



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTHOWT50WBD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 1  
 [TESTLAB]  
 [TESTDATE] 2016-04-05  
 [ISSUEDATE] 2016-04-14 10:32:34  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [OTHER]  
 [MANUFAC] BEGHELLI  
 [LUMINAIRE] NUVHTHOWT50WBD120-277V  
 [LAMP] 5000K Ra80

### CHARACTERISTICS

Lumens Per Lamp	32120 (1 lamp)
Total Lamp Lumens	32120
Luminaire Lumens	32120
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	236.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.38 m (Diameter)
Luminous Width (90-270)	0.38 m (Diameter)
Luminous Height	0.12 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	74921	74835	74057
55	39623	39379	38140
65	18078	17955	17339
75	7641	7603	7537
85	337	386	358

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**CANDELA TABULATION**

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96
1	14792.58	14792.94	14792.69	14793.33	14792.36	14792.72	14792.89	14792.28	14792.90	14792.99
2	14788.99	14789.41	14789.04	14789.90	14788.72	14789.25	14789.07	14789.39	14789.79	14789.88
3	14782.96	14783.76	14783.23	14783.93	14783.19	14783.97	14783.53	14783.40	14783.72	14784.41
4	14774.47	14775.48	14774.76	14775.96	14775.39	14776.14	14775.94	14775.30	14775.73	14776.14
5	14763.98	14764.28	14764.64	14765.32	14764.63	14765.66	14765.20	14765.22	14765.64	14766.48
6	14750.99	14751.60	14751.54	14752.05	14751.90	14752.74	14752.56	14752.01	14753.13	14753.94
7	14735.48	14736.02	14736.19	14735.95	14736.31	14736.87	14736.82	14736.91	14737.42	14738.96
8	14717.36	14718.33	14717.98	14718.08	14718.10	14719.02	14718.95	14718.62	14719.89	14721.53
9	14697.18	14697.53	14697.08	14697.29	14697.07	14697.27	14697.98	14698.02	14700.26	14702.05
10	14673.45	14674.12	14673.81	14673.34	14673.29	14673.68	14674.29	14674.81	14677.21	14679.37
11	14646.65	14647.76	14647.10	14647.14	14647.19	14646.94	14647.84	14647.96	14650.57	14653.76
12	14617.62	14618.65	14617.99	14617.92	14618.31	14617.86	14618.71	14618.30	14621.49	14624.91
13	14585.94	14586.22	14585.45	14585.40	14585.44	14585.63	14585.71	14585.28	14588.85	14592.11
14	14550.07	14550.90	14549.47	14549.57	14549.87	14549.74	14549.87	14549.18	14552.34	14556.91
15	14510.28	14511.62	14510.76	14509.95	14510.55	14509.39	14509.79	14508.89	14512.86	14517.85
16	14466.41	14469.00	14467.46	14467.42	14466.69	14465.53	14466.43	14466.00	14469.79	14475.03
17	14418.87	14421.38	14420.09	14419.43	14419.35	14417.89	14418.68	14418.00	14422.32	14427.64
18	14366.42	14368.78	14367.94	14367.68	14366.52	14365.47	14365.77	14364.74	14369.95	14375.18
19	14307.98	14310.99	14310.19	14310.16	14310.03	14307.36	14307.95	14306.37	14311.58	14317.14
20	14244.13	14248.18	14247.80	14247.38	14246.26	14243.99	14244.11	14242.27	14248.74	14253.87
21	14174.67	14177.79	14178.28	14178.28	14177.00	14173.77	14174.25	14172.87	14178.35	14184.60
22	14097.82	14101.73	14101.52	14101.83	14100.32	14096.85	14097.77	14095.85	14102.43	14108.26
23	14013.34	14017.75	14017.52	14016.84	14015.65	14011.93	14012.69	14012.48	14017.58	14024.42
24	13920.19	13925.38	13924.15	13923.52	13922.72	13918.28	13919.63	13918.68	13925.50	13932.09
25	13818.12	13822.73	13821.79	13821.35	13819.54	13815.68	13817.07	13815.60	13823.65	13830.62
26	13704.85	13710.36	13709.14	13709.60	13706.97	13703.22	13703.91	13702.63	13711.28	13718.74
27	13581.26	13586.62	13585.12	13584.38	13581.68	13578.51	13580.59	13578.58	13587.61	13594.53
28	13446.76	13450.54	13449.64	13449.89	13446.56	13443.02	13444.32	13442.91	13452.13	13458.27
29	13296.92	13303.54	13301.52	13300.94	13297.45	13294.21	13295.57	13294.75	13303.00	13309.94
30	13134.51	13140.08	13138.66	13138.42	13134.44	13131.10	13133.83	13130.91	13140.57	13145.36
31	12954.75	12961.64	12958.51	12960.14	12957.00	12952.23	12955.00	12951.63	12962.11	12966.49
32	12758.29	12764.53	12763.78	12763.40	12761.04	12758.66	12760.02	12757.88	12765.00	12769.59
33	12545.39	12554.07	12549.67	12552.08	12548.43	12547.56	12545.98	12545.33	12551.31	12555.05
34	12315.50	12321.94	12319.49	12319.56	12319.60	12316.16	12316.02	12312.49	12319.38	12321.76
35	12066.55	12072.04	12070.43	12070.42	12069.01	12064.96	12065.97	12062.91	12067.94	12067.25
36	11792.80	11799.77	11796.33	11800.52	11796.99	11794.22	11794.06	11789.30	11793.96	11792.56
37	11503.87	11508.58	11507.76	11508.20	11508.37	11504.19	11503.04	11497.93	11498.15	11494.28
38	11189.66	11195.60	11192.97	11194.01	11193.56	11189.32	11187.50	11183.86	11181.73	11172.34
39	10855.47	10863.24	10859.46	10862.99	10858.95	10855.45	10851.20	10848.07	10843.29	10828.42
40	10502.01	10506.23	10505.75	10505.06	10502.60	10498.19	10495.43	10488.50	10483.31	10464.58
41	10121.48	10129.73	10126.19	10125.62	10122.68	10118.33	10112.51	10102.77	10095.41	10076.25
42	9722.52	9731.16	9727.86	9729.86	9723.77	9720.26	9710.76	9703.49	9691.89	9664.66
43	9303.23	9314.40	9308.71	9309.29	9305.38	9298.22	9289.25	9281.02	9263.83	9236.62
44	8875.66	8879.53	8877.94	8877.08	8870.33	8863.01	8853.40	8842.71	8823.91	8787.96
45	8427.53	8435.94	8429.30	8429.27	8422.33	8413.46	8403.65	8390.78	8369.35	8330.38
46	7968.80	7975.72	7969.06	7966.24	7958.72	7953.28	7938.28	7925.86	7898.70	7853.53
47	7510.95	7508.97	7502.62	7500.13	7492.92	7487.04	7469.37	7455.03	7428.37	7377.21
48	7038.06	7040.83	7033.42	7028.47	7019.45	7012.62	6996.27	6981.08	6950.85	6897.22
49	6568.95	6572.71	6563.31	6564.11	6550.42	6546.72	6525.10	6510.95	6477.81	6425.61
50	6115.47	6112.72	6105.75	6100.91	6090.41	6081.82	6064.61	6050.02	6013.57	5956.15
51	5663.05	5667.98	5656.03	5653.83	5643.85	5632.97	5616.55	5599.67	5562.60	5504.25
52	5237.39	5236.71	5225.87	5219.83	5208.40	5200.98	5181.22	5167.78	5127.87	5073.17
53	4818.12	4820.44	4812.80	4810.19	4797.23	4789.84	4766.87	4753.34	4714.60	4660.97

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**CANDELA TABULATION - (Cont.)**

54	4433.44	4429.62	4423.28	4416.18	4405.89	4398.62	4380.79	4364.17	4327.74	4271.20
55	4059.27	4060.78	4054.13	4048.45	4037.75	4030.72	4011.24	3998.33	3961.15	3907.30
56	3722.62	3718.90	3713.76	3704.60	3697.17	3689.39	3673.99	3656.34	3625.88	3570.26
57	3404.01	3399.59	3393.69	3387.77	3378.20	3370.78	3356.60	3341.90	3310.36	3259.95
58	3110.55	3106.96	3100.06	3095.76	3096.85	3082.25	3074.23	3050.46	3024.52	2975.32
59	2839.87	2838.15	2839.37	2834.76	2824.24	2814.01	2805.57	2785.92	2750.79	2715.78
60	2591.43	2579.45	2590.15	2585.11	2566.96	2566.72	2547.28	2548.11	2511.39	2484.48
61	2353.60	2354.52	2350.78	2346.66	2338.27	2330.98	2322.79	2321.22	2287.02	2263.57
62	2144.54	2141.26	2138.14	2134.10	2127.30	2123.52	2113.60	2103.63	2081.62	2050.29
63	1949.35	1947.30	1943.36	1941.22	1934.58	1932.10	1923.44	1913.20	1894.99	1865.29
64	1773.96	1770.88	1767.75	1764.61	1761.41	1758.29	1751.20	1742.21	1725.67	1698.78
65	1614.32	1612.36	1609.24	1607.74	1604.83	1601.80	1594.34	1587.60	1573.26	1548.31
66	1472.52	1470.00	1468.24	1467.22	1463.71	1461.09	1454.54	1448.47	1436.37	1414.84
67	1341.79	1338.28	1337.11	1335.22	1332.11	1329.62	1324.95	1325.67	1309.01	1293.82
68	1219.68	1214.48	1213.64	1216.70	1209.21	1211.43	1201.72	1203.12	1188.34	1177.11
69	1103.20	1103.84	1101.18	1100.32	1096.80	1097.39	1088.62	1085.28	1078.63	1063.22
70	992.48	997.00	994.38	987.45	991.40	986.76	988.99	982.48	981.20	963.44
71	896.19	895.55	892.63	891.35	889.65	889.99	893.10	887.71	887.03	873.37
72	805.20	802.64	801.15	799.42	799.19	798.95	797.66	797.43	793.28	785.43
73	717.10	715.75	713.23	712.77	712.35	713.11	711.98	712.54	708.39	702.64
74	637.45	635.35	633.61	632.67	632.31	634.17	633.91	634.57	631.31	626.17
75	561.10	559.46	557.54	556.91	556.79	559.72	559.35	560.18	557.45	553.45
76	487.42	485.99	484.24	484.86	485.21	486.23	487.05	487.70	487.09	484.09
77	413.43	412.70	412.62	414.51	414.37	415.25	414.51	416.90	417.14	415.77
78	344.55	343.02	345.00	344.23	348.02	345.57	348.15	347.65	351.55	348.50
79	281.60	278.98	279.71	278.76	282.95	281.14	284.56	283.89	287.24	285.32
80	219.73	218.21	217.03	221.84	220.17	224.97	223.14	227.24	225.68	228.30
81	160.13	160.71	162.14	168.61	165.77	170.28	167.72	173.86	171.29	174.11
82	112.93	117.83	118.47	124.15	121.85	124.65	123.41	127.93	125.64	124.59
83	78.39	79.65	84.08	87.19	86.86	86.94	87.79	89.89	89.78	88.56
84	45.07	46.54	49.54	53.34	51.20	52.88	51.70	54.81	52.19	53.49
85	18.67	20.44	22.76	24.03	21.13	21.56	21.41	23.57	20.91	19.80
86	8.19	9.05	8.89	9.63	9.12	9.54	8.88	8.97	8.41	8.40
87	7.56	7.58	7.63	7.61	7.64	7.57	7.58	7.51	7.50	7.40
88	7.13	7.18	7.17	7.20	7.17	7.17	7.11	7.09	7.01	6.98
89	6.72	6.81	6.79	6.85	6.80	6.84	6.75	6.77	6.66	6.60
90	7.10	7.10	7.11	7.10	7.11	7.10	7.09	7.07	7.03	6.96
91	7.64	7.63	7.63	7.63	7.62	7.63	7.60	7.60	7.54	7.48
92	8.22	8.21	8.22	8.22	8.21	8.22	8.19	8.19	8.11	8.05
93	8.88	8.86	8.86	8.86	8.85	8.86	8.83	8.82	8.75	8.68
94	9.58	9.57	9.57	9.56	9.56	9.56	9.54	9.52	9.46	9.36
95	10.35	10.34	10.35	10.32	10.34	10.31	10.31	10.26	10.21	10.10
96	11.16	11.17	11.16	11.15	11.14	11.13	11.11	11.06	11.01	10.88
97	12.04	12.02	12.02	12.01	11.99	12.00	11.97	11.95	11.87	11.76
98	12.98	12.97	12.95	12.96	12.93	12.93	12.89	12.88	12.78	12.67
99	13.98	13.97	13.95	13.95	13.93	13.93	13.89	13.87	13.77	13.65
100	15.05	15.03	15.02	15.01	15.00	14.98	14.96	14.91	14.83	14.68
101	16.15	16.15	16.14	16.12	16.12	16.10	16.08	16.02	15.95	15.79
102	17.32	17.33	17.33	17.31	17.29	17.28	17.25	17.19	17.11	16.93
103	18.57	18.57	18.55	18.54	18.54	18.50	18.49	18.43	18.33	18.15
104	19.87	19.86	19.84	19.83	19.83	19.81	19.77	19.71	19.62	19.43
105	21.22	21.22	21.19	21.19	21.15	21.16	21.10	21.07	20.94	20.78
106	22.64	22.63	22.61	22.60	22.57	22.56	22.50	22.46	22.34	22.16
107	24.10	24.09	24.08	24.05	24.03	24.01	23.97	23.91	23.80	23.61
108	25.61	25.61	25.58	25.57	25.54	25.54	25.48	25.42	25.32	25.12
109	27.17	27.18	27.14	27.14	27.13	27.07	27.05	26.96	26.87	26.63

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110	28.79	28.79	28.76	28.74	28.73	28.67	28.66	28.56	28.48	28.22
111	30.44	30.43	30.42	30.38	30.38	30.33	30.30	30.21	30.12	29.85
112	32.12	32.13	32.10	32.07	32.04	32.02	31.98	31.90	31.78	31.54
113	33.87	33.85	33.82	33.81	33.78	33.75	33.70	33.62	33.51	33.28
114	35.63	35.61	35.60	35.58	35.54	35.51	35.46	35.38	35.26	35.03
115	37.44	37.42	37.38	37.37	37.35	37.31	37.26	37.19	37.06	36.81
116	39.28	39.25	39.24	39.21	39.19	39.13	39.10	39.02	38.89	38.63
117	41.13	41.14	41.10	41.08	41.04	41.01	40.96	40.87	40.75	40.50
118	43.03	43.02	42.98	42.96	42.92	42.91	42.83	42.77	42.63	42.37
119	44.94	44.92	44.91	44.88	44.84	44.80	44.74	44.65	44.54	44.28
120	46.89	46.84	46.85	46.80	46.78	46.73	46.69	46.59	46.46	46.21
121	48.82	48.80	48.78	48.75	48.73	48.68	48.63	48.52	48.41	48.18
122	50.78	50.77	50.75	50.73	50.68	50.64	50.59	50.50	50.38	50.13
123	52.76	52.73	52.73	52.70	52.65	52.63	52.57	52.47	52.36	52.09
124	54.75	54.73	54.70	54.70	54.65	54.63	54.54	54.46	54.35	54.10
125	56.73	56.74	56.70	56.69	56.63	56.62	56.54	56.45	56.32	56.10
126	58.74	58.72	58.70	58.68	58.62	58.62	58.54	58.44	58.32	58.10
127	60.73	60.70	60.69	60.66	60.63	60.59	60.53	60.42	60.32	60.08
128	62.71	62.70	62.67	62.66	62.61	62.58	62.52	62.44	62.32	62.06
129	64.70	64.68	64.67	64.63	64.60	64.55	64.52	64.42	64.29	64.04
130	66.67	66.65	66.63	66.59	66.56	66.52	66.48	66.36	66.26	66.00
131	68.61	68.61	68.59	68.58	68.53	68.49	68.43	68.33	68.22	67.99
132	70.57	70.56	70.55	70.51	70.48	70.42	70.39	70.27	70.16	69.93
133	72.49	72.48	72.47	72.46	72.42	72.35	72.31	72.20	72.11	71.87
134	74.38	74.40	74.38	74.35	74.31	74.27	74.22	74.12	73.99	73.79
135	76.27	76.29	76.27	76.24	76.20	76.16	76.11	76.00	75.90	75.68
136	78.14	78.14	78.14	78.11	78.09	78.05	77.97	77.87	77.77	77.54
137	79.99	79.99	79.97	79.97	79.93	79.87	79.83	79.71	79.62	79.39
138	81.82	81.81	81.81	81.79	81.76	81.70	81.65	81.54	81.45	81.22
139	83.61	83.61	83.61	83.60	83.56	83.52	83.48	83.34	83.28	83.03
140	85.39	85.43	85.40	85.38	85.36	85.32	85.25	85.13	85.06	84.81
141	87.18	87.21	87.20	87.17	87.13	87.11	87.02	86.94	86.84	86.62
142	88.96	88.99	88.94	88.95	88.92	88.87	88.82	88.71	88.64	88.39
143	90.72	90.75	90.73	90.72	90.69	90.66	90.58	90.50	90.40	90.15
144	92.49	92.52	92.50	92.49	92.46	92.43	92.36	92.27	92.15	91.92
145	94.25	94.30	94.28	94.28	94.24	94.19	94.13	94.05	93.93	93.69
146	96.03	96.07	96.07	96.06	96.02	95.98	95.92	95.83	95.70	95.48
147	97.84	97.86	97.88	97.87	97.82	97.79	97.73	97.64	97.52	97.27
148	99.65	99.69	99.70	99.68	99.66	99.61	99.56	99.47	99.33	99.08
149	101.50	101.52	101.52	101.53	101.49	101.45	101.40	101.30	101.17	100.92
150	103.36	103.39	103.38	103.38	103.35	103.32	103.25	103.16	103.02	102.79
151	105.23	105.26	105.26	105.26	105.23	105.20	105.14	105.04	104.90	104.67
152	107.14	107.15	107.16	107.16	107.14	107.10	107.04	106.93	106.81	106.58
153	109.06	109.08	109.08	109.07	109.04	109.01	108.96	108.84	108.73	108.49
154	110.96	110.99	110.98	110.97	110.95	110.92	110.87	110.76	110.64	110.41
155	112.90	112.92	112.91	112.91	112.87	112.85	112.79	112.69	112.58	112.36
156	114.84	114.86	114.84	114.84	114.80	114.79	114.73	114.62	114.51	114.30
157	116.76	116.78	116.76	116.76	116.73	116.70	116.66	116.56	116.45	116.26
158	118.67	118.69	118.67	118.66	118.64	118.62	118.57	118.46	118.38	118.18
159	120.56	120.58	120.56	120.55	120.51	120.50	120.47	120.35	120.28	120.08
160	122.41	122.44	122.42	122.40	122.37	122.36	122.32	122.22	122.13	121.95
161	124.25	124.27	124.25	124.24	124.21	124.19	124.16	124.05	123.98	123.81
162	126.05	126.04	126.04	126.04	126.00	125.98	125.97	125.84	125.79	125.62
163	127.80	127.81	127.79	127.79	127.76	127.75	127.73	127.61	127.56	127.41
164	129.50	129.52	129.50	129.50	129.46	129.46	129.44	129.33	129.28	129.15
165	131.16	131.16	131.16	131.15	131.12	131.11	131.10	131.00	130.95	130.82

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**CANDELA TABULATION - (Cont.)**

166	132.75	132.76	132.74	132.74	132.72	132.70	132.70	132.61	132.57	132.46
167	134.31	134.32	134.30	134.32	134.29	134.29	134.27	134.20	134.16	134.06
168	135.81	135.83	135.82	135.82	135.81	135.80	135.78	135.72	135.69	135.59
169	137.23	137.25	137.25	137.25	137.23	137.22	137.21	137.16	137.13	137.04
170	138.54	138.56	138.55	138.57	138.55	138.54	138.52	138.50	138.46	138.39
171	139.72	139.74	139.73	139.74	139.72	139.71	139.70	139.68	139.67	139.59
172	140.76	140.78	140.77	140.77	140.75	140.74	140.73	140.73	140.71	140.66
173	141.76	141.79	141.76	141.76	141.74	141.74	141.73	141.71	141.71	141.65
174	142.68	142.70	142.68	142.68	142.65	142.65	142.64	142.61	142.63	142.56
175	143.44	143.46	143.44	143.44	143.41	143.42	143.40	143.36	143.38	143.32
176	144.08	144.11	144.09	144.10	144.07	144.08	144.06	144.02	144.03	143.99
177	144.63	144.65	144.64	144.66	144.62	144.63	144.61	144.56	144.58	144.55
178	145.08	145.09	145.08	145.10	145.06	145.07	145.05	145.00	145.01	145.00
179	145.41	145.43	145.41	145.43	145.39	145.40	145.37	145.32	145.32	145.33
180	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35

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

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96
1	14792.59	14792.66	14792.59	14792.74	14792.50	14792.87	14792.49	14792.49	14792.58	14792.49
2	14789.55	14789.12	14788.81	14789.12	14789.06	14789.34	14788.86	14788.94	14788.99	14788.94
3	14783.64	14782.91	14782.94	14782.93	14783.16	14782.96	14782.54	14782.67	14782.96	14782.67
4	14775.20	14774.34	14774.17	14774.66	14774.90	14774.48	14774.50	14774.18	14774.47	14774.18
5	14764.01	14763.31	14763.37	14763.75	14764.09	14763.88	14763.80	14763.91	14763.98	14763.91
6	14750.19	14750.43	14750.81	14750.88	14750.88	14751.14	14750.60	14750.89	14750.99	14750.89
7	14735.42	14734.64	14735.30	14735.13	14735.46	14735.07	14734.80	14735.37	14735.48	14735.37
8	14717.26	14716.60	14717.38	14717.30	14716.93	14717.02	14716.84	14716.95	14717.36	14716.95
9	14696.45	14696.15	14696.58	14696.69	14696.32	14695.70	14695.86	14696.45	14697.18	14696.45
10	14672.17	14672.27	14673.10	14673.22	14672.79	14672.63	14672.41	14672.84	14673.45	14672.84
11	14644.82	14645.71	14645.89	14646.73	14646.27	14646.17	14646.07	14646.62	14646.65	14646.62
12	14614.76	14615.56	14616.12	14617.04	14615.90	14616.72	14616.63	14617.43	14617.62	14617.43
13	14580.50	14581.27	14581.56	14583.44	14582.45	14583.71	14583.57	14584.56	14585.94	14584.56
14	14542.64	14544.00	14543.94	14545.87	14545.16	14546.83	14546.16	14548.16	14550.07	14548.16
15	14501.09	14502.12	14502.43	14503.96	14503.59	14505.98	14506.10	14508.82	14510.28	14508.82
16	14456.20	14456.37	14456.14	14458.90	14458.59	14460.47	14461.81	14465.13	14466.41	14465.13
17	14405.51	14407.07	14406.64	14409.23	14408.18	14411.28	14412.57	14416.67	14418.87	14416.67
18	14351.26	14351.76	14351.50	14354.24	14353.18	14357.00	14358.91	14363.29	14366.42	14363.29
19	14290.83	14291.30	14290.72	14294.28	14293.23	14297.78	14299.86	14305.29	14307.98	14305.29
20	14224.78	14225.46	14224.22	14227.93	14227.04	14233.11	14234.96	14240.74	14244.13	14240.74
21	14152.51	14154.41	14151.26	14155.51	14154.90	14161.46	14164.09	14170.73	14174.67	14170.73
22	14073.85	14075.33	14073.06	14076.25	14075.81	14083.56	14085.58	14093.58	14097.82	14093.58
23	13987.59	13989.89	13984.56	13989.66	13988.68	13997.67	14000.42	14009.58	14013.34	14009.58
24	13893.14	13894.44	13890.61	13895.60	13894.72	13903.26	13906.14	13914.93	13920.19	13914.93
25	13790.36	13792.66	13786.65	13791.65	13791.19	13799.96	13804.31	13813.41	13818.12	13813.41
26	13676.18	13677.51	13673.52	13679.71	13678.05	13687.41	13689.82	13700.03	13704.85	13700.03
27	13552.06	13554.71	13548.22	13554.91	13552.39	13562.94	13565.48	13576.92	13581.26	13576.92
28	13416.84	13417.69	13413.73	13419.52	13417.01	13427.54	13430.43	13441.77	13446.76	13441.77
29	13267.65	13270.70	13264.72	13270.68	13267.55	13279.26	13280.63	13293.08	13296.92	13293.08
30	13104.29	13107.62	13101.20	13108.01	13103.63	13115.97	13118.24	13129.64	13134.51	13129.64
31	12927.11	12929.19	12923.69	12929.54	12925.07	12938.03	12939.08	12951.48	12954.75	12951.48
32	12732.72	12734.62	12728.09	12735.34	12731.21	12743.11	12743.74	12756.32	12758.29	12756.32
33	12520.47	12526.31	12517.27	12525.66	12519.17	12532.06	12530.79	12544.28	12545.39	12544.28
34	12291.41	12296.42	12287.94	12295.69	12289.06	12301.59	12302.03	12312.11	12315.50	12312.11
35	12041.81	12047.00	12039.53	12047.10	12042.25	12052.04	12052.31	12063.45	12066.55	12063.45
36	11773.34	11778.53	11770.68	11776.32	11769.76	11782.44	11781.25	11791.23	11792.80	11791.23

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**CANDELA TABULATION - (Cont.)**

37	11484.82	11487.52	11480.54	11485.13	11482.26	11491.46	11490.30	11502.38	11503.87	11502.38
38	11173.53	11175.82	11171.64	11176.62	11170.96	11181.04	11179.27	11189.51	11189.66	11189.51
39	10838.84	10843.40	10837.88	10843.20	10836.34	10848.30	10845.73	10854.44	10855.47	10854.44
40	10486.47	10490.66	10484.55	10489.82	10481.54	10491.79	10490.76	10497.71	10502.01	10497.71
41	10107.21	10110.84	10109.24	10111.13	10107.33	10114.34	10111.74	10120.54	10121.48	10120.54
42	9711.62	9714.47	9710.66	9717.53	9711.70	9719.92	9716.91	9725.47	9722.52	9725.47
43	9294.66	9298.08	9296.12	9299.39	9296.04	9306.87	9298.85	9308.36	9303.23	9308.36
44	8862.45	8866.64	8866.50	8870.31	8867.73	8876.41	8872.68	8876.94	8875.66	8876.94
45	8412.74	8420.55	8420.79	8423.23	8422.52	8429.34	8426.43	8429.45	8427.53	8429.45
46	7952.86	7960.79	7963.57	7964.08	7965.63	7971.22	7969.16	7971.84	7968.80	7971.84
47	7485.89	7492.95	7499.66	7502.92	7506.51	7510.35	7509.21	7506.02	7510.95	7506.02
48	7016.50	7021.77	7030.78	7029.65	7034.68	7036.87	7038.17	7041.05	7038.06	7041.05
49	6550.37	6554.71	6559.76	6565.81	6568.68	6574.22	6572.42	6575.80	6568.95	6575.80
50	6089.40	6094.51	6104.40	6106.26	6111.47	6114.25	6115.63	6116.76	6115.47	6116.76
51	5636.16	5645.41	5655.28	5659.00	5666.18	5670.65	5671.06	5668.02	5663.05	5668.02
52	5209.77	5214.44	5224.45	5228.85	5234.85	5238.10	5233.54	5237.41	5237.39	5237.41
53	4793.68	4798.71	4809.24	4814.10	4823.30	4825.78	4826.19	4826.06	4818.12	4826.06
54	4403.78	4409.14	4420.97	4423.28	4430.42	4433.32	4431.73	4433.44	4433.44	4433.44
55	4035.42	4039.12	4052.26	4056.41	4064.12	4066.09	4064.31	4067.27	4059.27	4067.27
56	3692.52	3696.07	3710.37	3711.54	3722.68	3721.33	3724.55	3721.68	3722.62	3721.68
57	3375.91	3391.15	3389.98	3404.35	3403.48	3415.20	3407.00	3404.86	3404.01	3404.86
58	3082.15	3095.50	3095.93	3109.75	3110.13	3119.20	3111.98	3119.61	3110.55	3119.61
59	2813.55	2812.35	2829.06	2826.20	2839.51	2836.09	2841.11	2847.08	2839.87	2847.08
60	2574.53	2563.98	2589.33	2576.76	2599.49	2585.82	2601.41	2585.67	2591.43	2585.67
61	2344.70	2336.97	2358.60	2348.86	2367.61	2356.68	2368.96	2355.51	2353.60	2355.51
62	2122.71	2128.08	2135.54	2137.75	2145.26	2145.81	2145.96	2146.12	2144.54	2146.12
63	1931.60	1933.45	1942.56	1944.85	1952.32	1951.19	1952.22	1949.29	1949.35	1949.29
64	1756.96	1759.37	1767.68	1768.03	1775.53	1774.07	1777.00	1774.02	1773.96	1774.02
65	1598.49	1601.00	1607.79	1609.81	1615.91	1615.24	1618.15	1616.06	1614.32	1616.06
66	1458.73	1460.90	1467.67	1468.15	1474.50	1474.75	1475.64	1473.90	1472.52	1473.90
67	1333.36	1332.00	1341.10	1339.75	1347.29	1343.54	1345.31	1342.69	1341.79	1342.69
68	1212.39	1211.37	1219.63	1217.78	1224.76	1221.10	1224.91	1218.72	1219.68	1218.72
69	1095.39	1099.20	1102.21	1104.79	1106.31	1106.24	1108.81	1107.99	1103.20	1107.99
70	991.95	1000.42	998.69	1004.93	1001.87	1005.16	998.15	1001.71	992.48	1001.71
71	897.16	904.74	904.20	909.53	906.71	908.82	902.35	898.97	896.19	898.97
72	808.01	810.26	814.28	815.23	816.62	813.41	811.39	807.46	805.20	807.46
73	722.97	725.16	730.20	729.42	730.50	726.77	723.12	718.96	717.10	718.96
74	643.93	646.80	650.79	649.89	650.79	647.34	643.34	639.49	637.45	639.49
75	568.64	572.71	576.05	575.97	575.24	571.07	567.20	563.12	561.10	563.12
76	497.51	500.36	503.71	503.06	502.60	498.77	494.79	490.45	487.42	490.45
77	427.08	428.89	432.54	431.84	432.81	428.65	423.81	417.38	413.43	417.38
78	358.17	362.38	363.83	365.76	364.13	361.39	356.43	349.77	344.55	349.77
79	292.97	297.24	300.58	300.56	298.56	296.47	292.34	285.45	281.60	285.45
80	234.13	234.64	239.82	237.23	238.84	234.32	229.79	224.04	219.73	224.04
81	178.29	177.02	181.51	178.63	180.90	174.64	170.51	164.20	160.13	164.20
82	128.85	126.30	131.41	128.36	129.91	126.15	124.80	120.91	112.93	120.91
83	88.50	89.37	90.48	90.57	89.46	89.70	85.99	82.80	78.39	82.80
84	50.01	51.83	51.48	52.30	49.92	51.82	47.57	46.65	45.07	46.65
85	19.81	19.31	20.86	19.13	18.54	19.05	18.62	19.05	18.67	19.05
86	8.46	8.26	8.50	8.34	8.55	8.24	8.20	8.17	8.19	8.17
87	7.44	7.46	7.44	7.44	7.47	7.50	7.51	7.53	7.56	7.53
88	7.03	7.01	7.01	7.01	7.03	7.07	7.07	7.11	7.13	7.11
89	6.70	6.69	6.73	6.71	6.75	6.71	6.73	6.72	6.72	6.72
90	7.07	7.08	7.10	7.11	7.12	7.11	7.12	7.11	7.10	7.11
91	7.61	7.60	7.64	7.62	7.65	7.63	7.65	7.64	7.64	7.64
92	8.20	8.19	8.23	8.21	8.25	8.22	8.24	8.22	8.22	8.22

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**CANDELA TABULATION - (Cont.)**

93	8.84	8.84	8.87	8.87	8.90	8.88	8.89	8.87	8.88	8.87
94	9.54	9.54	9.58	9.58	9.61	9.59	9.60	9.57	9.58	9.57
95	10.28	10.33	10.31	10.35	10.34	10.37	10.35	10.36	10.35	10.36
96	11.11	11.14	11.15	11.17	11.17	11.19	11.18	11.18	11.16	11.18
97	11.98	12.01	12.03	12.03	12.06	12.05	12.05	12.04	12.04	12.04
98	12.93	12.92	12.97	12.96	13.00	12.98	13.00	12.97	12.98	12.97
99	13.92	13.92	13.96	13.95	13.99	13.97	13.99	13.97	13.98	13.97
100	14.98	14.99	15.03	15.02	15.05	15.04	15.06	15.03	15.05	15.03
101	16.08	16.10	16.13	16.14	16.16	16.17	16.17	16.16	16.15	16.16
102	17.23	17.29	17.28	17.33	17.33	17.35	17.32	17.36	17.32	17.36
103	18.49	18.53	18.53	18.57	18.58	18.59	18.58	18.58	18.57	18.58
104	19.79	19.79	19.84	19.85	19.88	19.87	19.88	19.86	19.87	19.86
105	21.14	21.15	21.20	21.20	21.22	21.22	21.23	21.21	21.22	21.21
106	22.55	22.56	22.59	22.60	22.64	22.63	22.65	22.62	22.64	22.62
107	24.02	24.02	24.07	24.06	24.10	24.10	24.13	24.10	24.10	24.10
108	25.52	25.55	25.57	25.60	25.62	25.63	25.62	25.61	25.61	25.61
109	27.07	27.11	27.12	27.15	27.16	27.19	27.19	27.19	27.17	27.19
110	28.66	28.71	28.72	28.78	28.76	28.80	28.78	28.80	28.79	28.80
111	30.30	30.36	30.36	30.41	30.41	30.45	30.44	30.45	30.44	30.45
112	32.00	32.04	32.07	32.11	32.12	32.15	32.13	32.14	32.12	32.14
113	33.74	33.77	33.80	33.82	33.85	33.86	33.88	33.86	33.87	33.86
114	35.49	35.53	35.56	35.57	35.62	35.61	35.64	35.63	35.63	35.63
115	37.30	37.32	37.35	37.38	37.41	37.42	37.44	37.42	37.44	37.42
116	39.12	39.14	39.19	39.19	39.25	39.25	39.28	39.26	39.28	39.26
117	40.98	40.99	41.04	41.06	41.08	41.12	41.14	41.12	41.13	41.12
118	42.85	42.88	42.92	42.94	42.99	43.00	43.03	43.02	43.03	43.02
119	44.75	44.78	44.83	44.85	44.89	44.91	44.94	44.93	44.94	44.93
120	46.69	46.69	46.78	46.76	46.83	46.85	46.88	46.86	46.89	46.86
121	48.62	48.64	48.69	48.71	48.75	48.80	48.81	48.80	48.82	48.80
122	50.59	50.61	50.64	50.69	50.72	50.74	50.77	50.78	50.78	50.78
123	52.53	52.58	52.61	52.64	52.69	52.72	52.75	52.75	52.76	52.75
124	54.51	54.55	54.59	54.64	54.67	54.71	54.73	54.75	54.75	54.75
125	56.50	56.52	56.57	56.63	56.64	56.70	56.71	56.74	56.73	56.74
126	58.48	58.51	58.56	58.60	58.66	58.68	58.71	58.73	58.74	58.73
127	60.46	60.50	60.53	60.58	60.63	60.65	60.70	60.72	60.73	60.72
128	62.41	62.46	62.49	62.56	62.60	62.66	62.69	62.69	62.71	62.69
129	64.39	64.43	64.48	64.51	64.57	64.61	64.66	64.67	64.70	64.67
130	66.34	66.38	66.42	66.48	66.53	66.57	66.62	66.63	66.67	66.63
131	68.28	68.33	68.37	68.42	68.48	68.54	68.57	68.61	68.61	68.61
132	70.20	70.26	70.31	70.36	70.41	70.46	70.51	70.54	70.57	70.54
133	72.12	72.17	72.21	72.28	72.32	72.40	72.43	72.45	72.49	72.45
134	73.98	74.06	74.10	74.16	74.20	74.28	74.33	74.36	74.38	74.36
135	75.87	75.92	75.97	76.05	76.09	76.15	76.21	76.24	76.27	76.24
136	77.71	77.76	77.83	77.88	77.95	78.01	78.08	78.12	78.14	78.12
137	79.54	79.59	79.65	79.71	79.77	79.83	79.90	79.95	79.99	79.95
138	81.34	81.41	81.45	81.53	81.57	81.67	81.71	81.77	81.82	81.77
139	83.13	83.18	83.25	83.30	83.38	83.45	83.53	83.56	83.61	83.56
140	84.89	84.96	85.03	85.10	85.17	85.26	85.32	85.36	85.39	85.36
141	86.66	86.73	86.78	86.87	86.92	87.03	87.09	87.13	87.18	87.13
142	88.42	88.47	88.55	88.63	88.72	88.79	88.87	88.91	88.96	88.91
143	90.18	90.24	90.32	90.38	90.47	90.55	90.64	90.69	90.72	90.69
144	91.93	92.00	92.08	92.15	92.23	92.32	92.40	92.44	92.49	92.44
145	93.71	93.78	93.85	93.91	93.99	94.09	94.16	94.21	94.25	94.21
146	95.47	95.56	95.62	95.70	95.78	95.87	95.93	95.99	96.03	95.99
147	97.29	97.36	97.44	97.50	97.59	97.66	97.75	97.79	97.84	97.79
148	99.11	99.18	99.26	99.35	99.42	99.50	99.55	99.62	99.65	99.62

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**CANDELA TABULATION - (Cont.)**

149	100.96	101.03	101.09	101.17	101.26	101.33	101.40	101.44	101.50	101.44
150	102.81	102.88	102.95	103.04	103.11	103.20	103.25	103.31	103.36	103.31
151	104.70	104.77	104.83	104.92	104.99	105.07	105.14	105.20	105.23	105.20
152	106.60	106.68	106.74	106.81	106.89	106.97	107.04	107.09	107.14	107.09
153	108.53	108.58	108.66	108.73	108.80	108.89	108.95	109.00	109.06	109.00
154	110.45	110.52	110.58	110.65	110.72	110.80	110.87	110.91	110.96	110.91
155	112.39	112.45	112.51	112.59	112.67	112.73	112.80	112.85	112.90	112.85
156	114.33	114.39	114.46	114.53	114.59	114.69	114.74	114.79	114.84	114.79
157	116.28	116.35	116.40	116.46	116.52	116.62	116.67	116.73	116.76	116.73
158	118.22	118.27	118.32	118.38	118.44	118.52	118.60	118.63	118.67	118.63
159	120.12	120.17	120.22	120.28	120.34	120.42	120.47	120.51	120.56	120.51
160	121.98	122.05	122.10	122.16	122.21	122.30	122.34	122.37	122.41	122.37
161	123.84	123.88	123.94	124.00	124.05	124.12	124.17	124.20	124.25	124.20
162	125.65	125.69	125.75	125.81	125.87	125.93	125.98	126.01	126.05	126.01
163	127.41	127.46	127.51	127.57	127.61	127.68	127.73	127.76	127.80	127.76
164	129.13	129.18	129.22	129.28	129.33	129.40	129.43	129.47	129.50	129.47
165	130.78	130.84	130.89	130.93	130.99	131.05	131.08	131.12	131.16	131.12
166	132.39	132.44	132.48	132.54	132.57	132.64	132.68	132.71	132.75	132.71
167	133.97	134.03	134.05	134.11	134.14	134.20	134.24	134.28	134.31	134.28
168	135.48	135.54	135.56	135.61	135.64	135.70	135.74	135.77	135.81	135.77
169	136.91	136.96	136.98	137.04	137.06	137.12	137.16	137.18	137.23	137.18
170	138.23	138.27	138.31	138.35	138.38	138.44	138.48	138.51	138.54	138.51
171	139.40	139.45	139.48	139.53	139.55	139.62	139.65	139.69	139.72	139.69
172	140.44	140.49	140.52	140.58	140.60	140.66	140.70	140.74	140.76	140.74
173	141.43	141.47	141.51	141.56	141.59	141.65	141.69	141.73	141.76	141.73
174	142.34	142.39	142.42	142.47	142.50	142.56	142.59	142.65	142.68	142.65
175	143.10	143.15	143.18	143.22	143.26	143.31	143.35	143.41	143.44	143.41
176	143.75	143.79	143.83	143.88	143.91	143.96	144.00	144.05	144.08	144.05
177	144.30	144.35	144.39	144.43	144.46	144.52	144.56	144.60	144.63	144.60
178	144.74	144.79	144.83	144.87	144.90	144.96	145.00	145.05	145.08	145.05
179	145.06	145.12	145.15	145.20	145.23	145.29	145.32	145.38	145.41	145.38
180	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35

**Vert.  
Angles**

**Horizontal Angles**

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96
1	14792.49	14792.87	14792.50	14792.74	14792.59	14792.66	14792.59	14792.99	14792.90	14792.28
2	14788.86	14789.34	14789.06	14789.12	14788.81	14789.12	14789.55	14789.88	14789.79	14789.39
3	14782.54	14782.96	14783.16	14782.93	14782.94	14782.91	14783.64	14784.41	14783.72	14783.40
4	14774.50	14774.48	14774.90	14774.66	14774.17	14774.34	14775.20	14776.14	14775.73	14775.30
5	14763.80	14763.88	14764.09	14763.75	14763.37	14763.31	14764.01	14766.48	14765.64	14765.22
6	14750.60	14751.14	14750.88	14750.88	14750.81	14750.43	14750.19	14753.94	14753.13	14752.01
7	14734.80	14735.07	14735.46	14735.13	14735.30	14734.64	14735.42	14738.96	14737.42	14736.91
8	14716.84	14717.02	14716.93	14717.30	14717.38	14716.60	14717.26	14721.53	14719.89	14718.62
9	14695.86	14695.70	14696.32	14696.69	14696.58	14696.15	14696.45	14702.05	14700.26	14698.02
10	14672.41	14672.63	14672.79	14673.22	14673.10	14672.27	14672.17	14679.37	14677.21	14674.81
11	14646.07	14646.17	14646.27	14646.73	14645.89	14645.71	14644.82	14653.76	14650.57	14647.96
12	14616.63	14616.72	14615.90	14617.04	14616.12	14615.56	14614.76	14624.91	14621.49	14618.30
13	14583.57	14583.71	14582.45	14583.44	14581.56	14581.27	14580.50	14592.11	14588.85	14585.28
14	14546.16	14546.83	14545.16	14545.87	14543.94	14544.00	14542.64	14556.91	14552.34	14549.18
15	14506.10	14505.98	14503.59	14503.96	14502.43	14502.12	14501.09	14517.85	14512.86	14508.89
16	14461.81	14460.47	14458.59	14458.90	14456.14	14456.37	14456.20	14475.03	14469.79	14466.00
17	14412.57	14411.28	14408.18	14409.23	14406.64	14407.07	14405.51	14427.64	14422.32	14418.00
18	14358.91	14357.00	14353.18	14354.24	14351.50	14351.76	14351.26	14375.18	14369.95	14364.74
19	14299.86	14297.78	14293.23	14294.28	14290.72	14291.30	14290.83	14317.14	14311.58	14306.37



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**CANDELA TABULATION - (Cont.)**

20	14234.96	14233.11	14227.04	14227.93	14224.22	14225.46	14224.78	14253.87	14248.74	14242.27
21	14164.09	14161.46	14154.90	14155.51	14151.26	14154.41	14152.51	14184.60	14178.35	14172.87
22	14085.58	14083.56	14075.81	14076.25	14073.06	14075.33	14073.85	14108.26	14102.43	14095.85
23	14000.42	13997.67	13988.68	13989.66	13984.56	13989.89	13987.59	14024.42	14017.58	14012.48
24	13906.14	13903.26	13894.72	13895.60	13890.61	13894.44	13893.14	13932.09	13925.50	13918.68
25	13804.31	13799.96	13791.19	13791.65	13786.65	13792.66	13790.36	13830.62	13823.65	13815.60
26	13689.82	13687.41	13678.05	13679.71	13673.52	13677.51	13676.18	13718.74	13711.28	13702.63
27	13565.48	13562.94	13552.39	13554.91	13548.22	13554.71	13552.06	13594.53	13587.61	13578.58
28	13430.43	13427.54	13417.01	13419.52	13413.73	13417.69	13416.84	13458.27	13452.13	13442.91
29	13280.63	13279.26	13267.55	13270.68	13264.72	13270.70	13267.65	13309.94	13303.00	13294.75
30	13118.24	13115.97	13103.63	13108.01	13101.20	13107.62	13104.29	13145.36	13140.57	13130.91
31	12939.08	12938.03	12925.07	12929.54	12923.69	12929.19	12927.11	12966.49	12962.11	12951.63
32	12743.74	12743.11	12731.21	12735.34	12728.09	12734.62	12732.72	12769.59	12765.00	12757.88
33	12530.79	12532.06	12519.17	12525.66	12517.27	12526.31	12520.47	12555.05	12551.31	12545.33
34	12302.03	12301.59	12289.06	12295.69	12287.94	12296.42	12291.41	12321.76	12319.38	12312.49
35	12052.31	12052.04	12042.25	12047.10	12039.53	12047.00	12041.81	12067.25	12067.94	12062.91
36	11781.25	11782.44	11769.76	11776.32	11770.68	11778.53	11773.34	11792.56	11793.96	11789.30
37	11490.30	11491.46	11482.26	11485.13	11480.54	11487.52	11484.82	11494.28	11498.15	11497.93
38	11179.27	11181.04	11170.96	11176.62	11171.64	11175.82	11173.53	11172.34	11181.73	11183.86
39	10845.73	10848.30	10836.34	10843.20	10837.88	10843.40	10838.84	10828.42	10843.29	10848.07
40	10490.76	10491.79	10481.54	10489.82	10484.55	10490.66	10486.47	10464.58	10483.31	10488.50
41	10111.74	10114.34	10107.33	10111.13	10109.24	10110.84	10107.21	10076.25	10095.41	10102.77
42	9716.91	9719.92	9711.70	9717.53	9710.66	9714.47	9711.62	9664.66	9691.89	9703.49
43	9298.85	9306.87	9296.04	9299.39	9296.12	9298.08	9294.66	9236.62	9263.83	9281.02
44	8872.68	8876.41	8867.73	8870.31	8866.50	8866.64	8862.45	8787.96	8823.91	8842.71
45	8426.43	8429.34	8422.52	8423.23	8420.79	8420.55	8412.74	8330.38	8369.35	8390.78
46	7969.16	7971.22	7965.63	7964.08	7963.57	7960.79	7952.86	7853.53	7898.70	7925.86
47	7509.21	7510.35	7506.51	7502.92	7499.66	7492.95	7485.89	7377.21	7428.37	7455.03
48	7038.17	7036.87	7034.68	7029.65	7030.78	7021.77	7016.50	6897.22	6950.85	6981.08
49	6572.42	6574.22	6568.68	6565.81	6559.76	6554.71	6550.37	6425.61	6477.81	6510.95
50	6115.63	6114.25	6111.47	6106.26	6104.40	6094.51	6089.40	5956.15	6013.57	6050.02
51	5671.06	5670.65	5666.18	5659.00	5655.28	5645.41	5636.16	5504.25	5562.60	5599.67
52	5233.54	5238.10	5234.85	5228.85	5224.45	5214.44	5209.77	5073.17	5127.87	5167.78
53	4826.19	4825.78	4823.30	4814.10	4809.24	4798.71	4793.68	4660.97	4714.60	4753.34
54	4431.73	4433.32	4430.42	4423.28	4420.97	4409.14	4403.78	4271.20	4327.74	4364.17
55	4064.31	4066.09	4064.12	4056.41	4052.26	4039.12	4035.42	3907.30	3961.15	3998.33
56	3724.55	3721.33	3722.68	3711.54	3710.37	3696.07	3692.52	3570.26	3625.88	3656.34
57	3407.00	3415.20	3403.48	3404.35	3389.98	3391.15	3375.91	3259.95	3310.36	3341.90
58	3111.98	3119.20	3110.13	3109.75	3095.93	3095.50	3082.15	2975.32	3024.52	3050.46
59	2841.11	2836.09	2839.51	2826.20	2829.06	2812.35	2813.55	2715.78	2750.79	2785.92
60	2601.41	2585.82	2599.49	2576.76	2589.33	2563.98	2574.53	2484.48	2511.39	2548.11
61	2368.96	2356.68	2367.61	2348.86	2358.60	2336.97	2344.70	2263.57	2287.02	2321.22
62	2145.96	2145.81	2145.26	2137.75	2135.54	2128.08	2122.71	2050.29	2081.62	2103.63
63	1952.22	1951.19	1952.32	1944.85	1942.56	1933.45	1931.60	1865.29	1894.99	1913.20
64	1777.00	1774.07	1775.53	1768.03	1767.68	1759.37	1756.96	1698.78	1725.67	1742.21
65	1618.15	1615.24	1615.91	1609.81	1607.79	1601.00	1598.49	1548.31	1573.26	1587.60
66	1475.64	1474.75	1474.50	1468.15	1467.67	1460.90	1458.73	1414.84	1436.37	1448.47
67	1345.31	1343.54	1347.29	1339.75	1341.10	1332.00	1333.36	1293.82	1309.01	1325.67
68	1224.91	1221.10	1224.76	1217.78	1219.63	1211.37	1212.39	1177.11	1188.34	1203.12
69	1108.81	1106.24	1106.31	1104.79	1102.21	1099.20	1095.39	1063.22	1078.63	1085.28
70	998.15	1005.16	1001.87	1004.93	998.69	1000.42	991.95	963.44	981.20	982.48
71	902.35	908.82	906.71	909.53	904.20	904.74	897.16	873.37	887.03	887.71
72	811.39	813.41	816.62	815.23	814.28	810.26	808.01	785.43	793.28	797.43
73	723.12	726.77	730.50	729.42	730.20	725.16	722.97	702.64	708.39	712.54
74	643.34	647.34	650.79	649.89	650.79	646.80	643.93	626.17	631.31	634.57
75	567.20	571.07	575.24	575.97	576.05	572.71	568.64	553.45	557.45	560.18

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**CANDELA TABULATION - (Cont.)**

76	494.79	498.77	502.60	503.06	503.71	500.36	497.51	484.09	487.09	487.70
77	423.81	428.65	432.81	431.84	432.54	428.89	427.08	415.77	417.14	416.90
78	356.43	361.39	364.13	365.76	363.83	362.38	358.17	348.50	351.55	347.65
79	292.34	296.47	298.56	300.56	300.58	297.24	292.97	285.32	287.24	283.89
80	229.79	234.32	238.84	237.23	239.82	234.64	234.13	228.30	225.68	227.24
81	170.51	174.64	180.90	178.63	181.51	177.02	178.29	174.11	171.29	173.86
82	124.80	126.15	129.91	128.36	131.41	126.30	128.85	124.59	125.64	127.93
83	85.99	89.70	89.46	90.57	90.48	89.37	88.50	88.56	89.78	89.89
84	47.57	51.82	49.92	52.30	51.48	51.83	50.01	53.49	52.19	54.81
85	18.62	19.05	18.54	19.13	20.86	19.31	19.81	19.80	20.91	23.57
86	8.20	8.24	8.55	8.34	8.50	8.26	8.46	8.40	8.41	8.97
87	7.51	7.50	7.47	7.44	7.44	7.46	7.44	7.40	7.50	7.51
88	7.07	7.07	7.03	7.01	7.01	7.01	7.03	6.98	7.01	7.09
89	6.73	6.71	6.75	6.71	6.73	6.69	6.70	6.60	6.66	6.77
90	7.12	7.11	7.12	7.11	7.10	7.08	7.07	6.96	7.03	7.07
91	7.65	7.63	7.65	7.62	7.64	7.60	7.61	7.48	7.54	7.60
92	8.24	8.22	8.25	8.21	8.23	8.19	8.20	8.05	8.11	8.19
93	8.89	8.88	8.90	8.87	8.87	8.84	8.84	8.68	8.75	8.82
94	9.60	9.59	9.61	9.58	9.58	9.54	9.54	9.36	9.46	9.52
95	10.35	10.37	10.34	10.35	10.31	10.33	10.28	10.10	10.21	10.26
96	11.18	11.19	11.17	11.17	11.15	11.14	11.11	10.88	11.01	11.06
97	12.05	12.05	12.06	12.03	12.03	12.01	11.98	11.76	11.87	11.95
98	13.00	12.98	13.00	12.96	12.97	12.92	12.93	12.67	12.78	12.88
99	13.99	13.97	13.99	13.95	13.96	13.92	13.92	13.65	13.77	13.87
100	15.06	15.04	15.05	15.02	15.03	14.99	14.98	14.68	14.83	14.91
101	16.17	16.17	16.16	16.14	16.13	16.10	16.08	15.79	15.95	16.02
102	17.32	17.35	17.33	17.33	17.28	17.29	17.23	16.93	17.11	17.19
103	18.58	18.59	18.58	18.57	18.53	18.53	18.49	18.15	18.33	18.43
104	19.88	19.87	19.88	19.85	19.84	19.79	19.79	19.43	19.62	19.71
105	21.23	21.22	21.22	21.20	21.20	21.15	21.14	20.78	20.94	21.07
106	22.65	22.63	22.64	22.60	22.59	22.56	22.55	22.16	22.34	22.46
107	24.13	24.10	24.10	24.06	24.07	24.02	24.02	23.61	23.80	23.91
108	25.62	25.63	25.62	25.60	25.57	25.55	25.52	25.12	25.32	25.42
109	27.19	27.19	27.16	27.15	27.12	27.11	27.07	26.63	26.87	26.96
110	28.78	28.80	28.76	28.78	28.72	28.71	28.66	28.22	28.48	28.56
111	30.44	30.45	30.41	30.41	30.36	30.36	30.30	29.85	30.12	30.21
112	32.13	32.15	32.12	32.11	32.07	32.04	32.00	31.54	31.78	31.90
113	33.88	33.86	33.85	33.82	33.80	33.77	33.74	33.28	33.51	33.62
114	35.64	35.61	35.62	35.57	35.56	35.53	35.49	35.03	35.26	35.38
115	37.44	37.42	37.41	37.38	37.35	37.32	37.30	36.81	37.06	37.19
116	39.28	39.25	39.25	39.19	39.19	39.14	39.12	38.63	38.89	39.02
117	41.14	41.12	41.08	41.06	41.04	40.99	40.98	40.50	40.75	40.87
118	43.03	43.00	42.99	42.94	42.92	42.88	42.85	42.37	42.63	42.77
119	44.94	44.91	44.89	44.85	44.83	44.78	44.75	44.28	44.54	44.65
120	46.88	46.85	46.83	46.76	46.78	46.69	46.69	46.21	46.46	46.59
121	48.81	48.80	48.75	48.71	48.69	48.64	48.62	48.18	48.41	48.52
122	50.77	50.74	50.72	50.69	50.64	50.61	50.59	50.13	50.38	50.50
123	52.75	52.72	52.69	52.64	52.61	52.58	52.53	52.09	52.36	52.47
124	54.73	54.71	54.67	54.64	54.59	54.55	54.51	54.10	54.35	54.46
125	56.71	56.70	56.64	56.63	56.57	56.52	56.50	56.10	56.32	56.45
126	58.71	58.68	58.66	58.60	58.56	58.51	58.48	58.10	58.32	58.44
127	60.70	60.65	60.63	60.58	60.53	60.50	60.46	60.08	60.32	60.42
128	62.69	62.66	62.60	62.56	62.49	62.46	62.41	62.06	62.32	62.44
129	64.66	64.61	64.57	64.51	64.48	64.43	64.39	64.04	64.29	64.42
130	66.62	66.57	66.53	66.48	66.42	66.38	66.34	66.00	66.26	66.36
131	68.57	68.54	68.48	68.42	68.37	68.33	68.28	67.99	68.22	68.33

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**CANDELA TABULATION - (Cont.)**

132	70.51	70.46	70.41	70.36	70.31	70.26	70.20	69.93	70.16	70.27
133	72.43	72.40	72.32	72.28	72.21	72.17	72.12	71.87	72.11	72.20
134	74.33	74.28	74.20	74.16	74.10	74.06	73.98	73.79	73.99	74.12
135	76.21	76.15	76.09	76.05	75.97	75.92	75.87	75.68	75.90	76.00
136	78.08	78.01	77.95	77.88	77.83	77.76	77.71	77.54	77.77	77.87
137	79.90	79.83	79.77	79.71	79.65	79.59	79.54	79.39	79.62	79.71
138	81.71	81.67	81.57	81.53	81.45	81.41	81.34	81.22	81.45	81.54
139	83.53	83.45	83.38	83.30	83.25	83.18	83.13	83.03	83.28	83.34
140	85.32	85.26	85.17	85.10	85.03	84.96	84.89	84.81	85.06	85.13
141	87.09	87.03	86.92	86.87	86.78	86.73	86.66	86.62	86.84	86.94
142	88.87	88.79	88.72	88.63	88.55	88.47	88.42	88.39	88.64	88.71
143	90.64	90.55	90.47	90.38	90.32	90.24	90.18	90.15	90.40	90.50
144	92.40	92.32	92.23	92.15	92.08	92.00	91.93	91.92	92.15	92.27
145	94.16	94.09	93.99	93.91	93.85	93.78	93.71	93.69	93.93	94.05
146	95.93	95.87	95.78	95.70	95.62	95.56	95.47	95.48	95.70	95.83
147	97.75	97.66	97.59	97.50	97.44	97.36	97.29	97.27	97.52	97.64
148	99.55	99.50	99.42	99.35	99.26	99.18	99.11	99.08	99.33	99.47
149	101.40	101.33	101.26	101.17	101.09	101.03	100.96	100.92	101.17	101.30
150	103.25	103.20	103.11	103.04	102.95	102.88	102.81	102.79	103.02	103.16
151	105.14	105.07	104.99	104.92	104.83	104.77	104.70	104.67	104.90	105.04
152	107.04	106.97	106.89	106.81	106.74	106.68	106.60	106.58	106.81	106.93
153	108.95	108.89	108.80	108.73	108.66	108.58	108.53	108.49	108.73	108.84
154	110.87	110.80	110.72	110.65	110.58	110.52	110.45	110.41	110.64	110.76
155	112.80	112.73	112.67	112.59	112.51	112.45	112.39	112.36	112.58	112.69
156	114.74	114.69	114.59	114.53	114.46	114.39	114.33	114.30	114.51	114.62
157	116.67	116.62	116.52	116.46	116.40	116.35	116.28	116.26	116.45	116.56
158	118.60	118.52	118.44	118.38	118.32	118.27	118.22	118.18	118.38	118.46
159	120.47	120.42	120.34	120.28	120.22	120.17	120.12	120.08	120.28	120.35
160	122.34	122.30	122.21	122.16	122.10	122.05	121.98	121.95	122.13	122.22
161	124.17	124.12	124.05	124.00	123.94	123.88	123.84	123.81	123.98	124.05
162	125.98	125.93	125.87	125.81	125.75	125.69	125.65	125.62	125.79	125.84
163	127.73	127.68	127.61	127.57	127.51	127.46	127.41	127.41	127.56	127.61
164	129.43	129.40	129.33	129.28	129.22	129.18	129.13	129.15	129.28	129.33
165	131.08	131.05	130.99	130.93	130.89	130.84	130.78	130.82	130.95	131.00
166	132.68	132.64	132.57	132.54	132.48	132.44	132.39	132.46	132.57	132.61
167	134.24	134.20	134.14	134.11	134.05	134.03	133.97	134.06	134.16	134.20
168	135.74	135.70	135.64	135.61	135.56	135.54	135.48	135.59	135.69	135.72
169	137.16	137.12	137.06	137.04	136.98	136.96	136.91	137.04	137.13	137.16
170	138.48	138.44	138.38	138.35	138.31	138.27	138.23	138.39	138.46	138.50
171	139.65	139.62	139.55	139.53	139.48	139.45	139.40	139.59	139.67	139.68
172	140.70	140.66	140.60	140.58	140.52	140.49	140.44	140.66	140.71	140.73
173	141.69	141.65	141.59	141.56	141.51	141.47	141.43	141.65	141.71	141.71
174	142.59	142.56	142.50	142.47	142.42	142.39	142.34	142.56	142.63	142.61
175	143.35	143.31	143.26	143.22	143.18	143.15	143.10	143.32	143.38	143.36
176	144.00	143.96	143.91	143.88	143.83	143.79	143.75	143.99	144.03	144.02
177	144.56	144.52	144.46	144.43	144.39	144.35	144.30	144.55	144.58	144.56
178	145.00	144.96	144.90	144.87	144.83	144.79	144.74	145.00	145.01	145.00
179	145.32	145.29	145.23	145.20	145.15	145.12	145.06	145.33	145.32	145.32
180	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35	145.35

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

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96	14793.96
1	14792.89	14792.72	14792.36	14793.33	14792.69	14792.94	14792.58
2	14789.07	14789.25	14788.72	14789.90	14789.04	14789.41	14788.99

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**CANDELA TABULATION - (Cont.)**

3	14783.53	14783.97	14783.19	14783.93	14783.23	14783.76	14782.96
4	14775.94	14776.14	14775.39	14775.96	14774.76	14775.48	14774.47
5	14765.20	14765.66	14764.63	14765.32	14764.64	14764.28	14763.98
6	14752.56	14752.74	14751.90	14752.05	14751.54	14751.60	14750.99
7	14736.82	14736.87	14736.31	14735.95	14736.19	14736.02	14735.48
8	14718.95	14719.02	14718.10	14718.08	14717.98	14718.33	14717.36
9	14697.98	14697.27	14697.07	14697.29	14697.08	14697.53	14697.18
10	14674.29	14673.68	14673.29	14673.34	14673.81	14674.12	14673.45
11	14647.84	14646.94	14647.19	14647.14	14647.10	14647.76	14646.65
12	14618.71	14617.86	14618.31	14617.92	14617.99	14618.65	14617.62
13	14585.71	14585.63	14585.44	14585.40	14585.45	14586.22	14585.94
14	14549.87	14549.74	14549.87	14549.57	14549.47	14550.90	14550.07
15	14509.79	14509.39	14510.55	14509.95	14510.76	14511.62	14510.28
16	14466.43	14465.53	14466.69	14467.42	14467.46	14469.00	14466.41
17	14418.68	14417.89	14419.35	14419.43	14420.09	14421.38	14418.87
18	14365.77	14365.47	14366.52	14367.68	14367.94	14368.78	14366.42
19	14307.95	14307.36	14310.03	14310.16	14310.19	14310.99	14307.98
20	14244.11	14243.99	14246.26	14247.38	14247.80	14248.18	14244.13
21	14174.25	14173.77	14177.00	14178.28	14178.28	14177.79	14174.67
22	14097.77	14096.85	14100.32	14101.83	14101.52	14101.73	14097.82
23	14012.69	14011.93	14015.65	14016.84	14017.52	14017.75	14013.34
24	13919.63	13918.28	13922.72	13923.52	13924.15	13925.38	13920.19
25	13817.07	13815.68	13819.54	13821.35	13821.79	13822.73	13818.12
26	13703.91	13703.22	13706.97	13709.60	13709.14	13710.36	13704.85
27	13580.59	13578.51	13581.68	13584.38	13585.12	13586.62	13581.26
28	13444.32	13443.02	13446.56	13449.89	13449.64	13450.54	13446.76
29	13295.57	13294.21	13297.45	13300.94	13301.52	13303.54	13296.92
30	13133.83	13131.10	13134.44	13138.42	13138.66	13140.08	13134.51
31	12955.00	12952.23	12957.00	12960.14	12958.51	12961.64	12954.75
32	12760.02	12758.66	12761.04	12763.40	12763.78	12764.53	12758.29
33	12545.98	12547.56	12548.43	12552.08	12549.67	12554.07	12545.39
34	12316.02	12316.16	12319.60	12319.56	12319.49	12321.94	12315.50
35	12065.97	12064.96	12069.01	12070.42	12070.43	12072.04	12066.55
36	11794.06	11794.22	11796.99	11800.52	11796.33	11799.77	11792.80
37	11503.04	11504.19	11508.37	11508.20	11507.76	11508.58	11503.87
38	11187.50	11189.32	11193.56	11194.01	11192.97	11195.60	11189.66
39	10851.20	10855.45	10858.95	10862.99	10859.46	10863.24	10855.47
40	10495.43	10498.19	10502.60	10505.06	10505.75	10506.23	10502.01
41	10112.51	10118.33	10122.68	10125.62	10126.19	10129.73	10121.48
42	9710.76	9720.26	9723.77	9729.86	9727.86	9731.16	9722.52
43	9289.25	9298.22	9305.38	9309.29	9308.71	9314.40	9303.23
44	8853.40	8863.01	8870.33	8877.08	8877.94	8879.53	8875.66
45	8403.65	8413.46	8422.33	8429.27	8429.30	8435.94	8427.53
46	7938.28	7953.28	7958.72	7966.24	7969.06	7975.72	7968.80
47	7469.37	7487.04	7492.92	7500.13	7502.62	7508.97	7510.95
48	6996.27	7012.62	7019.45	7028.47	7033.42	7040.83	7038.06
49	6525.10	6546.72	6550.42	6564.11	6563.31	6572.71	6568.95
50	6064.61	6081.82	6090.41	6100.91	6105.75	6112.72	6115.47
51	5616.55	5632.97	5643.85	5653.83	5656.03	5667.98	5663.05
52	5181.22	5200.98	5208.40	5219.83	5225.87	5236.71	5237.39
53	4766.87	4789.84	4797.23	4810.19	4812.80	4820.44	4818.12
54	4380.79	4398.62	4405.89	4416.18	4423.28	4429.62	4433.44
55	4011.24	4030.72	4037.75	4048.45	4054.13	4060.78	4059.27
56	3673.99	3689.39	3697.17	3704.60	3713.76	3718.90	3722.62
57	3356.60	3370.78	3378.20	3387.77	3393.69	3399.59	3404.01
58	3074.23	3082.25	3096.85	3095.76	3100.06	3106.96	3110.55

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**CANDELA TABULATION - (Cont.)**

59	2805.57	2814.01	2824.24	2834.76	2839.37	2838.15	2839.87
60	2547.28	2566.72	2566.96	2585.11	2590.15	2579.45	2591.43
61	2322.79	2330.98	2338.27	2346.66	2350.78	2354.52	2353.60
62	2113.60	2123.52	2127.30	2134.10	2138.14	2141.26	2144.54
63	1923.44	1932.10	1934.58	1941.22	1943.36	1947.30	1949.35
64	1751.20	1758.29	1761.41	1764.61	1767.75	1770.88	1773.96
65	1594.34	1601.80	1604.83	1607.74	1609.24	1612.36	1614.32
66	1454.54	1461.09	1463.71	1467.22	1468.24	1470.00	1472.52
67	1324.95	1329.62	1332.11	1335.22	1337.11	1338.28	1341.79
68	1201.72	1211.43	1209.21	1216.70	1213.64	1214.48	1219.68
69	1088.62	1097.39	1096.80	1100.32	1101.18	1103.84	1103.20
70	988.99	986.76	991.40	987.45	994.38	997.00	992.48
71	893.10	889.99	889.65	891.35	892.63	895.55	896.19
72	797.66	798.95	799.19	799.42	801.15	802.64	805.20
73	711.98	713.11	712.35	712.77	713.23	715.75	717.10
74	633.91	634.17	632.31	632.67	633.61	635.35	637.45
75	559.35	559.72	556.79	556.91	557.54	559.46	561.10
76	487.05	486.23	485.21	484.86	484.24	485.99	487.42
77	414.51	415.25	414.37	414.51	412.62	412.70	413.43
78	348.15	345.57	348.02	344.23	345.00	343.02	344.55
79	284.56	281.14	282.95	278.76	279.71	278.98	281.60
80	223.14	224.97	220.17	221.84	217.03	218.21	219.73
81	167.72	170.28	165.77	168.61	162.14	160.71	160.13
82	123.41	124.65	121.85	124.15	118.47	117.83	112.93
83	87.79	86.94	86.86	87.19	84.08	79.65	78.39
84	51.70	52.88	51.20	53.34	49.54	46.54	45.07
85	21.41	21.56	21.13	24.03	22.76	20.44	18.67
86	8.88	9.54	9.12	9.63	8.89	9.05	8.19
87	7.58	7.57	7.64	7.61	7.63	7.58	7.56
88	7.11	7.17	7.17	7.20	7.17	7.18	7.13
89	6.75	6.84	6.80	6.85	6.79	6.81	6.72
90	7.09	7.10	7.11	7.10	7.11	7.10	7.10
91	7.60	7.63	7.62	7.63	7.63	7.63	7.64
92	8.19	8.22	8.21	8.22	8.22	8.21	8.22
93	8.83	8.86	8.85	8.86	8.86	8.86	8.88
94	9.54	9.56	9.56	9.56	9.57	9.57	9.58
95	10.31	10.31	10.34	10.32	10.35	10.34	10.35
96	11.11	11.13	11.14	11.15	11.16	11.17	11.16
97	11.97	12.00	11.99	12.01	12.02	12.02	12.04
98	12.89	12.93	12.93	12.96	12.95	12.97	12.98
99	13.89	13.93	13.93	13.95	13.95	13.97	13.98
100	14.96	14.98	15.00	15.01	15.02	15.03	15.05
101	16.08	16.10	16.12	16.12	16.14	16.15	16.15
102	17.25	17.28	17.29	17.31	17.33	17.33	17.32
103	18.49	18.50	18.54	18.54	18.55	18.57	18.57
104	19.77	19.81	19.83	19.83	19.84	19.86	19.87
105	21.10	21.16	21.15	21.19	21.19	21.22	21.22
106	22.50	22.56	22.57	22.60	22.61	22.63	22.64
107	23.97	24.01	24.03	24.05	24.08	24.09	24.10
108	25.48	25.54	25.54	25.57	25.58	25.61	25.61
109	27.05	27.07	27.13	27.14	27.14	27.18	27.17
110	28.66	28.67	28.73	28.74	28.76	28.79	28.79
111	30.30	30.33	30.38	30.38	30.42	30.43	30.44
112	31.98	32.02	32.04	32.07	32.10	32.13	32.12
113	33.70	33.75	33.78	33.81	33.82	33.85	33.87
114	35.46	35.51	35.54	35.58	35.60	35.61	35.63

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**CANDELA TABULATION - (Cont.)**

115	37.26	37.31	37.35	37.37	37.38	37.42	37.44
116	39.10	39.13	39.19	39.21	39.24	39.25	39.28
117	40.96	41.01	41.04	41.08	41.10	41.14	41.13
118	42.83	42.91	42.92	42.96	42.98	43.02	43.03
119	44.74	44.80	44.84	44.88	44.91	44.92	44.94
120	46.69	46.73	46.78	46.80	46.85	46.84	46.89
121	48.63	48.68	48.73	48.75	48.78	48.80	48.82
122	50.59	50.64	50.68	50.73	50.75	50.77	50.78
123	52.57	52.63	52.65	52.70	52.73	52.73	52.76
124	54.54	54.63	54.65	54.70	54.70	54.73	54.75
125	56.54	56.62	56.63	56.69	56.70	56.74	56.73
126	58.54	58.62	58.62	58.68	58.70	58.72	58.74
127	60.53	60.59	60.63	60.66	60.69	60.70	60.73
128	62.52	62.58	62.61	62.66	62.67	62.70	62.71
129	64.52	64.55	64.60	64.63	64.67	64.68	64.70
130	66.48	66.52	66.56	66.59	66.63	66.65	66.67
131	68.43	68.49	68.53	68.58	68.59	68.61	68.61
132	70.39	70.42	70.48	70.51	70.55	70.56	70.57
133	72.31	72.35	72.42	72.46	72.47	72.48	72.49
134	74.22	74.27	74.31	74.35	74.38	74.40	74.38
135	76.11	76.16	76.20	76.24	76.27	76.29	76.27
136	77.97	78.05	78.09	78.11	78.14	78.14	78.14
137	79.83	79.87	79.93	79.97	79.97	79.99	79.99
138	81.65	81.70	81.76	81.79	81.81	81.81	81.82
139	83.48	83.52	83.56	83.60	83.61	83.61	83.61
140	85.25	85.32	85.36	85.38	85.40	85.43	85.39
141	87.02	87.11	87.13	87.17	87.20	87.21	87.18
142	88.82	88.87	88.92	88.95	88.94	88.99	88.96
143	90.58	90.66	90.69	90.72	90.73	90.75	90.72
144	92.36	92.43	92.46	92.49	92.50	92.52	92.49
145	94.13	94.19	94.24	94.28	94.28	94.30	94.25
146	95.92	95.98	96.02	96.06	96.07	96.07	96.03
147	97.73	97.79	97.82	97.87	97.88	97.86	97.84
148	99.56	99.61	99.66	99.68	99.70	99.69	99.65
149	101.40	101.45	101.49	101.53	101.52	101.52	101.50
150	103.25	103.32	103.35	103.38	103.38	103.39	103.36
151	105.14	105.20	105.23	105.26	105.26	105.26	105.23
152	107.04	107.10	107.14	107.16	107.16	107.15	107.14
153	108.96	109.01	109.04	109.07	109.08	109.08	109.06
154	110.87	110.92	110.95	110.97	110.98	110.99	110.96
155	112.79	112.85	112.87	112.91	112.91	112.92	112.90
156	114.73	114.79	114.80	114.84	114.84	114.86	114.84
157	116.66	116.70	116.73	116.76	116.76	116.78	116.76
158	118.57	118.62	118.64	118.66	118.67	118.69	118.67
159	120.47	120.50	120.51	120.55	120.56	120.58	120.56
160	122.32	122.36	122.37	122.40	122.42	122.44	122.41
161	124.16	124.19	124.21	124.24	124.25	124.27	124.25
162	125.97	125.98	126.00	126.04	126.04	126.04	126.05
163	127.73	127.75	127.76	127.79	127.79	127.81	127.80
164	129.44	129.46	129.46	129.50	129.50	129.52	129.50
165	131.10	131.11	131.12	131.15	131.16	131.16	131.16
166	132.70	132.70	132.72	132.74	132.74	132.76	132.75
167	134.27	134.29	134.29	134.32	134.30	134.32	134.31
168	135.78	135.80	135.81	135.82	135.82	135.83	135.81
169	137.21	137.22	137.23	137.25	137.25	137.25	137.23
170	138.52	138.54	138.55	138.57	138.55	138.56	138.54

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : NUVHTHOWT50WBD120-277V.IES

CANDELA TABULATION - (Cont.)

171	139.70	139.71	139.72	139.74	139.73	139.74	139.72
172	140.73	140.74	140.75	140.77	140.77	140.78	140.76
173	141.73	141.74	141.74	141.76	141.76	141.79	141.76
174	142.64	142.65	142.65	142.68	142.68	142.70	142.68
175	143.40	143.42	143.41	143.44	143.44	143.46	143.44
176	144.06	144.08	144.07	144.10	144.09	144.11	144.08
177	144.61	144.63	144.62	144.66	144.64	144.65	144.63
178	145.05	145.07	145.06	145.10	145.08	145.09	145.08
179	145.37	145.40	145.39	145.43	145.41	145.43	145.41
180	145.35	145.35	145.35	145.35	145.35	145.35	145.35

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5507.63	17.10	17.10
0-30	11863.96	36.90	36.90
0-40	19351.58	60.20	60.20
0-60	29462.37	91.70	91.70
0-80	31713.04	98.70	98.70
0-90	31778.3	98.90	98.90
10-90	30371.81	94.60	94.60
20-40	13843.96	43.10	43.10
20-50	20274.97	63.10	63.10
40-70	11752.56	36.60	36.60
60-80	2250.66	7.00	7.00
70-80	608.90	1.90	1.90
80-90	65.26	0.20	0.20
90-110	34.07	0.10	0.10
90-120	71.12	0.20	0.20
90-130	121.71	0.40	0.40
90-150	239.25	0.70	0.70
90-180	341.50	1.10	1.10
110-180	307.43	1.00	1.00
0-180	32119.8	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1406.5
10-20	4101.13
20-30	6356.33
30-40	7487.62
40-50	6431.01
50-60	3679.78
60-70	1641.77
70-80	608.90
80-90	65.26
90-100	11.50
100-110	22.56
110-120	37.05
120-130	50.59
130-140	58.65
140-150	58.88
150-160	51.90
160-170	36.83
170-180	13.53



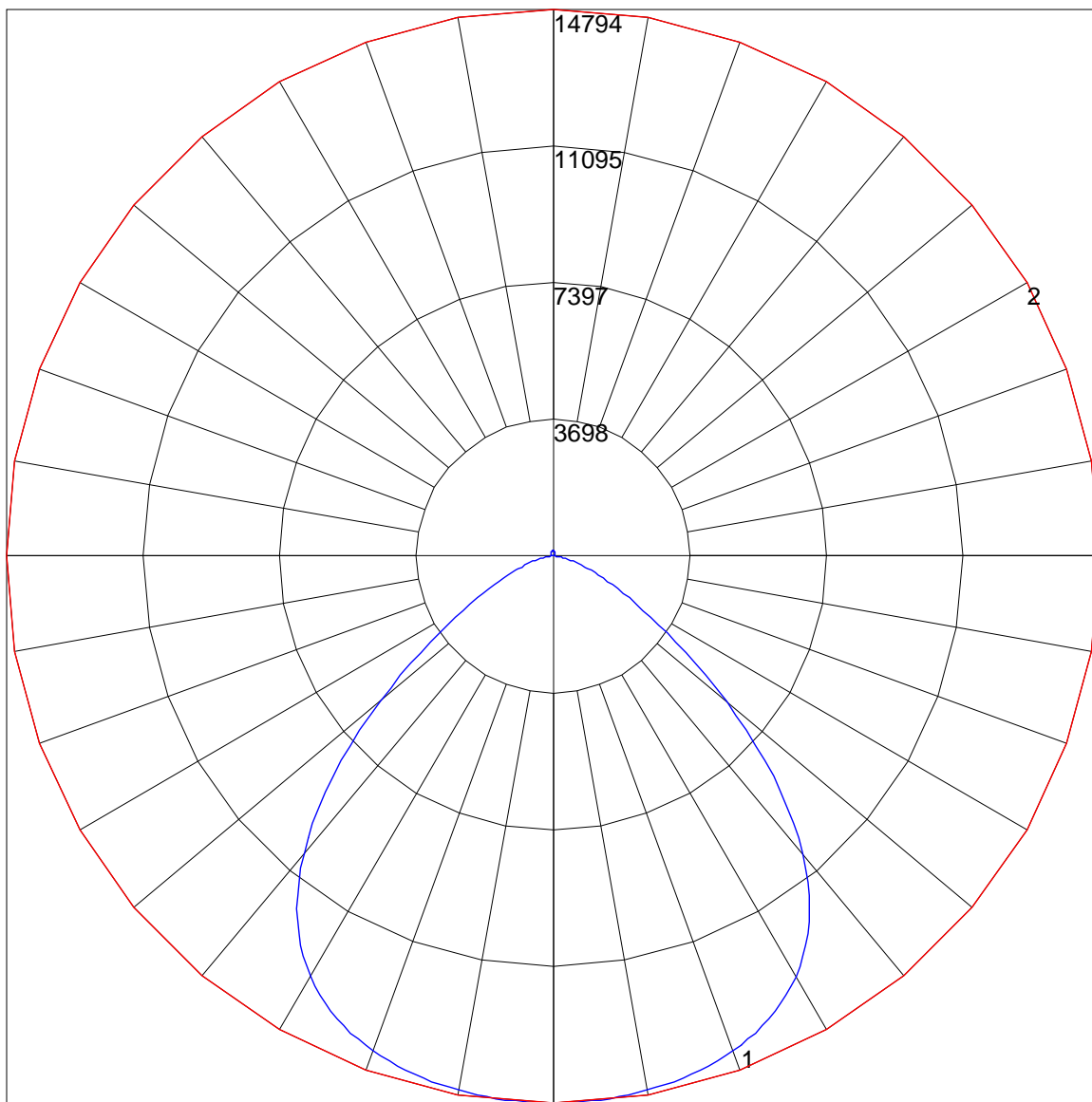
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50WBD120-277V.IES**

**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	101	101	101	99
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	96	91	86	100	94	89	85	91	86	83	87	84	81	84	81	79	77
3	95	86	80	74	93	85	78	73	82	76	72	79	75	71	76	73	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	66	62	70	65	61	59
5	82	71	63	57	80	69	62	57	67	61	56	65	60	55	63	59	55	53
6	76	64	56	51	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	53	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	50	44	40	49	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	33	43	37	33	42	37	33	31

POLAR GRAPH



Maximum Candela = 14793.96 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)