

LUMA Lighting

Photometric Toolbox

IES FLOOD REPORT

PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-1995

[TEST]

[DATE] 2015-5-27

[MANUFAC] LUMA

[LUMCAT] Resilient LFL0200-100W (4-FIT) 5000k (Light Beam = 60 Degree)

[LUMINAIRE] Industrial Linear Lighting

[LAMPCAT] LED

[LAMP] PHILIPS LED

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	11487.88
Maximum Candela Angle	0H -5V
Horizontal Beam Angle (50%)	58.3
Vertical Beam Angle (50%)	58.9
Horizontal Field Angle (10%)	84.8
Vertical Field Angle (10%)	86.2
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	7436
Beam Efficiency	N.A.
Field Lumens	9972
Field Efficiency	N.A.
Spill Lumens	482
Luminaire Lumens	10453
Total Efficiency	N.A.
Total Luminaire Watts	101.5
Ballast Factor	1.00

IES FLOOD REPORT**PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES****AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	3.67	90	3.8
85	4.18	85	3.85
75	10.15	75	9.4
65	24.14	65	21.72
55	70.02	55	59.98
47.5	370.25	47.5	315.86
42.5	1094.54	42.5	935.55
37.5	2389.79	37.5	2021.33
33	4131.98	33	3570.77
29	5997.34	29	5369.2
25.5	7650.02	25.5	7121.46
22.5	8826.2	22.5	8400.12
19.5	9872.78	19.5	9559.09
17	10405.25	17	10212.23
15	10831.23	15	10734.74
13	10994.57	13	10929.8
11	11157.9	11	11124.85
9	11265.01	9	11254.68
7	11315.9	7	11319.29
5	11366.78	5	11383.9
3	11393.77	3	11404.04
1	11420.76	1	11424.19
0	11434.26	0	11434.26
-1	11422.23	-1	11444.98
-3	11398.18	-3	11466.43
-5	11374.12	-5	11487.88
-7	11351.6	-7	11398.5
-9	11329.08	-9	11309.11
-11	11224.77	-11	11220.8
-13	11038.66	-13	11133.57
-15	10852.55	-15	11046.33
-17	10394.24	-17	10695.51
-19.5	9821.35	-19.5	10256.99
-22.5	8751.99	-22.5	9323.44
-25.5	7557.96	-25.5	8235.98
-29	5883.28	-29	6544.68
-33	3976.07	-33	4630.62
-37.5	2346.26	-37.5	2900.37
-42.5	1180.69	-42.5	1555.76
-47.5	412.35	-47.5	616.92
-55	67.9	-55	85.68
-65	23.85	-65	32.99
-75	10.14	-75	12.43
-85	4.28	-85	4.77
-90	3.31	-90	3.47

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Maximum Candela = 11487.88

Beam Edge = 5743.94 Cd (50% of Max.)

Field Edge = 1148.788 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>-90.0</u>	<u>-85.0</u>	<u>-75.0</u>	<u>-65.0</u>	<u>-55.0</u>	<u>-47.5</u>	<u>-42.5</u>	<u>-37.5</u>	<u>-33.0</u>	<u>-29.0</u>
90.0	3.31	3.34	3.39	3.45	3.50	3.54	3.57	3.60	3.62	3.64
85.0	3.31	3.42	3.60	3.75	3.85	3.90	3.93	3.94	3.95	3.95
75.0	3.31	3.57	4.02	4.72	5.63	6.26	6.89	7.46	7.92	8.27
65.0	3.31	3.72	4.78	6.55	9.17	11.44	12.98	14.38	15.93	17.32
55.0	3.31	3.86	5.78	9.27	14.23	19.45	22.92	29.69	35.18	39.69
47.5	3.31	3.96	6.48	11.64	19.63	30.40	39.47	51.42	61.27	75.10
42.5	3.31	4.02	7.16	13.28	23.31	39.77	54.46	72.57	96.23	127.86
37.5	3.31	4.07	7.78	14.79	30.45	52.37	73.62	106.97	286.97	503.49
33.0	3.31	4.11	8.29	16.50	36.35	63.12	100.50	293.62	591.54	1002.86
29.0	3.31	4.15	8.69	18.07	41.32	79.76	137.56	526.09	1023.03	1517.11 *
25.5	3.31	4.18	9.01	19.30	46.87	95.85	303.10	775.37	1398.99 *	2109.32 *
22.5	3.31	4.20	9.25	20.25	51.18	108.66	433.97	1041.01	1771.12 *	2603.48 *
19.5	3.31	4.22	9.46	21.10	55.05	120.46	553.48	1285.06 *	2176.95 *	3159.69 *
17.0	3.31	4.23	9.62	21.73	57.92	153.03	643.57	1470.05 *	2482.58 *	3740.80 *
15.0	3.31	4.24	9.73	22.17	59.98	206.85	742.37	1606.89 *	2703.75 *	4166.15 *
13.0	3.31	4.25	9.83	22.57	61.81	254.94	843.14	1778.56 *	2902.60 *	4552.61 *
11.0	3.31	4.28	9.91	22.91	63.41	297.07	931.83	1929.17 *	3158.98 *	4896.62 *
9.0	3.31	4.28	9.98	23.20	64.78	333.00	1007.90	2057.81 *	3412.11 *	5194.61 *
7.0	3.31	4.28	10.04	23.44	65.91	362.49	1070.79	2163.67 *	3621.09 *	5445.83 *
5.0	3.31	4.28	10.13	23.62	66.79	385.36	1120.03	2246.07 *	3783.71 *	5644.33 *
3.0	3.31	4.28	10.13	23.82	67.72	401.40	1155.17 *	2304.47 *	3898.10 *	5784.65 *
1.0	3.31	4.28	10.14	23.84	67.84	410.47	1175.86 *	2338.47 *	3962.75 *	5865.44 *
0.0	3.31	4.28	10.14	23.85	67.90	412.35	1180.69 *	2346.26 *	3976.07 *	5883.28 *
-1.0	3.31	4.28	10.15	23.90	68.04	413.53	1183.37 *	2351.19 *	3980.87 *	5889.00 *
-3.0	3.31	4.28	10.16	23.99	68.31	410.45	1177.49 *	2342.41 *	3952.09 *	5855.25 *
-5.0	3.31	4.28	10.17	23.91	67.78	400.01	1156.51 *	2308.61 *	3872.47 *	5761.71 *
-7.0	3.31	4.28	10.10	23.84	67.27	382.12	1120.39	2249.77 *	3742.84 *	5609.61 *
-9.0	3.31	4.28	10.06	23.70	66.49	356.73	1069.17	2166.06 *	3564.46 *	5401.57 *
-11.0	3.31	4.29	10.01	23.51	65.45	323.81	1002.99	2057.83 *	3338.99 *	5140.47 *
-13.0	3.31	4.26	9.94	23.26	64.15	283.40	922.05	1925.61 *	3107.22 *	4828.53 *
-15.0	3.31	4.25	9.86	22.95	62.58	235.53	826.64	1770.05 *	2930.26 *	4468.94 *
-17.0	3.31	4.25	9.76	22.57	60.75	180.30	730.75	1642.36 *	2727.49 *	4065.03 *
-19.5	3.31	4.23	9.62	22.02	58.10	146.48	641.14	1462.83 *	2439.74 *	3502.96 *
-22.5	3.31	4.22	9.43	21.24	54.39	133.29	516.45	1216.51 *	2047.75 *	2961.53 *
-25.5	3.31	4.20	9.20	20.32	50.13	117.13	373.93	938.85	1672.33 *	2473.15 *
-29.0	3.31	4.17	8.90	19.07	44.48	94.58	186.50	665.55	1267.58 *	1877.12 *
-33.0	3.31	4.14	8.52	17.44	39.61	70.38	136.08	393.00	784.84	1299.01 *
-37.5	3.31	4.09	8.02	15.64	33.73	58.90	90.53	160.00	408.22	709.45
-42.5	3.31	4.04	7.40	14.11	26.48	45.01	63.05	93.39	149.66	216.74
-47.5	3.31	3.98	6.72	12.41	22.21	35.27	45.88	61.24	74.59	107.93
-55.0	3.31	3.88	6.00	9.92	15.78	22.93	28.16	36.36	43.23	49.13
-65.0	3.31	3.73	4.96	7.06	10.19	13.05	15.10	17.05	19.52	21.95
-75.0	3.31	3.57	4.12	5.04	6.25	7.15	8.00	8.80	9.47	10.02
-85.0	3.31	3.40	3.60	3.80	4.00	4.15	4.24	4.32	4.40	4.46
-90.0	3.31	3.32	3.34	3.36	3.37	3.39	3.40	3.41	3.41	3.42

Vert. Angles	Horizontal Angles									
	<u>-25.5</u>	<u>-22.5</u>	<u>-19.5</u>	<u>-17.0</u>	<u>-15.0</u>	<u>-13.0</u>	<u>-11.0</u>	<u>-9.0</u>	<u>-7.0</u>	<u>-5.0</u>
90.0	3.66	3.68	3.69	3.71	3.72	3.73	3.74	3.75	3.76	3.77
85.0	3.94	3.94	3.93	3.92	3.91	3.91	3.90	3.89	3.88	3.87
75.0	8.55	8.76	8.94	9.07	9.16	9.23	9.29	9.34	9.38	9.44
65.0	18.39	19.19	19.89	20.39	20.73	21.02	21.27	21.46	21.60	21.70

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CANDELA TABULATION - (Cont.)

55.0	44.57	48.25	51.44	53.73	55.31	56.67	57.80	58.70	59.38	59.83
47.5	87.30	96.16	103.52	129.33	173.60	211.92	244.26	270.59	290.93	305.33
42.5	277.73	391.28	490.33	561.33	641.46	721.85	789.69	844.85	887.24	916.84
37.5	729.17	965.42	1173.53	1324.09	1431.40	1584.55	1716.16	1825.34	1911.31	1973.41
33.0	1347.48	1689.67	2069.25	2351.89	2553.92	2732.98	2957.43	3172.11	3341.94	3465.80
29.0	2081.68	2550.43	3073.24	3609.36	3992.43	4331.56	4623.89	4866.82	5071.87	5232.90
25.5	2753.47	3541.23	4335.77	4931.72	5389.79	5814.83	6188.21	6505.12	6760.94	6951.49
22.5	3572.61	4512.58	5398.84	6114.71	6639.90	7116.74	7531.72	7823.00	8060.24	8238.49
19.5	4415.74	5447.47	6464.74	7253.82	7785.22	8217.70	8605.37	8941.45	9218.83	9430.53
17.0	5065.76	6202.77	7292.77	8041.22	8556.77	9034.94	9468.42	9724.08	9917.75	10067.40
15.0	5561.35	6758.96	7853.67	8585.16	9138.49	9618.82	9908.26	10165.96	10384.89	10557.24
13.0	6018.40	7266.50	8313.21	9088.88	9643.61	9985.04	10302.71	10589.94	10797.57	10867.43
11.0	6424.09	7711.93	8726.18	9545.19	9953.52	10322.00	10669.81	10865.30	10967.96	11049.12
9.0	6773.92	8031.28	9086.27	9820.47	10227.53	10622.75	10879.85	11013.08	11130.46	11225.92
7.0	7063.69	8296.89	9387.13	10031.56	10459.22	10841.04	10998.41	11146.60	11272.78	11293.88
5.0	7289.66	8504.66	9622.81	10197.87	10642.09	10927.75	11097.08	11260.27	11307.75	11334.04
3.0	7448.80	8651.27	9745.65	10315.28	10770.41	10991.74	11170.81	11306.46	11333.10	11362.15
1.0	7539.04	8734.49	9807.46	10381.06	10847.67	11029.91	11214.89	11323.18	11347.77	11375.35
0.0	7557.96	8751.99	9821.35	10394.24	10852.55	11038.66	11224.77	11329.08	11351.60	11374.12
-1.0	7564.99	8759.29	9829.40	10398.70	10860.57	11039.79	11220.50	11326.94	11354.81	11388.38
-3.0	7526.54	8726.25	9812.61	10369.80	10811.74	11023.23	11190.46	11316.31	11351.47	11394.32
-5.0	7418.80	8631.58	9737.81	10293.92	10718.11	10985.98	11138.31	11278.66	11331.11	11373.13
-7.0	7243.63	8478.51	9553.81	10176.15	10579.33	10932.98	11071.35	11195.30	11294.40	11329.76
-9.0	7003.85	8271.16	9309.58	10022.15	10402.81	10765.85	10995.15	11106.18	11197.69	11264.71
-11.0	6703.05	8014.19	9011.70	9812.48	10195.52	10533.29	10845.32	11014.67	11098.08	11160.72
-13.0	6345.37	7621.24	8666.77	9425.88	9963.48	10277.79	10565.23	10819.98	11000.35	11060.68
-15.0	5935.20	7163.42	8281.05	8998.87	9539.65	10004.67	10270.64	10504.82	10702.23	10858.13
-17.0	5478.27	6655.45	7783.62	8538.06	9044.96	9514.36	9939.83	10182.21	10364.96	10510.14
-19.5	4850.15	5958.37	7016.19	7843.59	8390.86	8821.02	9208.21	9546.86	9831.48	10056.97
-22.5	4019.27	5049.52	6019.58	6775.13	7335.10	7849.70	8302.52	8605.80	8860.19	9062.26
-25.5	3199.73	4072.80	4963.58	5646.84	6152.34	6615.06	7028.83	7388.98	7690.97	7930.64
-29.0	2518.90	3062.28	3668.51	4282.82	4731.24	5137.72	5498.80	5811.13	6072.90	6280.81
-33.0	1745.07	2167.91	2619.56	2965.15	3219.02	3450.85	3730.94	4002.08	4227.35	4404.86
-37.5	1018.91	1334.66	1625.79	1847.29	2011.26	2207.62	2382.25	2533.85	2661.17	2763.08
-42.5	431.92	604.12	763.32	884.78	1006.75	1128.82	1237.01	1330.64	1409.06	1471.67
-47.5	143.74	173.49	201.98	252.00	324.14	389.31	447.12	497.16	539.07	572.51
-55.0	56.19	61.76	66.86	70.71	73.51	76.06	78.34	80.35	82.06	83.48
-65.0	23.95	25.54	27.03	28.16	29.01	29.78	30.49	31.12	31.68	32.16
-75.0	10.46	10.82	11.14	11.39	11.57	11.73	11.89	12.02	12.14	12.30
-85.0	4.51	4.55	4.59	4.62	4.65	4.67	4.71	4.72	4.73	4.74
-90.0	3.43	3.43	3.44	3.44	3.45	3.45	3.45	3.46	3.46	3.46

Vert. Horizontal Angles

Angles	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	3.78	3.79	3.80	3.80	3.80	3.79	3.79	3.79	3.78	3.78
85.0	3.86	3.85	3.85	3.85	3.86	3.87	3.88	3.88	3.89	3.89
75.0	9.43	9.41	9.40	9.41	9.43	9.44	9.38	9.34	9.29	9.23
65.0	21.80	21.75	21.72	21.75	21.81	21.72	21.63	21.49	21.30	21.06
55.0	60.30	60.09	59.98	60.12	60.39	59.97	59.57	58.94	58.09	57.00
47.5	313.86	316.61	315.86	315.98	312.01	302.39	287.13	266.22	239.71	207.66
42.5	933.73	938.05	935.55	936.63	929.50	909.83	877.51	832.51	774.85	704.64
37.5	2011.13	2024.15	2021.33	2024.93	2013.21	1975.96	1913.01	1824.37	1710.26	1571.05
33.0	3542.98	3573.21	3570.77	3576.39	3552.58	3482.01	3365.04	3202.49	2995.56	2776.09
29.0	5333.89	5373.10	5369.20	5375.72	5341.77	5246.14	5090.64	4891.60	4655.53	4370.79
25.5	7073.23	7123.57	7121.46	7125.95	7080.41	6963.60	6778.21	6527.81	6216.67	5849.44
22.5	8353.42	8401.69	8400.12	8403.84	8359.95	8249.55	8076.09	7843.96	7558.18	7149.24
19.5	9528.17	9561.40	9559.09	9563.13	9533.62	9440.34	9233.07	8960.56	8629.86	8248.09
17.0	10167.09	10211.72	10212.23	10212.16	10168.80	10071.53	9926.04	9738.67	9491.00	9063.47
15.0	10675.07	10739.79	10734.74	10738.88	10672.95	10555.47	10385.80	10172.29	9922.89	9644.55

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CANDELA TABULATION - (Cont.)

13.0	10913.12	*10931.49	*10929.80	*10929.34	*10907.26	*10859.47	*10789.83	*10586.46	*10307.47	*10001.36	*
11.0	11103.50	*11126.30	*11124.85	*11122.44	*11092.86	*11034.16	*10951.98	*10851.76	*10663.18	*10327.88	*
9.0	11256.49	*11258.25	*11254.68	*11253.67	*11241.89	*11201.58	*11103.98	*10989.15	*10862.41	*10617.22	*
7.0	11311.18	*11320.07	*11319.29	*11316.74	*11299.70	*11270.76	*11234.27	*11110.20	*10970.15	*10824.23	*
5.0	11359.76	*11382.67	*11383.90	*11381.75	*11353.18	*11315.67	*11272.35	*11209.29	*11057.07	*10901.80	*
3.0	11387.39	*11401.14	*11404.04	*11400.19	*11384.27	*11349.61	*11300.10	*11249.95	*11118.90	*10957.19	*
1.0	11397.49	*11418.63	*11424.19	*11417.60	*11393.80	*11368.93	*11314.36	*11262.87	*11152.32	*10988.34	*
0.0	11398.18	*11422.23	*11434.26	*11420.76	*11393.77	*11366.78	*11315.90	*11265.01	*11157.90	*10994.57	*
-1.0	11410.95	*11433.34	*11444.98	*11432.30	*11407.26	*11381.96	*11321.40	*11266.62	*11157.93	*10998.23	*
-3.0	11431.45	*11453.43	*11466.43	*11452.48	*11428.34	*11381.77	*11318.47	*11259.80	*11138.55	*10988.68	*
-5.0	11421.17	*11473.57	*11487.88	*11472.64	*11414.59	*11354.76	*11295.71	*11227.68	*11098.30	*10959.93	*
-7.0	11364.28	*11391.30	*11398.50	*11387.98	*11352.80	*11306.64	*11255.89	*11158.90	*11043.09	*10916.18	*
-9.0	11294.96	*11308.20	*11309.11	*11303.61	*11280.37	*11240.37	*11171.21	*11082.25	*10977.70	*10760.31	*
-11.0	11200.82	*11218.95	*11220.80	*11215.10	*11190.18	*11145.76	*11082.09	*11001.14	*10838.69	*10539.17	*
-13.0	11102.67	*11127.15	*11133.57	*11125.00	*11096.80	*11052.72	*10992.61	*10816.50	*10570.00	*10294.11	*
-15.0	10968.78	*11038.02	*11046.33	*11037.11	*10966.66	*10856.37	*10703.14	*10511.16	*10285.27	*10030.39	*
-17.0	10615.22	*10679.01	*10695.51	*10679.45	*10616.93	*10514.27	*10373.25	*10196.79	*9962.41	*9542.90	*
-19.5	10173.94	*10238.13	*10256.99	*10239.86	*10179.39	*10066.78	*9845.72	*9565.98	*9232.69	*8851.41	*
-22.5	9209.32	*9299.70	*9323.44	*9301.86	*9215.85	*9073.32	*8876.04	*8626.76	*8328.99	*7882.20	*
-25.5	8104.43	*8209.65	*8235.98	*8212.03	*8111.61	*7942.75	*7708.23	*7411.67	*7057.29	*6649.67	*
-29.0	6431.08	*6521.92	*6544.68	*6524.54	*6438.96	*6294.05	*6091.66	*5835.91	*5530.45	*5176.96	*
-33.0	4533.07	*4610.86	*4630.62	*4614.04	*4542.68	*4421.07	*4250.45	*4032.45	*3769.07	*3493.96	*
-37.5	2838.55	*2886.73	*2900.37	*2887.51	*2840.63	*2765.63	*2662.87	*2532.87	*2376.34	*2194.12	*
-42.5	1517.95	*1547.43	*1555.76	*1546.02	*1513.71	*1464.66	*1399.34	*1318.30	*1222.17	*1111.61	
-47.5	597.13	612.65	616.92	612.02	595.28	569.57	535.27	492.79	442.57	385.05	
-55.0	84.96	85.44	85.68	85.47	85.04	83.62	82.26	80.59	78.63	76.39	
-65.0	32.65	32.88	32.99	32.88	32.66	32.18	31.70	31.15	30.52	29.82	
-75.0	12.35	12.40	12.43	12.40	12.35	12.30	12.14	12.02	11.89	11.73	
-85.0	4.75	4.76	4.77	4.76	4.75	4.74	4.72	4.71	4.70	4.65	
-90.0	3.47	3.47	3.47	3.47	3.48	3.48	3.49	3.49	3.50	3.50	

Vert. Angles **Horizontal Angles**

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	3.78	3.78	3.77	3.77	3.76	3.76	3.75	3.75	3.74	3.73
85.0	3.90	3.91	3.91	3.92	3.93	3.93	3.94	3.94	3.94	3.93
75.0	9.15	9.07	8.94	8.75	8.54	8.26	7.90	7.43	6.85	6.20
65.0	20.77	20.44	19.94	19.25	18.45	17.37	15.97	14.41	13.01	11.46
55.0	55.68	54.13	51.87	48.69	45.00	40.09	35.55	29.98	23.07	19.56
47.5	170.15	127.28	102.42	95.29	86.83	75.31	62.20	52.23	40.05	30.78
42.5	622.04	540.43	470.32	374.25	265.86	124.90	95.21	73.15	55.46	40.43
37.5	1407.32	*1297.16	*1143.86	933.00	694.64	473.51	271.24	105.16	74.29	53.43
33.0	2592.02	*2380.67	*2080.00	*1669.15	*1306.04	*959.72	549.75	275.28	99.13	64.54
29.0	4040.06	*3666.21	*3142.83	*2604.45	*2093.29	*1466.90	*972.53	485.21	132.89	80.14
25.5	5430.94	*4980.56	*4397.34	*3620.16	*2836.19	*2122.92	*1342.21	*720.32	281.26	94.88
22.5	6678.94	*6160.77	*5454.36	*4584.49	*3664.78	*2677.32	*1738.35	*980.89	397.58	106.58
19.5	7822.05	*7297.73	*6518.39	*5513.83	*4501.61	*3273.18	*2197.38	*1219.71	*502.88	117.31
17.0	8591.89	*8083.50	*7344.91	*6268.11	*5146.50	*3850.48	*2547.16	*1400.22	*581.51	146.23
15.0	9172.18	*8626.26	*7904.83	*6823.65	*5640.72	*4273.11	*2803.04	*1534.56	*675.73	193.61
13.0	9674.43	*9128.86	*8363.68	*7330.76	*6097.86	*4657.26	*3035.64	*1730.68	*773.62	235.74
11.0	9975.15	*9584.17	*8776.16	*7776.06	*6503.96	*4999.47	*3301.91	*1903.80	*859.48	272.44
9.0	10239.56	*9852.72	*9136.09	*8095.89	*6854.64	*5296.30	*3555.34	*2052.57	*932.77	303.52
7.0	10461.58	*10056.41	*9437.21	*8362.44	*7145.75	*5548.30	*3765.39	*2175.74	*992.98	328.83
5.0	10635.30	*10216.24	*9673.70	*8571.73	*7373.65	*5749.27	*3930.00	*2272.16	*1039.65	348.24
3.0	10755.83	*10328.78	*9795.51	*8720.57	*7535.42	*5892.71	*4047.38	*2340.78	*1072.36	361.64
1.0	10827.23	*10392.12	*9857.66	*8806.84	*7629.07	*5977.31	*4116.14	*2380.76	*1090.78	368.92
0.0	10831.23	*10405.25	*9872.78	*8826.20	*7650.02	*5997.34	*4131.98	*2389.79	*1094.54	370.25
-1.0	10840.14	*10409.75	*9879.60	*8831.63	*7655.02	*6000.87	*4134.26	*2393.48	*1098.29	371.98
-3.0	10797.15	*10383.30	*9862.47	*8795.55	*7613.16	*5963.30	*4101.37	*2378.73	*1094.68	370.69
-5.0	10711.31	*10312.29	*9788.71	*8698.65	*7502.79	*5866.66	*4018.76	*2334.70	*1076.13	362.90

IES FLOOD REPORT
PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES

CANDELA TABULATION - (Cont.)

-7.0	10581.68	*10201.00	*9603.88	* 8544.06	* 7325.69	* 5712.08	* 3887.14	* 2261.84	* 1042.58	348.46
-9.0	10414.83	*10054.40	*9359.39	* 8335.77	* 7084.56	* 5503.27	* 3707.69	* 2160.82	* 994.04	327.25
-11.0	10217.15	*9851.46	* 9061.69	* 8078.33	* 6782.93	* 5243.32	* 3481.93	* 2032.46	* 930.63	299.18
-13.0	9994.30	* 9465.86	* 8717.24	* 7685.50	* 6424.82	* 4933.18	* 3240.26	* 1877.73	* 852.53	264.20
-15.0	9573.34	* 9039.97	* 8332.21	* 7228.11	* 6014.57	* 4575.90	* 3029.55	* 1697.72	* 760.01	222.30
-17.0	9080.08	* 8580.35	* 7835.76	* 6720.79	* 5559.01	* 4174.70	* 2792.06	* 1572.53	* 668.69	173.50
-19.5	8427.68	* 7887.50	* 7069.84	* 6024.74	* 4936.03	* 3616.46	* 2460.17	* 1397.47	* 590.53	143.34
-22.5	7374.13	* 6821.19	* 6075.10	* 5121.44	* 4111.44	* 3035.38	* 2014.98	* 1156.39	* 480.07	131.21
-25.5	6193.49	* 5695.67	* 5025.15	* 4151.73	* 3282.45	* 2486.74	* 1615.55	* 883.80	352.09	116.16
-29.0	4778.87	* 4339.67	* 3738.10	* 3116.30	* 2530.50	* 1826.90	* 1217.08	* 624.67	181.83	94.96
-33.0	3257.12	* 2993.93	* 2630.31	* 2147.39	* 1703.63	* 1255.87	* 743.05	374.66	134.71	71.81
-37.5	1987.18	* 1820.36	* 1596.12	* 1302.25	* 984.37	679.47	392.49	158.19	91.20	59.96
-42.5	987.33	863.89	743.31	587.09	420.05	213.78	148.64	93.97	64.05	45.68
-47.5	320.69	249.96	200.88	172.63	143.28	108.14	75.52	62.04	46.47	35.65
-55.0	73.88	71.10	67.28	62.20	56.62	49.53	43.60	36.65	28.31	23.05
-65.0	29.05	28.21	27.08	25.60	24.00	22.00	19.56	17.08	15.13	13.07
-75.0	11.57	11.39	11.14	10.81	10.46	10.01	9.45	8.77	7.96	7.10
-85.0	4.63	4.61	4.58	4.54	4.50	4.45	4.39	4.32	4.25	4.17
-90.0	3.51	3.51	3.52	3.52	3.53	3.54	3.55	3.55	3.57	3.58

Vert. Horizontal Angles

	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	3.72	3.71	3.69	3.68	3.67
85.0	3.91	3.87	3.80	3.72	3.67
75.0	5.57	4.65	4.03	3.80	3.67
65.0	9.17	6.48	4.69	3.88	3.67
55.0	14.28	9.26	5.69	3.96	3.67
47.5	19.76	11.66	6.39	4.01	3.67
42.5	23.52	13.32	7.09	4.04	3.67
37.5	30.89	14.85	7.73	4.07	3.67
33.0	37.01	16.59	8.25	4.09	3.67
29.0	42.17	18.20	8.66	4.11	3.67
25.5	47.93	19.46	8.98	4.12	3.67
22.5	52.41	20.44	9.23	4.13	3.67
19.5	56.45	21.31	9.45	4.15	3.67
17.0	59.45	21.95	9.61	4.15	3.67
15.0	61.60	22.40	9.73	4.16	3.67
13.0	63.52	22.81	9.83	4.16	3.67
11.0	65.21	23.16	9.92	4.18	3.67
9.0	66.66	23.46	9.99	4.18	3.67
7.0	67.86	23.71	10.05	4.18	3.67
5.0	68.80	23.90	10.14	4.18	3.67
3.0	69.79	24.10	10.14	4.18	3.67
1.0	69.94	24.13	10.15	4.18	3.67
0.0	70.02	24.14	10.15	4.18	3.67
-1.0	70.14	24.19	10.16	4.18	3.67
-3.0	70.39	24.28	10.17	4.18	3.67
-5.0	69.78	24.19	10.18	4.18	3.67
-7.0	69.21	24.11	10.11	4.18	3.67
-9.0	68.37	23.97	10.07	4.19	3.67
-11.0	67.25	23.77	10.01	4.19	3.67
-13.0	65.86	23.50	9.94	4.17	3.67
-15.0	64.20	23.18	9.86	4.17	3.67
-17.0	62.27	22.79	9.76	4.17	3.67
-19.5	59.49	22.23	9.61	4.16	3.67
-22.5	55.62	21.42	9.41	4.15	3.67
-25.5	51.19	20.47	9.18	4.14	3.67
-29.0	45.33	19.20	8.88	4.13	3.67
-33.0	40.27	17.53	8.48	4.11	3.67

IES FLOOD REPORT**PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES****CANDELA TABULATION - (Cont.)**

-37.5	34.18	15.71	7.97	4.09	3.67
-42.5	26.69	14.15	7.34	4.06	3.67
-47.5	22.34	12.43	6.63	4.03	3.67
-55.0	15.83	9.91	5.91	3.97	3.67
-65.0	10.18	6.99	4.87	3.89	3.67
-75.0	6.19	4.96	4.13	3.80	3.67
-85.0	4.06	3.92	3.80	3.71	3.67
-90.0	3.59	3.62	3.64	3.66	3.67

IES FLOOD REPORT
PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 5226.6

Total Field Lumens (one side of beam only) = 4985.8

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
75	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
65	0.05	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.11
55	0.12	0.25	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.26
47.5	0.43	0.86	0.84	0.81	0.76	0.71	0.63	0.55	0.45	0.46
42.5	0.95	1.90	1.87	1.81	1.72	1.60	1.45	1.28	1.09	1.14
37.5	2.25 *	4.49 *	4.43 *	4.30 *	4.12 *	3.87 *	3.57 *	3.21	2.86	3.16
33	3.84 *	7.64 *	7.53 *	7.30 *	6.98 *	6.55 *	6.05 *	5.54 *	5.05 *	5.62 *
29	5.45 *	10.86 *	10.70 *	10.39 *	9.95 *	9.41 *	8.77 *	8.10 *	7.37 *	8.09 *
25.5	6.66 *	13.27 *	13.09 *	12.75 *	12.27 *	11.67 *	10.96 *	10.14 *	9.23 *	10.17 *
22.5	7.09 *	14.14 *	13.96 *	13.65 *	13.21 *	12.64 *	11.94 *	11.10 *	10.17 *	11.33 *
19.5	8.21 *	16.37 *	16.21 *	15.89 *	15.42 *	14.82 *	14.09 *	13.22 *	12.24 *	13.74 *
17	7.53 *	15.02 *	14.89 *	14.64 *	14.26 *	13.79 *	13.18 *	12.44 *	11.61 *	13.17 *
15	6.38 *	12.72 *	12.60 *	12.40 *	12.13 *	11.79 *	11.34 *	10.76 *	10.07 *	11.52 *
13	6.60 *	13.17 *	13.07 *	12.90 *	12.65 *	12.29 *	11.87 *	11.36 *	10.70 *	12.27 *
11	6.72 *	13.41 *	13.34 *	13.23 *	13.03 *	12.72 *	12.30 *	11.80 *	11.21 *	12.93 *
9	6.82 *	13.62 *	13.55 *	13.43 *	13.25 *	13.02 *	12.66 *	12.16 *	11.59 *	13.47 *
7	6.88 *	13.74 *	13.69 *	13.59 *	13.42 *	13.19 *	12.90 *	12.46 *	11.88 *	13.89 *
5	6.92 *	13.81 *	13.76 *	13.68 *	13.55 *	13.33 *	13.05 *	12.66 *	12.11 *	14.21 *
3	6.94 *	13.86 *	13.80 *	13.72 *	13.61 *	13.42 *	13.14 *	12.79 *	12.28 *	14.44 *
1	6.95 *	13.88 *	13.83 *	13.75 *	13.64 *	13.47 *	13.20 *	12.88 *	12.39 *	14.58 *
0	3.48 *	6.95 *	6.92 *	6.88 *	6.83 *	6.74 *	6.61 *	6.46 *	6.22 *	7.32 *
-1	3.48 *	6.95 *	6.92 *	6.88 *	6.83 *	6.75 *	6.62 *	6.46 *	6.22 *	7.32 *
-3	6.97 *	13.92 *	13.86 *	13.77 *	13.65 *	13.48 *	13.22 *	12.91 *	12.43 *	14.63 *
-5	6.99 *	13.93 *	13.86 *	13.75 *	13.63 *	13.45 *	13.19 *	12.86 *	12.36 *	14.57 *
-7	6.97 *	13.89 *	13.81 *	13.71 *	13.58 *	13.38 *	13.13 *	12.77 *	12.24 *	14.40 *
	6.91 *	13.80 *	13.74 *	13.64 *	13.49 *	13.29 *	13.03 *	12.61 *	12.07 *	14.15 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES

LUMENS TABULATION - (Cont.)

-9	6.86 *	13.70 *	13.64 *	13.54 *	13.39 *	13.18 *	12.85 *	12.39 *	11.85 *	13.83 *
-11	6.81 *	13.59 *	13.52 *	13.42 *	13.25 *	12.97 *	12.58 *	12.12 *	11.55 *	13.38 *
-13	6.75 *	13.46 *	13.36 *	13.21 *	12.98 *	12.65 *	12.26 *	11.77 *	11.13 *	12.82 *
-15	6.62 *	13.18 *	13.05 *	12.86 *	12.60 *	12.28 *	11.85 *	11.28 *	10.60 *	12.18 *
-17	7.97 *	15.87 *	15.71 *	15.44 *	15.06 *	14.59 *	13.98 *	13.24 *	12.41 *	14.14 *
-19.5	8.94 *	17.78 *	17.56 *	17.19 *	16.69 *	16.07 *	15.30 *	14.39 *	13.36 *	15.05 *
-22.5	8.01 *	15.91 *	15.65 *	15.26 *	14.74 *	14.12 *	13.34 *	12.42 *	11.42 *	12.75 *
-25.5	7.87 *	15.60 *	15.30 *	14.85 *	14.26 *	13.53 *	12.69 *	11.75 *	10.71 *	11.82 *
-29	6.80 *	13.46 *	13.17 *	12.74 *	12.16 *	11.46 *	10.66 *	9.83 *	8.95 *	9.85 *
-33	5.15 *	10.19 *	9.95 *	9.60 *	9.13 *	8.56 *	7.91 *	7.26 *	6.62 *	7.36 *
-37.5	3.38 *	6.69 *	6.52 *	6.28 *	5.98 *	5.60 *	5.16 *	4.67 *	4.18 *	4.59 *
-42.5	1.65	3.25	3.15	3.01	2.84	2.62	2.37	2.09	1.79	1.88
-47.5	0.80	1.57	1.52	1.45	1.35	1.24	1.10	0.95	0.79	0.80
-55	0.18	0.36	0.35	0.35	0.34	0.33	0.32	0.31	0.30	0.35
-65	0.07	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.14
-75	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-90										
Total	209.51	417.41	413.32	406.65	397.31	385.15	369.87	351.53	330.03	378.05

Vert. Horizontal Angles

	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
90	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02
85	0.05	0.05	0.06	0.06	0.07	0.06	0.06	0.07	0.07	0.04
75	0.12	0.11	0.12	0.13	0.13	0.12	0.10	0.12	0.10	0.05
65	0.30	0.27	0.29	0.28	0.27	0.23	0.18	0.19	0.15	0.07
55	0.48	0.43	0.44	0.42	0.38	0.32	0.23	0.23	0.16	0.06
47.5	1.13	0.87	0.66	0.47	0.39	0.32	0.22	0.20	0.13	0.05
42.5	3.17	2.42	1.89	1.29	0.77	0.45	0.30	0.26	0.16	0.06
37.5	5.63 *	4.38 *	3.74	2.72	1.56	0.74	0.35	0.30	0.17	0.06
33	8.05 *	6.40 *	5.58 *	4.22	2.64	1.20	0.41	0.32	0.17	0.05
29	10.18 *	8.06 *	7.04 *	5.46 *	3.55	1.72	0.57	0.33	0.17	0.05

IES FLOOD REPORT
PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES

LUMENS TABULATION - (Cont.)

25.5	11.47 *	9.10 *	7.94 *	6.17 *	4.10 *	2.16	0.74	0.32	0.16	0.05
22.5	14.04 *	11.34 *	9.90 *	7.67 *	5.21 *	2.81	0.95	0.36	0.17	0.05
19.5	13.61 *	11.10 *	9.82 *	7.65 *	5.17 *	2.79	0.95	0.34	0.15	0.04
17	12.04 *	9.91 *	8.87 *	6.94 *	4.63 *	2.52	0.90	0.34	0.12	0.03
15	12.93 *	10.75 *	9.71 *	7.60 *	5.06 *	2.82 *	1.06	0.41	0.13	0.03
13	13.71 *	11.50 *	10.46 *	8.22 *	5.52 *	3.13 *	1.20	0.47	0.13	0.03
11	14.36 *	12.14 *	11.12 *	8.83 *	5.98 *	3.40 *	1.33	0.52	0.13	0.03
9	14.89 *	12.65 *	11.69 *	9.36 *	6.38 *	3.63 *	1.44	0.57	0.14	0.03
7	15.32 *	13.07 *	12.14 *	9.79 *	6.70 *	3.81 *	1.52	0.61	0.14	0.04
5	15.63 *	13.38 *	12.49 *	10.11 *	6.95 *	3.95 *	1.58	0.63	0.14	0.04
3	15.81 *	13.58 *	12.72 *	10.32 *	7.10 *	4.04 *	1.62	0.65	0.14	0.04
1	7.94 *	6.83 *	6.41 *	5.21 *	3.59 *	2.04 *	0.82	0.33	0.07	0.02
0	7.95 *	6.84 *	6.42 *	5.22 *	3.60 *	2.05 *	0.82	0.33	0.07	0.02
-1	15.89 *	13.66 *	12.81 *	10.41 *	7.17 *	4.09 *	1.65	0.66	0.14	0.04
-3	15.79 *	13.55 *	12.68 *	10.28 *	7.08 *	4.04 *	1.63	0.65	0.14	0.04
-5	15.58 *	13.32 *	12.42 *	10.04 *	6.90 *	3.95 *	1.59	0.63	0.14	0.04
-7	15.24 *	13.00 *	12.06 *	9.69 *	6.64 *	3.81 *	1.52	0.60	0.14	0.04
-9	14.81 *	12.58 *	11.58 *	9.24 *	6.30 *	3.62 *	1.43	0.56	0.14	0.04
-11	14.26 *	12.03 *	10.99 *	8.70 *	5.89 *	3.38 *	1.31	0.51	0.14	0.03
-13	13.58 *	11.36 *	10.31 *	8.12 *	5.48 *	3.10 *	1.18	0.45	0.13	0.03
-15	12.80 *	10.59 *	9.54 *	7.51 *	5.08 *	2.82 *	1.02	0.38	0.13	0.03
-17	14.68 *	12.05 *	10.72 *	8.41 *	5.77 *	3.17	1.10	0.39	0.16	0.04
-19.5	15.46 *	12.54 *	11.03 *	8.65 *	5.96 *	3.26	1.12	0.42	0.18	0.05
-22.5	12.95 *	10.33 *	9.09 *	7.17 *	4.85 *	2.59	0.90	0.38	0.17	0.05
-25.5	11.87 *	9.47 *	8.37 *	6.60 *	4.35	2.15	0.71	0.38	0.18	0.05
-29	9.87 *	7.93 *	6.99 *	5.36 *	3.40	1.57	0.52	0.36	0.18	0.06
-33	7.40 *	5.82 *	5.01 *	3.68	2.15	1.01	0.43	0.33	0.18	0.06
-37.5	4.56	3.49	2.77	1.90	1.12	0.59	0.35	0.30	0.17	0.06
-42.5	1.84	1.40	1.06	0.71	0.53	0.39	0.26	0.23	0.14	0.05
-47.5	0.81	0.68	0.63	0.54	0.45	0.38	0.27	0.26	0.17	0.07

IES FLOOD REPORT
PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES

LUMENS TABULATION - (Cont.)

-55	0.39	0.35	0.36	0.35	0.33	0.28	0.21	0.22	0.16	0.07
-65	0.16	0.15	0.16	0.16	0.15	0.14	0.12	0.13	0.11	0.05
-75	0.07	0.06	0.07	0.07	0.08	0.07	0.06	0.08	0.07	0.04
-85	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02
-90										
Total	396.83	329.60	298.19	235.78	159.46	88.80	34.76	15.87	6.00	1.91

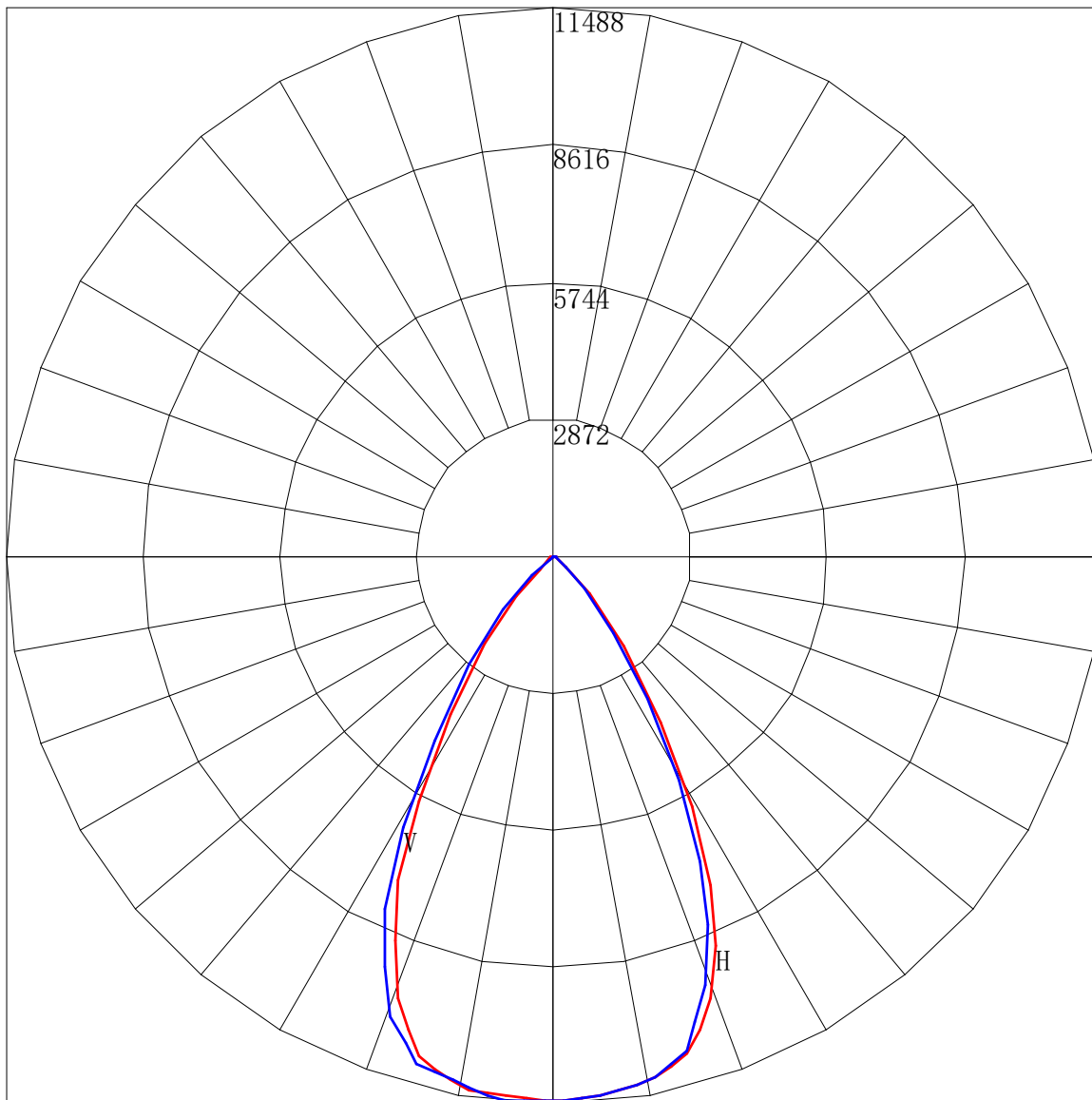
Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00		0.33
85				
	0.02	0.00		1.00
75				
	0.02	0.00		2.02
65				
	0.02	0.00		4.56
55				
	0.02	0.00		9.64
47.5				
	0.01	0.00		19.28
42.5				
	0.02	0.00		47.05
37.5				
	0.01	0.00		81.75
33				
	0.01	0.00		118.15
29				
	0.01	0.00		147.35
25.5				
	0.01	0.00		161.45
22.5				
	0.01	0.00		192.72
19.5				
	0.01	0.00		182.15
17				
	0.01	0.00		158.03
15				
	0.01	0.00		167.37
13				
	0.01	0.00		175.11
11				
	0.01	0.00		181.44
9				
	0.01	0.00		186.42
7				
	0.01	0.00		190.21
5				
	0.01	0.00		192.91
3				
	0.01	0.00		194.59
1				
	0.00	0.00		97.66
0				
	0.00	0.00		97.76

IES FLOOD REPORT
PHOTOMETRIC FILENAME : LFL0200-100W (LIGHT BEAM =60 DEGREE) .IES

LUMENS TABULATION - (Cont.)

-1	0.01	0.00	195.37
-3	0.01	0.00	194.46
-5	0.01	0.00	192.51
-7	0.01	0.00	189.49
-9	0.01	0.00	185.51
-11	0.01	0.00	180.45
-13	0.01	0.00	174.16
-15	0.01	0.00	166.41
-17	0.01	0.00	194.92
-19.5	0.01	0.00	211.01
-22.5	0.01	0.00	182.09
-25.5	0.01	0.00	172.53
-29	0.01	0.00	145.34
-33	0.01	0.00	107.82
-37.5	0.02	0.00	68.38
-42.5	0.01	0.00	31.28
-47.5	0.02	0.00	15.86
-55	0.02	0.00	5.94
-65	0.02	0.00	2.59
-75	0.02	0.00	1.19
-85	0.01	0.00	0.34
-90			
Total	0.52	0.04	5226.6

AXIAL CANDELA DISPLAY

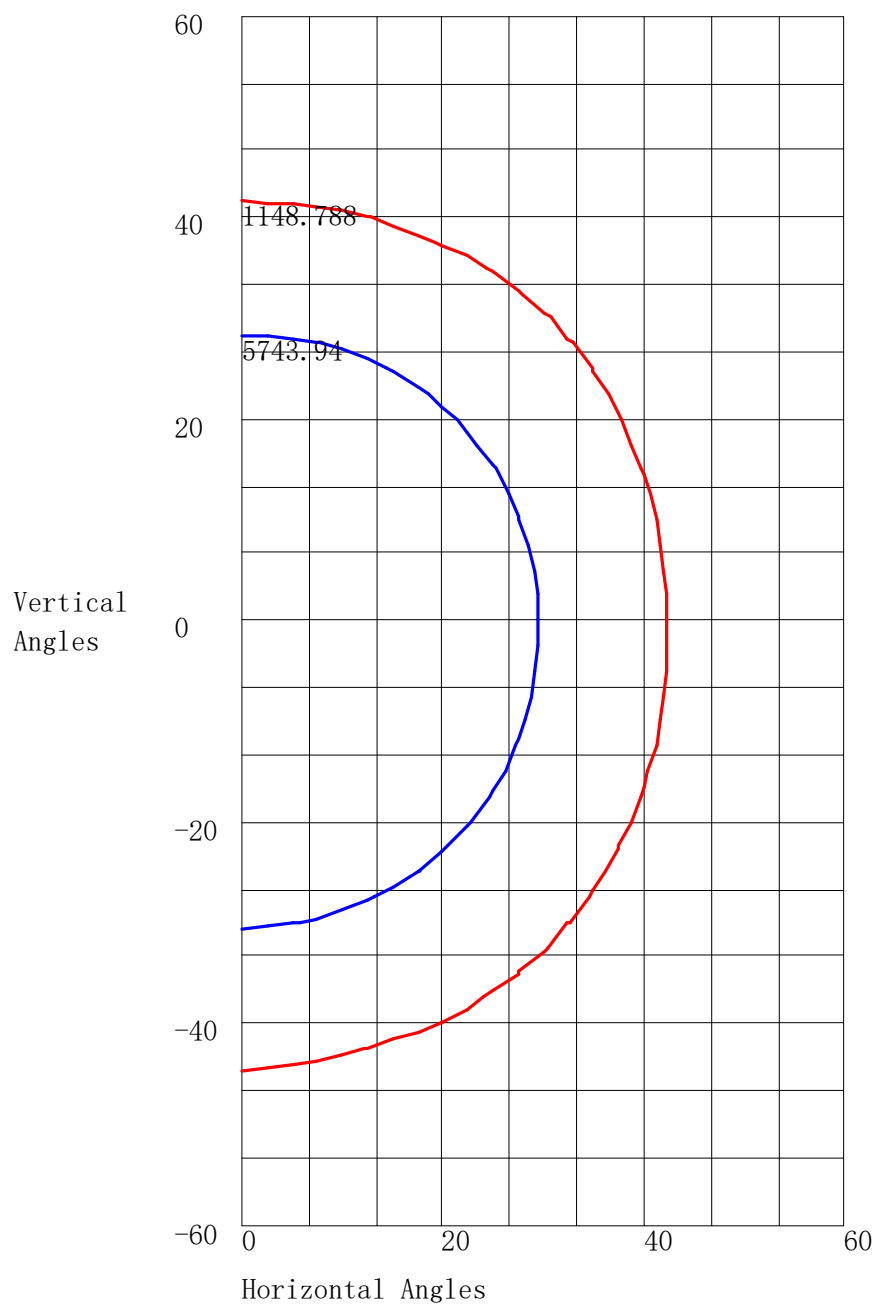


Maximum Candela = 11487.88 Located At Horizontal Angle = 0, Vertical Angle =-5

H - Horizontal Axial Candela

V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 11487.88 Located At Horizontal Angle = 0, Vertical Angle =-5
50% Maximum Candela = 5743.94
10% Maximum Candela = 1148.788