



IES INDOOR REPORT
PHOTOMETRIC FILENAME : TWO S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 7,997
 [TESTLAB] CSA Group
 [ISSUEDATE] 5/7/2015 12:12:01 PM
 [MANUFAC] 3FORM
 [LUMINAIRE] 2S
 [_AMBIENT] 25.2 deg C
 [_POWERFACTOR] 0.9897
 [_ATHD] 8.51%
 [_CURRENT] 0.35
 [_VOLTAGE] 120.09
 [_STABILIZATION] 22:12.0 Stable
 [_POWER VARIATION] 0.34 %
 [_LIGHT VARIATION] 0.47 %
 [_Lumens] 2,916.54

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2917
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	41.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

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

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28
2.5	895.33	895.30	895.80	895.87	896.59	895.97	895.71	896.29	895.77	896.40
5.0	892.37	892.73	893.41	893.54	893.23	893.64	892.60	892.54	892.10	892.27
7.5	886.39	887.78	887.62	887.30	887.27	887.43	887.98	886.80	887.67	887.33
10.0	879.38	878.87	879.35	880.23	881.08	880.18	879.63	879.34	879.35	879.52
12.5	869.57	869.52	870.33	871.14	870.53	870.96	870.16	870.68	868.94	868.79
15.0	856.64	857.58	858.32	857.93	857.81	858.45	858.35	857.47	857.63	857.36
17.5	843.18	842.62	843.44	844.20	844.88	844.03	843.71	843.45	842.63	842.82
20.0	826.44	826.91	827.87	828.79	828.74	829.24	828.84	828.08	826.32	826.41
22.5	808.41	809.30	809.66	809.95	810.83	810.56	810.58	809.43	809.22	808.89
25.0	788.71	788.20	789.26	790.49	791.99	790.97	789.88	789.63	788.79	788.95
27.5	765.72	767.55	768.67	769.59	769.92	770.17	769.29	768.81	766.69	766.74
30.0	742.27	744.17	744.87	745.64	746.84	746.62	746.54	745.40	744.70	744.33
32.5	717.07	718.73	720.19	722.18	722.78	722.53	721.71	720.48	719.58	719.00
35.0	690.51	693.06	695.31	696.29	696.64	696.85	696.11	695.57	693.74	693.18
37.5	664.35	665.88	666.59	667.63	669.20	668.98	669.96	667.85	667.39	666.69
40.0	635.73	637.14	639.16	640.53	641.72	641.13	641.21	640.55	638.81	638.28
42.5	605.98	608.28	609.56	611.88	612.12	612.74	612.15	611.14	610.12	608.97
45.0	576.11	577.85	579.54	581.14	581.87	582.61	581.91	580.81	580.14	579.71
47.5	545.17	546.33	548.85	550.36	551.14	552.19	550.83	550.48	549.21	549.04
50.0	511.81	515.83	514.92	519.44	519.14	520.85	519.97	519.45	517.54	516.95
52.5	479.30	481.79	482.81	484.86	486.52	486.51	486.98	484.63	484.10	484.10
55.0	446.05	447.54	450.17	452.70	453.70	454.32	453.76	452.13	450.83	450.70
57.5	412.89	415.38	417.90	419.41	420.99	420.68	420.88	419.77	418.55	417.57
60.0	380.25	381.57	384.13	386.27	386.82	387.61	388.06	386.39	384.58	385.65
62.5	345.37	347.68	351.15	352.43	354.53	354.79	353.98	353.89	351.31	351.24
65.0	312.57	314.08	315.97	318.35	321.22	320.55	320.69	319.64	318.67	317.62
67.5	278.18	279.57	282.73	284.87	286.90	287.56	286.25	286.26	284.96	284.15
70.0	245.33	246.59	249.09	251.10	252.92	254.10	253.58	252.46	252.32	251.29
72.5	211.41	213.30	215.03	218.18	218.99	220.70	220.62	219.37	218.48	217.96
75.0	177.28	179.39	182.18	184.88	186.68	187.19	187.52	186.29	184.88	184.88
77.5	144.71	146.40	149.24	152.25	154.24	155.03	155.17	152.91	152.06	151.74
80.0	112.70	114.46	118.57	120.40	120.97	122.44	122.76	121.73	120.44	119.91
82.5	81.58	83.61	86.63	88.90	90.71	91.53	91.46	90.81	88.87	88.54
85.0	51.30	53.71	56.55	58.48	60.51	61.77	61.37	61.11	59.28	58.68
87.5	27.72	28.61	31.03	33.89	36.01	36.05	35.57	34.92	35.73	32.07
90.0	22.94	24.15	26.08	28.05	28.95	29.05	28.36	26.88	35.04	23.80
92.5	24.74	25.78	28.00	29.62	30.66	30.69	29.89	28.28	34.35	24.59
95.0	27.58	28.60	30.74	32.21	32.96	32.92	32.20	30.52	33.67	26.95
97.5	31.41	31.65	32.89	35.24	35.76	35.54	34.94	32.99	32.98	29.54
100.0	34.60	34.99	35.19	36.45	38.58	38.58	37.46	35.72	33.28	31.95
102.5	38.30	38.61	38.75	37.74	39.41	40.72	40.51	38.53	36.37	35.58
105.0	40.40	40.93	41.73	38.90	40.48	41.42	41.46	40.69	39.16	38.75
107.5	43.27	43.60	44.34	42.42	41.32	42.83	42.92	41.49	40.37	39.81
110.0	46.79	46.20	46.55	47.01	42.43	44.16	44.10	43.31	42.28	41.56
112.5	48.82	48.83	48.81	49.16	46.42	44.90	45.39	44.64	43.65	43.38
115.0	52.03	51.14	50.39	50.31	50.79	47.74	46.38	45.79	45.44	44.96
117.5	52.32	52.25	51.50	51.73	52.46	51.65	49.12	47.34	46.86	46.17
120.0	54.91	53.59	53.00	52.85	53.51	53.67	52.08	50.28	48.70	47.98
122.5	54.81	54.72	54.72	54.74	54.94	54.89	54.32	52.97	51.18	50.21
125.0	55.98	56.10	56.51	56.49	56.79	56.02	55.26	54.48	52.57	52.05
127.5	57.51	57.65	57.84	57.76	57.85	56.99	55.99	55.08	53.91	54.19
130.0	58.93	60.00	59.25	58.96	58.50	57.56	56.70	55.82	55.90	56.08
132.5	60.06	60.07	60.35	59.84	59.38	58.19	57.70	57.00	56.40	57.25

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CANDELA TABULATION - (Cont.)

135.0	61.15	61.41	61.34	60.68	59.68	58.87	58.74	58.04	57.62	58.60
137.5	62.23	62.24	62.30	62.84	60.81	59.93	59.55	59.06	58.99	60.01
140.0	63.20	63.30	63.37	62.09	61.51	60.64	60.51	60.07	59.97	61.31
142.5	64.14	64.10	64.15	63.66	62.46	61.42	61.59	60.97	61.12	62.57
145.0	65.53	65.24	64.89	64.90	63.64	62.11	62.53	61.70	62.25	63.70
147.5	65.62	65.79	66.74	66.57	64.89	63.72	63.52	62.54	63.27	64.89
150.0	66.03	67.68	69.12	68.81	66.98	65.41	64.81	63.33	64.05	66.51
152.5	67.75	70.81	71.62	70.54	69.98	69.50	66.67	64.21	65.51	70.03
155.0	71.35	73.86	73.36	73.09	73.27	74.03	70.04	67.37	69.96	74.91
157.5	75.04	76.42	75.82	76.17	76.62	75.68	73.74	72.32	76.39	80.02
160.0	78.52	78.17	78.31	78.89	78.23	77.04	75.64	76.83	82.93	83.85
162.5	79.68	79.59	80.27	80.44	79.42	78.07	77.19	79.87	84.65	85.26
165.0	80.49	80.50	81.31	81.31	80.50	79.05	78.61	82.41	85.04	85.83
167.5	81.07	81.28	81.90	82.29	81.48	79.60	80.00	83.98	85.87	86.82
170.0	81.41	81.75	82.73	82.90	81.95	80.24	81.49	84.97	86.41	87.15
172.5	81.89	82.40	83.51	83.50	82.10	80.71	82.58	85.72	86.81	87.85
175.0	82.14	82.83	83.62	83.92	82.23	80.90	83.57	85.90	87.13	88.22
177.5	82.32	83.13	84.49	84.39	82.78	81.42	84.31	86.49	87.66	88.27
180.0	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21

**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>
0.0	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28
2.5	896.50	895.85	895.32	895.14	894.66	894.63	893.87	893.45	895.29	896.08
5.0	891.75	891.34	891.99	890.84	890.65	889.56	889.26	889.22	892.31	892.21
7.5	886.81	886.70	885.49	885.99	885.60	884.57	884.03	884.30	887.94	887.80
10.0	879.62	878.77	877.89	877.85	876.43	876.54	875.31	874.68	880.18	880.22
12.5	868.29	867.62	868.15	866.80	866.34	864.84	864.45	864.52	870.32	870.12
15.0	856.91	856.46	855.11	855.57	854.43	853.76	852.35	852.28	858.86	859.28
17.5	842.48	842.00	841.00	840.62	839.99	838.90	837.74	836.57	844.50	844.14
20.0	825.93	825.10	825.32	824.37	823.35	822.05	820.87	820.07	828.50	828.85
22.5	808.26	807.96	806.83	806.66	806.16	804.59	803.79	802.78	811.71	811.63
25.0	788.50	785.24	787.14	786.57	785.53	784.84	783.26	781.57	791.91	791.87
27.5	765.97	762.52	766.56	765.34	764.71	762.97	762.32	760.25	771.19	771.25
30.0	743.78	739.80	742.68	742.98	741.92	741.96	739.30	738.28	749.26	748.97
32.5	719.44	717.08	719.35	719.17	717.08	717.02	714.83	713.07	725.23	724.31
35.0	693.23	693.64	693.92	693.47	692.04	690.49	689.04	688.42	699.90	699.18
37.5	666.89	666.38	666.96	667.73	666.21	663.65	662.90	661.37	673.42	673.80
40.0	638.38	639.19	639.57	638.98	638.28	636.63	634.72	633.36	645.62	644.60
42.5	609.45	609.81	610.99	610.41	609.77	607.31	606.35	604.67	617.24	617.39
45.0	579.24	580.03	580.72	580.76	580.82	579.25	577.80	575.69	588.48	588.53
47.5	548.16	549.63	550.23	549.98	549.97	549.05	545.59	544.04	557.31	557.15
50.0	515.76	517.88	518.93	519.05	519.38	515.94	513.60	514.49	526.12	526.60
52.5	484.30	483.92	485.63	486.17	485.78	485.02	482.53	481.25	492.98	493.55
55.0	451.79	452.98	454.12	454.32	453.12	452.76	450.21	449.09	461.98	461.39
57.5	418.92	419.55	421.19	422.11	421.47	420.23	419.14	417.13	430.55	429.38
60.0	386.15	387.21	388.62	389.95	388.65	388.07	386.63	384.71	396.16	396.96
62.5	351.80	353.95	355.95	355.47	356.26	354.62	353.02	351.47	363.83	363.43
65.0	319.21	320.78	322.11	323.24	323.50	321.99	320.34	318.67	329.96	330.99
67.5	285.59	287.30	289.32	290.02	290.34	289.26	288.17	285.34	296.69	296.87
70.0	251.54	253.43	255.64	256.68	257.21	255.82	253.72	252.05	264.04	264.41
72.5	218.22	221.46	222.66	224.30	224.92	223.93	221.45	219.94	230.94	231.88
75.0	185.53	188.22	190.42	191.34	191.50	191.24	189.24	187.03	197.59	198.07
77.5	153.65	155.96	157.48	159.88	159.37	158.39	157.59	154.80	165.02	165.78
80.0	121.68	123.29	126.17	128.06	127.22	127.44	125.54	123.41	132.79	133.86

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CANDELA TABULATION - (Cont.)

82.5	90.45	93.07	95.30	97.03	97.29	96.41	94.44	92.85	101.20	101.75
85.0	60.50	63.36	65.97	66.80	67.82	66.58	65.15	63.07	71.29	71.46
87.5	34.68	36.88	39.11	40.32	40.66	40.09	38.16	36.17	42.81	43.82
90.0	24.80	27.44	29.42	30.52	30.58	29.56	27.89	25.49	25.10	26.21
92.5	25.98	28.58	30.68	32.05	32.25	31.55	29.83	27.77	25.29	26.74
95.0	28.15	30.99	33.03	34.48	34.77	34.04	32.82	30.36	28.04	29.47
97.5	30.80	33.37	35.85	37.02	37.39	37.19	34.77	33.75	31.31	32.37
100.0	33.10	35.88	38.56	40.03	40.34	38.39	37.20	36.67	34.33	35.39
102.5	36.68	39.14	41.37	42.30	41.08	39.74	39.42	39.74	37.53	38.70
105.0	39.63	41.14	42.57	43.13	42.68	41.26	43.64	41.90	39.88	40.19
107.5	40.66	41.90	43.65	44.71	43.65	42.63	45.16	44.24	42.73	42.81
110.0	42.45	43.91	45.21	45.60	45.10	46.10	47.72	46.54	45.50	45.37
112.5	43.93	45.19	46.77	46.78	47.10	48.28	49.00	48.66	48.62	48.09
115.0	45.91	46.87	47.60	48.84	49.29	51.48	51.82	50.26	49.89	50.03
117.5	46.96	48.01	48.94	50.12	52.46	53.87	52.89	52.40	52.36	52.30
120.0	48.92	50.33	51.10	53.78	55.54	56.34	55.19	53.94	53.83	55.02
122.5	50.57	51.96	53.47	55.95	58.34	57.92	56.95	55.57	54.58	55.91
125.0	52.81	54.01	55.95	59.01	60.26	59.57	58.22	56.38	56.77	56.67
127.5	55.12	56.07	58.93	60.54	60.69	61.04	59.61	58.12	58.30	58.32
130.0	56.72	58.49	59.96	61.60	61.91	62.53	60.92	59.48	59.76	60.00
132.5	57.89	59.58	61.33	62.65	63.28	63.49	62.15	60.92	61.41	61.55
135.0	59.60	61.05	62.29	63.68	64.36	64.67	62.96	61.38	62.90	62.83
137.5	60.80	62.29	63.41	64.56	65.18	65.59	63.97	62.10	63.32	63.45
140.0	62.30	63.43	64.65	65.50	66.16	66.45	64.60	62.89	64.36	64.34
142.5	63.51	64.87	66.59	66.86	66.74	67.18	64.99	63.23	65.38	64.92
145.0	65.10	66.95	68.47	68.67	67.51	67.79	65.48	63.92	66.64	65.56
147.5	67.32	69.87	70.73	70.89	70.16	68.56	66.09	64.59	68.18	67.15
150.0	70.69	72.71	72.80	73.72	74.05	69.60	66.52	65.58	70.31	68.78
152.5	74.45	75.02	75.66	77.08	77.75	71.61	68.17	68.78	72.02	70.63
155.0	76.97	77.97	79.54	80.26	77.87	74.09	71.37	73.48	75.18	73.12
157.5	80.61	81.93	83.29	81.31	78.12	75.05	74.69	77.03	77.87	76.07
160.0	84.53	85.30	84.48	81.78	78.18	76.10	77.44	78.73	79.79	78.65
162.5	85.60	86.43	84.60	81.96	78.34	77.35	79.48	79.18	80.56	80.55
165.0	86.50	86.90	85.00	81.75	78.94	78.50	80.31	80.14	81.33	82.25
167.5	87.39	87.34	84.97	81.85	79.58	79.55	80.98	80.75	81.90	83.17
170.0	87.81	87.39	84.62	81.59	79.72	80.84	81.19	81.21	82.26	83.39
172.5	88.66	87.37	84.30	81.64	80.12	81.30	81.65	81.51	82.59	83.60
175.0	89.08	87.31	83.93	81.52	80.53	81.26	81.68	81.83	82.33	83.65
177.5	89.11	87.35	84.08	81.32	80.82	81.49	81.99	82.08	82.44	83.56
180.0	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21

**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>
0.0	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28	897.28
2.5	896.65	897.11	896.47	896.89	896.09	896.04	895.93	895.76	896.32	895.95
5.0	892.32	892.44	893.51	892.50	892.71	893.45	892.97	893.69	894.27	894.09
7.5	888.23	887.29	887.32	887.42	888.03	887.06	888.57	888.58	888.57	888.98
10.0	880.45	880.78	880.62	881.12	880.31	880.50	880.41	880.65	881.12	881.41
12.5	869.87	870.54	871.05	870.24	870.49	871.22	871.47	872.16	873.22	872.33
15.0	859.10	858.72	858.52	859.01	859.35	858.14	859.48	859.81	859.92	860.91
17.5	845.32	845.27	845.37	845.44	844.54	844.96	844.73	845.73	845.94	846.57
20.0	828.63	828.94	829.68	828.64	829.10	829.13	829.62	830.66	831.17	832.26
22.5	811.51	811.67	811.08	811.79	812.15	811.01	811.89	812.62	812.13	814.50
25.0	792.91	793.27	792.87	793.19	792.06	792.60	792.16	792.64	793.51	794.52
27.5	770.90	771.91	772.11	771.43	771.69	771.59	771.50	772.75	773.10	774.47

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CANDELA TABULATION - (Cont.)

30.0	749.00	749.10	749.50	749.56	749.48	748.31	748.78	749.35	749.74	751.36
32.5	724.90	726.22	726.80	726.40	725.28	725.15	724.68	725.09	725.74	726.93
35.0	699.27	699.77	700.23	700.32	699.87	700.01	699.68	699.84	701.03	702.23
37.5	674.20	674.64	674.48	675.13	674.27	672.81	672.99	672.97	673.49	675.02
40.0	645.83	646.89	647.01	647.24	646.26	646.38	645.03	644.61	646.34	647.01
42.5	617.40	618.32	618.56	618.33	618.44	616.99	616.90	616.58	616.61	619.25
45.0	589.19	589.24	589.49	589.93	590.10	587.61	586.46	586.47	587.19	589.29
47.5	558.99	559.59	560.01	560.29	558.23	558.03	555.95	556.04	556.91	558.59
50.0	527.01	528.72	529.37	529.07	528.37	526.89	525.78	525.80	525.82	527.43
52.5	493.71	494.63	494.77	495.04	494.96	492.59	491.47	490.59	490.89	493.20
55.0	462.20	463.64	463.89	464.15	462.90	461.71	459.64	459.02	459.17	460.92
57.5	431.13	431.17	431.33	431.87	430.38	429.32	427.77	426.60	426.88	428.63
60.0	398.37	399.07	399.70	400.47	397.05	396.03	394.21	392.92	393.53	394.55
62.5	364.58	366.10	366.91	365.47	364.49	363.16	361.17	359.53	360.73	361.16
65.0	331.65	332.81	333.22	331.85	331.50	328.72	327.46	325.59	326.20	327.52
67.5	298.57	299.47	300.25	299.95	298.18	296.13	293.12	292.02	292.88	294.26
70.0	265.76	267.20	266.86	266.77	265.12	262.96	260.63	258.67	259.19	261.21
72.5	231.83	233.88	233.92	233.57	231.82	229.59	227.11	225.14	225.69	227.26
75.0	198.80	200.46	200.96	200.38	198.54	196.97	193.90	192.09	192.35	193.51
77.5	166.38	167.33	168.48	168.00	166.96	163.78	160.72	159.03	159.09	160.33
80.0	134.68	136.31	136.16	135.92	133.75	131.98	128.50	126.85	126.86	128.25
82.5	103.61	104.98	105.01	103.78	102.41	100.38	97.39	95.36	95.83	96.30
85.0	72.72	74.61	74.97	74.03	72.77	70.52	67.34	64.95	65.30	66.12
87.5	44.49	46.70	47.12	46.14	45.04	42.16	39.59	36.66	38.07	39.39
90.0	28.65	30.44	30.99	31.79	30.46	28.83	26.34	24.73	26.06	27.97
92.5	29.11	31.45	32.41	32.29	31.64	29.68	27.31	25.56	27.13	29.16
95.0	31.82	33.61	34.36	34.41	33.73	32.03	29.64	27.86	29.07	31.33
97.5	33.87	36.36	37.27	37.14	36.31	34.37	31.88	30.23	31.50	33.65
100.0	36.27	37.93	40.04	39.91	38.84	36.87	34.10	32.77	33.63	35.88
102.5	39.01	39.01	40.84	42.51	42.03	39.75	37.09	36.07	36.87	39.22
105.0	41.51	40.48	42.26	43.46	43.32	42.34	40.56	39.83	40.28	41.92
107.5	43.05	42.04	43.32	44.86	44.52	43.22	41.67	41.13	41.63	42.57
110.0	45.26	44.39	43.76	45.80	45.59	44.69	43.42	42.43	42.99	44.28
112.5	48.29	45.80	45.60	46.52	46.73	45.96	44.93	44.79	44.85	45.71
115.0	50.19	48.06	48.20	48.18	48.03	47.53	46.30	45.68	46.21	47.98
117.5	52.58	52.08	50.49	50.12	49.46	48.68	47.69	47.52	47.59	48.30
120.0	55.23	55.69	53.00	52.46	51.30	50.76	49.48	48.80	49.44	51.62
122.5	57.58	58.60	56.32	54.17	53.54	52.45	52.09	51.38	53.11	55.15
125.0	58.70	60.65	59.89	56.54	55.52	54.72	53.69	53.02	54.07	57.42
127.5	59.70	61.61	61.82	59.23	57.42	56.21	55.65	54.95	55.11	57.72
130.0	60.92	62.55	62.94	61.68	59.29	57.97	57.14	56.46	56.38	58.20
132.5	62.30	63.53	63.71	62.98	61.38	59.92	58.83	59.34	57.78	58.89
135.0	63.52	64.42	64.32	64.01	63.51	61.71	60.33	59.31	58.88	59.86
137.5	64.17	64.97	64.57	64.66	64.63	63.49	61.81	60.62	59.97	61.01
140.0	64.89	65.55	65.20	65.76	65.76	65.13	63.26	61.80	61.18	61.91
142.5	65.38	66.02	66.21	66.66	66.73	67.22	64.96	63.10	62.37	62.57
145.0	66.09	66.80	67.11	67.85	68.53	69.86	67.22	64.73	63.36	63.88
147.5	67.84	67.98	69.03	69.59	70.37	71.50	69.86	66.94	65.30	64.40
150.0	69.59	69.29	72.23	72.19	72.79	73.93	71.65	69.17	66.15	65.33
152.5	71.33	71.58	75.80	75.15	74.95	75.67	74.22	71.49	68.30	66.46
155.0	73.08	74.61	77.84	78.53	78.67	78.15	76.35	73.66	70.49	68.45
157.5	74.83	76.55	78.35	80.02	81.75	81.60	80.19	77.96	74.25	71.76
160.0	76.57	77.10	78.71	81.00	83.35	84.41	83.66	82.84	79.19	75.37
162.5	78.32	77.63	79.12	81.60	83.74	85.49	85.23	86.17	81.97	76.90
165.0	80.07	78.52	79.43	81.97	84.61	85.66	86.09	87.32	84.30	78.82
167.5	81.83	79.51	79.58	82.24	84.92	86.06	86.64	88.06	86.60	80.68

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CANDELA TABULATION - (Cont.)

170.0	83.51	80.61	79.77	82.21	85.02	86.28	86.96	88.67	87.80	82.77
172.5	83.87	82.00	79.95	82.15	85.12	86.45	87.55	88.77	88.66	84.69
175.0	84.44	82.98	80.66	81.89	84.75	86.68	87.50	88.82	89.02	85.80
177.5	84.71	83.49	81.43	81.54	84.46	86.74	87.68	88.80	88.99	86.57
180.0	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21	84.21

Vert. Horizontal Angles

Angles	300	310	320	330	340	350	360
0.0	897.28	897.28	897.28	897.28	897.28	897.28	897.28
2.5	897.06	895.92	895.81	895.22	895.12	895.47	895.33
5.0	893.56	893.74	893.56	893.70	893.65	893.50	892.37
7.5	888.90	889.28	889.59	888.78	889.26	889.94	886.39
10.0	882.63	881.87	882.23	881.96	881.78	882.41	879.38
12.5	872.69	873.88	873.43	874.14	873.96	874.12	869.57
15.0	861.57	862.36	862.80	861.81	861.83	863.10	856.64
17.5	848.34	847.78	847.81	848.45	848.12	848.70	843.18
20.0	832.12	833.34	833.21	834.05	834.23	834.19	826.44
22.5	815.19	816.31	816.34	816.42	816.39	816.85	808.41
25.0	796.07	796.38	796.45	796.54	797.00	796.61	788.71
27.5	774.59	776.17	776.03	777.27	776.71	776.65	765.72
30.0	752.58	753.43	754.45	753.59	754.24	754.37	742.27
32.5	729.05	728.90	729.86	729.67	729.29	729.21	717.07
35.0	702.75	704.55	705.67	704.83	704.94	704.30	690.51
37.5	677.15	677.71	679.16	677.75	678.41	678.28	664.35
40.0	649.84	649.25	650.31	650.47	649.94	650.14	635.73
42.5	620.56	621.44	622.65	622.56	621.66	620.74	605.98
45.0	591.40	592.17	593.12	592.50	590.97	590.44	576.11
47.5	560.12	561.43	561.35	561.62	559.76	559.13	545.17
50.0	528.38	530.30	530.57	531.06	529.14	528.22	511.81
52.5	494.80	496.04	496.37	496.26	494.34	493.76	479.30
55.0	463.09	462.72	464.56	463.67	462.06	461.04	446.05
57.5	430.28	430.85	432.02	430.50	429.91	428.45	412.89
60.0	396.87	397.02	397.80	396.36	396.26	393.85	380.25
62.5	363.08	363.68	364.07	362.80	362.83	360.76	345.37
65.0	329.62	330.10	330.98	330.03	328.66	327.20	312.57
67.5	296.19	296.27	296.55	295.80	294.58	292.75	278.18
70.0	261.50	262.71	262.83	261.49	261.25	258.60	245.33
72.5	227.88	228.59	228.83	227.73	225.88	224.87	211.41
75.0	194.65	195.29	195.50	194.59	192.68	191.22	177.28
77.5	162.31	163.32	162.97	162.63	160.48	158.71	144.71
80.0	130.01	130.84	130.62	128.92	127.74	125.56	112.70
82.5	98.60	99.28	98.73	97.68	95.86	93.76	81.58
85.0	67.74	68.47	68.04	66.72	64.83	62.90	51.30
87.5	41.09	41.63	40.48	39.89	38.12	35.51	27.72
90.0	30.08	30.58	31.10	29.55	27.67	25.04	22.94
92.5	30.99	31.69	31.53	30.38	28.60	26.01	24.74
95.0	33.16	33.89	33.83	33.03	31.35	28.73	27.58
97.5	35.50	36.38	36.53	35.95	33.77	31.73	31.41
100.0	38.23	39.41	39.57	37.44	35.62	34.82	34.60
102.5	41.40	42.24	40.78	39.12	38.49	38.23	38.30
105.0	43.01	42.66	41.87	40.23	42.33	41.16	40.40
107.5	43.71	44.21	43.00	42.83	45.30	43.48	43.27
110.0	45.67	45.65	44.11	47.35	47.87	46.12	46.79
112.5	47.60	46.72	47.43	50.45	49.84	48.70	48.82
115.0	47.94	48.69	52.88	52.64	51.70	50.91	52.03

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CANDELA TABULATION - (Cont.)

117.5	49.72	53.28	54.93	54.21	53.65	52.83	52.32
120.0	54.34	56.85	57.77	55.52	54.33	54.17	54.91
122.5	57.73	58.19	58.55	57.00	55.68	55.01	54.81
125.0	58.50	59.21	59.14	58.70	57.39	56.38	55.98
127.5	59.51	59.75	60.21	59.91	59.03	58.31	57.51
130.0	60.12	60.68	61.05	61.07	60.98	60.00	58.93
132.5	60.62	61.35	61.90	62.10	62.01	61.24	60.06
135.0	61.47	61.76	62.92	63.30	63.23	62.78	61.15
137.5	61.91	62.23	64.35	64.43	64.21	63.80	62.23
140.0	62.64	63.19	64.13	65.42	65.19	64.86	63.20
142.5	63.91	63.20	64.93	66.28	66.88	66.10	64.14
145.0	64.23	64.03	65.19	67.09	68.23	67.60	65.53
147.5	65.84	64.67	66.43	68.24	69.92	69.17	65.62
150.0	66.76	66.51	67.64	69.53	71.57	70.80	66.03
152.5	67.83	69.56	70.12	71.04	73.71	72.68	67.75
155.0	70.57	71.30	73.12	73.10	75.10	74.60	71.35
157.5	73.88	73.04	76.16	76.21	77.36	76.53	75.04
160.0	75.77	74.78	77.83	79.54	79.60	79.04	78.52
162.5	76.59	76.52	78.89	80.61	81.45	81.34	79.68
165.0	77.43	77.97	79.53	81.38	81.88	82.02	80.49
167.5	78.24	78.77	80.29	81.66	82.22	82.56	81.07
170.0	79.15	79.18	80.70	81.93	82.71	82.56	81.41
172.5	80.19	79.66	81.10	81.82	82.93	82.77	81.89
175.0	81.55	79.94	80.76	81.75	82.82	82.86	82.14
177.5	82.89	80.32	80.96	81.92	82.76	82.56	82.32
180.0	84.21	84.21	84.21	84.21	84.21	84.21	84.21

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	326.89	N.A.	11.20
0-30	691.36	N.A.	23.70
0-40	1127.68	N.A.	38.70
0-60	1987.37	N.A.	68.10
0-80	2510.82	N.A.	86.10
0-90	2586.06	N.A.	88.60
10-90	2501.25	N.A.	85.70
20-40	800.79	N.A.	27.40
20-50	1251.72	N.A.	42.90
40-70	1180.96	N.A.	40.50
60-80	523.45	N.A.	17.90
70-80	202.18	N.A.	6.90
80-90	75.24	N.A.	2.60
90-110	78.11	N.A.	2.70
90-120	126.53	N.A.	4.30
90-130	177.06	N.A.	6.10
90-150	266.00	N.A.	9.10
90-180	331.25	N.A.	11.40
110-180	253.14	N.A.	8.70
0-180	2917.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.80
10-20	242.09
20-30	364.47
30-40	436.32
40-50	450.94
50-60	408.75
60-70	321.27
70-80	202.18
80-90	75.24
90-100	34.71
100-110	43.41
110-120	48.41
120-130	50.53
130-140	47.61
140-150	41.33
150-160	34.19
160-170	23.08
170-180	7.98

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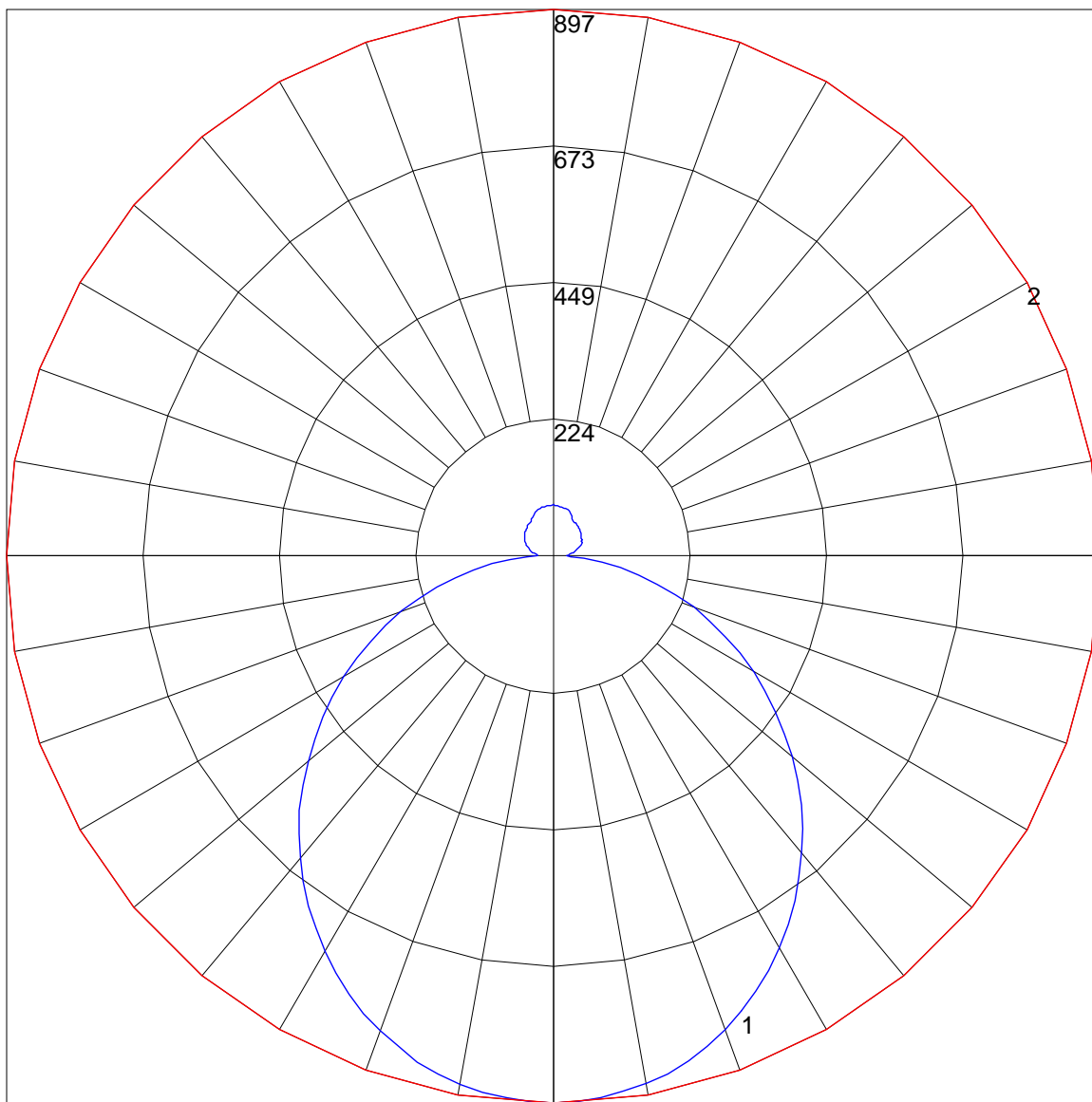
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	106	101	96	92	102	97	93	90	91	88	85	85	83	80	80	78	76	73
2	96	88	81	75	92	85	78	73	79	74	70	74	70	66	70	66	63	61
3	87	77	69	62	84	74	67	61	70	63	58	65	60	56	61	57	53	51
4	80	68	59	52	77	66	58	51	62	55	49	58	52	48	55	50	46	43
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	45	39	35	33
7	63	49	41	34	60	48	40	34	45	38	33	43	37	32	41	35	31	29
8	58	45	36	31	56	44	36	30	41	34	29	39	33	29	37	32	28	26
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	35	29	25	23
10	51	38	30	25	49	37	30	25	35	29	24	34	28	23	32	27	23	21

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POLAR GRAPH



Maximum Candela = 897.28 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.)