



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 770-48LED23DMV30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLI-15121-1  
 [TESTLAB] LightLab International (www.LightLabInt.com)  
 [MANUFAC] Mobern Lighting Company, Jessup, MD 20794  
 [LUMCAT] 770-48LED23DMV30  
 [LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 770-48LED23DMV30  
 [MORE] White painted fabricated steel housing with white interior and clear prismatic plastic wrap lens.  
 [MORE] 128 LEDs with single row of 32 on each of four white PCBs. Marked "M10CC830D32N2S"  
 [MORE] One Universal Everline driver. Model: D10CC55UNVTZ-C with dimming disconnected. Marked "432"  
 [OTHER] Absolute test - lamp lumens value set to -1  
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
 [MORE] The sample was tested at a distance of 8m.  
 [MORE] This IES file created by LightLab/LSA Report program version 3.807a.  
 [DATE] This file created: Friday, May 15, 2015 7:11:02 AM  
 [ISSUEDATE] Friday, May 15, 2015 7:11:02 AM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2646
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	23
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.24 m
Luminous Height	0.04 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3125	2742	2642
55	2471	1930	1666
65	1545	1289	1045
75	1067	928	880
85	759	844	1066

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**CANDELA TABULATION**

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
<b>0.0</b>	988.32	988.32	988.32	988.32	988.32	988.32	988.32	988.32	988.32	988.32
<b>0.5</b>	983.27	987.63	988.96	990.06	990.08	988.91	988.79	989.07	988.65	988.91
<b>1.0</b>	983.10	987.76	989.48	990.07	990.41	988.99	989.48	989.88	989.09	989.74
<b>1.5</b>	983.98	988.50	990.08	990.90	991.44	989.76	990.39	990.66	990.43	990.94
<b>2.0</b>	984.81	989.64	991.16	991.69	992.50	991.35	992.18	992.14	992.32	993.52
<b>2.5</b>	986.16	990.88	992.11	992.96	993.71	992.90	994.41	994.46	995.58	996.03
<b>3.0</b>	987.21	991.74	993.82	994.56	995.51	995.10	996.60	997.34	997.96	999.14
<b>3.5</b>	988.22	992.82	994.54	995.38	997.18	997.58	998.88	999.79	1000.86	1001.84
<b>4.0</b>	988.02	992.95	994.93	996.63	998.51	999.70	1001.21	1002.06	1003.40	1004.24
<b>4.5</b>	987.44	992.33	995.99	996.79	1000.07	1001.68	1003.78	1004.49	1005.47	1007.16
<b>5.0</b>	986.92	991.86	995.85	997.06	1001.09	1003.17	1005.45	1006.90	1008.20	1009.46
<b>5.5</b>	985.89	991.03	995.72	997.71	1001.77	1004.40	1006.56	1008.80	1010.52	1012.38
<b>6.0</b>	984.90	990.22	995.76	997.65	1002.65	1005.55	1008.65	1010.35	1013.13	1014.93
<b>6.5</b>	982.66	988.65	995.89	998.06	1003.79	1006.63	1009.69	1012.33	1015.48	1016.77
<b>7.0</b>	980.90	986.88	995.56	997.27	1004.20	1008.25	1011.47	1013.82	1016.76	1017.55
<b>7.5</b>	979.33	985.52	994.70	996.89	1004.32	1008.78	1012.27	1015.27	1016.98	1017.52
<b>8.0</b>	977.32	984.07	994.25	996.87	1004.11	1009.90	1013.40	1015.04	1016.10	1015.84
<b>8.5</b>	975.77	982.67	993.67	996.45	1004.10	1010.53	1013.62	1015.02	1014.08	1013.55
<b>9.0</b>	973.56	981.35	993.17	996.10	1004.37	1010.01	1012.77	1013.37	1011.69	1009.55
<b>9.5</b>	972.16	979.95	992.74	995.43	1004.35	1009.62	1011.41	1011.65	1008.03	1005.53
<b>10.0</b>	970.70	978.95	991.59	995.39	1004.47	1009.01	1009.26	1008.94	1003.47	1000.07
<b>10.5</b>	968.55	977.20	990.62	993.71	1003.18	1007.53	1006.34	1005.16	998.73	993.67
<b>11.0</b>	966.45	975.57	989.55	992.88	1002.04	1005.04	1003.41	1000.90	992.45	986.35
<b>11.5</b>	964.01	974.07	988.11	991.35	1000.76	1002.20	999.42	995.96	986.22	978.84
<b>12.0</b>	961.51	972.43	986.49	990.45	999.58	998.33	995.25	990.63	979.10	971.98
<b>12.5</b>	959.47	970.64	985.37	989.14	997.71	994.43	990.09	985.54	972.25	965.34
<b>13.0</b>	958.08	969.78	984.56	987.93	995.95	990.16	985.06	979.25	965.80	959.85
<b>13.5</b>	956.50	968.34	983.83	987.51	994.30	985.48	979.00	972.49	960.45	955.08
<b>14.0</b>	955.13	967.63	983.25	987.15	991.94	980.33	972.84	966.30	955.48	951.76
<b>14.5</b>	953.01	966.55	983.53	986.90	989.55	975.05	966.50	960.39	951.78	949.08
<b>15.0</b>	950.17	964.76	983.06	986.03	987.00	969.77	961.26	954.72	948.86	948.31
<b>15.5</b>	946.01	963.10	982.40	984.85	983.46	964.05	955.85	950.44	946.74	948.70
<b>16.0</b>	942.52	960.31	981.13	983.03	978.88	958.91	950.84	946.24	945.88	950.27
<b>16.5</b>	938.44	958.30	979.27	980.87	974.23	953.15	945.46	942.28	946.42	952.68
<b>17.0</b>	934.85	955.94	976.98	977.64	969.21	947.33	940.58	939.02	946.89	955.36
<b>17.5</b>	930.90	953.42	974.66	974.81	964.60	941.88	935.70	936.14	948.26	958.87
<b>18.0</b>	928.41	951.06	972.09	971.55	959.29	936.69	932.26	934.22	949.90	961.33
<b>18.5</b>	925.69	948.79	968.97	967.61	953.72	931.88	929.31	933.11	950.90	962.69
<b>19.0</b>	923.20	946.97	965.53	963.25	948.37	927.95	926.57	932.14	952.36	962.78
<b>19.5</b>	920.91	944.79	961.58	959.08	943.25	924.26	925.12	932.23	953.26	961.22
<b>20.0</b>	919.15	942.17	957.71	953.96	937.64	921.28	924.15	933.16	952.69	958.40
<b>20.5</b>	916.95	939.87	953.60	949.58	931.67	919.06	923.47	934.38	951.47	953.78
<b>21.0</b>	914.40	936.84	949.24	944.31	926.19	917.05	923.62	934.99	948.96	947.95
<b>21.5</b>	912.18	934.49	944.43	939.22	920.86	915.09	924.01	934.97	945.45	941.38
<b>22.0</b>	909.48	931.69	939.60	934.15	915.32	913.60	923.61	934.16	939.66	933.97
<b>22.5</b>	906.40	929.58	934.72	928.10	909.98	911.88	923.05	931.58	934.23	925.89
<b>23.0</b>	902.69	926.60	929.87	923.33	905.15	909.80	921.62	928.61	926.43	917.10
<b>23.5</b>	898.06	923.91	924.97	917.57	899.92	908.19	920.01	924.83	918.21	908.76
<b>24.0</b>	893.76	921.60	919.81	912.34	895.88	907.05	918.03	920.64	910.71	901.79
<b>24.5</b>	889.70	918.01	913.92	906.55	891.72	904.99	915.13	915.14	903.42	895.87
<b>25.0</b>	884.85	914.50	907.79	900.60	888.04	903.34	912.09	909.36	896.80	890.67
<b>25.5</b>	880.04	910.16	901.79	894.94	885.11	901.44	908.18	903.13	890.97	886.97
<b>26.0</b>	875.75	905.23	895.38	889.10	882.71	899.88	903.52	896.62	885.82	884.41
<b>26.5</b>	872.59	900.31	889.12	883.26	879.48	897.45	898.08	889.74	881.63	881.74

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**CANDELA TABULATION - (Cont.)**

27.0	869.28	894.64	883.23	877.33	876.94	894.18	892.15	882.73	877.40	880.14
27.5	865.30	889.18	877.03	871.69	873.88	890.07	885.65	876.88	874.08	877.30
28.0	861.84	883.79	870.51	865.74	870.33	885.19	879.23	871.11	870.24	875.12
28.5	857.30	878.24	864.10	859.77	866.83	879.75	872.95	865.92	865.66	871.24
29.0	853.74	872.41	858.02	853.82	862.71	873.30	867.43	860.93	861.28	866.53
29.5	848.34	867.35	851.69	848.47	857.86	867.22	861.40	856.36	856.33	860.73
30.0	844.06	862.16	846.38	842.97	853.45	859.91	855.41	851.92	850.80	854.81
30.5	839.02	857.14	841.45	838.32	849.12	853.40	849.48	847.01	844.57	848.90
31.0	834.53	852.50	836.50	834.34	844.79	846.96	843.45	841.19	838.79	843.23
31.5	830.52	847.06	831.30	829.86	839.53	840.08	836.97	835.30	833.10	837.98
32.0	825.88	842.04	826.62	824.99	834.59	833.78	830.53	828.90	828.09	833.89
32.5	821.61	835.93	820.93	820.53	828.93	826.59	824.01	822.99	823.38	828.74
33.0	816.55	830.74	816.00	815.26	823.92	819.67	817.12	816.99	819.34	824.19
33.5	812.00	824.39	810.39	810.09	818.82	812.57	810.04	811.67	814.53	819.50
34.0	806.06	817.69	804.57	804.75	813.51	805.38	803.29	806.36	810.02	815.28
34.5	799.80	811.09	798.29	798.87	808.39	798.78	797.17	800.72	805.26	810.68
35.0	793.26	804.51	791.67	792.59	803.14	791.78	791.42	795.13	800.63	805.36
35.5	787.75	797.30	784.58	785.63	797.65	784.94	786.20	788.79	795.25	799.21
36.0	782.52	790.01	777.88	779.54	791.34	777.42	780.24	783.32	789.55	792.65
36.5	776.50	782.92	771.08	773.51	784.92	770.76	774.55	777.41	784.07	784.80
37.0	771.41	776.70	764.93	767.03	778.04	763.94	768.36	771.01	777.34	775.40
37.5	765.44	770.40	759.10	761.11	770.97	757.41	761.42	764.92	769.90	765.52
38.0	759.46	763.61	752.73	755.07	763.53	750.88	754.97	758.10	761.82	756.08
38.5	752.25	755.87	746.04	748.83	755.83	744.26	747.83	751.83	753.01	745.59
39.0	745.71	748.08	738.80	742.54	747.66	737.83	741.32	744.71	743.54	736.26
39.5	738.31	740.67	731.92	735.36	739.52	731.02	733.72	737.78	734.23	727.89
40.0	731.39	732.55	724.09	728.33	731.57	723.57	726.28	730.48	724.58	718.84
40.5	723.92	724.69	716.32	720.91	723.34	716.21	719.31	723.04	714.91	710.09
41.0	717.96	717.24	709.46	713.91	715.16	708.51	712.11	715.16	705.72	701.18
41.5	711.76	709.47	702.39	705.97	706.02	700.72	704.69	706.24	696.30	692.31
42.0	704.39	702.41	695.31	698.42	697.41	692.90	697.11	696.60	686.51	682.91
42.5	697.48	694.15	687.70	690.24	689.24	685.25	688.64	686.93	676.73	673.61
43.0	688.75	685.50	679.41	681.82	680.44	676.49	679.35	676.07	666.38	663.98
43.5	680.52	676.83	671.04	672.71	670.79	667.84	668.70	664.78	655.38	654.10
44.0	671.91	667.02	662.71	664.45	661.44	658.64	658.50	653.37	644.32	644.31
44.5	662.81	658.03	653.90	655.63	651.47	647.68	647.23	641.48	632.92	634.19
45.0	654.52	649.16	644.97	647.25	641.68	637.05	635.87	628.57	620.63	622.98
45.5	645.33	639.61	635.88	638.22	631.41	626.32	623.55	615.78	609.40	611.90
46.0	634.93	629.84	626.48	629.18	620.00	614.64	610.58	602.32	597.43	599.83
46.5	624.83	619.38	617.70	619.63	609.24	603.19	596.85	588.85	585.68	587.14
47.0	614.17	608.77	608.04	609.43	597.82	590.84	583.44	576.21	573.86	574.47
47.5	603.13	598.26	597.55	599.61	585.85	577.94	569.85	563.18	561.75	561.30
48.0	592.70	588.90	586.71	588.55	574.02	564.26	556.69	550.37	549.68	548.20
48.5	582.47	578.42	575.79	577.24	561.53	550.63	543.01	537.93	537.39	535.14
49.0	571.58	568.20	564.34	565.51	548.84	537.77	529.86	525.80	525.04	521.66
49.5	559.89	558.37	553.14	553.00	536.05	524.53	517.01	514.11	512.33	507.76
50.0	548.89	547.95	541.88	540.17	522.75	511.80	504.62	501.70	499.87	494.14
50.5	536.66	537.34	529.71	527.11	510.03	498.77	492.23	489.64	486.45	479.37
51.0	525.01	526.51	517.84	513.98	496.55	486.37	479.93	477.69	473.54	465.38
51.5	512.86	514.99	504.93	500.93	483.94	473.63	467.89	465.02	460.04	451.35
52.0	500.85	503.00	491.78	488.00	471.85	460.83	455.94	452.96	446.56	437.20
52.5	488.85	491.03	478.33	475.01	459.42	448.55	443.65	440.02	432.88	422.86
53.0	476.58	478.54	465.77	461.80	447.15	435.98	431.17	427.17	419.41	408.72
53.5	464.30	465.97	452.28	449.12	434.74	423.71	418.97	414.66	405.50	395.13
54.0	451.84	453.16	439.28	436.24	422.81	411.22	407.18	402.20	392.28	381.85
54.5	438.96	440.31	427.25	423.19	410.78	399.58	395.17	389.49	378.47	368.57

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**CANDELA TABULATION - (Cont.)**

55.0	425.59	426.36	414.36	410.28	399.21	387.68	382.64	376.86	365.87	356.12
55.5	412.43	412.80	402.31	398.09	387.32	376.25	370.75	365.11	352.83	343.95
56.0	399.06	399.59	389.58	385.04	375.41	364.37	358.92	353.21	340.59	332.89
56.5	385.20	386.19	377.36	373.29	364.67	353.66	347.48	342.10	329.13	321.41
57.0	371.81	372.88	365.32	361.27	353.60	342.51	336.13	330.94	318.06	311.17
57.5	358.90	359.76	353.44	350.02	342.63	332.26	325.58	320.17	307.56	301.26
58.0	344.72	346.75	342.10	338.90	332.48	321.93	315.02	310.26	297.69	291.66
58.5	332.28	334.10	330.60	327.78	322.46	311.82	304.99	300.03	288.11	282.25
59.0	319.06	321.81	319.89	317.41	312.26	302.21	295.56	290.57	279.49	273.64
59.5	306.56	309.51	309.14	307.10	302.74	292.40	286.42	280.97	270.88	264.71
60.0	294.79	298.19	298.94	297.47	293.44	283.41	277.25	272.83	262.81	256.44
60.5	283.13	286.63	288.53	287.78	284.36	274.72	268.96	264.29	254.29	248.34
61.0	271.93	275.93	279.05	278.33	275.01	266.47	261.05	256.11	246.82	240.35
61.5	261.77	265.27	269.38	269.03	266.50	258.41	252.93	248.86	239.29	232.18
62.0	252.05	255.20	259.95	259.79	257.95	250.60	245.32	241.17	231.99	224.69
62.5	242.06	245.71	250.68	251.39	249.72	242.55	238.21	234.17	224.58	217.96
63.0	233.18	236.49	241.89	242.64	241.92	235.15	230.99	227.03	217.58	211.00
63.5	224.18	227.50	233.22	234.30	234.16	228.46	224.05	220.05	210.96	204.17
64.0	215.78	219.25	224.93	226.27	226.66	221.43	217.48	213.36	204.25	197.19
64.5	208.16	211.01	216.75	218.37	219.30	214.84	210.55	206.41	197.80	190.53
65.0	200.46	203.28	208.69	210.53	212.24	208.56	204.34	200.28	191.42	184.08
65.5	193.79	195.39	201.03	203.44	205.44	201.81	198.16	193.73	185.14	178.63
66.0	186.02	188.05	194.10	196.03	198.65	195.89	191.95	187.48	179.36	172.83
66.5	179.04	180.99	187.02	189.10	192.06	189.79	186.08	182.33	173.30	167.61
67.0	172.86	173.97	180.21	182.25	185.84	183.93	180.35	176.08	167.58	162.71
67.5	166.10	167.67	173.42	175.84	179.60	177.96	174.82	170.47	162.58	157.67
68.0	159.85	160.86	167.37	169.54	173.62	172.54	169.29	164.83	157.19	152.89
68.5	153.75	154.67	160.55	163.41	168.02	166.96	163.99	159.46	152.76	147.90
69.0	147.42	148.82	154.67	157.65	161.80	161.70	158.57	153.93	148.04	143.51
69.5	142.26	142.84	149.06	151.68	156.48	156.53	153.66	149.77	143.13	138.90
70.0	136.67	136.90	143.22	145.84	150.58	151.32	148.39	144.77	138.84	134.68
70.5	130.70	131.50	138.21	140.16	145.87	145.84	143.30	139.92	134.70	130.80
71.0	125.65	126.08	132.52	135.44	140.74	140.88	138.54	135.82	130.56	126.60
71.5	120.35	120.76	127.23	129.66	135.62	135.74	134.53	131.49	126.44	122.95
72.0	115.49	115.66	122.65	124.93	130.93	131.55	129.90	127.44	122.50	119.54
72.5	110.74	110.86	117.74	119.85	125.88	126.54	125.23	123.22	119.01	116.13
73.0	106.18	105.50	112.85	115.41	120.99	121.75	121.07	119.39	115.66	113.47
73.5	101.07	101.59	108.41	110.82	116.24	117.72	117.03	115.38	112.70	110.76
74.0	96.84	96.94	104.08	106.54	112.34	113.30	113.23	112.29	109.87	108.25
74.5	92.17	92.35	99.75	102.07	107.77	109.30	109.31	108.43	107.21	105.48
75.0	88.91	88.84	95.59	97.75	103.41	104.68	105.83	105.46	104.18	103.49
75.5	84.74	84.84	91.80	93.79	99.24	101.13	102.25	102.42	102.01	101.38
76.0	80.91	81.01	87.64	90.22	95.39	97.64	98.61	99.57	99.53	99.64
76.5	77.15	77.43	84.36	86.49	91.53	94.00	95.54	96.66	97.66	98.29
77.0	73.01	74.11	80.44	82.76	88.11	90.61	92.39	94.11	95.83	97.02
77.5	70.51	70.74	77.21	79.33	84.37	87.77	89.02	91.40	93.99	96.26
78.0	66.88	67.16	73.83	75.96	81.17	84.55	86.10	88.70	92.64	95.13
78.5	63.44	63.91	70.43	72.70	78.03	80.95	83.40	86.04	91.21	94.79
79.0	60.73	61.00	67.47	69.54	75.08	78.07	80.43	84.22	90.11	94.24
79.5	57.73	58.14	64.49	66.26	71.79	75.10	77.96	82.27	89.56	93.90
80.0	54.32	55.37	60.90	63.16	68.79	72.68	75.66	80.61	88.68	93.50
80.5	51.93	52.17	58.25	60.41	65.70	69.87	73.28	78.44	87.42	93.02
81.0	49.08	49.28	55.13	57.26	62.59	67.43	71.46	77.24	86.70	92.24
81.5	46.38	46.59	52.44	54.40	60.00	64.99	69.67	75.61	85.60	91.75
82.0	43.35	43.31	49.29	51.43	56.79	62.32	67.57	74.00	84.54	90.92
82.5	40.82	41.31	46.70	48.47	54.29	60.29	65.78	72.30	83.67	89.59

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

83.0	37.61	37.97	43.83	45.85	51.25	57.96	63.27	70.58	82.39	88.13
83.5	34.58	35.03	40.96	42.85	48.49	55.90	61.51	68.85	80.52	85.92
84.0	31.11	32.60	38.23	40.00	46.14	53.55	59.50	66.82	78.51	83.28
84.5	28.19	29.51	35.35	37.13	43.50	51.55	57.49	65.10	76.36	79.62
85.0	26.10	26.53	32.51	34.54	40.69	48.87	55.74	62.72	73.41	76.25
85.5	22.16	23.98	29.69	31.64	38.10	47.07	53.21	60.59	70.27	71.96
86.0	19.21	21.09	26.84	28.85	35.56	44.80	51.31	57.70	66.49	67.85
86.5	15.70	18.43	23.92	25.81	32.63	42.62	48.52	55.09	62.56	63.71
87.0	12.89	15.44	20.89	23.35	29.95	40.58	46.24	52.25	58.34	60.13
87.5	9.47	12.65	18.03	20.14	27.63	38.36	44.01	49.21	54.37	56.93
88.0	6.59	9.98	15.68	17.83	25.11	36.24	41.85	45.70	51.09	54.55
88.5	3.68	7.44	12.56	14.96	22.98	34.12	39.56	43.40	48.73	52.57
89.0	1.77	4.73	11.04	13.16	21.28	32.68	37.45	41.25	46.72	50.81
89.5	0.00	3.28	9.93	11.82	19.93	31.18	35.67	38.69	44.86	49.66
90.0	0.00	2.63	9.34	11.00	19.31	30.33	33.96	37.43	43.92	49.18
90.5	0.00	2.93	9.31	11.03	18.92	29.55	33.39	36.26	43.80	49.10
91.0	0.00	2.69	9.23	11.03	19.15	29.56	32.65	36.06	43.71	50.00
91.5	0.00	2.67	9.11	11.32	19.30	28.75	31.98	35.92	44.16	51.71
92.0	0.00	2.40	9.32	11.50	19.77	28.57	32.02	35.46	45.28	53.21
92.5	0.00	2.76	9.33	11.38	19.09	28.29	31.76	35.66	46.33	54.52
93.0	0.00	2.81	9.84	11.67	19.72	27.68	31.71	36.21	47.43	56.13
93.5	0.00	2.38	9.54	11.83	19.85	28.02	31.91	36.76	49.05	58.34
94.0	0.00	2.70	9.65	11.85	19.29	27.87	32.14	37.16	50.58	59.94
94.5	0.00	2.90	9.84	12.08	19.31	28.05	32.74	38.29	51.95	61.19
95.0	0.00	2.53	9.99	12.22	19.36	28.47	33.22	39.46	53.33	62.49
95.5	0.00	2.90	9.97	12.29	19.60	28.60	33.94	40.31	54.67	63.99
96.0	0.00	2.63	9.86	11.84	19.42	29.19	34.72	41.47	56.06	64.88
96.5	0.00	2.81	9.96	12.28	19.67	29.76	35.81	42.79	57.06	66.87
97.0	1.23	2.74	9.90	12.48	19.64	30.20	36.60	43.93	58.18	67.13
97.5	0.00	3.07	10.23	12.38	20.03	30.63	37.67	44.63	58.91	67.52
98.0	0.00	3.05	10.25	12.48	20.20	31.43	38.05	45.50	59.79	66.78
98.5	0.00	2.92	10.30	12.59	20.50	32.13	39.06	46.63	60.13	66.67
99.0	0.00	3.04	10.75	12.78	21.00	32.73	39.90	46.72	60.45	66.13
99.5	0.00	3.35	10.39	12.78	21.14	33.22	40.51	48.31	59.93	65.28
100.0	0.00	3.00	10.93	12.87	21.76	33.81	41.13	48.64	59.40	63.80
100.5	0.00	3.18	10.71	13.26	21.53	34.67	41.52	48.67	58.94	62.35
101.0	0.00	3.42	11.40	13.29	21.91	35.37	41.63	48.77	57.95	61.28
101.5	0.00	3.30	11.35	13.61	22.03	35.69	42.30	48.48	56.62	59.55
102.0	0.00	3.60	11.56	13.32	22.79	35.63	42.03	48.22	55.64	57.83
102.5	0.00	3.61	11.77	14.14	22.70	35.91	42.18	47.60	54.19	56.42
103.0	0.00	3.64	11.64	14.16	22.74	36.08	42.07	47.07	52.27	54.47
103.5	0.00	3.48	11.96	14.33	23.15	36.21	41.31	45.86	51.18	52.96
104.0	0.00	3.74	12.09	14.61	23.54	35.89	41.35	45.17	49.88	51.50
104.5	0.00	4.00	12.31	14.65	23.26	35.65	40.36	43.84	48.36	50.02
105.0	0.00	3.98	11.94	14.81	23.85	34.85	39.72	43.05	46.87	48.68
105.5	0.00	3.92	12.18	15.06	23.95	34.88	39.06	41.74	45.69	47.28
106.0	1.24	3.78	12.33	15.33	24.24	34.62	38.04	40.85	44.61	46.19
106.5	0.00	4.11	12.62	15.00	24.01	34.35	37.47	40.04	43.68	45.27
107.0	1.32	4.56	12.58	15.53	24.03	33.56	36.65	39.38	42.71	44.74
107.5	1.20	4.30	13.04	15.74	24.10	32.99	36.46	38.86	42.27	44.06
108.0	0.00	4.66	13.40	15.86	24.16	32.53	35.96	38.55	41.98	43.42
108.5	1.32	4.84	13.53	15.52	23.74	32.24	35.23	37.70	41.32	43.20
109.0	0.00	4.67	13.57	16.05	23.85	31.78	35.07	37.38	41.15	42.83
109.5	1.37	4.66	13.82	15.68	23.85	31.52	34.53	37.14	41.17	42.60
110.0	0.00	5.22	13.78	16.50	23.61	31.64	34.51	36.82	40.62	42.21
110.5	0.00	4.94	14.07	16.46	23.85	31.39	34.61	37.27	40.60	42.05

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

111.0	1.26	5.23	14.05	16.38	23.79	31.37	34.54	36.56	40.59	42.10
111.5	1.20	5.10	14.20	16.40	23.72	31.53	34.62	36.99	40.67	42.02
112.0	1.64	5.46	14.28	16.68	23.68	31.79	34.81	37.08	41.21	42.29
112.5	1.79	5.29	14.87	16.58	23.67	31.64	34.63	37.26	41.32	42.70
113.0	0.00	5.68	14.65	17.28	23.90	31.95	35.20	37.28	41.10	42.57
113.5	1.40	5.54	14.90	17.19	24.28	32.29	35.54	37.67	41.94	42.94
114.0	0.00	5.56	14.71	17.39	24.33	32.39	35.41	38.25	42.03	43.31
114.5	1.29	5.66	15.22	17.48	24.48	32.76	35.79	38.55	42.26	43.49
115.0	1.37	5.90	15.30	17.77	24.62	32.77	36.20	39.12	42.81	44.01
115.5	0.00	5.81	15.58	17.80	24.79	33.40	36.24	39.08	42.93	44.11
116.0	1.81	6.05	15.79	17.63	24.97	33.56	36.99	39.28	43.06	44.68
116.5	1.25	5.90	15.67	18.04	24.92	33.59	37.15	39.80	43.84	45.00
117.0	1.36	6.19	15.70	18.04	25.38	34.36	37.37	40.43	43.92	45.43
117.5	0.00	6.14	15.68	17.88	25.53	34.01	38.09	40.72	44.39	45.88
118.0	1.60	5.62	15.94	17.76	25.81	34.54	38.16	41.01	44.44	45.80
118.5	1.46	6.57	15.99	18.43	25.98	34.95	38.25	41.10	44.87	46.39
119.0	1.61	6.42	16.23	18.96	26.50	35.08	38.29	41.35	45.27	46.54
119.5	0.00	6.38	16.09	18.70	26.21	35.44	38.77	41.57	45.58	47.30
120.0	2.14	6.26	16.28	18.52	26.39	35.57	38.86	42.15	45.63	47.13
120.5	2.06	5.98	16.24	18.71	26.69	35.53	39.23	42.34	45.89	47.66
121.0	1.95	6.35	16.02	18.32	26.59	35.73	39.35	42.40	46.37	47.89
121.5	2.07	6.53	15.66	18.70	26.37	35.52	39.60	42.47	46.51	48.07
122.0	1.92	6.46	15.90	18.43	26.29	35.79	39.48	42.78	46.69	48.22
122.5	1.66	6.44	16.17	18.55	26.46	35.33	39.08	42.56	46.36	48.23
123.0	1.99	6.39	16.04	18.48	26.02	35.59	39.52	42.66	46.63	48.23
123.5	1.77	5.96	15.91	18.16	26.32	35.49	39.37	42.14	46.73	48.14
124.0	2.09	6.13	15.51	18.27	26.10	35.06	39.44	41.94	46.43	48.36
124.5	2.01	6.10	15.35	17.81	25.51	35.04	38.93	42.23	46.21	48.22
125.0	2.30	6.05	15.12	17.74	25.39	35.06	38.39	41.77	46.29	48.19
125.5	1.71	6.05	14.81	17.42	24.73	34.86	38.18	41.53	46.15	48.24
126.0	2.44	6.14	14.65	17.14	24.76	34.16	38.00	41.18	46.04	47.82
126.5	1.96	6.29	14.80	17.08	24.46	33.98	37.63	40.74	45.67	47.78
127.0	2.11	5.80	14.87	16.67	24.25	33.74	37.43	40.79	45.13	47.24
127.5	2.19	5.98	14.04	16.31	23.62	33.42	37.00	40.30	44.67	46.85
128.0	2.10	5.80	13.93	16.30	23.43	32.54	36.53	39.45	44.26	46.42
128.5	1.98	5.71	13.73	15.72	22.75	32.32	36.02	38.90	43.94	46.08
129.0	2.11	5.68	13.55	15.53	22.67	31.70	35.34	38.48	43.71	45.56
129.5	2.47	5.48	13.37	15.33	22.12	31.37	34.58	38.10	42.99	44.98
130.0	2.15	5.66	12.99	15.28	22.27	30.93	34.26	37.46	42.32	44.37
130.5	1.82	5.52	12.70	14.65	21.32	30.13	33.85	37.27	41.44	43.90
131.0	2.45	5.49	12.74	14.33	20.54	29.48	32.95	36.42	40.67	43.33
131.5	2.33	5.57	12.02	14.18	20.53	29.03	32.35	35.38	40.25	42.65
132.0	2.40	4.86	11.72	13.66	19.66	28.20	31.90	35.05	39.80	41.72
132.5	2.57	5.25	11.96	13.63	19.70	27.71	31.10	34.59	38.97	41.17
133.0	2.57	5.08	11.55	13.19	19.30	27.10	30.52	33.68	38.40	40.70
133.5	2.57	4.65	11.03	12.88	18.57	26.74	29.73	33.09	37.50	40.15
134.0	2.84	5.29	10.96	12.51	18.14	25.82	29.14	32.17	36.73	39.14
134.5	2.97	4.93	10.64	12.58	17.57	25.64	28.31	31.73	36.09	38.42
135.0	2.34	4.74	10.89	12.21	17.40	24.54	27.54	30.69	35.04	37.83
135.5	2.57	4.70	10.05	12.04	17.14	24.14	26.99	29.85	34.50	36.77
136.0	2.70	4.74	9.85	11.63	16.70	23.30	26.41	29.23	34.16	35.95
136.5	2.29	4.66	9.74	11.23	15.98	22.69	25.74	28.56	33.01	35.10
137.0	2.25	4.28	9.92	11.28	15.87	21.80	24.79	27.75	31.93	34.08
137.5	2.65	4.54	9.28	10.78	15.80	21.42	24.19	26.89	31.14	33.42
138.0	2.38	4.56	9.39	10.45	15.08	20.99	23.56	26.11	30.09	32.42
138.5	2.83	4.76	8.88	10.06	14.68	20.47	23.03	25.57	29.32	31.71

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

139.0	3.02	4.37	9.04	10.06	14.12	19.88	22.11	24.80	28.94	30.98
139.5	2.62	4.35	8.68	9.70	13.96	19.15	21.50	24.25	28.02	29.98
140.0	3.08	4.05	8.45	9.58	13.42	19.05	20.78	23.66	27.17	29.08
140.5	2.79	4.27	8.16	9.24	13.08	18.38	20.35	22.62	26.60	28.42
141.0	2.23	4.34	8.29	9.31	12.91	18.08	19.71	22.04	25.93	27.63
141.5	2.74	4.03	8.05	9.08	12.56	17.14	19.56	21.60	24.98	26.54
142.0	2.90	4.13	7.52	8.79	12.55	16.76	18.71	20.43	24.70	26.01
142.5	2.62	3.83	7.80	8.66	11.95	16.30	18.39	20.28	23.57	25.42
143.0	2.77	4.15	7.56	8.23	12.13	16.24	18.09	19.73	22.87	24.40
143.5	2.66	4.23	7.27	8.25	11.69	15.53	17.40	19.10	21.97	23.96
144.0	2.88	3.86	7.42	7.80	11.20	15.41	16.84	18.96	21.69	23.21
144.5	2.44	3.72	7.23	7.95	10.56	14.81	16.33	18.24	21.39	22.49
145.0	2.97	3.47	7.22	7.85	10.74	14.55	16.26	17.57	20.41	22.14
145.5	2.55	4.12	7.05	7.71	10.82	14.41	15.60	17.25	20.06	21.60
146.0	2.77	3.59	6.66	7.54	10.34	14.30	15.15	16.70	19.46	21.03
146.5	2.93	4.13	6.66	7.30	10.24	13.75	14.74	15.92	18.74	20.20
147.0	2.83	3.56	6.62	7.20	10.11	12.89	14.59	15.86	18.58	19.55
147.5	2.64	3.91	6.44	7.04	9.91	12.91	14.44	15.35	17.78	19.76
148.0	2.93	3.69	6.30	6.89	9.61	12.44	13.79	14.95	17.36	18.83
148.5	3.17	3.70	6.35	6.87	9.62	12.01	13.34	14.99	17.10	18.31
149.0	2.88	3.64	6.36	6.75	9.21	12.30	13.37	14.40	16.51	17.77
149.5	3.45	3.79	5.93	6.44	9.08	11.80	12.67	13.83	16.12	17.11
150.0	3.12	3.85	5.94	6.47	8.72	11.88	12.44	13.75	15.72	16.64
150.5	2.89	3.45	5.82	6.50	8.24	11.15	12.45	13.50	15.09	16.28
151.0	3.31	3.71	5.86	6.21	8.51	11.03	11.96	13.51	14.65	15.69
151.5	3.27	3.70	5.60	6.17	8.47	10.69	11.72	12.57	14.18	15.67
152.0	3.12	3.85	5.44	6.07	8.25	10.67	11.51	12.17	14.02	14.91
152.5	3.19	3.56	5.44	6.00	8.02	10.54	10.79	12.11	13.80	14.59
153.0	2.85	3.66	5.48	5.68	7.50	9.92	10.92	11.77	13.49	14.69
153.5	2.91	3.39	5.22	5.72	7.24	9.56	10.37	11.55	13.23	13.79
154.0	3.01	3.51	5.35	5.75	7.21	9.81	10.16	11.20	12.45	13.86
154.5	3.00	3.52	5.00	5.65	7.29	9.81	10.12	10.90	12.21	13.28
155.0	3.12	3.55	4.79	5.20	6.77	9.25	9.69	10.53	12.19	13.13
155.5	3.01	3.68	5.00	5.59	6.83	9.18	9.25	10.62	11.58	12.39
156.0	2.76	3.39	5.04	5.37	6.67	8.75	9.22	10.20	11.65	12.05
156.5	2.97	3.20	5.02	5.24	6.12	8.63	9.11	9.75	11.23	11.98
157.0	3.24	3.30	4.66	4.43	6.32	8.19	9.27	9.67	11.05	11.64
157.5	3.06	3.43	4.34	4.61	6.35	8.31	8.51	9.52	10.58	11.05
158.0	3.38	3.32	4.67	4.92	6.33	7.96	8.51	9.24	9.91	11.26
158.5	2.92	3.04	4.22	4.77	5.85	7.66	8.28	8.91	9.88	10.63
159.0	2.79	3.31	4.40	4.60	5.79	7.57	7.97	9.06	9.89	10.41
159.5	2.43	3.23	4.51	4.33	5.82	7.11	7.76	8.60	9.76	10.47
160.0	2.87	3.17	3.88	4.36	5.45	6.98	7.53	8.05	9.44	9.93
160.5	2.93	2.98	3.93	4.41	5.54	6.66	6.87	8.14	9.02	9.77
161.0	2.56	2.85	4.12	3.91	5.12	6.65	7.00	7.45	8.76	9.41
161.5	2.77	3.01	3.68	3.89	5.17	6.46	6.73	7.62	8.49	9.06
162.0	3.02	3.06	3.62	3.97	4.99	6.17	7.02	7.43	8.38	8.97
162.5	2.50	3.33	3.51	4.04	5.23	6.27	6.48	6.94	8.13	8.54
163.0	2.83	3.22	3.64	3.77	4.49	5.91	6.27	6.78	7.66	8.49
163.5	2.78	3.03	3.72	3.85	4.75	5.97	5.95	6.70	7.42	8.32
164.0	3.02	2.97	3.74	3.66	4.45	5.96	5.70	6.45	7.59	8.24
164.5	2.59	2.66	3.72	3.58	4.83	5.74	5.57	6.11	7.53	7.80
165.0	3.31	2.68	3.83	3.61	4.25	5.50	5.27	5.98	6.91	7.41
165.5	2.78	3.14	3.82	3.54	4.26	5.12	5.29	5.53	6.42	7.15
166.0	3.09	3.22	3.56	3.06	4.10	5.19	5.37	5.64	6.43	6.77
166.5	2.98	2.96	3.23	3.43	3.86	5.05	4.87	5.20	6.01	6.62

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

167.0	2.86	2.86	3.41	3.19	3.62	4.60	4.70	5.12	6.02	6.38
167.5	2.74	3.14	3.53	2.94	3.56	4.37	4.96	5.07	5.83	6.39
168.0	3.15	2.98	3.28	3.21	3.80	4.68	4.71	4.98	5.78	5.94
168.5	2.88	2.70	3.42	3.32	3.90	4.20	4.45	4.73	5.38	5.86
169.0	2.71	2.82	3.44	3.25	3.88	3.77	4.18	4.37	4.49	5.31
169.5	2.92	2.91	3.59	3.13	3.66	4.14	4.00	4.20	4.76	5.36
170.0	3.23	2.80	3.43	3.08	3.51	4.06	3.72	4.13	4.66	4.65
170.5	3.13	3.10	3.24	2.82	3.48	3.70	4.15	4.53	4.67	4.37
171.0	3.16	3.04	3.05	3.11	3.38	3.94	3.78	3.89	4.15	4.57
171.5	3.39	2.97	3.19	2.80	3.05	3.58	3.94	4.07	4.09	4.49
172.0	3.16	2.94	3.05	3.27	3.47	3.55	3.55	3.78	4.08	4.34
172.5	2.66	2.88	2.80	2.83	3.05	3.18	3.28	3.61	3.87	3.81
173.0	2.84	2.97	3.00	3.07	3.49	3.25	3.32	3.50	3.73	3.65
173.5	2.47	2.88	2.94	3.31	2.80	3.36	3.33	3.30	3.74	3.46
174.0	3.12	2.70	3.32	2.47	3.01	2.85	3.20	3.06	3.08	3.53
174.5	3.11	2.75	2.87	2.62	2.77	3.16	3.27	3.05	3.54	3.38
175.0	2.96	2.47	2.93	2.91	2.93	2.88	3.22	3.01	3.27	3.37
175.5	3.08	2.85	2.96	2.69	2.82	2.64	2.70	2.72	3.21	3.19
176.0	2.95	2.87	2.84	2.51	2.59	3.11	2.98	2.95	3.16	3.23
176.5	3.41	2.44	2.79	2.53	2.71	2.74	2.94	2.77	3.06	3.14
177.0	2.52	2.75	2.57	2.87	3.21	2.74	2.80	2.64	3.22	3.22
177.5	2.69	2.69	2.80	2.61	2.45	2.62	2.35	2.55	3.18	2.76
178.0	3.01	2.53	2.93	2.60	3.00	2.89	2.68	2.41	2.65	2.70
178.5	2.63	2.40	2.80	2.71	2.79	2.88	2.82	2.43	2.67	3.18
179.0	2.88	2.57	3.03	2.41	3.04	2.77	2.55	2.29	2.47	2.69
179.5	3.19	2.89	2.57	2.51	2.52	2.64	2.69	2.58	2.09	2.92
180.0	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64

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

	<b>70.0</b>	<b>80.0</b>	<b>90.0</b>
0.0	988.32	988.32	988.32
0.5	987.99	988.34	989.97
1.0	988.77	988.88	990.06
1.5	990.17	991.05	992.41
2.0	992.27	993.16	994.49
2.5	995.47	995.95	997.54
3.0	998.06	999.18	1001.08
3.5	1001.05	1001.80	1003.42
4.0	1003.47	1004.64	1005.97
4.5	1005.79	1006.88	1008.62
5.0	1008.53	1009.50	1011.58
5.5	1011.33	1011.56	1013.62
6.0	1013.69	1012.92	1014.28
6.5	1015.38	1013.73	1014.88
7.0	1015.88	1013.39	1013.88
7.5	1015.59	1012.51	1012.09
8.0	1014.16	1009.79	1009.64
8.5	1011.59	1006.78	1006.06
9.0	1007.38	1001.90	1000.93
9.5	1002.95	996.97	994.85
10.0	997.48	990.37	987.85
10.5	990.64	983.16	980.15
11.0	983.03	976.38	972.88
11.5	975.77	969.89	966.46
12.0	969.01	963.46	960.50



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

12.5	963.00	958.14	955.83
13.0	957.70	954.02	952.53
13.5	953.64	950.80	949.95
14.0	950.16	948.75	948.58
14.5	948.52	949.06	948.79
15.0	947.93	950.63	950.27
15.5	948.84	953.44	953.26
16.0	951.17	957.84	957.37
16.5	954.05	961.68	960.79
17.0	957.88	965.13	964.25
17.5	961.16	968.02	967.23
18.0	963.40	969.88	968.66
18.5	964.69	969.47	967.82
19.0	963.90	966.55	964.69
19.5	961.94	961.96	959.48
20.0	958.14	956.10	952.77
20.5	952.71	948.63	945.33
21.0	946.03	940.61	937.43
21.5	938.40	932.13	928.27
22.0	930.28	923.76	920.10
22.5	922.32	916.01	912.87
23.0	913.84	909.32	905.72
23.5	906.26	903.29	900.61
24.0	899.66	899.03	896.14
24.5	894.44	895.73	893.82
25.0	889.72	893.68	891.94
25.5	886.46	892.36	891.95
26.0	884.48	890.48	891.26
26.5	882.37	888.22	888.96
27.0	880.81	884.51	885.47
27.5	879.05	880.29	880.75
28.0	876.07	874.53	874.69
28.5	871.78	868.69	868.54
29.0	867.05	863.37	862.89
29.5	861.29	857.76	857.46
30.0	855.45	853.10	852.33
30.5	849.72	848.69	847.96
31.0	844.51	844.71	846.24
31.5	839.47	841.03	844.25
32.0	835.22	837.61	841.64
32.5	830.79	834.21	838.85
33.0	826.29	829.93	835.50
33.5	821.77	824.61	828.73
34.0	816.73	817.91	820.85
34.5	811.53	809.72	811.59
35.0	805.68	800.80	801.16
35.5	798.56	790.97	790.56
36.0	791.15	781.65	780.22
36.5	782.11	772.23	771.64
37.0	772.45	763.89	764.38
37.5	762.99	756.28	756.77
38.0	753.25	748.53	749.93
38.5	744.29	741.39	742.26
39.0	735.83	734.07	734.42
39.5	726.97	726.27	726.83
40.0	718.23	717.99	718.78

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

40.5	709.33	709.65	711.03
41.0	700.58	701.05	703.10
41.5	691.79	692.61	696.01
42.0	682.50	685.00	688.85
42.5	672.77	676.56	680.38
43.0	663.25	667.78	672.18
43.5	653.48	658.27	662.44
44.0	643.57	647.98	652.25
44.5	633.08	637.03	639.78
45.0	622.37	624.95	627.07
45.5	610.76	612.24	613.99
46.0	598.85	598.58	598.60
46.5	586.24	584.82	583.61
47.0	573.63	569.93	568.19
47.5	560.53	555.47	552.91
48.0	546.70	540.00	536.72
48.5	533.18	524.57	521.51
49.0	519.20	509.16	506.12
49.5	504.89	493.93	490.23
50.0	490.67	479.15	475.38
50.5	476.25	463.95	460.13
51.0	461.61	448.89	445.69
51.5	447.12	434.73	431.36
52.0	432.77	420.80	416.82
52.5	418.43	407.01	403.19
53.0	404.38	393.55	389.34
53.5	391.44	380.84	376.81
54.0	378.36	368.27	364.55
54.5	365.46	356.31	352.35
55.0	353.09	344.74	340.77
55.5	341.41	333.86	329.88
56.0	330.16	323.57	318.90
56.5	319.44	313.41	309.22
57.0	309.44	303.50	298.89
57.5	299.52	293.80	289.69
58.0	289.92	284.26	280.24
58.5	280.45	275.47	270.59
59.0	271.82	266.21	261.54
59.5	262.99	257.25	253.33
60.0	254.49	248.81	244.16
60.5	246.42	240.43	236.26
61.0	238.32	232.08	228.36
61.5	230.50	224.11	220.46
62.0	223.35	216.80	213.07
62.5	216.12	209.40	205.19
63.0	208.65	201.84	198.16
63.5	202.08	194.88	190.90
64.0	194.92	188.06	184.42
64.5	188.31	181.98	177.95
65.0	182.28	176.38	172.96
65.5	176.62	170.81	167.04
66.0	170.72	165.13	162.11
66.5	165.56	160.29	157.47
67.0	160.62	155.25	152.62
67.5	156.01	150.70	148.00
68.0	150.96	145.88	143.44

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

<b>68.5</b>	146.17	141.60	139.60
<b>69.0</b>	141.85	136.95	135.33
<b>69.5</b>	137.51	133.05	131.30
<b>70.0</b>	133.09	128.92	127.67
<b>70.5</b>	129.15	125.43	124.36
<b>71.0</b>	125.31	121.88	121.00
<b>71.5</b>	121.48	118.86	118.03
<b>72.0</b>	118.21	116.06	116.05
<b>72.5</b>	115.47	113.61	114.35
<b>73.0</b>	113.02	111.38	112.21
<b>73.5</b>	110.21	109.05	110.66
<b>74.0</b>	107.81	107.35	108.32
<b>74.5</b>	105.19	105.56	107.54
<b>75.0</b>	103.27	104.40	106.80
<b>75.5</b>	101.13	103.06	105.86
<b>76.0</b>	99.79	102.29	105.43
<b>76.5</b>	98.59	101.61	105.40
<b>77.0</b>	97.91	101.76	106.09
<b>77.5</b>	96.62	102.33	106.15
<b>78.0</b>	96.50	102.21	106.79
<b>78.5</b>	95.99	102.01	106.70
<b>79.0</b>	95.88	102.40	106.88
<b>79.5</b>	95.09	102.91	108.09
<b>80.0</b>	95.03	102.83	107.26
<b>80.5</b>	94.99	102.32	107.16
<b>81.0</b>	94.10	101.48	106.76
<b>81.5</b>	93.15	100.65	105.45
<b>82.0</b>	92.41	99.60	103.35
<b>82.5</b>	91.12	97.57	101.03
<b>83.0</b>	89.25	94.74	97.57
<b>83.5</b>	86.99	91.20	93.42
<b>84.0</b>	83.90	86.47	88.12
<b>84.5</b>	80.21	82.72	83.11
<b>85.0</b>	76.21	77.93	78.51
<b>85.5</b>	71.96	73.63	74.15
<b>86.0</b>	67.89	69.79	70.10
<b>86.5</b>	63.84	66.23	67.18
<b>87.0</b>	60.75	63.36	64.04
<b>87.5</b>	57.02	60.46	62.05
<b>88.0</b>	55.33	59.08	60.89
<b>88.5</b>	53.18	57.36	59.34
<b>89.0</b>	52.05	56.36	57.98
<b>89.5</b>	50.82	55.69	57.83
<b>90.0</b>	50.47	56.02	58.40
<b>90.5</b>	50.56	57.65	60.50
<b>91.0</b>	52.13	58.88	62.15
<b>91.5</b>	53.61	61.24	63.80
<b>92.0</b>	55.37	63.07	65.98
<b>92.5</b>	56.66	64.80	67.50
<b>93.0</b>	58.76	66.47	69.97
<b>93.5</b>	60.49	68.53	71.44
<b>94.0</b>	62.26	70.30	73.21
<b>94.5</b>	63.47	71.52	74.61
<b>95.0</b>	64.49	72.92	75.99
<b>95.5</b>	66.21	74.04	76.54
<b>96.0</b>	67.70	75.03	77.38

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

<b>96.5</b>	68.61	74.97	76.05
<b>97.0</b>	68.63	74.77	75.96
<b>97.5</b>	68.83	73.78	74.53
<b>98.0</b>	68.40	72.54	73.12
<b>98.5</b>	68.11	71.29	71.61
<b>99.0</b>	67.00	69.98	70.18
<b>99.5</b>	65.82	67.78	68.25
<b>100.0</b>	64.56	66.33	66.30
<b>100.5</b>	62.96	64.69	65.26
<b>101.0</b>	61.27	63.16	62.93
<b>101.5</b>	60.10	61.20	61.29
<b>102.0</b>	58.61	59.77	60.13
<b>102.5</b>	56.87	58.03	58.09
<b>103.0</b>	54.89	56.14	56.50
<b>103.5</b>	53.49	54.08	54.36
<b>104.0</b>	51.67	51.97	52.58
<b>104.5</b>	50.17	50.61	51.17
<b>105.0</b>	48.82	49.55	49.87
<b>105.5</b>	47.82	48.62	48.53
<b>106.0</b>	46.55	47.82	47.60
<b>106.5</b>	45.70	46.82	46.96
<b>107.0</b>	44.61	46.07	46.12
<b>107.5</b>	43.98	45.19	45.43
<b>108.0</b>	43.75	44.37	44.52
<b>108.5</b>	43.28	43.86	44.60
<b>109.0</b>	42.74	43.83	43.71
<b>109.5</b>	42.60	43.66	43.88
<b>110.0</b>	42.37	43.39	43.25
<b>110.5</b>	42.45	43.17	43.11
<b>111.0</b>	42.47	43.00	43.10
<b>111.5</b>	42.33	42.88	42.67
<b>112.0</b>	42.62	43.50	43.65
<b>112.5</b>	42.26	43.27	43.63
<b>113.0</b>	42.99	43.77	43.97
<b>113.5</b>	43.15	43.87	43.68
<b>114.0</b>	43.52	44.04	44.36
<b>114.5</b>	43.47	44.48	44.17
<b>115.0</b>	44.24	44.73	44.75
<b>115.5</b>	44.38	44.90	45.14
<b>116.0</b>	44.77	45.40	45.29
<b>116.5</b>	45.09	45.48	45.55
<b>117.0</b>	45.51	46.20	45.77
<b>117.5</b>	45.72	46.64	46.40
<b>118.0</b>	46.00	46.66	46.67
<b>118.5</b>	46.61	47.18	46.85
<b>119.0</b>	47.09	47.60	47.28
<b>119.5</b>	47.14	47.91	47.57
<b>120.0</b>	47.68	47.78	48.03
<b>120.5</b>	47.55	47.80	47.90
<b>121.0</b>	47.93	48.34	48.19
<b>121.5</b>	47.94	48.54	48.40
<b>122.0</b>	48.47	48.71	48.53
<b>122.5</b>	48.35	49.08	49.15
<b>123.0</b>	48.45	48.83	48.81
<b>123.5</b>	48.77	49.55	48.86
<b>124.0</b>	48.60	48.99	49.79

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**CANDELA TABULATION - (Cont.)**

124.5	48.65	48.97	48.56
125.0	48.25	49.10	48.85
125.5	48.02	48.69	48.97
126.0	47.89	48.66	48.47
126.5	47.80	48.31	48.32
127.0	47.46	48.40	47.98
127.5	47.38	47.56	48.09
128.0	46.79	47.47	47.73
128.5	46.28	47.03	47.62
129.0	46.07	46.75	46.78
129.5	45.45	46.04	46.38
130.0	45.18	45.62	46.43
130.5	44.18	45.25	45.25
131.0	43.54	44.48	44.89
131.5	42.92	44.17	43.97
132.0	42.30	43.58	43.45
132.5	41.58	42.74	42.42
133.0	41.08	42.05	42.12
133.5	40.42	41.33	41.46
134.0	39.37	40.57	40.70
134.5	38.69	39.78	40.12
135.0	38.25	39.32	39.12
135.5	36.68	38.30	38.65
136.0	36.40	37.46	37.54
136.5	35.12	36.82	36.80
137.0	34.59	35.90	36.63
137.5	33.70	35.03	35.53
138.0	32.81	34.21	34.41
138.5	31.93	33.60	33.54
139.0	31.06	32.76	33.34
139.5	30.16	31.83	32.49
140.0	29.71	31.11	31.61
140.5	28.77	30.04	30.33
141.0	27.82	29.00	29.96
141.5	27.16	28.57	28.97
142.0	26.34	27.68	27.85
142.5	25.72	27.60	27.38
143.0	24.64	26.30	26.77
143.5	24.27	25.20	25.99
144.0	23.12	24.49	24.87
144.5	22.98	24.27	24.28
145.0	22.19	23.27	23.83
145.5	21.70	23.02	23.03
146.0	21.23	22.62	22.61
146.5	20.27	21.64	21.83
147.0	19.54	20.96	21.55
147.5	19.17	20.61	20.97
148.0	18.53	19.78	19.93
148.5	18.39	19.45	19.31
149.0	17.59	18.71	18.85
149.5	17.50	18.46	18.95
150.0	17.09	17.74	18.40
150.5	16.57	17.12	17.59
151.0	16.16	16.80	17.32
151.5	15.37	16.24	17.06
152.0	15.41	16.20	16.27

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

152.5	14.79	15.96	15.82
153.0	14.58	15.50	15.53
153.5	14.08	15.06	15.16
154.0	13.70	14.76	14.85
154.5	13.10	14.15	14.49
155.0	12.81	13.59	14.28
155.5	12.66	13.58	13.27
156.0	12.42	13.22	13.55
156.5	12.01	12.82	13.05
157.0	11.73	12.48	12.84
157.5	11.65	12.11	12.22
158.0	10.97	11.98	12.13
158.5	10.77	11.63	11.58
159.0	10.34	11.68	11.10
159.5	10.06	11.33	10.79
160.0	9.94	10.79	10.89
160.5	9.48	10.23	10.77
161.0	9.70	10.05	10.23
161.5	9.03	10.02	9.68
162.0	8.91	9.72	9.65
162.5	8.65	9.22	9.47
163.0	8.29	9.24	9.26
163.5	8.20	9.02	8.71
164.0	7.91	8.60	8.98
164.5	7.37	8.36	8.39
165.0	7.44	8.02	7.95
165.5	7.30	7.48	7.58
166.0	7.01	7.42	6.94
166.5	6.53	7.18	7.26
167.0	6.46	6.87	6.75
167.5	5.94	6.82	6.31
168.0	5.62	6.55	6.41
168.5	5.87	5.94	5.94
169.0	5.01	5.77	6.42
169.5	5.09	5.65	5.79
170.0	4.84	5.19	5.76
170.5	4.42	5.21	5.03
171.0	4.14	5.19	5.06
171.5	4.17	4.74	4.79
172.0	4.18	4.66	4.28
172.5	3.89	4.91	4.03
173.0	3.57	3.94	3.95
173.5	3.12	4.25	3.99
174.0	3.23	3.41	3.91
174.5	3.24	3.63	3.74
175.0	3.06	3.69	3.32
175.5	3.16	3.30	3.36
176.0	3.17	3.16	3.01
176.5	2.68	3.31	2.96
177.0	2.75	3.11	2.91
177.5	2.63	3.04	2.72
178.0	2.53	2.85	2.84
178.5	2.50	3.00	2.75
179.0	2.31	2.63	3.06
179.5	2.29	2.48	2.85
180.0	2.64	2.64	2.64

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 770-48LED23DMV30.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	368.66	N.A.	13.90
0-30	783.94	N.A.	29.60
0-40	1281.83	N.A.	48.50
0-60	2111.62	N.A.	79.80
0-80	2419.27	N.A.	91.40
0-90	2478.27	N.A.	93.70
10-90	2382.67	N.A.	90.10
20-40	913.17	N.A.	34.50
20-50	1397.79	N.A.	52.80
40-70	1027.88	N.A.	38.90
60-80	307.65	N.A.	11.60
70-80	109.56	N.A.	4.10
80-90	59.01	N.A.	2.20
90-110	73.55	N.A.	2.80
90-120	103.65	N.A.	3.90
90-130	132.40	N.A.	5.00
90-150	161.05	N.A.	6.10
90-180	167.36	N.A.	6.30
110-180	93.81	N.A.	3.50
0-180	2645.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.60
10-20	273.06
20-30	415.28
30-40	497.89
40-50	484.63
50-60	345.17
60-70	198.09
70-80	109.56
80-90	59.01
90-100	38.95
100-110	34.60
110-120	30.10
120-130	28.75
130-140	19.11
140-150	9.54
150-160	4.36
160-170	1.62
170-180	0.33

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 770-48LED23DMV30.IES**

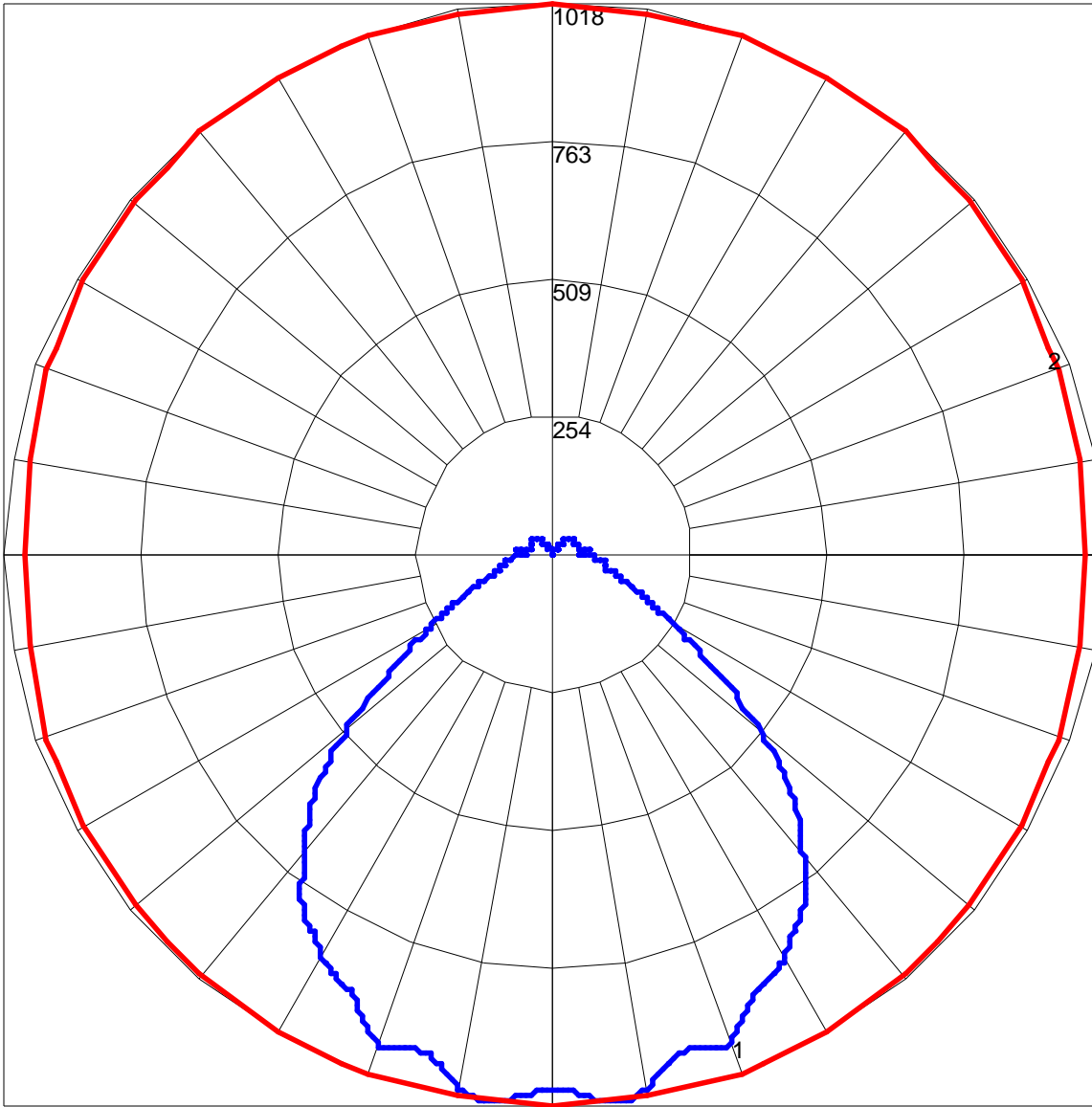
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	108	104	100	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80
2	99	91	85	80	96	89	83	78	85	80	76	80	77	73	77	73	71	68
3	91	81	74	68	88	79	72	67	75	69	65	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	58	52	48	56	51	47	45
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39
7	66	54	45	39	64	53	45	39	50	43	38	49	42	38	47	41	37	35
8	62	49	41	35	60	48	40	35	46	39	34	45	38	34	43	37	33	31
9	58	45	37	32	56	44	37	32	43	36	31	41	35	31	40	34	30	28
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	28	26



POLAR GRAPH



Maximum Candela = 1017.55 Located At Horizontal Angle = 67.5, Vertical Angle = 7  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)