

IES Indoor Report**Photometric Filename: STREAM 36W 230V.IES****Description Information(From Photometric File)**

Photometric File: STREAM 36W 230V.IES

IES Format: IESNA: LM-63-2002

[TEST] ELMARK

[TESTLAB] ELMARK

[ISSUEDATE] 2015/03/10

[MANUFAC] ELMARK

[LUMCAT] 98STREAM36

[LUMINAIRE] STREAM36

[LAMPCAT]

[LAMP] LED HIGH POWER - 36pcs

[BALLASTCAT]

[BALLAST]

[OTHER] GON-1800

[MORE] Temperature:25, Humidity:40

[More] Frequency:50.0 Voltage:230.4 Current:0.177 Power:39.0 PF:0.955

Character

Lamp Power (w) :	39.0
Total Rated Lamp Lumens (lm) :	3600.00
Luminair Lumens (lm) :	2253.48
Total Luminair Efficiency:	62.60%
Luminaire Efficacy Rating (LER) :	57.78
Maximum Intensity (cd) :	5915.94
Max Cd Angle (deg) :	C=0.0 γ =2.0
Downward Lumens (lm) :	2252.94
Downward Total Efficiency:	99.98%
Spacing Criteria:	C0_180=0.26 C90_270=0.22
CIE Type:	Semi-Direct
Beam Angle (50%Imax) :	Left=-11.7 Right=15.0
Field Angle (10%Imax) :	61.4
ErP ϕ use (90deg) :	1928.81lm

Candela Tabulation

	<u>C0.0</u>	<u>C30.0</u>	<u>C60.0</u>	<u>C90.0</u>	<u>C120.0</u>	<u>C150.0</u>	<u>C180.0</u>
<u>Y0.0</u>	5858.11	5858.11	5858.11	5858.11	5858.11	5858.11	5858.11
<u>Y1.0</u>	5913.32	5894.74	5872.82	5835.28	5807.27	5779.06	5769.74
<u>Y2.0</u>	5915.94	5881.39	5840.59	5771.86	5721.67	5684.02	5678.11
<u>Y3.0</u>	5893.99	5841.51	5785.12	5677.69	5614.73	5549.91	5559.20
<u>Y4.0</u>	5850.44	5777.91	5692.02	5557.04	5464.88	5383.88	5393.19
<u>Y5.0</u>	5774.15	5665.94	5563.22	5388.82	5280.58	5170.18	5194.19
<u>Y6.0</u>	5653.52	5525.13	5394.99	5189.13	5048.70	4926.14	4956.55
<u>Y7.0</u>	5503.58	5335.93	5191.90	4944.77	4779.98	4644.78	4688.23
<u>Y8.0</u>	5310.97	5127.72	4949.49	4670.14	4480.41	4331.32	4389.29
<u>Y9.0</u>	5095.52	4878.15	4661.94	4355.31	4139.08	3977.80	4034.84
<u>Y10.0</u>	4830.92	4587.59	4351.16	4013.25	3793.05	3579.11	3639.32
<u>Y11.0</u>	4542.25	4277.55	4013.73	3681.63	3431.55	3203.65	3213.85
<u>Y12.0</u>	4214.16	3918.33	3668.58	3337.93	3093.32	2829.35	2825.46
<u>Y13.0</u>	3829.00	3521.29	3315.70	3002.64	2761.86	2488.41	2469.14
<u>Y14.0</u>	3401.94	3121.85	2975.10	2696.94	2453.82	2194.40	2162.66
<u>Y15.0</u>	2966.33	2739.27	2647.94	2408.91	2189.83	1932.16	1895.00
<u>Y16.0</u>	2591.22	2414.01	2373.22	2159.12	1965.33	1719.29	1667.50
<u>Y17.0</u>	2261.69	2131.82	2116.60	1933.40	1757.53	1529.18	1471.19
<u>Y18.0</u>	1971.60	1882.49	1880.82	1728.03	1585.61	1364.82	1305.20
<u>Y19.0</u>	1729.15	1668.02	1685.42	1559.34	1432.83	1239.74	1175.64
<u>Y20.0</u>	1527.34	1494.03	1521.85	1416.48	1307.79	1139.89	1082.27
<u>Y21.0</u>	1343.72	1339.81	1374.53	1285.06	1200.90	1049.28	997.37
<u>Y22.0</u>	1205.94	1216.53	1257.95	1180.62	1105.37	980.04	927.50
<u>Y23.0</u>	1095.07	1118.46	1151.97	1082.59	1020.35	912.32	871.40
<u>Y24.0</u>	1009.17	1033.02	1065.67	993.75	947.07	850.83	814.92
<u>Y25.0</u>	938.38	959.34	986.55	916.62	874.67	798.28	767.92
<u>Y26.0</u>	872.59	895.95	906.60	839.41	804.07	743.71	724.71
<u>Y27.0</u>	818.05	831.27	839.27	767.62	745.10	695.70	678.56
<u>Y28.0</u>	768.80	777.48	769.74	705.89	683.53	660.51	645.78
<u>Y29.0</u>	717.89	726.84	705.93	642.34	631.44	625.05	624.14
<u>Y30.0</u>	672.49	673.44	651.89	587.27	587.57	586.92	597.85
<u>Y31.0</u>	633.08	634.67	595.44	539.33	539.29	554.88	564.81
<u>Y32.0</u>	595.41	595.54	547.37	490.49	500.70	511.70	519.32
<u>Y33.0</u>	577.50	557.63	508.12	454.08	466.77	475.96	479.98
<u>Y34.0</u>	550.56	524.18	465.27	419.23	428.56	442.81	445.37
<u>Y35.0</u>	503.85	478.02	428.93	382.17	398.07	404.52	404.14
<u>Y36.0</u>	463.84	436.65	396.34	356.75	370.94	377.58	374.07
<u>Y37.0</u>	425.12	402.40	363.45	329.41	343.72	352.59	346.40
<u>Y38.0</u>	382.70	366.08	338.14	303.68	323.68	324.91	316.14
<u>Y39.0</u>	352.25	335.00	314.92	288.23	306.08	307.06	297.03
<u>Y40.0</u>	319.89	312.12	291.69	267.05	287.20	287.51	274.74
<u>Y41.0</u>	294.36	287.71	279.76	254.10	278.28	268.18	256.82
<u>Y42.0</u>	276.86	267.65	264.42	246.18	266.30	255.37	243.24
<u>Y43.0</u>	256.57	253.92	250.10	230.73	251.85	240.74	226.50
<u>Y44.0</u>	240.23	234.39	244.13	225.69	247.24	225.19	214.11
<u>Y45.0</u>	229.07	224.95	230.54	217.43	235.68	216.79	204.98
<u>Y46.0</u>	213.34	213.57	222.21	204.60	226.99	203.93	192.54

Candela Tabulation - (Cont.)

	<u>C0.0</u>	<u>C30.0</u>	<u>C60.0</u>	<u>C90.0</u>	<u>C120.0</u>	<u>C150.0</u>	<u>C180.0</u>
<u>Y 47.0</u>	201.26	198.94	217.73	201.16	224.06	191.60	184.03
<u>Y 48.0</u>	194.49	193.22	205.77	190.24	213.37	185.82	177.55
<u>Y 49.0</u>	180.81	183.00	202.05	183.66	207.32	172.71	166.01
<u>Y 50.0</u>	173.87	173.21	196.63	179.40	203.11	165.16	161.04
<u>Y 51.0</u>	169.94	169.35	185.53	168.40	192.04	162.07	155.77
<u>Y 52.0</u>	159.14	160.98	181.71	163.21	186.24	150.66	145.18
<u>Y 53.0</u>	155.56	152.81	173.94	157.98	180.31	146.53	143.40
<u>Y 54.0</u>	149.97	149.34	165.41	149.07	170.20	141.89	136.80
<u>Y 55.0</u>	138.69	142.65	161.45	146.20	164.13	130.74	127.46
<u>Y 56.0</u>	135.49	135.08	154.80	139.73	157.77	127.81	125.97
<u>Y 57.0</u>	128.31	132.99	144.97	132.04	146.22	121.68	115.85
<u>Y 58.0</u>	119.68	125.73	141.73	129.76	142.81	112.47	111.82
<u>Y 59.0</u>	116.44	116.72	132.95	122.13	133.78	108.14	107.54
<u>Y 60.0</u>	108.48	114.75	122.14	115.74	121.58	102.51	97.37
<u>Y 61.0</u>	100.36	103.27	118.21	112.83	117.74	92.95	93.70
<u>Y 62.0</u>	96.73	99.50	107.28	102.47	104.54	91.02	87.42
<u>Y 63.0</u>	89.77	94.74	98.57	99.58	96.78	83.34	79.01
<u>Y 64.0</u>	82.29	83.61	95.12	95.06	92.73	74.18	75.48
<u>Y 65.0</u>	80.31	79.46	84.97	85.54	80.41	72.00	70.06
<u>Y 66.0</u>	70.26	73.40	77.35	84.30	75.76	62.64	61.95
<u>Y 67.0</u>	65.64	65.21	73.38	77.00	69.62	56.63	59.76
<u>Y 68.0</u>	64.57	60.75	65.35	68.67	58.63	55.95	54.65
<u>Y 69.0</u>	55.32	56.72	57.67	66.64	55.82	47.49	47.63
<u>Y 70.0</u>	54.35	48.20	55.29	56.21	47.99	43.92	46.75
<u>Y 71.0</u>	50.99	45.28	48.24	52.38	40.23	41.64	40.64
<u>Y 72.0</u>	41.54	42.57	39.92	49.57	38.96	33.39	34.24
<u>Y 73.0</u>	40.06	34.34	39.46	40.23	31.67	30.32	33.53
<u>Y 74.0</u>	34.68	34.33	30.96	40.72	27.22	28.00	24.78
<u>Y 75.0</u>	28.79	30.28	25.52	35.09	26.01	21.19	21.63
<u>Y 76.0</u>	27.97	22.45	25.28	26.98	19.33	18.55	21.20
<u>Y 77.0</u>	23.08	22.49	19.11	27.33	16.05	16.75	13.65
<u>Y 78.0</u>	17.26	17.02	15.28	18.97	15.13	9.75	13.43
<u>Y 79.0</u>	16.93	12.85	15.27	18.48	8.64	11.48	9.22
<u>Y 80.0</u>	12.62	12.72	10.44	16.13	8.67	8.22	4.76
<u>Y 81.0</u>	8.06	9.03	6.62	8.15	7.37	2.47	6.34
<u>Y 82.0</u>	9.67	4.57	7.80	9.91	1.59	5.04	3.36
<u>Y 83.0</u>	3.33	6.50	1.96	3.93	4.27	0.00	0.19
<u>Y 84.0</u>	2.27	3.78	0.18	0.77	0.97	0.00	1.95
<u>Y 85.0</u>	4.76	0.00	2.78	3.96	0.00	2.13	0.01
<u>Y 86.0</u>	0.00	2.73	0.00	0.00	1.46	0.00	0.00
<u>Y 87.0</u>	0.53	0.00	0.00	0.13	0.00	0.00	0.56
<u>Y 88.0</u>	1.32	0.00	0.62	0.94	0.00	0.49	0.00
<u>Y 89.0</u>	0.00	0.25	0.00	0.00	0.22	0.00	0.00
<u>Y 90.0</u>	0.00	0.00	0.00	0.08	0.00	0.00	0.23
<u>Y 91.0</u>	0.00	0.00	0.00	0.00	0.19	0.00	0.00
<u>Y 92.0</u>	0.00	0.00	0.00	0.00	0.05	0.00	0.00
<u>Y 93.0</u>	0.00	0.00	0.00	0.78	0.00	0.00	0.12

Candela Tabulation - (Cont.)

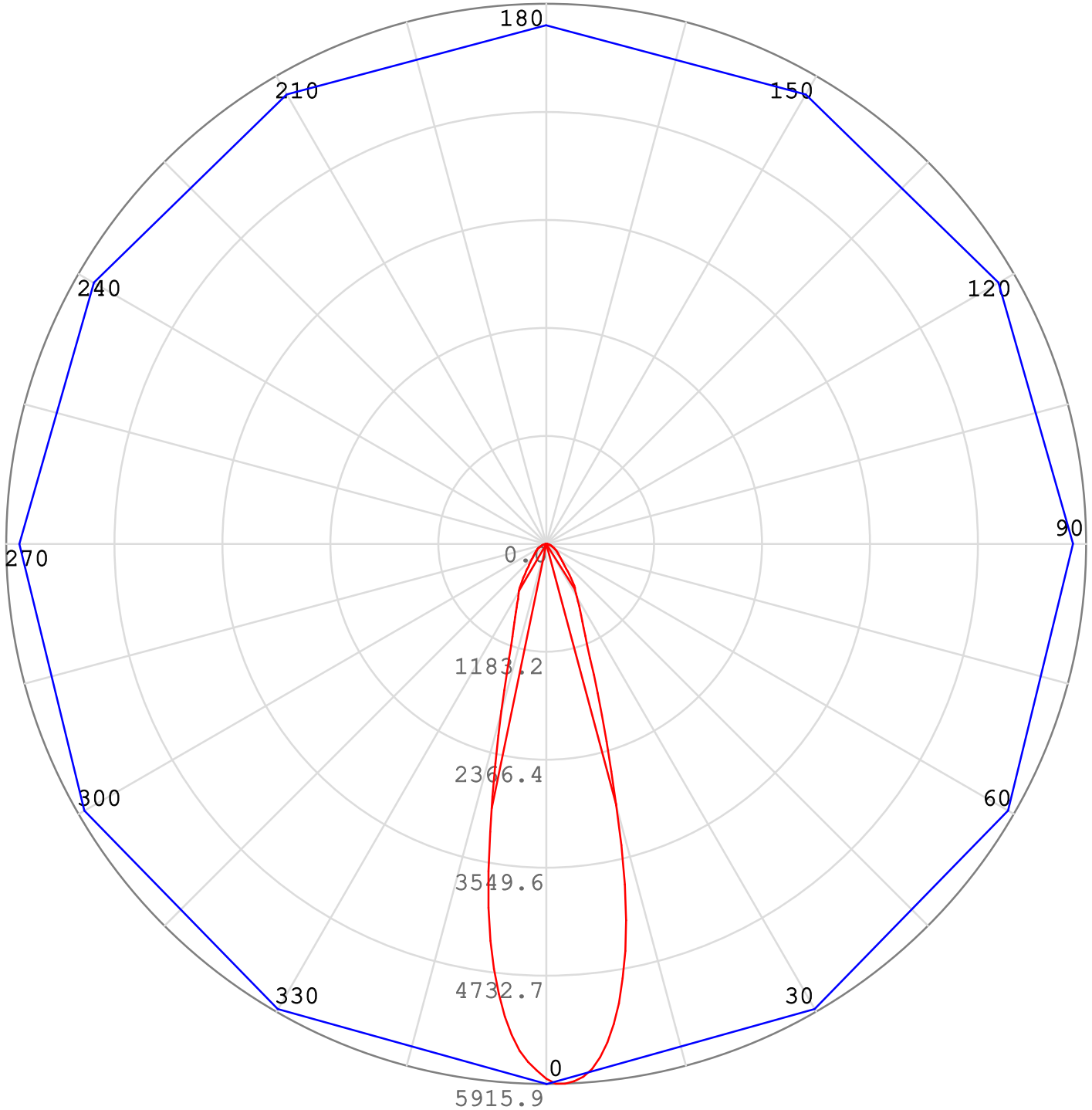
	<u>C0.0</u>	<u>C30.0</u>	<u>C60.0</u>	<u>C90.0</u>	<u>C120.0</u>	<u>C150.0</u>	<u>C180.0</u>
<u>Y 94.0</u>	0.00	0.00	0.26	0.00	0.43	0.00	0.00
<u>Y 95.0</u>	0.00	0.10	0.00	0.00	0.00	0.00	0.00
<u>Y 96.0</u>	0.00	0.00	0.00	0.00	0.00	0.25	0.00
<u>Y 97.0</u>	0.00	0.00	0.59	0.00	0.49	0.00	0.00
<u>Y 98.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 99.0</u>	0.17	0.00	0.00	0.00	0.00	0.38	0.00
<u>Y 100.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 101.0</u>	0.00	0.23	0.00	0.00	0.00	0.00	0.00
<u>Y 102.0</u>	0.00	0.00	0.00	0.00	0.00	0.22	0.00
<u>Y 103.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 104.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.22
<u>Y 105.0</u>	0.00	0.00	0.00	0.00	0.64	0.37	0.00
<u>Y 106.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 107.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.25
<u>Y 108.0</u>	0.30	0.00	0.50	0.00	0.00	0.00	0.00
<u>Y 109.0</u>	0.00	0.00	0.01	0.00	0.00	0.00	0.00
<u>Y 110.0</u>	0.00	0.07	0.00	0.00	0.00	0.00	0.00
<u>Y 111.0</u>	0.45	0.00	0.20	0.00	0.00	0.00	0.00
<u>Y 112.0</u>	0.00	0.00	0.00	0.40	0.00	0.00	0.00
<u>Y 113.0</u>	0.00	0.00	0.00	0.00	0.00	0.19	0.20
<u>Y 114.0</u>	0.41	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 115.0</u>	0.00	0.00	0.00	0.23	0.00	0.00	0.00
<u>Y 116.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.59
<u>Y 117.0</u>	0.13	0.00	0.33	0.00	0.00	0.00	0.00
<u>Y 118.0</u>	0.00	0.00	0.00	0.10	0.00	0.00	0.00
<u>Y 119.0</u>	0.00	0.00	0.00	0.00	0.00	0.31	0.21
<u>Y 120.0</u>	0.24	0.00	0.31	0.00	0.00	0.00	0.00
<u>Y 121.0</u>	0.00	0.00	0.00	0.00	0.46	0.00	0.00
<u>Y 122.0</u>	0.00	0.16	0.00	0.00	0.00	0.14	0.14
<u>Y 123.0</u>	0.18	0.00	0.74	0.00	0.00	0.00	0.00
<u>Y 124.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 125.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 126.0</u>	0.00	0.00	0.53	0.00	0.00	0.00	0.00
<u>Y 127.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 128.0</u>	0.00	0.00	0.00	0.00	0.00	0.18	0.08
<u>Y 129.0</u>	0.00	0.00	0.00	0.14	0.18	0.00	0.00
<u>Y 130.0</u>	0.00	0.34	0.00	0.00	0.00	0.00	0.00
<u>Y 131.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.59
<u>Y 132.0</u>	0.00	0.00	0.00	0.68	0.48	0.00	0.00
<u>Y 133.0</u>	0.00	0.38	0.00	0.00	0.00	0.00	0.00
<u>Y 134.0</u>	0.08	0.00	0.47	0.00	0.00	0.00	0.00
<u>Y 135.0</u>	0.00	0.00	0.00	0.30	0.59	0.00	0.00
<u>Y 136.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 137.0</u>	0.28	0.00	0.41	0.00	0.00	0.00	0.00
<u>Y 138.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 139.0</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 140.0</u>	0.52	0.00	0.64	0.00	0.00	0.00	0.00

Candela Tabulation - (Cont.)

	<u>C0.0</u>	<u>C30.0</u>	<u>C60.0</u>	<u>C90.0</u>	<u>C120.0</u>	<u>C150.0</u>	<u>C180.0</u>
<u>Y 141.0</u> 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 142.0</u> 0.00	0.07	0.00	0.00	0.00	0.00	0.62	0.06
<u>Y 143.0</u> 0.67	0.00	0.54	0.00	0.11	0.00	0.00	0.00
<u>Y 144.0</u> 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 145.0</u> 0.00	0.32	0.00	0.00	0.00	0.00	0.74	0.00
<u>Y 146.0</u> 0.00	0.00	0.00	0.88	0.45	0.00	0.00	0.00
<u>Y 147.0</u> 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 148.0</u> 0.00	0.47	0.00	0.00	0.00	0.00	0.35	0.00
<u>Y 149.0</u> 0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
<u>Y 150.0</u> 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 151.0</u> 0.00	0.00	0.72	0.00	0.28	0.49	0.56	0.56
<u>Y 152.0</u> 0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
<u>Y 153.0</u> 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 154.0</u> 0.76	0.00	0.63	0.00	1.06	0.37	0.80	0.80
<u>Y 155.0</u> 0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
<u>Y 156.0</u> 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 157.0</u> 0.67	0.00	0.56	0.00	0.83	1.05	0.74	0.74
<u>Y 158.0</u> 0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
<u>Y 159.0</u> 0.00	0.92	0.91	0.00	0.00	0.00	0.00	0.00
<u>Y 160.0</u> 0.82	0.00	0.55	0.00	0.69	0.80	0.82	0.82
<u>Y 161.0</u> 0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
<u>Y 162.0</u> 0.00	0.94	0.91	0.00	0.15	0.00	0.00	0.00
<u>Y 163.0</u> 0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.68
<u>Y 164.0</u> 0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 165.0</u> 0.29	0.75	1.51	0.00	0.09	0.00	0.00	0.00
<u>Y 166.0</u> 0.00	0.00	0.00	0.00	0.00	0.25	0.66	0.66
<u>Y 167.0</u> 0.00	0.79	0.24	0.22	0.00	0.00	0.00	0.00
<u>Y 168.0</u> 0.10	0.00	1.55	0.00	0.00	0.65	0.12	0.12
<u>Y 169.0</u> 0.00	0.00	0.00	0.00	0.00	0.44	0.78	0.78
<u>Y 170.0</u> 0.00	0.91	0.61	1.52	0.00	0.00	0.00	0.00
<u>Y 171.0</u> 1.23	0.00	0.00	0.00	1.20	0.23	0.00	0.00
<u>Y 172.0</u> 0.19	0.00	1.07	0.00	0.47	0.00	0.00	0.00
<u>Y 173.0</u> 0.00	0.00	0.00	0.00	0.00	1.13	1.05	1.05
<u>Y 174.0</u> 1.30	0.00	0.00	0.00	1.43	0.00	0.00	0.00
<u>Y 175.0</u> 0.00	1.18	0.93	1.34	0.00	0.00	0.00	0.00
<u>Y 176.0</u> 1.58	0.00	0.00	0.00	1.34	0.00	0.00	0.00
<u>Y 177.0</u> 0.00	0.91	1.37	1.41	0.00	0.00	0.00	0.00
<u>Y 178.0</u> 0.00	0.42	0.00	0.00	0.00	0.30	0.58	0.58
<u>Y 179.0</u> 0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Y 180.0</u> 0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

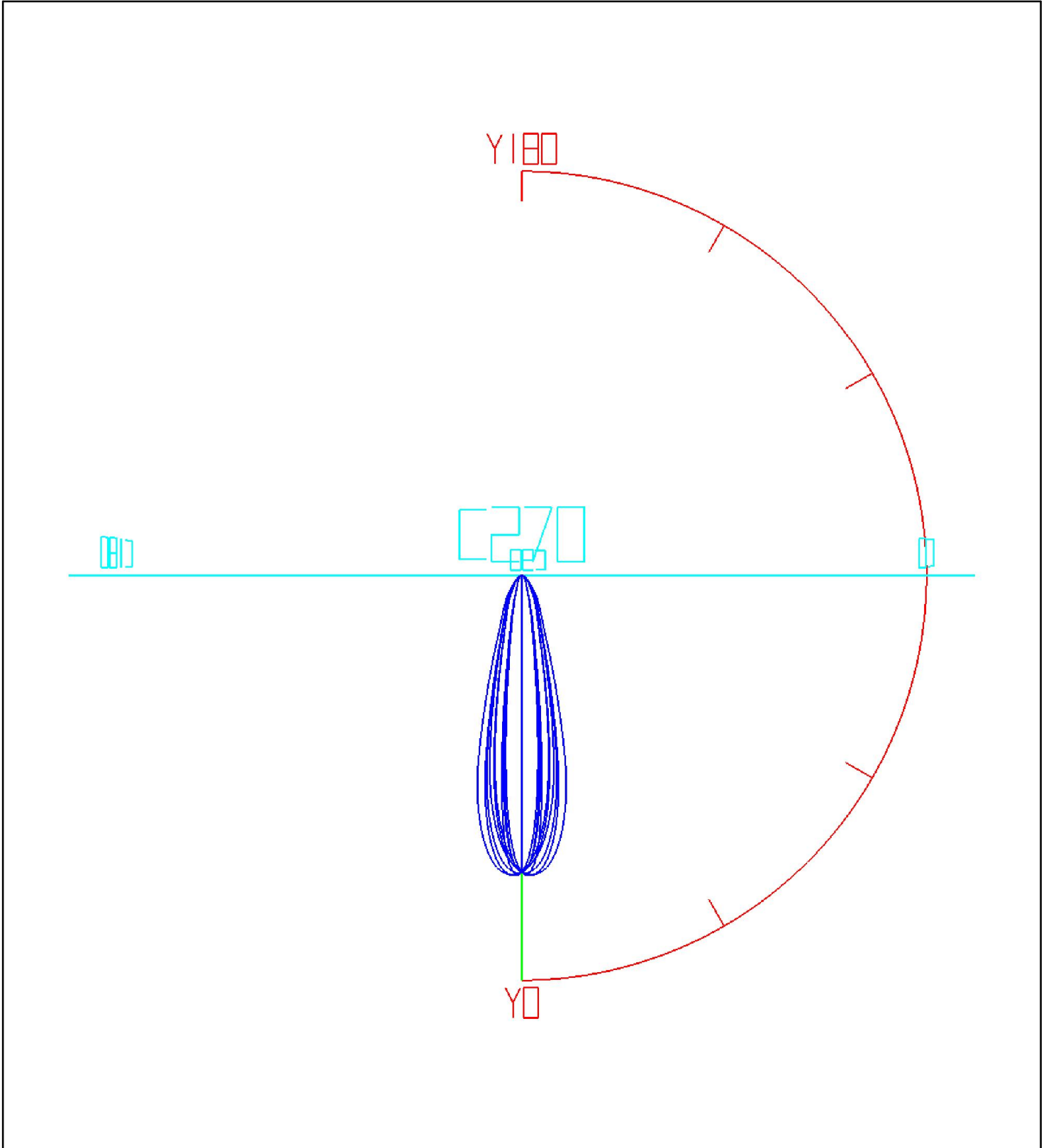
2D Light Intensity Distribution Curve

Plane [50%Ang.] [10%Ang.] Polar Graph
C0.0: 26.7 62.4



C Plane: C0.0 ———
γ Cone: γ2.0 ———

3D Light Intensity Distribution Curve



Curves: 3D Model — 3D Model — Fixture — Fixture — Vert. HUD — Vert. HUD — Hori. HUD — Hori. HUD
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

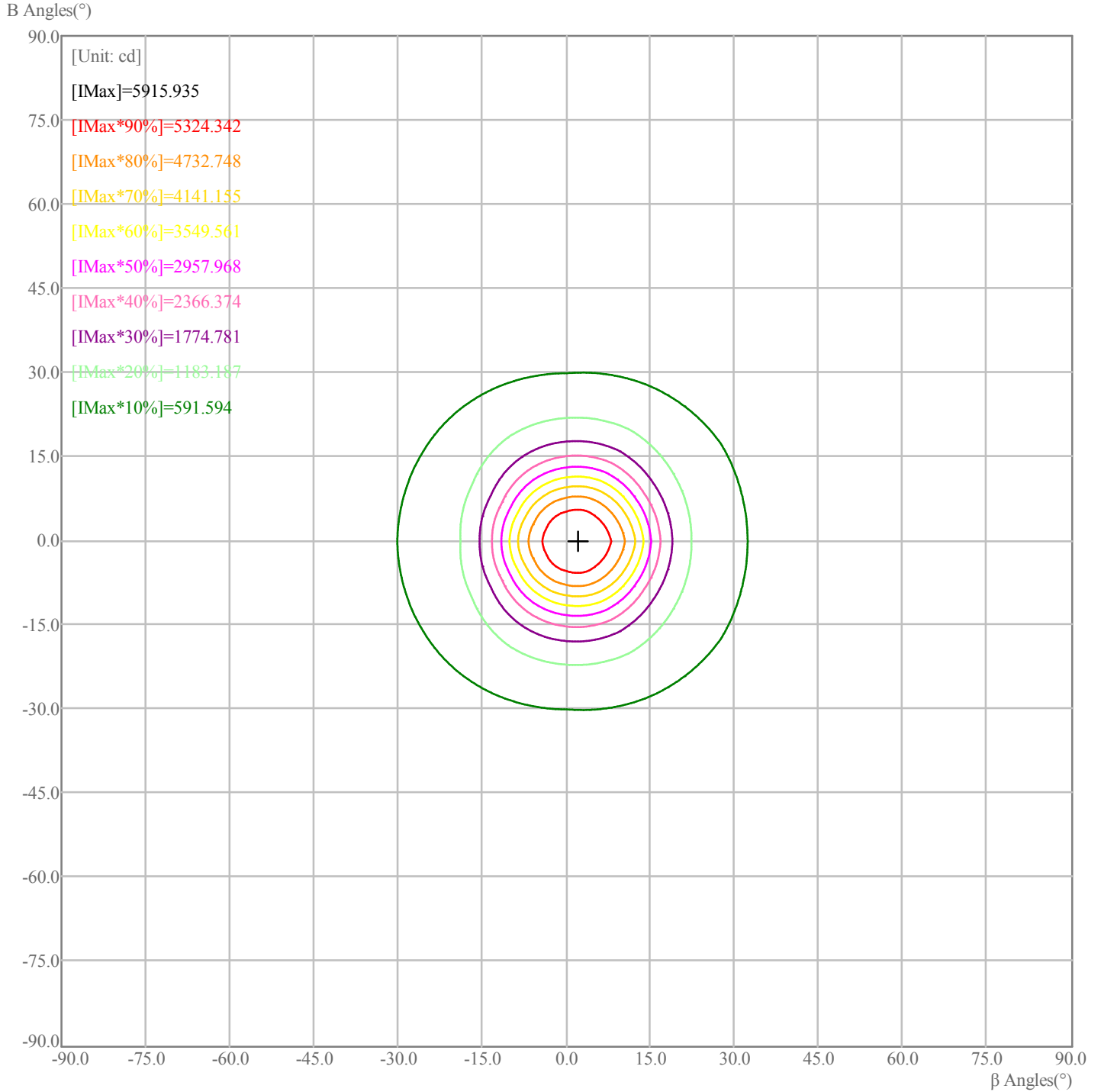
Zonal Liumens Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	5.60	5.60	0.25	0.25	47.0-48.0	16.17	16.17	0.72	0.72
1.0-2.0	16.68	22.28	0.74	0.99	48.0-49.0	15.72	31.89	0.70	1.42
2.0-3.0	27.46	49.74	1.22	2.21	49.0-50.0	15.34	47.23	0.68	2.10
3.0-4.0	37.77	87.50	1.68	3.88	50.0-51.0	14.99	62.22	0.67	2.76
4.0-5.0	47.36	134.86	2.10	5.98	51.0-52.0	14.56	76.77	0.65	3.41
5.0-6.0	56.01	190.87	2.49	8.47	52.0-53.0	14.18	90.95	0.63	4.04
6.0-7.0	63.50	254.37	2.82	11.29	53.0-54.0	13.81	104.76	0.61	4.65
7.0-8.0	69.66	324.03	3.09	14.38	54.0-55.0	13.37	118.14	0.59	5.24
8.0-9.0	74.27	398.30	3.30	17.67	55.0-56.0	12.99	131.12	0.58	5.82
9.0-10.0	77.13	475.43	3.42	21.10	56.0-57.0	12.54	143.67	0.56	6.38
10.0-11.0	78.35	553.78	3.48	24.57	57.0-58.0	12.09	155.75	0.54	6.91
11.0-12.0	78.07	631.85	3.46	28.04	58.0-59.0	11.64	167.39	0.52	7.43
12.0-13.0	76.36	708.21	3.39	31.43	59.0-60.0	11.07	178.46	0.49	7.92
13.0-14.0	73.52	781.73	3.26	34.69	60.0-61.0	10.51	188.97	0.47	8.39
14.0-15.0	69.95	851.69	3.10	37.79	61.0-62.0	9.95	198.92	0.44	8.83
15.0-16.0	66.20	917.89	2.94	40.73	62.0-63.0	9.36	208.28	0.42	9.24
16.0-17.0	62.54	980.43	2.78	43.51	63.0-64.0	8.81	217.08	0.39	9.63
17.0-18.0	58.85	1039.28	2.61	46.12	64.0-65.0	8.22	225.31	0.36	10.00
18.0-19.0	55.44	1094.71	2.46	48.58	65.0-66.0	7.63	232.94	0.34	10.34
19.0-20.0	52.54	1147.25	2.33	50.91	66.0-67.0	7.07	240.01	0.31	10.65
20.0-21.0	49.94	1197.19	2.22	53.13	67.0-68.0	6.53	246.54	0.29	10.94
21.0-22.0	47.65	1244.84	2.11	55.24	68.0-69.0	5.99	252.53	0.27	11.21
22.0-23.0	45.73	1290.57	2.03	57.27	69.0-70.0	5.46	257.99	0.24	11.45
23.0-24.0	43.99	1334.56	1.95	59.22	70.0-71.0	4.96	262.95	0.22	11.67
24.0-25.0	42.41	1376.97	1.88	61.10	71.0-72.0	4.47	267.42	0.20	11.87
25.0-26.0	40.83	1417.79	1.81	62.92	72.0-73.0	3.97	271.39	0.18	12.04
26.0-27.0	39.21	1457.00	1.74	64.66	73.0-74.0	3.54	274.93	0.16	12.20
27.0-28.0	37.69	1494.69	1.67	66.33	74.0-75.0	3.12	278.05	0.14	12.34
28.0-29.0	36.22	1530.91	1.61	67.94	75.0-76.0	2.66	280.71	0.12	12.46
29.0-30.0	34.76	1565.67	1.54	69.48	76.0-77.0	2.29	282.99	0.10	12.56
30.0-31.0	33.32	1599.00	1.48	70.96	77.0-78.0	1.89	284.88	0.08	12.64
31.0-32.0	31.83	1630.82	1.41	72.37	78.0-79.0	1.53	286.41	0.07	12.71
32.0-33.0	30.42	1661.24	1.35	73.72	79.0-80.0	1.30	287.71	0.06	12.77
33.0-34.0	29.10	1690.34	1.29	75.01	80.0-81.0	0.95	288.67	0.04	12.81
34.0-35.0	27.56	1717.89	1.22	76.23	81.0-82.0	0.69	289.36	0.03	12.84
35.0-36.0	26.02	1743.91	1.15	77.39	82.0-83.0	0.49	289.84	0.02	12.86
36.0-37.0	24.65	1768.56	1.09	78.48	83.0-84.0	0.24	290.08	0.01	12.87
37.0-38.0	23.27	1791.83	1.03	79.51	84.0-85.0	0.17	290.26	0.01	12.88
38.0-39.0	22.08	1813.92	0.98	80.49	85.0-86.0	0.14	290.40	0.01	12.89
39.0-40.0	21.04	1834.95	0.93	81.43	86.0-87.0	0.04	290.44	0.00	12.89
40.0-41.0	20.10	1855.05	0.89	82.32	87.0-88.0	0.03	290.47	0.00	12.89
41.0-42.0	19.40	1874.45	0.86	83.18	88.0-89.0	0.03	290.50	0.00	12.89
42.0-43.0	18.70	1893.15	0.83	84.01	89.0-90.0	0.01	290.51	0.00	12.89
43.0-44.0	18.07	1911.22	0.80	84.81	90.0-91.0	0.00	290.51	0.00	12.89
44.0-45.0	17.59	1928.81	0.78	85.59	91.0-92.0	0.00	290.51	0.00	12.89
45.0-46.0	17.06	1945.86	0.76	86.35	92.0-93.0	0.01	290.52	0.00	12.89
46.0-47.0	16.57	1962.44	0.74	87.08	93.0-94.0	0.01	290.53	0.00	12.89

Zonal Liumens Tabulation - (Cont.)

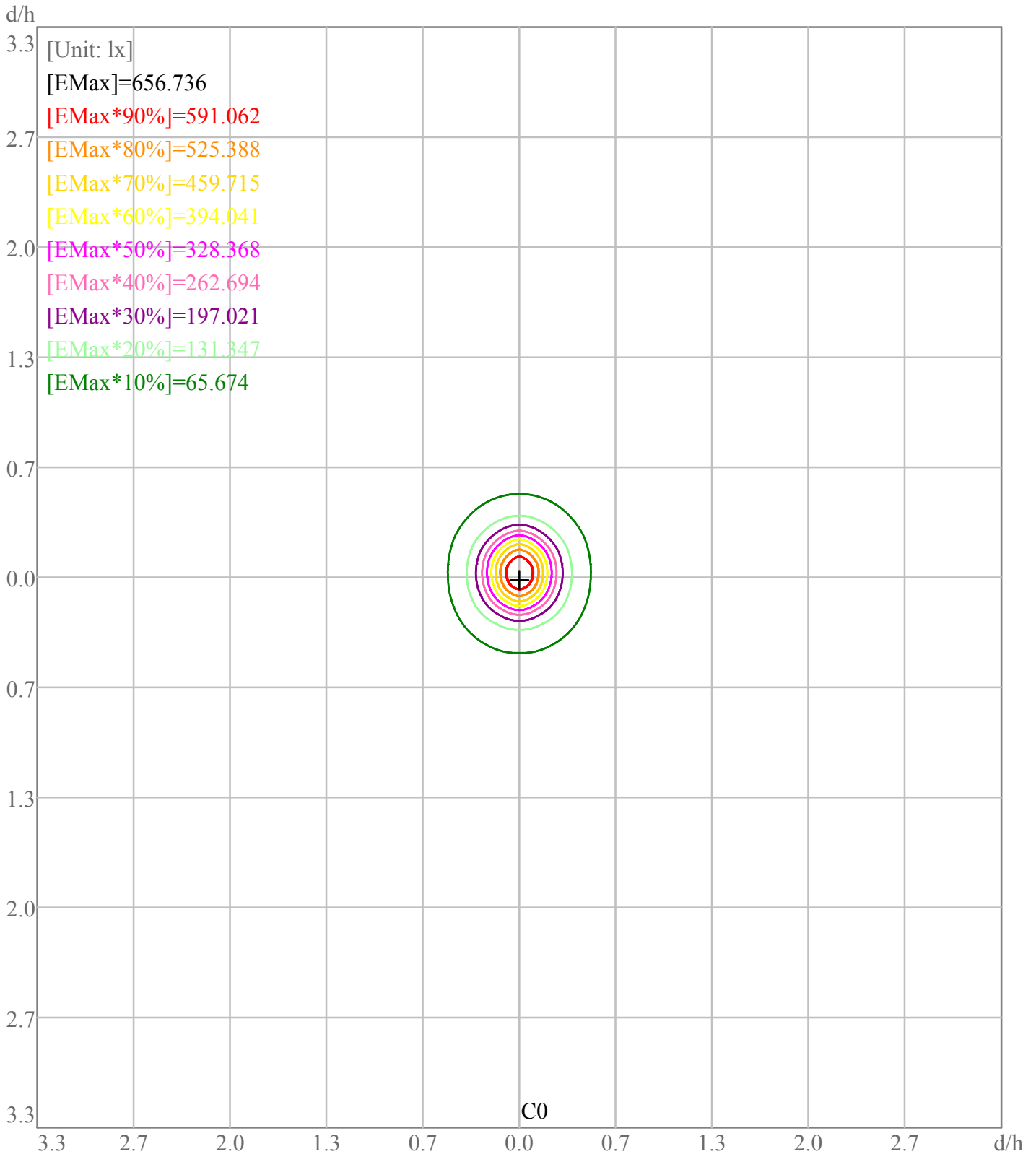
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.01	0.01	0.00	0.00	141.0-142.0	0.00	0.00	0.00	0.00
95.0-96.0	0.00	0.01	0.00	0.00	142.0-143.0	0.01	0.01	0.00	0.00
96.0-97.0	0.01	0.02	0.00	0.00	143.0-144.0	0.01	0.02	0.00	0.00
97.0-98.0	0.01	0.03	0.00	0.00	144.0-145.0	0.01	0.02	0.00	0.00
98.0-99.0	0.00	0.04	0.00	0.00	145.0-146.0	0.01	0.04	0.00	0.00
99.0-100.0	0.00	0.04	0.00	0.00	146.0-147.0	0.01	0.04	0.00	0.00
100.0-101.0	0.00	0.04	0.00	0.00	147.0-148.0	0.00	0.05	0.00	0.00
101.0-102.0	0.00	0.05	0.00	0.00	148.0-149.0	0.01	0.06	0.00	0.00
102.0-103.0	0.00	0.05	0.00	0.00	149.0-150.0	0.00	0.06	0.00	0.00
103.0-104.0	0.00	0.05	0.00	0.00	150.0-151.0	0.01	0.07	0.00	0.00
104.0-105.0	0.01	0.06	0.00	0.00	151.0-152.0	0.01	0.08	0.00	0.00
105.0-106.0	0.01	0.07	0.00	0.00	152.0-153.0	0.00	0.08	0.00	0.00
106.0-107.0	0.00	0.07	0.00	0.00	153.0-154.0	0.01	0.09	0.00	0.00
107.0-108.0	0.01	0.08	0.00	0.00	154.0-155.0	0.01	0.11	0.00	0.00
108.0-109.0	0.01	0.08	0.00	0.00	155.0-156.0	0.00	0.11	0.00	0.00
109.0-110.0	0.00	0.08	0.00	0.00	156.0-157.0	0.01	0.12	0.00	0.01
110.0-111.0	0.00	0.09	0.00	0.00	157.0-158.0	0.01	0.13	0.00	0.01
111.0-112.0	0.01	0.09	0.00	0.00	158.0-159.0	0.01	0.14	0.00	0.01
112.0-113.0	0.01	0.10	0.00	0.00	159.0-160.0	0.02	0.16	0.00	0.01
113.0-114.0	0.00	0.10	0.00	0.00	160.0-161.0	0.01	0.17	0.00	0.01
114.0-115.0	0.00	0.11	0.00	0.00	161.0-162.0	0.01	0.18	0.00	0.01
115.0-116.0	0.00	0.11	0.00	0.00	162.0-163.0	0.01	0.19	0.00	0.01
116.0-117.0	0.01	0.12	0.00	0.01	163.0-164.0	0.00	0.19	0.00	0.01
117.0-118.0	0.00	0.12	0.00	0.01	164.0-165.0	0.01	0.20	0.00	0.01
118.0-119.0	0.00	0.13	0.00	0.01	165.0-166.0	0.01	0.20	0.00	0.01
119.0-120.0	0.01	0.13	0.00	0.01	166.0-167.0	0.00	0.21	0.00	0.01
120.0-121.0	0.01	0.14	0.00	0.01	167.0-168.0	0.01	0.21	0.00	0.01
121.0-122.0	0.01	0.15	0.00	0.01	168.0-169.0	0.01	0.22	0.00	0.01
122.0-123.0	0.01	0.16	0.00	0.01	169.0-170.0	0.01	0.23	0.00	0.01
123.0-124.0	0.01	0.16	0.00	0.01	170.0-171.0	0.01	0.23	0.00	0.01
124.0-125.0	0.00	0.16	0.00	0.01	171.0-172.0	0.00	0.24	0.00	0.01
125.0-126.0	0.00	0.17	0.00	0.01	172.0-173.0	0.00	0.24	0.00	0.01
126.0-127.0	0.00	0.17	0.00	0.01	173.0-174.0	0.00	0.25	0.00	0.01
127.0-128.0	0.00	0.17	0.00	0.01	174.0-175.0	0.00	0.25	0.00	0.01
128.0-129.0	0.00	0.17	0.00	0.01	175.0-176.0	0.00	0.26	0.00	0.01
129.0-130.0	0.00	0.18	0.00	0.01	176.0-177.0	0.00	0.26	0.00	0.01
130.0-131.0	0.00	0.18	0.00	0.01	177.0-178.0	0.00	0.26	0.00	0.01
131.0-132.0	0.01	0.19	0.00	0.01	178.0-179.0	0.00	0.26	0.00	0.01
132.0-133.0	0.01	0.20	0.00	0.01	179.0-180.0	0.00	0.26	0.00	0.01
133.0-134.0	0.01	0.21	0.00	0.01					
134.0-135.0	0.01	0.22	0.00	0.01					
135.0-136.0	0.01	0.22	0.00	0.01					
136.0-137.0	0.00	0.23	0.00	0.01					
137.0-138.0	0.00	0.23	0.00	0.01					
138.0-139.0	0.00	0.23	0.00	0.01					
139.0-140.0	0.01	0.24	0.00	0.01					
140.0-141.0	0.01	0.24	0.00	0.01					

Rectangle ISO Light Intensity Curve



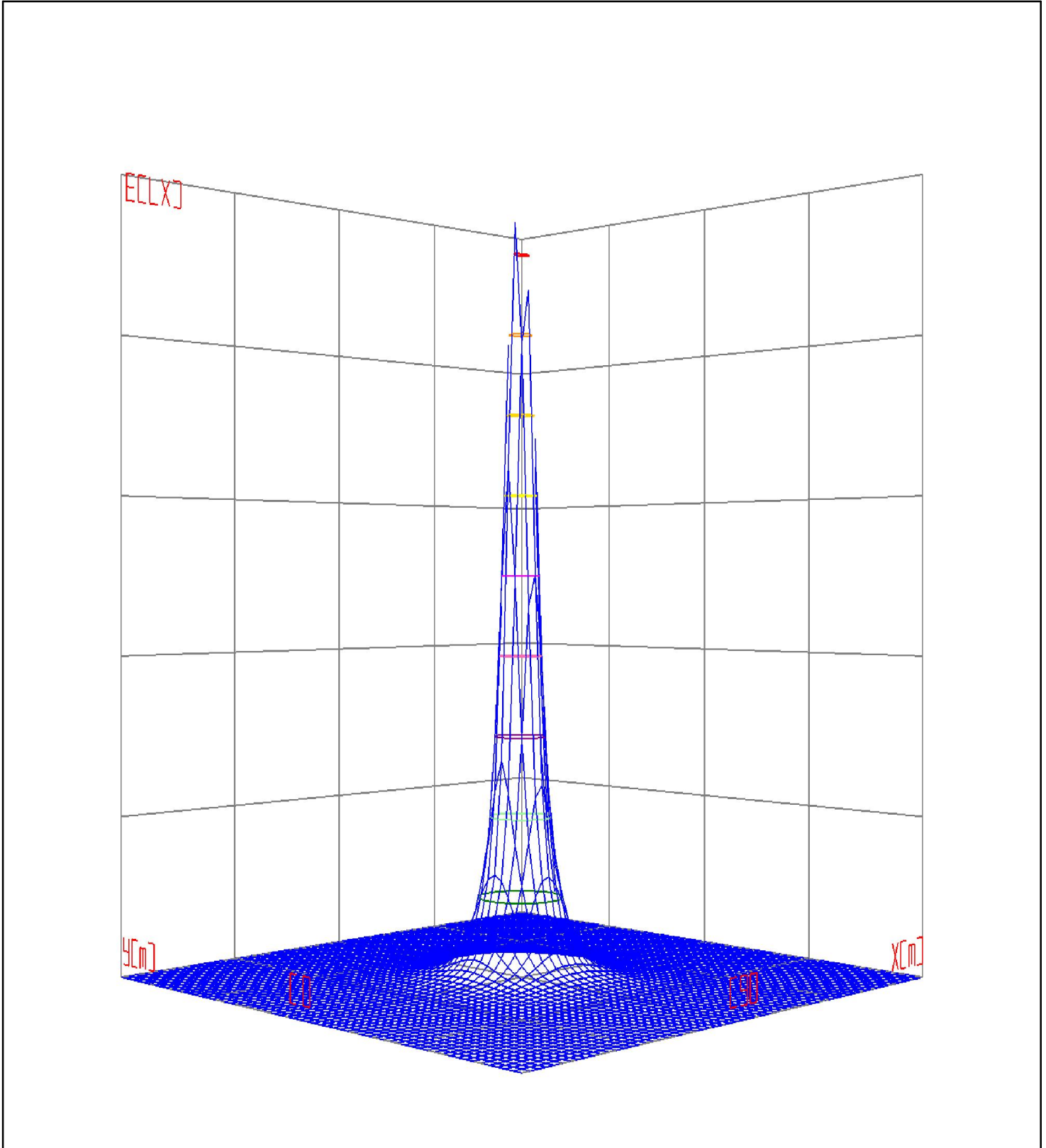
Curves: 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
Maximum Light Intensity(cd): 5915.94 Maximum Cd. Angles: H2.0 V0.0

Plane ISO-Illuminance Curve



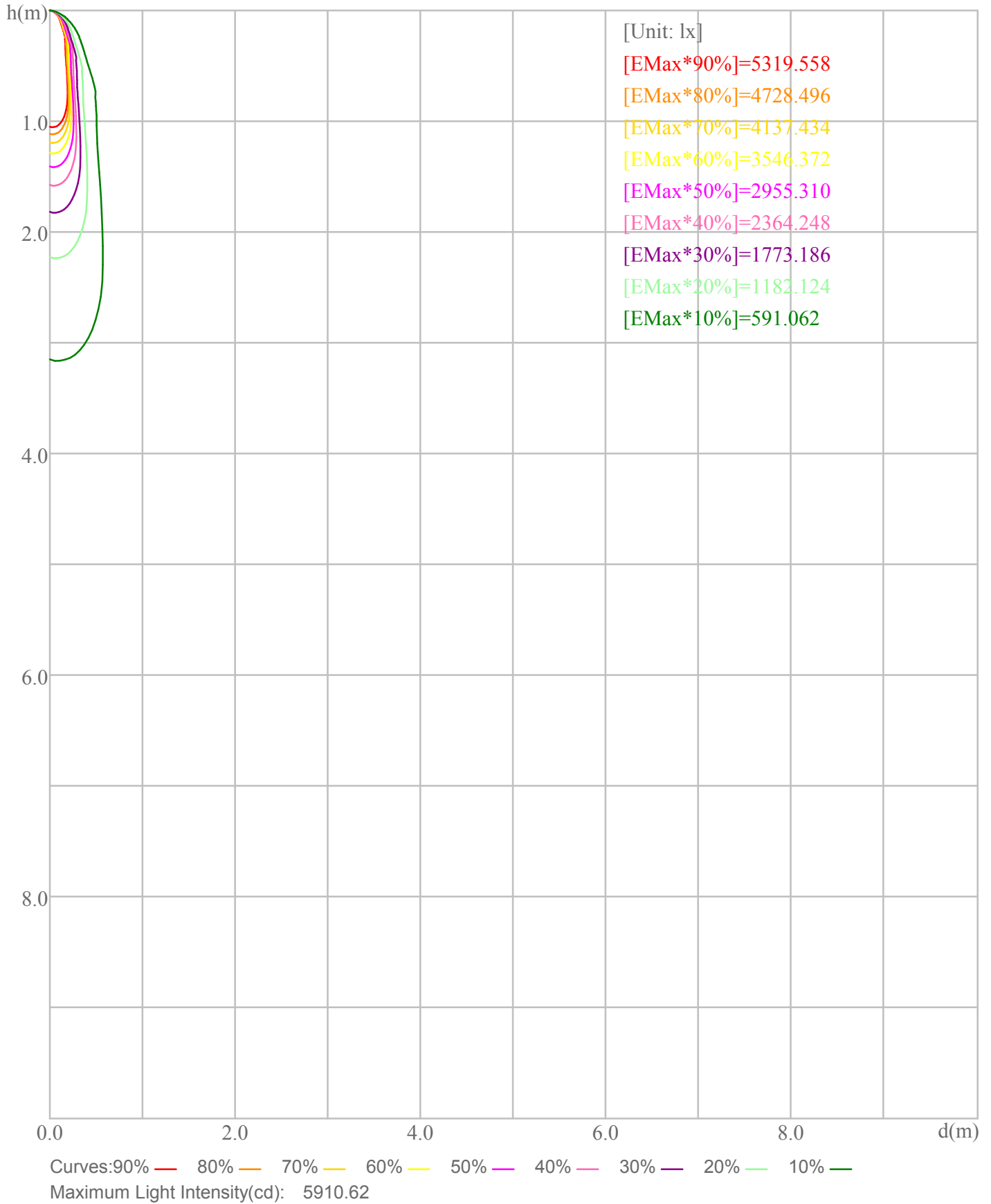
Curves: 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
 Maximum Illuminance(lx): 5910.62 Max. E Postion(d/H)0.0 V0.0
 Mount Height(m): 3.0

3D Plane ISO Illuminance Curve

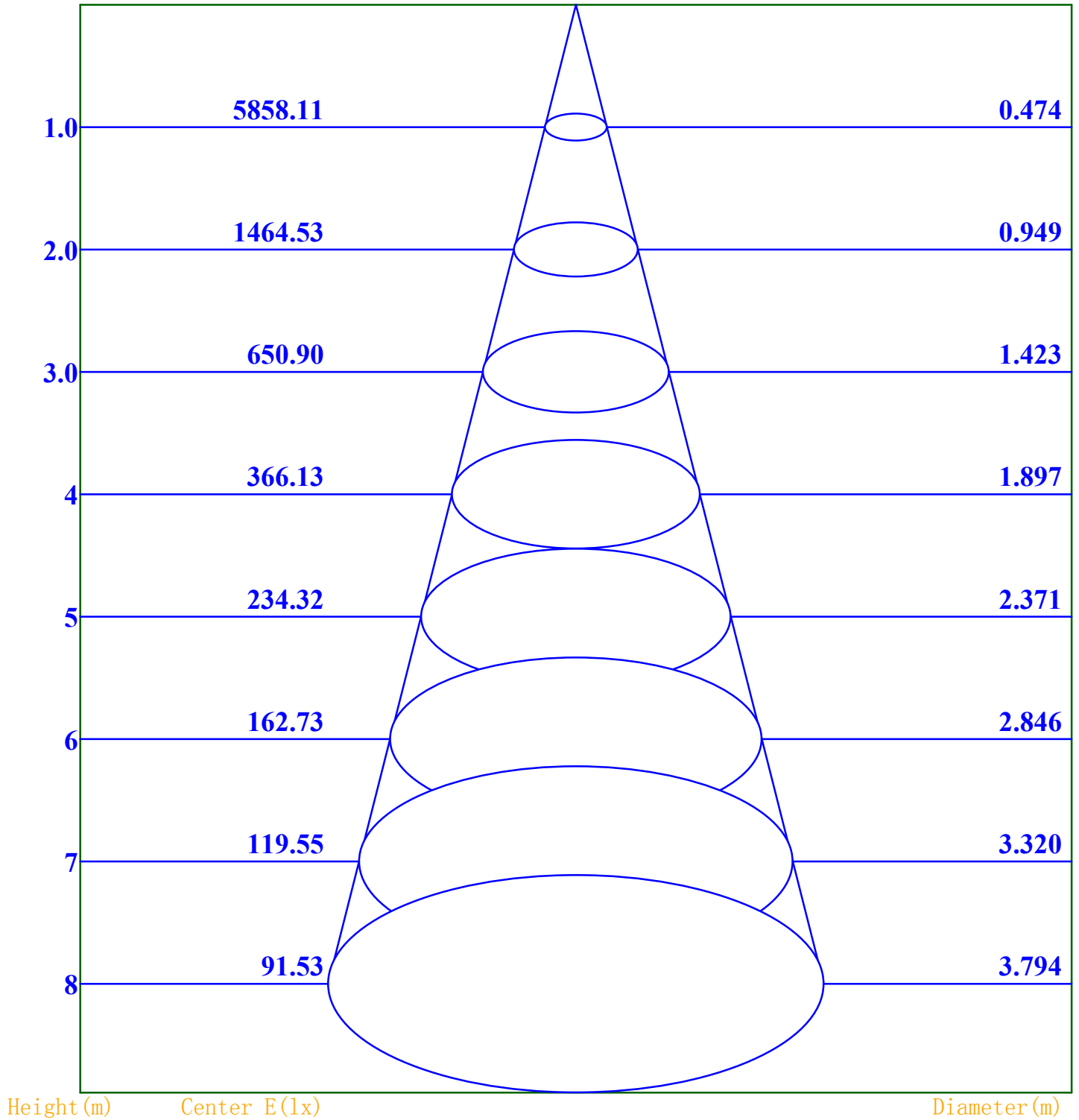


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Curve



Illuminance-Distance Curve



Beam Angle:26.7

Indoor Luminance Limiting Curve

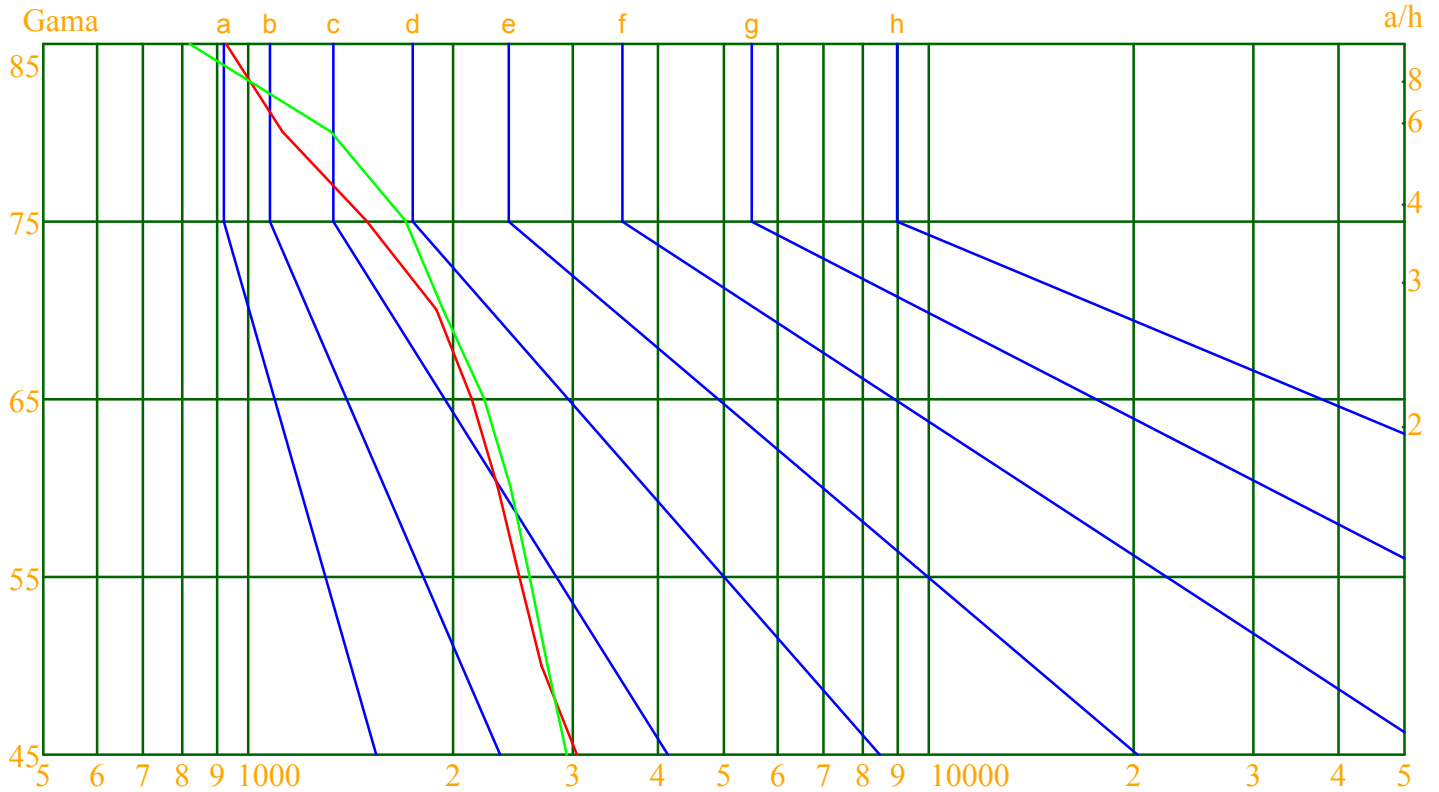
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Table

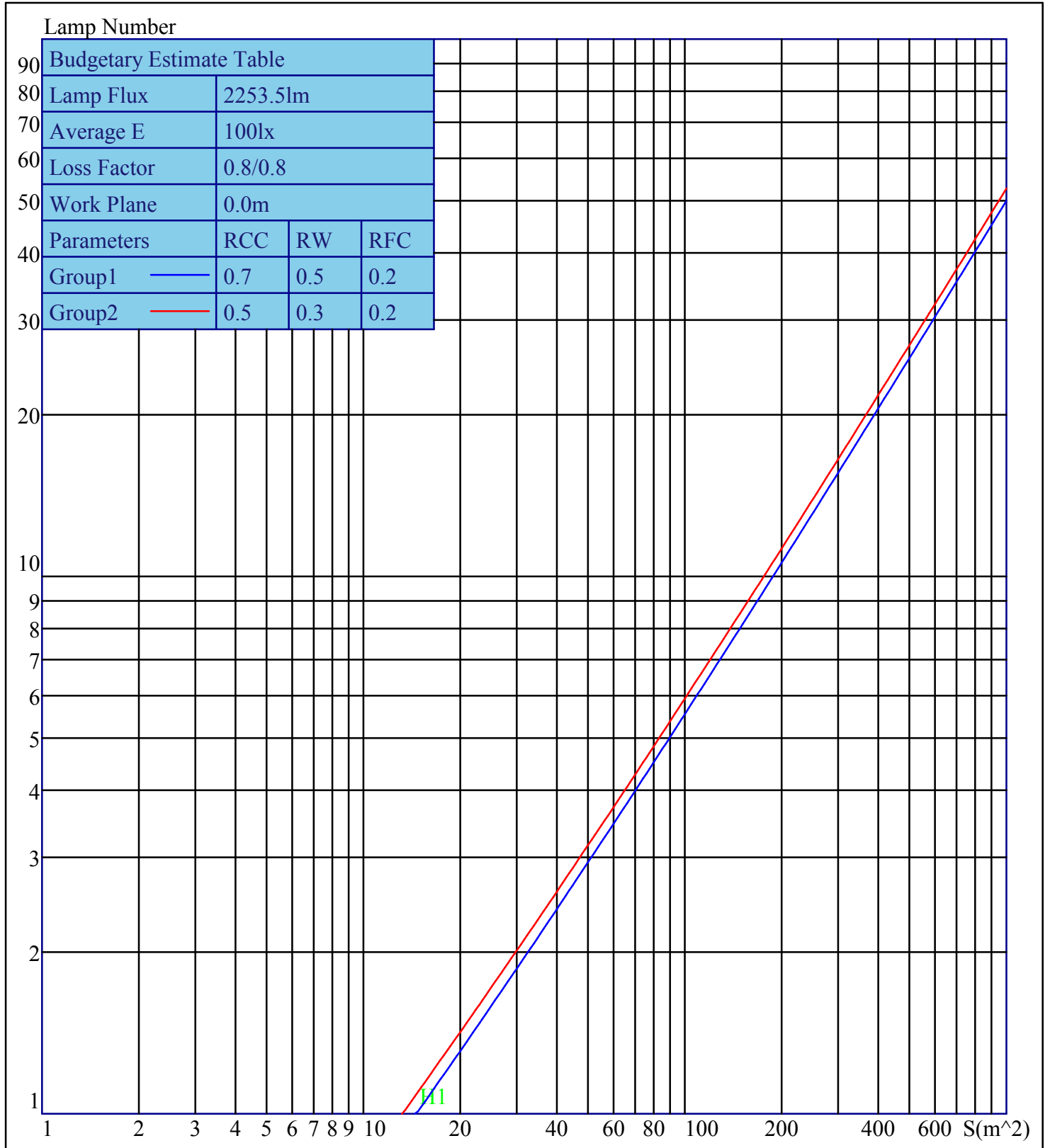
Gama(deg)	45	50	55	60	65	70	75	80	85
C0	7499	6261	5597	5022	4399	3679	2575	1682	1265
C90	7118	6461	5900	5358	4685	3804	3138	2150	1051

Luminance Limiting Curve



Luminous Size: Length(m)=0.960 Width(m)=0.045 Height(m)=0.000 Area(m^2)=0.043200
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

Indoor Coefficient of Utilization Table

Coefficients of Utilization - Zonal Cavity Method																		
Coefficient Effective Floor Cavity Reflectance RFC=0.20																		
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization (%)																	
0	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	71	69	67	66	69	68	66	65	65	64	63	63	62	61	61	60	59	58
2	67	64	61	59	66	63	60	58	61	59	57	59	57	56	57	56	55	54
3	64	60	56	54	62	59	56	53	57	54	52	55	53	52	54	52	51	50
4	61	56	52	49	59	55	52	49	54	51	49	52	50	48	51	49	47	46
5	58	52	49	46	57	52	48	46	51	48	45	50	47	45	49	46	45	44
6	55	49	46	43	54	49	46	43	48	45	43	47	44	42	46	44	42	41
7	53	47	43	41	52	47	43	41	46	43	40	45	42	40	44	42	40	39
8	50	45	41	39	50	44	41	38	44	41	38	43	40	38	42	40	38	37
9	48	43	39	37	48	42	39	37	42	39	36	41	38	36	41	38	36	35
10	47	41	37	35	46	41	37	35	40	37	35	40	37	35	39	37	35	34

Unified Glare Rating

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Room Size	Vewed crosswise					Vewed endwise					
X=2H	Y=2H	19.2	21.5	20.0	22.1	22.7	19.4	21.7	20.1	22.3	22.9
	Y=3H	21.1	23.4	21.8	24.0	24.6	21.6	23.9	22.3	24.5	25.1
	Y=4H	22.2	24.2	22.9	24.8	25.4	22.7	24.7	23.4	25.3	25.9
	Y=6H	22.5	24.5	23.2	25.1	25.7	23.1	25.0	23.8	25.6	26.2
	Y=8H	22.5	24.5	23.3	25.1	25.7	23.1	25.0	23.8	25.6	26.2
	Y=12H	22.5	24.4	23.2	25.0	25.6	23.0	25.0	23.7	25.6	26.2
X=4H	Y=2H	19.7	21.7	20.4	22.3	22.9	19.8	21.8	20.5	22.4	22.9
	Y=3H	21.7	23.7	22.4	24.3	24.9	22.1	24.1	22.9	24.7	25.3
	Y=4H	20.9	22.0	21.8	22.9	23.6	21.3	22.5	22.3	23.3	24.1
	Y=6H	21.4	22.4	22.3	23.3	24.1	21.8	22.9	22.8	23.7	24.5
	Y=8H	21.4	22.5	22.4	23.3	24.1	21.9	22.9	22.8	23.8	24.5
	Y=12H	20.5	21.3	21.5	22.3	23.1	20.9	21.8	22.0	22.7	23.6
X=8H	Y=4H	20.8	21.9	21.7	22.7	23.5	21.2	22.3	22.2	23.2	23.9
	Y=6H	20.4	21.2	21.5	22.2	23.0	20.9	21.7	21.9	22.6	23.5
	Y=8H	20.0	20.6	21.1	21.7	22.6	20.5	21.1	21.6	22.1	23.0
	Y=12H	20.0	20.6	21.1	21.6	22.6	20.4	21.0	21.5	22.1	23.0
X=12H	Y=4H	19.8	20.7	20.9	21.6	22.5	20.3	21.1	21.3	22.1	22.9
	Y=6H	19.9	20.5	21.0	21.5	22.5	20.3	21.0	21.4	22.0	22.9
	Y=8H	20.0	20.6	21.1	21.6	22.5	20.4	21.0	21.5	22.0	23.0
Variations with the objerver position at spacings											
	S=1.0H	1.7/-2.4					2.3/-2.6				
	S=1.5H	-2.4/-22.7					-2.6/-23.2				
	S=2.0H	-2.4/-22.7					-2.6/-23.2				