

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : 48W 120.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 20090114001  
[TESTLAB] MEGA SYSTEMS INC  
[TESTDATE] 2009-01-14  
[ISSUEDATE] 18-FEB-2001  
[LAMPPOSITION] 0,0  
[OTHER] EVERFINE GO-2000B SYSTEM  
[MANUFAC] MEGA SYSTEMS INC  
[LUMINAIRE] 4205-LEDWhite120x60  
[LAMP]1W\_LED

**CHARACTERISTICS**

IES NEMA Type	6 H x 5 V
Maximum Candela	2524.99
Maximum Candela Angle	-45H 0V
Horizontal Beam Angle (50%)	110.3
Vertical Beam Angle (50%)	43.1
Horizontal Field Angle (10%)	121.0
Vertical Field Angle (10%)	75.8
Total Rated Lamp Lumens	3600
Beam Lumens	1881.22
Beam Efficiency	52.26%
Field Lumens	2632.49
Field Efficiency	73.12%
Spill Lumens	290.30
Total Lumens	2922.79
Total Efficiency	81.19%
Total Luminaire Watts	59
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	.49	90	0
85	1.06	88	0
80	11.08	86	0
75	24.1	84	7.84
70	46.39	82	10.72
65	67.81	80	13.5
60	212.7	78	18.9
55	1126.82	76	24.07
50	2319.56	74	29.41
45	2498.27	72	34.1
40	2394.59	70	39.36
35	2284.39	68	45.25
30	2033.78	66	52.39
25	1768.9	64	57.46
20	1543	62	63.81
15	1415.92	60	69.02
10	1391.39	58	82.35
5	1378.87	56	95.13
0	1388.82	54	102.28
-5	1384.36	52	102.48
-10	1383.42	50	103.38
-15	1408.96	48	103.93
-20	1506.64	46	106.46
-25	1716.18	44	111.03
-30	1982.45	42	123.5
-35	2243.73	40	134.08
-40	2396.05	38	154.41
-45	2524.99	36	174.07
-50	2494.07	34	233.96
-55	1470.41	32	330.43
-60	308.57	30	431.74
-65	81.84	28	564.84
-70	49.01	26	702.02
-75	32.15	24	819.53
-80	14.15	22	918.32
-85	1.58	20	1017.37
-90	0	18	1104.46
		16	1191.04
		14	1258.41
		12	1305.2
		10	1352.26
		8	1367.17
		6	1381.19
		4	1389.27
		2	1388.23
		0	1388.82
		-2	1383.47
		-4	1379.16
		-6	1368.84
		-8	1354.16
		-10	1338.15
		-12	1290.42
		-14	1240.96
		-16	1171.39
		-18	1077.83
		-20	987.34
		-22	887.77
		-24	791.11
		-26	683.27

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AXIAL CANDELA - (Cont.)

DEG.	HOR.	DEG.	VERT.
		-28	567.59
		-30	450.3
		-32	343.55
		-34	235.52
		-36	172.08
		-38	151.97
		-40	132.59
		-42	118.6
		-44	104.97
		-46	98.11
		-48	97.46
		-50	97.02
		-52	97.64
		-54	98.19
		-56	92.06
		-58	79.23
		-60	66.25
		-62	59.65
		-64	52.76
		-66	46.65
		-68	40.97
		-70	35.11
		-72	30.72
		-74	26.06
		-76	21.13
		-78	15.83
		-80	10.54
		-82	7.42
		-84	4.34
		-86	0
		-88	0
		-90	0

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**CANDELA TABULATION**

Maximum Candela = 2524.99  
 Beam Edge = 1262.495 Cd (50% of Max.)  
 Field Edge = 252.499 Cd (10% of Max.)  
 \* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	5.58	6.43	6.99	7.16	7.25	7.44	7.64	7.85	8.10	8.33
82	5.58	6.49	7.08	7.56	7.98	8.45	8.94	9.59	10.38	11.36
80	5.49	6.26	6.98	7.76	8.58	9.34	10.04	11.12	12.24	13.76
78	5.40	6.39	7.45	8.68	9.81	11.01	12.31	14.28	20.60	26.67
76	5.18	6.15	7.52	9.08	10.59	12.19	14.07	16.62	23.87	40.46
74	5.23	6.26	7.92	10.01	11.99	14.14	16.59	22.12	39.57	50.22
72	4.97	5.80	7.53	9.94	12.42	15.12	18.18	24.24	48.75	62.28
70	4.86	5.87	7.94	10.92	14.03	17.29	20.98	35.20	67.25	70.08
68	4.64	5.58	7.85	11.69	15.30	19.21	26.89	42.37	71.88	79.88
66	4.60	6.02	8.93	13.41	18.24	22.81	39.20	60.71	84.61	84.18
64	4.19	5.41	8.29	14.04	19.27	24.24	39.13	63.45	84.87	94.40
62	4.19	5.53	8.74	15.84	22.55	28.14	48.30	67.40	90.37	100.35
60	3.88	4.81	7.63	15.08	23.13	28.74	48.29	63.95	86.02	107.44
58	3.84	5.27	9.41	19.10	27.20	37.84	55.23	72.61	97.38	117.64
56	3.70	4.80	8.86	18.34	28.35	41.41	56.17	73.11	98.18	123.48
54	3.53	5.19	10.55	21.80	31.72	49.01	61.17	79.86	106.90	133.46
52	3.21	4.23	8.34	18.27	31.50	46.82	58.75	74.90	101.81	132.60
50	3.03	4.31	9.27	20.31	34.93	51.23	61.52	78.84	108.62	143.62
48	2.77	3.86	8.74	19.68	35.45	51.87	62.94	79.38	109.54	146.53
46	2.67	4.48	11.70	24.49	42.09	58.21	69.42	89.44	124.39	165.44
44	2.41	3.66	9.73	22.21	38.69	56.44	68.48	86.19	120.72	166.72
42	2.21	3.83	11.02	23.93	41.48	58.00	71.03	90.65	130.88	187.05
40	1.92	2.85	8.03	20.30	35.33	53.39	67.98	84.54	121.42	184.42
38	1.58	3.11	10.63	23.00	40.43	57.24	73.99	99.17	150.67	246.30
36	0.74	1.99	8.67	20.92	38.06	54.11	72.98	100.64	152.05	266.58 *
34	1.01	2.89	11.98	24.57	42.22	59.33	84.25	125.65	199.39	374.09 *
32	1.03	1.96	10.37	23.84	41.65	57.31	86.61	136.89	216.06	426.13 *
30	1.01	3.61	14.55	30.07	46.09	64.44	106.05	174.61	285.73 *	594.36 *
28	0.85	1.74	10.38	25.12	43.57	58.90	97.27	175.07	298.17 *	595.81 *
26	0.31	2.68	12.87	27.94	45.92	63.09	114.45	216.60	386.51 *	773.72 *
24	0.00	1.32	9.65	25.34	44.58	60.34	111.97	234.68	447.12 *	835.45 *
22	0.30	2.77	14.04	32.07	49.75	71.76	159.18	353.07 *	690.32 *	1200.22 *
20	0.00	1.72	12.78	29.56	48.75	68.66	156.28	372.96 *	775.68 *	1331.93 *
18	0.52	2.58	14.50	32.86	51.20	76.04	190.91	506.05 *	1081.18 *	1636.32 *
16	0.52	1.12	11.01	26.22	47.64	65.42	154.01	469.72 *	1147.38 *	1733.19 *
14	0.72	2.16	14.06	30.95	50.04	77.12	225.49	731.55 *	1527.58 *	1982.85 *
12	0.68	1.10	12.12	28.95	48.75	72.84	212.53	792.38 *	1686.39 *	2086.28 *
10	0.75	2.93	15.92	37.20	52.13	91.75	343.89 *	1219.49 *	2082.39 *	2278.96 *
8	0.45	1.25	12.33	29.04	48.46	74.73	230.84	995.22 *	2075.67 *	2335.59 *
6	0.19	2.10	14.07	32.06	50.10	82.32	292.08 *	1262.28 *	2281.13 *	2414.74 *
4	0.06	1.40	11.70	26.90	47.09	71.84	221.11	1094.88 *	2269.61 *	2470.42 *
2	0.22	2.58	15.28	34.86	51.12	89.99	378.83 *	1568.04 *	2460.61 *	2475.63 *
0	0.00	1.58	14.15	32.15	49.01	81.84	308.57 *	1470.41 *	2494.07 *	2524.99 *
-2	0.51	2.32	14.96	34.63	50.88	89.86	379.84 *	1606.71 *	2499.18 *	2486.67 *
-4	0.31	0.83	11.26	26.53	46.91	71.34	220.04	1151.92 *	2347.87 *	2503.86 *
-6	0.62	1.52	13.35	31.23	49.45	81.75	297.05 *	1371.8 *	2387.96 *	2444.19 *
-8	0.19	1.30	11.88	28.21	47.30	73.28	231.51	1107.02 *	2210.97 *	2387.37 *
-10	0.00	2.66	15.43	35.35	51.23	90.20	358.66 *	1380.38 *	2230.82 *	2315.8 *
-12	0.10	1.37	11.53	27.66	46.81	71.23	212.95	914.12 *	1866.84 *	2174.38 *
-14	0.53	1.45	13.27	29.43	48.52	75.90	230.92	860.58 *	1731.56 *	2073.73 *
-16	0.33	0.84	10.25	24.53	45.51	64.26	153.46	557.49 *	1343.5 *	1861.41 *

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**CANDELA TABULATION - (Cont.)**

-18	0.43	1.85	14.27	30.96	48.90	74.54	199.82	593.39 *	1258.58 *	1730.43 *
-20	0.69	0.89	12.62	27.74	46.92	67.03	161.22	427.27 *	913.54 *	1442.6 *
-22	0.40	1.85	13.68	29.95	47.67	70.21	168.53	399.56 *	802.85 *	1270.97 *
-24	0.57	0.69	8.90	23.38	43.11	59.24	113.92	259.86 *	510.40 *	900.57 *
-26	0.48	1.27	11.56	25.84	44.80	61.12	117.73	232.96	432.32 *	814.71 *
-28	0.27	0.89	9.02	23.27	42.36	56.78	96.78	184.91	322.05 *	619.86 *
-30	0.12	1.79	12.79	27.52	44.89	59.60	105.64	180.58	291.91 *	615.22 *
-32	0.17	1.10	9.62	23.17	41.20	54.54	86.07	143.87	228.98	446.38 *
-34	0.31	1.83	12.23	25.54	42.40	55.78	86.89	136.28	215.43	420.01 *
-36	0.32	1.05	8.63	20.97	37.47	50.48	72.20	107.87	163.98	302.03 *
-38	0.33	1.34	9.26	21.48	37.10	50.90	70.68	99.53	152.86	269.29 *
-40	0.37	0.61	5.33	16.71	30.30	45.58	59.69	77.69	112.17	184.70
-42	0.29	1.10	7.83	19.49	34.50	48.95	61.71	79.73	119.16	185.11
-44	0.26	0.82	6.18	17.58	31.01	47.07	58.29	72.48	105.01	157.41
-46	0.26	1.13	7.75	19.11	33.81	48.88	58.50	73.76	108.23	154.10
-48	0.27	0.67	4.53	14.83	27.49	43.95	54.30	66.14	93.17	132.06
-50	0.28	0.74	4.67	15.19	27.95	44.51	53.34	66.06	92.97	127.52
-52	0.30	0.59	3.52	12.78	25.02	39.56	50.29	62.48	86.37	118.17
-54	0.27	0.89	5.10	14.83	26.47	41.05	50.84	65.82	92.00	122.84
-56	0.28	0.61	3.49	11.68	23.47	33.62	46.31	60.36	83.33	111.96
-58	0.28	0.70	3.61	11.51	21.64	30.49	45.76	60.48	82.51	108.53
-60	0.23	0.42	1.97	7.68	17.33	22.32	39.96	53.70	71.70	96.25
-62	0.29	0.60	2.55	9.26	16.59	21.41	39.58	56.76	76.28	94.76
-64	0.29	0.47	1.97	7.49	13.06	17.70	30.83	53.18	71.63	89.58
-66	0.29	0.63	2.33	8.11	12.18	16.05	30.68	50.84	73.07	84.35
-68	0.31	0.44	1.44	4.88	8.62	12.42	19.49	34.00	62.70	78.77
-70	0.28	0.44	1.42	4.04	7.02	10.29	14.29	28.44	60.58	72.84
-72	0.28	0.41	1.03	2.81	5.45	8.25	11.47	17.36	41.52	65.29
-74	0.32	0.51	1.24	2.93	5.02	7.32	10.01	15.52	30.35	57.64
-76	0.25	0.41	0.85	2.03	3.60	5.44	7.55	10.16	16.25	45.22
-78	0.38	0.42	0.82	1.78	2.99	4.38	5.95	8.12	13.34	27.54
-80	0.39	0.41	0.50	1.04	1.76	2.72	3.78	5.00	6.65	9.18
-82	0.40	0.38	0.52	0.97	1.51	2.20	2.89	3.83	5.00	6.88
-84	0.40	0.40	0.44	0.63	0.96	1.42	1.80	2.19	2.83	3.52
-86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<u>-40</u>	<u>-35</u>	<u>-30</u>	<u>-25</u>	<u>-20</u>	<u>-15</u>	<u>-10</u>	<u>-5</u>	<u>0</u>	<u>5</u>
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	8.74	8.52	8.24	8.20	8.61	9.97	8.38	7.99	7.84	7.80
82	12.20	11.62	11.25	11.18	13.43	15.70	11.53	10.79	10.72	11.04
80	15.72	14.97	14.35	14.07	16.45	22.75	15.67	13.82	13.50	13.89
78	22.35	20.57	19.28	19.82	36.55	29.97	20.81	18.90	18.90	20.84
76	30.20	26.66	24.79	24.41	48.85	42.97	28.49	24.48	24.07	26.44
74	36.29	32.99	30.48	31.45	64.76	45.04	33.26	29.39	29.41	33.62
72	46.36	40.97	38.42	37.10	58.46	54.69	42.94	35.40	34.10	37.62
70	52.27	47.94	45.03	44.07	65.76	55.86	47.47	39.91	39.36	44.44
68	62.53	58.02	53.31	52.64	66.48	61.93	56.63	46.84	45.25	50.97
66	68.41	66.88	60.04	63.01	72.20	65.66	60.33	51.73	52.39	60.58
64	80.30	77.91	69.75	68.62	77.51	68.01	67.40	58.58	57.46	64.72
62	90.54	89.43	78.38	74.86	76.17	73.24	69.02	63.52	63.81	69.32
60	104.41	100.71	90.23	79.67	79.53	75.57	73.34	69.90	69.02	71.80
58	114.81	111.67	95.93	84.14	86.74	88.52	83.42	81.88	82.35	83.91
56	127.85	123.50	108.30	89.45	93.76	101.31	94.53	94.36	95.13	95.43
54	139.21	134.61	116.75	99.33	104.90	107.99	101.15	101.26	102.28	102.37
52	150.84	151.00	139.06	117.13	114.76	112.74	105.06	102.96	102.48	104.33

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**CANDELA TABULATION - (Cont.)**

50	163.63	164.21	153.01	132.88	123.51	114.67	107.65	103.99	103.38	107.49
48	175.43	176.71	164.70	142.65	131.62	135.23	115.61	106.05	103.93	111.72
46	190.47	185.39	170.08	146.31	140.94	149.36	118.70	105.47	106.46	120.41
44	205.47	204.93	186.32	163.48	148.59	161.17	128.72	113.69	111.03	123.34
42	231.50	223.66	200.65	175.17	163.45	151.35	131.19	123.58	123.50	132.39
40	246.62	250.74	223.92	194.58	185.02	149.94	138.75	135.67	134.08	137.52
38	322.33 *	318.54 *	271.68 *	228.25	198.53	171.68	158.97	155.18	154.41	159.37
36	378.51 *	397.70 *	338.63 *	274.40 *	229.32	199.60	182.96	175.18	174.07	178.95
34	514.93 *	530.75 *	462.24 *	375.38 *	298.85 *	261.20 *	238.20	232.01	233.96	243.64
32	673.66 *	735.42 *	698.75 *	589.58 *	452.10 *	374.01 *	337.42 *	326.61 *	330.43 *	344.76 *
30	877.69 *	942.20 *	903.56 *	747.45 *	562.27 *	470.61 *	427.39 *	420.67 *	431.74 *	453.90 *
28	1030.9 *	1163.74 *	1068.01 *	923.91 *	728.53 *	611.45 *	566.76 *	559.20 *	564.84 *	575.91 *
26	1302.46 *	1356.94 *	1188.16 *	1021.69 *	832.09 *	728.56 *	697.54 *	697.53 *	702.02 *	704.34 *
24	1430.43 *	1613.93 *	1371.55 *	1180.9 *	974.69 *	850.93 *	814.40 *	815.08 *	819.53 *	816.41 *
22	1774.56 *	1781.23 *	1480.5 *	1233.35 *	1028.68 *	930.66 *	907.08 *	913.17 *	918.32 *	914.61 *
20	1933.79 *	2048.71 *	1695.96 *	1383.72 *	1147.55 *	1032.21 *	1002.6 *	1009.33 *	1017.37 *	1013.32 *
18	2140.66 *	2124.19 *	1753.28 *	1448.82 *	1220.3 *	1114.4 *	1087.75 *	1096.61 *	1104.46 *	1098.53 *
16	2185.15 *	2306.64 *	1949.45 *	1628.33 *	1364.75 *	1219.95 *	1176.99 *	1179.99 *	1191.04 *	1185.55 *
14	2346.41 *	2307.01 *	1946.36 *	1638.08 *	1394.01 *	1275.9 *	1241.23 *	1250.01 *	1258.41 *	1249.99 *
12	2352.66 *	2343.66 *	2020.19 *	1713.04 *	1460.97 *	1332.95 *	1293.05 *	1297.04 *	1305.2 *	1298.1 *
10	2436.48 *	2262.99 *	1966.77 *	1674.74 *	1455.68 *	1369.93 *	1339.07 *	1348.67 *	1352.26 *	1342.87 *
8	2419.43 *	2330.64 *	2042.81 *	1756.05 *	1515.41 *	1394.37 *	1359.89 *	1360.63 *	1367.17 *	1359.45 *
6	2417.92 *	2288.96 *	2007.95 *	1729.91 *	1506.6 *	1402.32 *	1372.39 *	1376.61 *	1381.19 *	1372.23 *
4	2411.15 *	2319.62 *	2051.99 *	1780.83 *	1545.45 *	1418.13 *	1386.83 *	1382.17 *	1389.27 *	1381.35 *
2	2393.57 *	2233.75 *	1966.1 *	1696.68 *	1494.08 *	1407.95 *	1380.17 *	1385.19 *	1388.23 *	1378.18 *
0	2396.05 *	2243.73 *	1982.45 *	1716.18 *	1506.64 *	1408.96 *	1383.42 *	1384.36 *	1388.82 *	1378.87 *
-2	2386.32 *	2220.21 *	1956.49 *	1690.6 *	1490.68 *	1404.37 *	1377.12 *	1380.78 *	1383.47 *	1373.17 *
-4	2404.68 *	2293.25 *	2031.52 *	1768.04 *	1536.5 *	1411.45 *	1381.23 *	1373.25 *	1379.16 *	1371.56 *
-6	2393.75 *	2256.03 *	1985.14 *	1717.09 *	1500.42 *	1394.82 *	1365.24 *	1365.41 *	1368.84 *	1358.8 *
-8	2392.72 *	2296.7 *	2019.5 *	1746.53 *	1512.78 *	1390.62 *	1355.41 *	1349.58 *	1354.16 *	1344.73 *
-10	2388.14 *	2233.7 *	1948.8 *	1671.48 *	1458.73 *	1368.28 *	1333.81 *	1336.78 *	1338.15 *	1325.86 *
-12	2325.56 *	2307.66 *	2008.2 *	1717.82 *	1470.76 *	1336.98 *	1292.84 *	1286.55 *	1290.42 *	1279.47 *
-14	2312.54 *	2276.96 *	1948.6 *	1655.23 *	1410.11 *	1284.39 *	1239.66 *	1239.46 *	1240.96 *	1227.46 *
-16	2179.49 *	2287.44 *	1963.42 *	1653.67 *	1386.35 *	1230.09 *	1177.91 *	1168.12 *	1171.39 *	1160.56 *
-18	2130.52 *	2152.24 *	1787.65 *	1485.31 *	1242.24 *	1120.55 *	1079.84 *	1079.85 *	1077.83 *	1065.73 *
-20	1941.65 *	2105.05 *	1755.03 *	1431.39 *	1176.06 *	1038.6 *	992.49 *	989.02 *	987.34 *	976.52 *
-22	1798.87 *	1921.52 *	1557.03 *	1276.43 *	1048.8 *	931.01 *	892.48 *	890.76 *	887.77 *	879.25 *
-24	1469.88 *	1796.41 *	1505.69 *	1225.65 *	996.96 *	852.53 *	800.28 *	791.35 *	791.11 *	785.35 *
-26	1378.83 *	1578.08 *	1290.53 *	1067.42 *	859.23 *	739.10 *	695.66 *	686.31 *	683.27 *	679.27 *
-28	1134.35 *	1321.11 *	1169.16 *	983.72 *	782.76 *	652.55 *	598.24 *	576.01 *	567.59 *	564.50 *
-30	1036.05 *	1046.5 *	964.65 *	821.25 *	638.78 *	537.22 *	487.45 *	461.92 *	450.30 *	449.73 *
-32	787.30 *	845.24 *	785.44 *	657.19 *	507.06 *	416.46 *	376.47 *	354.37 *	343.55 *	343.56 *
-34	605.93 *	633.52 *	561.37 *	432.30 *	327.11 *	276.22 *	253.17 *	241.96	235.52	238.51
-36	439.70 *	478.54 *	436.59 *	328.70 *	247.60	204.42	186.91	177.50	172.08	174.84
-38	362.88 *	373.99 *	328.13 *	257.44 *	208.34	177.62	162.31	156.16	151.97	154.74
-40	261.22 *	274.36 *	246.73	211.89	186.35	158.97	143.33	136.13	132.59	133.35
-42	242.01	238.61	214.81	187.16	167.17	153.24	132.95	123.03	118.60	123.88
-44	207.41	209.50	193.84	172.71	152.39	155.77	128.60	112.94	104.97	111.24
-46	187.86	185.92	171.98	154.50	140.74	141.97	117.64	103.15	98.11	106.84
-48	169.16	174.56	164.43	148.33	130.65	127.99	112.77	102.80	97.46	101.86
-50	154.40	162.21	150.98	135.06	118.71	109.73	103.45	99.09	97.02	99.99
-52	142.92	148.51	139.17	120.59	110.43	107.61	101.90	99.24	97.64	98.88
-54	133.90	133.94	121.73	99.10	99.97	106.79	98.08	98.74	98.19	98.18
-56	123.10	121.88	112.55	90.59	89.77	97.57	92.33	92.35	92.06	92.15
-58	112.16	108.78	99.54	81.67	83.28	85.43	81.25	80.17	79.23	80.05
-60	102.07	96.79	92.95	78.71	75.52	71.75	70.69	68.79	66.25	67.68
-62	89.43	86.19	79.30	70.44	73.93	67.05	68.14	61.86	59.65	63.63
-64	80.51	75.11	71.34	64.63	72.22	62.29	66.38	57.63	52.76	57.11
-66	68.20	65.48	59.81	57.91	67.84	60.39	61.16	50.16	46.65	52.87
-68	64.62	55.63	53.08	49.50	56.08	63.28	56.71	46.40	40.97	43.81
-70	53.17	45.78	43.77	41.47	51.56	61.58	49.90	39.19	35.11	37.67

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : 48W 120.IES**

**CANDELA TABULATION - (Cont.)**

-72	49.03	38.78	36.79	34.31	42.21	63.44	44.41	34.40	30.72	31.85
-74	36.76	30.77	28.39	26.97	47.26	55.29	35.40	27.36	26.06	27.56
-76	31.44	24.45	22.43	20.64	31.75	52.76	31.18	22.15	21.13	21.76
-78	20.85	17.84	16.53	15.64	26.46	35.74	21.96	16.41	15.83	16.47
-80	12.65	12.03	11.31	10.62	11.85	22.48	17.66	11.35	10.54	10.51
-82	8.77	8.06	7.75	7.35	9.15	15.52	10.41	7.76	7.42	7.56
-84	4.51	4.45	4.32	4.15	4.63	6.99	5.88	4.51	4.34	4.34
-86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	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>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>50</u>	<u>55</u>
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	8.50	9.53	8.00	7.75	7.92	8.12	8.25	8.00	7.82	7.68
82	13.59	15.42	10.93	10.58	10.82	11.24	11.13	10.22	9.48	8.95
80	17.05	22.41	14.68	13.41	13.52	14.15	14.28	12.76	11.42	10.44
78	29.29	37.76	19.09	18.40	19.50	21.20	26.42	18.77	13.99	12.20
76	36.23	57.62	25.92	23.28	25.13	27.16	36.78	30.15	17.62	14.59
74	47.20	63.18	30.61	29.48	31.98	34.88	48.25	37.04	25.06	16.76
72	48.07	64.70	42.20	36.33	38.77	40.76	51.20	57.56	43.14	21.26
70	53.35	67.33	46.18	43.54	46.67	48.32	61.39	72.41	52.41	23.19
68	58.58	66.49	57.68	51.42	56.07	57.09	68.10	80.47	63.71	34.99
66	63.48	73.59	61.86	60.07	67.09	67.37	83.37	85.26	63.82	39.52
64	68.61	71.89	69.72	66.75	75.97	77.01	88.85	94.48	72.99	52.37
62	71.14	75.66	73.49	75.73	87.89	88.87	100.03	96.38	73.29	52.73
60	73.91	75.87	78.93	79.84	94.74	100.13	105.52	105.31	82.51	62.06
58	87.46	85.81	84.19	95.03	111.16	112.90	116.89	103.57	78.82	60.01
56	98.75	97.15	90.50	100.58	121.51	125.77	126.91	110.48	85.09	64.18
54	107.88	103.80	99.90	118.70	136.25	139.08	136.25	110.06	83.32	63.66
52	108.78	110.60	113.50	125.25	145.90	153.24	148.59	123.59	94.47	70.68
50	112.09	116.87	129.42	143.74	159.76	166.58	157.20	124.48	94.55	71.05
48	123.71	134.86	135.01	152.72	170.23	180.30	168.55	134.25	100.28	74.99
46	142.03	149.30	147.75	170.02	185.78	193.25	170.27	129.08	94.06	72.30
44	142.33	161.40	154.66	180.62	198.73	213.01	197.12	148.90	105.55	78.28
42	146.39	158.16	175.43	197.49	223.29	241.35	216.70	158.43	108.10	79.81
40	142.47	154.60	184.61	205.36	237.57	265.72 *	256.98 *	190.84	126.74	89.39
38	168.83	183.91	220.79	271.35 *	337.74 *	360.06 *	317.04 *	215.53	137.00	94.45
36	190.57	205.23	240.24	310.76 *	414.27 *	453.48 *	407.71 *	283.50 *	169.31	112.72
34	265.13 *	295.46 *	364.24 *	472.73 *	583.80 *	601.66 *	489.53 *	290.90 *	177.95	114.60
32	376.27 *	426.44 *	533.73 *	670.87 *	779.79 *	813.61 *	683.38 *	372.39 *	219.61	137.65
30	503.22 *	590.22 *	758.27 *	918.75 *	1005.29 *	1021.47 *	750.09 *	362.55 *	225.00	136.17
28	603.77 *	663.76 *	808.88 *	1001.47 *	1156.88 *	1305.1 *	1079.71 *	588.63 *	336.92 *	193.42
26	720.52 *	780.64 *	936.77 *	1149.66 *	1377.64 *	1590.25 *	1201.52 *	674.32 *	380.42 *	207.77
24	821.92 *	866.01 *	1005.29 *	1238.05 *	1503.89 *	1818.46 *	1516.8 *	948.49 *	539.94 *	276.81 *
22	928.40 *	997.78 *	1177.7 *	1441.72 *	1788.75 *	1986.13 *	1568.36 *	1049.04 *	586.21 *	267.32 *
20	1024.24 *	1085.25 *	1258.36 *	1535.72 *	1914.78 *	2175.68 *	1839.12 *	1353.42 *	806.74 *	352.18 *
18	1112.82 *	1183.06 *	1369.00 *	1654.86 *	2025.9 *	2243.87 *	1938.43 *	1540.65 *	997.24 *	405.67 *
16	1188.08 *	1236.54 *	1383.65 *	1649.62 *	1975.62 *	2305.88 *	2212.19 *	1893.29 *	1443.26 *	643.44 *
14	1261.54 *	1317.47 *	1487.27 *	1765.45 *	2082.52 *	2378.94 *	2261.13 *	2044.87 *	1515.37 *	584.36 *
12	1306.32 *	1349.92 *	1498.1 *	1755.81 *	2054.54 *	2355.13 *	2341.53 *	2200.39 *	1824.81 *	780.82 *
10	1364.14 *	1421.56 *	1597.73 *	1866.28 *	2158.15 *	2387.49 *	2347.37 *	2299.22 *	1789.42 *	635.62 *
8	1368.17 *	1402.96 *	1542.35 *	1781.76 *	2060.24 *	2328.54 *	2373.25 *	2377.87 *	2138.46 *	1030.49 *
6	1384.51 *	1419.98 *	1566.62 *	1809.53 *	2077.64 *	2323.66 *	2390.32 *	2448.28 *	2175.32 *	971.31 *
4	1385.22 *	1408.74 *	1529.08 *	1748.15 *	2010.83 *	2274.43 *	2386.72 *	2477.23 *	2373.13 *	1297.72 *
2	1393.29 *	1428.19 *	1571.13 *	1811.64 *	2076.99 *	2312.03 *	2413.3 *	2499.84 *	2203.27 *	934.93 *
0	1391.39 *	1415.92 *	1543.00 *	1768.9 *	2033.78 *	2284.39 *	2394.59 *	2498.27 *	2319.56 *	1126.82 *
-2	1387.85 *	1421.93 *	1563.98 *	1806.53 *	2074.51 *	2313.7 *	2398.81 *	2454.98 *	2144.24 *	921.50 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : 48W 120.IES**

**CANDELA TABULATION - (Cont.)**

-4	1374.16 *	1396.96 *	1511.8 *	1737.97 *	2004.9 *	2275.64 *	2368.22 *	2401.64 *	2256.69 *	1250.79 *
-6	1369.22 *	1401.2 *	1544.77 *	1791.41 *	2065.15 *	2322.49 *	2343.65 *	2313.14 *	2010.43 *	939.05 *
-8	1349.34 *	1380.19 *	1511.36 *	1753.24 *	2034.53 *	2314.63 *	2322.58 *	2218.62 *	1926.99 *	969.01 *
-10	1342.11 *	1390.21 *	1559.92 *	1826.87 *	2120.55 *	2364.89 *	2258.96 *	2072.2 *	1555.29 *	608.54 *
-12	1280.5 *	1316.16 *	1452.72 *	1703.59 *	1999.31 *	2310.3 *	2253.42 *	1971.47 *	1527.05 *	687.29 *
-14	1230.17 *	1274.95 *	1430.37 *	1698.00 *	2009.68 *	2311.69 *	2139.79 *	1753.62 *	1195.05 *	501.49 *
-16	1153.07 *	1188.98 *	1317.56 *	1567.37 *	1878.12 *	2213.39 *	2088.24 *	1620.89 *	1109.66 *	518.40 *
-18	1067.76 *	1119.76 *	1280.47 *	1549.23 *	1893.13 *	2119.22 *	1783.17 *	1241.84 *	746.07 *	337.59 *
-20	974.30 *	1016.4 *	1158.18 *	1412.38 *	1752.05 *	2016.39 *	1686.25 *	1066.08 *	583.82 *	282.00 *
-22	881.87 *	931.35 *	1081.29 *	1320.72 *	1604.67 *	1789.7 *	1431.86 *	827.70 *	433.15 *	221.33
-24	783.39 *	812.30 *	925.34 *	1127.48 *	1330.52 *	1555.22 *	1405.19 *	807.50 *	406.94 *	222.50
-26	685.05 *	726.71 *	854.30 *	1043.05 *	1190.11 *	1352.95 *	1125.05 *	579.16 *	295.77 *	170.88
-28	575.32 *	613.94 *	729.66 *	909.02 *	1031.1 *	1104.92 *	987.93 *	537.40 *	268.22 *	160.57
-30	475.41 *	533.13 *	671.35 *	837.21 *	907.39 *	866.42 *	698.31 *	341.23 *	188.11	118.07
-32	358.28 *	391.89 *	478.00 *	606.09 *	689.12 *	698.18 *	607.69 *	343.97 *	180.62	115.27
-34	251.49	274.92 *	333.07 *	417.59 *	488.36 *	511.85 *	433.22 *	252.40	142.28	93.81
-36	181.86	194.30	225.00	276.16 *	337.86 *	385.01 *	355.85 *	244.82	139.78	91.80
-38	161.28	173.92	207.37	238.03	281.53 *	311.72 *	287.32 *	196.58	120.04	80.64
-40	137.07	146.87	173.05	185.08	208.66	232.78	242.00	186.97	123.98	81.48
-42	137.52	148.47	162.42	177.40	198.83	218.21	210.25	157.74	105.67	72.35
-44	129.87	152.69	139.23	163.83	180.36	197.34	193.35	150.67	106.26	73.33
-46	129.53	139.64	132.94	154.63	170.96	182.90	169.68	131.96	94.74	66.83
-48	112.61	127.62	122.68	139.12	157.42	168.75	164.20	137.51	100.76	71.22
-50	103.22	111.25	120.20	128.65	147.41	156.75	151.32	127.44	94.13	66.09
-52	100.65	106.63	104.76	111.24	133.74	142.32	141.48	126.14	94.85	67.64
-54	100.12	100.31	91.12	100.42	122.84	129.50	129.68	111.57	84.37	59.91
-56	92.86	95.41	83.42	85.64	108.03	116.64	118.12	110.76	86.79	62.09
-58	82.71	81.10	77.89	81.43	97.90	105.00	106.65	103.41	81.20	57.64
-60	71.69	70.42	73.11	72.97	83.80	93.54	93.01	101.12	85.78	61.06
-62	68.90	66.83	70.11	67.88	76.60	81.88	85.79	95.20	75.71	52.87
-64	65.35	62.21	68.97	62.37	66.02	71.23	73.44	89.67	75.59	53.12
-66	61.29	60.80	62.68	55.41	58.93	60.32	66.94	83.07	66.39	41.08
-68	52.03	55.68	64.33	47.45	48.85	51.43	54.03	72.98	67.25	36.36
-70	47.19	56.43	55.79	39.18	40.86	42.15	46.25	67.13	59.11	19.75
-72	39.51	54.75	54.41	32.27	33.28	34.88	38.27	54.55	44.19	19.71
-74	37.76	62.62	37.11	25.10	26.71	28.16	34.78	43.73	22.61	10.98
-76	28.38	50.31	37.69	19.35	20.03	21.36	25.31	34.25	13.54	8.48
-78	21.90	38.62	21.10	14.35	14.98	15.69	18.72	19.81	8.79	5.94
-80	12.02	20.17	15.90	9.74	9.50	9.73	10.01	8.27	6.09	4.37
-82	8.88	14.06	9.08	6.60	6.52	6.61	6.61	5.26	3.89	2.86
-84	4.66	6.28	5.15	3.70	3.51	3.50	3.38	2.87	2.26	1.78
-86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	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>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	7.57	7.48	7.48	7.46	7.26	6.75	5.95
82	8.47	8.24	8.17	7.88	7.35	6.73	5.94
80	9.61	9.12	8.82	8.49	7.67	6.98	5.98
78	10.93	10.08	9.38	8.59	7.60	6.70	5.81
76	12.78	11.32	10.21	9.08	7.95	6.76	5.78
74	14.38	12.49	10.85	9.26	7.77	6.47	5.58
72	17.31	14.65	12.42	10.17	8.32	6.74	5.60
70	19.10	16.04	13.12	10.26	8.20	6.47	5.25
68	22.31	18.38	14.61	11.13	8.32	6.48	5.35
66	23.80	19.56	15.04	10.60	7.73	5.91	5.15

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : 48W 120.IES**

**CANDELA TABULATION - (Cont.)**

64	30.27	22.85	17.68	12.37	8.19	6.08	5.04
62	35.57	25.32	19.68	12.48	7.93	5.74	4.82
60	47.05	29.52	24.31	15.42	8.88	6.11	4.72
58	45.62	30.28	22.88	13.54	7.78	5.39	4.47
56	51.23	33.98	26.15	15.09	8.23	5.47	4.30
54	51.91	35.54	24.84	14.01	7.50	4.83	4.14
52	57.42	44.02	30.59	17.45	9.06	5.13	3.92
50	59.11	46.28	30.15	16.74	8.45	4.63	3.69
48	62.27	50.10	32.19	18.62	9.16	4.63	3.53
46	61.43	46.62	28.30	15.87	7.22	3.90	3.36
44	65.39	50.90	31.75	18.66	8.80	4.04	3.12
42	64.43	48.75	30.68	17.77	8.06	3.62	2.90
40	69.29	53.32	36.27	21.65	10.71	4.02	2.71
38	68.09	50.55	34.08	19.20	8.79	3.31	2.44
36	75.86	54.61	39.33	22.04	10.64	3.60	1.78
34	71.66	51.09	36.11	19.05	8.36	2.70	2.22
32	81.28	53.81	39.84	21.90	9.70	2.46	1.59
30	73.59	50.60	35.21	18.33	6.93	1.75	2.55
28	99.07	56.06	42.13	22.97	9.99	1.91	1.36
26	97.16	55.16	40.96	21.32	8.86	1.71	0.89
24	122.60	60.10	45.33	24.47	11.03	2.08	1.09
22	102.99	55.59	40.94	21.13	8.17	1.45	0.92
20	125.06	58.38	43.35	23.21	9.74	1.94	1.49
18	121.90	57.68	41.48	21.78	8.62	1.42	0.71
16	182.31	67.35	46.29	26.99	12.09	2.19	0.78
14	146.96	60.74	43.32	23.16	9.95	1.51	0.15
12	183.19	65.91	45.82	25.52	11.38	1.70	0.70
10	133.50	57.60	41.53	21.02	7.88	1.02	0.97
8	215.69	68.90	45.97	25.92	11.55	1.56	0.63
6	183.97	64.17	44.08	23.41	9.71	1.07	0.29
4	264.83 *	75.21	47.19	27.97	12.70	1.73	0.44
2	171.08	62.41	43.71	21.62	9.13	0.89	0.34
0	212.70	67.81	46.39	24.10	11.08	1.06	0.49
-2	173.22	62.93	44.20	22.10	9.03	1.15	0.54
-4	272.36 *	75.93	48.41	29.16	11.81	1.71	0.26
-6	189.69	65.53	45.15	24.45	9.70	1.64	0.52
-8	226.63	70.11	46.51	26.78	11.54	1.42	0.43
-10	140.70	59.22	41.99	21.44	8.87	1.27	0.12
-12	192.03	67.28	46.10	26.18	12.08	1.56	0.43
-14	153.40	62.19	44.26	23.58	10.29	1.30	0.00
-16	186.08	68.62	47.08	27.68	12.66	2.07	0.26
-18	125.90	58.71	42.11	21.62	8.75	0.84	0.00
-20	127.34	59.53	43.89	22.62	9.88	1.41	0.45
-22	102.60	55.61	40.67	20.56	8.06	0.57	0.00
-24	116.27	59.44	43.76	24.40	11.10	1.16	0.09
-26	92.87	53.90	39.72	20.64	8.38	0.64	0.00
-28	93.29	54.24	39.99	22.04	9.63	0.95	0.01
-30	70.95	48.75	33.70	17.38	6.20	0.75	0.00
-32	74.07	49.93	36.09	19.67	8.06	0.88	0.19
-34	63.17	46.44	30.97	16.67	5.36	0.75	0.40
-36	64.64	48.98	34.51	19.23	7.68	0.97	0.47
-38	59.89	47.00	31.81	17.37	5.83	0.81	0.52
-40	61.46	50.30	36.65	20.43	8.56	1.16	0.50
-42	56.87	45.84	30.50	16.05	4.97	0.76	0.54
-44	56.61	46.61	31.18	16.68	5.37	0.83	0.46
-46	52.85	42.25	26.59	13.17	3.10	0.65	0.52
-48	53.31	43.57	27.59	15.73	4.87	0.81	0.46
-50	49.47	39.44	25.01	13.09	3.54	0.70	0.44
-52	49.74	36.78	23.68	13.94	4.03	0.76	0.45
-54	45.27	27.88	20.28	9.88	2.11	0.56	0.42
-56	45.89	27.13	19.16	10.87	2.46	0.64	0.42

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : 48W 120.IES

CANDELA TABULATION - (Cont.)

-58	41.79	21.47	16.23	8.69	1.78	0.59	0.41
-60	43.52	20.78	15.60	9.30	2.37	0.70	0.43
-62	30.99	16.17	11.59	6.53	1.52	0.56	0.46
-64	24.22	14.40	9.91	5.54	1.49	0.56	0.43
-66	16.15	11.05	7.04	3.45	1.07	0.48	0.54
-68	15.38	10.43	6.89	3.66	1.19	0.55	0.44
-70	11.87	8.25	5.17	2.57	0.99	0.50	0.57
-72	10.27	7.09	4.59	2.42	1.00	0.53	0.44
-74	7.35	4.95	2.94	1.58	0.79	0.48	0.44
-76	5.91	4.01	2.49	1.39	0.79	0.47	0.43
-78	4.26	2.85	1.79	1.09	0.65	0.45	0.39
-80	3.12	2.20	1.51	0.99	0.72	0.45	0.45
-82	2.19	1.56	1.11	0.74	0.52	0.42	0.35
-84	1.42	1.16	0.84	0.59	0.48	0.43	0.40
-86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : 48W 120.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides  
 Total Lumens (one side of beam only) = 1461.39  
 Total Field Lumens (one side of beam only) = 1316.25  
 \* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
90										
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
82	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02
80	0.04	0.04	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.02
78	0.05	0.06	0.07	0.07	0.05	0.04	0.04	0.05	0.04	0.03
76	0.07	0.08	0.11	0.11	0.08	0.06	0.06	0.06	0.07	0.05
74	0.08	0.10	0.13	0.14	0.10	0.07	0.08	0.08	0.09	0.07
72	0.10	0.12	0.15	0.15	0.12	0.09	0.09	0.10	0.11	0.09
70	0.12	0.13	0.16	0.17	0.13	0.11	0.11	0.12	0.13	0.12
68	0.13	0.15	0.17	0.18	0.15	0.13	0.13	0.14	0.15	0.14
66	0.15	0.17	0.19	0.19	0.17	0.16	0.16	0.16	0.17	0.16
64	0.17	0.19	0.20	0.20	0.19	0.18	0.18	0.18	0.19	0.17
62	0.19	0.20	0.21	0.21	0.20	0.20	0.21	0.21	0.21	0.18
60	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.24	0.23	0.19
58	0.23	0.24	0.24	0.24	0.23	0.25	0.26	0.26	0.25	0.20
56	0.27	0.27	0.27	0.26	0.25	0.27	0.29	0.29	0.26	0.21
54	0.30	0.30	0.30	0.29	0.28	0.30	0.32	0.32	0.28	0.22
52	0.31	0.31	0.32	0.32	0.31	0.34	0.36	0.35	0.30	0.23
50	0.32	0.32	0.33	0.34	0.35	0.38	0.40	0.38	0.32	0.24
48	0.32	0.34	0.36	0.37	0.38	0.41	0.43	0.41	0.34	0.25
46	0.33	0.36	0.40	0.41	0.41	0.44	0.46	0.43	0.36	0.26
44	0.34	0.38	0.43	0.44	0.44	0.47	0.49	0.47	0.39	0.27
42	0.37	0.39	0.44	0.46	0.48	0.52	0.54	0.52	0.42	0.29
40	0.40	0.41	0.44	0.48	0.52	0.56	0.60	0.58	0.47	0.31
38	0.44	0.45	0.47	0.53	0.59	0.67 *	0.73 *	0.71 *	0.56	0.35
	0.50	0.52	0.54	0.60	0.69 *	0.83 *	0.93 *	0.89 *	0.68 *	0.42

**IES FLOOD REPORT**  
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**LUMENS TABULATION - (Cont.)**

<b>36</b>										
	0.63	0.64	0.68	0.76 *	0.90 *	1.09 *	1.21 *	1.14 *	0.84 *	0.49
<b>34</b>	0.87 *	0.89 *	0.96 *	1.09 *	1.32 *	1.56 *	1.67 *	1.52 *	1.07 *	0.59 *
<b>32</b>	1.17 *	1.20 *	1.30 *	1.51 *	1.84 *	2.13 *	2.22 *	1.96 *	1.33 *	0.69 *
<b>30</b>	1.52 *	1.55 *	1.65 *	1.89 *	2.27 *	2.61 *	2.75 *	2.47 *	1.65 *	0.85 *
<b>28</b>	1.93 *	1.93 *	2.00 *	2.21 *	2.60 *	3.00 *	3.28 *	3.03 *	2.03 *	1.04 *
<b>26</b>	2.31 *	2.30 *	2.33 *	2.53 *	2.93 *	3.39 *	3.79 *	3.57 *	2.44 *	1.28 *
<b>24</b>	2.64 *	2.62 *	2.64 *	2.84 *	3.26 *	3.79 *	4.28 *	4.07 *	2.90 *	1.62 *
<b>22</b>	2.94 *	2.91 *	2.94 *	3.14 *	3.59 *	4.21 *	4.77 *	4.56 *	3.38 *	2.00 *
<b>20</b>	3.22 *	3.19 *	3.21 *	3.42 *	3.87 *	4.53 *	5.13 *	4.97 *	3.85 *	2.45 *
<b>18</b>	3.48 *	3.44 *	3.46 *	3.66 *	4.12 *	4.76 *	5.36 *	5.27 *	4.29 *	2.95 *
<b>16</b>	3.71 *	3.67 *	3.69 *	3.88 *	4.33 *	4.94 *	5.54 *	5.53 *	4.68 *	3.42 *
<b>14</b>	3.89 *	3.85 *	3.86 *	4.04 *	4.47 *	5.06 *	5.61 *	5.64 *	4.94 *	3.82 *
<b>12</b>	4.03 *	4.00 *	4.01 *	4.17 *	4.58 *	5.14 *	5.63 *	5.69 *	5.15 *	4.18 *
<b>10</b>	4.13 *	4.09 *	4.10 *	4.25 *	4.64 *	5.17 *	5.63 *	5.70 *	5.30 *	4.47 *
<b>8</b>	4.17 *	4.13 *	4.13 *	4.27 *	4.65 *	5.15 *	5.61 *	5.70 *	5.38 *	4.69 *
<b>6</b>	4.20 *	4.17 *	4.15 *	4.28 *	4.65 *	5.14 *	5.57 *	5.68 *	5.45 *	4.86 *
<b>4</b>	4.21 *	4.18 *	4.17 *	4.28 *	4.63 *	5.11 *	5.54 *	5.66 *	5.48 *	4.95 *
<b>2</b>	4.21 *	4.18 *	4.17 *	4.28 *	4.61 *	5.08 *	5.50 *	5.64 *	5.50 *	5.01 *
<b>0</b>	4.21 *	4.17 *	4.16 *	4.27 *	4.60 *	5.07 *	5.49 *	5.63 *	5.48 *	4.99 *
<b>-2</b>	4.19 *	4.16 *	4.15 *	4.26 *	4.61 *	5.09 *	5.51 *	5.64 *	5.45 *	4.91 *
<b>-4</b>	4.17 *	4.14 *	4.12 *	4.25 *	4.61 *	5.10 *	5.53 *	5.63 *	5.38 *	4.80 *
<b>-6</b>	4.13 *	4.10 *	4.09 *	4.22 *	4.60 *	5.10 *	5.55 *	5.63 *	5.28 *	4.60 *
<b>-8</b>	4.08 *	4.05 *	4.05 *	4.20 *	4.59 *	5.11 *	5.56 *	5.61 *	5.15 *	4.35 *
<b>-10</b>	3.99 *	3.95 *	3.96 *	4.12 *	4.52 *	5.06 *	5.55 *	5.57 *	4.98 *	4.04 *
<b>-12</b>	3.84 *	3.80 *	3.81 *	3.98 *	4.41 *	4.98 *	5.51 *	5.51 *	4.77 *	3.68 *
<b>-14</b>	3.66 *	3.62 *	3.63 *	3.82 *	4.26 *	4.85 *	5.42 *	5.38 *	4.50 *	3.26 *
<b>-16</b>	3.41 *	3.38 *	3.40 *	3.59 *	4.04 *	4.65 *	5.23 *	5.12 *	4.11 *	2.81 *
<b>-18</b>	3.13 *	3.10 *	3.13 *	3.32 *	3.78 *	4.41 *	5.00 *	4.81 *	3.65 *	2.31 *
<b>-20</b>	2.85 *	2.82 *	2.85 *	3.04 *	3.48 *	4.09 *	4.66 *	4.44 *	3.22 *	1.89 *
<b>-22</b>	2.55 *	2.53 *	2.56 *	2.75 *	3.17 *	3.70 *	4.19 *	3.98 *	2.78 *	1.53 *

**IES FLOOD REPORT**  
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**LUMENS TABULATION - (Cont.)**

<b>-24</b>	2.24 *	2.23 *	2.27 *	2.46 *	2.85 *	3.30 *	3.72 *	3.52 *	2.38 *	1.22 *
<b>-26</b>	1.90 *	1.91 *	1.96 *	2.16 *	2.54 *	2.93 *	3.22 *	3.01 *	2.01 *	1.00 *
<b>-28</b>	1.55 *	1.58 *	1.66 *	1.87 *	2.24 *	2.57 *	2.70 *	2.47 *	1.68 *	0.82 *
<b>-30</b>	1.22 *	1.25 *	1.33 *	1.52 *	1.83 *	2.12 *	2.18 *	1.99 *	1.37 *	0.68 *
<b>-32</b>	0.89 *	0.91 *	0.97 *	1.09 *	1.32 *	1.57 *	1.67 *	1.55 *	1.09 *	0.57
<b>-34</b>	0.63	0.64	0.68	0.76 *	0.91 *	1.11 *	1.23 *	1.16 *	0.86 *	0.48
<b>-36</b>	0.50	0.51	0.54	0.59	0.70	0.84 *	0.94 *	0.90 *	0.69 *	0.41
<b>-38</b>	0.44	0.45	0.47	0.52	0.59	0.66	0.72 *	0.71 *	0.56	0.35
<b>-40</b>	0.39	0.40	0.43	0.47	0.51	0.55	0.59	0.58	0.47	0.30
<b>-42</b>	0.35	0.38	0.42	0.45	0.47	0.50	0.53	0.52	0.42	0.28
<b>-44</b>	0.32	0.35	0.41	0.42	0.43	0.46	0.48	0.46	0.38	0.26
<b>-46</b>	0.31	0.33	0.38	0.39	0.40	0.43	0.44	0.42	0.35	0.24
<b>-48</b>	0.30	0.32	0.34	0.35	0.37	0.40	0.41	0.39	0.33	0.23
<b>-50</b>	0.30	0.30	0.31	0.32	0.33	0.36	0.38	0.36	0.31	0.22
<b>-52</b>	0.30	0.30	0.31	0.30	0.29	0.32	0.34	0.33	0.29	0.22
<b>-54</b>	0.29	0.29	0.29	0.28	0.26	0.28	0.31	0.30	0.27	0.21
<b>-56</b>	0.26	0.26	0.26	0.25	0.24	0.26	0.28	0.28	0.25	0.20
<b>-58</b>	0.22	0.23	0.23	0.22	0.22	0.23	0.25	0.25	0.23	0.19
<b>-60</b>	0.20	0.20	0.21	0.21	0.20	0.21	0.22	0.22	0.21	0.18
<b>-62</b>	0.18	0.19	0.20	0.20	0.19	0.19	0.20	0.19	0.20	0.17
<b>-64</b>	0.16	0.18	0.19	0.19	0.18	0.17	0.17	0.17	0.18	0.16
<b>-66</b>	0.14	0.16	0.18	0.18	0.16	0.15	0.15	0.15	0.16	0.15
<b>-68</b>	0.12	0.14	0.16	0.17	0.14	0.12	0.12	0.12	0.14	0.14
<b>-70</b>	0.10	0.12	0.16	0.16	0.12	0.10	0.10	0.11	0.13	0.12
<b>-72</b>	0.09	0.11	0.15	0.15	0.11	0.08	0.08	0.09	0.11	0.09
<b>-74</b>	0.07	0.09	0.13	0.14	0.09	0.06	0.06	0.07	0.09	0.07
<b>-76</b>	0.06	0.07	0.10	0.11	0.07	0.05	0.05	0.05	0.06	0.05
<b>-78</b>	0.04	0.05	0.07	0.07	0.04	0.03	0.03	0.04	0.04	0.03
<b>-80</b>	0.03	0.03	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.01
<b>-82</b>	0.02	0.02	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01

**IES FLOOD REPORT**  
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**LUMENS TABULATION - (Cont.)**

<b>-84</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
<b>-86</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>-88</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>-90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	116.56	116.56	118.45	124.86	138.23	155.94	171.14	168.24	141.77	106.09	

Vert. Angles	Horizontal Angles									Total
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.14
84	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.34
82	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.44
80	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.60
78	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.83
76	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	1.05
74	0.06	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00	1.27
72	0.07	0.04	0.02	0.02	0.01	0.01	0.00	0.00	0.00	1.47
70	0.09	0.05	0.03	0.02	0.01	0.01	0.00	0.00	0.00	1.69
68	0.11	0.06	0.03	0.02	0.01	0.01	0.00	0.00	0.00	1.92
66	0.12	0.07	0.04	0.02	0.01	0.01	0.00	0.00	0.00	2.14
64	0.13	0.08	0.04	0.03	0.02	0.01	0.00	0.00	0.00	2.33
62	0.13	0.09	0.05	0.03	0.02	0.01	0.00	0.00	0.00	2.51
60	0.14	0.09	0.06	0.03	0.02	0.01	0.00	0.00	0.00	2.75
58	0.15	0.10	0.06	0.04	0.02	0.01	0.00	0.00	0.00	3.04
56	0.15	0.10	0.07	0.04	0.02	0.01	0.00	0.00	0.00	3.31
54	0.16	0.11	0.07	0.04	0.02	0.01	0.00	0.00	0.00	3.56
52	0.16	0.11	0.07	0.05	0.02	0.01	0.00	0.00	0.00	3.80
50	0.17	0.11	0.08	0.05	0.02	0.01	0.00	0.00	0.00	4.05
48	0.17	0.12	0.08	0.05	0.02	0.01	0.00	0.00	0.00	4.31
46	0.18	0.12	0.08	0.05	0.03	0.01	0.00	0.00	0.00	4.59
44	0.19	0.12	0.08	0.05	0.03	0.01	0.00	0.00	0.00	4.92

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : 48W 120.IES**

**LUMENS TABULATION - (Cont.)**

<b>42</b>									
	0.19	0.13	0.09	0.05	0.03	0.01	0.00	0.00	5.26
<b>40</b>									
	0.21	0.13	0.09	0.05	0.03	0.01	0.00	0.00	6.01
<b>38</b>									
	0.24	0.14	0.09	0.05	0.03	0.01	0.00	0.00	7.17
<b>36</b>									
	0.27	0.16	0.09	0.05	0.03	0.01	0.00	0.00	9.01
<b>34</b>									
	0.31	0.17	0.10	0.06	0.03	0.01	0.00	0.00	12.22
<b>32</b>									
	0.35	0.19	0.10	0.06	0.03	0.01	0.00	0.00	16.11
<b>30</b>									
	0.42	0.22	0.11	0.06	0.03	0.01	0.00	0.00	20.05
<b>28</b>									
	0.51 *	0.25	0.11	0.06	0.03	0.01	0.00	0.00	24.02
<b>26</b>									
	0.62 *	0.28	0.12	0.06	0.03	0.01	0.00	0.00	28.01
<b>24</b>									
	0.79 *	0.33	0.13	0.06	0.03	0.01	0.00	0.00	32.03
<b>22</b>									
	0.97 *	0.39	0.14	0.06	0.03	0.01	0.00	0.00	36.07
<b>20</b>									
	1.23 *	0.46	0.15	0.06	0.03	0.01	0.00	0.00	39.78
<b>18</b>									
	1.55 *	0.55 *	0.16	0.07	0.03	0.01	0.00	0.00	43.17
<b>16</b>									
	1.87 *	0.64 *	0.17	0.07	0.03	0.01	0.00	0.00	46.18
<b>14</b>									
	2.19 *	0.75 *	0.18	0.07	0.03	0.01	0.00	0.00	48.42
<b>12</b>									
	2.51 *	0.88 *	0.20	0.07	0.03	0.01	0.00	0.00	50.27
<b>10</b>									
	2.77 *	0.98 *	0.21	0.07	0.03	0.01	0.00	0.00	51.56
<b>8</b>									
	3.00 *	1.06 *	0.21	0.07	0.03	0.01	0.00	0.00	52.26
<b>6</b>									
	3.18 *	1.14 *	0.22	0.07	0.03	0.01	0.00	0.00	52.82
<b>4</b>									
	3.29 *	1.21 *	0.23	0.07	0.03	0.01	0.00	0.00	53.07
<b>2</b>									
	3.38 *	1.26 *	0.24	0.07	0.03	0.01	0.00	0.00	53.18
<b>0</b>									
	3.38 *	1.27 *	0.24	0.07	0.03	0.01	0.00	0.00	53.09
<b>-2</b>									
	3.29 *	1.22 *	0.24	0.07	0.03	0.01	0.00	0.00	52.83
<b>-4</b>									
	3.18 *	1.16 *	0.22	0.07	0.03	0.01	0.00	0.00	52.42
<b>-6</b>									
	2.99 *	1.09 *	0.22	0.07	0.03	0.01	0.00	0.00	51.73
<b>-8</b>									
	2.78 *	1.03 *	0.22	0.07	0.03	0.01	0.00	0.00	50.91
<b>-10</b>									
	2.50 *	0.92 *	0.21	0.07	0.03	0.01	0.00	0.00	49.50
<b>-12</b>									
	2.15 *	0.77 *	0.19	0.07	0.03	0.01	0.00	0.00	47.52
<b>-14</b>									
	1.81 *	0.65 *	0.17	0.07	0.03	0.01	0.00	0.00	45.16
<b>-16</b>									
	1.50 *	0.55 *	0.16	0.07	0.03	0.01	0.00	0.00	42.05

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : 48W 120.IES**

**LUMENS TABULATION - (Cont.)**

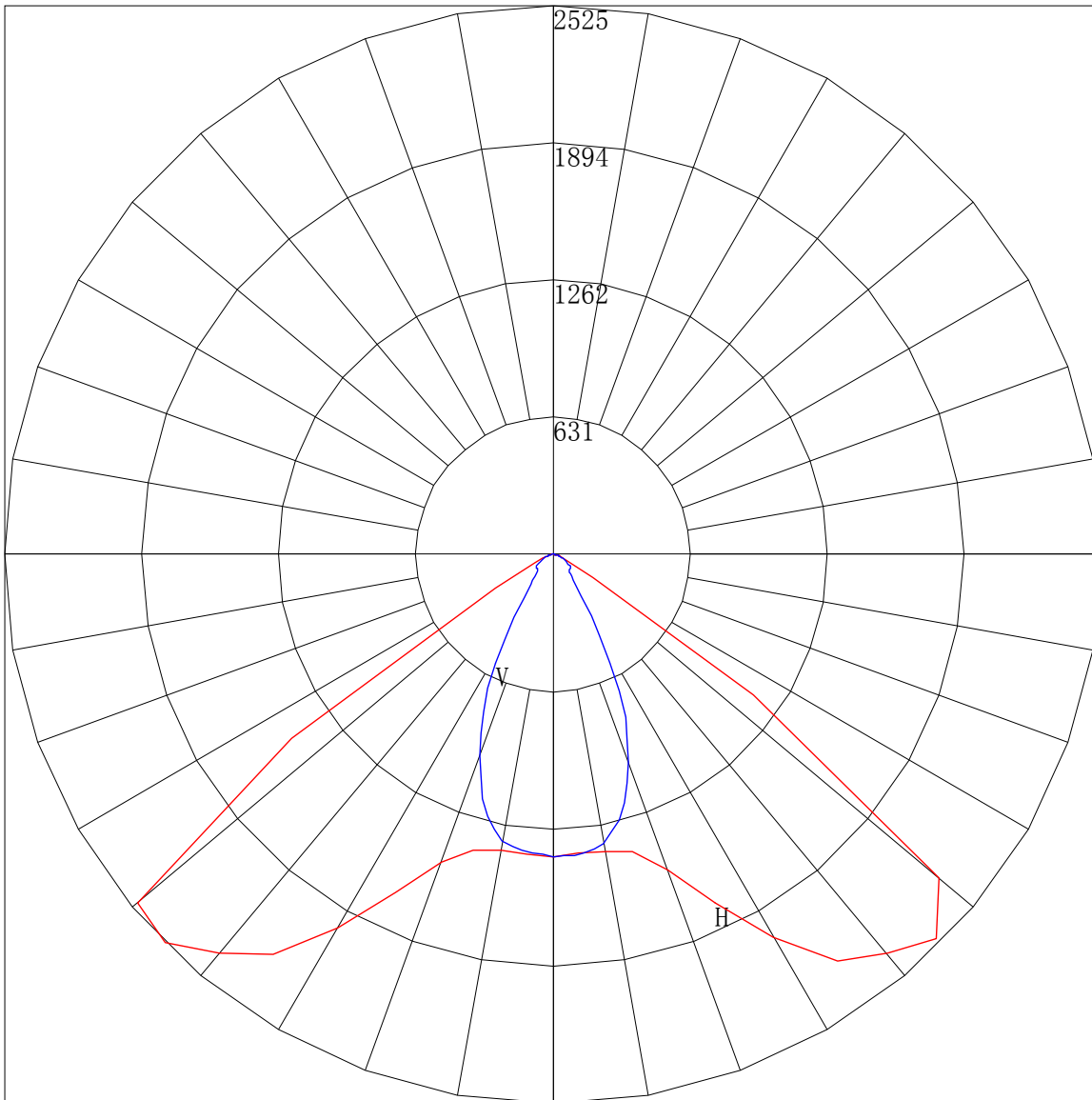
-18	1.19 *	0.46	0.15	0.06	0.03	0.01	0.00	0.00	38.57
-20	0.94 *	0.39	0.14	0.06	0.03	0.01	0.00	0.00	34.91
-22	0.75 *	0.33	0.13	0.06	0.03	0.01	0.00	0.00	31.06
-24	0.59 *	0.27	0.12	0.06	0.03	0.01	0.00	0.00	27.27
-26	0.48	0.24	0.11	0.06	0.03	0.01	0.00	0.00	23.59
-28	0.40	0.21	0.10	0.06	0.03	0.01	0.00	0.00	19.96
-30	0.34	0.18	0.10	0.05	0.03	0.01	0.00	0.00	16.19
-32	0.29	0.16	0.09	0.05	0.03	0.01	0.00	0.00	12.27
-34	0.25	0.15	0.09	0.05	0.03	0.01	0.00	0.00	9.03
-36	0.22	0.13	0.08	0.05	0.03	0.01	0.00	0.00	7.15
-38	0.20	0.12	0.08	0.05	0.02	0.01	0.00	0.00	5.94
-40	0.18	0.11	0.08	0.05	0.02	0.01	0.00	0.00	5.14
-42	0.17	0.11	0.07	0.05	0.02	0.01	0.00	0.00	4.75
-44	0.16	0.10	0.07	0.04	0.02	0.01	0.00	0.00	4.38
-46	0.16	0.10	0.07	0.04	0.02	0.01	0.00	0.00	4.08
-48	0.15	0.10	0.07	0.04	0.02	0.01	0.00	0.00	3.82
-50	0.15	0.10	0.06	0.04	0.02	0.01	0.00	0.00	3.57
-52	0.14	0.09	0.06	0.04	0.02	0.01	0.00	0.00	3.35
-54	0.14	0.09	0.06	0.03	0.02	0.00	0.00	0.00	3.12
-56	0.13	0.09	0.05	0.03	0.01	0.00	0.00	0.00	2.85
-58	0.13	0.08	0.05	0.02	0.01	0.00	0.00	0.00	2.57
-60	0.12	0.08	0.04	0.02	0.01	0.00	0.00	0.00	2.34
-62	0.12	0.07	0.03	0.02	0.01	0.00	0.00	0.00	2.16
-64	0.11	0.06	0.03	0.01	0.01	0.00	0.00	0.00	1.97
-66	0.10	0.05	0.02	0.01	0.01	0.00	0.00	0.00	1.76
-68	0.09	0.04	0.02	0.01	0.00	0.00	0.00	0.00	1.55
-70	0.07	0.03	0.01	0.01	0.00	0.00	0.00	0.00	1.34
-72	0.05	0.02	0.01	0.01	0.00	0.00	0.00	0.00	1.14
-74	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.93
-76	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.71

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : 48W 120.IES**

**LUMENS TABULATION - (Cont.)**

<b>-78</b>	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.47
<b>-80</b>	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.30
<b>-82</b>	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
<b>-84</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
<b>-86</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>-88</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>-90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	63.61	25.46	8.04	3.65	1.86	0.72	0.17	0.02	1461.39

AXIAL CANDELA DISPLAY

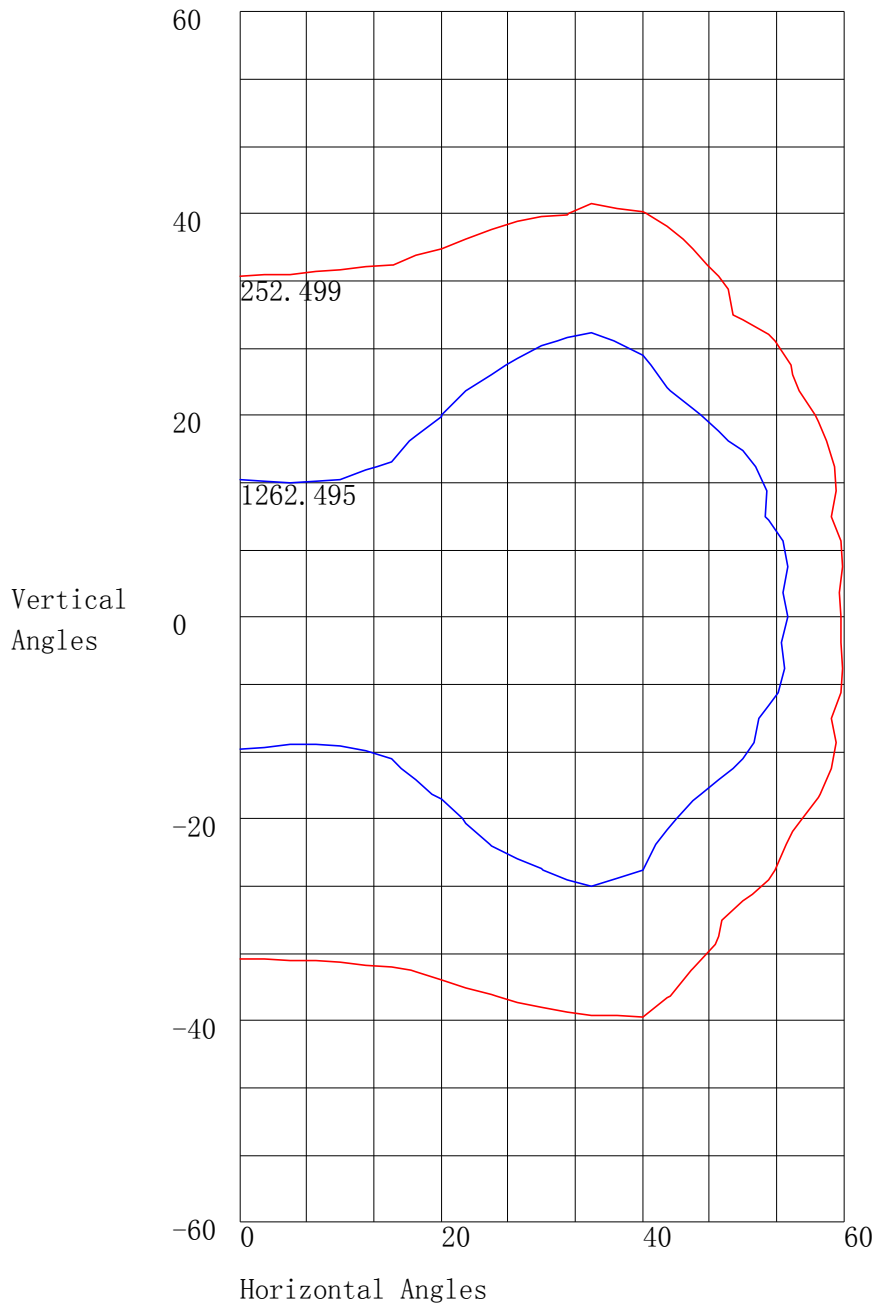


Maximum Candela = 2524.99 Located At Horizontal Angle = -45, Vertical Angle = 0

H - Horizontal Axial Candela

V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 2524.99 Located At Horizontal Angle = -45, Vertical Angle = 0  
50% Maximum Candela = 1262.495  
10% Maximum Candela = 252.499