	986.53
<b>82.5</b>	353.41	364.48	394.09	429.31	465.14	489.00	498.24	510.83	501.88	471.92
<b>85.0</b>	138.79	167.24	176.76	178.25	170.48	148.34	112.92	61.53	0.00	0.00
<b>87.5</b>	44.48	20.63	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>	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
<b>2.5</b>	13326.94	13326.32	13325.23	13325.55	13325.20	13324.91	13324.71	13324.57	13324.50	13324.51
<b>5.0</b>	13281.12	13280.55	13281.10	13281.28	13281.65	13282.20	13282.95	13283.88	13284.30	13284.68
<b>7.5</b>	13220.60	13220.74	13223.28	13224.94	13226.95	13229.32	13231.27	13233.28	13235.60	13238.23
<b>10.0</b>	13144.70	13145.88	13151.78	13155.88	13160.55	13165.06	13169.99	13175.47	13180.30	13185.30
<b>12.5</b>	13054.91	13061.45	13068.29	13076.02	13083.86	13091.75	13100.29	13107.90	13116.71	13125.24
<b>15.0</b>	12951.18	12961.82	12972.90	12985.14	12996.60	13009.06	13021.64	13035.07	13047.43	13060.11
<b>17.5</b>	12835.46	12850.16	12865.95	12882.71	12899.92	12917.65	12935.87	12953.29	12968.51	12989.02
<b>20.0</b>	12706.03	12727.54	12750.91	12772.95	12794.68	12816.30	12793.62	12773.68	12755.88	12739.99
<b>22.5</b>	12561.70	12590.96	12620.86	12598.94	12572.53	12549.17	12526.38	12506.85	12490.57	12476.93
<b>25.0</b>	12396.40	12367.83	12340.61	12314.66	12291.92	12271.11	12252.31	12231.72	12220.51	12208.67
<b>27.5</b>	12082.94	12056.03	12033.08	12006.70	11997.94	11982.65	11969.56	11957.42	11946.37	11936.62
<b>30.0</b>	11746.33	11726.58	11710.76	11698.06	11687.92	11680.52	11675.72	11670.96	11666.54	11661.83
<b>32.5</b>	11376.11	11372.56	11370.00	11367.83	11366.96	11367.78	11369.86	11374.90	11376.43	11382.09
<b>35.0</b>	10924.33	10958.37	10990.73	11014.75	11026.61	11044.15	11056.46	11068.58	11082.63	11073.04
<b>37.5</b>	10415.14	10483.40	10539.71	10605.37	10661.73	10705.74	10715.70	10707.44	10701.21	10697.64
<b>40.0</b>	9940.47	9993.68	10063.56	10144.48	10210.79	10249.68	10275.14	10291.27	10304.02	10311.67

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**CANDELA TABULATION - (Cont.)**

42.5	9498.64	9531.11	9576.47	9616.82	9669.15	9729.80	9791.95	9842.99	9885.26	9917.99
45.0	9099.50	9086.48	9081.18	9107.24	9150.63	9206.91	9279.53	9361.30	9430.03	9504.33
47.5	8632.19	8624.26	8624.65	8625.52	8667.92	8713.64	8771.78	8859.70	8963.12	9065.39
50.0	8146.85	8152.76	8158.37	8185.88	8212.48	8252.76	8296.56	8362.45	8473.83	8589.28
52.5	7652.51	7672.37	7694.79	7734.41	7771.92	7813.15	7848.49	7831.89	7858.77	7921.22
55.0	7153.03	7185.45	7228.08	7276.76	7310.79	7277.20	7249.19	7219.72	7227.77	7273.38
57.5	6645.27	6695.41	6734.61	6700.62	6676.86	6658.45	6639.31	6626.51	6612.47	6638.28
60.0	6123.95	6095.19	6067.25	6046.98	6039.18	6036.04	6028.93	6024.20	6024.56	6035.80
62.5	5394.90	5385.17	5383.09	5391.95	5396.17	5410.57	5420.21	5422.54	5432.14	5441.93
65.0	4666.50	4669.21	4673.86	4718.37	4750.13	4781.38	4809.14	4822.74	4833.79	4838.20
67.5	3981.80	3976.00	3975.39	4027.73	4108.26	4145.75	4179.34	4191.57	4195.49	4205.53
70.0	3300.25	3304.05	3308.01	3362.44	3461.31	3504.20	3540.27	3559.65	3563.56	3573.72
72.5	2661.28	2698.22	2712.59	2741.43	2820.44	2875.63	2908.79	2930.94	2937.09	2944.72
75.0	2082.58	2123.47	2144.17	2158.14	2199.28	2258.94	2286.62	2308.30	2314.94	2319.93
77.5	1537.92	1562.62	1581.86	1590.75	1605.34	1646.68	1673.41	1690.09	1696.87	1660.87
80.0	1009.65	1022.62	1027.66	1008.32	953.79	904.54	854.77	786.79	711.08	630.65
82.5	431.64	375.66	302.71	219.93	128.55	32.05	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	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13324.59	13324.74	13324.96	13324.88	13324.80	13324.65	13324.57	13324.54	13324.59	13324.69
5.0	13285.22	13285.92	13286.78	13286.85	13288.28	13289.11	13290.08	13291.18	13290.73	13291.37
7.5	13240.47	13242.91	13245.61	13247.94	13249.76	13251.81	13253.39	13255.49	13257.28	13259.06
10.0	13190.31	13195.03	13199.78	13204.30	13208.49	13212.89	13216.11	13219.55	13222.35	13223.81
12.5	13134.17	13142.50	13150.35	13157.78	13164.74	13171.17	13177.08	13182.25	13187.05	13190.69
15.0	13071.89	13084.03	13096.44	13107.92	13118.52	13127.80	13136.67	13144.07	13150.62	13156.19
17.5	12983.44	12969.97	12958.28	12948.99	12939.99	12935.41	12929.95	12925.81	12922.70	12920.86
20.0	12726.13	12714.92	12704.45	12695.51	12688.73	12682.35	12680.72	12677.70	12675.33	12674.29
22.5	12465.88	12455.20	12446.98	12440.25	12434.71	12431.07	12429.41	12428.49	12427.95	12427.68
25.0	12199.46	12192.83	12186.90	12182.42	12179.34	12177.26	12177.06	12178.31	12179.76	12180.69
27.5	11929.79	11925.80	11924.29	11922.90	11922.26	11922.46	11924.13	11927.04	11930.81	11933.51
30.0	11657.44	11656.29	11657.81	11661.70	11663.94	11666.65	11670.61	11675.31	11681.58	11686.42
32.5	11383.61	11384.69	11389.43	11379.64	11372.07	11364.74	11360.00	11357.08	11357.56	11358.01
35.0	11061.88	11047.85	11036.63	11028.68	11024.26	11019.12	11018.05	11017.73	11019.36	11021.73
37.5	10693.20	10688.37	10677.55	10677.20	10675.31	10675.35	10675.98	10677.52	10680.76	10686.34
40.0	10317.74	10321.38	10324.63	10324.74	10325.86	10328.71	10333.03	10337.26	10342.42	10351.78
42.5	9935.84	9950.36	9961.44	9970.33	9976.18	9981.56	9989.83	9996.38	10004.23	10017.09
45.0	9549.24	9574.69	9594.61	9613.48	9625.98	9634.71	9644.76	9655.66	9666.01	9679.64
47.5	9148.65	9188.03	9225.47	9231.07	9209.69	9185.75	9165.33	9151.28	9140.12	9135.98
50.0	8643.00	8656.23	8646.74	8640.05	8630.18	8613.35	8597.43	8585.07	8574.75	8570.41
52.5	7978.65	8013.31	8027.10	8040.96	8046.80	8039.33	8029.45	8019.49	8007.99	8004.36
55.0	7324.15	7364.53	7398.09	7433.22	7459.66	7463.17	7460.08	7453.41	7444.56	7441.14
57.5	6680.41	6712.84	6760.17	6815.87	6868.20	6885.04	6889.30	6887.35	6879.61	6877.10
60.0	6063.66	6085.52	6119.11	6192.27	6271.01	6305.49	6316.24	6321.80	6314.91	6313.21
62.5	5457.01	5465.22	5479.52	5559.99	5646.62	5686.52	5695.63	5702.42	5695.29	5691.40
65.0	4840.06	4849.25	4859.45	4917.44	4994.39	5036.73	5047.13	5064.04	5065.61	5064.38
67.5	4220.29	4225.69	4243.20	4284.29	4346.91	4388.06	4398.26	4424.21	4435.57	4436.76
70.0	3599.11	3615.86	3634.29	3660.57	3707.36	3740.98	3749.64	3783.17	3805.18	3810.64
72.5	2974.65	3000.19	3026.29	3045.01	3074.69	3096.96	3102.86	3137.91	3174.49	3183.49
75.0	2353.04	2386.42	2419.13	2434.73	2447.39	2455.56	2457.15	2498.40	2543.58	2556.39
77.5	1627.95	1599.35	1562.38	1511.72	1458.84	1408.90	1362.86	1344.49	1336.28	1315.10

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	558.73	490.48	419.27	347.77	279.03	216.44	160.63	114.20	75.10	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>	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
<b>2.5</b>	13324.85	13325.08	13325.37	13325.53	13325.75	13326.03	13326.38	13326.78	13327.24	13327.76
<b>5.0</b>	13292.01	13292.65	13293.29	13293.50	13293.71	13293.92	13294.12	13295.77	13295.58	13295.76
<b>7.5</b>	13259.64	13260.33	13261.21	13261.54	13262.05	13262.74	13262.52	13262.40	13262.46	13261.26
<b>10.0</b>	13226.55	13227.84	13229.13	13229.34	13229.55	13228.75	13229.42	13228.36	13225.97	13223.87
<b>12.5</b>	13194.03	13195.58	13197.05	13197.33	13197.90	13196.84	13195.42	13192.12	13188.55	13184.45
<b>15.0</b>	13159.81	13163.02	13164.97	13164.98	13164.13	13163.84	13159.87	13155.27	13149.77	13143.32
<b>17.5</b>	12919.92	12919.88	12920.61	12921.96	12925.03	12929.03	12933.23	12938.25	12945.00	12953.34
<b>20.0</b>	12667.72	12673.68	12676.24	12675.83	12673.69	12683.35	12686.68	12691.44	12699.12	12704.57
<b>22.5</b>	12428.40	12430.78	12431.88	12433.06	12436.02	12437.57	12439.99	12443.63	12448.19	12452.90
<b>25.0</b>	12174.96	12184.08	12187.51	12186.53	12182.61	12191.20	12192.54	12194.80	12197.39	12199.71
<b>27.5</b>	11936.81	11941.07	11943.15	11943.65	11944.98	11944.36	11944.40	11945.14	11945.10	11945.37
<b>30.0</b>	11681.24	11693.66	11698.78	11696.57	11689.89	11697.45	11697.45	11694.49	11691.54	11689.26
<b>32.5</b>	11357.27	11360.28	11362.59	11363.59	11365.67	11367.84	11370.61	11374.53	11379.82	11386.55
<b>35.0</b>	11020.93	11020.33	11026.40	11023.93	11028.89	11029.25	11031.13	11032.91	11035.72	11041.29
<b>37.5</b>	10684.84	10687.31	10690.21	10691.11	10692.54	10691.12	10692.60	10690.72	10693.36	10693.95
<b>40.0</b>	10348.95	10347.28	10354.02	10351.17	10354.67	10353.12	10350.35	10348.78	10346.65	10345.31
<b>42.5</b>	10013.39	10014.50	10017.83	10018.40	10017.27	10015.97	10009.68	10005.47	10003.76	9995.52
<b>45.0</b>	9678.12	9674.49	9681.64	9678.30	9679.83	9675.78	9670.16	9662.26	9654.04	9644.83
<b>47.5</b>	9126.57	9120.05	9121.59	9124.84	9129.44	9136.32	9145.72	9158.99	9174.40	9193.75
<b>50.0</b>	8564.85	8552.97	8561.54	8559.31	8569.42	8575.20	8583.56	8594.99	8607.73	8623.99
<b>52.5</b>	8002.58	7998.96	8001.49	8005.85	8009.50	8014.29	8021.35	8031.12	8041.11	8054.41
<b>55.0</b>	7440.49	7432.83	7441.44	7440.79	7450.48	7453.29	7458.65	7466.32	7473.77	7484.65
<b>57.5</b>	6877.80	6878.06	6881.38	6886.76	6889.44	6892.32	6895.90	6901.28	6906.23	6914.83
<b>60.0</b>	6293.60	6312.21	6321.33	6321.93	6308.24	6331.47	6333.34	6336.55	6338.95	6348.49
<b>62.5</b>	5689.59	5691.15	5694.56	5700.36	5703.96	5708.91	5714.95	5719.36	5718.50	5723.98
<b>65.0</b>	5041.04	5058.93	5067.79	5067.61	5055.14	5080.80	5087.66	5078.99	5069.68	5069.15
<b>67.5</b>	4434.47	4437.20	4441.02	4445.34	4448.32	4452.88	4457.90	4438.44	4420.06	4415.27
<b>70.0</b>	3789.45	3805.84	3814.25	3813.44	3803.03	3825.45	3829.02	3796.11	3771.83	3763.41
<b>72.5</b>	3179.64	3183.28	3187.48	3190.33	3192.99	3197.30	3200.05	3152.36	3121.28	3116.33
<b>75.0</b>	2538.64	2552.91	2560.71	2559.39	2551.74	2569.76	2571.02	2510.74	2472.76	2473.30
<b>77.5</b>	1292.64	1282.27	1280.36	1285.57	1299.37	1322.32	1351.19	1349.54	1371.83	1420.70
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	75.94	114.62	161.71	218.16
<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>	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
<b>2.5</b>	13328.34	13328.97	13329.59	13329.76	13330.16	13330.62	13331.13	13331.71	13332.34	13333.03
<b>5.0</b>	13296.05	13296.48	13296.37	13295.89	13295.56	13295.38	13295.34	13295.81	13295.29	13295.37
<b>7.5</b>	13259.89	13258.73	13257.42	13256.03	13254.89	13254.23	13252.01	13250.39	13249.04	13248.90
<b>10.0</b>	13221.00	13218.44	13215.35	13211.85	13208.68	13204.56	13200.77	13198.68	13192.49	13188.39
<b>12.5</b>	13179.89	13174.78	13169.08	13162.87	13156.14	13148.71	13141.41	13133.44	13126.80	13119.16

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**CANDELA TABULATION - (Cont.)**

15.0	13138.01	13127.97	13118.65	13108.46	13097.29	13086.36	13074.44	13065.34	13051.54	13043.15
17.5	12962.64	12972.24	12983.37	12996.12	13009.90	13016.98	13001.21	12985.22	12969.33	12952.34
20.0	12711.65	12719.90	12729.67	12744.14	12754.95	12770.97	12788.63	12808.55	12828.81	12852.11
22.5	12458.24	12464.82	12473.19	12483.91	12498.25	12509.90	12524.87	12541.96	12562.11	12586.66
25.0	12202.99	12207.78	12214.85	12223.49	12232.21	12242.75	12256.77	12271.96	12290.19	12310.77
27.5	11948.97	11949.46	11953.99	11957.94	11963.38	11971.29	11981.75	11994.40	12008.92	12023.73
30.0	11688.63	11690.99	11689.02	11689.19	11691.61	11695.61	11702.87	11709.24	11716.85	11727.78
32.5	11397.10	11408.86	11421.27	11418.23	11415.69	11417.44	11415.93	11422.66	11420.12	11425.52
35.0	11048.12	11055.24	11066.70	11076.76	11093.77	11110.33	11124.82	11120.24	11116.54	11106.35
37.5	10697.94	10700.14	10705.77	10713.56	10724.12	10741.05	10746.33	10759.98	10774.91	10730.88
40.0	10343.84	10343.22	10343.39	10347.45	10349.92	10348.52	10337.52	10323.98	10277.99	10224.94
42.5	9989.60	9984.31	9979.64	9976.64	9967.07	9936.98	9890.09	9827.19	9753.51	9689.27
45.0	9634.46	9623.06	9613.49	9605.26	9563.22	9491.87	9406.41	9311.99	9239.03	9177.28
47.5	9215.52	9240.23	9245.78	9214.82	9130.13	9016.21	8903.07	8805.52	8745.28	8703.34
50.0	8642.38	8656.78	8665.47	8654.47	8594.16	8515.77	8406.52	8328.83	8292.13	8260.09
52.5	8065.18	8054.84	8037.90	7996.73	7932.09	7860.89	7824.68	7832.13	7855.05	7824.67
55.0	7481.53	7443.09	7398.46	7344.95	7291.41	7235.81	7223.53	7243.32	7267.21	7295.29
57.5	6889.38	6821.24	6754.82	6709.48	6668.66	6637.54	6640.67	6654.57	6669.98	6691.28
60.0	6287.50	6189.42	6116.79	6091.87	6067.70	6055.32	6059.74	6065.93	6073.55	6086.14
62.5	5655.58	5549.83	5489.31	5489.97	5484.07	5480.82	5479.90	5478.50	5478.90	5477.38
65.0	5004.68	4915.46	4879.78	4881.13	4882.64	4885.96	4893.60	4892.48	4883.73	4866.82
67.5	4355.82	4292.23	4273.16	4263.50	4263.62	4252.64	4254.97	4259.67	4259.08	4243.41
70.0	3720.31	3680.71	3667.69	3659.51	3644.78	3618.78	3620.00	3622.60	3614.31	3592.35
72.5	3093.98	3070.15	3063.92	3049.25	3017.30	2986.80	2989.32	2988.04	2976.30	2951.09
75.0	2471.04	2466.95	2464.55	2439.31	2392.53	2358.81	2362.14	2358.76	2345.16	2313.70
77.5	1476.28	1537.65	1597.18	1643.50	1659.65	1694.74	1740.79	1730.61	1721.94	1686.40
80.0	282.49	353.59	429.09	504.47	569.38	644.73	728.73	806.17	881.38	931.05
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.17
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>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	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13333.77	13334.57	13335.42	13336.32	13337.41	13337.62	13338.33	13339.10	13339.94	13340.84
5.0	13295.62	13296.04	13296.62	13297.36	13299.27	13298.21	13298.82	13299.63	13300.63	13301.81
7.5	13246.20	13244.94	13244.01	13243.41	13242.48	13241.66	13241.24	13241.19	13241.54	13242.27
10.0	13186.03	13180.80	13177.52	13174.82	13172.10	13169.75	13168.03	13166.96	13168.11	13165.92
12.5	13112.27	13105.60	13099.14	13093.51	13087.98	13082.93	13078.76	13077.99	13072.03	13069.86
15.0	13029.49	13019.33	13008.19	12998.26	12988.78	12980.11	12972.73	12965.47	12959.44	12954.85
17.5	12935.82	12919.87	12903.93	12888.71	12874.88	12862.40	12856.06	12840.08	12830.88	12822.80
20.0	12831.19	12810.43	12790.27	12770.00	12750.06	12730.79	12712.73	12696.00	12685.18	12668.12
22.5	12612.43	12640.58	12665.55	12635.00	12606.90	12579.80	12555.08	12533.05	12511.84	12494.99
25.0	12333.14	12357.74	12384.18	12414.96	12447.57	12414.39	12382.88	12355.67	12326.74	12303.01
27.5	12044.85	12062.45	12087.11	12115.90	12148.60	12185.05	12192.59	12149.54	12101.93	12054.40
30.0	11741.71	11758.74	11776.63	11794.29	11812.35	11827.80	11839.72	11850.01	11772.68	11690.90
32.5	11430.61	11429.08	11419.85	11404.64	11386.30	11371.77	11355.49	11350.77	11359.45	11274.64
35.0	11077.48	11039.83	10996.40	10951.80	10898.93	10860.25	10843.68	10834.12	10834.26	10847.70
37.5	10657.34	10580.30	10508.07	10441.79	10398.43	10370.09	10353.39	10354.44	10371.09	10403.78
40.0	10178.18	10105.52	10025.88	9978.75	9945.55	9931.93	9932.12	9946.31	9971.49	10006.44
42.5	9632.74	9589.83	9582.81	9566.33	9551.24	9541.30	9540.20	9547.35	9562.90	9589.73
45.0	9133.64	9118.72	9123.38	9146.56	9169.57	9149.88	9137.42	9134.48	9143.20	9160.96
47.5	8678.26	8668.82	8673.33	8684.92	8704.50	8735.02	8726.71	8711.69	8705.92	8712.38
50.0	8235.06	8221.85	8215.43	8213.72	8222.76	8243.50	8274.24	8274.13	8255.02	8256.84

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**CANDELA TABULATION - (Cont.)**

52.5	7794.04	7769.87	7742.51	7735.68	7732.50	7739.34	7756.33	7786.59	7791.50	7766.60
55.0	7332.48	7310.41	7275.03	7250.31	7233.48	7223.15	7221.87	7234.69	7264.89	7260.67
57.5	6716.33	6743.71	6782.95	6760.83	6724.19	6690.54	6666.91	6652.45	6652.46	6678.36
60.0	6095.83	6107.76	6132.30	6164.62	6199.72	6140.20	6081.57	6023.76	5980.49	5990.33
62.5	5470.69	5466.87	5456.72	5460.29	5493.60	5514.51	5449.18	5331.32	5295.45	5300.29
65.0	4839.63	4805.77	4757.15	4761.29	4779.61	4773.14	4703.14	4661.50	4648.85	4599.19
67.5	4204.16	4121.11	4063.11	4074.41	4081.74	4044.66	3987.08	4005.96	4026.07	3990.27
70.0	3541.07	3444.84	3400.16	3402.16	3403.59	3364.09	3338.84	3318.60	3338.97	3345.02
72.5	2891.19	2818.43	2804.28	2790.06	2770.40	2728.32	2680.88	2662.13	2672.40	2673.39
75.0	2273.21	2231.60	2224.77	2206.63	2179.33	2145.01	2058.36	2037.05	2054.60	2012.85
77.5	1667.63	1661.89	1651.46	1633.27	1621.35	1579.26	1534.29	1514.50	1491.84	1411.34
80.0	1001.33	1067.32	1081.66	1079.82	1078.60	1044.35	1037.21	1024.68	1008.60	970.96
82.5	135.23	233.30	318.23	398.90	466.62	510.53	551.43	564.29	562.86	562.04
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.37	129.49	173.31
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	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13341.80	13342.83	13343.91	13345.05	13346.24	13347.49	13348.79	13350.13	13351.52	13347.24
5.0	13303.18	13304.74	13306.47	13308.38	13310.47	13312.72	13315.15	13317.73	13320.48	13311.97
7.5	13244.47	13244.67	13246.43	13248.60	13251.18	13254.14	13257.50	13261.23	13265.32	13252.58
10.0	13166.19	13167.15	13168.79	13171.11	13174.11	13177.76	13182.07	13187.03	13192.61	13175.50
12.5	13068.73	13068.64	13072.27	13070.88	13073.51	13077.23	13082.02	13087.89	13094.81	13073.54
15.0	12955.34	12949.31	12948.54	12949.22	12951.39	12955.04	12960.18	12966.83	12974.97	12949.51
17.5	12815.77	12810.75	12807.77	12811.06	12806.93	12809.55	12814.36	12821.37	12830.57	12800.95
20.0	12657.66	12652.45	12644.05	12641.05	12640.84	12643.44	12648.82	12656.97	12667.85	12633.75
22.5	12485.95	12467.89	12458.97	12453.48	12450.81	12451.57	12456.05	12464.23	12476.11	12438.11
25.0	12280.93	12263.10	12257.74	12232.90	12223.91	12220.66	12223.06	12231.04	12244.48	12199.51
27.5	12007.71	11966.23	11928.39	11899.24	11886.09	11860.98	11854.45	11858.03	11871.68	11820.83
30.0	11622.56	11556.09	11504.21	11463.03	11432.73	11413.42	11405.25	11408.31	11422.67	11367.21
32.5	11190.34	11115.01	11055.52	11009.76	10975.77	10956.32	10948.87	10952.89	10968.50	10913.49
35.0	10768.59	10703.04	10653.75	10622.03	10592.46	10579.26	10575.69	10581.89	10598.01	10543.24
37.5	10434.21	10378.04	10334.14	10293.52	10265.83	10248.73	10242.78	10248.57	10266.02	10207.37
40.0	10051.74	10051.16	9994.14	9949.28	9916.38	9895.81	9888.09	9893.43	9911.99	9849.31
42.5	9629.81	9683.51	9642.02	9588.29	9548.51	9531.84	9513.99	9520.06	9541.67	9472.97
45.0	9191.03	9235.12	9277.42	9201.22	9153.44	9121.72	9107.52	9111.82	9134.05	9060.99
47.5	8732.56	8768.28	8821.04	8798.04	8731.65	8691.79	8671.04	8671.60	8693.77	8617.32
50.0	8264.11	8280.35	8321.80	8356.58	8288.46	8238.43	8212.35	8210.74	8233.59	8151.45
52.5	7757.34	7768.27	7804.83	7852.40	7804.44	7741.11	7704.93	7698.52	7723.58	7630.34
55.0	7228.28	7214.80	7222.51	7255.07	7252.78	7167.19	7115.45	7100.83	7125.02	7026.88
57.5	6660.05	6616.46	6584.92	6584.68	6634.71	6540.07	6467.22	6434.06	6456.27	6329.70
60.0	6021.55	5932.78	5860.86	5836.18	5836.66	5770.88	5690.39	5656.82	5674.10	5591.15
62.5	5241.84	5215.46	5171.85	5141.98	5157.71	5179.24	5128.23	5079.09	5099.74	5007.04
65.0	4566.43	4575.52	4613.41	4545.78	4533.68	4569.45	4489.83	4447.36	4467.32	4368.63
67.5	3942.25	3930.42	3930.13	3904.25	3859.40	3860.81	3831.95	3755.25	3761.28	3650.23
70.0	3322.05	3232.74	3233.18	3209.25	3151.63	3130.65	3123.74	3069.13	3083.42	3008.68
72.5	2610.33	2602.64	2564.28	2557.86	2575.59	2535.84	2551.95	2484.49	2490.49	2395.92
75.0	1988.81	1999.78	1987.87	1937.47	1939.08	1896.37	1875.49	1843.50	1844.29	1767.29
77.5	1422.12	1410.72	1378.17	1373.30	1332.42	1328.22	1277.33	1247.13	1242.40	1188.49
80.0	925.50	882.39	877.70	845.35	820.68	811.02	801.46	779.33	777.36	723.64
82.5	543.41	523.76	485.49	442.92	437.67	420.03	404.71	406.47	375.42	368.58
85.0	204.03	215.25	216.40	204.18	179.91	161.99	143.17	135.45	137.54	120.95
87.5	0.00	0.00	0.00	23.13	53.00	57.90	45.65	35.81	30.52	34.04

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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 21.67 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	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13343.01	13338.84	13334.73	13330.70	13326.75	13322.89	13319.12	13315.46	13311.90	13308.47
5.0	13303.64	13295.49	13287.53	13279.80	13272.30	13265.03	13258.03	13251.30	13244.85	13238.69
7.5	13240.21	13228.25	13216.73	13205.67	13195.08	13185.00	13176.58	13166.31	13157.62	13149.47
10.0	13159.04	13143.26	13128.20	13113.89	13100.36	13087.62	13075.71	13064.66	13056.23	13044.75
12.5	13053.34	13034.28	13016.37	12999.66	12987.08	12969.64	12956.03	12943.64	12932.48	12925.25
15.0	12925.59	12903.25	12882.54	12863.49	12846.13	12830.48	12820.41	12803.89	12792.67	12783.19
17.5	12773.57	12748.47	12725.69	12709.81	12686.74	12670.17	12655.90	12643.97	12633.72	12625.30
20.0	12602.42	12573.94	12548.37	12525.76	12506.16	12492.15	12475.15	12463.59	12458.80	12448.87
22.5	12403.85	12373.38	12346.77	12323.82	12304.15	12288.29	12282.06	12266.60	12260.03	12256.42
25.0	12160.26	12127.10	12100.38	12080.41	12078.17	12056.54	12049.58	12048.43	12045.45	12048.11
27.5	11779.97	11749.07	11736.30	11714.07	11709.60	11715.59	11731.28	11746.49	11769.07	11794.48
30.0	11323.27	11291.00	11270.51	11261.85	11264.79	11278.72	11308.11	11335.02	11375.73	11427.67
32.5	10869.64	10836.36	10813.94	10805.40	10807.31	10820.73	10846.61	10885.23	10942.79	10871.24
35.0	10498.46	10463.64	10438.70	10430.39	10419.59	10423.03	10438.83	10464.20	10384.06	10314.61
37.5	10160.27	10124.66	10100.55	10088.00	10089.04	10092.74	10109.13	10018.49	9913.53	9823.62
40.0	9800.13	9764.58	9742.71	9733.71	9736.04	9749.88	9688.82	9574.06	9471.31	9379.26
42.5	9419.74	9390.12	9360.46	9354.60	9363.09	9353.22	9226.69	9113.69	9012.60	8923.63
45.0	9006.28	8969.95	8951.89	8951.79	8982.54	8864.68	8740.13	8632.38	8537.90	8456.57
47.5	8562.33	8528.43	8514.54	8527.65	8489.86	8354.52	8236.65	8136.52	8046.73	7973.37
50.0	8094.23	8062.34	8055.75	8071.02	7953.03	7821.44	7719.37	7629.07	7543.32	7479.56
52.5	7570.53	7543.72	7547.32	7527.48	7380.75	7250.01	7155.27	7082.48	7023.97	6952.09
55.0	6966.73	6942.15	6952.27	6846.21	6717.33	6626.43	6549.90	6493.36	6434.55	6348.96
57.5	6253.63	6230.64	6266.44	6127.92	5984.55	5876.98	5857.11	5850.83	5778.11	5709.02
60.0	5551.32	5543.51	5479.67	5357.34	5279.67	5197.77	5105.95	5098.04	5117.25	5079.57
62.5	4984.66	4972.14	4852.40	4722.74	4633.43	4581.06	4493.31	4446.19	4438.08	4450.59
65.0	4343.89	4364.80	4174.53	4070.80	4028.16	3931.78	3852.36	3825.21	3831.84	3849.09
67.5	3598.81	3567.30	3460.28	3358.74	3323.84	3296.73	3240.58	3187.46	3201.11	3179.72
70.0	3000.11	2901.14	2816.97	2750.21	2664.36	2656.66	2660.36	2595.73	2527.03	2506.77
72.5	2383.41	2270.49	2180.93	2151.13	2096.70	2054.38	2055.09	1996.07	1927.84	1882.40
75.0	1727.37	1643.05	1611.23	1538.80	1522.42	1506.03	1452.44	1419.47	1356.53	1313.03
77.5	1141.43	1098.89	1055.29	1019.00	1003.17	982.43	942.79	875.20	886.23	897.00
80.0	683.69	652.32	610.95	607.49	577.84	527.83	548.05	555.12	551.13	536.75
82.5	331.43	309.82	299.84	273.05	279.15	289.45	286.55	272.24	242.64	203.31
85.0	107.02	110.52	109.41	119.00	116.77	97.87	70.62	56.48	40.23	20.59
87.5	37.00	41.11	34.91	14.08	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	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13305.15	13301.97	13299.33	13295.91	13292.75	13289.73	13286.84	13284.09	13281.50	13279.05
5.0	13232.84	13227.31	13223.60	13217.04	13211.77	13206.82	13202.20	13197.91	13193.97	13190.80
7.5	13141.87	13134.84	13128.38	13122.30	13116.25	13114.05	13105.94	13102.83	13097.32	13093.30
10.0	13037.26	13027.65	13020.48	13013.93	13007.57	13002.11	12998.91	12993.16	12989.46	12988.16
12.5	12913.44	12905.33	12898.46	12892.37	12886.63	12882.11	12878.36	12875.44	12873.74	12871.54
15.0	12775.27	12767.93	12762.27	12757.67	12753.64	12751.20	12749.01	12750.84	12747.64	12750.25
17.5	12624.34	12613.99	12610.47	12608.50	12607.88	12608.58	12610.02	12612.16	12614.87	12618.06
20.0	12445.35	12443.65	12443.66	12445.59	12449.34	12453.64	12459.27	12466.62	12415.97	12372.61
22.5	12255.36	12257.31	12261.72	12268.41	12280.09	12224.59	12167.83	12115.68	12065.50	12020.07

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**CANDELA TABULATION - (Cont.)**

25.0	12050.87	12058.33	12066.59	11996.17	11929.22	11867.21	11809.45	11755.97	11706.75	11661.91
27.5	11817.76	11779.34	11698.46	11626.97	11561.64	11498.38	11444.70	11388.21	11339.81	11295.24
30.0	11375.36	11321.63	11266.91	11213.88	11161.02	11110.33	11062.53	11011.19	10965.03	10922.70
32.5	10817.05	10771.71	10754.05	10718.01	10693.26	10671.53	10645.76	10619.37	10582.16	10549.62
35.0	10256.74	10213.65	10186.58	10173.04	10173.89	10168.80	10169.51	10177.89	10173.93	10156.86
37.5	9751.75	9695.42	9647.55	9622.86	9608.01	9618.65	9646.71	9675.58	9710.66	9703.24
40.0	9298.44	9228.64	9173.99	9128.05	9090.97	9080.14	9100.34	9129.06	9152.65	9187.30
42.5	8848.23	8782.49	8726.49	8680.10	8633.91	8588.01	8574.13	8589.13	8629.49	8643.25
45.0	8385.42	8325.74	8277.41	8222.26	8173.67	8132.32	8098.82	8091.02	8109.81	8129.20
47.5	7911.27	7855.81	7794.97	7745.62	7712.19	7673.31	7646.42	7627.42	7626.63	7639.20
50.0	7414.78	7352.43	7303.03	7261.15	7230.51	7207.95	7190.80	7178.19	7172.45	7175.22
52.5	6879.30	6826.36	6795.72	6772.47	6749.04	6736.71	6731.13	6727.85	6728.72	6664.83
55.0	6305.75	6280.12	6261.52	6265.10	6264.62	6261.18	6245.00	6169.85	6103.20	6045.25
57.5	5659.26	5681.54	5711.62	5729.55	5748.72	5658.17	5569.56	5509.65	5471.06	5419.80
60.0	5029.15	5009.75	5109.28	5093.31	5036.31	4974.15	4893.98	4829.98	4821.75	4792.49
62.5	4427.40	4366.62	4332.34	4370.67	4333.23	4282.18	4221.72	4153.26	4144.60	4164.14
65.0	3783.89	3710.23	3633.15	3629.02	3643.17	3596.38	3545.19	3486.64	3457.92	3519.59
67.5	3129.77	3065.82	2991.84	2934.98	2956.76	2920.47	2869.41	2847.17	2830.76	2892.93
70.0	2469.56	2435.82	2367.49	2296.12	2288.53	2318.39	2309.57	2292.99	2267.65	2286.88
72.5	1831.75	1804.72	1801.13	1777.15	1762.82	1785.69	1773.07	1748.42	1718.30	1708.93
75.0	1311.18	1316.26	1334.17	1306.91	1274.26	1270.19	1249.42	1220.34	1176.69	1149.95
77.5	904.81	885.24	881.77	846.51	805.11	775.91	734.24	692.52	642.33	602.63
80.0	520.47	484.75	446.10	398.57	347.85	315.77	301.14	285.56	265.17	246.97
82.5	165.18	152.43	135.72	116.67	94.86	68.16	40.72	10.17	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	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13276.76	13274.64	13272.68	13270.89	13269.44	13267.65	13265.97	13264.47	13263.14	13261.99
5.0	13186.87	13183.64	13180.76	13178.24	13176.09	13173.82	13171.31	13169.16	13167.37	13166.19
7.5	13089.86	13087.33	13083.37	13080.19	13077.58	13075.23	13073.08	13071.48	13070.11	13068.00
10.0	12983.70	12981.43	12979.93	12977.66	12976.17	12974.52	12972.59	12971.40	12969.95	12969.25
12.5	12870.51	12869.49	12869.07	12869.03	12869.51	12869.82	12869.89	12869.64	12869.15	12868.76
15.0	12749.42	12752.03	12753.73	12756.24	12758.20	12760.78	12765.66	12765.68	12767.29	12767.88
17.5	12622.31	12626.44	12604.46	12575.59	12548.14	12523.37	12501.55	12483.11	12466.21	12451.57
20.0	12329.73	12291.27	12256.30	12227.12	12196.90	12172.02	12149.56	12129.97	12115.64	12099.34
22.5	11978.61	11940.23	11905.80	11871.89	11842.46	11817.55	11795.57	11775.74	11759.21	11745.88
25.0	11620.95	11582.38	11547.74	11515.90	11486.83	11460.82	11439.51	11420.44	11403.85	11391.12
27.5	11254.97	11217.90	11185.29	11155.67	11128.41	11103.43	11083.73	11064.45	11047.90	11035.21
30.0	10884.23	10849.39	10818.03	10790.96	10766.49	10745.29	10722.97	10705.40	10691.19	10678.97
32.5	10508.45	10476.42	10447.60	10422.10	10401.75	10375.44	10351.71	10330.26	10314.32	10298.68
35.0	10127.12	10090.95	10058.12	10028.20	10002.74	9979.75	9959.06	9940.20	9924.14	9910.93
37.5	9687.26	9671.41	9645.90	9624.50	9601.39	9581.17	9565.04	9548.39	9535.97	9522.68
40.0	9200.79	9208.64	9214.57	9214.44	9198.95	9181.19	9167.88	9155.59	9143.76	9134.41
42.5	8681.04	8722.39	8754.60	8786.84	8793.90	8781.23	8769.80	8760.98	8754.74	8744.96
45.0	8152.86	8204.75	8271.01	8342.28	8378.33	8379.60	8370.88	8365.67	8360.77	8355.94
47.5	7652.13	7684.93	7761.18	7855.61	7945.07	7952.71	7903.75	7866.42	7832.56	7801.40
50.0	7181.69	7174.07	7187.26	7239.91	7286.80	7295.31	7260.70	7239.81	7213.61	7183.68
52.5	6609.88	6551.33	6533.26	6563.57	6601.47	6617.49	6607.49	6606.18	6595.15	6566.12
55.0	5991.48	5938.92	5902.52	5907.16	5931.56	5944.63	5946.23	5964.62	5973.91	5948.54
57.5	5375.61	5329.43	5288.32	5271.34	5277.46	5278.94	5279.35	5314.73	5349.48	5331.22
60.0	4759.39	4719.77	4680.75	4652.35	4637.06	4621.52	4610.35	4665.42	4723.55	4714.25

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**CANDELA TABULATION - (Cont.)**

62.5	4138.52	4111.41	4075.76	4044.19	4012.80	3983.55	3964.17	4011.91	4081.05	4081.58
65.0	3517.34	3503.57	3469.53	3436.53	3406.26	3377.44	3352.88	3383.28	3437.77	3441.32
67.5	2910.75	2897.17	2863.63	2828.89	2801.84	2773.06	2745.43	2762.32	2799.75	2802.38
70.0	2313.10	2294.45	2262.19	2223.59	2198.73	2172.02	2140.83	2146.73	2168.39	2163.64
72.5	1720.77	1696.01	1662.15	1620.71	1597.14	1568.35	1537.85	1535.23	1536.47	1525.05
75.0	1135.00	1101.85	1065.81	1020.43	998.18	967.44	935.00	927.23	911.39	886.86
77.5	561.68	534.61	527.35	507.16	499.44	491.08	474.92	472.16	461.86	446.54
80.0	227.68	202.05	181.63	155.81	133.49	112.77	90.84	72.08	54.46	37.98
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	13357.45	13357.45	13357.45	13357.45	13357.45
2.5	13261.02	13260.24	13259.64	13259.23	13259.01
5.0	13164.38	13162.87	13161.73	13160.97	13160.57
7.5	13066.44	13065.35	13063.72	13062.64	13062.13
10.0	12967.95	12966.63	12965.59	12964.27	12963.68
12.5	12868.71	12867.81	12867.34	12865.85	12865.24
15.0	12768.34	12768.97	12768.15	12767.37	12766.80
17.5	12439.34	12429.35	12421.61	12416.39	12413.97
20.0	12086.76	12076.87	12069.46	12064.05	12061.14
22.5	11733.92	11724.24	11717.25	11711.74	11708.31
25.0	11380.11	11370.97	11364.46	11359.41	11355.48
27.5	11025.54	11017.16	11011.22	11006.56	11002.65
30.0	10670.91	10663.19	10657.90	10653.85	10649.82
32.5	10288.07	10280.18	10273.39	10268.60	10264.49
35.0	9900.54	9893.24	9887.72	9883.05	9879.16
37.5	9514.24	9506.65	9502.35	9497.53	9493.83
40.0	9125.38	9120.12	9115.84	9112.03	9108.51
42.5	8737.89	8734.28	8729.75	8726.54	8723.18
45.0	8351.37	8346.27	8343.69	8341.06	8337.86
47.5	7774.35	7753.22	7738.17	7727.83	7721.60
50.0	7158.33	7137.87	7122.76	7112.09	7105.35
52.5	6542.35	6522.70	6507.48	6496.35	6489.10
55.0	5925.96	5907.34	5892.73	5880.62	5872.85
57.5	5309.35	5291.87	5276.76	5264.67	5256.59
60.0	4692.70	4676.41	4661.51	4648.88	4640.34
62.5	4056.98	4042.75	4028.36	4015.19	4006.58
65.0	3418.39	3407.01	3394.59	3381.35	3372.83
67.5	2778.86	2770.92	2760.88	2747.51	2739.07
70.0	2140.16	2135.03	2127.21	2113.68	2105.31
72.5	1501.64	1497.44	1493.57	1479.85	1471.55
75.0	863.25	860.25	859.95	846.01	837.80
77.5	433.83	431.22	430.94	423.25	418.90
80.0	24.39	13.98	6.33	1.57	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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35XHTLO5K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4898.13	489.80	13.70
0-30	10423.93	1042.4	29.10
0-40	17023.44	1702.3	47.40
0-60	29851.87	2985.2	83.20
0-80	35763.00	3576.3	99.70
0-90	35881.06	3588.1	100.00
10-90	34620.82	3462.1	96.50
20-40	12125.3	1212.5	33.80
20-50	18951.63	1895.2	52.80
40-70	16967.93	1696.8	47.30
60-80	5911.14	591.10	16.50
70-80	1771.65	177.20	4.90
80-90	118.04	11.80	0.30
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	35881.06	3588.1	100.00

Total Luminaire Efficiency = 3588.1%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1260.22
10-20	3637.91
20-30	5525.8
30-40	6599.51
40-50	6826.33
50-60	6002.1
60-70	4139.5
70-80	1771.65
80-90	118.04
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

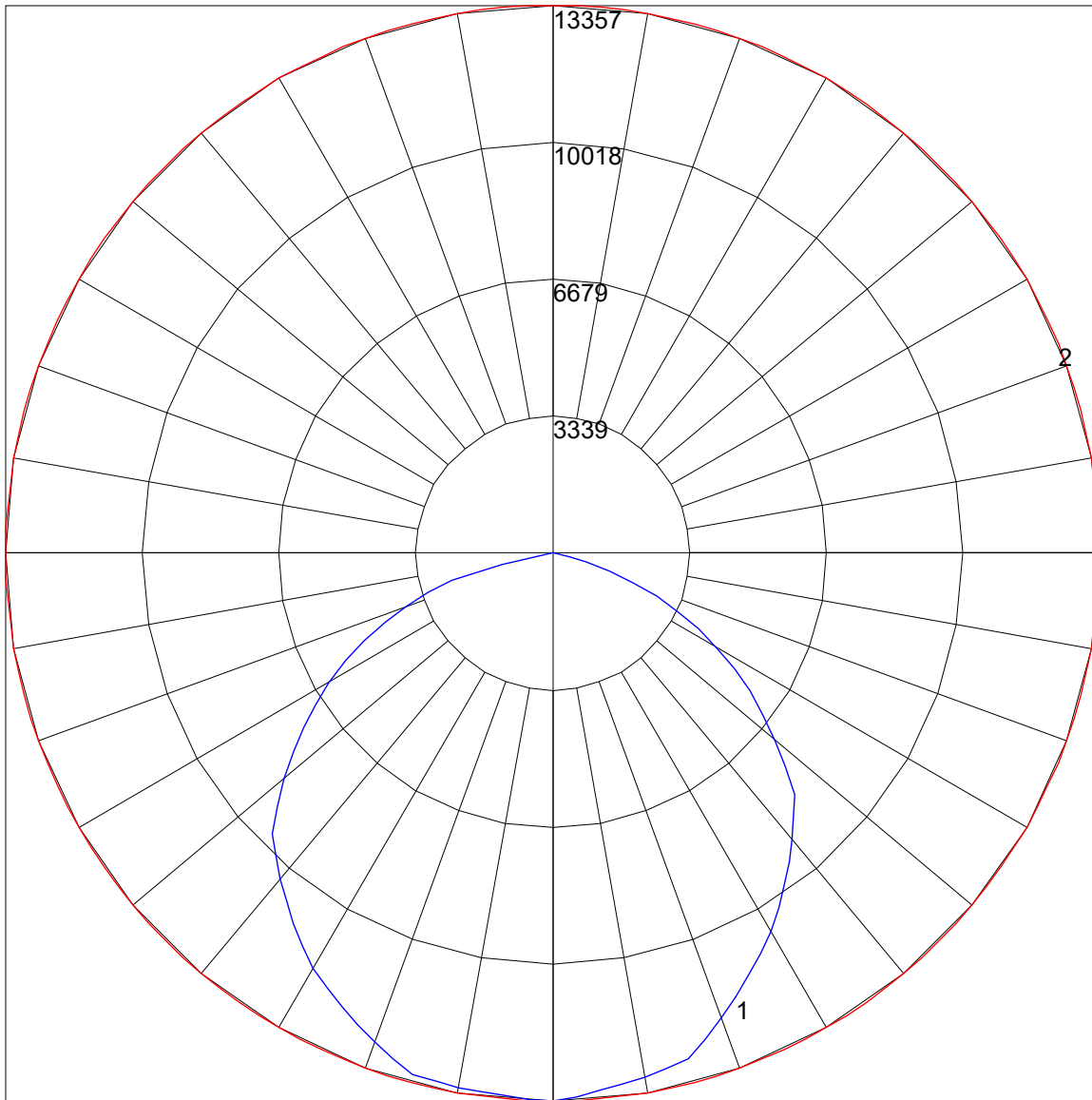
IES INDOOR REPORT  
PHOTOMETRIC FILENAME : HZCAS35XHTLO5K.IES

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	50	30	10	0
0	427	427	427	427	417	417	417	417	398	398	398	381	381	381	366	366	366	358	358	358	358
1	393	378	364	351	384	370	357	345	354	344	334	340	332	324	328	321	315	307	307	307	307
2	359	331	308	289	350	324	303	285	312	294	279	300	285	272	289	277	266	259	259	259	259
3	328	292	264	241	319	286	260	239	275	253	235	266	247	231	257	241	227	219	219	219	219
4	301	259	228	205	292	254	226	204	245	220	201	237	215	198	229	211	195	188	188	188	188
5	276	231	200	172	269	227	198	176	220	194	174	213	190	172	206	186	170	163	163	163	163
6	255	208	177	154	248	205	175	152	199	172	152	193	169	151	187	166	150	142	142	142	142
7	237	189	158	136	231	186	157	136	181	154	135	175	152	134	171	149	133	126	126	126	126
8	220	172	142	121	215	170	141	121	165	139	120	161	137	120	157	135	119	112	112	112	112
9	206	158	129	109	201	156	128	109	152	126	109	148	125	108	144	123	107	101	101	101	101
10	193	146	118	96	188	144	117	94	140	116	98	137	114	95	134	113	90	91	91	91	91

POLAR GRAPH



Maximum Candela = 13357.45 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.)