



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-A3-200W-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] HZX-EX-A3-200W-D120

[TESTLAB] Dongguan New Testing Centre Co., Ltd

[TESTDATE] 28 August 2020

[ISSUEDATE] 2020-08-28 12:03:16

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] BELUCE CANADA INC.

[LUMINAIRE] HZX-EX-A3-200W-D120

[LUMCAT] HZX-EX-A3-200W-D120

[LAMP] 24,638 LUMENS

[_SEARCH_SOURCETYPE] LED

[BALLAST] 220-240Vac 50/60Hz

[OTHER]

[OTHER] Gamma(deg) Fz(lm) Ft(lm) %Lum %Lamp

[OTHER] 0- 10 883.34 883.34 3.59 3.59

[OTHER] 10- 20 2548.37 3431.72 13.93 13.93

[OTHER] 20- 30 3887.61 7319.33 29.71 29.71

[OTHER] 30- 40 4717.21 12036.53 48.85 48.85

[OTHER] 40- 50 4717.58 16754.11 68.00 68.00

[OTHER] 50- 60 4021.92 20776.03 84.32 84.32

[OTHER] 60- 70 2664.46 23440.49 95.14 95.14

[OTHER] 70- 80 1058.54 24499.02 99.43 99.43

[OTHER] 80- 90 115.28 24614.30 99.90 99.90

[OTHER] 90-100 1.40 24615.70 99.91 99.91

[OTHER] 100-110 2.05 24617.76 99.92 99.92

[OTHER] 110-120 2.50 24620.26 99.93 99.93

[OTHER] 120-130 3.32 24623.58 99.94 99.94

[OTHER] 130-140 3.99 24627.57 99.96 99.96

[OTHER] 140-150 4.02 24631.59 99.97 99.97

[OTHER] 150-160 3.50 24635.10 99.99 99.99

[OTHER] 160-170 2.37 24637.47 100.00 100.00

[OTHER] 170-180 0.81 24638.28 100.00 100.00

[OTHER]

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CHARACTERISTICS

Lumens Per Lamp	24638 (1 lamp)
Total Lamp Lumens	24638
Luminaire Lumens	24638
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	196.409
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 m
Luminous Width (90-270)	0.17 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	157426	161780	152067
55	142798	133989	144709
65	117447	111331	111336
75	68978	62105	64932
85	14557	14163	13756

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59
1	9293.94	9294.22	9292.88	9294.91	9293.93	9295.26	9295.93	9294.95	9296.29	9298.27
2	9290.26	9287.88	9289.51	9291.88	9290.92	9293.92	9296.60	9295.27	9297.33	9298.33
3	9281.17	9283.77	9285.12	9289.82	9289.80	9294.89	9297.30	9296.27	9296.99	9297.99
4	9273.36	9275.26	9279.08	9283.82	9288.46	9293.59	9296.31	9295.30	9296.99	9296.98
5	9263.80	9265.15	9269.64	9279.38	9282.39	9289.88	9294.24	9292.62	9294.31	9291.51
6	9252.05	9256.34	9260.67	9269.74	9274.92	9282.72	9287.89	9287.18	9288.46	9284.70
7	9235.93	9243.37	9248.96	9256.82	9262.25	9270.36	9275.96	9275.45	9278.23	9276.89
8	9223.44	9228.53	9233.76	9242.55	9249.77	9253.10	9260.08	9259.72	9264.32	9263.07
9	9203.70	9208.56	9216.09	9224.47	9229.88	9233.98	9240.64	9240.77	9246.42	9247.35
10	9180.78	9187.05	9196.53	9203.66	9207.65	9211.33	9217.90	9219.03	9227.18	9229.28
11	9157.63	9163.64	9172.66	9179.07	9181.25	9186.62	9192.90	9193.37	9204.67	9207.88
12	9111.97	9127.27	9146.29	9151.41	9152.80	9156.46	9164.60	9166.90	9178.80	9181.84
13	9034.38	9060.91	9113.92	9121.51	9122.22	9125.91	9133.90	9140.29	9150.78	9153.58
14	8941.26	8970.28	9057.11	9087.77	9089.79	9095.28	9101.21	9106.59	9116.22	9122.52
15	8849.38	8878.02	8976.17	9053.15	9053.68	9060.71	9066.85	9071.09	9083.41	9088.70
16	8776.15	8796.40	8886.70	9009.47	9015.43	9022.02	9029.45	9035.70	9047.53	9051.55
17	8729.51	8741.37	8795.22	8945.52	8974.32	8984.34	8990.20	8995.16	9008.46	9012.46
18	8682.45	8696.71	8721.21	8862.59	8931.42	8940.50	8949.66	8955.66	8965.50	8972.09
19	8634.06	8649.94	8666.07	8774.04	8885.61	8894.76	8904.78	8909.44	8920.56	8925.88
20	8582.03	8601.64	8614.33	8681.40	8836.09	8848.40	8860.85	8864.80	8875.52	8874.10
21	8530.29	8551.03	8561.63	8593.38	8784.40	8798.63	8809.42	8813.91	8823.21	8818.39
22	8472.22	8496.84	8506.01	8517.83	8727.05	8747.20	8758.47	8765.31	8770.76	8755.98
23	8408.32	8433.59	8446.47	8456.87	8656.72	8693.48	8700.99	8708.40	8715.20	8685.14
24	8334.41	8365.60	8382.44	8394.47	8578.16	8634.82	8640.77	8653.43	8658.90	8606.90
25	8256.27	8284.43	8314.20	8332.17	8485.07	8570.87	8576.42	8592.25	8596.74	8523.93
26	8165.51	8206.72	8239.59	8266.41	8389.34	8502.28	8507.02	8523.88	8533.23	8440.72
27	8052.99	8107.29	8159.84	8199.10	8288.53	8429.53	8436.55	8452.90	8466.19	8355.25
28	7931.49	7990.24	8075.04	8128.85	8187.58	8351.45	8363.46	8377.80	8390.01	8264.90
29	7824.29	7871.46	7984.68	8057.86	8091.12	8275.65	8289.38	8301.60	8307.97	8172.29
30	7737.19	7763.21	7874.11	7981.79	7998.86	8193.92	8209.64	8220.06	8216.58	8080.05
31	7657.57	7676.05	7752.38	7896.72	7911.61	8112.13	8129.41	8139.78	8122.62	7990.78
32	7569.49	7595.41	7628.71	7801.48	7824.86	8026.95	8043.90	8055.69	8022.81	7902.05
33	7470.96	7501.39	7517.19	7697.86	7736.35	7938.57	7955.03	7969.10	7921.78	7811.32
34	7369.50	7397.42	7427.79	7594.21	7647.20	7844.91	7861.10	7879.29	7814.62	7723.50
35	7270.01	7290.91	7335.04	7477.28	7553.34	7754.28	7766.96	7785.91	7706.55	7629.24
36	7174.09	7189.36	7235.85	7346.88	7458.22	7656.70	7669.34	7690.39	7597.70	7532.72
37	7072.24	7090.74	7124.05	7210.45	7355.52	7555.96	7567.61	7586.28	7482.71	7431.82
38	6934.13	6988.87	7009.43	7079.91	7251.42	7449.94	7464.19	7481.21	7367.27	7322.77
39	6774.26	6846.74	6902.13	6957.57	7140.51	7338.07	7342.51	7368.41	7245.42	7203.10
40	6627.89	6685.69	6795.47	6848.98	7027.20	7210.77	7129.41	7248.44	7127.50	7074.30
41	6516.73	6541.31	6686.24	6735.29	6912.15	6993.12	6770.14	7026.05	7007.35	6942.51
42	6405.92	6429.50	6545.07	6615.44	6791.16	6633.84	6366.82	6673.30	6888.79	6807.80
43	6292.77	6314.93	6380.45	6488.62	6665.79	6221.16	6091.46	6268.67	6762.57	6669.77
44	6176.07	6197.46	6222.86	6355.70	6489.44	5927.71	5967.93	6000.30	6572.25	6523.53
45	6058.22	6077.85	6093.26	6225.77	6190.74	5780.99	5852.00	5871.88	6263.45	6385.31
46	5933.63	5949.65	5960.60	6096.15	5785.53	5648.00	5729.05	5751.07	5872.55	6249.44
47	5776.85	5817.04	5829.94	5963.01	5439.12	5515.18	5606.71	5631.20	5573.92	6116.22
48	5590.83	5650.42	5695.01	5808.27	5237.60	5376.81	5478.05	5505.47	5413.53	5985.47
49	5442.58	5467.31	5558.19	5630.15	5095.09	5236.29	5350.54	5378.63	5284.30	5848.71
50	5308.52	5310.24	5421.25	5429.64	4963.98	5092.60	5214.51	5240.52	5145.55	5659.81
51	5165.72	5169.13	5262.66	5180.02	4834.82	4956.51	5080.55	5105.64	5002.20	5366.53
52	5004.42	5024.13	5071.42	4844.64	4702.34	4815.99	4938.54	4959.98	4845.14	4980.16
53	4841.40	4866.01	4894.45	4526.07	4562.55	4680.04	4805.84	4813.83	4691.63	4661.55

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CANDELA TABULATION - (Cont.)

54	4641.64	4712.37	4746.10	4323.04	4411.36	4541.08	4661.37	4660.91	4533.13	4461.40
55	4457.54	4512.96	4593.18	4182.59	4264.53	4398.00	4517.21	4506.85	4381.20	4307.11
56	4286.48	4324.48	4423.84	4040.91	4116.89	4245.35	4367.46	4346.27	4224.53	4157.35
57	4124.31	4151.63	4252.81	3886.10	3972.01	4105.06	4219.39	4189.93	4079.39	4013.00
58	3966.76	3981.45	4054.46	3703.18	3821.49	3954.39	4070.14	4035.60	3932.09	3862.78
59	3778.92	3823.46	3867.24	3539.39	3650.23	3805.28	3913.69	3876.23	3783.40	3709.79
60	3568.31	3622.93	3684.47	3392.48	3477.70	3649.48	3755.97	3712.45	3631.14	3545.51
61	3398.50	3418.52	3447.88	3236.51	3317.83	3488.51	3586.93	3542.17	3469.27	3381.92
62	3239.55	3254.48	3154.24	3075.69	3166.09	3321.91	3420.60	3380.49	3301.51	3217.70
63	3051.35	3089.21	2832.12	2913.19	3009.06	3135.15	2980.82	3198.42	3119.83	3062.59
64	2857.47	2883.89	2633.05	2730.00	2847.20	2706.24	2713.95	2768.30	2945.98	2905.58
65	2701.30	2699.54	2487.34	2560.63	2690.14	2475.48	2560.76	2534.04	2769.71	2734.08
66	2523.06	2539.29	2334.27	2405.71	2449.86	2326.14	2413.23	2389.49	2550.34	2557.04
67	2326.54	2343.51	2133.19	2255.76	2082.68	2171.89	2263.53	2237.07	2170.62	2390.93
68	2162.05	2159.41	1989.64	2064.75	1932.15	2021.99	2111.45	2098.39	2026.72	2220.07
69	1972.53	1998.01	1838.48	1903.01	1791.75	1866.04	1954.80	1938.89	1875.90	2045.69
70	1807.13	1810.20	1667.90	1747.68	1644.42	1721.86	1819.97	1782.01	1727.07	1867.98
71	1619.78	1657.26	1530.94	1427.74	1499.90	1584.69	1564.76	1642.61	1584.63	1545.42
72	1462.69	1471.14	1370.79	1281.99	1348.32	1259.90	1302.50	1297.98	1444.87	1385.63
73	1289.85	1308.39	1239.53	1150.59	1221.08	1126.67	1182.85	1157.00	1300.87	1241.96
74	1121.58	1153.12	1082.50	1016.46	970.49	1014.47	1061.95	1041.71	1019.33	1115.38
75	971.60	986.95	926.21	874.80	849.26	872.47	914.62	897.25	904.53	964.13
76	829.50	833.68	769.92	733.01	732.23	729.49	766.97	752.26	789.93	812.84
77	687.50	680.79	613.64	591.22	621.91	586.50	619.32	607.27	675.33	661.56
78	555.29	527.90	512.89	495.27	468.61	500.01	467.98	516.52	500.94	551.45
79	439.83	421.86	420.15	411.10	390.93	367.80	384.20	381.12	424.69	459.28
80	338.65	331.06	330.71	300.35	285.55	291.52	271.32	312.94	309.11	347.34
81	250.69	252.23	237.08	236.96	220.58	213.19	220.54	221.97	248.82	266.71
82	182.95	184.11	179.44	169.50	162.15	149.87	151.77	155.55	176.38	189.94
83	126.84	131.15	126.88	119.87	112.08	105.44	104.52	108.03	123.96	139.61
84	97.74	101.12	98.51	93.19	88.60	84.70	84.86	87.82	97.85	98.23
85	69.05	71.39	70.73	67.18	65.23	64.51	65.25	67.66	72.59	75.94
86	40.37	41.66	42.95	41.17	41.87	44.33	45.64	47.50	47.33	53.73
87	23.98	25.30	25.03	25.08	26.06	28.45	30.96	31.78	30.66	31.52
88	16.68	15.95	13.38	11.31	9.92	8.58	6.99	11.36	14.40	15.06
89	11.28	10.78	9.03	7.69	5.18	4.54	3.44	5.92	9.77	10.07
90	5.92	5.68	4.83	4.11	0.54	0.54	0.53	0.56	5.17	5.32
91	0.57	0.58	0.63	0.53	0.48	0.47	0.46	0.46	0.58	0.56
92	0.57	0.57	0.56	0.54	0.52	0.51	0.50	0.50	0.49	0.50
93	0.61	0.61	0.60	0.58	0.57	0.55	0.55	0.54	0.53	0.54
94	0.66	0.66	0.65	0.64	0.61	0.60	0.59	0.58	0.58	0.58
95	0.71	0.71	0.70	0.91	0.71	0.65	0.64	0.63	0.62	0.72
96	0.76	0.76	0.86	1.04	1.06	1.06	0.87	0.99	0.93	0.85
97	0.80	0.82	0.91	1.06	1.21	1.25	1.22	1.14	1.03	0.91
98	0.85	0.87	0.95	1.09	1.23	1.28	1.24	1.19	1.07	0.96
99	0.90	0.91	0.97	1.10	1.24	1.28	1.25	1.21	1.10	1.00
100	0.95	0.96	0.99	1.12	1.24	1.29	1.27	1.22	1.11	1.03
101	1.00	1.01	1.02	1.15	1.24	1.29	1.28	1.24	1.14	1.07
102	1.05	1.06	1.06	1.17	1.25	1.29	1.29	1.26	1.17	1.11
103	1.11	1.11	1.10	1.19	1.26	1.30	1.30	1.27	1.20	1.15
104	1.16	1.16	1.14	1.21	1.28	1.32	1.31	1.28	1.24	1.17
105	1.21	1.21	1.19	1.23	1.31	1.34	1.32	1.31	1.27	1.20
106	1.26	1.26	1.23	1.27	1.33	1.36	1.35	1.35	1.30	1.25
107	1.32	1.31	1.29	1.31	1.36	1.38	1.40	1.38	1.33	1.29
108	1.38	1.38	1.34	1.36	1.39	1.42	1.43	1.41	1.38	1.35
109	1.45	1.44	1.40	1.42	1.43	1.45	1.46	1.45	1.43	1.42

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CANDELA TABULATION - (Cont.)

110	1.52	1.51	1.47	1.47	1.49	1.50	1.50	1.49	1.48	1.49
111	1.60	1.58	1.54	1.53	1.55	1.55	1.56	1.55	1.55	1.56
112	1.69	1.65	1.61	1.60	1.60	1.62	1.62	1.62	1.63	1.64
113	1.78	1.71	1.71	1.68	1.68	1.71	1.70	1.71	1.71	1.73
114	1.88	1.79	1.82	1.77	1.79	1.82	1.81	1.83	1.81	1.83
115	1.99	1.89	1.92	1.89	1.90	1.94	1.93	1.95	1.93	1.96
116	2.10	2.00	2.04	2.01	2.01	2.05	2.05	2.07	2.04	2.08
117	2.19	2.12	2.14	2.14	2.13	2.16	2.16	2.18	2.14	2.21
118	2.29	2.24	2.25	2.26	2.25	2.27	2.26	2.29	2.26	2.35
119	2.42	2.36	2.36	2.38	2.36	2.37	2.37	2.39	2.37	2.48
120	2.54	2.48	2.46	2.49	2.48	2.46	2.48	2.49	2.47	2.59
121	2.66	2.59	2.56	2.59	2.60	2.53	2.56	2.58	2.59	2.70
122	2.79	2.71	2.66	2.69	2.72	2.61	2.66	2.66	2.71	2.81
123	2.92	2.83	2.77	2.81	2.84	2.69	2.74	2.76	2.83	2.93
124	3.07	2.97	2.86	2.92	2.97	2.79	2.84	2.87	2.96	3.04
125	3.21	3.08	2.96	3.04	3.09	2.92	2.94	2.99	3.08	3.17
126	3.32	3.18	3.06	3.14	3.21	3.05	3.07	3.12	3.20	3.27
127	3.40	3.28	3.20	3.24	3.35	3.20	3.19	3.25	3.33	3.37
128	3.50	3.40	3.34	3.34	3.50	3.34	3.32	3.37	3.47	3.46
129	3.62	3.53	3.48	3.43	3.64	3.50	3.46	3.50	3.61	3.54
130	3.75	3.65	3.63	3.53	3.76	3.67	3.60	3.65	3.74	3.64
131	3.88	3.78	3.77	3.62	3.87	3.85	3.76	3.80	3.84	3.74
132	4.01	3.92	3.89	3.74	3.95	4.00	3.91	3.95	3.93	3.84
133	4.15	4.06	4.01	3.86	4.03	4.16	4.06	4.10	4.02	3.96
134	4.27	4.17	4.12	3.97	4.10	4.28	4.20	4.20	4.10	4.07
135	4.38	4.27	4.23	4.08	4.19	4.37	4.31	4.28	4.20	4.17
136	4.47	4.38	4.35	4.21	4.29	4.45	4.39	4.36	4.29	4.28
137	4.57	4.51	4.44	4.36	4.41	4.55	4.50	4.44	4.38	4.40
138	4.67	4.63	4.53	4.51	4.55	4.69	4.61	4.53	4.48	4.52
139	4.78	4.74	4.62	4.65	4.67	4.81	4.72	4.63	4.58	4.64
140	4.85	4.85	4.71	4.74	4.77	4.92	4.80	4.73	4.68	4.74
141	4.92	4.95	4.83	4.80	4.86	5.00	4.92	4.83	4.77	4.83
142	4.98	5.05	4.93	4.86	4.98	5.09	5.01	4.93	4.89	4.90
143	5.04	5.15	5.02	4.92	5.08	5.16	5.09	5.02	5.01	4.96
144	5.11	5.24	5.10	4.98	5.18	5.22	5.14	5.11	5.11	5.03
145	5.19	5.33	5.19	5.07	5.25	5.26	5.22	5.18	5.20	5.10
146	5.26	5.41	5.26	5.15	5.30	5.30	5.27	5.27	5.27	5.18
147	5.32	5.46	5.32	5.24	5.33	5.34	5.32	5.34	5.31	5.26
148	5.36	5.49	5.38	5.32	5.36	5.40	5.35	5.39	5.34	5.34
149	5.41	5.55	5.45	5.40	5.37	5.46	5.38	5.44	5.39	5.42
150	5.49	5.63	5.54	5.47	5.39	5.50	5.40	5.48	5.47	5.52
151	5.60	5.74	5.68	5.56	5.43	5.58	5.45	5.55	5.56	5.64
152	5.71	5.84	5.84	5.65	5.49	5.66	5.52	5.66	5.67	5.76
153	5.78	5.94	5.98	5.74	5.59	5.74	5.59	5.74	5.77	5.85
154	5.86	6.03	6.11	5.79	5.70	5.81	5.64	5.82	5.85	5.93
155	5.92	6.12	6.24	5.83	5.80	5.89	5.68	5.89	5.94	6.01
156	6.03	6.22	6.34	5.89	5.86	5.95	5.69	5.97	6.02	6.08
157	6.15	6.33	6.41	5.96	5.90	5.99	5.70	6.05	6.12	6.19
158	6.28	6.44	6.48	6.04	5.94	6.02	5.74	6.15	6.21	6.31
159	6.39	6.51	6.51	6.14	5.99	6.04	5.78	6.23	6.30	6.44
160	6.44	6.57	6.53	6.26	6.04	6.05	5.83	6.31	6.37	6.55
161	6.48	6.62	6.57	6.38	6.11	6.09	5.89	6.37	6.47	6.66
162	6.50	6.65	6.62	6.49	6.18	6.12	5.94	6.41	6.56	6.72
163	6.56	6.75	6.71	6.61	6.28	6.22	6.07	6.51	6.68	6.81
164	6.65	6.85	6.82	6.74	6.41	6.38	6.24	6.63	6.82	6.89
165	6.75	6.97	6.93	6.86	6.55	6.55	6.42	6.75	6.97	6.97

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CANDELA TABULATION - (Cont.)

166	6.87	7.10	7.06	7.01	6.71	6.74	6.61	6.90	7.11	7.08
167	6.98	7.21	7.17	7.13	6.85	6.85	6.73	6.98	7.21	7.15
168	7.08	7.31	7.29	7.22	6.91	6.91	6.82	7.05	7.27	7.19
169	7.17	7.36	7.37	7.27	6.89	6.94	6.87	7.04	7.29	7.19
170	7.19	7.35	7.37	7.29	6.82	6.94	6.91	6.95	7.20	7.16
171	7.17	7.34	7.34	7.29	6.82	6.98	6.89	6.84	7.13	7.13
172	7.24	7.41	7.40	7.39	6.95	7.07	6.91	6.89	7.20	7.19
173	7.41	7.59	7.56	7.57	7.15	7.23	6.98	7.03	7.33	7.34
174	7.72	7.89	7.88	7.88	7.48	7.46	7.17	7.25	7.54	7.61
175	8.05	8.19	8.20	8.16	7.77	7.65	7.41	7.46	7.78	7.84
176	8.22	8.38	8.37	8.36	7.98	7.89	7.64	7.62	7.96	7.98
177	8.32	8.57	8.49	8.53	8.17	8.11	7.85	7.77	8.09	8.10
178	8.41	8.58	8.57	8.63	8.30	8.24	7.94	7.86	8.13	8.17
179	8.48	8.63	8.66	8.72	8.46	8.38	8.18	7.97	8.13	8.25
180	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59	9295.59
1	9297.62	9298.01	9295.91	9298.57	9296.14	9296.61	9295.54	9294.91	9294.53	9293.53
2	9296.63	9296.35	9294.20	9295.53	9292.09	9296.08	9293.76	9291.84	9292.83	9290.47
3	9294.91	9291.85	9293.17	9291.81	9289.42	9290.02	9289.74	9289.75	9290.03	9289.05
4	9290.13	9285.21	9286.74	9284.90	9285.02	9283.67	9285.29	9285.95	9284.24	9280.74
5	9286.76	9280.23	9280.13	9278.07	9279.30	9279.24	9279.77	9278.17	9277.24	9273.08
6	9279.65	9272.70	9271.83	9270.20	9266.34	9269.27	9268.23	9266.46	9266.43	9261.30
7	9270.43	9261.81	9264.23	9260.73	9258.15	9257.71	9254.39	9252.36	9251.46	9245.44
8	9256.59	9248.62	9250.86	9246.55	9245.93	9243.47	9239.30	9236.20	9235.97	9229.42
9	9240.28	9231.93	9234.99	9231.26	9231.65	9227.09	9222.33	9220.13	9218.26	9211.30
10	9221.34	9213.27	9216.24	9213.32	9213.19	9206.92	9199.40	9197.16	9192.19	9187.68
11	9199.12	9192.99	9195.63	9194.07	9191.86	9183.56	9172.02	9168.48	9165.97	9161.32
12	9176.23	9167.92	9169.86	9168.90	9163.53	9156.65	9142.97	9136.66	9135.67	9130.75
13	9152.18	9142.52	9143.25	9139.35	9134.96	9128.38	9115.14	9104.08	9101.97	9099.03
14	9123.23	9115.40	9110.63	9108.81	9103.52	9096.54	9083.78	9072.83	9066.67	9067.46
15	9089.71	9080.05	9072.42	9076.57	9071.48	9061.03	9051.74	9035.04	9030.92	9030.79
16	9055.44	9034.03	9024.00	9029.87	9036.20	9024.38	9013.53	8996.79	8990.99	8990.74
17	9012.11	8977.14	8965.53	8977.09	8990.19	8986.41	8973.19	8956.95	8946.36	8949.61
18	8959.44	8912.13	8897.73	8909.08	8941.35	8943.83	8933.59	8913.18	8900.64	8902.43
19	8897.23	8840.62	8823.22	8838.95	8881.90	8898.41	8884.84	8864.06	8851.09	8851.17
20	8825.70	8766.80	8745.57	8762.28	8815.33	8845.89	8835.93	8817.21	8801.11	8798.31
21	8746.74	8690.03	8666.06	8678.23	8739.55	8794.04	8785.24	8765.25	8747.67	8743.35
22	8670.43	8610.25	8587.81	8599.37	8658.90	8732.99	8727.76	8704.73	8696.42	8688.58
23	8587.52	8535.97	8519.50	8521.09	8581.99	8665.38	8671.29	8645.45	8638.15	8633.63
24	8503.77	8464.61	8448.37	8454.39	8500.82	8593.62	8606.92	8584.47	8577.92	8569.18
25	8419.58	8398.94	8386.06	8380.94	8413.77	8506.63	8542.49	8520.17	8510.08	8507.24
26	8341.99	8334.96	8319.63	8318.39	8331.19	8421.25	8473.44	8452.47	8446.15	8437.22
27	8264.21	8268.04	8249.31	8257.87	8247.88	8336.86	8402.13	8383.30	8374.83	8371.26
28	8192.81	8198.31	8177.10	8181.87	8172.04	8237.61	8327.43	8314.05	8304.28	8292.23
29	8120.56	8122.18	8098.88	8106.23	8099.22	8139.46	8253.42	8237.55	8226.09	8218.51
30	8044.06	8035.16	8004.50	8025.33	8014.70	8047.55	8168.70	8162.65	8147.38	8134.90
31	7966.82	7937.34	7904.39	7934.19	7940.48	7954.87	8081.39	8078.02	8063.65	8055.52
32	7883.05	7828.85	7792.62	7830.81	7850.97	7855.55	7996.41	7999.63	7984.69	7975.12
33	7787.37	7713.46	7675.15	7712.89	7766.44	7759.11	7902.20	7912.54	7892.85	7889.40
34	7685.15	7599.06	7556.19	7604.55	7659.50	7673.86	7801.03	7821.69	7803.60	7794.07
35	7570.79	7480.64	7447.38	7484.68	7552.54	7575.57	7692.93	7726.64	7703.14	7701.86
36	7450.23	7367.52	7336.94	7360.66	7432.58	7478.75	7586.75	7629.18	7601.91	7602.51

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CANDELA TABULATION - (Cont.)

37	7324.37	7263.83	7239.53	7251.54	7308.56	7380.88	7475.64	7523.56	7496.74	7502.01
38	7198.08	7167.39	7146.82	7145.11	7185.04	7278.46	7354.58	7425.61	7382.55	7399.87
39	7074.13	7064.74	7042.24	7037.02	7056.10	7174.41	7232.05	7310.14	7189.21	7282.33
40	6960.54	6958.60	6929.70	6940.66	6932.33	7059.64	7099.33	7116.83	6831.18	7073.59
41	6853.79	6840.67	6797.29	6835.27	6819.11	6935.73	6961.23	6766.33	6447.44	6714.21
42	6745.20	6702.77	6657.63	6700.64	6701.45	6811.33	6821.81	6386.56	6196.45	6322.42
43	6631.06	6550.97	6511.85	6563.46	6594.45	6676.71	6672.65	6129.24	6042.96	6067.83
44	6503.99	6398.67	6362.60	6411.93	6477.76	6526.78	6376.82	5961.84	5929.26	5894.78
45	6359.63	6248.26	6214.97	6264.55	6353.00	6382.07	6002.71	5843.22	5814.93	5770.20
46	6197.89	6102.43	6085.58	6114.35	6209.84	6237.59	5712.60	5727.98	5694.63	5638.10
47	6032.35	5970.16	5957.92	5970.46	6051.05	6094.04	5516.75	5603.12	5572.28	5503.23
48	5872.65	5845.99	5833.63	5840.01	5883.32	5954.74	5382.83	5481.86	5450.39	5366.69
49	5718.09	5718.91	5686.41	5712.87	5720.07	5813.41	5263.56	5355.35	5330.99	5227.44
50	5572.77	5577.86	5535.55	5575.74	5562.70	5563.02	5133.15	5232.61	5206.93	5090.79
51	5432.02	5417.18	5379.78	5423.39	5418.55	5224.86	4999.82	5101.03	5082.73	4956.07
52	5293.20	5257.41	5216.20	5260.21	5287.95	4895.38	4857.41	4968.74	4950.21	4825.04
53	5138.11	5090.64	5060.48	5095.84	5149.90	4659.13	4717.07	4830.74	4815.56	4693.25
54	4965.63	4931.61	4911.96	4929.45	4993.90	4478.91	4566.94	4692.35	4673.20	4559.75
55	4796.61	4780.57	4766.71	4775.15	4823.46	4315.63	4415.82	4551.89	4527.03	4417.82
56	4621.33	4624.54	4595.90	4625.59	4652.91	4157.04	4257.80	4402.55	4380.04	4274.70
57	4453.56	4441.61	4399.78	4461.81	4474.84	4013.97	4109.55	4244.04	4231.49	4125.67
58	4295.23	4240.52	4210.25	4262.49	4297.66	3873.47	3963.74	4079.61	4083.68	3974.87
59	4134.56	4057.78	4041.24	4064.74	4139.15	3734.02	3818.74	3917.20	3928.66	3822.11
60	3920.22	3885.60	3869.23	3888.12	3931.27	3587.30	3660.85	3753.40	3765.28	3669.87
61	3619.34	3703.29	3680.65	3714.54	3607.80	3425.30	3504.27	3582.78	3523.48	3503.14
62	3278.06	3509.72	3490.63	3531.10	3277.51	3265.24	3353.85	3319.17	3069.94	3215.63
63	3012.82	3306.76	3293.84	3337.36	3051.09	3106.92	3186.78	2887.72	2875.73	2820.34
64	2837.07	3113.87	3126.04	3135.35	2882.04	2950.26	3003.08	2699.95	2741.23	2655.21
65	2668.31	2938.13	2930.97	2962.66	2715.01	2794.61	2702.41	2564.63	2605.19	2519.81
66	2481.82	2727.44	2734.03	2774.11	2536.77	2631.91	2346.40	2426.11	2457.63	2377.10
67	2322.85	2544.08	2563.29	2573.02	2361.42	2441.01	2205.55	2283.96	2315.18	2230.39
68	2146.74	2373.88	2380.55	2410.63	2205.83	2266.10	2076.63	2147.50	2171.16	2083.68
69	1977.76	2177.26	2201.22	2237.04	2050.25	2032.74	1947.66	2011.04	2027.15	1936.97
70	1835.13	2007.61	2021.89	2063.45	1894.71	1799.65	1799.36	1874.35	1882.69	1799.55
71	1663.08	1821.93	1842.96	1889.62	1741.39	1583.30	1643.70	1722.22	1607.42	1642.91
72	1510.88	1656.98	1682.90	1696.53	1570.42	1451.55	1519.16	1407.48	1388.41	1328.08
73	1352.56	1473.79	1498.71	1528.95	1427.40	1316.37	1376.73	1243.08	1246.25	1184.13
74	1211.02	1312.63	1331.40	1354.10	1260.77	1172.19	1112.58	1112.35	1126.55	1065.24
75	1053.84	1130.88	1170.55	1185.28	1121.12	1054.47	961.78	990.87	1002.94	949.73
76	899.51	962.48	1010.09	982.61	940.31	919.90	847.16	873.79	768.90	779.00
77	745.24	794.29	851.98	806.17	763.11	752.93	731.26	668.87	674.15	629.28
78	590.96	626.10	713.55	674.91	647.51	614.90	566.28	577.62	577.62	541.20
79	484.89	510.34	582.82	563.22	539.01	517.14	473.28	423.82	424.77	401.77
80	391.15	407.82	460.49	450.62	441.61	422.66	371.46	354.86	346.27	319.90
81	286.78	315.75	359.02	354.87	339.01	310.10	294.66	276.20	255.16	238.04
82	215.44	237.75	284.62	281.80	269.75	242.04	217.86	197.55	164.08	156.29
83	158.23	174.67	210.22	208.73	200.48	174.00	141.57	120.65	110.38	108.13
84	111.40	118.65	136.41	136.33	131.74	121.20	99.76	93.99	87.98	85.83
85	85.49	91.30	91.49	96.14	92.62	83.34	76.35	72.48	67.39	65.17
86	59.90	64.32	68.13	69.13	64.59	59.52	55.71	52.80	48.00	46.07
87	34.32	37.34	42.74	45.67	44.01	40.66	38.71	35.70	32.30	31.04
88	17.54	18.61	28.75	30.74	29.80	27.47	21.72	18.61	16.60	16.00
89	8.64	9.96	14.76	15.82	15.59	14.29	4.90	1.73	1.16	1.36
90	4.55	5.21	1.27	1.42	1.76	1.18	1.04	1.02	1.02	1.03
91	0.58	0.51	1.17	1.15	1.13	1.09	1.09	1.10	1.11	1.13
92	0.50	0.51	1.26	1.24	1.21	1.19	1.18	1.19	1.21	1.22

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CANDELA TABULATION - (Cont.)

93	0.55	0.55	1.36	1.34	1.31	1.28	1.28	1.29	1.31	1.32
94	0.59	0.60	1.46	1.44	1.41	1.37	1.38	1.39	1.41	1.43
95	0.64	0.64	1.56	1.54	1.51	1.48	1.48	1.50	1.52	1.53
96	0.71	0.69	1.66	1.64	1.64	1.60	1.62	1.61	1.63	1.75
97	0.80	0.74	1.77	1.77	1.95	2.10	1.86	1.92	1.92	2.03
98	0.86	0.79	1.87	1.89	2.10	2.28	2.27	2.21	2.29	2.24
99	0.90	0.84	1.97	1.98	2.18	2.42	2.38	2.42	2.42	2.38
100	0.94	0.88	2.07	2.07	2.23	2.49	2.33	2.52	2.50	2.46
101	0.98	0.93	2.16	2.16	2.27	2.56	2.57	2.60	2.57	2.53
102	1.02	0.98	2.25	2.25	2.32	2.62	2.62	2.66	2.64	2.62
103	1.06	1.03	2.35	2.35	2.39	2.65	2.69	2.73	2.71	2.70
104	1.11	1.08	2.44	2.43	2.47	2.65	2.75	2.79	2.78	2.77
105	1.16	1.14	2.50	2.49	2.52	2.65	2.79	2.85	2.84	2.82
106	1.21	1.19	2.53	2.53	2.57	2.65	2.79	2.88	2.88	2.87
107	1.28	1.25	2.56	2.57	2.61	2.66	2.78	2.90	2.91	2.89
108	1.34	1.31	2.59	2.60	2.64	2.69	2.76	2.89	2.93	2.88
109	1.41	1.38	2.62	2.64	2.67	2.73	2.76	2.88	2.92	2.87
110	1.48	1.44	2.66	2.68	2.71	2.76	2.78	2.87	2.91	2.87
111	1.56	1.52	2.71	2.72	2.74	2.80	2.81	2.87	2.91	2.88
112	1.64	1.60	2.75	2.76	2.79	2.85	2.85	2.90	2.93	2.91
113	1.72	1.68	2.80	2.81	2.83	2.90	2.90	2.93	2.96	2.95
114	1.83	1.77	2.87	2.88	2.89	2.95	2.97	2.99	3.01	3.01
115	1.96	1.86	2.96	2.96	2.96	3.01	3.04	3.06	3.08	3.08
116	2.09	1.96	3.05	3.05	3.04	3.09	3.12	3.14	3.16	3.16
117	2.21	2.05	3.14	3.15	3.16	3.19	3.22	3.25	3.25	3.25
118	2.34	2.16	3.31	3.27	3.30	3.34	3.34	3.39	3.39	3.38
119	2.45	2.27	3.41	3.39	3.43	3.50	3.47	3.53	3.52	3.51
120	2.55	2.39	3.53	3.52	3.56	3.67	3.63	3.66	3.65	3.63
121	2.66	2.51	3.66	3.65	3.68	3.82	3.79	3.78	3.79	3.75
122	2.75	2.61	3.79	3.79	3.81	3.97	3.96	3.92	3.93	3.88
123	2.86	2.73	3.93	3.93	3.94	4.14	4.14	4.09	4.08	4.05
124	2.97	2.84	4.09	4.09	4.08	4.31	4.34	4.28	4.22	4.21
125	3.08	2.97	4.26	4.26	4.24	4.49	4.52	4.49	4.40	4.39
126	3.19	3.08	4.44	4.43	4.42	4.66	4.70	4.68	4.64	4.57
127	3.30	3.21	4.59	4.59	4.60	4.82	4.89	4.87	4.86	4.76
128	3.42	3.35	4.74	4.78	4.81	4.98	5.10	5.06	5.07	4.95
129	3.55	3.48	4.90	4.97	5.02	5.16	5.31	5.25	5.27	5.15
130	3.68	3.61	5.09	5.17	5.22	5.35	5.52	5.47	5.47	5.36
131	3.79	3.75	5.29	5.35	5.43	5.55	5.70	5.68	5.68	5.56
132	3.91	3.89	5.43	5.51	5.60	5.74	5.83	5.88	5.87	5.75
133	4.01	4.01	5.58	5.68	5.79	5.94	5.99	6.07	6.05	5.89
134	4.10	4.12	5.72	5.85	5.95	6.14	6.17	6.23	6.21	6.02
135	4.17	4.23	5.86	6.00	6.10	6.34	6.35	6.36	6.32	6.13
136	4.24	4.34	6.02	6.15	6.25	6.52	6.53	6.48	6.42	6.23
137	4.33	4.44	6.16	6.30	6.39	6.69	6.72	6.64	6.54	6.35
138	4.42	4.54	6.30	6.45	6.55	6.86	6.90	6.82	6.68	6.50
139	4.51	4.63	6.47	6.60	6.70	7.02	7.07	6.99	6.84	6.66
140	4.58	4.70	6.61	6.75	6.85	7.18	7.24	7.15	7.03	6.81
141	4.66	4.77	6.75	6.91	7.00	7.32	7.41	7.33	7.21	6.96
142	4.74	4.85	6.90	7.09	7.15	7.46	7.59	7.51	7.41	7.13
143	4.81	4.93	7.05	7.26	7.31	7.59	7.77	7.67	7.62	7.31
144	4.89	5.00	7.21	7.42	7.44	7.73	7.94	7.83	7.82	7.49
145	4.95	5.07	7.40	7.58	7.57	7.87	8.08	8.00	7.99	7.69
146	5.01	5.12	7.54	7.73	7.70	8.01	8.21	8.16	8.16	7.93
147	5.07	5.17	7.67	7.85	7.83	8.16	8.33	8.31	8.31	8.11
148	5.13	5.20	7.80	7.96	7.95	8.31	8.44	8.43	8.45	8.24

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CANDELA TABULATION - (Cont.)

149	5.21	5.25	7.92	8.05	8.11	8.46	8.56	8.55	8.56	8.35
150	5.32	5.31	8.05	8.14	8.28	8.61	8.69	8.66	8.63	8.49
151	5.46	5.38	8.19	8.25	8.47	8.74	8.82	8.78	8.68	8.59
152	5.61	5.46	8.31	8.37	8.65	8.87	8.94	8.90	8.75	8.71
153	5.77	5.52	8.46	8.53	8.89	9.03	9.08	9.07	8.90	8.86
154	5.93	5.58	8.72	8.78	9.20	9.27	9.32	9.32	9.12	9.09
155	6.07	5.69	9.00	9.02	9.52	9.56	9.60	9.60	9.37	9.40
156	6.20	5.83	9.26	9.16	9.69	9.86	9.87	9.86	9.61	9.67
157	6.29	5.97	9.35	9.32	9.78	10.09	10.07	10.02	9.76	9.84
158	6.37	6.10	9.29	9.47	9.79	10.25	10.20	10.11	9.86	9.94
159	6.41	6.22	9.61	9.74	9.94	10.37	10.31	10.20	9.95	10.00
160	6.44	6.27	9.97	9.90	9.92	10.45	10.41	10.28	10.02	10.04
161	6.48	6.33	9.98	9.99	9.99	10.49	10.48	10.31	10.03	10.04
162	6.52	6.37	9.95	10.05	10.01	10.46	10.52	10.35	10.02	9.96
163	6.58	6.45	9.93	10.05	10.09	10.40	10.56	10.39	10.02	9.91
164	6.66	6.57	9.91	10.00	10.11	10.26	10.58	10.42	10.04	9.89
165	6.76	6.69	9.89	9.96	10.15	10.16	10.60	10.46	10.06	9.91
166	6.91	6.85	9.87	9.96	10.11	10.13	10.60	10.47	10.08	9.96
167	7.01	6.98	9.89	9.95	10.06	10.12	10.56	10.44	10.05	9.95
168	7.10	7.09	9.85	9.89	10.03	10.18	10.47	10.35	9.95	9.87
169	7.15	7.15	9.68	9.72	9.94	10.14	10.28	10.24	9.79	9.75
170	7.13	7.15	9.72	9.72	9.90	10.13	10.08	10.13	9.62	9.63
171	7.11	7.14	9.81	9.83	9.87	10.09	9.94	10.00	9.53	9.45
172	7.19	7.22	9.76	9.79	9.80	10.01	9.86	9.79	9.45	9.17
173	7.35	7.40	9.68	9.71	9.75	9.88	9.78	9.57	9.24	8.99
174	7.65	7.70	9.66	9.67	9.76	9.70	9.70	9.53	9.06	8.87
175	7.96	8.00	9.57	9.58	9.71	9.56	9.57	9.53	9.07	8.88
176	8.15	8.20	9.43	9.44	9.55	9.44	9.41	9.41	9.04	8.84
177	8.28	8.37	9.22	9.24	9.34	9.28	9.26	9.19	8.86	8.76
178	8.30	8.40	8.96	8.97	9.06	9.05	9.02	8.92	8.63	8.62
179	8.30	8.42	8.75	8.76	8.88	8.91	8.90	8.74	8.50	8.54
180	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	9295.59	9295.59	9295.59	9295.59	9295.59
1	9293.50	9295.56	9295.84	9291.68	9293.94
2	9289.37	9289.98	9291.72	9285.63	9290.26
3	9285.67	9285.94	9283.40	9277.76	9281.17
4	9278.13	9277.05	9275.45	9271.89	9273.36
5	9269.41	9269.23	9266.27	9262.67	9263.80
6	9258.57	9257.44	9255.97	9251.47	9252.05
7	9244.06	9243.24	9241.60	9240.95	9235.93
8	9226.90	9228.01	9226.34	9225.50	9223.44
9	9207.78	9206.69	9208.47	9206.29	9203.70
10	9183.23	9184.11	9186.64	9185.66	9180.78
11	9156.67	9159.27	9163.22	9160.56	9157.63
12	9128.09	9129.30	9133.01	9128.71	9111.97
13	9096.41	9097.26	9101.12	9067.12	9034.38
14	9064.78	9066.63	9049.70	8979.40	8941.26
15	9030.23	9029.75	8969.74	8884.56	8849.38
16	8989.56	8988.56	8878.52	8801.85	8776.15
17	8946.02	8930.69	8787.39	8739.45	8729.51
18	8901.67	8854.83	8712.31	8694.89	8682.45
19	8859.52	8767.20	8652.85	8647.11	8634.06

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CANDELA TABULATION - (Cont.)

20	8810.06	8674.42	8599.53	8599.46	8582.03
21	8755.74	8584.82	8548.58	8546.78	8530.29
22	8701.17	8504.44	8493.17	8491.90	8472.22
23	8634.57	8438.66	8433.55	8435.97	8408.32
24	8547.43	8374.79	8369.31	8367.46	8334.41
25	8461.17	8307.46	8301.48	8291.13	8256.27
26	8360.48	8238.07	8226.86	8211.12	8165.51
27	8255.27	8169.67	8154.21	8117.28	8052.99
28	8154.58	8090.95	8067.29	8004.44	7931.49
29	8046.54	8017.16	7981.14	7879.00	7824.29
30	7952.30	7935.01	7878.44	7773.54	7737.19
31	7856.58	7848.08	7754.91	7687.19	7657.57
32	7777.68	7756.14	7632.35	7611.50	7569.49
33	7695.41	7663.89	7517.90	7512.41	7470.96
34	7601.53	7565.25	7427.18	7412.19	7369.50
35	7511.48	7459.40	7334.53	7308.59	7270.01
36	7416.56	7337.50	7236.09	7206.31	7174.09
37	7315.75	7204.31	7124.83	7104.14	7072.24
38	7210.52	7069.10	7006.69	7002.49	6934.13
39	7101.53	6944.68	6892.39	6869.71	6774.26
40	6985.58	6826.19	6785.76	6711.64	6627.89
41	6864.62	6727.94	6680.05	6570.18	6516.73
42	6756.32	6614.26	6540.58	6446.08	6405.92
43	6571.51	6482.67	6375.04	6337.09	6292.77
44	6252.75	6352.29	6220.86	6227.34	6176.07
45	5879.57	6222.06	6082.60	6102.73	6058.22
46	5591.57	6089.00	5962.79	5983.40	5933.63
47	5385.56	5957.32	5839.87	5857.07	5776.85
48	5236.66	5811.37	5710.68	5699.10	5590.83
49	5092.39	5606.35	5580.37	5509.42	5442.58
50	4951.37	5288.92	5449.40	5351.51	5308.52
51	4825.62	4933.02	5301.24	5216.20	5165.72
52	4697.86	4667.11	5113.84	5073.64	5004.42
53	4565.79	4477.48	4932.37	4908.58	4841.40
54	4425.68	4337.79	4788.40	4744.70	4641.64
55	4282.23	4203.09	4631.42	4543.44	4457.54
56	4140.98	4060.72	4461.49	4352.47	4286.48
57	3999.17	3916.77	4287.44	4187.23	4124.31
58	3856.86	3744.10	4096.76	4015.91	3966.76
59	3695.12	3573.00	3883.28	3855.17	3778.92
60	3521.77	3432.10	3616.15	3664.92	3568.31
61	3349.74	3282.07	3305.41	3450.86	3398.50
62	3193.65	3122.48	3057.31	3279.99	3239.55
63	3036.13	2959.02	2851.57	3117.85	3051.35
64	2869.33	2770.33	2667.25	2915.85	2857.47
65	2519.17	2603.18	2517.05	2729.83	2701.30
66	2266.01	2439.03	2367.24	2571.61	2523.06
67	2127.25	2286.82	2214.83	2388.19	2326.54
68	1988.50	2097.24	2062.42	2214.19	2162.05
69	1849.59	1905.51	1909.28	2040.20	1972.53
70	1704.98	1623.37	1727.92	1866.25	1807.13
71	1559.76	1470.18	1581.80	1700.07	1619.78
72	1420.36	1336.73	1421.85	1508.97	1462.69
73	1261.62	1210.26	1274.80	1338.25	1289.85
74	1013.15	1067.94	1111.87	1171.92	1121.58
75	880.21	953.06	955.91	973.03	971.60

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CANDELA TABULATION - (Cont.)

76	778.81	819.63	762.60	792.35	829.50
77	668.89	628.52	641.81	670.03	687.50
78	506.24	527.11	536.50	544.10	555.29
79	422.37	437.15	443.17	440.82	439.83
80	311.81	321.67	350.22	342.66	338.65
81	242.90	255.75	276.12	271.01	250.69
82	174.46	189.83	202.03	199.37	182.95
83	119.88	124.84	128.85	128.72	126.84
84	83.17	86.53	90.71	89.46	97.74
85	62.49	61.00	62.21	64.20	69.05
86	44.07	41.91	43.92	42.94	40.37
87	29.74	28.41	29.67	28.88	23.98
88	15.40	14.90	15.42	14.81	16.68
89	1.52	1.51	1.24	1.21	11.28
90	1.05	1.08	1.12	1.17	5.92
91	1.14	1.17	1.21	1.27	0.57
92	1.23	1.26	1.31	1.37	0.57
93	1.34	1.36	1.42	1.48	0.61
94	1.44	1.48	1.52	1.59	0.66
95	1.57	1.70	1.63	1.69	0.71
96	1.84	1.94	1.80	1.80	0.76
97	2.03	1.96	1.93	1.91	0.80
98	2.22	2.09	2.06	2.02	0.85
99	2.34	2.25	2.16	2.12	0.90
100	2.43	2.35	2.23	2.22	0.95
101	2.49	2.44	2.31	2.31	1.00
102	2.55	2.52	2.41	2.40	1.05
103	2.63	2.57	2.50	2.50	1.11
104	2.70	2.60	2.59	2.59	1.16
105	2.76	2.63	2.65	2.65	1.21
106	2.76	2.66	2.69	2.69	1.26
107	2.76	2.70	2.72	2.72	1.32
108	2.76	2.74	2.76	2.75	1.38
109	2.77	2.79	2.79	2.79	1.45
110	2.79	2.84	2.82	2.82	1.52
111	2.83	2.89	2.86	2.86	1.60
112	2.87	2.94	2.90	2.91	1.69
113	2.93	3.00	2.95	2.97	1.78
114	3.00	3.06	3.01	3.04	1.88
115	3.07	3.12	3.08	3.12	1.99
116	3.16	3.21	3.17	3.20	2.10
117	3.26	3.32	3.29	3.32	2.19
118	3.37	3.44	3.39	3.44	2.29
119	3.48	3.57	3.50	3.54	2.42
120	3.61	3.68	3.61	3.65	2.54
121	3.74	3.78	3.71	3.77	2.66
122	3.87	3.89	3.81	3.90	2.79
123	4.01	4.03	3.92	4.05	2.92
124	4.14	4.18	4.06	4.21	3.07
125	4.29	4.34	4.24	4.37	3.21
126	4.46	4.48	4.43	4.52	3.32
127	4.66	4.62	4.63	4.69	3.40
128	4.86	4.76	4.84	4.88	3.50
129	5.07	4.91	5.04	5.06	3.62
130	5.24	5.08	5.22	5.27	3.75
131	5.36	5.24	5.40	5.46	3.88

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CANDELA TABULATION - (Cont.)

132	5.49	5.42	5.55	5.61	4.01
133	5.63	5.63	5.70	5.76	4.15
134	5.80	5.82	5.85	5.91	4.27
135	5.99	6.01	5.99	6.05	4.38
136	6.16	6.21	6.14	6.20	4.47
137	6.32	6.42	6.26	6.37	4.57
138	6.50	6.60	6.42	6.52	4.67
139	6.71	6.76	6.60	6.71	4.78
140	6.92	6.91	6.78	6.88	4.85
141	7.13	7.06	6.95	7.03	4.92
142	7.34	7.20	7.12	7.16	4.98
143	7.53	7.34	7.29	7.31	5.04
144	7.65	7.50	7.42	7.47	5.11
145	7.73	7.66	7.55	7.65	5.19
146	7.84	7.82	7.67	7.81	5.26
147	7.96	7.97	7.82	7.93	5.32
148	8.07	8.13	7.98	8.06	5.36
149	8.21	8.29	8.20	8.19	5.41
150	8.33	8.45	8.41	8.33	5.49
151	8.44	8.59	8.60	8.51	5.60
152	8.57	8.69	8.82	8.64	5.71
153	8.78	8.84	9.06	8.82	5.78
154	9.10	9.08	9.30	9.05	5.86
155	9.41	9.36	9.57	9.35	5.92
156	9.69	9.60	9.82	9.52	6.03
157	9.89	9.76	9.98	9.42	6.15
158	9.96	9.85	10.07	9.69	6.28
159	9.98	9.91	10.15	9.99	6.39
160	9.98	9.95	10.17	10.02	6.44
161	9.97	9.99	10.15	10.00	6.48
162	9.97	9.99	10.08	9.97	6.50
163	9.96	9.97	10.03	9.94	6.56
164	9.93	9.91	9.99	9.94	6.65
165	9.89	9.79	9.92	9.94	6.75
166	9.88	9.61	9.84	9.92	6.87
167	9.81	9.42	9.76	9.88	6.98
168	9.69	9.35	9.70	9.75	7.08
169	9.55	9.23	9.58	9.62	7.17
170	9.41	9.13	9.53	9.65	7.19
171	9.29	9.09	9.53	9.59	7.17
172	9.18	9.04	9.41	9.51	7.24
173	9.09	8.92	9.29	9.42	7.41
174	9.05	8.86	9.26	9.38	7.72
175	9.00	8.71	9.16	9.28	8.05
176	8.91	8.60	9.02	9.09	8.22
177	8.69	8.52	8.85	8.87	8.32
178	8.40	8.37	8.60	8.59	8.41
179	8.23	8.28	8.46	8.44	8.48
180	8.61	8.61	8.61	8.61	8.61

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3431.73	13.90	13.90
0-30	7319.4	29.70	29.70
0-40	12036.72	48.90	48.90
0-60	20776.11	84.30	84.30
0-80	24498.89	99.40	99.40
0-90	24614.13	99.90	99.90
10-90	23730.79	96.30	96.30
20-40	8604.98	34.90	34.90
20-50	13322.54	54.10	54.10
40-70	11403.75	46.30	46.30
60-80	3722.78	15.10	15.10
70-80	1058.43	4.30	4.30
80-90	115.24	0.50	0.50
90-110	3.46	0.00	0.00
90-120	5.96	0.00	0.00
90-130	9.28	0.00	0.00
90-150	17.30	0.10	0.10
90-180	23.98	0.10	0.10
110-180	20.52	0.10	0.10
0-180	24638.11	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	883.35
10-20	2548.39
20-30	3887.67
30-40	4717.32
40-50	4717.56
50-60	4021.83
60-70	2664.35
70-80	1058.43
80-90	115.24
90-100	1.40
100-110	2.05
110-120	2.50
120-130	3.32
130-140	3.99
140-150	4.02
150-160	3.50
160-170	2.37
170-180	0.81

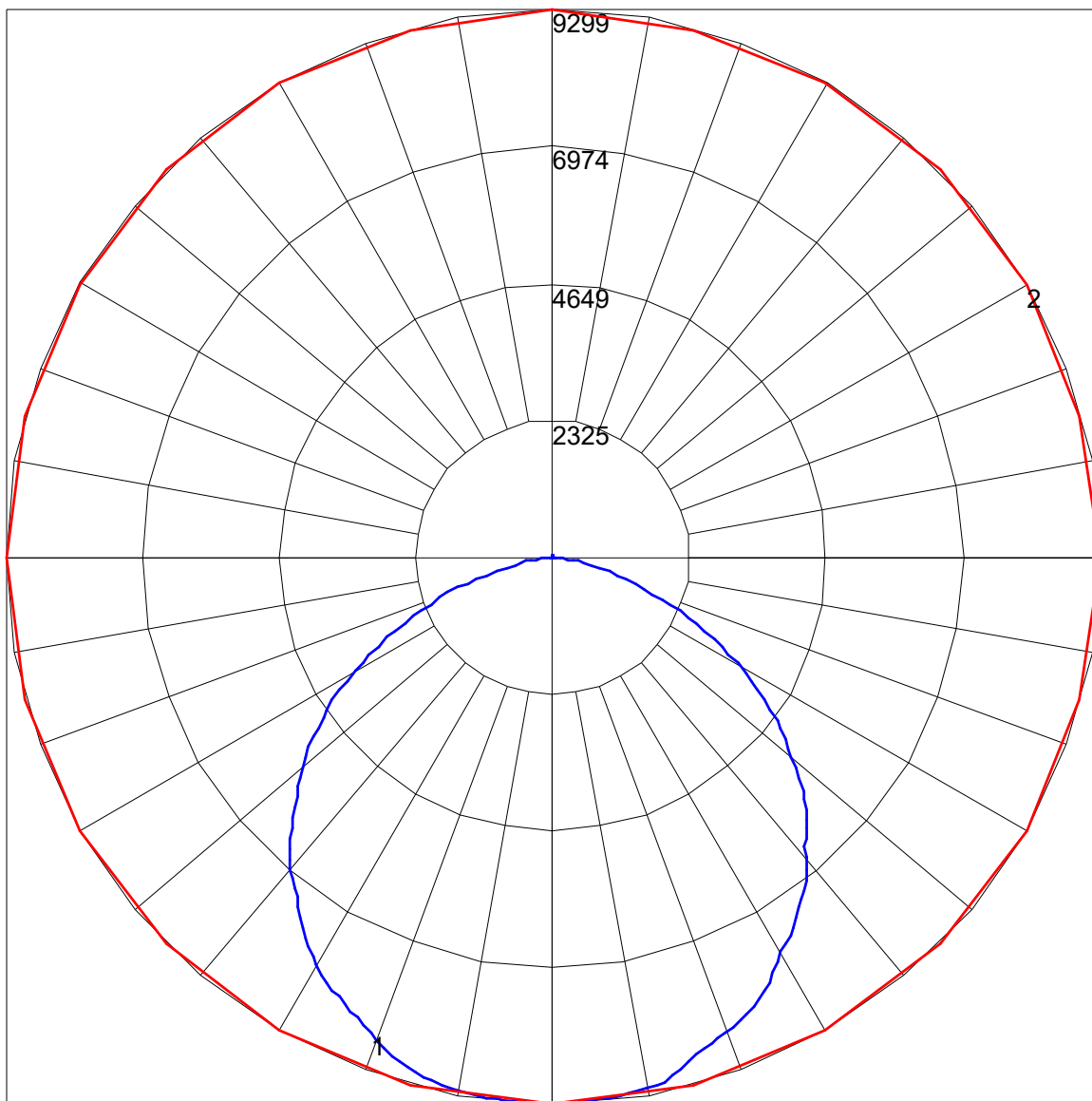
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 9298.57 Located At Horizontal Angle = 195, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (195 - 15) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)