

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PREZZO WP STANDALONE UNIT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 2025120903
[TESTLAB]
[TESTDATE] 2025-12-09
[ISSUEDATE] 2025-12-09 19:20:28
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-2000H_V1 SYSTEM
[MANUFAC] BELUCE CANADA INC.
[LUMINAIRE] PREZZO WP STANDALONE UNIT
[LAMP]
[OTHER]
[OTHER] Gamma(deg) Fz(lm) Ft(lm) %Lum %Lamp
[OTHER] 0- 10 19.23 19.23 19.21 19.21
[OTHER] 10- 20 36.48 55.71 55.64 55.64
[OTHER] 20- 30 25.12 80.83 80.73 80.73
[OTHER] 30- 40 11.57 92.41 92.28 92.28
[OTHER] 40- 50 4.25 96.66 96.53 96.53
[OTHER] 50- 60 1.63 98.28 98.15 98.15
[OTHER] 60- 70 0.98 99.26 99.13 99.13
[OTHER] 70- 80 0.59 99.85 99.71 99.71
[OTHER] 80- 90 0.29 100.13 100.00 100.00
[OTHER] 90-100 0.00 100.13 100.00 100.00
[OTHER] 100-110 0.00 100.13 100.00 100.00
[OTHER] 110-120 0.00 100.13 100.00 100.00
[OTHER] 120-130 0.00 100.13 100.00 100.00
[OTHER] 130-140 0.00 100.13 100.00 100.00
[OTHER] 140-150 0.00 100.13 100.00 100.00
[OTHER] 150-160 0.00 100.13 100.00 100.00
[OTHER] 160-170 0.00 100.13 100.00 100.00
[OTHER] 170-180 0.00 100.13 100.00 100.00
[OTHER]

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

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CHARACTERISTICS

Lumens Per Lamp	100.13 (1 lamp)
Total Lamp Lumens	100.13
Luminaire Lumens	101
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	N.A.
Total Luminaire Watts	0
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.58
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	1110	883	474
55	769	544	256
65	605	444	182
75	577	516	17
85	883	597	0

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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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	216.82	215.77	214.75	213.77	212.82	211.91	211.04	210.21	209.42	208.24
5.0	198.08	196.12	194.25	192.47	190.78	189.08	187.31	185.64	184.06	181.65
7.5	172.69	170.04	167.56	165.02	162.75	160.41	157.62	155.83	153.49	151.28
10.0	145.09	141.95	139.01	136.09	133.28	130.52	127.69	124.96	122.94	120.96
12.5	123.29	120.02	116.91	113.75	110.67	107.49	105.23	102.18	99.48	96.48
15.0	101.49	98.39	95.42	92.18	89.61	86.92	84.58	81.89	79.13	76.66
17.5	79.68	77.04	74.52	72.16	69.90	67.96	65.86	63.73	61.36	60.27
20.0	57.88	55.94	54.21	52.81	51.55	50.32	49.12	47.83	47.30	46.28
22.5	48.28	46.46	44.56	43.27	41.81	40.41	39.09	38.04	36.92	35.72
25.0	38.69	37.32	35.78	34.61	33.46	32.30	31.32	30.40	29.35	28.49
27.5	29.10	28.16	27.00	26.23	25.45	24.65	23.95	23.12	22.58	22.17
30.0	19.50	19.09	18.40	18.16	17.76	17.34	16.88	16.44	16.40	16.66
32.5	16.75	16.31	15.60	15.23	14.56	13.82	13.04	12.42	12.22	12.05
35.0	13.99	13.62	13.06	12.75	12.19	11.56	10.97	10.60	10.46	10.11
37.5	11.24	10.96	10.56	10.34	9.92	9.43	8.96	8.88	8.77	8.38
40.0	8.48	8.31	8.11	8.00	7.73	7.41	7.22	7.20	7.00	6.77
42.5	5.73	5.71	5.69	5.72	5.67	5.52	5.54	5.57	5.41	5.22
45.0	3.47	3.57	3.67	3.78	3.81	3.84	3.91	3.96	3.97	3.95
47.5	2.71	2.82	2.94	3.01	3.04	3.07	3.10	2.96	2.98	3.01
50.0	2.46	2.55	2.66	2.72	2.74	2.77	2.78	2.66	2.64	2.63
52.5	2.20	2.28	2.38	2.43	2.46	2.48	2.46	2.37	2.35	2.35
55.0	1.95	2.01	2.09	2.13	2.15	2.18	2.16	2.10	2.08	2.06
57.5	1.69	1.74	1.80	1.84	1.86	1.89	1.86	1.83	1.82	1.78
60.0	1.43	1.47	1.50	1.54	1.56	1.59	1.57	1.56	1.54	1.50
62.5	1.28	1.31	1.34	1.36	1.37	1.39	1.38	1.36	1.31	1.28
65.0	1.13	1.15	1.16	1.18	1.21	1.24	1.23	1.23	1.19	1.16
67.5	0.97	0.98	0.99	1.01	1.05	1.08	1.09	1.10	1.08	1.06
70.0	0.82	0.82	0.82	0.83	0.89	0.93	0.95	0.97	0.98	0.96
72.5	0.74	0.74	0.74	0.75	0.80	0.83	0.85	0.86	0.88	0.86
75.0	0.66	0.66	0.66	0.67	0.71	0.74	0.75	0.77	0.78	0.76
77.5	0.58	0.58	0.58	0.59	0.63	0.65	0.66	0.67	0.67	0.66
80.0	0.50	0.50	0.50	0.51	0.54	0.55	0.56	0.57	0.57	0.57
82.5	0.42	0.42	0.42	0.43	0.46	0.46	0.46	0.47	0.46	0.47
85.0	0.34	0.34	0.34	0.35	0.37	0.36	0.37	0.37	0.37	0.37
87.5	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
90.0	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	207.90	207.13	206.41	205.74	205.43	204.56	204.05	203.59	203.19	202.84
5.0	181.02	179.41	177.91	176.52	176.02	174.02	172.75	171.60	170.57	169.65
7.5	149.29	147.49	145.79	144.18	142.48	140.87	139.20	137.69	136.36	135.15
10.0	118.77	116.41	113.97	112.23	110.40	108.72	107.25	105.79	104.39	103.24
12.5	93.68	91.06	88.78	86.90	85.04	83.17	81.70	80.33	79.00	77.97
15.0	74.48	72.64	70.67	68.63	66.67	64.74	63.43	62.16	61.04	59.92
17.5	58.68	56.84	55.15	53.60	52.07	51.37	50.08	48.85	47.76	46.87
20.0	45.08	43.87	43.00	42.20	41.28	40.20	39.37	38.51	37.70	37.02
22.5	34.70	33.94	33.52	32.89	32.38	31.55	30.72	30.11	29.36	28.49
25.0	27.95	27.44	26.78	26.16	24.96	24.29	23.81	23.04	22.09	21.13
27.5	21.93	21.54	20.97	20.20	19.65	18.99	18.09	17.06	16.32	15.82
30.0	16.50	16.20	15.74	15.33	14.88	14.12	13.48	13.04	12.66	12.53

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CANDELA TABULATION - (Cont.)

32.5	11.49	11.50	11.28	11.19	10.67	10.45	10.18	9.99	9.97	9.82
35.0	9.75	9.02	8.63	7.99	7.71	7.61	7.65	7.62	7.46	7.23
37.5	7.79	7.51	7.07	6.69	6.27	6.01	5.65	5.44	5.39	5.31
40.0	6.40	6.16	5.82	5.46	5.24	4.94	4.59	4.28	3.87	3.80
42.5	5.13	4.92	4.68	4.50	4.31	4.01	3.75	3.42	3.28	3.16
45.0	3.98	3.90	3.76	3.69	3.44	3.26	3.00	2.89	2.76	2.62
47.5	3.07	2.94	3.00	2.92	2.77	2.64	2.52	2.41	2.32	2.17
50.0	2.59	2.49	2.44	2.33	2.24	2.18	2.08	2.04	1.95	1.83
52.5	2.26	2.23	2.13	2.01	1.92	1.82	1.75	1.73	1.68	1.51
55.0	1.98	1.96	1.85	1.76	1.72	1.55	1.56	1.51	1.38	1.30
57.5	1.73	1.67	1.60	1.55	1.46	1.39	1.35	1.29	1.19	1.16
60.0	1.47	1.43	1.38	1.36	1.25	1.23	1.18	1.09	1.05	1.03
62.5	1.23	1.21	1.19	1.16	1.06	1.03	0.99	0.95	0.93	0.92
65.0	1.13	1.09	1.07	0.98	0.91	0.87	0.85	0.83	0.83	0.80
67.5	1.03	1.00	0.98	0.90	0.85	0.79	0.76	0.73	0.72	0.69
70.0	0.94	0.92	0.89	0.82	0.78	0.72	0.70	0.68	0.66	0.63
72.5	0.85	0.84	0.80	0.75	0.72	0.68	0.65	0.64	0.62	0.58
75.0	0.75	0.73	0.70	0.66	0.64	0.61	0.60	0.59	0.59	0.55
77.5	0.65	0.63	0.60	0.57	0.54	0.51	0.51	0.50	0.50	0.49
80.0	0.55	0.53	0.51	0.48	0.45	0.42	0.41	0.42	0.41	0.41
82.5	0.45	0.43	0.41	0.39	0.35	0.33	0.32	0.32	0.32	0.33
85.0	0.34	0.33	0.32	0.31	0.26	0.24	0.23	0.24	0.23	0.23
87.5	0.25	0.24	0.23	0.22	0.17	0.15	0.15	0.15	0.15	0.15
90.0	0.15	0.15	0.13	0.13	0.09	0.06	0.06	0.06	0.06	0.06

Vert. Horizontal Angles
Angles

	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5
0.0	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	201.61	202.14	202.09	201.90	201.77	201.71	201.71	201.78	201.92	202.13
5.0	168.85	167.74	167.56	167.04	166.64	166.38	166.24	166.23	166.36	166.62
7.5	134.07	132.41	132.25	131.78	130.72	130.06	129.59	128.28	129.22	129.37
10.0	102.16	100.30	100.30	99.55	98.90	98.36	97.99	97.78	97.56	97.50
12.5	77.20	76.42	75.76	75.18	74.62	74.07	73.54	73.09	72.75	71.67
15.0	58.96	58.10	57.42	56.90	56.15	56.19	55.99	55.73	55.36	55.14
17.5	46.12	45.65	45.13	44.52	43.91	43.44	43.08	42.80	42.57	42.24
20.0	36.26	35.45	34.65	33.89	33.19	32.58	32.12	31.92	31.79	31.77
22.5	27.56	26.60	25.81	25.20	24.70	24.24	24.04	24.04	24.01	23.98
25.0	20.45	19.93	19.50	19.30	19.09	18.95	18.74	18.49	18.40	18.25
27.5	15.64	15.49	15.36	15.00	14.88	14.64	14.36	14.18	14.11	13.85
30.0	12.43	12.24	11.94	11.43	11.28	11.13	11.01	10.84	10.58	10.32
32.5	9.55	9.18	9.03	8.86	8.66	8.28	7.89	7.65	7.44	7.24
35.0	7.11	6.99	6.84	6.39	6.15	5.90	5.63	5.36	5.12	4.90
37.5	5.23	5.13	4.87	4.72	4.42	4.16	3.96	3.77	3.58	3.42
40.0	3.90	3.82	3.62	3.42	3.26	3.11	2.99	2.85	2.73	2.63
42.5	3.00	2.84	2.73	2.58	2.52	2.45	2.41	2.36	2.24	2.13
45.0	2.45	2.26	2.11	2.09	2.03	2.00	1.97	1.95	1.90	1.80
47.5	2.02	1.88	1.80	1.69	1.65	1.65	1.62	1.61	1.63	1.56
50.0	1.68	1.60	1.52	1.45	1.40	1.37	1.37	1.37	1.37	1.38
52.5	1.45	1.39	1.33	1.27	1.23	1.17	1.17	1.18	1.17	1.17
55.0	1.27	1.22	1.18	1.13	1.10	1.06	1.00	1.01	1.00	1.00
57.5	1.12	1.10	1.06	1.03	0.99	0.95	0.93	0.88	0.85	0.85
60.0	1.01	0.98	0.97	0.93	0.91	0.88	0.83	0.77	0.74	0.75
62.5	0.89	0.88	0.86	0.86	0.85	0.80	0.75	0.72	0.68	0.62
65.0	0.79	0.78	0.75	0.77	0.75	0.73	0.71	0.65	0.59	0.54
67.5	0.68	0.67	0.67	0.67	0.65	0.65	0.63	0.59	0.54	0.48

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CANDELA TABULATION - (Cont.)

70.0	0.61	0.57	0.58	0.57	0.55	0.54	0.53	0.54	0.52	0.44
72.5	0.57	0.54	0.53	0.47	0.45	0.43	0.44	0.45	0.46	0.45
75.0	0.54	0.52	0.49	0.43	0.39	0.34	0.36	0.34	0.36	0.36
77.5	0.51	0.50	0.46	0.43	0.39	0.36	0.30	0.25	0.26	0.25
80.0	0.42	0.41	0.39	0.40	0.40	0.37	0.31	0.26	0.20	0.15
82.5	0.33	0.32	0.31	0.31	0.31	0.30	0.27	0.27	0.24	0.17
85.0	0.24	0.23	0.22	0.22	0.23	0.21	0.21	0.20	0.19	0.17
87.5	0.15	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.12	0.11
90.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	202.39	202.73	203.13	203.59	204.11	204.70	205.35	205.43	205.57	205.78
5.0	167.01	167.53	167.15	168.40	169.66	170.92	172.19	172.25	172.32	172.38
7.5	129.68	130.16	130.82	131.66	132.69	133.92	135.36	135.57	135.99	136.62
10.0	97.59	97.85	98.30	97.94	99.31	100.69	102.07	102.04	102.02	101.99
12.5	72.28	72.36	72.55	72.89	73.39	74.08	74.98	75.04	75.34	75.86
15.0	55.02	54.82	54.76	54.85	54.75	55.44	56.13	56.04	55.96	56.73
17.5	41.99	41.94	41.95	42.09	42.37	42.79	43.37	43.49	43.77	44.21
20.0	31.88	32.02	32.12	32.15	31.96	32.42	32.88	32.97	33.06	33.91
22.5	24.03	23.84	24.05	24.06	24.18	24.36	24.68	24.76	24.99	25.37
25.0	18.10	18.05	18.01	18.01	18.06	18.14	18.44	18.28	18.36	18.51
27.5	13.69	13.51	13.37	13.33	13.35	13.44	13.61	13.55	13.58	13.70
30.0	10.03	9.90	9.84	9.73	9.60	9.48	9.53	9.55	9.74	9.93
32.5	7.08	6.93	6.73	6.70	6.65	6.64	6.69	6.68	6.73	6.84
35.0	4.75	4.59	4.51	4.47	4.45	4.40	4.46	4.45	4.55	4.66
37.5	3.28	3.22	3.21	3.20	3.18	3.14	3.12	3.15	3.20	3.25
40.0	2.52	2.42	2.42	2.44	2.42	2.34	2.30	2.34	2.43	2.48
42.5	2.04	1.97	1.94	1.96	1.96	1.89	1.83	1.88	1.93	1.96
45.0	1.71	1.64	1.58	1.61	1.62	1.55	1.48	1.52	1.58	1.60
47.5	1.47	1.39	1.33	1.33	1.34	1.28	1.21	1.25	1.28	1.28
50.0	1.29	1.21	1.13	1.09	1.12	1.07	0.98	1.02	1.06	1.02
52.5	1.13	1.03	0.93	0.86	0.92	0.89	0.80	0.86	0.88	0.83
55.0	0.99	0.90	0.81	0.72	0.76	0.76	0.65	0.73	0.72	0.68
57.5	0.86	0.82	0.71	0.61	0.62	0.65	0.55	0.62	0.59	0.58
60.0	0.71	0.70	0.62	0.52	0.50	0.57	0.46	0.56	0.50	0.52
62.5	0.60	0.59	0.56	0.46	0.39	0.49	0.39	0.48	0.39	0.46
65.0	0.48	0.47	0.50	0.42	0.34	0.41	0.34	0.41	0.31	0.39
67.5	0.39	0.37	0.41	0.39	0.30	0.37	0.27	0.34	0.26	0.34
70.0	0.38	0.30	0.33	0.39	0.29	0.32	0.22	0.25	0.21	0.29
72.5	0.36	0.30	0.25	0.31	0.24	0.20	0.14	0.15	0.15	0.18
75.0	0.36	0.28	0.18	0.16	0.17	0.07	0.02	0.02	0.09	0.05
77.5	0.26	0.25	0.16	0.05	0.13	0.02	0.00	0.01	0.08	0.00
80.0	0.14	0.14	0.15	0.06	0.04	0.04	0.00	0.02	0.02	0.01
82.5	0.10	0.02	0.06	0.08	0.02	0.04	0.00	0.03	0.00	0.02
85.0	0.16	0.10	0.03	0.02	0.03	0.01	0.00	0.00	0.00	0.00
87.5	0.10	0.10	0.10	0.08	0.02	0.01	0.00	0.00	0.00	0.00
90.0	0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.00	0.00	0.00

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	206.04	206.36	206.74	207.17	207.67	208.21	208.81	209.47	210.17	210.93

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CANDELA TABULATION - (Cont.)

5.0	172.44	174.16	174.95	175.86	176.90	178.08	179.33	180.73	182.24	183.86
7.5	137.46	138.50	139.77	141.21	142.87	143.63	146.82	149.10	151.58	154.13
10.0	103.90	104.99	106.34	107.96	109.84	112.00	113.96	116.03	118.38	120.95
12.5	76.62	77.60	78.81	79.41	81.82	83.33	85.05	86.97	88.96	91.02
15.0	57.33	58.14	59.15	60.03	61.06	62.34	63.50	64.69	65.67	67.95
17.5	44.79	45.53	46.11	46.78	47.52	48.10	48.88	49.84	50.91	52.40
20.0	34.58	35.21	35.82	36.44	36.91	37.48	38.31	39.30	40.23	40.97
22.5	25.88	26.13	26.81	27.24	27.78	28.55	29.33	29.91	30.53	31.23
25.0	18.77	19.12	19.50	19.95	20.43	20.83	21.73	22.52	23.17	23.81
27.5	13.88	14.18	14.61	15.14	15.69	15.95	16.35	16.83	17.38	17.85
30.0	10.13	10.35	10.65	11.04	11.28	11.71	12.07	12.68	13.25	13.85
32.5	6.96	7.32	7.70	8.00	8.25	8.54	8.88	9.29	9.76	10.23
35.0	4.80	4.98	5.21	5.36	5.60	5.89	6.29	6.69	7.16	7.53
37.5	3.33	3.46	3.59	3.75	3.91	4.08	4.29	4.59	4.93	5.28
40.0	2.50	2.54	2.64	2.73	2.85	2.99	3.15	3.29	3.46	3.68
42.5	1.98	2.04	2.13	2.21	2.30	2.41	2.46	2.51	2.60	2.70
45.0	1.61	1.69	1.77	1.87	1.98	2.03	2.03	2.04	2.09	2.12
47.5	1.31	1.40	1.50	1.61	1.71	1.70	1.70	1.70	1.71	1.75
50.0	1.07	1.17	1.28	1.38	1.41	1.43	1.45	1.45	1.46	1.52
52.5	0.90	0.99	1.10	1.17	1.19	1.22	1.21	1.26	1.31	1.35
55.0	0.77	0.86	0.96	0.98	1.01	1.05	1.06	1.13	1.17	1.24
57.5	0.66	0.74	0.79	0.82	0.85	0.89	0.97	1.03	1.08	1.12
60.0	0.60	0.66	0.64	0.66	0.72	0.79	0.86	0.95	1.01	1.06
62.5	0.56	0.55	0.53	0.54	0.61	0.71	0.79	0.86	0.94	0.97
65.0	0.47	0.44	0.41	0.47	0.56	0.64	0.73	0.80	0.82	0.85
67.5	0.36	0.31	0.34	0.41	0.51	0.60	0.67	0.67	0.68	0.70
70.0	0.23	0.20	0.27	0.35	0.45	0.52	0.53	0.54	0.54	0.55
72.5	0.09	0.15	0.22	0.30	0.34	0.37	0.39	0.40	0.41	0.41
75.0	0.02	0.08	0.16	0.19	0.19	0.23	0.25	0.26	0.32	0.36
77.5	0.03	0.08	0.07	0.07	0.06	0.10	0.17	0.23	0.29	0.32
80.0	0.05	0.03	0.02	0.00	0.02	0.09	0.15	0.20	0.24	0.28
82.5	0.01	0.00	0.01	0.02	0.06	0.10	0.13	0.15	0.17	0.20
85.0	0.00	0.01	0.01	0.04	0.04	0.05	0.08	0.10	0.11	0.13
87.5	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	211.73	212.37	212.42	214.25	215.15	216.09	217.10	218.07	219.10	220.17
5.0	185.59	186.93	189.33	191.36	193.50	195.74	198.08	200.53	202.56	204.53
7.5	156.27	157.74	160.89	163.40	166.08	168.92	171.83	174.78	177.65	180.50
10.0	123.74	125.35	128.98	131.59	134.33	137.36	140.57	143.74	147.59	151.53
12.5	93.22	95.67	98.51	101.44	104.73	108.43	112.24	115.79	119.03	122.53
15.0	69.88	72.08	74.79	77.36	80.03	82.73	85.74	88.76	92.40	96.02
17.5	53.86	55.23	56.83	58.59	60.58	62.86	65.37	68.19	70.59	73.96
20.0	41.81	42.82	43.97	45.39	46.88	48.78	50.72	52.66	54.79	57.19
22.5	32.15	33.13	34.17	35.39	36.72	38.09	39.66	41.41	43.17	44.69
25.0	24.58	25.34	26.08	27.14	28.28	29.57	31.05	32.27	33.77	35.44
27.5	18.82	19.47	20.15	20.81	21.52	22.50	23.60	24.87	26.19	27.36
30.0	14.52	15.25	15.79	16.09	16.55	17.19	17.79	18.65	19.60	20.53
32.5	10.88	11.55	11.95	12.36	12.66	12.90	13.32	13.77	14.23	14.92
35.0	7.94	8.33	8.75	9.17	9.29	9.63	9.75	9.86	10.14	10.71
37.5	5.53	5.92	6.29	6.62	6.84	6.82	7.08	7.56	8.00	8.68
40.0	3.86	4.09	4.28	4.56	4.99	5.45	5.69	6.09	6.48	6.85

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CANDELA TABULATION - (Cont.)

42.5	2.84	2.90	3.00	3.34	3.80	4.29	4.68	4.87	5.18	5.46
45.0	2.15	2.30	2.49	2.64	2.93	3.32	3.69	3.93	4.06	4.27
47.5	1.84	1.92	2.04	2.20	2.35	2.62	2.90	3.12	3.19	3.27
50.0	1.58	1.67	1.73	1.82	1.96	2.12	2.33	2.44	2.50	2.54
52.5	1.41	1.46	1.53	1.58	1.63	1.73	1.90	2.05	2.09	2.15
55.0	1.27	1.31	1.35	1.40	1.42	1.46	1.57	1.72	1.81	1.88
57.5	1.18	1.19	1.23	1.23	1.26	1.27	1.33	1.46	1.57	1.60
60.0	1.08	1.10	1.08	1.10	1.11	1.12	1.14	1.21	1.31	1.34
62.5	0.96	0.96	0.96	0.97	0.96	0.97	0.99	1.02	1.08	1.11
65.0	0.83	0.83	0.84	0.82	0.85	0.83	0.84	0.85	0.89	0.93
67.5	0.70	0.70	0.71	0.70	0.74	0.71	0.74	0.77	0.80	0.84
70.0	0.59	0.57	0.60	0.62	0.65	0.66	0.68	0.70	0.72	0.75
72.5	0.47	0.51	0.53	0.57	0.58	0.61	0.63	0.63	0.66	0.67
75.0	0.42	0.46	0.50	0.51	0.54	0.54	0.56	0.56	0.57	0.58
77.5	0.38	0.40	0.44	0.43	0.45	0.45	0.47	0.47	0.47	0.49
80.0	0.31	0.32	0.34	0.34	0.36	0.36	0.38	0.38	0.38	0.39
82.5	0.22	0.24	0.25	0.26	0.27	0.27	0.28	0.29	0.29	0.30
85.0	0.14	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21
87.5	0.07	0.08	0.08	0.09	0.09	0.09	0.10	0.12	0.11	0.12
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.02	0.03

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	221.26	222.38	223.52	224.18	225.68	226.76	227.84	228.93	230.03	231.14
5.0	206.59	208.73	210.93	212.10	215.22	217.39	219.61	221.88	224.03	226.11
7.5	183.48	186.58	189.80	192.96	196.03	199.23	201.76	205.57	208.77	211.81
10.0	155.41	159.92	164.36	168.76	173.03	177.34	181.67	186.04	190.31	194.09
12.5	126.24	130.42	134.99	139.58	144.22	148.10	152.93	157.17	161.46	165.69
15.0	99.40	102.85	106.74	110.30	115.57	120.15	124.68	128.99	133.19	136.93
17.5	77.09	80.29	83.15	86.78	89.62	94.40	98.44	102.46	106.40	110.11
20.0	59.74	61.82	64.29	66.63	69.06	71.30	74.74	77.75	80.89	83.89
22.5	45.85	48.02	49.72	51.64	53.82	56.30	59.13	62.11	65.26	68.51
25.0	36.84	37.94	39.68	41.15	42.76	44.51	46.71	49.10	51.57	54.23
27.5	28.67	29.93	30.71	31.94	32.89	34.07	35.46	36.97	38.71	40.47
30.0	21.55	22.49	23.40	23.62	24.24	24.64	25.24	25.78	26.60	27.29
32.5	15.48	16.04	16.51	17.59	18.04	18.79	19.63	20.59	21.61	22.62
35.0	11.62	12.53	13.47	14.49	15.13	15.68	16.38	17.19	17.96	18.86
37.5	9.33	10.01	10.76	11.61	12.47	12.80	13.30	13.90	14.49	15.20
40.0	7.42	7.93	8.45	9.07	9.67	10.05	10.41	10.78	11.18	11.63
42.5	5.75	6.12	6.44	6.81	7.14	7.49	7.65	7.80	7.96	8.15
45.0	4.42	4.60	4.70	4.80	4.88	4.98	4.99	5.10	5.13	5.18
47.5	3.29	3.26	3.35	3.36	3.39	3.45	3.69	3.85	3.91	3.98
50.0	2.53	2.64	2.74	2.79	2.91	3.03	3.23	3.38	3.45	3.51
52.5	2.24	2.30	2.39	2.46	2.54	2.65	2.80	2.93	2.99	3.02
55.0	1.94	2.00	2.06	2.14	2.19	2.27	2.39	2.48	2.52	2.54
57.5	1.66	1.70	1.75	1.83	1.85	1.91	1.99	2.05	2.06	2.06
60.0	1.39	1.42	1.45	1.51	1.52	1.56	1.60	1.63	1.61	1.58
62.5	1.13	1.16	1.18	1.23	1.28	1.31	1.36	1.39	1.39	1.37
65.0	0.98	1.04	1.07	1.11	1.15	1.16	1.19	1.21	1.21	1.19
67.5	0.88	0.93	0.96	1.00	1.02	1.02	1.03	1.04	1.03	1.01
70.0	0.79	0.83	0.85	0.90	0.89	0.88	0.87	0.86	0.85	0.83
72.5	0.70	0.73	0.75	0.79	0.78	0.77	0.77	0.77	0.76	0.75
75.0	0.60	0.63	0.66	0.69	0.69	0.69	0.68	0.68	0.68	0.67
77.5	0.50	0.53	0.57	0.59	0.60	0.60	0.60	0.60	0.59	0.58

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CANDELA TABULATION - (Cont.)

80.0	0.42	0.44	0.48	0.50	0.51	0.51	0.51	0.52	0.51	0.50
82.5	0.33	0.34	0.39	0.41	0.42	0.42	0.43	0.43	0.43	0.43
85.0	0.23	0.25	0.30	0.33	0.33	0.33	0.34	0.35	0.35	0.34
87.5	0.15	0.16	0.21	0.23	0.24	0.24	0.26	0.27	0.27	0.27
90.0	0.06	0.07	0.12	0.15	0.15	0.16	0.17	0.18	0.18	0.18

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	232.25	233.36	234.48	235.36	236.23	237.10	237.97	238.82	239.66	240.49
5.0	228.23	230.38	232.57	234.40	236.25	238.13	240.01	241.23	243.32	244.88
7.5	215.11	218.26	221.50	224.32	227.21	230.17	232.76	235.36	238.02	240.45
10.0	198.64	203.02	207.40	211.14	214.87	218.25	222.29	225.77	229.03	232.34
12.5	170.02	174.37	178.94	183.09	186.92	191.75	196.15	200.42	204.76	208.30
15.0	141.60	145.93	150.47	154.68	159.09	163.69	167.93	172.27	176.63	180.71
17.5	113.87	117.80	122.00	126.01	130.36	134.75	138.88	142.98	147.07	151.11
20.0	86.08	89.79	93.54	96.87	100.41	105.11	108.84	112.75	116.70	120.43
22.5	71.17	74.35	77.79	80.95	84.55	87.59	90.45	93.25	95.67	97.87
25.0	56.78	59.29	62.06	64.63	67.81	70.61	73.20	75.65	77.83	79.87
27.5	42.39	44.25	46.31	48.42	50.83	53.31	55.55	57.65	59.89	62.07
30.0	27.78	29.23	30.57	31.75	33.04	35.76	37.60	39.53	41.77	43.82
32.5	23.82	25.04	26.17	27.24	28.60	29.80	30.56	31.41	32.07	32.47
35.0	19.80	20.84	21.77	22.66	23.88	24.82	25.49	26.32	26.78	27.31
37.5	15.87	16.68	17.37	18.05	19.05	19.79	20.38	21.09	21.54	22.10
40.0	12.02	12.51	12.97	13.36	14.14	14.72	15.27	15.86	16.35	16.91
42.5	8.25	8.46	8.57	8.74	9.18	9.61	10.10	10.60	11.17	11.78
45.0	5.10	5.10	4.96	4.88	5.00	5.18	5.40	5.67	5.96	6.63
47.5	3.92	3.90	3.72	3.56	3.55	3.57	3.58	3.62	3.62	3.65
50.0	3.45	3.43	3.26	3.12	3.12	3.13	3.14	3.18	3.18	3.19
52.5	2.98	2.96	2.81	2.70	2.68	2.69	2.71	2.74	2.74	2.74
55.0	2.51	2.48	2.36	2.27	2.25	2.24	2.27	2.29	2.31	2.31
57.5	2.03	2.00	1.91	1.85	1.82	1.81	1.83	1.85	1.87	1.88
60.0	1.54	1.52	1.46	1.41	1.36	1.37	1.39	1.41	1.45	1.48
62.5	1.35	1.33	1.28	1.24	1.19	1.18	1.19	1.18	1.19	1.19
65.0	1.16	1.13	1.10	1.05	1.01	1.00	1.01	1.01	1.03	1.02
67.5	0.97	0.93	0.92	0.87	0.83	0.83	0.84	0.84	0.86	0.86
70.0	0.77	0.73	0.73	0.70	0.65	0.66	0.67	0.68	0.69	0.69
72.5	0.70	0.67	0.67	0.63	0.59	0.59	0.60	0.60	0.60	0.60
75.0	0.63	0.60	0.60	0.56	0.54	0.54	0.54	0.54	0.54	0.54
77.5	0.56	0.53	0.53	0.50	0.47	0.48	0.48	0.48	0.48	0.48
80.0	0.48	0.46	0.46	0.44	0.42	0.42	0.42	0.42	0.42	0.42
82.5	0.41	0.39	0.39	0.37	0.36	0.36	0.36	0.36	0.36	0.36
85.0	0.33	0.32	0.32	0.31	0.30	0.30	0.30	0.30	0.30	0.30
87.5	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24
90.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	241.30	242.10	242.43	243.42	244.02	244.60	245.16	245.71	246.27	246.72
5.0	246.43	247.99	249.41	250.72	252.03	253.32	254.60	255.57	256.37	256.97
7.5	242.84	245.27	247.52	249.64	251.77	253.82	255.62	257.20	258.49	259.51
10.0	235.20	238.09	240.59	242.75	244.97	246.80	248.66	250.28	252.37	254.26
12.5	213.25	217.21	221.13	225.04	229.07	233.20	237.49	241.45	243.39	244.76

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CANDELA TABULATION - (Cont.)

15.0	184.72	187.40	192.65	196.78	200.98	205.42	209.53	214.01	218.25	223.01
17.5	154.96	158.83	162.23	167.24	171.25	175.49	179.92	183.96	188.07	192.02
20.0	124.14	128.13	132.21	136.37	140.63	144.72	148.74	152.81	156.55	160.36
22.5	100.09	102.15	104.11	106.17	109.42	113.43	117.36	121.37	125.21	128.51
25.0	82.15	84.12	86.21	87.97	89.43	90.69	92.08	92.97	94.87	97.83
27.5	64.05	66.25	68.28	70.14	71.67	73.08	74.07	74.55	74.92	75.27
30.0	46.13	48.49	50.89	52.87	54.64	55.76	57.09	57.98	58.68	59.15
32.5	33.02	33.71	34.06	36.32	38.34	40.32	41.89	43.40	44.16	44.87
35.0	27.87	28.44	28.57	28.40	28.37	28.16	28.30	30.11	31.64	32.63
37.5	22.77	23.11	23.15	23.13	23.17	23.04	22.66	22.41	22.04	22.54
40.0	17.55	17.83	17.94	18.20	18.19	18.09	18.03	17.85	17.50	16.88
42.5	12.36	12.70	13.08	13.38	13.55	13.72	13.76	13.68	13.31	13.01
45.0	7.24	7.78	8.39	8.90	9.31	9.68	9.91	9.89	9.83	9.75
47.5	3.79	4.12	4.45	4.72	5.40	5.99	6.41	6.64	6.87	6.94
50.0	3.10	3.07	3.02	2.96	2.91	3.29	3.48	3.91	4.33	4.63
52.5	2.68	2.67	2.62	2.59	2.54	2.45	2.34	2.24	2.52	2.71
55.0	2.28	2.27	2.25	2.23	2.18	2.10	2.04	1.98	1.93	1.85
57.5	1.88	1.90	1.89	1.90	1.85	1.80	1.76	1.74	1.67	1.65
60.0	1.50	1.53	1.54	1.56	1.55	1.53	1.52	1.50	1.47	1.46
62.5	1.20	1.22	1.21	1.24	1.27	1.29	1.30	1.28	1.28	1.29
65.0	1.04	1.05	1.05	1.06	1.07	1.08	1.10	1.10	1.12	1.11
67.5	0.88	0.89	0.89	0.89	0.90	0.91	0.93	0.93	0.96	0.96
70.0	0.71	0.73	0.72	0.73	0.73	0.74	0.76	0.78	0.81	0.82
72.5	0.60	0.60	0.59	0.58	0.57	0.58	0.61	0.63	0.66	0.67
75.0	0.54	0.54	0.53	0.53	0.51	0.50	0.51	0.52	0.54	0.54
77.5	0.48	0.47	0.46	0.47	0.45	0.45	0.46	0.47	0.49	0.48
80.0	0.42	0.42	0.41	0.41	0.40	0.40	0.40	0.41	0.43	0.41
82.5	0.36	0.36	0.35	0.35	0.34	0.35	0.35	0.36	0.36	0.35
85.0	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30
87.5	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
90.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	247.20	247.65	248.07	248.47	248.53	249.05	249.30	249.52	249.72	249.89
5.0	257.54	258.07	258.57	259.03	259.05	259.56	259.76	259.94	260.08	260.25
7.5	260.53	261.44	262.35	263.25	264.13	265.01	265.21	265.24	265.25	265.24
10.0	256.16	257.84	259.58	261.38	262.38	262.96	263.60	264.28	265.06	265.28
12.5	246.24	247.71	249.20	250.85	252.31	253.78	255.42	256.97	256.94	257.31
15.0	226.92	231.34	233.84	234.72	235.71	236.88	238.34	239.40	240.58	241.55
17.5	196.04	200.12	204.02	207.88	211.25	212.11	212.85	211.58	211.78	212.27
20.0	164.12	166.92	169.55	171.84	173.94	175.85	177.73	177.96	178.16	176.18
22.5	131.02	133.21	135.48	136.73	137.93	138.60	139.07	139.41	139.29	138.54
25.0	100.48	102.73	104.23	105.16	105.59	105.60	105.59	105.53	105.26	105.12
27.5	75.76	77.15	78.50	79.36	79.67	79.40	79.21	78.89	78.77	78.58
30.0	59.29	59.38	59.06	59.28	59.75	59.89	59.61	59.26	58.91	58.79
32.5	45.29	45.27	45.38	45.32	45.13	45.41	45.25	45.01	44.77	44.69
35.0	33.40	33.88	34.13	34.55	34.50	34.50	34.57	34.15	34.05	33.93
37.5	23.46	24.24	24.90	25.32	25.68	25.72	25.75	25.91	25.73	25.42
40.0	16.41	16.55	17.42	18.02	18.39	18.72	18.98	19.08	19.07	18.70
42.5	12.72	12.30	11.89	12.12	12.67	13.00	13.26	13.31	13.38	13.19
45.0	9.54	9.30	8.87	8.41	7.93	8.41	8.76	8.85	8.91	8.98
47.5	6.93	6.72	6.46	6.05	5.62	5.25	5.47	5.77	5.86	5.77
50.0	4.73	4.72	4.56	4.32	4.06	3.81	3.58	3.66	3.73	3.72

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CANDELA TABULATION - (Cont.)

52.5	3.02	3.17	3.17	3.10	2.98	2.85	2.69	2.53	2.52	2.55
55.0	1.96	2.04	2.21	2.24	2.23	2.16	2.07	2.00	1.96	1.97
57.5	1.62	1.60	1.61	1.66	1.71	1.70	1.68	1.65	1.65	1.67
60.0	1.44	1.42	1.38	1.37	1.36	1.39	1.39	1.41	1.42	1.43
62.5	1.27	1.24	1.23	1.21	1.20	1.17	1.18	1.18	1.20	1.23
65.0	1.12	1.10	1.09	1.08	1.07	1.05	1.02	1.00	1.02	1.04
67.5	0.95	0.96	0.96	0.96	0.94	0.93	0.91	0.88	0.86	0.88
70.0	0.82	0.82	0.85	0.85	0.85	0.82	0.80	0.79	0.77	0.74
72.5	0.68	0.67	0.70	0.71	0.72	0.74	0.72	0.70	0.69	0.67
75.0	0.53	0.52	0.55	0.56	0.58	0.59	0.61	0.62	0.61	0.59
77.5	0.45	0.43	0.42	0.40	0.42	0.44	0.47	0.50	0.52	0.53
80.0	0.39	0.38	0.36	0.37	0.35	0.34	0.35	0.37	0.37	0.38
82.5	0.33	0.33	0.32	0.32	0.31	0.30	0.31	0.31	0.27	0.25
85.0	0.28	0.28	0.28	0.28	0.27	0.26	0.27	0.27	0.23	0.23
87.5	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.21	0.21
90.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	250.04	250.16	250.26	250.33	250.37	250.39	250.39	250.36	250.30	249.61
5.0	260.28	260.34	260.36	260.36	260.33	260.27	260.18	260.07	259.92	258.64
7.5	265.13	264.98	264.85	264.63	264.45	264.26	264.06	263.85	263.63	261.77
10.0	264.84	264.41	263.99	263.59	263.21	262.85	262.51	262.20	261.92	259.41
12.5	257.82	257.86	257.16	255.83	254.93	254.15	253.47	252.91	252.46	249.21
15.0	241.91	240.79	240.63	238.88	237.42	236.25	235.36	234.75	234.42	230.19
17.5	213.03	212.52	211.98	212.47	209.27	207.49	206.14	205.26	204.84	200.14
20.0	176.23	176.92	175.55	174.64	173.34	171.36	169.97	169.17	168.96	164.30
22.5	138.95	137.92	138.32	137.16	136.27	134.00	132.16	130.99	130.47	126.74
25.0	104.47	103.95	105.01	103.99	102.90	101.48	99.68	98.49	97.93	95.17
27.5	78.39	77.68	77.43	77.45	77.30	76.39	75.01	74.09	73.64	71.61
30.0	58.83	58.81	58.42	58.32	58.24	57.59	56.54	55.70	55.29	54.05
32.5	44.67	44.80	44.81	44.53	44.45	44.08	43.49	42.87	42.57	41.64
35.0	34.00	33.99	33.90	33.72	33.51	33.37	32.93	32.33	32.03	31.44
37.5	25.15	25.04	25.04	25.02	24.79	24.62	24.33	23.94	23.79	23.34
40.0	18.39	18.26	18.22	18.33	18.09	17.96	17.72	17.29	17.03	16.75
42.5	12.94	12.81	12.76	12.77	12.73	12.67	12.39	12.03	11.79	11.56
45.0	8.83	8.64	8.64	8.52	8.54	8.38	8.26	8.04	7.91	7.90
47.5	5.57	5.47	5.41	5.40	5.35	5.19	5.17	5.18	5.22	5.15
50.0	3.62	3.48	3.44	3.42	3.41	3.41	3.39	3.28	3.20	3.13
52.5	2.50	2.46	2.43	2.41	2.42	2.43	2.34	2.32	2.35	2.26
55.0	1.96	1.92	1.88	1.90	1.92	1.96	1.89	1.86	1.93	1.83
57.5	1.66	1.63	1.60	1.59	1.63	1.66	1.62	1.58	1.68	1.57
60.0	1.44	1.44	1.40	1.38	1.40	1.44	1.45	1.38	1.47	1.37
62.5	1.25	1.27	1.25	1.20	1.19	1.26	1.30	1.20	1.29	1.18
65.0	1.06	1.11	1.10	1.08	1.03	1.07	1.14	1.04	1.14	1.02
67.5	0.91	0.93	0.96	0.95	0.90	0.91	0.97	0.90	0.98	0.89
70.0	0.76	0.77	0.80	0.83	0.78	0.75	0.81	0.77	0.83	0.76
72.5	0.64	0.62	0.65	0.68	0.70	0.63	0.66	0.67	0.72	0.65
75.0	0.56	0.54	0.52	0.53	0.58	0.55	0.51	0.60	0.61	0.60
77.5	0.50	0.48	0.43	0.39	0.45	0.50	0.40	0.51	0.52	0.52
80.0	0.42	0.45	0.40	0.36	0.32	0.36	0.38	0.39	0.44	0.39
82.5	0.26	0.29	0.32	0.34	0.30	0.23	0.31	0.27	0.37	0.27
85.0	0.22	0.19	0.17	0.19	0.26	0.26	0.17	0.25	0.31	0.25
87.5	0.20	0.19	0.18	0.17	0.17	0.15	0.19	0.06	0.08	0.05

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CANDELA TABULATION - (Cont.)

90.0	0.18	0.18	0.18	0.18	0.18	0.18	0.16	0.03	0.00	0.22
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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	248.90	248.16	247.40	246.62	245.83	245.02	244.19	243.35	242.50	241.64
5.0	257.34	256.01	254.66	253.29	251.89	250.48	249.04	247.60	246.13	244.66
7.5	259.91	258.04	256.18	254.33	252.49	250.68	248.87	247.04	245.13	243.22
10.0	256.94	254.51	252.13	249.79	247.51	245.29	243.13	241.04	238.33	234.98
12.5	246.09	243.12	240.32	237.70	235.67	232.95	229.71	226.11	222.69	219.77
15.0	226.25	222.62	219.26	216.24	213.54	209.77	206.95	202.77	198.33	193.79
17.5	195.91	192.16	188.89	187.05	182.30	178.54	174.85	170.44	166.20	162.04
20.0	160.18	156.58	153.45	150.12	146.68	143.66	139.20	135.39	132.31	128.45
22.5	123.83	120.87	118.51	115.75	113.32	110.15	108.12	103.83	100.66	99.48
25.0	92.97	91.25	89.49	87.65	86.13	83.03	80.81	78.71	77.97	77.28
27.5	70.01	68.77	67.60	65.86	64.17	62.50	61.21	60.23	59.63	59.06
30.0	53.14	52.38	51.40	50.20	49.11	48.11	47.40	46.60	45.90	45.40
32.5	40.98	40.32	39.54	38.60	37.69	36.93	36.36	35.93	35.61	35.16
35.0	31.13	30.75	30.16	29.61	28.85	28.38	27.98	27.58	27.15	26.75
37.5	23.12	22.85	22.43	22.05	21.64	21.29	21.00	20.83	20.62	20.30
40.0	16.61	16.36	16.05	15.92	15.77	15.60	15.46	15.31	15.11	14.89
42.5	11.45	11.37	11.10	10.87	10.76	10.76	10.82	10.79	10.67	10.58
45.0	7.93	7.79	7.65	7.48	7.43	7.29	7.26	7.31	7.31	7.21
47.5	5.09	4.95	4.90	4.89	4.83	4.76	4.74	4.82	4.80	4.72
50.0	3.12	3.08	3.03	3.09	3.11	3.14	3.25	3.25	3.19	3.04
52.5	2.24	2.29	2.26	2.22	2.18	2.21	2.29	2.35	2.30	2.25
55.0	1.83	1.88	1.84	1.80	1.78	1.82	1.85	1.87	1.87	1.89
57.5	1.60	1.64	1.60	1.55	1.54	1.58	1.62	1.63	1.62	1.62
60.0	1.42	1.42	1.37	1.34	1.38	1.42	1.45	1.42	1.42	1.41
62.5	1.27	1.23	1.17	1.19	1.23	1.27	1.26	1.24	1.24	1.24
65.0	1.11	1.05	1.00	1.06	1.11	1.10	1.08	1.07	1.06	1.07
67.5	0.94	0.86	0.88	0.94	0.97	0.94	0.92	0.92	0.92	0.97
70.0	0.78	0.71	0.77	0.83	0.80	0.79	0.77	0.78	0.85	0.90
72.5	0.64	0.60	0.68	0.69	0.67	0.64	0.69	0.74	0.80	0.84
75.0	0.52	0.56	0.58	0.55	0.55	0.59	0.65	0.72	0.76	0.81
77.5	0.42	0.52	0.46	0.43	0.50	0.58	0.64	0.70	0.68	0.67
80.0	0.40	0.41	0.35	0.43	0.50	0.56	0.58	0.58	0.57	0.56
82.5	0.35	0.28	0.39	0.47	0.47	0.47	0.46	0.46	0.48	0.48
85.0	0.21	0.35	0.40	0.37	0.37	0.37	0.38	0.38	0.40	0.40
87.5	0.31	0.32	0.32	0.31	0.31	0.32	0.31	0.32	0.32	0.32
90.0	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.24	0.24	0.24

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	240.76	239.89	238.75	238.09	237.09	236.08	235.07	234.05	233.03	232.01
5.0	243.17	241.68	239.85	238.63	236.95	235.27	233.57	231.88	230.18	228.28
7.5	241.32	239.69	236.53	233.79	231.05	228.35	225.69	222.94	220.31	217.54
10.0	231.74	228.60	225.54	222.13	218.02	214.02	210.12	205.94	201.78	197.59
12.5	215.20	210.57	206.15	201.82	197.46	193.33	189.10	184.72	180.51	176.14
15.0	189.44	185.01	180.89	176.78	172.44	168.71	165.15	161.98	158.22	154.90
17.5	158.82	154.12	150.98	148.54	145.90	143.46	140.42	137.33	134.00	131.06
20.0	126.13	124.80	123.25	121.36	119.15	116.91	114.64	111.88	108.98	105.99
22.5	98.55	97.57	96.52	95.46	94.61	92.46	90.18	87.55	84.73	81.54

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CANDELA TABULATION - (Cont.)

25.0	76.30	75.68	74.47	73.39	72.04	70.40	68.51	65.93	62.67	60.53
27.5	58.58	57.94	57.07	55.86	54.36	52.58	50.98	50.50	50.16	49.42
30.0	44.84	44.18	43.35	42.23	41.20	40.89	40.51	40.07	39.53	38.94
32.5	34.57	33.83	33.09	32.67	32.36	31.98	31.54	30.92	30.19	29.34
35.0	26.35	25.99	25.72	25.35	24.74	24.22	23.61	22.92	21.99	20.74
37.5	19.93	19.58	19.31	18.98	18.39	17.59	16.71	15.82	15.53	15.71
40.0	14.75	14.47	14.02	13.50	12.97	12.18	11.91	12.00	12.34	12.63
42.5	10.34	9.98	9.63	9.12	8.76	9.13	9.45	9.58	9.57	9.74
45.0	6.89	6.50	5.97	6.26	6.75	6.99	7.19	7.35	7.35	7.22
47.5	4.49	4.15	4.36	4.66	4.94	5.25	5.32	5.37	5.30	5.10
50.0	2.97	3.19	3.37	3.47	3.64	3.76	3.84	3.72	3.53	3.21
52.5	2.33	2.44	2.58	2.68	2.70	2.70	2.62	2.40	2.26	2.08
55.0	1.92	1.96	2.01	2.06	2.04	1.93	1.87	1.84	1.86	1.90
57.5	1.64	1.63	1.63	1.63	1.62	1.62	1.64	1.69	1.71	1.74
60.0	1.40	1.42	1.38	1.40	1.45	1.49	1.53	1.54	1.59	1.60
62.5	1.21	1.22	1.27	1.30	1.34	1.37	1.41	1.42	1.45	1.46
65.0	1.10	1.13	1.16	1.20	1.23	1.28	1.30	1.32	1.33	1.34
67.5	1.01	1.05	1.09	1.12	1.16	1.18	1.20	1.21	1.18	1.18
70.0	0.94	0.98	1.02	1.04	1.06	1.06	1.06	1.05	1.02	1.02
72.5	0.89	0.93	0.93	0.93	0.93	0.93	0.92	0.89	0.87	0.85
75.0	0.81	0.79	0.78	0.78	0.79	0.80	0.78	0.75	0.73	0.72
77.5	0.66	0.65	0.65	0.64	0.66	0.68	0.67	0.65	0.63	0.63
80.0	0.54	0.54	0.54	0.55	0.57	0.59	0.58	0.56	0.55	0.54
82.5	0.46	0.46	0.47	0.46	0.47	0.49	0.48	0.46	0.45	0.45
85.0	0.39	0.38	0.38	0.38	0.38	0.39	0.38	0.37	0.37	0.36
87.5	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.28	0.28	0.27
90.0	0.23	0.23	0.22	0.22	0.21	0.19	0.18	0.18	0.18	0.18

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	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35	233.35
2.5	231.30	229.98	228.97	227.96	226.57	225.93	224.85	223.77	222.71	221.67
5.0	227.39	224.45	222.44	220.48	218.57	216.54	214.34	212.21	210.13	207.54
7.5	214.36	211.12	207.82	204.56	201.44	198.35	195.26	192.30	189.39	186.36
10.0	193.70	189.75	185.94	182.26	178.79	175.28	171.71	168.33	164.42	160.69
12.5	172.33	168.27	164.24	160.28	156.44	152.89	149.64	146.30	143.79	139.29
15.0	150.79	146.93	142.94	139.05	134.89	130.91	126.98	123.74	120.48	117.07
17.5	127.26	123.62	119.82	115.97	112.00	107.96	103.96	100.28	96.93	93.71
20.0	102.49	99.05	95.55	91.81	87.84	83.93	80.00	76.10	72.63	69.60
22.5	78.07	74.39	70.81	68.12	66.56	64.86	63.01	60.91	58.80	57.03
25.0	59.84	58.88	57.77	56.70	55.59	54.06	52.34	50.51	48.46	46.60
27.5	48.59	47.74	46.75	45.56	44.28	43.07	41.73	39.68	37.90	36.03
30.0	38.09	37.02	35.94	34.75	33.36	32.14	30.43	28.64	26.94	25.29
32.5	28.29	27.02	25.63	24.22	22.73	22.46	22.07	21.66	20.96	20.31
35.0	19.28	19.17	19.12	19.13	19.17	19.00	18.61	18.35	17.82	17.12
37.5	15.72	15.75	15.79	15.70	15.61	15.52	15.25	14.84	14.40	13.82
40.0	12.71	12.62	12.54	12.43	12.25	12.09	11.81	11.37	11.02	10.48
42.5	9.82	9.74	9.52	9.35	9.03	8.73	8.42	7.99	7.60	7.12
45.0	7.15	7.01	6.72	6.36	5.96	5.51	5.10	4.60	4.15	3.92
47.5	4.81	4.48	4.08	3.67	3.40	3.11	2.86	2.66	2.64	2.62
50.0	2.89	2.66	2.42	2.44	2.48	2.46	2.45	2.44	2.41	2.39
52.5	2.15	2.15	2.17	2.21	2.25	2.25	2.22	2.22	2.18	2.16
55.0	1.94	1.99	1.98	2.00	2.03	2.02	2.00	1.99	1.96	1.94
57.5	1.77	1.81	1.80	1.80	1.82	1.81	1.78	1.76	1.74	1.71
60.0	1.62	1.63	1.64	1.63	1.61	1.59	1.56	1.54	1.51	1.48

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

62.5	1.46	1.47	1.47	1.46	1.42	1.39	1.37	1.35	1.33	1.31
65.0	1.33	1.31	1.30	1.29	1.26	1.24	1.21	1.19	1.18	1.16
67.5	1.18	1.14	1.13	1.11	1.09	1.07	1.05	1.03	1.01	1.00
70.0	1.00	0.98	0.96	0.95	0.92	0.91	0.89	0.87	0.86	0.85
72.5	0.83	0.81	0.79	0.79	0.78	0.78	0.78	0.77	0.76	0.76
75.0	0.71	0.71	0.71	0.70	0.69	0.69	0.69	0.68	0.68	0.67
77.5	0.62	0.63	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.59
80.0	0.54	0.54	0.53	0.54	0.53	0.52	0.52	0.51	0.51	0.51
82.5	0.45	0.45	0.44	0.44	0.44	0.43	0.44	0.44	0.43	0.43
85.0	0.36	0.37	0.35	0.36	0.36	0.35	0.35	0.35	0.35	0.34
87.5	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
90.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

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	233.35	233.35	233.35	233.35	233.35
2.5	220.65	219.65	218.68	217.74	216.82
5.0	206.04	203.93	201.90	199.95	198.08
7.5	183.50	180.77	177.92	175.23	172.69
10.0	157.23	154.06	151.01	147.94	145.09
12.5	135.58	132.29	128.93	126.22	123.29
15.0	113.50	110.04	107.12	104.27	101.48
17.5	90.52	87.23	84.50	82.07	79.68
20.0	66.58	63.78	61.44	59.65	57.88
22.5	55.10	53.15	51.29	49.83	48.28
25.0	44.94	43.20	41.46	39.96	38.69
27.5	34.47	33.03	31.54	30.17	29.10
30.0	23.80	22.66	21.49	20.28	19.50
32.5	19.55	18.98	18.28	17.39	16.75
35.0	16.42	15.85	15.29	14.54	13.99
37.5	13.22	12.70	12.24	11.67	11.24
40.0	10.00	9.52	9.16	8.77	8.48
42.5	6.79	6.32	6.06	5.84	5.73
45.0	3.72	3.55	3.44	3.43	3.47
47.5	2.59	2.58	2.57	2.63	2.71
50.0	2.37	2.35	2.34	2.38	2.46
52.5	2.15	2.13	2.11	2.15	2.20
55.0	1.92	1.90	1.89	1.91	1.95
57.5	1.69	1.68	1.66	1.67	1.69
60.0	1.46	1.45	1.44	1.43	1.43
62.5	1.30	1.29	1.29	1.28	1.28
65.0	1.15	1.14	1.13	1.13	1.13
67.5	0.99	0.98	0.97	0.97	0.97
70.0	0.84	0.83	0.82	0.82	0.82
72.5	0.75	0.75	0.74	0.74	0.74
75.0	0.67	0.66	0.66	0.66	0.66
77.5	0.58	0.58	0.58	0.58	0.58
80.0	0.50	0.50	0.50	0.50	0.50
82.5	0.43	0.42	0.42	0.42	0.42
85.0	0.34	0.34	0.34	0.34	0.34
87.5	0.27	0.27	0.27	0.27	0.27
90.0	0.18	0.18	0.18	0.18	0.18

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	55.81	55.70	55.50
0-30	81.08	81.00	80.70
0-40	92.74	92.60	92.30
0-60	98.68	98.60	98.20
0-80	100.24	100.10	99.70
0-90	100.53	100.40	100.00
10-90	81.27	81.20	80.80
20-40	36.94	36.90	36.70
20-50	41.24	41.20	41.00
40-70	6.91	6.90	6.90
60-80	1.57	1.60	1.60
70-80	0.59	0.60	0.60
80-90	0.29	0.30	0.30
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	100.53	100.40	100.00

Total Luminaire Efficiency = 100.40%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	19.26
10-20	36.55
20-30	25.28
30-40	11.66
40-50	4.30
50-60	1.64
60-70	0.98
70-80	0.59
80-90	0.29
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	102	102	102	100
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	83	88	84	82	86	83	81	79
5	96	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71
7	88	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62
10	78	70	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59

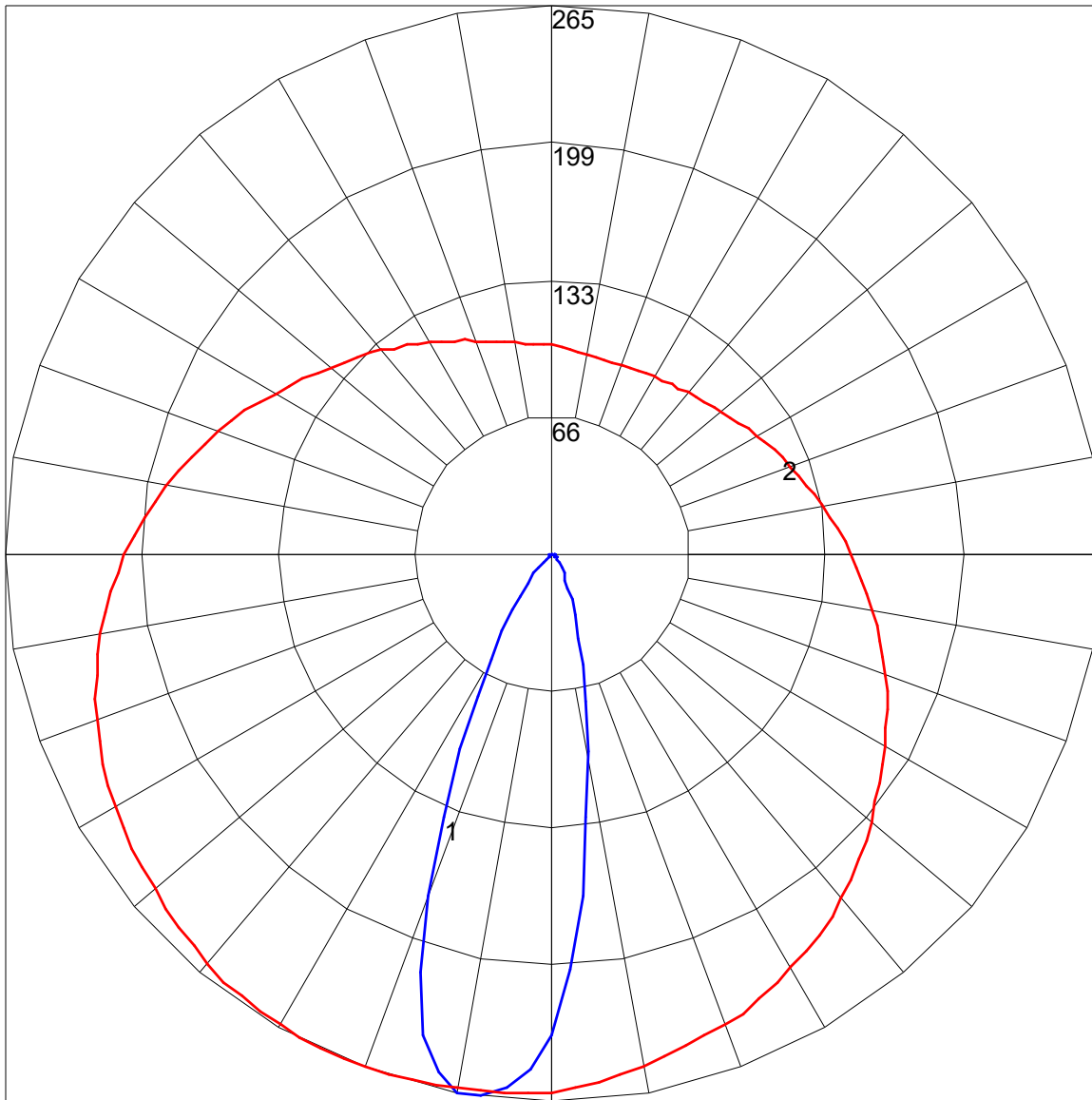
IES INDOOR REPORT
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UGR TABLE - CORRECTED

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	1.8	2.9	2.1	3.2	3.5	0.0	0.0	0.0	0.0	0.0
	3H	3.2	4.2	3.6	4.6	4.9	0.0	0.0	0.0	0.0	0.0
	4H	3.9	4.9	4.3	5.2	5.6	0.0	0.0	0.0	0.0	0.0
	6H	4.7	5.5	5.1	5.9	6.3	0.0	0.0	0.0	0.1	0.5
	8H	5.1	5.9	5.5	6.3	6.7	0.0	0.4	0.0	0.8	1.2
	12H	5.5	6.3	5.9	6.6	7.1	0.4	1.2	0.8	1.6	2.0
4H	2H	2.0	2.9	2.4	3.3	3.7	0.0	0.0	0.0	0.0	0.0
	3H	3.7	4.5	4.2	4.9	5.3	0.0	0.0	0.0	0.1	0.5
	4H	4.6	5.4	5.1	5.8	6.2	0.1	0.8	0.5	1.2	1.7
	6H	5.6	6.2	6.1	6.7	7.2	1.4	2.0	1.8	2.4	2.9
	8H	6.1	6.7	6.6	7.1	7.6	2.1	2.7	2.6	3.1	3.6
	12H	6.7	7.2	7.1	7.6	8.1	3.0	3.5	3.5	4.0	4.5
8H	4H	4.9	5.5	5.4	5.9	6.4	1.3	1.8	1.7	2.3	2.7
	6H	6.1	6.6	6.6	7.1	7.5	2.8	3.2	3.3	3.7	4.2
	8H	6.8	7.2	7.3	7.7	8.2	3.7	4.1	4.2	4.6	5.1
	12H	7.5	7.9	8.0	8.4	9.0	4.8	5.2	5.3	5.7	6.2
12H	4H	4.9	5.4	5.4	5.9	6.4	1.5	2.0	2.0	2.5	2.9
	6H	6.2	6.6	6.7	7.1	7.6	3.2	3.6	3.7	4.0	4.6
	8H	7.0	7.3	7.5	7.8	8.4	4.2	4.6	4.7	5.1	5.6

Maximum UGR = 9.0

POLAR GRAPH



Maximum Candela = 265.28 Located At Horizontal Angle = 247.5, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (247.5 - 67.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)