



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TAMLITE_RHR-1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 2022033002
 [TESTLAB]
 [TESTDATE] 2022-03-30
 [ISSUEDATE] 2022-03-30 17:01:17
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-2000H_V1 SYSTEM
 [MANUFAC] TAMLITE LIGHTING
 [LUMCAT] RHR-1-MULTIVOLT-WP
 [LUMINAIRE] SINGLE HEAD EMERGENCY REMOTE. 3-12VDC
 [LAMP]
 [OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	29.67	29.67	28.88	28.88
[OTHER]	10- 20	42.30	71.97	70.06	70.06
[OTHER]	20- 30	19.22	91.19	88.77	88.77
[OTHER]	30- 40	7.47	98.66	96.05	96.05
[OTHER]	40- 50	2.11	100.77	98.10	98.10
[OTHER]	50- 60	0.89	101.65	98.96	98.96
[OTHER]	60- 70	0.54	102.20	99.49	99.49
[OTHER]	70- 80	0.33	102.53	99.81	99.81
[OTHER]	80- 90	0.19	102.72	100.00	100.00
[OTHER]	90-100	0.00	102.72	100.00	100.00
[OTHER]	100-110	0.00	102.72	100.00	100.00
[OTHER]	110-120	0.00	102.72	100.00	100.00
[OTHER]	120-130	0.00	102.72	100.00	100.00
[OTHER]	130-140	0.00	102.72	100.00	100.00
[OTHER]	140-150	0.00	102.72	100.00	100.00
[OTHER]	150-160	0.00	102.72	100.00	100.00
[OTHER]	160-170	0.00	102.72	100.00	100.00
[OTHER]	170-180	0.00	102.72	100.00	100.00
[OTHER]					

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

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CHARACTERISTICS

Lumens Per Lamp	102.72 (1 lamp)
Total Lamp Lumens	102.72
Luminaire Lumens	103
Total Luminaire Efficiency	101 %
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.08 m (Diameter)
Luminous Width (90-270)	0.08 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	723	641	619
55	482	361	312
65	395	296	207
75	392	407	154
85	684	707	68

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	338.29	338.40	338.51	338.63	338.75	338.87	338.99	339.11	339.24	339.41
5.0	330.11	330.39	330.73	331.14	331.61	332.07	332.47	332.94	333.49	334.14
7.5	302.04	302.78	303.70	304.86	305.21	305.74	306.44	306.84	307.29	308.05
10.0	267.34	268.80	270.50	270.80	270.65	270.12	268.76	267.78	265.92	264.54
12.5	216.36	217.87	219.52	219.67	219.71	218.79	219.38	216.01	214.37	212.71
15.0	165.38	166.73	167.78	168.22	167.82	167.23	166.22	165.13	164.12	162.81
17.5	114.39	115.44	116.28	116.88	117.19	117.29	117.46	117.63	117.11	117.48
20.0	63.40	64.00	65.00	66.23	67.82	69.75	71.78	73.54	75.74	77.60
22.5	52.36	52.65	52.77	52.61	52.56	52.53	52.29	52.18	52.18	52.09
25.0	41.32	41.54	41.66	41.55	41.57	41.53	41.51	41.63	41.76	41.68
27.5	30.27	30.44	30.54	30.57	30.68	30.80	31.04	31.45	31.92	31.81
30.0	19.23	19.33	19.47	19.67	19.92	20.31	20.90	21.54	22.07	22.72
32.5	16.36	16.38	16.29	16.15	15.92	15.76	15.71	15.55	15.25	14.86
35.0	13.50	13.51	13.43	13.31	13.15	13.06	13.10	12.86	12.58	12.34
37.5	10.63	10.65	10.59	10.51	10.43	10.42	10.41	10.27	10.05	9.95
40.0	7.76	7.78	7.76	7.75	7.74	7.81	7.82	7.76	7.70	7.66
42.5	4.90	4.92	4.95	5.00	5.16	5.22	5.31	5.36	5.45	5.49
45.0	2.57	2.58	2.62	2.68	2.75	2.81	2.88	3.08	3.29	3.43
47.5	1.87	1.87	1.87	1.88	1.87	1.84	1.83	1.80	1.87	1.97
50.0	1.71	1.71	1.71	1.72	1.70	1.67	1.66	1.63	1.60	1.57
52.5	1.55	1.55	1.54	1.55	1.53	1.49	1.48	1.47	1.44	1.41
55.0	1.39	1.39	1.38	1.38	1.36	1.34	1.33	1.30	1.28	1.26
57.5	1.22	1.22	1.22	1.20	1.18	1.17	1.16	1.14	1.14	1.12
60.0	1.06	1.06	1.05	1.03	1.01	1.01	1.00	0.99	0.99	0.99
62.5	0.95	0.95	0.95	0.93	0.91	0.90	0.89	0.88	0.87	0.87
65.0	0.84	0.84	0.84	0.82	0.82	0.81	0.81	0.80	0.80	0.80
67.5	0.73	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
70.0	0.62	0.63	0.63	0.64	0.64	0.64	0.65	0.66	0.66	0.67
72.5	0.57	0.58	0.58	0.58	0.58	0.59	0.59	0.60	0.60	0.61
75.0	0.51	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54
77.5	0.46	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.49	0.49
80.0	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43
82.5	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37
85.0	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32
87.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
90.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	339.49	339.60	339.72	339.84	340.01	340.10	340.23	340.36	340.49	340.63
5.0	334.69	335.25	335.91	336.67	338.34	338.22	338.05	337.93	337.86	337.85
7.5	308.69	309.34	310.37	311.74	312.94	314.25	314.68	315.29	315.87	316.75
10.0	263.39	262.53	262.07	262.06	262.46	263.41	264.56	266.38	268.79	271.45
12.5	210.97	209.12	207.19	205.09	203.04	201.08	201.69	203.13	205.25	207.94
15.0	161.41	159.84	158.14	156.32	154.59	152.77	150.95	149.13	147.50	145.83
17.5	117.20	116.62	116.05	115.18	113.51	113.55	111.90	110.63	109.23	107.92
20.0	79.14	80.26	81.03	81.54	81.72	81.54	81.10	80.51	79.72	79.40
22.5	51.82	51.53	52.92	54.91	56.37	57.47	58.26	58.75	59.17	59.27
25.0	41.55	41.37	41.13	40.95	41.00	40.91	42.04	43.30	44.09	44.49
27.5	31.86	31.88	32.00	32.22	32.42	32.63	32.82	32.93	32.94	33.07
30.0	22.83	23.29	23.76	24.10	24.43	24.72	24.94	25.02	24.85	24.56

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CANDELA TABULATION - (Cont.)

32.5	14.61	15.42	15.99	16.51	16.96	17.49	17.73	17.67	17.58	17.46
35.0	12.14	11.72	11.13	10.53	10.34	10.84	11.14	11.36	11.43	11.69
37.5	9.71	9.28	8.84	8.43	7.77	7.01	6.24	6.25	6.79	7.27
40.0	7.43	7.14	6.85	6.42	5.81	5.18	4.67	4.21	3.88	3.97
42.5	5.37	5.24	5.05	4.66	4.23	3.85	3.49	3.24	3.01	2.72
45.0	3.52	3.56	3.47	3.28	3.02	2.83	2.65	2.50	2.28	2.13
47.5	2.05	2.10	2.18	2.18	2.15	2.08	2.02	1.91	1.80	1.77
50.0	1.52	1.48	1.45	1.49	1.50	1.53	1.53	1.49	1.48	1.50
52.5	1.37	1.34	1.29	1.26	1.22	1.19	1.21	1.20	1.24	1.24
55.0	1.24	1.19	1.15	1.13	1.10	1.08	1.06	1.03	1.04	1.03
57.5	1.10	1.05	1.04	1.00	0.99	0.98	0.94	0.94	0.92	0.90
60.0	0.96	0.93	0.92	0.89	0.90	0.88	0.84	0.84	0.82	0.79
62.5	0.83	0.81	0.81	0.79	0.80	0.78	0.75	0.74	0.72	0.71
65.0	0.76	0.76	0.72	0.72	0.72	0.66	0.66	0.64	0.63	0.63
67.5	0.71	0.71	0.69	0.69	0.69	0.63	0.60	0.57	0.55	0.54
70.0	0.66	0.66	0.66	0.66	0.65	0.61	0.59	0.56	0.54	0.49
72.5	0.61	0.62	0.63	0.63	0.61	0.59	0.58	0.55	0.54	0.49
75.0	0.55	0.56	0.57	0.58	0.57	0.55	0.55	0.56	0.53	0.50
77.5	0.49	0.50	0.51	0.51	0.50	0.50	0.49	0.50	0.48	0.47
80.0	0.44	0.44	0.45	0.46	0.44	0.44	0.43	0.43	0.42	0.41
82.5	0.38	0.38	0.38	0.39	0.38	0.38	0.37	0.37	0.37	0.36
85.0	0.32	0.32	0.32	0.33	0.32	0.32	0.31	0.31	0.31	0.30
87.5	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.26
90.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Vert. Horizontal Angles
Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	340.85	340.93	341.02	341.11	341.21	341.32	341.42	341.53	341.65	341.76
5.0	337.88	337.92	337.94	337.92	337.98	338.10	338.30	338.57	338.89	339.27
7.5	317.93	319.03	320.91	323.16	322.72	322.67	322.81	322.63	323.57	324.01
10.0	274.73	277.63	280.87	282.36	284.33	286.75	289.44	291.04	290.99	291.35
12.5	211.07	214.73	218.69	222.92	227.53	231.31	232.81	234.75	237.14	236.94
15.0	146.78	150.49	154.17	157.72	160.27	164.54	167.80	170.40	171.35	172.68
17.5	106.38	105.06	104.13	105.97	108.83	111.21	112.93	114.43	116.06	116.48
20.0	78.89	78.38	77.89	77.48	77.12	77.79	78.67	79.55	80.17	80.72
22.5	59.17	59.00	58.73	58.44	58.47	58.68	59.00	59.25	59.44	59.46
25.0	44.61	44.77	44.88	45.11	45.06	45.22	45.66	46.07	46.11	46.03
27.5	33.53	33.63	33.72	33.66	34.14	34.40	34.74	35.19	35.95	35.72
30.0	24.28	24.31	24.50	24.61	25.10	25.41	25.49	25.97	26.28	26.68
32.5	17.30	17.20	17.17	17.29	17.71	17.93	18.12	18.36	18.60	18.85
35.0	11.82	11.90	11.89	11.56	11.68	11.92	12.07	12.13	12.30	12.48
37.5	7.64	7.78	7.64	7.65	7.45	7.28	7.45	7.59	7.67	7.87
40.0	4.44	4.70	4.85	4.82	4.68	4.40	4.35	4.67	4.89	5.01
42.5	2.49	2.75	3.05	3.08	3.02	3.01	3.03	3.16	3.38	3.45
45.0	2.07	2.08	1.99	2.08	2.16	2.25	2.31	2.29	2.29	2.27
47.5	1.77	1.68	1.58	1.52	1.61	1.67	1.68	1.69	1.76	1.74
50.0	1.44	1.38	1.33	1.31	1.24	1.25	1.32	1.35	1.39	1.42
52.5	1.20	1.16	1.14	1.09	1.06	1.02	1.01	1.08	1.11	1.14
55.0	1.02	1.00	0.98	0.95	0.91	0.87	0.87	0.86	0.90	0.94
57.5	0.88	0.88	0.86	0.82	0.79	0.78	0.75	0.72	0.75	0.77
60.0	0.79	0.77	0.74	0.72	0.71	0.69	0.67	0.64	0.59	0.63
62.5	0.70	0.67	0.65	0.64	0.64	0.62	0.58	0.56	0.54	0.52
65.0	0.61	0.58	0.57	0.57	0.56	0.55	0.53	0.51	0.49	0.45
67.5	0.51	0.49	0.50	0.49	0.50	0.50	0.49	0.48	0.44	0.41

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CANDELA TABULATION - (Cont.)

70.0	0.44	0.42	0.42	0.44	0.45	0.43	0.42	0.43	0.42	0.38
72.5	0.45	0.42	0.39	0.38	0.39	0.36	0.35	0.36	0.36	0.37
75.0	0.47	0.43	0.42	0.40	0.34	0.28	0.27	0.28	0.30	0.31
77.5	0.47	0.45	0.44	0.42	0.37	0.32	0.26	0.22	0.23	0.24
80.0	0.41	0.40	0.40	0.41	0.39	0.36	0.33	0.28	0.22	0.16
82.5	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.32	0.26
85.0	0.31	0.30	0.30	0.30	0.29	0.29	0.30	0.29	0.30	0.28
87.5	0.25	0.25	0.25	0.25	0.24	0.24	0.25	0.24	0.25	0.24
90.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Vert. Angles **Horizontal Angles**

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	341.88	342.00	342.11	342.23	342.35	342.46	342.58	342.47	342.37	342.26
5.0	339.71	340.18	340.60	341.20	341.80	342.41	343.01	342.60	342.19	341.78
7.5	324.63	325.45	326.43	327.57	328.86	330.28	331.82	330.86	330.02	329.31
10.0	292.10	293.25	294.76	295.33	298.25	301.18	304.12	302.33	300.55	298.77
12.5	239.15	239.84	241.12	243.01	245.50	248.59	252.29	250.02	248.37	247.35
15.0	174.20	174.10	174.59	175.76	175.98	179.75	183.53	180.84	178.17	179.11
17.5	116.72	117.26	117.44	118.03	119.11	120.73	122.97	121.36	120.39	120.03
20.0	81.16	81.48	81.69	81.82	81.39	82.98	84.57	83.29	82.01	82.81
22.5	59.62	59.15	59.90	60.26	60.87	61.56	62.62	62.00	61.69	61.65
25.0	46.07	46.27	46.37	46.50	46.64	46.85	47.56	47.06	47.09	47.23
27.5	35.72	35.87	35.98	36.19	36.19	36.38	36.76	36.63	36.70	36.95
30.0	26.71	26.91	27.20	27.40	27.54	27.73	28.33	28.05	28.19	28.37
32.5	19.01	19.09	19.13	19.50	19.69	19.95	20.42	20.14	20.08	20.09
35.0	12.71	12.74	12.87	12.99	12.98	12.79	12.94	12.73	12.91	12.98
37.5	8.04	8.20	8.16	8.15	8.19	8.22	8.37	8.20	8.16	8.09
40.0	5.20	5.41	5.43	5.53	5.62	5.54	5.56	5.32	5.25	5.20
42.5	3.40	3.34	3.32	3.36	3.40	3.37	3.37	3.31	3.29	3.28
45.0	2.23	2.20	2.17	2.23	2.26	2.21	2.20	2.21	2.27	2.28
47.5	1.73	1.74	1.73	1.76	1.83	1.81	1.76	1.82	1.86	1.84
50.0	1.39	1.38	1.38	1.40	1.48	1.47	1.43	1.46	1.49	1.44
52.5	1.15	1.12	1.10	1.09	1.17	1.17	1.11	1.19	1.20	1.14
55.0	0.96	0.94	0.91	0.89	0.96	0.98	0.90	0.99	0.98	0.91
57.5	0.81	0.82	0.79	0.76	0.80	0.84	0.76	0.85	0.81	0.77
60.0	0.68	0.73	0.71	0.67	0.67	0.73	0.64	0.73	0.68	0.67
62.5	0.56	0.62	0.63	0.57	0.54	0.63	0.55	0.64	0.54	0.57
65.0	0.44	0.50	0.56	0.51	0.45	0.55	0.44	0.55	0.47	0.52
67.5	0.39	0.41	0.46	0.46	0.39	0.47	0.38	0.48	0.40	0.46
70.0	0.37	0.34	0.37	0.43	0.37	0.41	0.34	0.40	0.37	0.42
72.5	0.33	0.27	0.26	0.34	0.32	0.30	0.25	0.30	0.32	0.33
75.0	0.31	0.27	0.21	0.24	0.29	0.21	0.20	0.21	0.29	0.24
77.5	0.25	0.27	0.21	0.15	0.26	0.17	0.16	0.17	0.26	0.15
80.0	0.19	0.22	0.24	0.17	0.16	0.16	0.12	0.16	0.15	0.16
82.5	0.21	0.15	0.16	0.19	0.10	0.17	0.06	0.17	0.10	0.18
85.0	0.28	0.24	0.16	0.11	0.16	0.08	0.03	0.08	0.16	0.07
87.5	0.24	0.24	0.24	0.24	0.13	0.12	0.03	0.11	0.07	0.12
90.0	0.20	0.20	0.20	0.20	0.20	0.20	0.05	0.05	0.05	0.05

Vert. Angles **Horizontal Angles**

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	342.15	342.04	341.93	341.82	341.72	341.61	341.51	341.42	341.32	341.23

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CANDELA TABULATION - (Cont.)

5.0	341.37	341.08	340.74	340.44	340.16	339.77	339.70	339.53	339.40	339.31
7.5	328.71	328.26	327.79	327.76	327.74	327.24	327.70	327.85	328.15	328.29
10.0	299.26	298.81	298.68	298.88	299.43	300.31	299.48	297.49	295.72	294.39
12.5	246.96	247.21	248.12	247.44	248.81	247.45	246.57	246.17	243.15	239.22
15.0	179.20	180.02	181.40	181.15	181.05	181.40	179.84	177.64	174.42	173.10
17.5	120.23	120.69	121.18	121.79	122.25	121.28	120.46	119.52	118.05	116.64
20.0	83.07	83.25	83.35	83.37	83.23	82.69	82.52	82.32	82.21	83.00
22.5	61.79	61.27	61.91	61.74	61.65	61.69	61.48	61.57	61.63	61.75
25.0	47.37	47.52	47.48	47.49	47.59	47.51	47.28	47.03	47.20	47.33
27.5	37.01	37.11	37.17	37.41	37.71	37.12	36.66	36.29	36.06	35.63
30.0	28.46	28.39	28.40	28.59	28.10	27.68	27.17	27.21	27.10	26.85
32.5	19.91	20.08	20.23	20.14	19.79	19.47	19.14	18.89	18.70	18.51
35.0	12.98	12.94	13.09	13.07	13.00	12.80	12.59	12.20	11.99	11.84
37.5	8.06	8.13	8.13	8.13	8.12	8.13	8.06	7.82	7.68	7.79
40.0	5.18	5.23	5.33	5.35	5.29	5.27	5.18	5.19	5.24	5.29
42.5	3.30	3.31	3.34	3.36	3.41	3.45	3.53	3.59	3.55	3.51
45.0	2.30	2.33	2.34	2.37	2.39	2.37	2.38	2.44	2.44	2.34
47.5	1.81	1.79	1.80	1.81	1.80	1.76	1.76	1.76	1.73	1.65
50.0	1.42	1.42	1.45	1.50	1.46	1.43	1.35	1.32	1.31	1.37
52.5	1.14	1.15	1.17	1.16	1.15	1.11	1.07	1.08	1.08	1.10
55.0	0.94	0.96	0.99	0.95	0.90	0.86	0.88	0.89	0.94	0.94
57.5	0.80	0.84	0.83	0.79	0.75	0.72	0.73	0.77	0.78	0.82
60.0	0.72	0.74	0.68	0.63	0.61	0.65	0.65	0.66	0.68	0.70
62.5	0.64	0.62	0.55	0.52	0.53	0.56	0.58	0.60	0.60	0.60
65.0	0.57	0.50	0.45	0.45	0.48	0.50	0.51	0.53	0.52	0.49
67.5	0.47	0.40	0.36	0.40	0.44	0.44	0.47	0.44	0.43	0.40
70.0	0.36	0.34	0.36	0.37	0.40	0.40	0.37	0.34	0.33	0.30
72.5	0.25	0.27	0.33	0.35	0.35	0.31	0.29	0.26	0.23	0.21
75.0	0.21	0.26	0.30	0.29	0.26	0.25	0.21	0.17	0.18	0.21
77.5	0.21	0.26	0.23	0.21	0.19	0.17	0.18	0.18	0.20	0.21
80.0	0.23	0.18	0.13	0.10	0.15	0.18	0.20	0.20	0.20	0.20
82.5	0.12	0.07	0.11	0.13	0.16	0.18	0.18	0.17	0.17	0.16
85.0	0.07	0.13	0.15	0.14	0.13	0.13	0.13	0.13	0.12	0.12
87.5	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.08	0.09
90.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Vert. Angles **Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	341.14	341.06	341.00	340.78	340.65	340.53	340.34	340.26	340.15	340.03
5.0	339.26	339.19	339.03	338.88	338.76	338.66	338.59	338.51	338.05	337.49
7.5	327.10	325.75	324.91	324.03	323.42	323.06	322.56	321.89	321.15	320.29
10.0	293.50	291.01	288.80	286.37	284.61	283.10	282.18	281.35	281.81	282.24
12.5	235.79	232.73	230.08	228.11	226.66	225.87	225.91	226.39	228.64	230.20
15.0	170.77	168.36	166.04	165.84	167.33	168.76	170.41	172.06	173.57	174.98
17.5	116.19	117.83	119.60	121.25	122.82	124.23	125.44	126.33	126.26	127.72
20.0	83.94	84.92	85.90	87.08	88.06	89.05	89.61	89.80	89.57	88.76
22.5	62.00	62.41	62.83	63.24	63.38	63.13	62.88	61.90	60.27	58.02
25.0	47.33	47.30	47.14	46.81	46.42	45.59	44.15	42.94	43.11	42.95
27.5	35.85	35.95	35.91	35.23	34.88	34.60	34.49	34.32	34.15	34.00
30.0	26.84	26.69	26.64	26.82	26.96	26.80	26.53	26.16	25.91	25.50
32.5	18.87	19.32	19.46	19.45	19.42	19.48	19.27	18.88	18.19	17.79
35.0	12.41	12.84	13.21	13.34	13.04	12.77	12.51	12.13	11.49	11.57
37.5	7.90	8.15	8.23	8.15	7.87	7.38	7.24	8.02	8.77	9.32
40.0	5.14	5.01	4.82	4.47	4.49	4.94	5.50	5.93	6.58	7.12

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CANDELA TABULATION - (Cont.)

42.5	3.38	3.09	2.87	3.05	3.36	3.66	3.99	4.41	4.74	5.20
45.0	2.17	2.22	2.32	2.38	2.49	2.72	2.91	3.12	3.34	3.53
47.5	1.69	1.76	1.84	1.90	1.93	1.99	2.11	2.17	2.20	2.23
50.0	1.40	1.42	1.45	1.50	1.51	1.51	1.50	1.47	1.39	1.35
52.5	1.15	1.18	1.17	1.18	1.16	1.13	1.10	1.06	1.05	1.03
55.0	0.95	0.96	0.96	0.93	0.92	0.90	0.91	0.89	0.91	0.89
57.5	0.81	0.80	0.78	0.78	0.78	0.77	0.76	0.77	0.76	0.75
60.0	0.70	0.68	0.68	0.67	0.66	0.65	0.63	0.62	0.62	0.61
62.5	0.59	0.58	0.57	0.57	0.56	0.54	0.52	0.50	0.47	0.46
65.0	0.49	0.46	0.47	0.47	0.45	0.44	0.41	0.38	0.36	0.36
67.5	0.38	0.37	0.36	0.36	0.37	0.36	0.34	0.33	0.32	0.32
70.0	0.29	0.28	0.26	0.29	0.32	0.32	0.30	0.29	0.28	0.28
72.5	0.22	0.23	0.24	0.26	0.28	0.27	0.26	0.26	0.25	0.24
75.0	0.22	0.23	0.24	0.24	0.24	0.23	0.22	0.22	0.21	0.21
77.5	0.23	0.23	0.22	0.21	0.21	0.20	0.20	0.20	0.19	0.19
80.0	0.20	0.20	0.19	0.19	0.18	0.17	0.17	0.17	0.16	0.16
82.5	0.16	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.13
85.0	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.10	0.10	0.10
87.5	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
90.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Vert. Angles **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	339.92	339.80	339.69	339.62	339.42	339.28	339.14	339.00	338.86	338.73
5.0	337.00	336.59	336.25	335.89	335.39	334.97	334.60	334.28	333.86	333.40
7.5	319.19	318.34	317.79	317.37	317.00	316.84	316.70	316.12	315.65	315.32
10.0	283.08	284.02	285.34	286.65	287.84	289.39	290.36	291.59	291.94	291.05
12.5	231.75	233.15	234.50	235.60	236.51	235.76	237.40	237.50	237.62	236.88
15.0	176.57	178.00	179.07	178.12	180.80	181.20	181.55	181.38	181.14	180.95
17.5	128.17	128.21	127.74	128.61	127.82	127.83	127.24	126.52	125.58	124.82
20.0	87.50	86.20	84.30	82.35	80.29	77.74	75.46	73.30	71.03	69.18
22.5	55.04	52.74	53.04	53.23	53.60	54.13	54.48	54.79	55.19	55.21
25.0	42.98	43.08	43.03	43.18	43.24	43.40	43.75	43.90	44.17	44.16
27.5	33.76	33.65	33.59	33.50	33.49	33.30	33.34	33.27	33.27	33.22
30.0	25.24	24.80	24.49	24.22	24.06	23.70	23.30	22.88	22.61	22.33
32.5	17.28	16.62	15.89	16.46	17.05	17.55	17.81	17.98	18.17	18.36
35.0	12.20	12.72	13.10	13.44	13.89	14.40	14.64	14.78	14.88	15.04
37.5	9.64	10.11	10.40	10.69	10.99	11.31	11.55	11.62	11.65	11.74
40.0	7.47	7.69	7.99	8.14	8.24	8.38	8.54	8.53	8.47	8.47
42.5	5.48	5.58	5.67	5.72	5.69	5.65	5.62	5.49	5.34	5.24
45.0	3.72	3.72	3.59	3.48	3.31	3.06	2.79	2.68	2.56	2.47
47.5	2.19	2.04	1.95	1.82	1.71	1.61	1.59	1.56	1.54	1.53
50.0	1.28	1.34	1.35	1.35	1.37	1.41	1.40	1.37	1.35	1.35
52.5	1.09	1.14	1.16	1.16	1.17	1.21	1.20	1.17	1.15	1.15
55.0	0.91	0.94	0.97	0.97	0.97	1.00	1.00	0.98	0.97	0.96
57.5	0.74	0.77	0.79	0.77	0.77	0.79	0.80	0.79	0.77	0.77
60.0	0.59	0.60	0.60	0.59	0.59	0.58	0.61	0.59	0.58	0.58
62.5	0.46	0.45	0.43	0.43	0.45	0.45	0.49	0.48	0.49	0.48
65.0	0.38	0.37	0.37	0.38	0.38	0.38	0.41	0.41	0.40	0.40
67.5	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.32	0.32	0.32
70.0	0.27	0.27	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.24
72.5	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21
75.0	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19
77.5	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17

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CANDELA TABULATION - (Cont.)

80.0	0.16	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14
82.5	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
85.0	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
87.5	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
90.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Vert. Angles	Horizontal Angles									
	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	338.59	338.46	338.33	338.16	338.00	337.84	337.69	337.54	337.40	337.26
5.0	332.98	332.60	332.27	331.80	331.38	331.02	330.72	330.66	329.86	329.45
7.5	314.25	313.34	312.57	311.36	310.29	309.39	307.78	306.32	305.10	303.69
10.0	291.01	289.66	288.31	285.75	283.19	279.22	276.36	272.43	268.05	264.15
12.5	236.09	234.28	232.72	230.51	229.17	225.20	221.94	218.11	214.31	209.21
15.0	179.88	178.55	177.14	175.36	173.34	170.85	167.85	164.88	161.73	158.58
17.5	123.79	122.66	121.55	120.50	119.17	117.75	116.39	114.70	113.13	111.74
20.0	66.25	66.23	65.96	65.53	64.48	66.50	67.23	67.95	69.05	70.09
22.5	55.42	55.19	54.87	54.54	53.72	53.09	52.16	51.18	50.47	49.72
25.0	44.25	44.04	43.79	43.50	42.75	42.27	41.57	40.89	40.37	39.64
27.5	33.09	32.89	32.71	32.37	31.90	31.64	31.27	30.97	30.54	30.20
30.0	21.61	21.63	21.63	21.24	20.75	21.26	21.28	21.27	21.11	21.27
32.5	18.41	18.34	18.31	17.98	17.65	17.48	17.10	16.54	15.94	15.65
35.0	15.09	15.02	14.99	14.69	14.45	14.29	13.98	13.47	13.09	12.86
37.5	11.78	11.70	11.67	11.43	11.27	11.15	10.95	10.53	10.34	10.16
40.0	8.46	8.34	8.34	8.13	8.09	8.04	7.90	7.69	7.64	7.56
42.5	5.15	5.06	5.03	4.93	4.94	4.99	4.98	4.97	5.05	5.05
45.0	2.40	2.35	2.33	2.29	2.33	2.39	2.44	2.45	2.53	2.72
47.5	1.52	1.51	1.51	1.49	1.49	1.50	1.50	1.45	1.45	1.44
50.0	1.33	1.32	1.32	1.31	1.31	1.31	1.31	1.28	1.28	1.27
52.5	1.14	1.13	1.13	1.13	1.13	1.13	1.14	1.11	1.12	1.10
55.0	0.95	0.94	0.94	0.95	0.94	0.95	0.95	0.95	0.95	0.94
57.5	0.75	0.75	0.75	0.77	0.76	0.77	0.77	0.78	0.79	0.78
60.0	0.56	0.56	0.56	0.58	0.57	0.59	0.60	0.61	0.63	0.64
62.5	0.48	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.51	0.52
65.0	0.40	0.40	0.40	0.41	0.40	0.40	0.41	0.41	0.42	0.43
67.5	0.32	0.32	0.32	0.32	0.31	0.31	0.32	0.32	0.32	0.33
70.0	0.23	0.23	0.23	0.23	0.22	0.23	0.23	0.23	0.23	0.24
72.5	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19
75.0	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.18	0.18
77.5	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
80.0	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13
82.5	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
85.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
87.5	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
90.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	337.14	337.01	336.98	336.64	336.45	336.28	336.11	335.95	335.75	335.71
5.0	329.13	328.90	328.69	328.52	328.47	328.54	328.74	329.00	328.04	327.34
7.5	302.49	301.65	300.85	300.18	299.93	300.29	300.19	300.13	299.94	300.26
10.0	260.08	256.59	253.47	250.78	248.77	247.37	246.62	246.78	246.60	247.35
12.5	206.46	202.60	199.04	195.74	192.55	189.43	186.41	183.11	183.28	183.71

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CANDELA TABULATION - (Cont.)

15.0	156.38	151.41	150.29	147.65	145.00	142.31	139.89	138.24	135.05	133.56
17.5	110.65	109.40	107.40	106.68	105.43	103.99	102.37	100.62	98.71	96.80
20.0	71.07	71.94	72.72	73.81	73.56	73.35	72.82	72.11	71.03	69.93
22.5	48.99	48.52	48.19	47.65	48.50	49.79	50.64	51.09	51.18	50.96
25.0	39.33	39.14	38.76	38.28	37.79	37.44	37.28	37.02	37.34	37.72
27.5	30.36	30.16	29.92	29.59	29.38	29.29	29.23	29.10	28.80	28.39
30.0	21.56	21.78	21.60	21.60	21.71	21.80	21.87	21.65	21.40	21.19
32.5	15.32	14.63	13.93	14.28	14.78	14.99	15.01	15.04	14.92	14.88
35.0	12.48	11.85	11.28	10.90	10.31	9.53	8.81	9.17	9.51	9.58
37.5	9.75	9.30	8.96	8.60	7.98	7.24	6.58	6.08	5.46	5.29
40.0	7.26	7.00	6.84	6.45	5.90	5.38	5.00	4.49	3.98	3.68
42.5	4.97	4.91	4.83	4.60	4.22	3.97	3.61	3.24	3.01	2.78
45.0	2.85	2.98	3.05	2.99	2.89	2.74	2.53	2.38	2.25	2.11
47.5	1.47	1.59	1.70	1.70	1.75	1.77	1.75	1.71	1.64	1.61
50.0	1.21	1.20	1.20	1.15	1.07	1.17	1.15	1.16	1.21	1.22
52.5	1.07	1.08	1.06	0.99	0.96	0.95	0.91	0.87	0.90	0.90
55.0	0.92	0.93	0.91	0.86	0.86	0.82	0.78	0.78	0.75	0.73
57.5	0.78	0.78	0.77	0.74	0.74	0.72	0.70	0.69	0.66	0.65
60.0	0.65	0.65	0.65	0.64	0.64	0.63	0.62	0.60	0.59	0.59
62.5	0.52	0.53	0.54	0.53	0.54	0.53	0.54	0.53	0.53	0.52
65.0	0.43	0.44	0.44	0.44	0.45	0.45	0.47	0.46	0.47	0.46
67.5	0.33	0.35	0.34	0.35	0.36	0.36	0.37	0.38	0.39	0.40
70.0	0.24	0.25	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32
72.5	0.19	0.19	0.18	0.18	0.17	0.19	0.20	0.22	0.23	0.24
75.0	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17
77.5	0.15	0.15	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15
80.0	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.13
82.5	0.11	0.11	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11
85.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
87.5	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07
90.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	335.60	335.51	335.43	335.37	335.42	335.21	335.15	335.11	335.09	335.08
5.0	326.70	326.12	325.62	325.18	325.30	324.06	323.58	323.20	322.89	322.51
7.5	299.35	299.39	299.72	300.36	300.95	301.69	300.81	299.77	298.94	298.33
10.0	249.45	250.11	252.14	254.70	255.44	255.31	255.58	256.26	258.34	256.76
12.5	184.60	185.80	187.13	188.65	190.16	191.66	193.27	195.69	193.22	192.67
15.0	130.32	127.95	127.49	128.66	129.77	130.77	131.53	132.36	133.04	133.11
17.5	94.84	92.86	91.07	89.34	87.85	87.77	89.12	88.59	88.74	88.88
20.0	68.68	67.61	66.43	65.36	64.37	63.52	62.80	62.62	62.90	62.40
22.5	50.60	50.05	49.59	48.74	48.16	47.73	47.46	47.29	47.18	47.22
25.0	37.69	37.40	37.16	36.90	36.63	36.44	36.39	36.44	36.62	36.92
27.5	28.25	28.03	27.81	27.63	27.49	27.41	27.49	27.65	27.87	28.13
30.0	20.88	20.51	20.06	19.81	19.84	20.02	20.04	20.01	19.95	19.99
32.5	14.69	14.36	14.12	13.97	13.49	13.32	13.27	13.25	13.29	13.42
35.0	9.52	9.66	9.61	9.25	8.77	8.27	8.52	8.65	8.73	8.63
37.5	5.73	5.94	5.94	5.78	5.87	5.78	5.68	5.57	5.62	5.66
40.0	3.39	3.39	3.63	3.85	3.96	3.94	3.89	3.71	3.49	3.50
42.5	2.60	2.44	2.37	2.56	2.71	2.71	2.56	2.43	2.32	2.34
45.0	2.00	1.97	1.96	1.93	1.88	1.90	1.88	1.85	1.84	1.77
47.5	1.59	1.60	1.58	1.54	1.51	1.50	1.51	1.47	1.44	1.43
50.0	1.25	1.26	1.25	1.24	1.24	1.23	1.21	1.20	1.19	1.19

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CANDELA TABULATION - (Cont.)

52.5	0.95	0.98	0.99	1.00	1.00	1.00	1.00	1.01	1.00	0.96
55.0	0.73	0.75	0.77	0.78	0.80	0.82	0.84	0.83	0.86	0.84
57.5	0.65	0.62	0.60	0.60	0.65	0.68	0.66	0.69	0.70	0.74
60.0	0.57	0.55	0.53	0.52	0.53	0.51	0.54	0.56	0.59	0.61
62.5	0.51	0.49	0.48	0.48	0.44	0.42	0.42	0.44	0.48	0.53
65.0	0.44	0.45	0.44	0.42	0.40	0.38	0.36	0.37	0.42	0.42
67.5	0.41	0.40	0.40	0.37	0.36	0.35	0.34	0.35	0.33	0.30
70.0	0.34	0.34	0.34	0.34	0.34	0.32	0.32	0.31	0.26	0.24
72.5	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.27	0.24	0.23
75.0	0.21	0.20	0.21	0.20	0.20	0.22	0.24	0.26	0.25	0.22
77.5	0.15	0.16	0.14	0.13	0.11	0.13	0.14	0.16	0.19	0.22
80.0	0.13	0.14	0.12	0.10	0.09	0.07	0.06	0.08	0.09	0.12
82.5	0.11	0.11	0.09	0.08	0.08	0.06	0.05	0.06	0.05	0.05
85.0	0.09	0.09	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05
87.5	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
90.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Vert. Angles **Horizontal Angles**

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	335.09	335.12	335.16	335.22	335.30	335.38	335.49	335.60	335.73	335.57
5.0	322.54	322.48	322.51	322.61	322.78	323.02	323.34	323.72	324.16	323.54
7.5	298.43	297.31	296.90	297.02	297.21	297.60	298.21	299.01	300.01	298.48
10.0	254.82	253.33	252.29	251.70	251.55	251.84	252.56	253.72	255.31	252.80
12.5	192.49	191.79	191.68	188.83	188.18	188.09	188.58	189.67	191.39	188.82
15.0	133.37	131.34	130.89	129.35	128.26	127.74	127.82	128.51	129.83	127.95
17.5	89.18	88.50	87.72	87.97	86.56	86.19	86.19	86.58	87.39	86.36
20.0	62.58	62.80	62.43	62.29	62.11	61.88	61.94	62.30	62.98	62.20
22.5	47.47	47.25	47.43	47.28	47.27	46.98	46.80	46.81	47.04	46.63
25.0	36.89	36.77	37.05	36.72	36.52	36.31	36.04	35.96	36.08	35.93
27.5	28.46	28.19	27.96	27.89	27.92	27.74	27.60	27.63	27.84	27.63
30.0	20.12	20.22	20.06	20.06	20.13	20.11	20.01	20.03	20.25	19.97
32.5	13.46	13.45	13.37	13.28	13.34	13.38	13.34	13.32	13.45	13.34
35.0	8.61	8.59	8.64	8.73	8.80	8.87	8.78	8.59	8.50	8.59
37.5	5.65	5.63	5.63	5.67	5.62	5.62	5.67	5.77	5.98	5.87
40.0	3.55	3.64	3.69	3.70	3.60	3.51	3.49	3.57	3.71	3.62
42.5	2.44	2.48	2.46	2.45	2.41	2.34	2.31	2.34	2.40	2.33
45.0	1.76	1.78	1.82	1.85	1.89	1.85	1.84	1.88	1.92	1.85
47.5	1.40	1.43	1.44	1.48	1.53	1.50	1.45	1.49	1.57	1.48
50.0	1.13	1.10	1.15	1.19	1.24	1.26	1.20	1.22	1.27	1.19
52.5	0.95	0.91	0.95	0.96	1.00	1.04	0.95	0.96	1.05	0.95
55.0	0.81	0.78	0.76	0.80	0.83	0.88	0.81	0.79	0.89	0.79
57.5	0.72	0.70	0.66	0.64	0.69	0.74	0.71	0.67	0.76	0.65
60.0	0.64	0.61	0.58	0.56	0.59	0.63	0.63	0.56	0.68	0.56
62.5	0.54	0.56	0.53	0.47	0.46	0.51	0.56	0.47	0.58	0.47
65.0	0.43	0.46	0.47	0.42	0.36	0.44	0.50	0.40	0.50	0.39
67.5	0.34	0.37	0.41	0.40	0.36	0.36	0.42	0.37	0.44	0.36
70.0	0.26	0.28	0.32	0.36	0.31	0.25	0.32	0.29	0.37	0.29
72.5	0.20	0.20	0.24	0.29	0.31	0.22	0.25	0.26	0.31	0.26
75.0	0.20	0.17	0.17	0.21	0.26	0.23	0.20	0.26	0.28	0.26
77.5	0.21	0.18	0.16	0.12	0.17	0.23	0.14	0.22	0.23	0.21
80.0	0.16	0.19	0.16	0.12	0.09	0.14	0.15	0.15	0.20	0.14
82.5	0.05	0.09	0.14	0.14	0.10	0.05	0.13	0.06	0.16	0.06
85.0	0.04	0.04	0.04	0.06	0.11	0.10	0.04	0.10	0.14	0.10
87.5	0.04	0.04	0.04	0.04	0.04	0.04	0.09	0.04	0.10	0.06

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CANDELA TABULATION - (Cont.)

90.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.20
Vert. Angles	Horizontal Angles									
	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	335.43	335.29	335.18	335.08	335.00	334.93	334.89	334.86	334.86	334.88
5.0	322.98	322.49	322.07	321.74	321.48	321.31	321.23	321.25	321.36	321.56
7.5	297.16	296.05	295.17	294.55	294.18	294.08	294.96	294.50	294.81	295.38
10.0	250.71	249.06	247.84	247.06	246.73	246.85	247.41	248.42	249.28	246.83
12.5	186.88	185.54	184.77	184.53	186.47	185.65	185.53	184.95	184.68	186.18
15.0	126.69	126.02	125.86	126.20	127.00	126.73	127.95	127.08	126.52	125.40
17.5	85.74	85.50	85.61	86.87	86.13	86.41	86.55	85.77	85.19	84.62
20.0	61.74	61.56	61.64	61.68	61.69	61.92	61.62	61.48	61.47	60.78
22.5	46.46	46.41	46.52	46.50	46.69	46.65	47.09	46.81	46.94	46.80
25.0	35.97	36.19	36.31	36.39	36.58	36.18	36.25	36.37	36.11	35.94
27.5	27.58	27.70	27.73	27.55	27.46	27.60	27.88	27.32	27.04	26.89
30.0	19.90	19.94	19.85	19.53	19.23	19.18	19.21	19.18	19.23	19.38
32.5	13.36	13.37	13.33	13.29	13.33	13.18	12.89	12.68	12.56	12.65
35.0	8.79	8.92	8.89	8.83	8.74	8.60	8.51	8.40	8.27	8.10
37.5	5.85	5.80	5.76	5.78	5.73	5.61	5.47	5.31	5.14	4.94
40.0	3.59	3.60	3.60	3.63	3.64	3.61	3.57	3.47	3.27	3.27
42.5	2.30	2.31	2.35	2.35	2.34	2.34	2.34	2.29	2.30	2.39
45.0	1.81	1.83	1.86	1.81	1.77	1.72	1.69	1.69	1.74	1.79
47.5	1.44	1.46	1.48	1.43	1.39	1.36	1.35	1.38	1.39	1.43
50.0	1.15	1.19	1.18	1.16	1.13	1.11	1.11	1.13	1.17	1.19
52.5	0.93	1.00	0.97	0.92	0.91	0.90	0.95	0.97	0.98	1.01
55.0	0.80	0.86	0.82	0.79	0.74	0.76	0.80	0.84	0.85	0.85
57.5	0.69	0.72	0.67	0.63	0.64	0.68	0.71	0.73	0.72	0.72
60.0	0.61	0.60	0.56	0.54	0.56	0.60	0.62	0.61	0.60	0.59
62.5	0.55	0.51	0.44	0.45	0.51	0.55	0.53	0.52	0.50	0.49
65.0	0.48	0.42	0.36	0.42	0.46	0.47	0.46	0.44	0.41	0.41
67.5	0.41	0.33	0.35	0.40	0.41	0.38	0.37	0.38	0.37	0.38
70.0	0.32	0.24	0.31	0.35	0.33	0.30	0.28	0.32	0.37	0.39
72.5	0.25	0.22	0.31	0.30	0.25	0.23	0.25	0.31	0.37	0.40
75.0	0.18	0.22	0.27	0.22	0.20	0.21	0.28	0.32	0.37	0.40
77.5	0.15	0.23	0.19	0.17	0.20	0.26	0.30	0.35	0.34	0.33
80.0	0.15	0.15	0.11	0.19	0.25	0.29	0.29	0.27	0.26	0.27
82.5	0.14	0.08	0.16	0.26	0.25	0.22	0.22	0.21	0.22	0.23
85.0	0.06	0.18	0.22	0.19	0.18	0.18	0.20	0.21	0.21	0.21
87.5	0.18	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21
90.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Vert. Angles	Horizontal Angles									
	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	334.92	334.98	335.22	335.16	335.23	335.32	335.42	335.55	335.69	335.85
5.0	321.87	322.28	323.53	323.32	323.74	324.24	324.83	325.51	326.26	327.36
7.5	296.20	297.46	295.82	294.96	294.09	293.55	293.33	294.15	293.56	293.90
10.0	245.85	245.27	245.11	244.20	241.64	239.48	238.62	235.94	234.57	234.75
12.5	183.19	181.02	178.94	176.92	175.00	173.24	171.56	170.03	168.79	168.06
15.0	124.09	122.75	121.02	119.03	116.90	116.72	119.07	122.21	123.89	127.19
17.5	84.61	82.76	82.34	83.56	85.05	86.65	88.00	89.56	91.15	93.29
20.0	60.44	60.84	61.49	62.31	63.24	64.23	65.13	66.26	67.19	67.99
22.5	46.79	46.85	47.01	47.29	47.80	48.25	48.82	49.20	49.46	49.49

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CANDELA TABULATION - (Cont.)

25.0	35.80	35.92	35.83	35.97	36.16	36.40	36.60	36.76	36.69	36.48
27.5	26.79	26.72	26.69	26.72	26.78	26.81	27.10	27.45	27.85	28.30
30.0	19.33	19.14	19.10	19.07	19.14	19.45	19.77	20.01	20.26	20.50
32.5	12.77	12.86	13.01	13.18	13.40	13.61	13.73	13.84	13.86	13.88
35.0	7.94	7.98	8.41	8.84	9.05	8.93	8.84	8.72	8.50	8.16
37.5	5.04	5.25	5.44	5.50	5.57	5.47	5.14	4.65	4.66	5.20
40.0	3.38	3.50	3.62	3.60	3.41	3.05	2.98	3.21	3.50	3.93
42.5	2.42	2.45	2.46	2.40	2.32	2.35	2.40	2.53	2.72	2.94
45.0	1.81	1.82	1.75	1.84	1.89	1.97	2.00	2.03	2.13	2.25
47.5	1.44	1.43	1.46	1.50	1.56	1.60	1.66	1.67	1.69	1.74
50.0	1.20	1.21	1.22	1.25	1.28	1.31	1.33	1.34	1.35	1.33
52.5	1.03	1.03	1.04	1.04	1.05	1.08	1.08	1.06	1.08	1.10
55.0	0.85	0.87	0.87	0.88	0.86	0.87	0.91	0.91	0.96	1.02
57.5	0.72	0.71	0.72	0.73	0.74	0.76	0.82	0.87	0.89	0.93
60.0	0.60	0.60	0.59	0.63	0.70	0.72	0.76	0.81	0.84	0.87
62.5	0.49	0.52	0.55	0.59	0.64	0.69	0.71	0.75	0.80	0.82
65.0	0.43	0.48	0.54	0.57	0.62	0.65	0.67	0.72	0.75	0.78
67.5	0.43	0.47	0.51	0.56	0.58	0.62	0.64	0.67	0.67	0.68
70.0	0.42	0.46	0.50	0.54	0.56	0.58	0.56	0.57	0.57	0.58
72.5	0.42	0.46	0.47	0.49	0.48	0.48	0.48	0.49	0.49	0.48
75.0	0.40	0.40	0.42	0.42	0.41	0.40	0.39	0.40	0.41	0.42
77.5	0.33	0.35	0.36	0.35	0.36	0.35	0.36	0.36	0.37	0.38
80.0	0.26	0.30	0.31	0.32	0.32	0.32	0.33	0.32	0.33	0.34
82.5	0.24	0.26	0.28	0.29	0.30	0.29	0.29	0.29	0.30	0.30
85.0	0.22	0.24	0.25	0.26	0.26	0.26	0.26	0.26	0.27	0.26
87.5	0.21	0.21	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23
90.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

**Vert.
Angles**

Horizontal Angles

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84	339.84
2.5	336.08	336.22	336.44	336.66	337.06	337.09	337.20	337.32	337.44	337.57
5.0	327.95	326.74	326.62	326.64	326.80	326.99	327.18	327.48	327.90	328.78
7.5	293.25	292.96	292.10	291.86	292.04	292.36	292.74	293.48	294.48	295.50
10.0	233.34	233.53	234.34	235.61	237.53	239.74	242.18	245.17	247.81	250.94
12.5	170.57	173.50	176.55	179.83	183.32	186.93	190.70	194.27	199.24	200.91
15.0	128.79	131.11	133.63	136.16	138.82	141.57	145.21	147.33	150.22	152.90
17.5	94.68	96.49	98.04	99.38	100.79	102.19	103.61	104.98	106.29	107.57
20.0	68.50	68.94	69.21	69.74	69.02	68.53	67.98	67.38	66.69	65.39
22.5	49.17	48.41	47.17	46.19	46.63	47.06	47.56	48.27	49.00	49.62
25.0	36.76	36.89	37.06	37.15	37.27	37.57	37.85	38.19	38.71	39.15
27.5	28.54	28.64	28.66	28.64	28.58	28.55	29.03	28.70	28.81	29.01
30.0	20.79	21.01	20.94	20.70	20.40	20.38	19.89	19.72	19.41	19.17
32.5	13.63	13.70	13.74	13.40	12.80	13.20	13.69	14.21	14.56	14.85
35.0	7.67	8.04	9.08	10.02	10.58	10.88	11.26	11.66	12.10	12.25
37.5	5.77	6.34	6.86	7.75	8.42	8.73	8.97	9.26	9.61	9.72
40.0	4.38	4.82	5.22	5.73	6.37	6.71	6.84	7.00	7.17	7.26
42.5	3.26	3.61	3.88	4.11	4.52	4.81	4.85	4.85	4.88	4.86
45.0	2.40	2.60	2.79	2.86	2.94	3.05	2.99	2.82	2.70	2.66
47.5	1.78	1.83	1.87	1.84	1.80	1.82	1.76	1.70	1.77	1.80
50.0	1.34	1.35	1.34	1.42	1.43	1.49	1.54	1.59	1.63	1.65
52.5	1.14	1.19	1.23	1.30	1.33	1.37	1.42	1.47	1.49	1.51
55.0	1.06	1.11	1.15	1.19	1.24	1.27	1.31	1.35	1.37	1.38
57.5	0.98	1.03	1.07	1.10	1.15	1.17	1.20	1.23	1.24	1.25
60.0	0.92	0.95	0.99	1.02	1.05	1.08	1.10	1.11	1.12	1.11

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

62.5	0.85	0.88	0.93	0.94	0.96	0.97	1.00	0.99	1.00	0.98
65.0	0.79	0.81	0.84	0.84	0.84	0.85	0.87	0.85	0.86	0.86
67.5	0.69	0.71	0.73	0.73	0.72	0.73	0.73	0.73	0.73	0.73
70.0	0.60	0.61	0.63	0.62	0.62	0.61	0.60	0.60	0.59	0.59
72.5	0.51	0.51	0.53	0.53	0.52	0.52	0.51	0.53	0.52	0.53
75.0	0.43	0.45	0.48	0.48	0.48	0.47	0.47	0.48	0.48	0.49
77.5	0.38	0.40	0.43	0.43	0.43	0.42	0.42	0.44	0.43	0.44
80.0	0.35	0.36	0.38	0.39	0.39	0.38	0.38	0.39	0.39	0.38
82.5	0.30	0.32	0.33	0.34	0.34	0.33	0.33	0.34	0.34	0.34
85.0	0.27	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
87.5	0.23	0.24	0.24	0.25	0.25	0.24	0.24	0.24	0.24	0.25
90.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Vert. Horizontal Angles
Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	339.84	339.84	339.84	339.84	339.84
2.5	337.71	337.85	337.99	338.14	338.29
5.0	328.74	328.96	329.27	329.65	330.11
7.5	296.82	298.35	299.35	300.59	302.04
10.0	254.19	257.66	261.12	264.08	267.34
12.5	204.05	207.17	211.21	213.31	216.36
15.0	155.35	157.86	160.41	162.87	165.38
17.5	108.85	109.94	111.28	112.79	114.39
20.0	64.39	63.59	63.12	63.09	63.40
22.5	50.06	50.65	51.23	51.86	52.36
25.0	39.57	40.01	40.45	40.96	41.32
27.5	29.22	29.50	29.76	30.02	30.27
30.0	19.02	19.15	19.15	19.17	19.23
32.5	15.17	15.72	16.03	16.24	16.36
35.0	12.49	12.89	13.21	13.39	13.50
37.5	9.89	10.13	10.43	10.55	10.63
40.0	7.31	7.43	7.63	7.72	7.76
42.5	4.86	4.79	4.87	4.89	4.90
45.0	2.59	2.55	2.59	2.58	2.57
47.5	1.79	1.80	1.86	1.87	1.87
50.0	1.65	1.66	1.70	1.72	1.71
52.5	1.51	1.52	1.55	1.56	1.55
55.0	1.38	1.38	1.40	1.41	1.39
57.5	1.24	1.23	1.24	1.25	1.22
60.0	1.10	1.09	1.09	1.10	1.06
62.5	0.97	0.98	0.97	0.97	0.95
65.0	0.85	0.85	0.85	0.85	0.84
67.5	0.72	0.72	0.73	0.73	0.73
70.0	0.59	0.60	0.61	0.62	0.62
72.5	0.54	0.55	0.56	0.56	0.57
75.0	0.49	0.50	0.50	0.51	0.51
77.5	0.44	0.45	0.45	0.46	0.46
80.0	0.39	0.40	0.40	0.41	0.41
82.5	0.34	0.35	0.35	0.35	0.36
85.0	0.30	0.30	0.30	0.30	0.30
87.5	0.25	0.25	0.25	0.25	0.25
90.0	0.20	0.20	0.20	0.20	0.20

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	72.24	70.30	69.90
0-30	91.65	89.20	88.70
0-40	99.21	96.60	96.00
0-60	102.24	99.50	99.00
0-80	103.11	100.40	99.80
0-90	103.30	100.60	100.00
10-90	73.69	71.70	71.30
20-40	26.97	26.30	26.10
20-50	29.11	28.30	28.20
40-70	3.57	3.50	3.50
60-80	0.87	0.80	0.80
70-80	0.33	0.30	0.30
80-90	0.20	0.20	0.20
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	103.30	100.60	100.00

Total Luminaire Efficiency = 100.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.62
10-20	42.62
20-30	19.42
30-40	7.55
40-50	2.14
50-60	0.89
60-70	0.54
70-80	0.33
80-90	0.20
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
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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	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	99	99	98	96
2	111	107	103	101	109	105	102	99	102	99	97	99	97	95	96	95	93	92
3	107	101	97	94	105	100	96	93	98	95	92	95	93	91	93	91	89	88
4	103	97	92	89	101	96	92	88	94	90	87	92	89	86	90	88	86	84
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81
6	96	89	84	81	95	88	84	81	87	83	80	85	82	80	84	81	79	78
7	93	85	81	77	92	85	80	77	84	80	77	83	79	77	82	79	76	75
8	90	82	78	75	89	82	77	74	81	77	74	80	76	74	79	76	74	72
9	87	80	75	72	86	79	75	72	78	74	72	77	74	71	77	73	71	70
10	84	77	72	69	84	76	72	69	76	72	69	75	72	69	74	71	69	68

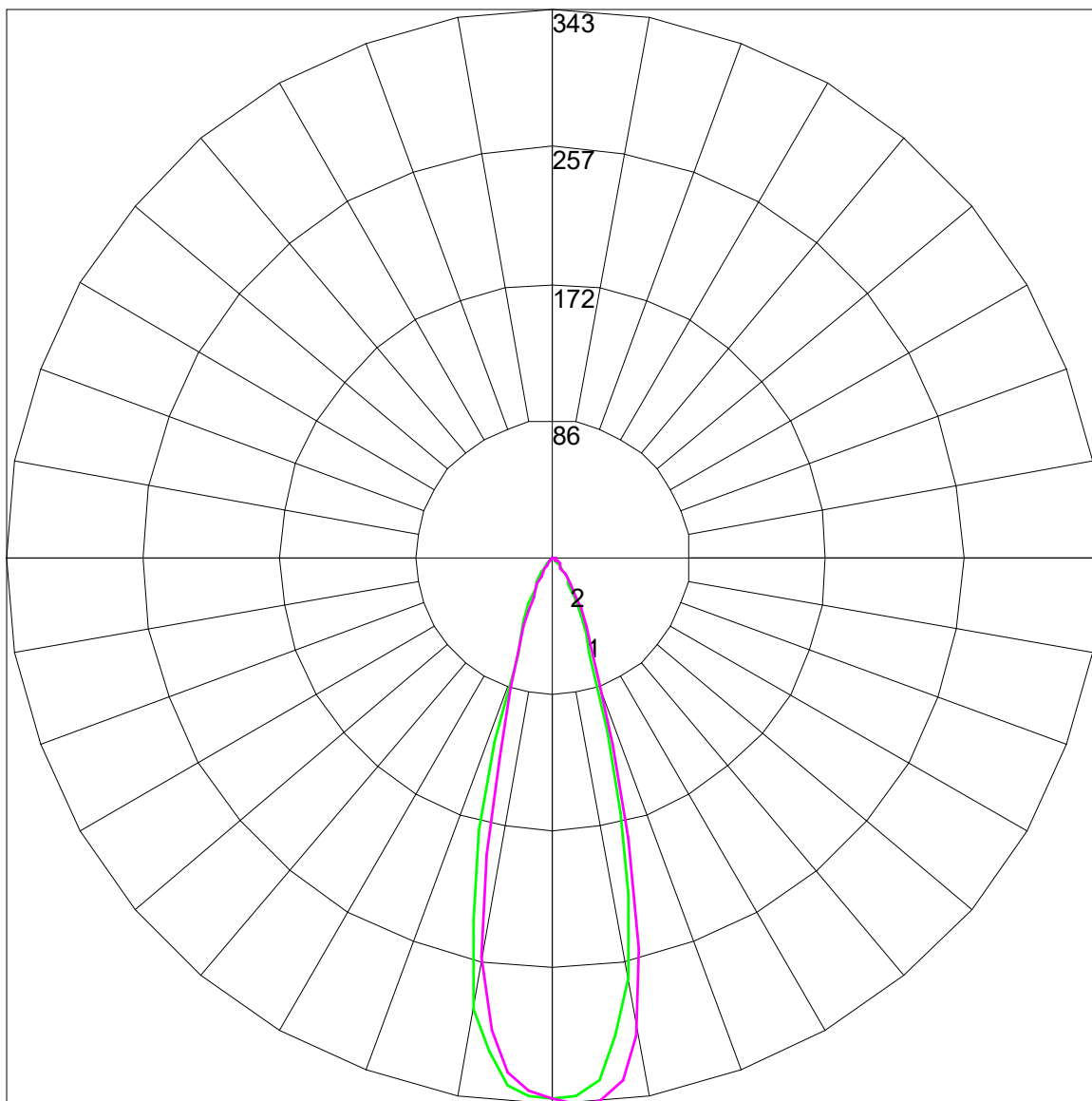
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	0.0	0.0	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0
	3H	0.5	1.5	0.9	1.8	2.2	0.0	0.0	0.0	0.0	0.0
	4H	1.4	2.3	1.8	2.6	3.0	0.0	0.0	0.0	0.0	0.0
	6H	2.3	3.2	2.8	3.5	3.9	0.0	0.0	0.0	0.0	0.0
	8H	2.9	3.6	3.3	4.0	4.4	0.0	0.0	0.0	0.0	0.0
	12H	3.4	4.2	3.9	4.6	5.0	0.0	0.0	0.0	0.0	0.3
4H	2H	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.0	0.0
	3H	0.9	1.6	1.3	2.0	2.4	0.0	0.0	0.0	0.0	0.0
	4H	1.9	2.6	2.4	3.0	3.5	0.0	0.0	0.0	0.0	0.0
	6H	3.2	3.8	3.6	4.2	4.7	0.0	0.0	0.0	0.0	0.0
	8H	3.9	4.4	4.3	4.8	5.3	0.0	0.0	0.0	0.2	0.7
	12H	4.6	5.1	5.1	5.6	6.0	0.7	1.2	1.2	1.6	2.1
8H	4H	2.1	2.6	2.6	3.1	3.6	0.0	0.0	0.0	0.0	0.0
	6H	3.6	4.1	4.1	4.6	5.0	0.0	0.0	0.1	0.5	1.0
	8H	4.5	4.9	5.0	5.4	5.9	0.8	1.2	1.4	1.7	2.2
	12H	5.5	5.9	6.1	6.4	6.9	2.4	2.7	2.9	3.2	3.8
12H	4H	2.1	2.6	2.6	3.1	3.5	0.0	0.0	0.0	0.0	0.0
	6H	3.7	4.1	4.3	4.6	5.1	0.1	0.5	0.6	0.9	1.5
	8H	4.7	5.0	5.2	5.5	6.1	1.5	1.8	2.0	2.3	2.9

Maximum UGR = 6.9

POLAR GRAPH



Maximum Candela = 343.01 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)