



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 1  
 [TESTLAB] BEGHELLI  
 [TESTDATE] 2016-04-05  
 [ISSUEDATE] 2016-04-14 09:38:58  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [MANUFAC] BEGHELLI  
 [LUMINAIRE] NUVHTHOWT50VWD120-277V  
 [LAMP] 5000K Ra80

### CHARACTERISTICS

Lumens Per Lamp	31609 (1 lamp)
Total Lamp Lumens	31609
Luminaire Lumens	31609
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	238
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
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	69452	69466	69402
55	58769	58756	58737
65	41728	41853	41827
75	17817	17848	17965
85	1107	1026	1067

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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	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21
1	11318.85	11319.39	11319.12	11319.97	11320.56	11319.57	11319.55	11319.76	11319.54	11319.81
2	11313.87	11314.45	11314.26	11315.05	11315.64	11314.47	11314.71	11313.97	11313.75	11313.79
3	11305.75	11305.91	11305.66	11306.51	11306.78	11305.82	11305.98	11305.45	11305.16	11305.39
4	11294.68	11294.15	11294.40	11295.12	11295.81	11294.38	11294.22	11294.07	11293.66	11293.95
5	11280.03	11280.53	11280.76	11281.23	11281.74	11279.78	11280.02	11279.22	11279.12	11279.29
6	11262.62	11262.98	11262.57	11263.88	11264.17	11262.13	11261.48	11261.35	11260.46	11260.87
7	11241.33	11242.05	11241.59	11243.25	11242.71	11240.77	11239.77	11240.22	11239.53	11239.83
8	11216.56	11217.77	11217.40	11218.08	11217.78	11215.70	11215.04	11215.43	11214.72	11215.51
9	11189.12	11189.42	11188.99	11188.96	11188.66	11186.66	11186.62	11186.50	11186.26	11187.10
10	11157.13	11156.65	11156.25	11156.99	11156.59	11154.46	11154.01	11155.18	11154.44	11155.19
11	11121.09	11121.38	11120.62	11121.37	11120.59	11118.44	11118.33	11118.91	11118.69	11119.65
12	11081.69	11081.70	11081.69	11082.08	11081.16	11078.95	11079.34	11079.56	11079.70	11080.12
13	11038.87	11038.92	11038.72	11039.02	11038.07	11036.08	11036.52	11036.03	11037.28	11038.11
14	10991.57	10992.90	10992.47	10992.41	10992.16	10990.31	10989.80	10990.21	10990.70	10991.79
15	10941.76	10943.71	10942.98	10942.10	10941.87	10939.46	10940.02	10939.71	10940.80	10941.76
16	10888.78	10890.54	10889.53	10888.69	10889.28	10886.40	10886.85	10886.83	10887.18	10888.86
17	10832.30	10834.06	10832.20	10831.98	10832.18	10830.08	10829.82	10830.45	10830.89	10832.53
18	10772.35	10773.82	10772.28	10771.91	10771.07	10769.14	10769.90	10771.21	10770.93	10772.55
19	10708.98	10710.34	10708.25	10708.31	10707.23	10705.27	10706.37	10707.46	10708.95	10709.22
20	10641.71	10642.12	10640.69	10640.68	10640.43	10638.60	10639.32	10640.37	10642.15	10643.08
21	10570.73	10571.80	10570.19	10570.02	10570.02	10568.39	10569.14	10570.20	10572.13	10572.84
22	10497.37	10497.12	10495.71	10496.21	10496.32	10495.86	10495.60	10495.71	10498.01	10498.79
23	10420.16	10419.70	10417.55	10418.40	10418.12	10417.61	10418.07	10418.39	10419.89	10421.12
24	10339.22	10338.15	10336.38	10337.32	10338.07	10336.31	10337.56	10337.49	10338.48	10340.70
25	10253.94	10253.37	10251.49	10251.61	10253.03	10251.75	10253.45	10251.42	10253.31	10256.10
26	10165.21	10164.15	10162.43	10162.95	10165.15	10164.87	10164.84	10162.66	10164.44	10168.29
27	10072.35	10071.84	10070.18	10071.57	10073.26	10072.56	10073.80	10071.17	10072.41	10076.99
28	9976.89	9976.31	9976.02	9975.36	9979.92	9978.26	9978.63	9975.90	9977.75	9982.82
29	9877.62	9878.10	9876.86	9876.82	9880.94	9880.44	9881.24	9878.58	9879.24	9884.82
30	9775.78	9776.95	9775.13	9775.04	9778.43	9778.81	9780.49	9776.78	9778.30	9784.23
31	9669.88	9671.58	9669.54	9669.47	9673.15	9674.26	9675.07	9671.53	9672.22	9677.05
32	9561.01	9563.46	9560.93	9560.06	9562.72	9565.74	9566.06	9563.10	9562.51	9567.68
33	9448.50	9451.16	9448.84	9449.41	9450.86	9454.23	9453.89	9451.67	9448.63	9454.61
34	9332.75	9335.33	9332.82	9333.96	9336.05	9337.99	9339.71	9336.21	9333.11	9337.59
35	9212.78	9216.26	9214.75	9214.64	9217.55	9218.59	9220.94	9217.37	9213.16	9216.63
36	9089.21	9094.13	9092.21	9093.48	9095.89	9095.34	9096.76	9093.77	9089.68	9092.55
37	8961.92	8967.16	8965.78	8965.99	8968.89	8967.76	8969.14	8965.36	8963.23	8963.87
38	8829.12	8834.80	8834.71	8835.49	8839.89	8835.60	8836.97	8834.15	8831.77	8832.52
39	8694.19	8700.24	8699.92	8700.98	8705.00	8700.79	8700.70	8699.38	8696.50	8697.20
40	8555.46	8560.86	8560.35	8563.40	8568.85	8561.67	8561.50	8560.49	8557.54	8559.02
41	8413.92	8417.72	8417.59	8420.23	8424.80	8417.87	8418.40	8418.15	8414.43	8415.30
42	8268.01	8270.85	8271.86	8276.53	8276.71	8271.80	8273.56	8273.38	8268.50	8268.80
43	8119.09	8120.54	8121.16	8126.55	8126.62	8122.25	8124.09	8123.31	8119.72	8119.20
44	7968.28	7966.43	7968.58	7972.88	7973.45	7969.42	7971.81	7969.82	7966.26	7963.44
45	7812.33	7810.66	7812.68	7816.28	7815.04	7812.74	7816.94	7813.72	7809.31	7806.78
46	7653.05	7649.58	7651.89	7654.04	7649.82	7651.20	7655.78	7652.26	7650.28	7644.15
47	7488.33	7485.43	7488.80	7487.61	7483.76	7486.16	7490.86	7487.28	7485.72	7479.17
48	7317.28	7316.98	7317.08	7316.68	7313.49	7315.50	7320.84	7317.06	7317.14	7311.81
49	7142.85	7143.71	7143.83	7143.43	7139.74	7141.36	7145.72	7144.63	7144.07	7140.88
50	6965.20	6964.75	6964.60	6965.43	6964.02	6962.92	6968.13	6967.08	6969.05	6965.45
51	6782.78	6783.35	6780.89	6784.29	6783.15	6780.79	6782.53	6785.53	6786.65	6783.59
52	6598.62	6598.84	6595.87	6599.29	6598.77	6593.89	6595.91	6600.89	6600.62	6600.54
53	6409.36	6408.14	6405.95	6410.94	6411.08	6404.13	6401.38	6409.63	6411.52	6412.86

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54	6218.87	6213.73	6215.61	6217.16	6221.35	6211.96	6208.42	6216.85	6219.72	6216.65
55	6020.75	6014.81	6019.52	6018.39	6021.80	6016.91	6009.08	6016.78	6025.34	6017.44
56	5818.41	5810.99	5819.03	5816.33	5819.70	5818.41	5810.87	5813.56	5822.93	5814.02
57	5612.02	5605.35	5612.13	5609.42	5611.00	5614.86	5608.15	5609.35	5616.61	5606.48
58	5398.38	5393.89	5400.75	5400.93	5398.99	5404.38	5397.85	5398.56	5405.19	5394.07
59	5183.48	5179.86	5185.05	5187.79	5182.89	5188.79	5182.33	5186.97	5185.72	5178.92
60	4961.94	4962.46	4965.58	4967.36	4965.16	4964.65	4963.05	4969.48	4966.36	4958.25
61	4732.83	4733.97	4736.41	4738.41	4736.57	4733.90	4734.56	4741.28	4739.90	4736.03
62	4488.52	4491.76	4494.79	4491.87	4493.70	4491.24	4492.74	4501.90	4499.30	4499.37
63	4234.04	4242.78	4247.42	4248.44	4243.41	4244.99	4242.18	4247.59	4242.80	4244.41
64	3978.46	3986.63	3991.98	3993.01	3988.60	3992.11	3986.69	3987.30	3980.82	3987.39
65	3726.14	3736.90	3737.51	3737.04	3735.61	3738.91	3732.38	3730.90	3725.93	3734.93
66	3484.89	3492.29	3487.92	3492.63	3487.30	3491.54	3487.43	3483.30	3482.54	3489.31
67	3244.21	3246.47	3242.70	3242.22	3242.46	3242.62	3243.79	3239.54	3239.60	3243.09
68	2992.56	2989.72	2990.78	2988.05	2987.08	2985.94	2991.16	2992.69	2994.37	2998.70
69	2733.03	2727.77	2736.93	2730.00	2730.16	2722.13	2730.10	2730.19	2737.57	2733.14
70	2468.27	2474.47	2469.66	2475.95	2463.03	2471.25	2463.06	2477.21	2480.14	2469.69
71	2223.87	2223.95	2227.86	2229.67	2221.21	2226.75	2221.60	2227.07	2227.51	2224.44
72	1985.40	1982.02	1989.20	1985.76	1983.08	1984.22	1990.09	1992.27	1996.80	1992.74
73	1751.22	1752.39	1752.00	1753.64	1751.20	1750.93	1751.65	1749.73	1751.11	1751.11
74	1523.88	1523.36	1523.37	1527.02	1522.49	1523.05	1523.83	1522.80	1526.26	1526.60
75	1308.29	1310.31	1308.73	1313.37	1311.23	1310.00	1314.76	1316.92	1316.61	1319.16
76	1104.02	1113.79	1106.66	1116.05	1107.60	1115.95	1117.85	1116.74	1119.97	1117.51
77	914.75	921.99	916.74	922.41	916.37	924.83	925.43	931.15	931.80	926.71
78	735.16	738.05	737.25	737.91	736.35	740.74	744.26	746.33	744.45	744.31
79	572.29	575.24	577.88	579.36	582.72	581.92	581.67	581.93	581.76	582.04
80	433.74	438.69	436.23	441.84	440.26	441.51	439.36	440.36	438.56	439.57
81	326.51	328.13	327.69	331.03	331.11	331.08	329.35	331.42	329.49	330.77
82	230.66	233.82	231.42	233.97	234.25	234.10	232.47	232.77	232.24	231.30
83	147.89	147.74	148.40	148.26	149.58	148.24	148.37	147.61	146.76	145.33
84	99.83	98.15	100.24	98.01	100.49	96.79	99.50	99.63	90.44	98.24
85	61.24	55.06	61.14	54.44	60.66	52.89	59.87	60.25	50.40	59.06
86	30.03	31.07	30.49	30.54	29.64	29.71	29.11	29.44	32.60	28.61
87	18.62	19.16	18.80	19.18	18.92	19.04	18.72	18.77	21.71	18.63
88	13.22	13.47	13.26	13.31	13.14	13.08	12.89	13.06	12.97	12.92
89	12.03	12.13	12.02	12.11	11.93	11.98	11.85	11.84	11.83	11.83
90	12.52	12.50	12.52	12.51	12.51	12.49	12.49	12.48	12.47	12.46
91	13.33	13.31	13.33	13.33	13.32	13.31	13.31	13.30	13.30	13.28
92	14.18	14.18	14.19	14.19	14.18	14.17	14.16	14.16	14.14	14.14
93	15.09	15.09	15.10	15.10	15.09	15.08	15.08	15.08	15.07	15.06
94	16.04	16.04	16.05	16.04	16.04	16.03	16.03	16.02	16.01	16.01
95	17.03	17.02	17.03	17.03	17.02	17.01	17.01	17.01	17.00	16.99
96	18.04	18.05	18.05	18.06	18.05	18.04	18.05	18.03	18.03	18.02
97	19.11	19.11	19.12	19.11	19.12	19.10	19.11	19.10	19.10	19.08
98	20.20	20.20	20.21	20.21	20.22	20.20	20.21	20.20	20.20	20.19
99	21.33	21.34	21.33	21.34	21.34	21.34	21.32	21.32	21.31	21.31
100	22.49	22.50	22.50	22.50	22.50	22.49	22.50	22.49	22.47	22.48
101	23.70	23.69	23.69	23.70	23.69	23.69	23.68	23.69	23.66	23.68
102	24.89	24.91	24.90	24.92	24.89	24.90	24.88	24.89	24.88	24.88
103	26.12	26.12	26.13	26.13	26.13	26.12	26.12	26.11	26.12	26.10
104	27.39	27.38	27.39	27.39	27.39	27.38	27.39	27.38	27.37	27.37
105	28.68	28.67	28.67	28.67	28.67	28.67	28.67	28.66	28.66	28.65
106	29.98	29.96	29.97	29.96	29.98	29.97	29.96	29.95	29.95	29.94
107	31.29	31.27	31.28	31.28	31.29	31.27	31.28	31.26	31.27	31.25
108	32.61	32.61	32.60	32.62	32.62	32.61	32.60	32.59	32.59	32.58
109	33.95	33.94	33.94	33.94	33.95	33.94	33.93	33.92	33.92	33.91

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110	35.30	35.29	35.30	35.28	35.29	35.28	35.28	35.27	35.27	35.25
111	36.64	36.64	36.64	36.63	36.64	36.62	36.62	36.61	36.62	36.60
112	38.00	37.98	37.98	37.99	37.98	37.97	37.97	37.96	37.96	37.94
113	39.35	39.33	39.34	39.33	39.34	39.33	39.32	39.31	39.31	39.29
114	40.69	40.69	40.69	40.69	40.69	40.67	40.66	40.66	40.65	40.65
115	42.05	42.04	42.04	42.02	42.03	42.02	42.01	42.00	41.99	42.00
116	43.39	43.39	43.39	43.37	43.39	43.35	43.37	43.35	43.35	43.34
117	44.75	44.73	44.73	44.72	44.73	44.71	44.71	44.70	44.69	44.68
118	46.09	46.07	46.07	46.08	46.06	46.06	46.05	46.05	46.03	46.04
119	47.44	47.42	47.42	47.41	47.41	47.40	47.39	47.38	47.37	47.37
120	48.78	48.75	48.76	48.74	48.75	48.73	48.73	48.72	48.72	48.70
121	50.11	50.10	50.09	50.08	50.07	50.06	50.06	50.05	50.05	50.05
122	51.44	51.45	51.43	51.43	51.42	51.41	51.40	51.40	51.38	51.39
123	52.78	52.78	52.77	52.77	52.76	52.75	52.75	52.74	52.74	52.73
124	54.13	54.13	54.12	54.12	54.11	54.10	54.09	54.09	54.08	54.08
125	55.48	55.47	55.47	55.47	55.45	55.44	55.44	55.44	55.43	55.43
126	56.84	56.82	56.83	56.82	56.81	56.80	56.80	56.80	56.80	56.79
127	58.19	58.18	58.18	58.17	58.16	58.16	58.15	58.15	58.14	58.15
128	59.55	59.55	59.53	59.53	59.52	59.52	59.51	59.51	59.50	59.52
129	60.93	60.91	60.90	60.90	60.90	60.89	60.88	60.88	60.88	60.89
130	62.30	62.28	62.28	62.27	62.26	62.24	62.25	62.24	62.25	62.26
131	63.67	63.66	63.67	63.65	63.65	63.63	63.63	63.64	63.64	63.65
132	65.05	65.04	65.04	65.03	65.02	65.01	65.01	65.02	65.02	65.03
133	66.44	66.43	66.42	66.41	66.41	66.39	66.39	66.40	66.41	66.42
134	67.82	67.81	67.79	67.79	67.78	67.77	67.77	67.79	67.80	67.79
135	69.20	69.19	69.18	69.16	69.15	69.14	69.16	69.17	69.18	69.17
136	70.57	70.55	70.56	70.54	70.54	70.51	70.54	70.54	70.55	70.55
137	71.93	71.91	71.92	71.90	71.89	71.87	71.89	71.91	71.90	71.91
138	73.29	73.26	73.27	73.26	73.26	73.23	73.26	73.27	73.26	73.26
139	74.63	74.60	74.61	74.59	74.59	74.56	74.59	74.59	74.59	74.60
140	75.94	75.93	75.93	75.92	75.91	75.89	75.91	75.92	75.91	75.93
141	77.25	77.24	77.23	77.23	77.22	77.20	77.23	77.23	77.23	77.24
142	78.53	78.54	78.52	78.52	78.51	78.50	78.52	78.52	78.52	78.53
143	79.82	79.82	79.80	79.80	79.79	79.78	79.81	79.81	79.81	79.82
144	81.07	81.06	81.06	81.04	81.04	81.02	81.06	81.05	81.06	81.07
145	82.30	82.29	82.30	82.28	82.28	82.26	82.29	82.27	82.29	82.29
146	83.52	83.51	83.49	83.49	83.49	83.47	83.50	83.50	83.50	83.51
147	84.71	84.71	84.70	84.70	84.69	84.69	84.69	84.71	84.70	84.72
148	85.88	85.89	85.88	85.88	85.88	85.86	85.86	85.89	85.87	85.90
149	87.05	87.03	87.04	87.03	87.04	87.01	87.03	87.05	87.04	87.05
150	88.19	88.19	88.18	88.17	88.18	88.16	88.18	88.20	88.18	88.20
151	89.32	89.32	89.30	89.30	89.31	89.28	89.29	89.30	89.31	89.32
152	90.43	90.41	90.41	90.41	90.41	90.39	90.41	90.40	90.39	90.42
153	91.51	91.50	91.49	91.50	91.51	91.49	91.48	91.47	91.48	91.49
154	92.55	92.55	92.55	92.57	92.58	92.56	92.54	92.53	92.53	92.55
155	93.58	93.59	93.60	93.62	93.63	93.60	93.58	93.57	93.58	93.59
156	94.61	94.61	94.63	94.65	94.65	94.64	94.60	94.59	94.61	94.62
157	95.61	95.63	95.65	95.66	95.66	95.66	95.61	95.60	95.61	95.61
158	96.60	96.62	96.63	96.64	96.65	96.63	96.60	96.58	96.59	96.59
159	97.57	97.58	97.58	97.59	97.60	97.59	97.56	97.53	97.55	97.55
160	98.49	98.51	98.52	98.52	98.53	98.52	98.50	98.47	98.46	98.46
161	99.41	99.42	99.42	99.44	99.44	99.42	99.41	99.37	99.37	99.37
162	100.30	100.31	100.31	100.31	100.31	100.30	100.31	100.26	100.25	100.25
163	101.17	101.18	101.17	101.18	101.19	101.17	101.17	101.13	101.12	101.11
164	102.03	102.03	102.02	102.03	102.03	102.02	102.02	101.98	101.95	101.95
165	102.85	102.85	102.84	102.84	102.85	102.83	102.83	102.80	102.76	102.76

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

166	103.64	103.65	103.64	103.65	103.65	103.63	103.62	103.61	103.55	103.55
167	104.44	104.44	104.44	104.45	104.45	104.44	104.41	104.42	104.35	104.35
168	105.22	105.22	105.21	105.22	105.23	105.21	105.20	105.19	105.13	105.12
169	105.96	105.96	105.96	105.96	105.97	105.96	105.94	105.93	105.87	105.85
170	106.65	106.65	106.65	106.65	106.66	106.65	106.63	106.61	106.55	106.54
171	107.26	107.26	107.26	107.27	107.28	107.27	107.25	107.23	107.18	107.15
172	107.79	107.79	107.79	107.80	107.80	107.78	107.78	107.75	107.72	107.68
173	108.29	108.29	108.29	108.30	108.31	108.29	108.28	108.25	108.23	108.18
174	108.77	108.78	108.77	108.78	108.80	108.77	108.76	108.75	108.72	108.66
175	109.17	109.18	109.17	109.17	109.19	109.16	109.16	109.14	109.12	109.06
176	109.52	109.52	109.51	109.52	109.53	109.51	109.50	109.48	109.45	109.40
177	109.82	109.82	109.82	109.82	109.82	109.80	109.79	109.77	109.76	109.71
178	110.07	110.08	110.06	110.07	110.07	110.05	110.03	110.02	110.00	109.97
179	110.27	110.28	110.27	110.27	110.27	110.25	110.22	110.21	110.21	110.17
180	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22

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	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21
1	11319.37	11319.33	11319.19	11318.52	11318.38	11319.18	11319.01	11319.53	11318.85	11319.53
2	11313.39	11313.14	11313.05	11313.22	11312.93	11313.70	11313.67	11313.83	11313.87	11313.83
3	11304.70	11304.30	11304.54	11304.31	11304.19	11304.95	11305.43	11305.55	11305.75	11305.55
4	11292.87	11292.71	11293.04	11293.02	11292.85	11293.85	11294.07	11294.28	11294.68	11294.28
5	11278.43	11278.07	11278.76	11278.60	11278.28	11278.94	11279.38	11279.50	11280.03	11279.50
6	11260.84	11260.68	11260.95	11261.24	11260.91	11261.67	11262.03	11262.07	11262.62	11262.07
7	11240.00	11240.10	11240.15	11240.54	11240.00	11241.12	11241.38	11240.91	11241.33	11240.91
8	11215.70	11215.78	11216.15	11216.60	11216.29	11216.75	11216.65	11216.97	11216.56	11216.97
9	11186.88	11187.25	11188.34	11188.36	11188.06	11188.02	11188.17	11188.95	11189.12	11188.95
10	11154.82	11155.22	11155.39	11155.90	11155.57	11155.81	11156.08	11156.88	11157.13	11156.88
11	11119.21	11119.41	11119.40	11120.42	11120.50	11120.37	11120.04	11120.83	11121.09	11120.83
12	11079.28	11079.51	11079.84	11080.55	11081.03	11080.83	11081.10	11081.95	11081.69	11081.95
13	11036.87	11037.10	11036.98	11038.05	11038.33	11038.38	11038.30	11038.75	11038.87	11038.75
14	10990.57	10991.13	10990.37	10991.87	10992.16	10992.33	10991.88	10992.52	10991.57	10992.52
15	10941.16	10941.05	10940.68	10941.94	10942.30	10942.16	10941.37	10941.88	10941.76	10941.88
16	10888.02	10888.29	10888.01	10889.39	10889.50	10888.97	10888.57	10888.91	10888.78	10888.91
17	10831.77	10831.50	10831.33	10833.03	10832.29	10831.87	10831.64	10831.92	10832.30	10831.92
18	10771.70	10772.17	10771.46	10773.01	10772.01	10771.01	10771.60	10772.39	10772.35	10772.39
19	10708.02	10708.07	10708.06	10709.18	10708.73	10706.57	10708.04	10708.42	10708.98	10708.42
20	10641.08	10641.14	10641.31	10641.68	10640.72	10639.79	10640.59	10641.79	10641.71	10641.79
21	10570.20	10570.01	10571.06	10571.00	10569.66	10568.85	10569.81	10570.82	10570.73	10570.82
22	10496.22	10496.28	10497.62	10498.10	10495.48	10495.48	10495.77	10495.94	10497.37	10495.94
23	10418.17	10419.51	10419.28	10420.88	10418.13	10418.04	10417.84	10418.67	10420.16	10418.67
24	10336.97	10337.67	10338.74	10340.23	10337.78	10337.02	10336.12	10337.83	10339.22	10337.83
25	10252.98	10253.90	10254.60	10255.47	10253.65	10252.87	10252.10	10253.27	10253.94	10253.27
26	10164.93	10164.74	10166.18	10166.98	10165.28	10164.98	10164.57	10164.07	10165.21	10164.07
27	10074.42	10073.97	10074.48	10075.01	10074.32	10073.82	10073.91	10072.94	10072.35	10072.94
28	9980.22	9978.72	9978.99	9979.90	9979.50	9978.61	9979.45	9978.00	9976.89	9978.00
29	9881.23	9880.35	9880.63	9881.02	9880.88	9880.98	9880.55	9879.72	9877.62	9879.72
30	9780.66	9778.43	9777.68	9778.78	9778.19	9780.32	9778.64	9776.97	9775.78	9776.97
31	9675.47	9672.62	9671.95	9672.65	9673.14	9673.98	9673.36	9670.97	9669.88	9670.97
32	9565.83	9564.32	9562.86	9563.99	9563.61	9565.89	9563.47	9561.37	9561.01	9561.37
33	9452.87	9451.77	9450.67	9451.20	9450.42	9453.44	9451.47	9449.57	9448.50	9449.57
34	9336.68	9335.23	9334.10	9334.63	9334.52	9336.76	9336.07	9331.67	9332.75	9331.67
35	9217.30	9216.34	9216.17	9214.03	9214.95	9217.07	9216.55	9213.27	9212.78	9213.27
36	9092.73	9092.36	9090.25	9091.45	9091.49	9093.00	9093.58	9090.52	9089.21	9090.52

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

37	8965.70	8964.69	8965.29	8963.11	8963.52	8965.56	8965.90	8963.79	8961.92	8963.79
38	8833.05	8832.30	8833.11	8833.30	8832.05	8834.23	8836.24	8834.07	8829.12	8834.07
39	8697.61	8696.86	8699.08	8698.20	8697.32	8699.18	8702.64	8700.05	8694.19	8700.05
40	8559.56	8558.50	8560.92	8559.94	8558.19	8560.62	8565.71	8562.95	8555.46	8562.95
41	8416.02	8415.29	8418.71	8416.80	8415.91	8416.73	8423.63	8419.57	8413.92	8419.57
42	8269.58	8270.24	8272.63	8271.31	8268.59	8271.30	8277.00	8274.87	8268.01	8274.87
43	8118.73	8122.15	8122.48	8121.75	8118.37	8121.23	8126.31	8124.54	8119.09	8124.54
44	7966.94	7970.99	7969.88	7968.45	7964.40	7967.07	7971.54	7971.06	7968.28	7971.06
45	7808.95	7815.34	7811.35	7811.44	7808.58	7811.90	7814.80	7815.79	7812.33	7815.79
46	7648.10	7654.85	7650.15	7648.75	7648.26	7650.71	7652.98	7653.30	7653.05	7653.30
47	7485.24	7491.74	7485.95	7484.83	7484.37	7487.71	7488.60	7488.24	7488.33	7488.24
48	7316.74	7321.30	7316.72	7314.81	7314.11	7317.22	7318.83	7317.22	7317.28	7317.22
49	7144.54	7148.35	7142.91	7141.67	7141.36	7145.64	7143.56	7142.43	7142.85	7142.43
50	6967.17	6967.74	6967.41	6962.78	6965.48	6967.65	6966.10	6964.55	6965.20	6964.55
51	6784.00	6786.40	6785.60	6781.01	6780.60	6786.20	6783.24	6783.47	6782.78	6783.47
52	6598.91	6600.65	6599.34	6595.18	6596.76	6599.86	6599.72	6597.83	6598.62	6597.83
53	6409.05	6408.60	6407.86	6405.45	6404.23	6408.85	6407.70	6406.30	6409.36	6406.30
54	6216.98	6213.18	6217.54	6213.71	6212.24	6215.80	6216.12	6215.36	6218.87	6215.36
55	6017.09	6012.96	6020.01	6016.92	6012.70	6017.17	6018.01	6018.16	6020.75	6018.16
56	5814.39	5809.05	5819.57	5818.06	5815.07	5814.30	5821.21	5815.62	5818.41	5815.62
57	5605.72	5606.19	5613.66	5613.08	5612.56	5605.41	5612.16	5609.66	5612.02	5609.66
58	5392.59	5396.73	5400.42	5405.46	5402.35	5394.69	5401.38	5399.60	5398.38	5399.60
59	5175.00	5183.66	5181.82	5191.07	5187.79	5180.97	5182.34	5186.40	5183.48	5186.40
60	4956.50	4965.10	4963.57	4971.63	4968.29	4962.91	4962.11	4969.56	4961.94	4969.56
61	4735.30	4744.50	4737.62	4747.03	4742.36	4736.73	4735.16	4740.37	4732.83	4740.37
62	4499.16	4505.63	4491.45	4499.81	4491.78	4486.21	4486.35	4493.05	4488.52	4493.05
63	4242.77	4245.29	4230.85	4234.83	4226.03	4221.26	4223.29	4232.62	4234.04	4232.62
64	3982.33	3984.22	3969.76	3969.86	3968.58	3969.83	3970.56	3976.83	3978.46	3976.83
65	3727.50	3729.59	3720.14	3718.18	3720.17	3722.20	3724.65	3729.41	3726.14	3729.41
66	3482.44	3482.30	3477.77	3476.66	3478.46	3477.34	3485.00	3484.14	3484.89	3484.14
67	3238.79	3238.71	3238.89	3234.10	3232.83	3234.54	3237.03	3237.05	3244.21	3237.05
68	2984.90	2999.14	2984.43	2993.61	2974.85	2978.84	2979.30	2980.28	2992.56	2980.28
69	2723.39	2727.90	2719.59	2725.01	2711.44	2711.14	2714.52	2722.06	2733.03	2722.06
70	2466.28	2468.14	2459.85	2461.05	2458.32	2451.71	2457.34	2471.44	2468.27	2471.44
71	2225.50	2224.13	2216.11	2221.24	2219.41	2213.66	2217.16	2223.26	2223.87	2223.26
72	1994.11	1994.42	1985.58	1981.19	1981.66	1975.99	1978.25	1981.82	1985.40	1981.82
73	1752.68	1747.89	1743.31	1738.65	1734.00	1736.52	1739.55	1741.94	1751.22	1741.94
74	1526.73	1521.00	1521.12	1520.15	1511.80	1515.15	1516.06	1522.66	1523.88	1522.66
75	1314.91	1312.01	1309.15	1307.47	1301.63	1305.34	1304.39	1309.35	1308.29	1309.35
76	1113.92	1111.15	1108.86	1107.16	1105.03	1107.94	1107.95	1112.56	1104.02	1112.56
77	924.75	920.50	921.90	918.45	915.11	916.33	916.52	918.76	914.75	918.76
78	737.73	738.12	736.05	733.77	733.84	734.50	731.95	732.97	735.16	732.97
79	580.12	576.35	574.15	570.34	570.89	572.46	572.52	572.76	572.29	572.76
80	440.08	436.13	432.71	433.34	429.86	433.88	433.23	433.74	433.74	433.74
81	329.69	326.74	324.90	324.47	322.04	324.01	325.02	325.14	326.51	325.14
82	230.45	229.53	228.86	228.52	227.90	229.52	228.54	230.87	230.66	230.87
83	144.43	144.40	144.58	143.97	144.78	145.84	145.77	147.37	147.89	147.37
84	97.12	97.00	97.55	97.00	98.22	94.67	98.86	97.18	99.83	97.18
85	58.22	57.87	58.66	58.43	59.03	51.29	59.84	54.01	61.24	54.01
86	28.29	28.17	28.48	28.70	28.77	29.15	29.41	30.30	30.03	30.30
87	18.55	18.46	18.56	18.42	18.26	18.42	18.22	18.77	18.62	18.77
88	12.99	12.99	13.00	13.04	12.96	13.04	12.98	13.28	13.22	13.28
89	11.86	11.87	11.87	11.86	11.86	11.90	11.88	12.11	12.03	12.11
90	12.52	12.51	12.51	12.49	12.50	12.47	12.50	12.48	12.52	12.48
91	13.35	13.34	13.33	13.32	13.33	13.31	13.33	13.31	13.33	13.31
92	14.20	14.19	14.19	14.17	14.17	14.16	14.18	14.17	14.18	14.17

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

93	15.11	15.10	15.10	15.08	15.09	15.08	15.09	15.08	15.09	15.08
94	16.06	16.05	16.04	16.02	16.03	16.02	16.04	16.02	16.04	16.02
95	17.04	17.03	17.03	17.01	17.02	17.01	17.02	17.01	17.03	17.01
96	18.07	18.06	18.06	18.04	18.04	18.03	18.04	18.03	18.04	18.03
97	19.13	19.11	19.12	19.10	19.10	19.10	19.10	19.10	19.11	19.10
98	20.23	20.22	20.22	20.20	20.20	20.19	20.20	20.19	20.20	20.19
99	21.35	21.33	21.33	21.33	21.32	21.32	21.33	21.33	21.33	21.33
100	22.51	22.50	22.50	22.48	22.49	22.48	22.49	22.49	22.49	22.49
101	23.70	23.70	23.68	23.69	23.68	23.68	23.69	23.69	23.70	23.69
102	24.90	24.92	24.88	24.91	24.87	24.90	24.88	24.90	24.89	24.90
103	26.14	26.14	26.13	26.12	26.12	26.12	26.12	26.12	26.12	26.12
104	27.40	27.38	27.40	27.38	27.37	27.37	27.38	27.38	27.39	27.38
105	28.68	28.67	28.68	28.66	28.65	28.66	28.66	28.66	28.68	28.66
106	29.98	29.96	29.97	29.95	29.96	29.95	29.95	29.95	29.98	29.95
107	31.30	31.28	31.29	31.27	31.28	31.27	31.28	31.27	31.29	31.27
108	32.62	32.61	32.61	32.60	32.60	32.59	32.61	32.60	32.61	32.60
109	33.95	33.94	33.94	33.93	33.93	33.92	33.93	33.93	33.95	33.93
110	35.30	35.27	35.30	35.27	35.28	35.28	35.28	35.28	35.30	35.28
111	36.64	36.62	36.64	36.62	36.63	36.63	36.62	36.63	36.64	36.63
112	37.99	37.98	37.98	37.98	37.98	37.97	37.98	37.98	38.00	37.98
113	39.34	39.33	39.35	39.33	39.33	39.33	39.33	39.33	39.35	39.33
114	40.69	40.68	40.68	40.68	40.68	40.68	40.69	40.68	40.69	40.68
115	42.03	42.03	42.03	42.02	42.03	42.03	42.03	42.04	42.05	42.04
116	43.39	43.37	43.39	43.37	43.38	43.39	43.39	43.39	43.39	43.39
117	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.75	44.73
118	46.07	46.07	46.08	46.08	46.07	46.08	46.08	46.08	46.09	46.08
119	47.42	47.42	47.42	47.42	47.42	47.42	47.42	47.42	47.44	47.42
120	48.76	48.75	48.76	48.75	48.77	48.75	48.77	48.75	48.78	48.75
121	50.09	50.08	50.09	50.10	50.10	50.09	50.10	50.10	50.11	50.10
122	51.43	51.43	51.44	51.44	51.44	51.44	51.44	51.44	51.44	51.44
123	52.78	52.78	52.79	52.78	52.79	52.79	52.78	52.78	52.78	52.78
124	54.13	54.12	54.13	54.14	54.14	54.12	54.13	54.13	54.13	54.13
125	55.48	55.48	55.48	55.48	55.49	55.48	55.48	55.48	55.48	55.48
126	56.84	56.83	56.85	56.84	56.85	56.84	56.85	56.83	56.84	56.83
127	58.20	58.20	58.20	58.20	58.21	58.20	58.20	58.19	58.19	58.19
128	59.56	59.56	59.56	59.56	59.57	59.56	59.56	59.56	59.55	59.56
129	60.94	60.92	60.94	60.93	60.94	60.93	60.93	60.92	60.93	60.92
130	62.32	62.30	62.31	62.30	62.32	62.30	62.30	62.29	62.30	62.29
131	63.69	63.68	63.69	63.69	63.69	63.68	63.69	63.67	63.67	63.67
132	65.08	65.06	65.08	65.07	65.08	65.08	65.07	65.05	65.05	65.05
133	66.46	66.45	66.46	66.45	66.47	66.43	66.46	66.43	66.44	66.43
134	67.83	67.83	67.83	67.83	67.83	67.82	67.82	67.82	67.82	67.82
135	69.21	69.21	69.22	69.20	69.21	69.20	69.19	69.19	69.20	69.19
136	70.59	70.58	70.59	70.58	70.60	70.56	70.58	70.56	70.57	70.56
137	71.95	71.94	71.95	71.94	71.94	71.92	71.94	71.92	71.93	71.92
138	73.30	73.30	73.30	73.30	73.29	73.29	73.29	73.28	73.29	73.28
139	74.65	74.64	74.64	74.63	74.63	74.61	74.62	74.61	74.63	74.61
140	75.98	75.96	75.98	75.95	75.96	75.94	75.95	75.93	75.94	75.93
141	77.29	77.28	77.29	77.27	77.27	77.25	77.25	77.25	77.25	77.25
142	78.58	78.58	78.59	78.57	78.56	78.54	78.55	78.54	78.53	78.54
143	79.87	79.86	79.87	79.86	79.83	79.83	79.82	79.82	79.82	79.82
144	81.12	81.11	81.13	81.11	81.10	81.08	81.07	81.07	81.07	81.07
145	82.36	82.34	82.36	82.34	82.34	82.32	82.32	82.31	82.30	82.31
146	83.58	83.57	83.57	83.56	83.56	83.54	83.52	83.52	83.52	83.52
147	84.76	84.75	84.77	84.76	84.75	84.74	84.72	84.70	84.71	84.70
148	85.93	85.93	85.93	85.93	85.93	85.92	85.91	85.90	85.88	85.90

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

149	87.08	87.08	87.09	87.08	87.09	87.08	87.07	87.05	87.05	87.05
150	88.21	88.22	88.23	88.22	88.22	88.22	88.21	88.20	88.19	88.20
151	89.33	89.33	89.34	89.33	89.33	89.32	89.32	89.32	89.32	89.32
152	90.42	90.42	90.43	90.43	90.43	90.42	90.42	90.42	90.43	90.42
153	91.50	91.51	91.50	91.50	91.51	91.50	91.50	91.50	91.51	91.50
154	92.56	92.56	92.56	92.55	92.55	92.55	92.54	92.56	92.55	92.56
155	93.60	93.59	93.60	93.59	93.59	93.58	93.58	93.59	93.58	93.59
156	94.62	94.61	94.62	94.62	94.62	94.60	94.60	94.60	94.61	94.60
157	95.62	95.61	95.63	95.62	95.62	95.61	95.61	95.61	95.61	95.61
158	96.60	96.59	96.60	96.60	96.60	96.58	96.59	96.58	96.60	96.58
159	97.55	97.54	97.55	97.54	97.56	97.55	97.53	97.54	97.57	97.54
160	98.47	98.47	98.47	98.47	98.47	98.48	98.46	98.48	98.49	98.48
161	99.38	99.36	99.38	99.37	99.37	99.38	99.38	99.38	99.41	99.38
162	100.26	100.25	100.26	100.25	100.26	100.26	100.26	100.27	100.30	100.27
163	101.12	101.11	101.11	101.11	101.12	101.13	101.12	101.16	101.17	101.16
164	101.97	101.96	101.95	101.96	101.96	101.97	101.98	102.01	102.03	102.01
165	102.78	102.77	102.77	102.78	102.78	102.78	102.80	102.84	102.85	102.84
166	103.57	103.56	103.58	103.58	103.57	103.58	103.60	103.64	103.64	103.64
167	104.38	104.37	104.37	104.37	104.38	104.39	104.41	104.44	104.44	104.44
168	105.15	105.14	105.15	105.15	105.16	105.17	105.19	105.21	105.22	105.21
169	105.88	105.88	105.88	105.89	105.90	105.92	105.93	105.95	105.96	105.95
170	106.57	106.57	106.59	106.59	106.59	106.62	106.62	106.64	106.65	106.64
171	107.19	107.19	107.20	107.20	107.21	107.24	107.25	107.26	107.26	107.26
172	107.72	107.72	107.73	107.73	107.75	107.78	107.78	107.79	107.79	107.79
173	108.23	108.23	108.24	108.24	108.26	108.30	108.30	108.30	108.29	108.30
174	108.72	108.71	108.72	108.73	108.75	108.78	108.78	108.78	108.77	108.78
175	109.11	109.11	109.11	109.13	109.15	109.19	109.18	109.18	109.17	109.18
176	109.45	109.45	109.47	109.49	109.50	109.54	109.53	109.53	109.52	109.53
177	109.75	109.75	109.77	109.79	109.81	109.84	109.83	109.83	109.82	109.83
178	110.01	110.01	110.03	110.05	110.07	110.09	110.08	110.08	110.07	110.08
179	110.20	110.21	110.23	110.26	110.27	110.28	110.27	110.28	110.27	110.28
180	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22

**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	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21
1	11319.01	11319.18	11318.38	11318.52	11319.19	11319.33	11319.37	11319.81	11319.54	11319.76
2	11313.67	11313.70	11312.93	11313.22	11313.05	11313.14	11313.39	11313.79	11313.75	11313.97
3	11305.43	11304.95	11304.19	11304.31	11304.54	11304.30	11304.70	11305.39	11305.16	11305.45
4	11294.07	11293.85	11292.85	11293.02	11293.04	11292.71	11292.87	11293.95	11293.66	11294.07
5	11279.38	11278.94	11278.28	11278.60	11278.76	11278.07	11278.43	11279.29	11279.12	11279.22
6	11262.03	11261.67	11260.91	11261.24	11260.95	11260.68	11260.84	11260.87	11260.46	11261.35
7	11241.38	11241.12	11240.00	11240.54	11240.15	11240.10	11240.00	11239.83	11239.53	11240.22
8	11216.65	11216.75	11216.29	11216.60	11216.15	11215.78	11215.70	11215.51	11214.72	11215.43
9	11188.17	11188.02	11188.06	11188.36	11188.34	11187.25	11186.88	11187.10	11186.26	11186.50
10	11156.08	11155.81	11155.57	11155.90	11155.39	11155.22	11154.82	11155.19	11154.44	11155.18
11	11120.04	11120.37	11120.50	11120.42	11119.40	11119.41	11119.21	11119.65	11118.69	11118.91
12	11081.10	11080.83	11081.03	11080.55	11079.84	11079.51	11079.28	11080.12	11079.70	11079.56
13	11038.30	11038.38	11038.33	11038.05	11036.98	11037.10	11036.87	11038.11	11037.28	11036.03
14	10991.88	10992.33	10992.16	10991.87	10990.37	10991.13	10990.57	10991.79	10990.70	10990.21
15	10941.37	10942.16	10942.30	10941.94	10940.68	10941.05	10941.16	10941.76	10940.80	10939.71
16	10888.57	10888.97	10889.50	10889.39	10888.01	10888.29	10888.02	10888.86	10887.18	10886.83
17	10831.64	10831.87	10832.29	10833.03	10831.33	10831.50	10831.77	10832.53	10830.89	10830.45
18	10771.60	10771.01	10772.01	10773.01	10771.46	10772.17	10771.70	10772.55	10770.93	10771.21
19	10708.04	10706.57	10708.73	10709.18	10708.06	10708.07	10708.02	10709.22	10708.95	10707.46



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

20	10640.59	10639.79	10640.72	10641.68	10641.31	10641.14	10641.08	10643.08	10642.15	10640.37
21	10569.81	10568.85	10569.66	10571.00	10571.06	10570.01	10570.20	10572.84	10572.13	10570.20
22	10495.77	10495.48	10495.48	10498.10	10497.62	10496.28	10496.22	10498.79	10498.01	10495.71
23	10417.84	10418.04	10418.13	10420.88	10419.28	10419.51	10418.17	10421.12	10419.89	10418.39
24	10336.12	10337.02	10337.78	10340.23	10338.74	10337.67	10336.97	10340.70	10338.48	10337.49
25	10252.10	10252.87	10253.65	10255.47	10254.60	10253.90	10252.98	10256.10	10253.31	10251.42
26	10164.57	10164.98	10165.28	10166.98	10166.18	10164.74	10164.93	10168.29	10164.44	10162.66
27	10073.91	10073.82	10074.32	10075.01	10074.48	10073.97	10074.42	10076.99	10072.41	10071.17
28	9979.45	9978.61	9979.50	9979.90	9978.99	9978.72	9980.22	9982.82	9977.75	9975.90
29	9880.55	9880.98	9880.88	9881.02	9880.63	9880.35	9881.23	9884.82	9879.24	9878.58
30	9778.64	9780.32	9778.19	9778.78	9777.68	9778.43	9780.66	9784.23	9778.30	9776.78
31	9673.36	9673.98	9673.14	9672.65	9671.95	9672.62	9675.47	9677.05	9672.22	9671.53
32	9563.47	9565.89	9563.61	9563.99	9562.86	9564.32	9565.83	9567.68	9562.51	9563.10
33	9451.47	9453.44	9450.42	9451.20	9450.67	9451.77	9452.87	9454.61	9448.63	9451.67
34	9336.07	9336.76	9334.52	9334.63	9334.10	9335.23	9336.68	9337.59	9333.11	9336.21
35	9216.55	9217.07	9214.95	9214.03	9216.17	9216.34	9217.30	9216.63	9213.16	9217.37
36	9093.58	9093.00	9091.49	9091.45	9090.25	9092.36	9092.73	9092.55	9089.68	9093.77
37	8965.90	8965.56	8963.52	8963.11	8965.29	8964.69	8965.70	8963.87	8963.23	8965.36
38	8836.24	8834.23	8832.05	8833.30	8833.11	8832.30	8833.05	8832.52	8831.77	8834.15
39	8702.64	8699.18	8697.32	8698.20	8699.08	8696.86	8697.61	8697.20	8696.50	8699.38
40	8565.71	8560.62	8558.19	8559.94	8560.92	8558.50	8559.56	8559.02	8557.54	8560.49
41	8423.63	8416.73	8415.91	8416.80	8418.71	8415.29	8416.02	8415.30	8414.43	8418.15
42	8277.00	8271.30	8268.59	8271.31	8272.63	8270.24	8269.58	8268.80	8268.50	8273.38
43	8126.31	8121.23	8118.37	8121.75	8122.48	8122.15	8118.73	8119.20	8119.72	8123.31
44	7971.54	7967.07	7964.40	7968.45	7969.88	7970.99	7966.94	7963.44	7966.26	7969.82
45	7814.80	7811.90	7808.58	7811.44	7811.35	7815.34	7808.95	7806.78	7809.31	7813.72
46	7652.98	7650.71	7648.26	7648.75	7650.15	7654.85	7648.10	7644.15	7650.28	7652.26
47	7488.60	7487.71	7484.37	7484.83	7485.95	7491.74	7485.24	7479.17	7485.72	7487.28
48	7318.83	7317.22	7314.11	7314.81	7316.72	7321.30	7316.74	7311.81	7317.14	7317.06
49	7143.56	7145.64	7141.36	7141.67	7142.91	7148.35	7144.54	7140.88	7144.07	7144.63
50	6966.10	6967.65	6965.48	6962.78	6967.41	6967.74	6967.17	6965.45	6969.05	6967.08
51	6783.24	6786.20	6780.60	6781.01	6785.60	6786.40	6784.00	6783.59	6786.65	6785.53
52	6599.72	6599.86	6596.76	6595.18	6599.34	6600.65	6598.91	6600.54	6600.62	6600.89
53	6407.70	6408.85	6404.23	6405.45	6407.86	6408.60	6409.05	6412.86	6411.52	6409.63
54	6216.12	6215.80	6212.24	6213.71	6217.54	6213.18	6216.98	6216.65	6219.72	6216.85
55	6018.01	6017.17	6012.70	6016.92	6020.01	6012.96	6017.09	6017.44	6025.34	6016.78
56	5821.21	5814.30	5815.07	5818.06	5819.57	5809.05	5814.39	5814.02	5822.93	5813.56
57	5612.16	5605.41	5612.56	5613.08	5613.66	5606.19	5605.72	5606.48	5616.61	5609.35
58	5401.38	5394.69	5402.35	5405.46	5400.42	5396.73	5392.59	5394.07	5405.19	5398.56
59	5182.34	5180.97	5187.79	5191.07	5181.82	5183.66	5175.00	5178.92	5185.72	5186.97
60	4962.11	4962.91	4968.29	4971.63	4963.57	4965.10	4956.50	4958.25	4966.36	4969.48
61	4735.16	4736.73	4742.36	4747.03	4737.62	4744.50	4735.30	4736.03	4739.90	4741.28
62	4486.35	4486.21	4491.78	4499.81	4491.45	4505.63	4499.16	4499.37	4499.30	4501.90
63	4223.29	4221.26	4226.03	4234.83	4230.85	4245.29	4242.77	4244.41	4242.80	4247.59
64	3970.56	3969.83	3968.58	3969.86	3969.76	3984.22	3982.33	3987.39	3980.82	3987.30
65	3724.65	3722.20	3720.17	3718.18	3720.14	3729.59	3727.50	3734.93	3725.93	3730.90
66	3485.00	3477.34	3478.46	3476.66	3477.77	3482.30	3482.44	3489.31	3482.54	3483.30
67	3237.03	3234.54	3232.83	3234.10	3238.89	3238.71	3238.79	3243.09	3239.60	3239.54
68	2979.30	2978.84	2974.85	2993.61	2984.43	2999.14	2984.90	2998.70	2994.37	2992.69
69	2714.52	2711.14	2711.44	2725.01	2719.59	2727.90	2723.39	2733.14	2737.57	2730.19
70	2457.34	2451.71	2458.32	2461.05	2459.85	2468.14	2466.28	2469.69	2480.14	2477.21
71	2217.16	2213.66	2219.41	2221.24	2216.11	2224.13	2225.50	2224.44	2227.51	2227.07
72	1978.25	1975.99	1981.66	1981.19	1985.58	1994.42	1994.11	1992.74	1996.80	1992.27
73	1739.55	1736.52	1734.00	1738.65	1743.31	1747.89	1752.68	1751.11	1751.11	1749.73
74	1516.06	1515.15	1511.80	1520.15	1521.12	1521.00	1526.73	1526.60	1526.26	1522.80
75	1304.39	1305.34	1301.63	1307.47	1309.15	1312.01	1314.91	1319.16	1316.61	1316.92

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

76	1107.95	1107.94	1105.03	1107.16	1108.86	1111.15	1113.92	1117.51	1119.97	1116.74
77	916.52	916.33	915.11	918.45	921.90	920.50	924.75	926.71	931.80	931.15
78	731.95	734.50	733.84	733.77	736.05	738.12	737.73	744.31	744.45	746.33
79	572.52	572.46	570.89	570.34	574.15	576.35	580.12	582.04	581.76	581.93
80	433.23	433.88	429.86	433.34	432.71	436.13	440.08	439.57	438.56	440.36
81	325.02	324.01	322.04	324.47	324.90	326.74	329.69	330.77	329.49	331.42
82	228.54	229.52	227.90	228.52	228.86	229.53	230.45	231.30	232.24	232.77
83	145.77	145.84	144.78	143.97	144.58	144.40	144.43	145.33	146.76	147.61
84	98.86	94.67	98.22	97.00	97.55	97.00	97.12	98.24	90.44	99.63
85	59.84	51.29	59.03	58.43	58.66	57.87	58.22	59.06	50.40	60.25
86	29.41	29.15	28.77	28.70	28.48	28.17	28.29	28.61	32.60	29.44
87	18.22	18.42	18.26	18.42	18.56	18.46	18.55	18.63	21.71	18.77
88	12.98	13.04	12.96	13.04	13.00	12.99	12.99	12.92	12.97	13.06
89	11.88	11.90	11.86	11.86	11.87	11.87	11.86	11.83	11.83	11.84
90	12.50	12.47	12.50	12.49	12.51	12.51	12.52	12.46	12.47	12.48
91	13.33	13.31	13.33	13.32	13.33	13.34	13.35	13.28	13.30	13.30
92	14.18	14.16	14.17	14.17	14.19	14.19	14.20	14.14	14.14	14.16
93	15.09	15.08	15.09	15.08	15.10	15.10	15.11	15.06	15.07	15.08
94	16.04	16.02	16.03	16.02	16.04	16.05	16.06	16.01	16.01	16.02
95	17.02	17.01	17.02	17.01	17.03	17.03	17.04	16.99	17.00	17.01
96	18.04	18.03	18.04	18.04	18.06	18.06	18.07	18.02	18.03	18.03
97	19.10	19.10	19.10	19.10	19.12	19.11	19.13	19.08	19.10	19.10
98	20.20	20.19	20.20	20.20	20.22	20.22	20.23	20.19	20.20	20.20
99	21.33	21.32	21.32	21.33	21.33	21.33	21.35	21.31	21.31	21.32
100	22.49	22.48	22.49	22.48	22.50	22.50	22.51	22.48	22.47	22.49
101	23.69	23.68	23.68	23.69	23.68	23.70	23.70	23.68	23.66	23.69
102	24.88	24.90	24.87	24.91	24.88	24.92	24.90	24.88	24.88	24.89
103	26.12	26.12	26.12	26.12	26.13	26.14	26.14	26.10	26.12	26.11
104	27.38	27.37	27.37	27.38	27.40	27.38	27.40	27.37	27.37	27.38
105	28.66	28.66	28.65	28.66	28.68	28.67	28.68	28.65	28.66	28.66
106	29.95	29.95	29.96	29.95	29.97	29.96	29.98	29.94	29.95	29.95
107	31.28	31.27	31.28	31.27	31.29	31.28	31.30	31.25	31.27	31.26
108	32.61	32.59	32.60	32.60	32.61	32.61	32.62	32.58	32.59	32.59
109	33.93	33.92	33.93	33.93	33.94	33.94	33.95	33.91	33.92	33.92
110	35.28	35.28	35.28	35.27	35.30	35.27	35.30	35.25	35.27	35.27
111	36.62	36.63	36.63	36.62	36.64	36.62	36.64	36.60	36.62	36.61
112	37.98	37.97	37.98	37.98	37.98	37.98	37.99	37.94	37.96	37.96
113	39.33	39.33	39.33	39.33	39.35	39.33	39.34	39.29	39.31	39.31
114	40.69	40.68	40.68	40.68	40.68	40.68	40.69	40.65	40.65	40.66
115	42.03	42.03	42.03	42.02	42.03	42.03	42.03	42.00	41.99	42.00
116	43.39	43.39	43.38	43.37	43.39	43.37	43.39	43.34	43.35	43.35
117	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.68	44.69	44.70
118	46.08	46.08	46.07	46.08	46.08	46.07	46.07	46.04	46.03	46.05
119	47.42	47.42	47.42	47.42	47.42	47.42	47.42	47.37	47.37	47.38
120	48.77	48.75	48.77	48.75	48.76	48.75	48.76	48.70	48.72	48.72
121	50.10	50.09	50.10	50.10	50.09	50.08	50.09	50.05	50.05	50.05
122	51.44	51.44	51.44	51.44	51.44	51.43	51.43	51.39	51.38	51.40
123	52.78	52.79	52.79	52.78	52.79	52.78	52.78	52.73	52.74	52.74
124	54.13	54.12	54.14	54.14	54.13	54.12	54.13	54.08	54.08	54.09
125	55.48	55.48	55.49	55.48	55.48	55.48	55.48	55.43	55.43	55.44
126	56.85	56.84	56.85	56.84	56.85	56.83	56.84	56.79	56.80	56.80
127	58.20	58.20	58.21	58.20	58.20	58.20	58.20	58.15	58.14	58.15
128	59.56	59.56	59.57	59.56	59.56	59.56	59.56	59.52	59.50	59.51
129	60.93	60.93	60.94	60.93	60.94	60.92	60.94	60.89	60.88	60.88
130	62.30	62.30	62.32	62.30	62.31	62.30	62.32	62.26	62.25	62.24
131	63.69	63.68	63.69	63.69	63.69	63.68	63.69	63.65	63.64	63.64

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

132	65.07	65.08	65.08	65.07	65.08	65.06	65.08	65.03	65.02	65.02
133	66.46	66.43	66.47	66.45	66.46	66.45	66.46	66.42	66.41	66.40
134	67.82	67.82	67.83	67.83	67.83	67.83	67.83	67.79	67.80	67.79
135	69.19	69.20	69.21	69.20	69.22	69.21	69.21	69.17	69.18	69.17
136	70.58	70.56	70.60	70.58	70.59	70.58	70.59	70.55	70.55	70.54
137	71.94	71.92	71.94	71.94	71.95	71.94	71.95	71.91	71.90	71.91
138	73.29	73.29	73.29	73.30	73.30	73.30	73.30	73.26	73.26	73.27
139	74.62	74.61	74.63	74.63	74.64	74.64	74.65	74.60	74.59	74.59
140	75.95	75.94	75.96	75.95	75.98	75.96	75.98	75.93	75.91	75.92
141	77.25	77.25	77.27	77.27	77.29	77.28	77.29	77.24	77.23	77.23
142	78.55	78.54	78.56	78.57	78.59	78.58	78.58	78.53	78.52	78.52
143	79.82	79.83	79.83	79.86	79.87	79.86	79.87	79.82	79.81	79.81
144	81.07	81.08	81.10	81.11	81.13	81.11	81.12	81.07	81.06	81.05
145	82.32	82.32	82.34	82.34	82.36	82.34	82.36	82.29	82.29	82.27
146	83.52	83.54	83.56	83.56	83.57	83.57	83.58	83.51	83.50	83.50
147	84.72	84.74	84.75	84.76	84.77	84.75	84.76	84.72	84.70	84.71
148	85.91	85.92	85.93	85.93	85.93	85.93	85.93	85.90	85.87	85.89
149	87.07	87.08	87.09	87.08	87.09	87.08	87.08	87.05	87.04	87.05
150	88.21	88.22	88.22	88.22	88.23	88.22	88.21	88.20	88.18	88.20
151	89.32	89.32	89.33	89.33	89.34	89.33	89.33	89.32	89.31	89.30
152	90.42	90.42	90.43	90.43	90.43	90.42	90.42	90.42	90.39	90.40
153	91.50	91.50	91.51	91.50	91.50	91.51	91.50	91.49	91.48	91.47
154	92.54	92.55	92.55	92.55	92.56	92.56	92.56	92.55	92.53	92.53
155	93.58	93.58	93.59	93.59	93.60	93.59	93.60	93.59	93.58	93.57
156	94.60	94.60	94.62	94.62	94.62	94.61	94.62	94.62	94.61	94.59
157	95.61	95.61	95.62	95.62	95.63	95.61	95.62	95.61	95.61	95.60
158	96.59	96.58	96.60	96.60	96.60	96.59	96.60	96.59	96.59	96.58
159	97.53	97.55	97.56	97.54	97.55	97.54	97.55	97.55	97.55	97.53
160	98.46	98.48	98.47	98.47	98.47	98.47	98.47	98.46	98.46	98.47
161	99.38	99.38	99.37	99.37	99.38	99.36	99.38	99.37	99.37	99.37
162	100.26	100.26	100.26	100.25	100.26	100.25	100.26	100.25	100.25	100.26
163	101.12	101.13	101.12	101.11	101.11	101.11	101.12	101.11	101.12	101.13
164	101.98	101.97	101.96	101.96	101.95	101.96	101.97	101.95	101.95	101.98
165	102.80	102.78	102.78	102.78	102.77	102.77	102.78	102.76	102.76	102.80
166	103.60	103.58	103.57	103.58	103.58	103.56	103.57	103.55	103.55	103.61
167	104.41	104.39	104.38	104.37	104.37	104.37	104.38	104.35	104.35	104.42
168	105.19	105.17	105.16	105.15	105.15	105.14	105.15	105.12	105.13	105.19
169	105.93	105.92	105.90	105.89	105.88	105.88	105.88	105.85	105.87	105.93
170	106.62	106.62	106.59	106.59	106.59	106.57	106.57	106.54	106.55	106.61
171	107.25	107.24	107.21	107.20	107.20	107.19	107.19	107.15	107.18	107.23
172	107.78	107.78	107.75	107.73	107.73	107.72	107.72	107.68	107.72	107.75
173	108.30	108.30	108.26	108.24	108.24	108.23	108.23	108.18	108.23	108.25
174	108.78	108.78	108.75	108.73	108.72	108.71	108.72	108.66	108.72	108.75
175	109.18	109.19	109.15	109.13	109.11	109.11	109.11	109.06	109.12	109.14
176	109.53	109.54	109.50	109.49	109.47	109.45	109.45	109.40	109.45	109.48
177	109.83	109.84	109.81	109.79	109.77	109.75	109.75	109.71	109.76	109.77
178	110.08	110.09	110.07	110.05	110.03	110.01	110.01	109.97	110.00	110.02
179	110.27	110.28	110.27	110.26	110.23	110.21	110.20	110.17	110.21	110.21
180	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22	110.22

**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	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21	11321.21
1	11319.55	11319.57	11320.56	11319.97	11319.12	11319.39	11318.85
2	11314.71	11314.47	11315.64	11315.05	11314.26	11314.45	11313.87

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

3	11305.98	11305.82	11306.78	11306.51	11305.66	11305.91	11305.75
4	11294.22	11294.38	11295.81	11295.12	11294.40	11294.15	11294.68
5	11280.02	11279.78	11281.74	11281.23	11280.76	11280.53	11280.03
6	11261.48	11262.13	11264.17	11263.88	11262.57	11262.98	11262.62
7	11239.77	11240.77	11242.71	11243.25	11241.59	11242.05	11241.33
8	11215.04	11215.70	11217.78	11218.08	11217.40	11217.77	11216.56
9	11186.62	11186.66	11188.66	11188.96	11188.99	11189.42	11189.12
10	11154.01	11154.46	11156.59	11156.99	11156.25	11156.65	11157.13
11	11118.33	11118.44	11120.59	11121.37	11120.62	11121.38	11121.09
12	11079.34	11078.95	11081.16	11082.08	11081.69	11081.70	11081.69
13	11036.52	11036.08	11038.07	11039.02	11038.72	11038.92	11038.87
14	10989.80	10990.31	10992.16	10992.41	10992.47	10992.90	10991.57
15	10940.02	10939.46	10941.87	10942.10	10942.98	10943.71	10941.76
16	10886.85	10886.40	10889.28	10888.69	10889.53	10890.54	10888.78
17	10829.82	10830.08	10832.18	10831.98	10832.20	10834.06	10832.30
18	10769.90	10769.14	10771.07	10771.91	10772.28	10773.82	10772.35
19	10706.37	10705.27	10707.23	10708.31	10708.25	10710.34	10708.98
20	10639.32	10638.60	10640.43	10640.68	10640.69	10642.12	10641.71
21	10569.14	10568.39	10570.02	10570.02	10570.19	10571.80	10570.73
22	10495.60	10495.86	10496.32	10496.21	10495.71	10497.12	10497.37
23	10418.07	10417.61	10418.12	10418.40	10417.55	10419.70	10420.16
24	10337.56	10336.31	10338.07	10337.32	10336.38	10338.15	10339.22
25	10253.45	10251.75	10253.03	10251.61	10251.49	10253.37	10253.94
26	10164.84	10164.87	10165.15	10162.95	10162.43	10164.15	10165.21
27	10073.80	10072.56	10073.26	10071.57	10070.18	10071.84	10072.35
28	9978.63	9978.26	9979.92	9975.36	9976.02	9976.31	9976.89
29	9881.24	9880.44	9880.94	9876.82	9876.86	9878.10	9877.62
30	9780.49	9778.81	9778.43	9775.04	9775.13	9776.95	9775.78
31	9675.07	9674.26	9673.15	9669.47	9669.54	9671.58	9669.88
32	9566.06	9565.74	9562.72	9560.06	9560.93	9563.46	9561.01
33	9453.89	9454.23	9450.86	9449.41	9448.84	9451.16	9448.50
34	9339.71	9337.99	9336.05	9333.96	9332.82	9335.33	9332.75
35	9220.94	9218.59	9217.55	9214.64	9214.75	9216.26	9212.78
36	9096.76	9095.34	9095.89	9093.48	9092.21	9094.13	9089.21
37	8969.14	8967.76	8968.89	8965.99	8965.78	8967.16	8961.92
38	8836.97	8835.60	8839.89	8835.49	8834.71	8834.80	8829.12
39	8700.70	8700.79	8705.00	8700.98	8699.92	8700.24	8694.19
40	8561.50	8561.67	8568.85	8563.40	8560.35	8560.86	8555.46
41	8418.40	8417.87	8424.80	8420.23	8417.59	8417.72	8413.92
42	8273.56	8271.80	8276.71	8276.53	8271.86	8270.85	8268.01
43	8124.09	8122.25	8126.62	8126.55	8121.16	8120.54	8119.09
44	7971.81	7969.42	7973.45	7972.88	7968.58	7966.43	7968.28
45	7816.94	7812.74	7815.04	7816.28	7812.68	7810.66	7812.33
46	7655.78	7651.20	7649.82	7654.04	7651.89	7649.58	7653.05
47	7490.86	7486.16	7483.76	7487.61	7488.80	7485.43	7488.33
48	7320.84	7315.50	7313.49	7316.68	7317.08	7316.98	7317.28
49	7145.72	7141.36	7139.74	7143.43	7143.83	7143.71	7142.85
50	6968.13	6962.92	6964.02	6965.43	6964.60	6964.75	6965.20
51	6782.53	6780.79	6783.15	6784.29	6780.89	6783.35	6782.78
52	6595.91	6593.89	6598.77	6599.29	6595.87	6598.84	6598.62
53	6401.38	6404.13	6411.08	6410.94	6405.95	6408.14	6409.36
54	6208.42	6211.96	6221.35	6217.16	6215.61	6213.73	6218.87
55	6009.08	6016.91	6021.80	6018.39	6019.52	6014.81	6020.75
56	5810.87	5818.41	5819.70	5816.33	5819.03	5810.99	5818.41
57	5608.15	5614.86	5611.00	5609.42	5612.13	5605.35	5612.02
58	5397.85	5404.38	5398.99	5400.93	5400.75	5393.89	5398.38

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

59	5182.33	5188.79	5182.89	5187.79	5185.05	5179.86	5183.48
60	4963.05	4964.65	4965.16	4967.36	4965.58	4962.46	4961.94
61	4734.56	4733.90	4736.57	4738.41	4736.41	4733.97	4732.83
62	4492.74	4491.24	4493.70	4491.87	4494.79	4491.76	4488.52
63	4242.18	4244.99	4243.41	4248.44	4247.42	4242.78	4234.04
64	3986.69	3992.11	3988.60	3993.01	3991.98	3986.63	3978.46
65	3732.38	3738.91	3735.61	3737.04	3737.51	3736.90	3726.14
66	3487.43	3491.54	3487.30	3492.63	3487.92	3492.29	3484.89
67	3243.79	3242.62	3242.46	3242.22	3242.70	3246.47	3244.21
68	2991.16	2985.94	2987.08	2988.05	2990.78	2989.72	2992.56
69	2730.10	2722.13	2730.16	2730.00	2736.93	2727.77	2733.03
70	2463.06	2471.25	2463.03	2475.95	2469.66	2474.47	2468.27
71	2221.60	2226.75	2221.21	2229.67	2227.86	2223.95	2223.87
72	1990.09	1984.22	1983.08	1985.76	1989.20	1982.02	1985.40
73	1751.65	1750.93	1751.20	1753.64	1752.00	1752.39	1751.22
74	1523.83	1523.05	1522.49	1527.02	1523.37	1523.36	1523.88
75	1314.76	1310.00	1311.23	1313.37	1308.73	1310.31	1308.29
76	1117.85	1115.95	1107.60	1116.05	1106.66	1113.79	1104.02
77	925.43	924.83	916.37	922.41	916.74	921.99	914.75
78	744.26	740.74	736.35	737.91	737.25	738.05	735.16
79	581.67	581.92	582.72	579.36	577.88	575.24	572.29
80	439.36	441.51	440.26	441.84	436.23	438.69	433.74
81	329.35	331.08	331.11	331.03	327.69	328.13	326.51
82	232.47	234.10	234.25	233.97	231.42	233.82	230.66
83	148.37	148.24	149.58	148.26	148.40	147.74	147.89
84	99.50	96.79	100.49	98.01	100.24	98.15	99.83
85	59.87	52.89	60.66	54.44	61.14	55.06	61.24
86	29.11	29.71	29.64	30.54	30.49	31.07	30.03
87	18.72	19.04	18.92	19.18	18.80	19.16	18.62
88	12.89	13.08	13.14	13.31	13.26	13.47	13.22
89	11.85	11.98	11.93	12.11	12.02	12.13	12.03
90	12.49	12.49	12.51	12.51	12.52	12.50	12.52
91	13.31	13.31	13.32	13.33	13.33	13.31	13.33
92	14.16	14.17	14.18	14.19	14.19	14.18	14.18
93	15.08	15.08	15.09	15.10	15.10	15.09	15.09
94	16.03	16.03	16.04	16.04	16.05	16.04	16.04
95	17.01	17.01	17.02	17.03	17.03	17.02	17.03
96	18.05	18.04	18.05	18.06	18.05	18.05	18.04
97	19.11	19.10	19.12	19.11	19.12	19.11	19.11
98	20.21	20.20	20.22	20.21	20.21	20.20	20.20
99	21.32	21.34	21.34	21.34	21.33	21.34	21.33
100	22.50	22.49	22.50	22.50	22.50	22.50	22.49
101	23.68	23.69	23.69	23.70	23.69	23.69	23.70
102	24.88	24.90	24.89	24.92	24.90	24.91	24.89
103	26.12	26.12	26.13	26.13	26.13	26.12	26.12
104	27.39	27.38	27.39	27.39	27.39	27.38	27.39
105	28.67	28.67	28.67	28.67	28.67	28.67	28.68
106	29.96	29.97	29.98	29.96	29.97	29.96	29.98
107	31.28	31.27	31.29	31.28	31.28	31.27	31.29
108	32.60	32.61	32.62	32.62	32.60	32.61	32.61
109	33.93	33.94	33.95	33.94	33.94	33.94	33.95
110	35.28	35.28	35.29	35.28	35.30	35.29	35.30
111	36.62	36.62	36.64	36.63	36.64	36.64	36.64
112	37.97	37.97	37.98	37.99	37.98	37.98	38.00
113	39.32	39.33	39.34	39.33	39.34	39.33	39.35
114	40.66	40.67	40.69	40.69	40.69	40.69	40.69

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

115	42.01	42.02	42.03	42.02	42.04	42.04	42.05
116	43.37	43.35	43.39	43.37	43.39	43.39	43.39
117	44.71	44.71	44.73	44.72	44.73	44.73	44.75
118	46.05	46.06	46.06	46.08	46.07	46.07	46.09
119	47.39	47.40	47.41	47.41	47.42	47.42	47.44
120	48.73	48.73	48.75	48.74	48.76	48.75	48.78
121	50.06	50.06	50.07	50.08	50.09	50.10	50.11
122	51.40	51.41	51.42	51.43	51.43	51.45	51.44
123	52.75	52.75	52.76	52.77	52.77	52.78	52.78
124	54.09	54.10	54.11	54.12	54.12	54.13	54.13
125	55.44	55.44	55.45	55.47	55.47	55.47	55.48
126	56.80	56.80	56.81	56.82	56.83	56.82	56.84
127	58.15	58.16	58.16	58.17	58.18	58.18	58.19
128	59.51	59.52	59.52	59.53	59.53	59.55	59.55
129	60.88	60.89	60.90	60.90	60.90	60.91	60.93
130	62.25	62.24	62.26	62.27	62.28	62.28	62.30
131	63.63	63.63	63.65	63.65	63.67	63.66	63.67
132	65.01	65.01	65.02	65.03	65.04	65.04	65.05
133	66.39	66.39	66.41	66.41	66.42	66.43	66.44
134	67.77	67.77	67.78	67.79	67.79	67.81	67.82
135	69.16	69.14	69.15	69.16	69.18	69.19	69.20
136	70.54	70.51	70.54	70.54	70.56	70.55	70.57
137	71.89	71.87	71.89	71.90	71.92	71.91	71.93
138	73.26	73.23	73.26	73.26	73.27	73.26	73.29
139	74.59	74.56	74.59	74.59	74.61	74.60	74.63
140	75.91	75.89	75.91	75.92	75.93	75.93	75.94
141	77.23	77.20	77.22	77.23	77.23	77.24	77.25
142	78.52	78.50	78.51	78.52	78.52	78.54	78.53
143	79.81	79.78	79.79	79.80	79.80	79.82	79.82
144	81.06	81.02	81.04	81.04	81.06	81.06	81.07
145	82.29	82.26	82.28	82.28	82.30	82.29	82.30
146	83.50	83.47	83.49	83.49	83.49	83.51	83.52
147	84.69	84.69	84.69	84.70	84.70	84.71	84.71
148	85.86	85.86	85.88	85.88	85.88	85.89	85.88
149	87.03	87.01	87.04	87.03	87.04	87.03	87.05
150	88.18	88.16	88.18	88.17	88.18	88.19	88.19
151	89.29	89.28	89.31	89.30	89.30	89.32	89.32
152	90.41	90.39	90.41	90.41	90.41	90.41	90.43
153	91.48	91.49	91.51	91.50	91.49	91.50	91.51
154	92.54	92.56	92.58	92.57	92.55	92.55	92.55
155	93.58	93.60	93.63	93.62	93.60	93.59	93.58
156	94.60	94.64	94.65	94.65	94.63	94.61	94.61
157	95.61	95.66	95.66	95.66	95.65	95.63	95.61
158	96.60	96.63	96.65	96.64	96.63	96.62	96.60
159	97.56	97.59	97.60	97.59	97.58	97.58	97.57
160	98.50	98.52	98.53	98.52	98.52	98.51	98.49
161	99.41	99.42	99.44	99.44	99.42	99.42	99.41
162	100.31	100.30	100.31	100.31	100.31	100.31	100.30
163	101.17	101.17	101.19	101.18	101.17	101.18	101.17
164	102.02	102.02	102.03	102.03	102.02	102.03	102.03
165	102.83	102.83	102.85	102.84	102.84	102.85	102.85
166	103.62	103.63	103.65	103.65	103.64	103.65	103.64
167	104.41	104.44	104.45	104.45	104.44	104.44	104.44
168	105.20	105.21	105.23	105.22	105.21	105.22	105.22
169	105.94	105.96	105.97	105.96	105.96	105.96	105.96
170	106.63	106.65	106.66	106.65	106.65	106.65	106.65

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES

CANDELA TABULATION - (Cont.)

171	107.25	107.27	107.28	107.27	107.26	107.26	107.26
172	107.78	107.78	107.80	107.80	107.79	107.79	107.79
173	108.28	108.29	108.31	108.30	108.29	108.29	108.29
174	108.76	108.77	108.80	108.78	108.77	108.78	108.77
175	109.16	109.16	109.19	109.17	109.17	109.18	109.17
176	109.50	109.51	109.53	109.52	109.51	109.52	109.52
177	109.79	109.80	109.82	109.82	109.82	109.82	109.82
178	110.03	110.05	110.07	110.07	110.06	110.08	110.07
179	110.22	110.25	110.27	110.27	110.27	110.28	110.27
180	110.22	110.22	110.22	110.22	110.22	110.22	110.22

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

Zone	Lumens	%Lamp	%Fixt
0-20	4162.4	13.20	13.20
0-30	8889.01	28.10	28.10
0-40	14652.71	46.40	46.40
0-60	26036.8	82.40	82.40
0-80	31155.33	98.60	98.60
0-90	31281.15	99.00	99.00
10-90	30208.35	95.60	95.60
20-40	10490.32	33.20	33.20
20-50	16509.71	52.20	52.20
40-70	15073.41	47.70	47.70
60-80	5118.53	16.20	16.20
70-80	1429.2	4.50	4.50
80-90	125.83	0.40	0.40
90-110	49.09	0.20	0.20
90-120	90.71	0.30	0.30
90-130	140.36	0.40	0.40
90-150	245.27	0.80	0.80
90-180	327.73	1.00	1.00
110-180	278.65	0.90	0.90
0-180	31608.89	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1072.81
10-20	3089.59
20-30	4726.61
30-40	5763.7
40-50	6019.39
50-60	5364.69
60-70	3689.33
70-80	1429.2
80-90	125.83
90-100	18.73
100-110	30.35
110-120	41.62
120-130	49.65
130-140	53.41
140-150	51.50
150-160	43.14
160-170	29.00
170-180	10.34



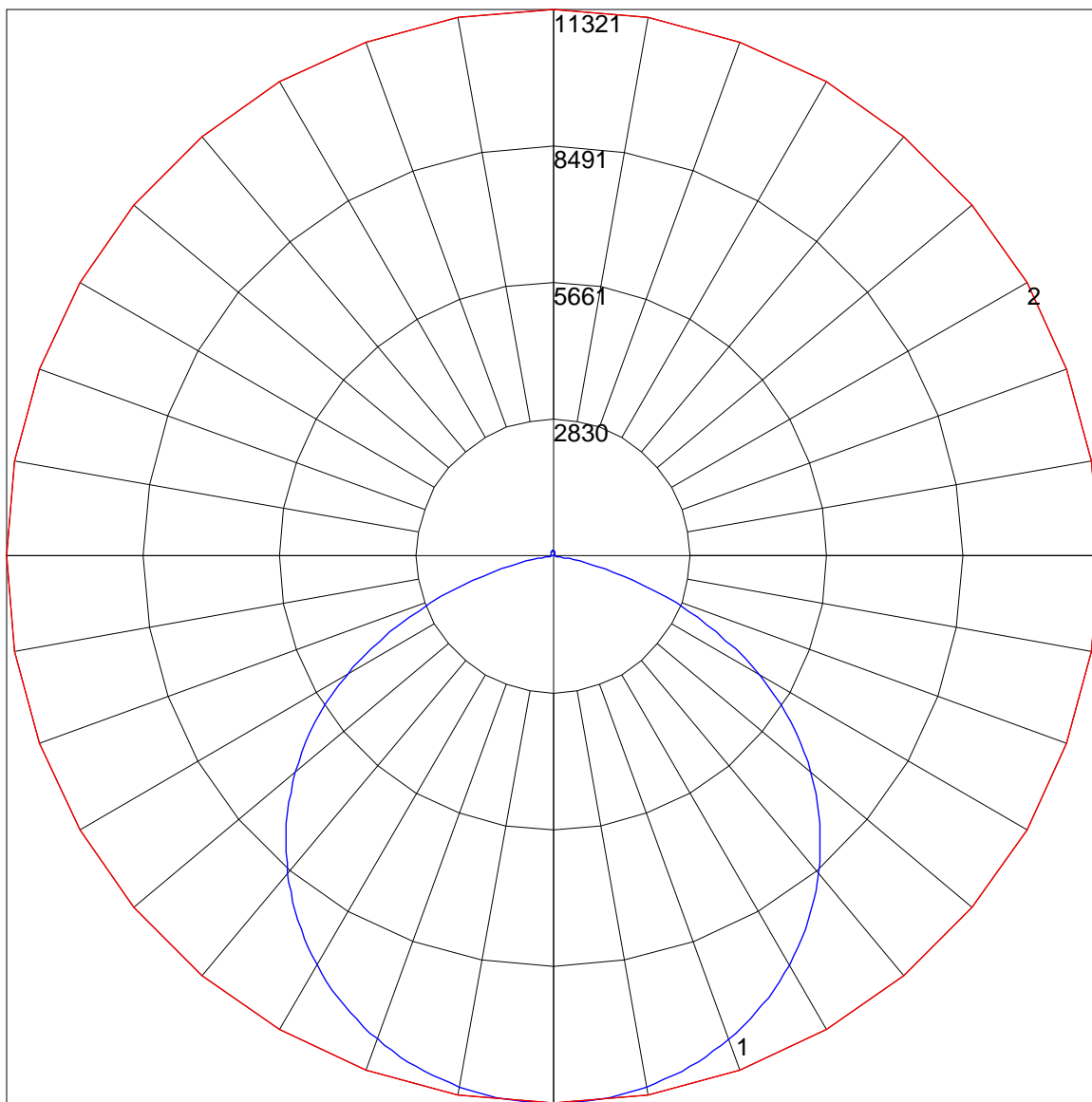
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT50VWD120-277V.IES**

**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	109	105	101	98	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	86	82	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	65	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	51	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 11321.21 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.)