



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[MANUFAC] LARSON ELECTRONICS LLC[LUMCAT]

LEDP5W-60 SPOT CONFIGURATION[LUMINAIRE]

LED UTIL

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

### CHARACTERISTICS

|                              |               |
|------------------------------|---------------|
| NEMA Type                    | 2 H x 2 V     |
| Maximum Candela              | 242300        |
| Maximum Candela Angle        | 0H 0V         |
| Horizontal Beam Angle (50%)  | 11.7          |
| Vertical Beam Angle (50%)    | 10.7          |
| Horizontal Field Angle (10%) | 27.5          |
| Vertical Field Angle (10%)   | 20.5          |
| Lumens Per Lamp              | 5000 (1 lamp) |
| Total Lamp Lumens            | 5000          |
| Beam Lumens                  | 4238          |
| Beam Efficiency              | 85 %          |
| Field Lumens                 | 10288         |
| Field Efficiency             | 206 %         |
| Spill Lumens                 | 11461         |
| Luminaire Lumens             | 21749         |
| Total Efficiency             | 435 %         |
| Total Luminaire Watts        | 1000          |
| Ballast Factor               | 1.00          |



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**AXIAL CANDELA**

| DEG.  | HOR.       | DEG.  | VERT.      |
|-------|------------|-------|------------|
| 90    | 3.536      | 90    | 4.669      |
| 85    | 61.21      | 85    | 45.294     |
| 75    | 237.5      | 75    | 211.5      |
| 65    | 799        | 65    | 745        |
| 55    | 1668.5     | 55    | 1560       |
| 47.5  | 2276.5     | 47.5  | 2156       |
| 42.5  | 2639.5     | 42.5  | 2534       |
| 37.5  | 3038.5     | 37.5  | 2976.25    |
| 33    | 3430       | 33    | 3432.1     |
| 29    | 3788.7     | 29    | 3805       |
| 25.5  | 4130.65    | 25.5  | 4046.5     |
| 22.5  | 4423.75    | 22.5  | 4253.5     |
| 19.5  | 6233.1     | 19.5  | 5016.7     |
| 17    | 14058.6    | 17    | 7970.2     |
| 15    | 20319      | 15    | 10333      |
| 13    | 26579.4    | 13    | 12695.8    |
| 11    | 32839.8    | 11    | 15058.6    |
| 9     | 56603.005  | 9     | 38846.005  |
| 7     | 97869.002  | 7     | 84058.003  |
| 5     | 139135     | 5     | 129270     |
| 3     | 180400.998 | 3     | 174481.997 |
| 1     | 221667     | 1     | 219694     |
| 0     | 242300     | 0     | 242300     |
| -1    | 221667     | -1    | 219694     |
| -3    | 180400.998 | -3    | 174481.997 |
| -5    | 139135     | -5    | 129270     |
| -7    | 97869.002  | -7    | 84058.003  |
| -9    | 56603.005  | -9    | 38846.005  |
| -11   | 32839.8    | -11   | 15058.6    |
| -13   | 26579.4    | -13   | 12695.8    |
| -15   | 20319      | -15   | 10333      |
| -17   | 14058.6    | -17   | 7970.2     |
| -19.5 | 6233.1     | -19.5 | 5016.7     |
| -22.5 | 4423.75    | -22.5 | 4253.5     |
| -25.5 | 4130.65    | -25.5 | 4046.5     |
| -29   | 3788.7     | -29   | 3805       |
| -33   | 3430       | -33   | 3432.1     |
| -37.5 | 3038.5     | -37.5 | 2976.25    |
| -42.5 | 2639.5     | -42.5 | 2534       |
| -47.5 | 2276.5     | -47.5 | 2156       |
| -55   | 1668.5     | -55   | 1560       |
| -65   | 799        | -65   | 745        |
| -75   | 237.5      | -75   | 211.5      |
| -85   | 61.21      | -85   | 45.294     |
| -90   | 3.536      | -90   | 4.669      |

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**CANDELA TABULATION**

Maximum Candela = 242300

Beam Edge = 121150 Cd (50% of Max.)

Field Edge = 24230 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |              |              |              |              |              |              |              |              |              |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                         | <b>-90.0</b>             | <b>-85.0</b> | <b>-75.0</b> | <b>-65.0</b> | <b>-55.0</b> | <b>-47.5</b> | <b>-42.5</b> | <b>-37.5</b> | <b>-33.0</b> | <b>-29.0</b> |
| <b>90.0</b>             | 3.420                    | 3.495        | 3.643        | 3.789        | 3.933        | 4.039        | 4.108        | 4.177        | 4.239        | 4.293        |
| <b>85.0</b>             | 3.430                    | 8.433        | 17.820       | 26.144       | 33.195       | 37.553       | 39.989       | 42.040       | 43.552       | 44.631       |
| <b>75.0</b>             | 3.450                    | 18.185       | 45.886       | 70.534       | 91.493       | 105.489      | 126.388      | 145.409      | 160.767      | 172.905      |
| <b>65.0</b>             | 3.469                    | 27.513       | 72.923       | 117.542      | 204.625      | 264.687      | 301.555      | 335.461      | 408.555      | 485.914      |
| <b>55.0</b>             | 3.486                    | 36.146       | 98.242       | 208.119      | 330.550      | 588.188      | 775.362      | 946.569      | 1085.538     | 1195.821     |
| <b>47.5</b>             | 3.498                    | 42.010       | 116.580      | 270.165      | 592.300      | 963.928      | 1192.845     | 1399.667     | 1569.389     | 1705.774     |
| <b>42.5</b>             | 3.505                    | 45.573       | 139.115      | 308.078      | 785.271      | 1199.758     | 1451.105     | 1685.228     | 1878.989     | 2034.392     |
| <b>37.5</b>             | 3.512                    | 48.827       | 159.693      | 342.834      | 964.666      | 1415.742     | 1694.857     | 1957.263     | 2160.245     | 2319.363     |
| <b>33.0</b>             | 3.517                    | 51.470       | 176.402      | 419.395      | 1112.937     | 1595.570     | 1899.695     | 2170.871     | 2385.459     | 2563.792     |
| <b>29.0</b>             | 3.521                    | 53.578       | 189.717      | 501.617      | 1232.749     | 1742.406     | 2066.630     | 2339.237     | 2572.962     | 2776.167     |
| <b>25.5</b>             | 3.524                    | 55.227       | 200.121      | 566.183      | 1325.056     | 1859.659     | 2185.326     | 2474.994     | 2725.352     | 2978.031     |
| <b>22.5</b>             | 3.527                    | 56.490       | 208.079      | 615.758      | 1396.445     | 1951.030     | 2277.988     | 2581.634     | 2860.308     | 3144.535     |
| <b>19.5</b>             | 3.529                    | 57.610       | 215.126      | 659.783      | 1460.280     | 2033.311     | 2361.527     | 2678.301     | 2995.794     | 3295.862     |
| <b>17.0</b>             | 3.531                    | 58.432       | 220.285      | 692.089      | 1507.436     | 2091.649     | 2423.672     | 2750.546     | 3096.586     | 3408.911     |
| <b>15.0</b>             | 3.532                    | 59.015       | 223.939      | 714.990      | 1541.061     | 2129.760     | 2468.218     | 2802.918     | 3168.653     | 3489.939     |
| <b>13.0</b>             | 3.533                    | 59.531       | 227.165      | 735.222      | 1570.935     | 2163.717     | 2507.969     | 2859.281     | 3232.641     | 3561.947     |
| <b>11.0</b>             | 3.534                    | 59.980       | 229.961      | 752.737      | 1596.972     | 2193.403     | 2542.751     | 2908.285     | 3288.154     | 3624.362     |
| <b>9.0</b>              | 3.534                    | 60.360       | 232.322      | 767.498      | 1619.091     | 2218.715     | 2572.410     | 2949.701     | 3334.845     | 3676.669     |
| <b>7.0</b>              | 3.535                    | 60.671       | 234.245      | 779.468      | 1637.221     | 2239.562     | 2596.814     | 2983.345     | 3372.428     | 3719.572     |
| <b>5.0</b>              | 3.535                    | 60.913       | 235.728      | 788.618      | 1651.303     | 2255.875     | 2615.853     | 3009.086     | 3400.694     | 3753.239     |
| <b>3.0</b>              | 3.535                    | 61.084       | 236.769      | 794.921      | 1661.287     | 2267.597     | 2629.443     | 3026.845     | 3419.517     | 3776.111     |
| <b>1.0</b>              | 3.536                    | 61.186       | 237.367      | 798.360      | 1667.135     | 2274.693     | 2637.529     | 3036.607     | 3428.864     | 3787.498     |
| <b>0.0</b>              | 3.536                    | 61.210       | 237.500      | 799.000      | 1668.500     | 2276.500     | 2639.500     | 3038.500     | 3430.000     | 3788.700     |
| <b>-1.0</b>             | 3.536                    | 61.186       | 237.367      | 798.360      | 1667.135     | 2274.693     | 2637.529     | 3036.607     | 3428.864     | 3787.498     |
| <b>-3.0</b>             | 3.535                    | 61.084       | 236.769      | 794.921      | 1661.287     | 2267.597     | 2629.443     | 3026.845     | 3419.517     | 3776.111     |
| <b>-5.0</b>             | 3.535                    | 60.913       | 235.728      | 788.618      | 1651.303     | 2255.875     | 2615.853     | 3009.086     | 3400.694     | 3753.239     |
| <b>-7.0</b>             | 3.535                    | 60.671       | 234.245      | 779.468      | 1637.221     | 2239.562     | 2596.814     | 2983.345     | 3372.428     | 3719.572     |
| <b>-9.0</b>             | 3.534                    | 60.360       | 232.322      | 767.498      | 1619.091     | 2218.715     | 2572.410     | 2949.701     | 3334.845     | 3676.669     |
| <b>-11.0</b>            | 3.534                    | 59.980       | 229.961      | 752.737      | 1596.972     | 2193.403     | 2542.751     | 2908.285     | 3288.154     | 3624.362     |
| <b>-13.0</b>            | 3.533                    | 59.531       | 227.165      | 735.222      | 1570.935     | 2163.717     | 2507.969     | 2859.281     | 3232.641     | 3561.947     |
| <b>-15.0</b>            | 3.532                    | 59.015       | 223.939      | 714.990      | 1541.061     | 2129.760     | 2468.218     | 2802.918     | 3168.653     | 3489.939     |
| <b>-17.0</b>            | 3.531                    | 58.432       | 220.285      | 692.089      | 1507.436     | 2091.649     | 2423.672     | 2750.546     | 3096.586     | 3408.911     |
| <b>-19.5</b>            | 3.529                    | 57.610       | 215.126      | 659.783      | 1460.280     | 2033.311     | 2361.527     | 2678.301     | 2995.794     | 3295.862     |
| <b>-22.5</b>            | 3.527                    | 56.490       | 208.079      | 615.758      | 1396.445     | 1951.030     | 2277.988     | 2581.634     | 2860.308     | 3144.535     |
| <b>-25.5</b>            | 3.524                    | 55.227       | 200.121      | 566.183      | 1325.056     | 1859.659     | 2185.326     | 2474.994     | 2725.352     | 2978.031     |
| <b>-29.0</b>            | 3.521                    | 53.578       | 189.717      | 501.617      | 1232.749     | 1742.406     | 2066.630     | 2339.237     | 2572.962     | 2776.167     |
| <b>-33.0</b>            | 3.517                    | 51.470       | 176.402      | 419.395      | 1112.937     | 1595.570     | 1899.695     | 2170.871     | 2385.459     | 2563.792     |
| <b>-37.5</b>            | 3.512                    | 48.827       | 159.693      | 342.834      | 964.666      | 1415.742     | 1694.857     | 1957.263     | 2160.245     | 2319.363     |
| <b>-42.5</b>            | 3.505                    | 45.573       | 139.115      | 308.078      | 785.271      | 1199.758     | 1451.105     | 1685.228     | 1878.989     | 2034.392     |
| <b>-47.5</b>            | 3.498                    | 42.010       | 116.580      | 270.165      | 592.300      | 963.928      | 1192.845     | 1399.667     | 1569.389     | 1705.774     |
| <b>-55.0</b>            | 3.486                    | 36.146       | 98.242       | 208.119      | 330.550      | 588.188      | 775.362      | 946.569      | 1085.538     | 1195.821     |
| <b>-65.0</b>            | 3.469                    | 27.513       | 72.923       | 117.542      | 204.625      | 264.687      | 301.555      | 335.461      | 408.555      | 485.914      |
| <b>-75.0</b>            | 3.450                    | 18.185       | 45.886       | 70.534       | 91.493       | 105.489      | 126.388      | 145.409      | 160.767      | 172.905      |
| <b>-85.0</b>            | 3.430                    | 8.433        | 17.820       | 26.144       | 33.195       | 37.553       | 39.989       | 42.040       | 43.552       | 44.631       |
| <b>-90.0</b>            | 3.420                    | 3.495        | 3.643        | 3.789        | 3.933        | 4.039        | 4.108        | 4.177        | 4.239        | 4.293        |

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CANDELA TABULATION - (Cont.)

| Vert.<br>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            | 4.339             | 4.379        | 4.419        | 4.451        | 4.478        | 4.503        | 4.529        | 4.555       | 4.581       | 4.606       |
| 85.0            | 45.370            | 45.854       | 46.201       | 46.386       | 46.468       | 46.492       | 46.458       | 46.368      | 46.222      | 46.023      |
| 75.0            | 182.289           | 189.371      | 195.533      | 199.945      | 202.991      | 205.598      | 207.762      | 209.475     | 210.734     | 211.534     |
| 65.0            | 545.847           | 591.247      | 630.982      | 659.680      | 679.704      | 697.092      | 711.825      | 723.889     | 733.272     | 739.972     |
| 55.0            | 1280.324          | 1344.630     | 1401.085     | 1441.916     | 1470.401     | 1495.094     | 1515.935     | 1532.873    | 1545.869    | 1554.894    |
| 47.5            | 1812.810          | 1894.695     | 1966.897     | 2017.442     | 2050.531     | 2079.385     | 2103.873     | 2123.875    | 2139.289    | 2150.026    |
| 42.5            | 2144.905          | 2230.547     | 2307.016     | 2363.197     | 2402.904     | 2437.735     | 2467.499     | 2492.023    | 2511.154    | 2524.761    |
| 37.5            | 2447.138          | 2546.977     | 2636.840     | 2703.373     | 2751.269     | 2806.947     | 2855.419     | 2896.270    | 2929.110    | 2953.584    |
| 33.0            | 2708.341          | 2838.885     | 2973.970     | 3076.143     | 3150.282     | 3217.031     | 3275.798     | 3326.000    | 3367.078    | 3398.514    |
| 29.0            | 2972.306          | 3137.571     | 3291.080     | 3408.478     | 3494.516     | 3572.731     | 3642.334     | 3702.529    | 3746.442    | 3774.898    |
| 25.5            | 3201.809          | 3383.856     | 3554.757     | 3686.902     | 3773.258     | 3844.843     | 3906.137     | 3956.669    | 3996.107    | 4024.299    |
| 22.5            | 3384.270          | 3581.088     | 3761.047     | 3884.913     | 3973.114     | 4050.677     | 4116.765     | 4170.645    | 4211.759    | 4239.796    |
| 19.5            | 3551.175          | 3758.366     | 3938.692     | 4073.814     | 4170.403     | 4255.446     | 4327.719     | 4386.081    | 4429.589    | 4457.633    |
| 17.0            | 3676.552          | 3887.494     | 4080.884     | 4226.924     | 4331.926     | 4424.724     | 4503.650     | 4588.830    | 4658.239    | 4718.920    |
| 15.0            | 3764.797          | 3984.911     | 4189.689     | 4345.578     | 4458.425     | 4557.075     | 4644.416     | 4729.987    | 4809.866    | 4877.388    |
| 13.0            | 3844.941          | 4076.036     | 4292.970     | 4459.736     | 4582.731     | 4682.963     | 4778.519     | 4861.274    | 4933.984    | 5000.584    |
| 11.0            | 3917.436          | 4159.717     | 4389.428     | 4568.052     | 4699.739     | 4794.369     | 4874.283     | 4941.641    | 5000.821    | 5054.842    |
| 9.0             | 3981.224          | 4234.644     | 4477.494     | 4698.488     | 4822.666     | 4929.529     | 5000.337     | 5054.820    | 5100.122    | 5140.860    |
| 7.0             | 4035.182          | 4299.374     | 4555.329     | 4810.260     | 4965.243     | 5090.832     | 5187.159     | 5254.256    | 5303.591    | 5348.427 *  |
| 5.0             | 4078.173          | 4352.377     | 4620.873     | 4884.721     | 5050.146     | 5190.940     | 5305.277     | 5393.555    | 5468.293    | 5531.122 *  |
| 3.0             | 4109.087          | 4392.114     | 4669.284     | 4932.962     | 5100.253     | 5250.365     | 5374.749     | 5478.524    | 5561.371    | 5634.427 *  |
| 1.0             | 4126.916          | 4417.145     | 4703.380     | 4975.329     | 5144.806     | 5296.579     | 5421.690     | 5525.422    | 5609.155    | 5673.081 *  |
| 0.0             | 4130.650          | 4423.750     | 4710.100     | 4982.600     | 5153.031     | 5305.790     | 5431.839     | 5538.005    | 5625.769    | 5697.000 *  |
| -1.0            | 4126.916          | 4417.145     | 4703.380     | 4975.329     | 5144.806     | 5296.579     | 5421.690     | 5525.422    | 5609.155    | 5673.081 *  |
| -3.0            | 4109.087          | 4392.114     | 4669.284     | 4932.962     | 5100.253     | 5250.365     | 5374.749     | 5478.524    | 5561.371    | 5634.426 *  |
| -5.0            | 4078.173          | 4352.377     | 4620.873     | 4884.721     | 5050.146     | 5190.940     | 5305.277     | 5393.555    | 5468.293    | 5531.122 *  |
| -7.0            | 4035.182          | 4299.374     | 4555.329     | 4810.260     | 4965.243     | 5090.832     | 5187.159     | 5254.256    | 5303.591    | 5348.427 *  |
| -9.0            | 3981.224          | 4234.644     | 4477.494     | 4698.488     | 4822.666     | 4929.529     | 5000.337     | 5054.820    | 5100.122    | 5140.862    |
| -11.0           | 3917.436          | 4159.717     | 4389.428     | 4568.052     | 4699.739     | 4794.369     | 4874.283     | 4941.641    | 5000.821    | 5054.843    |
| -13.0           | 3844.941          | 4076.036     | 4292.970     | 4459.736     | 4582.731     | 4682.963     | 4778.519     | 4861.274    | 4933.984    | 5000.584    |
| -15.0           | 3764.797          | 3984.911     | 4189.689     | 4345.578     | 4458.425     | 4557.075     | 4644.416     | 4729.987    | 4809.866    | 4877.388    |
| -17.0           | 3676.552          | 3887.494     | 4080.884     | 4226.924     | 4331.926     | 4424.724     | 4503.650     | 4588.830    | 4658.239    | 4718.919    |
| -19.5           | 3551.175          | 3758.366     | 3938.692     | 4073.814     | 4170.403     | 4255.446     | 4327.719     | 4386.081    | 4429.589    | 4457.633    |
| -22.5           | 3384.270          | 3581.088     | 3761.047     | 3884.913     | 3973.114     | 4050.677     | 4116.765     | 4170.645    | 4211.759    | 4239.796    |
| -25.5           | 3201.809          | 3383.856     | 3554.757     | 3686.902     | 3773.258     | 3844.843     | 3906.137     | 3956.669    | 3996.107    | 4024.299    |
| -29.0           | 2972.306          | 3137.571     | 3291.080     | 3408.478     | 3494.516     | 3572.731     | 3642.334     | 3702.529    | 3746.442    | 3774.898    |
| -33.0           | 2708.341          | 2838.885     | 2973.970     | 3076.143     | 3150.282     | 3217.031     | 3275.798     | 3326.000    | 3367.078    | 3398.514    |
| -37.5           | 2447.138          | 2546.977     | 2636.840     | 2703.373     | 2751.269     | 2806.947     | 2855.419     | 2896.270    | 2929.110    | 2953.584    |
| -42.5           | 2144.905          | 2230.547     | 2307.015     | 2363.197     | 2402.904     | 2437.735     | 2467.499     | 2492.023    | 2511.154    | 2524.761    |
| -47.5           | 1812.810          | 1894.695     | 1966.897     | 2017.442     | 2050.531     | 2079.385     | 2103.873     | 2123.875    | 2139.289    | 2150.026    |
| -55.0           | 1280.324          | 1344.630     | 1401.085     | 1441.916     | 1470.401     | 1495.094     | 1515.935     | 1532.873    | 1545.869    | 1554.894    |
| -65.0           | 545.847           | 591.247      | 630.982      | 659.680      | 679.704      | 697.092      | 711.825      | 723.889     | 733.272     | 739.972     |
| -75.0           | 182.289           | 189.371      | 195.533      | 199.945      | 202.991      | 205.598      | 207.762      | 209.475     | 210.734     | 211.534     |
| -85.0           | 45.370            | 45.854       | 46.201       | 46.386       | 46.468       | 46.492       | 46.458       | 46.368      | 46.222      | 46.023      |
| -90.0           | 4.339             | 4.379        | 4.419        | 4.451        | 4.478        | 4.503        | 4.529        | 4.555       | 4.581       | 4.606       |

| Vert.<br>Angles | Horizontal 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            | 4.632             | 4.657       | 4.669      | 4.657      | 4.632      | 4.606      | 4.581      | 4.555      | 4.529       | 4.503       |
| 85.0            | 45.770            | 45.465      | 45.294     | 45.465     | 45.770     | 46.023     | 46.222     | 46.368     | 46.458      | 46.492      |
| 75.0            | 211.870           | 211.741     | 211.500    | 211.741    | 211.870    | 211.534    | 210.734    | 209.475    | 207.762     | 205.598     |
| 65.0            | 743.989           | 745.330     | 745.000    | 745.330    | 743.989    | 739.972    | 733.272    | 723.889    | 711.826     | 697.092     |

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES

CANDELA TABULATION - (Cont.)

|       |            |            |            |            |            |            |           |           |           |           |
|-------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| 55.0  | 1559.931   | 1560.974   | 1560.000   | 1560.974   | 1559.931   | 1554.894   | 1545.869  | 1532.873  | 1515.935  | 1495.094  |
| 47.5  | 2156.017   | 2157.212   | 2156.000   | 2157.212   | 2156.017   | 2150.026   | 2139.289  | 2123.875  | 2103.873  | 2079.385  |
| 42.5  | 2532.739   | 2535.016   | 2534.000   | 2535.016   | 2532.739   | 2524.761   | 2511.154  | 2492.023  | 2467.499  | 2437.735  |
| 37.5  | 2969.379   | 2976.237   | 2976.250   | 2976.237   | 2969.379   | 2953.584   | 2929.110  | 2896.270  | 2855.419  | 2806.947  |
| 33.0  | 3419.848   | 3430.700   | 3432.100   | 3430.700   | 3419.848   | 3398.514   | 3367.078  | 3326.000  | 3275.798  | 3217.031  |
| 29.0  | 3793.852   | 3803.530   | 3805.000   | 3803.530   | 3793.852   | 3774.898   | 3746.442  | 3702.529  | 3642.334  | 3572.731  |
| 25.5  | 4041.301   | 4047.395   | 4046.500   | 4047.395   | 4041.301   | 4024.299   | 3996.107  | 3956.669  | 3906.137  | 3844.843  |
| 22.5  | 4254.753   | 4256.970   | 4253.500   | 4256.970   | 4254.753   | 4239.796   | 4211.759  | 4170.645  | 4116.765  | 4050.677  |
| 19.5  | 4834.137   | 5026.465   | 5016.700   | 5026.465   | 4834.137   | 4457.633   | 4429.589  | 4386.081  | 4327.719  | 4255.446  |
| 17.0  | 8300.334   | 8165.527   | 7970.200   | 8165.527   | 8300.335   | 8018.920   | 7258.240  | 5988.830  | 4503.650  | 4424.724  |
| 15.0  | 11188.180  | 10719.942  | 10333.000  | 10719.941  | 11188.179  | 11147.389  | 10519.867 | 9279.987  | 7444.416  | 5057.075  |
| 13.0  | 14226.722  | 13332.040  | 12695.800  | 13332.041  | 14226.722  | 14475.582  | 13984.504 | 12742.775 | 10798.520 | 8229.964  |
| 11.0  | 17492.024  | 16033.257  | 15058.600  | 16033.259  | 17492.023  | 18089.843  | 17720.819 | 16416.097 | 14283.393 | 11454.369 |
| 9.0   | 31779.405  | 38868.064  | 38846.005  | 38868.063  | 31779.403  | 22126.862  | 21820.811 | 20337.847 | 17894.127 | 14698.530 |
| 7.0   | 74087.796  | 83722.832  | 84058.003  | 83722.832  | 74087.797  | 54721.424  | 28591.242 | 24526.239 | 21592.648 | 17898.082 |
| 5.0   | 114493.575 | 128303.072 | 129270.000 | 128303.072 | 114493.578 | 9541.122   | 58293.502 | 28935.556 | 25277.902 | 20940.143 |
| 3.0   | 150600.848 | 172095.414 | 174481.991 | 172095.414 | 150600.847 | 118083.428 | 1371.710  | 42837.523 | 28749.736 | 23650.666 |
| 1.0   | 175778.929 | 211726.320 | 19694.000  | 211726.320 | 175778.929 | 235836.089 | 25155.958 | 54221.408 | 31690.895 | 25797.905 |
| 0.0   | 180400.998 | 21667.000  | 2300.000   | 21667.000  | 180400.998 | 39135.000  | 97869.002 | 56603.005 | 32839.800 | 26579.400 |
| -1.0  | 175778.929 | 211726.320 | 19694.000  | 211726.320 | 175778.929 | 235836.089 | 25155.958 | 54221.408 | 31690.895 | 25797.905 |
| -3.0  | 150600.848 | 172095.414 | 174481.991 | 172095.414 | 150600.847 | 118083.428 | 1371.710  | 42837.523 | 28749.736 | 23650.666 |
| -5.0  | 114493.575 | 128303.072 | 129270.000 | 128303.072 | 114493.578 | 9541.122   | 58293.502 | 28935.556 | 25277.902 | 20940.145 |
| -7.0  | 74087.796  | 83722.832  | 84058.003  | 83722.832  | 74087.795  | 54721.427  | 28591.246 | 24526.236 | 21592.648 | 17898.083 |
| -9.0  | 31779.406  | 38868.063  | 38846.005  | 38868.063  | 31779.406  | 22126.862  | 21820.811 | 20337.847 | 17894.125 | 14698.528 |
| -11.0 | 17492.023  | 16033.256  | 15058.600  | 16033.256  | 17492.023  | 18089.843  | 17720.821 | 16416.097 | 14283.392 | 11454.369 |
| -13.0 | 14226.722  | 13332.039  | 12695.800  | 13332.039  | 14226.722  | 14475.584  | 13984.502 | 12742.775 | 10798.519 | 8229.963  |
| -15.0 | 11188.180  | 10719.941  | 10333.000  | 10719.941  | 11188.180  | 11147.388  | 10519.866 | 9279.987  | 7444.416  | 5057.075  |
| -17.0 | 8300.334   | 8165.527   | 7970.200   | 8165.527   | 8300.334   | 8018.919   | 7258.240  | 5988.830  | 4503.650  | 4424.724  |
| -19.5 | 4834.137   | 5026.465   | 5016.700   | 5026.465   | 4834.137   | 4457.633   | 4429.589  | 4386.081  | 4327.719  | 4255.446  |
| -22.5 | 4254.753   | 4256.970   | 4253.500   | 4256.970   | 4254.753   | 4239.796   | 4211.759  | 4170.645  | 4116.765  | 4050.677  |
| -25.5 | 4041.301   | 4047.395   | 4046.500   | 4047.395   | 4041.301   | 4024.299   | 3996.107  | 3956.669  | 3906.137  | 3844.843  |
| -29.0 | 3793.852   | 3803.530   | 3805.000   | 3803.530   | 3793.852   | 3774.898   | 3746.442  | 3702.529  | 3642.334  | 3572.731  |
| -33.0 | 3419.848   | 3430.700   | 3432.100   | 3430.700   | 3419.848   | 3398.514   | 3367.078  | 3326.000  | 3275.798  | 3217.031  |
| -37.5 | 2969.379   | 2976.237   | 2976.250   | 2976.237   | 2969.379   | 2953.584   | 2929.110  | 2896.270  | 2855.419  | 2806.947  |
| -42.5 | 2532.739   | 2535.016   | 2534.000   | 2535.016   | 2532.739   | 2524.761   | 2511.154  | 2492.023  | 2467.499  | 2437.735  |
| -47.5 | 2156.017   | 2157.212   | 2156.000   | 2157.212   | 2156.017   | 2150.026   | 2139.289  | 2123.875  | 2103.873  | 2079.385  |
| -55.0 | 1559.931   | 1560.974   | 1560.000   | 1560.974   | 1559.931   | 1554.894   | 1545.869  | 1532.873  | 1515.935  | 1495.094  |
| -65.0 | 743.989    | 745.330    | 745.000    | 745.330    | 743.989    | 739.972    | 733.272   | 723.889   | 711.825   | 697.092   |
| -75.0 | 211.870    | 211.741    | 211.500    | 211.741    | 211.870    | 211.534    | 210.734   | 209.475   | 207.762   | 205.598   |
| -85.0 | 45.770     | 45.465     | 45.294     | 45.465     | 45.770     | 46.023     | 46.222    | 46.368    | 46.458    | 46.492    |
| -90.0 | 4.632      | 4.657      | 4.669      | 4.657      | 4.632      | 4.606      | 4.581     | 4.555     | 4.529     | 4.503     |

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 | 4.478       | 4.451       | 4.419       | 4.379       | 4.339       | 4.293       | 4.239       | 4.177       | 4.108       | 4.039       |
| 85.0 | 46.468      | 46.386      | 46.201      | 45.854      | 45.370      | 44.631      | 43.552      | 42.040      | 39.989      | 37.553      |
| 75.0 | 202.991     | 199.945     | 195.533     | 189.371     | 182.289     | 172.905     | 160.767     | 145.409     | 126.388     | 105.489     |
| 65.0 | 679.704     | 659.680     | 630.982     | 591.247     | 545.847     | 485.914     | 408.555     | 335.461     | 301.555     | 264.687     |
| 55.0 | 1470.401    | 1441.916    | 1401.085    | 1344.630    | 1280.324    | 1195.821    | 1085.538    | 946.569     | 775.362     | 588.188     |
| 47.5 | 2050.531    | 2017.442    | 1966.897    | 1894.695    | 1812.810    | 1705.774    | 1569.389    | 1399.667    | 1192.845    | 963.928     |
| 42.5 | 2402.904    | 2363.197    | 2307.015    | 2230.547    | 2144.905    | 2034.392    | 1878.989    | 1685.228    | 1451.105    | 1199.758    |
| 37.5 | 2751.269    | 2703.373    | 2636.840    | 2546.977    | 2447.138    | 2319.363    | 2160.245    | 1957.263    | 1694.857    | 1415.742    |
| 33.0 | 3150.282    | 3076.143    | 2973.970    | 2838.885    | 2708.341    | 2563.792    | 2385.459    | 2170.871    | 1899.695    | 1595.570    |
| 29.0 | 3494.516    | 3408.478    | 3291.080    | 3137.571    | 2972.306    | 2776.167    | 2572.962    | 2339.237    | 2066.630    | 1742.406    |
| 25.5 | 3773.258    | 3686.902    | 3554.757    | 3383.856    | 3201.809    | 2978.031    | 2725.352    | 2474.994    | 2185.326    | 1859.659    |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES**

**CANDELA TABULATION - (Cont.)**

|       |                    |          |          |          |          |          |          |          |          |          |
|-------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 22.5  | 3973.114           | 3884.913 | 3761.047 | 3581.088 | 3384.270 | 3144.535 | 2860.308 | 2581.634 | 2277.988 | 1951.030 |
| 19.5  | 4170.403           | 4073.814 | 3938.692 | 3758.366 | 3551.175 | 3295.862 | 2995.794 | 2678.301 | 2361.527 | 2033.311 |
| 17.0  | 4331.926           | 4226.924 | 4080.884 | 3887.494 | 3676.552 | 3408.911 | 3096.586 | 2750.546 | 2423.672 | 2091.649 |
| 15.0  | 4458.425           | 4345.578 | 4189.689 | 3984.911 | 3764.797 | 3489.939 | 3168.653 | 2802.918 | 2468.218 | 2129.760 |
| 13.0  | 5123.731           | 4459.736 | 4292.970 | 4076.036 | 3844.941 | 3561.947 | 3232.641 | 2859.281 | 2507.969 | 2163.717 |
| 11.0  | 8054.739           | 4568.052 | 4389.428 | 4159.717 | 3917.436 | 3624.362 | 3288.154 | 2908.285 | 2542.751 | 2193.403 |
| 9.0   | 10922.6666698.488  | 4477.494 | 4234.644 | 3981.224 | 3676.669 | 3334.845 | 2949.701 | 2572.410 | 2218.715 |          |
| 7.0   | 13655.2429010.261  | 4555.329 | 4299.374 | 4035.182 | 3719.571 | 3372.428 | 2983.345 | 2596.814 | 2239.562 |          |
| 5.0   | 16146.31611034.473 | 4620.873 | 4352.377 | 4078.173 | 3753.239 | 3400.694 | 3009.086 | 2615.853 | 2255.875 |          |
| 3.0   | 18253.49412656.962 | 5469.284 | 4392.114 | 4109.087 | 3776.111 | 3419.517 | 3026.845 | 2629.443 | 2267.597 |          |
| 1.0   | 19806.30313750.329 | 6119.381 | 4417.145 | 4126.916 | 3787.498 | 3428.864 | 3036.607 | 2637.529 | 2274.693 |          |
| 0.0   | 20319.00014058.600 | 6233.100 | 4423.750 | 4130.650 | 3788.700 | 3430.000 | 3038.500 | 2639.500 | 2276.500 |          |
| -1.0  | 19806.30313750.329 | 6119.381 | 4417.145 | 4126.916 | 3787.498 | 3428.864 | 3036.607 | 2637.529 | 2274.693 |          |
| -3.0  | 18253.49412656.962 | 5469.284 | 4392.114 | 4109.087 | 3776.111 | 3419.517 | 3026.845 | 2629.443 | 2267.597 |          |
| -5.0  | 16146.31611034.472 | 4620.873 | 4352.377 | 4078.173 | 3753.239 | 3400.694 | 3009.086 | 2615.853 | 2255.875 |          |
| -7.0  | 13655.2429010.260  | 4555.329 | 4299.374 | 4035.182 | 3719.571 | 3372.428 | 2983.345 | 2596.814 | 2239.562 |          |
| -9.0  | 10922.6666698.488  | 4477.494 | 4234.644 | 3981.224 | 3676.669 | 3334.845 | 2949.701 | 2572.410 | 2218.715 |          |
| -11.0 | 8054.739           | 4568.052 | 4389.428 | 4159.717 | 3917.436 | 3624.362 | 3288.154 | 2908.285 | 2542.751 | 2193.403 |
| -13.0 | 5123.732           | 4459.736 | 4292.970 | 4076.036 | 3844.941 | 3561.947 | 3232.641 | 2859.281 | 2507.969 | 2163.717 |
| -15.0 | 4458.425           | 4345.578 | 4189.689 | 3984.911 | 3764.797 | 3489.939 | 3168.653 | 2802.918 | 2468.218 | 2129.760 |
| -17.0 | 4331.926           | 4226.924 | 4080.884 | 3887.494 | 3676.552 | 3408.911 | 3096.586 | 2750.546 | 2423.672 | 2091.649 |
| -19.5 | 4170.403           | 4073.814 | 3938.692 | 3758.366 | 3551.175 | 3295.862 | 2995.794 | 2678.301 | 2361.527 | 2033.311 |
| -22.5 | 3973.114           | 3884.913 | 3761.047 | 3581.088 | 3384.270 | 3144.535 | 2860.308 | 2581.634 | 2277.988 | 1951.030 |
| -25.5 | 3773.258           | 3686.902 | 3554.757 | 3383.856 | 3201.809 | 2978.031 | 2725.352 | 2474.994 | 2185.326 | 1859.659 |
| -29.0 | 3494.516           | 3408.478 | 3291.080 | 3137.571 | 2972.306 | 2776.167 | 2572.962 | 2339.237 | 2066.630 | 1742.406 |
| -33.0 | 3150.282           | 3076.143 | 2973.970 | 2838.885 | 2708.341 | 2563.792 | 2385.459 | 2170.871 | 1899.695 | 1595.570 |
| -37.5 | 2751.269           | 2703.373 | 2636.840 | 2546.977 | 2447.138 | 2319.363 | 2160.245 | 1957.263 | 1694.857 | 1415.742 |
| -42.5 | 2402.904           | 2363.197 | 2307.015 | 2230.547 | 2144.905 | 2034.392 | 1878.989 | 1685.228 | 1451.105 | 1199.758 |
| -47.5 | 2050.531           | 2017.442 | 1966.897 | 1894.695 | 1812.810 | 1705.774 | 1569.389 | 1399.667 | 1192.845 | 963.928  |
| -55.0 | 1470.401           | 1441.916 | 1401.085 | 1344.630 | 1280.324 | 1195.821 | 1085.538 | 946.569  | 775.362  | 588.188  |
| -65.0 | 679.704            | 659.680  | 630.982  | 591.247  | 545.847  | 485.914  | 408.555  | 335.461  | 301.555  | 264.687  |
| -75.0 | 202.991            | 199.945  | 195.533  | 189.371  | 182.289  | 172.905  | 160.767  | 145.409  | 126.388  | 105.489  |
| -85.0 | 46.468             | 46.386   | 46.201   | 45.854   | 45.370   | 44.631   | 43.552   | 42.040   | 39.989   | 37.553   |
| -90.0 | 4.478              | 4.451    | 4.419    | 4.379    | 4.339    | 4.293    | 4.239    | 4.177    | 4.108    | 4.039    |

| Vert.<br>Angles | Horizontal Angles |         |         |        |       |
|-----------------|-------------------|---------|---------|--------|-------|
|                 | 55.0              | 65.0    | 75.0    | 85.0   | 90.0  |
| 90.0            | 3.933             | 3.789   | 3.643   | 3.495  | 3.420 |
| 85.0            | 33.195            | 26.144  | 17.820  | 8.433  | 3.430 |
| 75.0            | 91.493            | 70.534  | 45.886  | 18.185 | 3.450 |
| 65.0            | 204.625           | 117.542 | 72.923  | 27.513 | 3.469 |
| 55.0            | 330.550           | 208.119 | 98.242  | 36.146 | 3.486 |
| 47.5            | 592.300           | 270.165 | 116.580 | 42.010 | 3.498 |
| 42.5            | 785.271           | 308.078 | 139.115 | 45.573 | 3.505 |
| 37.5            | 964.666           | 342.834 | 159.693 | 48.827 | 3.512 |
| 33.0            | 1112.937          | 419.395 | 176.402 | 51.470 | 3.517 |
| 29.0            | 1232.749          | 501.617 | 189.717 | 53.578 | 3.521 |
| 25.5            | 1325.056          | 566.183 | 200.121 | 55.227 | 3.524 |
| 22.5            | 1396.445          | 615.758 | 208.079 | 56.490 | 3.527 |
| 19.5            | 1460.280          | 659.783 | 215.126 | 57.610 | 3.529 |
| 17.0            | 1507.436          | 692.089 | 220.285 | 58.432 | 3.531 |
| 15.0            | 1541.061          | 714.990 | 223.939 | 59.015 | 3.532 |
| 13.0            | 1570.935          | 735.222 | 227.165 | 59.531 | 3.533 |
| 11.0            | 1596.972          | 752.737 | 229.961 | 59.980 | 3.534 |
| 9.0             | 1619.091          | 767.498 | 232.322 | 60.360 | 3.534 |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES**

**CANDELA TABULATION - (Cont.)**

|              |          |         |         |        |       |
|--------------|----------|---------|---------|--------|-------|
| <b>7.0</b>   | 1637.221 | 779.468 | 234.245 | 60.671 | 3.535 |
| <b>5.0</b>   | 1651.303 | 788.618 | 235.728 | 60.913 | 3.535 |
| <b>3.0</b>   | 1661.287 | 794.921 | 236.769 | 61.084 | 3.535 |
| <b>1.0</b>   | 1667.135 | 798.360 | 237.367 | 61.186 | 3.536 |
| <b>0.0</b>   | 1668.500 | 799.000 | 237.500 | 61.210 | 3.536 |
| <b>-1.0</b>  | 1667.135 | 798.360 | 237.367 | 61.186 | 3.536 |
| <b>-3.0</b>  | 1661.287 | 794.921 | 236.769 | 61.084 | 3.535 |
| <b>-5.0</b>  | 1651.303 | 788.618 | 235.728 | 60.913 | 3.535 |
| <b>-7.0</b>  | 1637.221 | 779.468 | 234.245 | 60.671 | 3.535 |
| <b>-9.0</b>  | 1619.091 | 767.498 | 232.322 | 60.360 | 3.534 |
| <b>-11.0</b> | 1596.972 | 752.737 | 229.961 | 59.980 | 3.534 |
| <b>-13.0</b> | 1570.935 | 735.222 | 227.165 | 59.531 | 3.533 |
| <b>-15.0</b> | 1541.061 | 714.990 | 223.939 | 59.015 | 3.532 |
| <b>-17.0</b> | 1507.436 | 692.089 | 220.285 | 58.432 | 3.531 |
| <b>-19.5</b> | 1460.280 | 659.783 | 215.126 | 57.610 | 3.529 |
| <b>-22.5</b> | 1396.445 | 615.758 | 208.079 | 56.490 | 3.527 |
| <b>-25.5</b> | 1325.056 | 566.183 | 200.121 | 55.227 | 3.524 |
| <b>-29.0</b> | 1232.749 | 501.617 | 189.717 | 53.578 | 3.521 |
| <b>-33.0</b> | 1112.937 | 419.395 | 176.402 | 51.470 | 3.517 |
| <b>-37.5</b> | 964.666  | 342.834 | 159.693 | 48.827 | 3.512 |
| <b>-42.5</b> | 785.271  | 308.078 | 139.115 | 45.573 | 3.505 |
| <b>-47.5</b> | 592.300  | 270.165 | 116.580 | 42.010 | 3.498 |
| <b>-55.0</b> | 330.550  | 208.119 | 98.242  | 36.146 | 3.486 |
| <b>-65.0</b> | 204.625  | 117.542 | 72.923  | 27.513 | 3.469 |
| <b>-75.0</b> | 91.493   | 70.534  | 45.886  | 18.185 | 3.450 |
| <b>-85.0</b> | 33.195   | 26.144  | 17.820  | 8.433  | 3.430 |
| <b>-90.0</b> | 3.933    | 3.789   | 3.643   | 3.495  | 3.420 |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 10874.71

Total Field Lumens (one side of beam only) = 5144.25

\* Indicates Values Inside Field Edge

| Vert.<br>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              | 0.04              | 0.08     | 0.08     | 0.08     | 0.08     | 0.08     | 0.08      | 0.08      | 0.07      | 0.09      |
| 75              | 0.39              | 0.78     | 0.78     | 0.78     | 0.77     | 0.77     | 0.75      | 0.74      | 0.73      | 0.88      |
| 65              | 1.46              | 2.91     | 2.90     | 2.87     | 2.83     | 2.78     | 2.71      | 2.64      | 2.55      | 3.05      |
| 55              | 3.51              | 7.02     | 6.99     | 6.93     | 6.84     | 6.73     | 6.58      | 6.42      | 6.22      | 7.47      |
| 47.5            | 4.25              | 8.49     | 8.46     | 8.40     | 8.30     | 8.19     | 8.04      | 7.86      | 7.66      | 9.26      |
| 42.5            | 3.57              | 7.14     | 7.11     | 7.06     | 6.99     | 6.89     | 6.77      | 6.63      | 6.47      | 7.82      |
| 37.5            | 4.20              | 8.38     | 8.34     | 8.27     | 8.17     | 8.03     | 7.87      | 7.68      | 7.48      | 9.05      |
| 33              | 4.39              | 8.76     | 8.71     | 8.62     | 8.50     | 8.34     | 8.15      | 7.93      | 7.70      | 9.27      |
| 29              | 4.41              | 8.80     | 8.74     | 8.66     | 8.53     | 8.37     | 8.17      | 7.94      | 7.69      | 9.22      |
| 25.5            | 4.19              | 8.36     | 8.31     | 8.24     | 8.13     | 7.98     | 7.80      | 7.60      | 7.36      | 8.82      |
| 22.5            | 3.79              | 7.58     | 7.55     | 7.48     | 7.39     | 7.27     | 7.11      | 6.93      | 6.73      | 8.07      |
| 19.5            | 4.24              | 8.39     | 8.11     | 7.88     | 7.78     | 7.65     | 7.49      | 7.29      | 7.07      | 8.49      |
| 17              | 4.98              | 10.02    | 9.73     | 9.15     | 8.32     | 7.20     | 6.52      | 6.35      | 6.15      | 7.38      |
| 15              | 5.66              | 11.68    | 11.75    | 11.19    | 9.97     | 8.16     | 6.38      | 5.40      | 5.08      | 6.09      |
| 13              | 7.17              | 15.06    | 15.51    | 15.19    | 14.03    | 12.08    | 9.39      | 6.76      | 5.38      | 6.25      |
| 11              | 8.70              | 18.59    | 19.53    | 19.47    | 18.36    | 16.27    | 13.34     | 9.71      | 6.50      | 6.40      |
| 9               | 16.57 *           | 31.71 *  | 27.19    | 24.16    | 23.01    | 20.68    | 17.38     | 13.34     | 8.86      | 7.28      |
| 7               | 37.39 *           | 69.55 *  | 55.52 *  | 38.55 *  | 28.74    | 25.30    | 21.48     | 16.90     | 11.80     | 8.95      |
| 5               | 64.78 *           | 121.95 * | 101.14 * | 70.02 *  | 42.33 *  | 30.10 *  | 25.54     | 20.29     | 14.60     | 10.57     |
| 3               | 92.01 *           | 172.15 * | 143.64 * | 105.21 * | 63.78 *  | 37.74 *  | 29.38 *   | 23.35     | 17.01     | 12.22     |
| 1               | 118.49 *          | 216.20 * | 176.33 * | 130.40 * | 82.52 *  | 47.25 *  | 32.74 *   | 25.86     | 18.88     | 13.74     |
| 0               | 68.18 *           | 120.18 * | 95.89 *  | 70.89 *  | 45.83 *  | 26.30 *  | 17.42 *   | 13.67     | 9.95      | 7.26      |
| -1              | 68.18 *           | 120.18 * | 95.89 *  | 70.89 *  | 45.83 *  | 26.30 *  | 17.42 *   | 13.67     | 9.95      | 7.26      |
| -3              | 118.49 *          | 216.20 * | 176.33 * | 130.40 * | 82.52 *  | 47.25 *  | 32.74 *   | 25.86     | 18.88     | 13.74     |
|                 | 92.01 *           | 172.15 * | 143.64 * | 105.21 * | 63.78 *  | 37.74 *  | 29.38 *   | 23.35     | 17.01     | 12.22     |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES**

**LUMENS TABULATION - (Cont.)**

|              |         |          |          |         |         |         |        |        |        |        |
|--------------|---------|----------|----------|---------|---------|---------|--------|--------|--------|--------|
| <b>-5</b>    | 64.78 * | 121.95 * | 101.14 * | 70.02 * | 42.33 * | 30.10 * | 25.54  | 20.29  | 14.60  | 10.57  |
| <b>-7</b>    | 37.39 * | 69.55 *  | 55.52 *  | 38.55 * | 28.74   | 25.30   | 21.48  | 16.90  | 11.80  | 8.95   |
| <b>-9</b>    | 16.57 * | 31.71 *  | 27.19    | 24.16   | 23.01   | 20.68   | 17.38  | 13.34  | 8.86   | 7.28   |
| <b>-11</b>   | 8.70    | 18.59    | 19.53    | 19.47   | 18.36   | 16.27   | 13.34  | 9.71   | 6.50   | 6.40   |
| <b>-13</b>   | 7.17    | 15.06    | 15.51    | 15.19   | 14.03   | 12.08   | 9.39   | 6.76   | 5.38   | 6.25   |
| <b>-15</b>   | 5.66    | 11.68    | 11.75    | 11.19   | 9.97    | 8.16    | 6.38   | 5.40   | 5.08   | 6.09   |
| <b>-17</b>   | 4.98    | 10.02    | 9.73     | 9.15    | 8.32    | 7.20    | 6.52   | 6.35   | 6.15   | 7.38   |
| <b>-19.5</b> | 4.24    | 8.39     | 8.11     | 7.88    | 7.78    | 7.65    | 7.49   | 7.29   | 7.07   | 8.49   |
| <b>-22.5</b> | 3.79    | 7.58     | 7.55     | 7.48    | 7.39    | 7.27    | 7.11   | 6.93   | 6.73   | 8.07   |
| <b>-25.5</b> | 4.19    | 8.36     | 8.31     | 8.24    | 8.13    | 7.98    | 7.80   | 7.60   | 7.36   | 8.82   |
| <b>-29</b>   | 4.41    | 8.80     | 8.74     | 8.66    | 8.53    | 8.37    | 8.17   | 7.94   | 7.69   | 9.22   |
| <b>-33</b>   | 4.39    | 8.76     | 8.71     | 8.62    | 8.50    | 8.34    | 8.15   | 7.93   | 7.70   | 9.27   |
| <b>-37.5</b> | 4.20    | 8.38     | 8.34     | 8.27    | 8.17    | 8.03    | 7.87   | 7.68   | 7.48   | 9.05   |
| <b>-42.5</b> | 3.57    | 7.14     | 7.11     | 7.06    | 6.99    | 6.89    | 6.77   | 6.63   | 6.47   | 7.82   |
| <b>-47.5</b> | 4.25    | 8.49     | 8.46     | 8.40    | 8.30    | 8.19    | 8.04   | 7.86   | 7.66   | 9.26   |
| <b>-55</b>   | 3.51    | 7.02     | 6.99     | 6.93    | 6.84    | 6.73    | 6.58   | 6.42   | 6.22   | 7.47   |
| <b>-65</b>   | 1.46    | 2.91     | 2.90     | 2.87    | 2.83    | 2.78    | 2.71   | 2.64   | 2.55   | 3.05   |
| <b>-75</b>   | 0.39    | 0.78     | 0.78     | 0.78    | 0.77    | 0.77    | 0.75   | 0.74   | 0.73   | 0.88   |
| <b>-85</b>   | 0.04    | 0.08     | 0.08     | 0.08    | 0.08    | 0.08    | 0.08   | 0.08   | 0.07   | 0.09   |
| <b>-90</b>   |         |          |          |         |         |         |        |        |        |        |
| <b>Total</b> | 924.75  | 1727.54  | 1464.61  | 1138.96 | 822.41  | 608.28  | 502.20 | 422.73 | 343.86 | 335.26 |

**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> |
|-------------|-------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|
| <b>90</b>   | 0.11        | 0.10        | 0.12        | 0.13      | 0.13      | 0.13        | 0.12        | 0.14        | 0.13      | 0.07      |
| <b>85</b>   | 1.02        | 0.97        | 1.05        | 1.10      | 1.10      | 1.03        | 0.83        | 0.96        | 0.84      | 0.42      |
| <b>75</b>   | 3.43        | 3.15        | 3.29        | 3.21      | 2.94      | 2.65        | 2.15        | 2.38        | 1.84      | 0.80      |
| <b>65</b>   | 8.46        | 7.85        | 8.31        | 8.29      | 7.77      | 6.88        | 5.19        | 4.96        | 3.27      | 1.29      |
| <b>55</b>   | 10.57       | 9.91        | 10.65       | 10.88     | 10.49     | 9.44        | 7.11        | 6.63        | 4.00      | 1.35      |
| <b>47.5</b> | 8.96        | 8.43        | 9.12        | 9.38      | 9.14      | 8.35        | 6.47        | 6.33        | 3.72      | 1.08      |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES**

**LUMENS TABULATION - (Cont.)**

|              |       |      |       |       |       |       |      |      |      |      |
|--------------|-------|------|-------|-------|-------|-------|------|------|------|------|
| <b>42.5</b>  |       |      |       |       |       |       |      |      |      |      |
|              | 10.37 | 9.78 | 10.60 | 10.96 | 10.75 | 9.90  | 7.75 | 7.80 | 4.57 | 1.24 |
| <b>37.5</b>  |       |      |       |       |       |       |      |      |      |      |
|              | 10.55 | 9.90 | 10.70 | 11.08 | 10.92 | 10.13 | 8.00 | 8.18 | 4.86 | 1.29 |
| <b>33</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 10.44 | 9.73 | 10.44 | 10.75 | 10.60 | 9.89  | 7.86 | 8.12 | 4.97 | 1.34 |
| <b>29</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 9.98  | 9.27 | 9.89  | 10.10 | 9.90  | 9.25  | 7.40 | 7.70 | 4.83 | 1.33 |
| <b>25.5</b>  |       |      |       |       |       |       |      |      |      |      |
|              | 9.14  | 8.48 | 9.03  | 9.17  | 8.93  | 8.33  | 6.68 | 7.00 | 4.45 | 1.24 |
| <b>22.5</b>  |       |      |       |       |       |       |      |      |      |      |
|              | 9.62  | 8.94 | 9.51  | 9.63  | 9.33  | 8.66  | 6.96 | 7.33 | 4.71 | 1.33 |
| <b>19.5</b>  |       |      |       |       |       |       |      |      |      |      |
|              | 8.35  | 7.76 | 8.25  | 8.35  | 8.06  | 7.45  | 6.00 | 6.33 | 4.11 | 1.16 |
| <b>17</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 6.89  | 6.39 | 6.80  | 6.87  | 6.61  | 6.09  | 4.91 | 5.19 | 3.39 | 0.96 |
| <b>15</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 7.06  | 6.54 | 6.95  | 7.02  | 6.75  | 6.20  | 4.99 | 5.29 | 3.47 | 0.99 |
| <b>13</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 7.22  | 6.68 | 7.08  | 7.16  | 6.88  | 6.31  | 5.06 | 5.38 | 3.54 | 1.01 |
| <b>11</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 7.36  | 6.80 | 7.20  | 7.27  | 6.98  | 6.40  | 5.13 | 5.45 | 3.60 | 1.03 |
| <b>9</b>     |       |      |       |       |       |       |      |      |      |      |
|              | 7.49  | 6.91 | 7.30  | 7.36  | 7.07  | 6.47  | 5.18 | 5.51 | 3.65 | 1.05 |
| <b>7</b>     |       |      |       |       |       |       |      |      |      |      |
|              | 7.60  | 7.00 | 7.39  | 7.44  | 7.14  | 6.53  | 5.23 | 5.56 | 3.69 | 1.06 |
| <b>5</b>     |       |      |       |       |       |       |      |      |      |      |
|              | 8.03  | 7.07 | 7.45  | 7.49  | 7.19  | 6.58  | 5.26 | 5.60 | 3.72 | 1.07 |
| <b>3</b>     |       |      |       |       |       |       |      |      |      |      |
|              | 8.70  | 7.11 | 7.49  | 7.52  | 7.23  | 6.61  | 5.28 | 5.62 | 3.74 | 1.08 |
| <b>1</b>     |       |      |       |       |       |       |      |      |      |      |
|              | 4.52  | 3.57 | 3.75  | 3.77  | 3.62  | 3.31  | 2.65 | 2.82 | 1.88 | 0.54 |
| <b>0</b>     |       |      |       |       |       |       |      |      |      |      |
|              | 4.52  | 3.57 | 3.75  | 3.77  | 3.62  | 3.31  | 2.65 | 2.82 | 1.88 | 0.54 |
| <b>-1</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 8.70  | 7.11 | 7.49  | 7.52  | 7.23  | 6.61  | 5.28 | 5.62 | 3.74 | 1.08 |
| <b>-3</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 8.03  | 7.07 | 7.45  | 7.49  | 7.19  | 6.58  | 5.26 | 5.60 | 3.72 | 1.07 |
| <b>-5</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 7.60  | 7.00 | 7.39  | 7.44  | 7.14  | 6.53  | 5.23 | 5.56 | 3.69 | 1.06 |
| <b>-7</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 7.49  | 6.91 | 7.30  | 7.36  | 7.07  | 6.47  | 5.18 | 5.51 | 3.65 | 1.05 |
| <b>-9</b>    |       |      |       |       |       |       |      |      |      |      |
|              | 7.36  | 6.80 | 7.20  | 7.27  | 6.98  | 6.40  | 5.13 | 5.45 | 3.60 | 1.03 |
| <b>-11</b>   |       |      |       |       |       |       |      |      |      |      |
|              | 7.22  | 6.68 | 7.08  | 7.16  | 6.88  | 6.31  | 5.06 | 5.38 | 3.54 | 1.01 |
| <b>-13</b>   |       |      |       |       |       |       |      |      |      |      |
|              | 7.06  | 6.54 | 6.95  | 7.02  | 6.75  | 6.20  | 4.99 | 5.29 | 3.47 | 0.99 |
| <b>-15</b>   |       |      |       |       |       |       |      |      |      |      |
|              | 6.89  | 6.39 | 6.80  | 6.87  | 6.61  | 6.09  | 4.91 | 5.19 | 3.39 | 0.96 |
| <b>-17</b>   |       |      |       |       |       |       |      |      |      |      |
|              | 8.35  | 7.76 | 8.25  | 8.35  | 8.06  | 7.45  | 6.00 | 6.33 | 4.11 | 1.16 |
| <b>-19.5</b> |       |      |       |       |       |       |      |      |      |      |
|              | 9.62  | 8.94 | 9.51  | 9.63  | 9.33  | 8.66  | 6.96 | 7.33 | 4.71 | 1.33 |
| <b>-22.5</b> |       |      |       |       |       |       |      |      |      |      |
|              | 9.14  | 8.48 | 9.03  | 9.17  | 8.93  | 8.33  | 6.68 | 7.00 | 4.45 | 1.24 |

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES

LUMENS TABULATION - (Cont.)

|              |        |        |        |        |        |        |        |        |        |       |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| <b>-25.5</b> | 9.98   | 9.27   | 9.89   | 10.10  | 9.90   | 9.25   | 7.40   | 7.70   | 4.83   | 1.33  |
| <b>-29</b>   | 10.44  | 9.73   | 10.44  | 10.75  | 10.60  | 9.89   | 7.86   | 8.12   | 4.97   | 1.34  |
| <b>-33</b>   | 10.55  | 9.90   | 10.70  | 11.08  | 10.92  | 10.13  | 8.00   | 8.18   | 4.86   | 1.29  |
| <b>-37.5</b> | 10.37  | 9.78   | 10.60  | 10.96  | 10.75  | 9.90   | 7.75   | 7.80   | 4.57   | 1.24  |
| <b>-42.5</b> | 8.96   | 8.43   | 9.12   | 9.38   | 9.14   | 8.35   | 6.47   | 6.33   | 3.72   | 1.08  |
| <b>-47.5</b> | 10.57  | 9.91   | 10.65  | 10.88  | 10.49  | 9.44   | 7.11   | 6.63   | 4.00   | 1.35  |
| <b>-55</b>   | 8.46   | 7.85   | 8.31   | 8.29   | 7.77   | 6.88   | 5.19   | 4.96   | 3.27   | 1.29  |
| <b>-65</b>   | 3.43   | 3.15   | 3.29   | 3.21   | 2.94   | 2.65   | 2.15   | 2.38   | 1.84   | 0.80  |
| <b>-75</b>   | 1.02   | 0.97   | 1.05   | 1.10   | 1.10   | 1.03   | 0.83   | 0.96   | 0.84   | 0.42  |
| <b>-85</b>   | 0.11   | 0.10   | 0.12   | 0.13   | 0.13   | 0.13   | 0.12   | 0.14   | 0.13   | 0.07  |
| <b>-90</b>   | 0.11   | 0.10   | 0.12   | 0.13   | 0.13   | 0.13   | 0.12   | 0.14   | 0.13   | 0.07  |
| <b>Total</b> | 331.72 | 304.68 | 324.74 | 329.86 | 319.07 | 293.19 | 232.42 | 240.58 | 153.97 | 45.43 |

| Vert.<br>Angles | Horizontal Angles |           |           |              |
|-----------------|-------------------|-----------|-----------|--------------|
|                 | <u>75</u>         | <u>85</u> | <u>90</u> | <u>Total</u> |
| <b>90</b>       | 0.02              | 0.00      |           | 1.93         |
| <b>85</b>       | 0.12              | 0.01      |           | 16.82        |
| <b>75</b>       | 0.22              | 0.01      |           | 52.75        |
| <b>65</b>       | 0.31              | 0.01      |           | 127.31       |
| <b>55</b>       | 0.29              | 0.01      |           | 160.23       |
| <b>47.5</b>     | 0.23              | 0.01      |           | 137.67       |
| <b>42.5</b>     | 0.26              | 0.01      |           | 161.43       |
| <b>37.5</b>     | 0.26              | 0.01      |           | 166.24       |
| <b>33</b>       | 0.25              | 0.01      |           | 164.93       |
| <b>29</b>       | 0.23              | 0.01      |           | 156.68       |
| <b>25.5</b>     | 0.21              | 0.01      |           | 142.59       |
| <b>22.5</b>     | 0.21              | 0.01      |           | 150.63       |
| <b>19.5</b>     | 0.18              | 0.01      |           | 141.80       |
| <b>17</b>       | 0.15              | 0.00      |           | 135.63       |
| <b>15</b>       | 0.15              | 0.00      |           | 162.24       |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES**

**LUMENS TABULATION - (Cont.)**

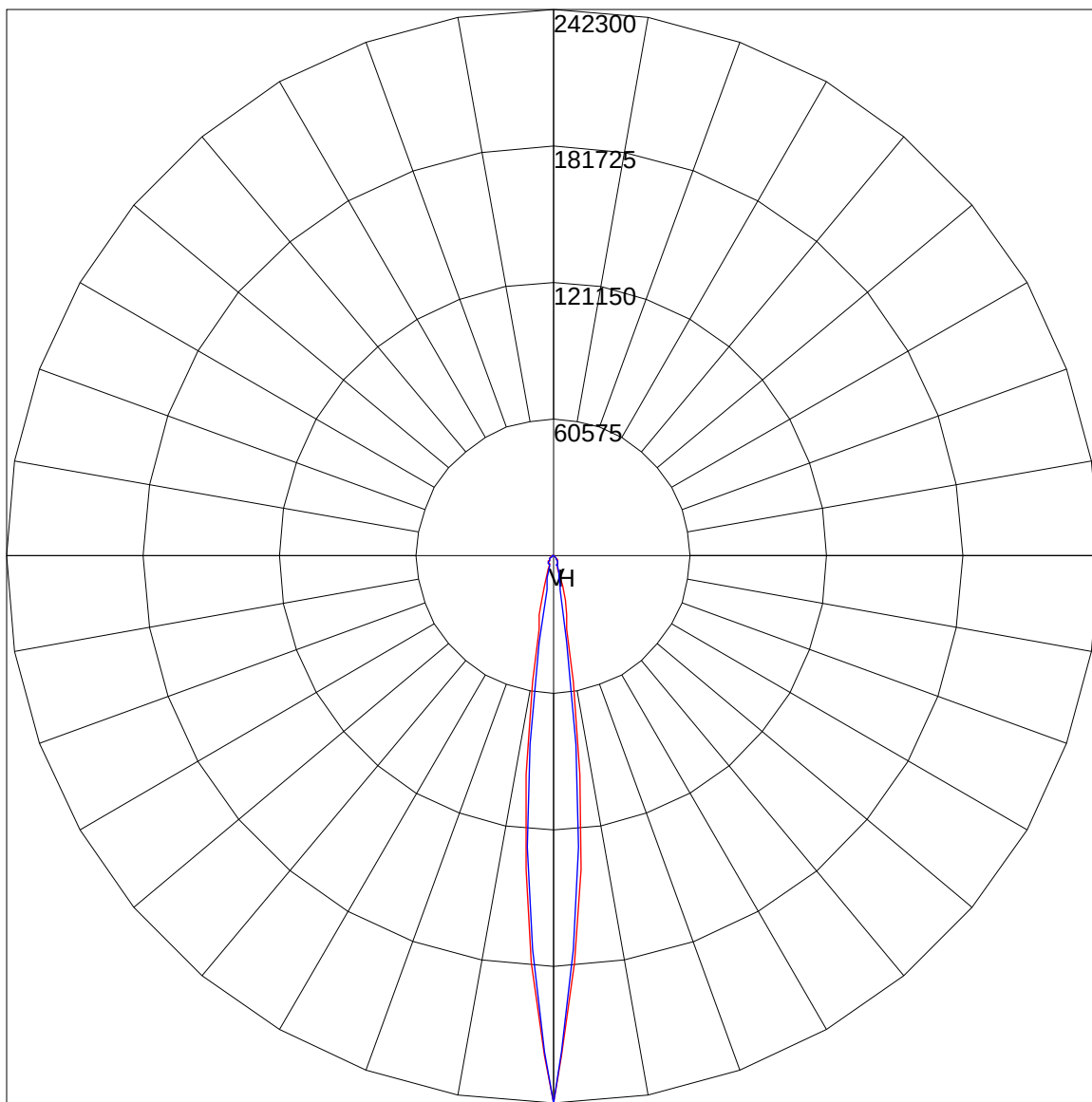
|              |      |      |        |
|--------------|------|------|--------|
| <b>13</b>    | 0.15 | 0.00 | 193.35 |
| <b>11</b>    | 0.15 | 0.00 | 247.57 |
| <b>9</b>     | 0.16 | 0.00 | 372.34 |
| <b>7</b>     | 0.16 | 0.00 | 560.11 |
| <b>5</b>     | 0.16 | 0.00 | 756.10 |
| <b>3</b>     | 0.16 | 0.00 | 922.95 |
| <b>1</b>     | 0.08 | 0.00 | 506.06 |
| <b>0</b>     | 0.08 | 0.00 | 506.06 |
| <b>-1</b>    | 0.16 | 0.00 | 922.95 |
| <b>-3</b>    | 0.16 | 0.00 | 756.10 |
| <b>-5</b>    | 0.16 | 0.00 | 560.11 |
| <b>-7</b>    | 0.16 | 0.00 | 372.34 |
| <b>-9</b>    | 0.15 | 0.00 | 247.57 |
| <b>-11</b>   | 0.15 | 0.00 | 193.35 |
| <b>-13</b>   | 0.15 | 0.00 | 162.24 |
| <b>-15</b>   | 0.15 | 0.00 | 135.63 |
| <b>-17</b>   | 0.18 | 0.01 | 141.80 |
| <b>-19.5</b> | 0.21 | 0.01 | 150.63 |
| <b>-22.5</b> | 0.21 | 0.01 | 142.59 |
| <b>-25.5</b> | 0.23 | 0.01 | 156.68 |
| <b>-29</b>   | 0.25 | 0.01 | 164.93 |
| <b>-33</b>   | 0.26 | 0.01 | 166.24 |
| <b>-37.5</b> | 0.26 | 0.01 | 161.43 |
| <b>-42.5</b> | 0.23 | 0.01 | 137.67 |
| <b>-47.5</b> | 0.29 | 0.01 | 160.23 |
| <b>-55</b>   | 0.31 | 0.01 | 127.31 |
| <b>-65</b>   | 0.22 | 0.01 | 52.75  |
| <b>-75</b>   | 0.12 | 0.01 | 16.82  |

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : LEDP5W-60-SPOT.IES

LUMENS TABULATION - (Cont.)

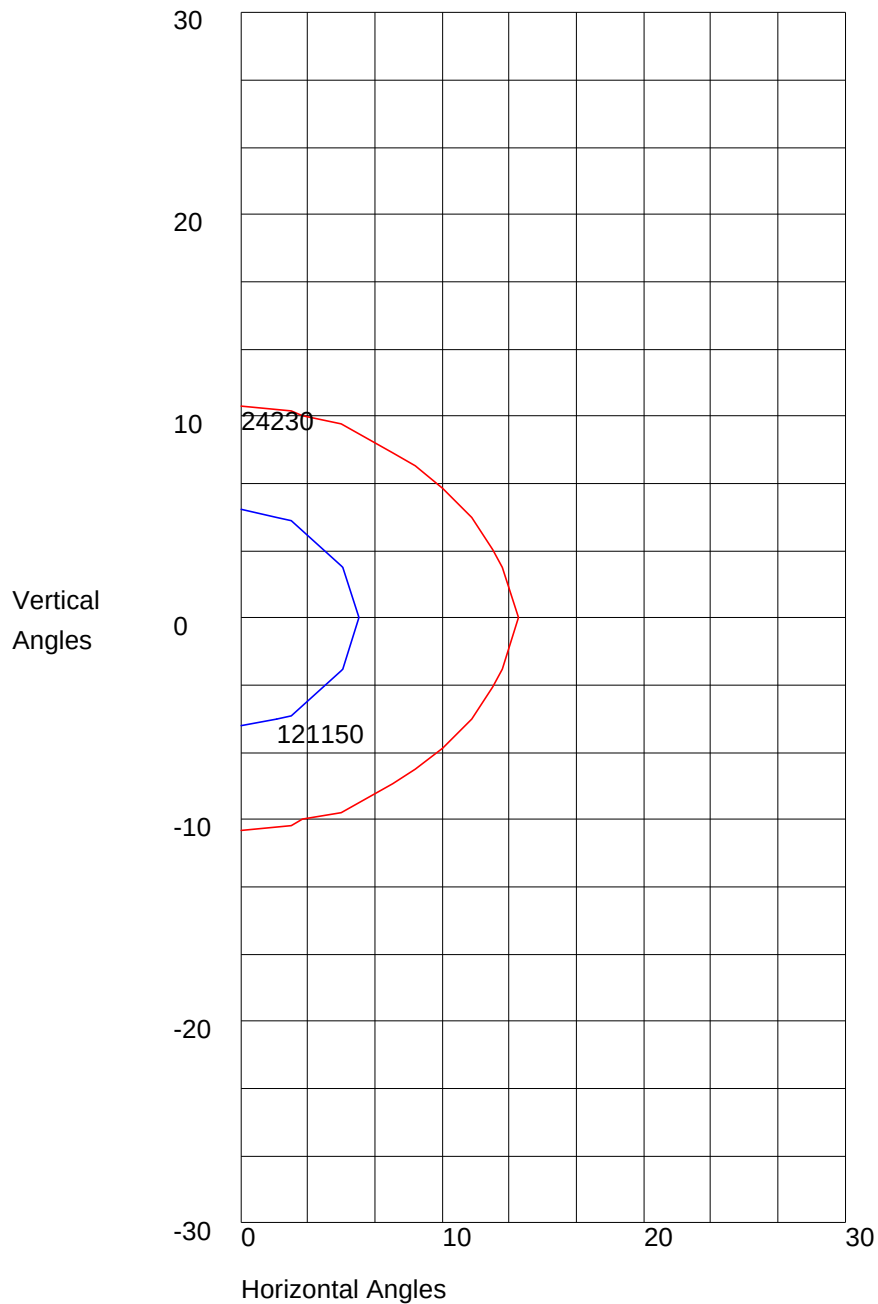
|       |      |      |          |
|-------|------|------|----------|
| -85   | 0.02 | 0.00 | 1.93     |
| -90   |      |      |          |
| Total | 8.19 | 0.26 | 10874.71 |

AXIAL CANDELA DISPLAY



Maximum Candela = 242300 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 242300 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 121150  
10% Maximum Candela = 24230



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[ISSUEDATE] 2012  
[MANUFAC] LARSON ELECTRONCS LLC  
[LUMCAT] LEDP5W-60 Flood Config  
[LUMINAIRE] 300 Watt LED LAMP  
[LAMP] LED LAMP

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

### CHARACTERISTICS

|                              |               |
|------------------------------|---------------|
| NEMA Type                    | 5 H x 5 V     |
| Maximum Candela              | 30630         |
| Maximum Candela Angle        | 0H 0V         |
| Horizontal Beam Angle (50%)  | 42.6          |
| Vertical Beam Angle (50%)    | 46.3          |
| Horizontal Field Angle (10%) | 72.7          |
| Vertical Field Angle (10%)   | 76.5          |
| Lumens Per Lamp              | 5000 (1 lamp) |
| Total Lamp Lumens            | 5000          |
| Beam Lumens                  | 10373         |
| Beam Efficiency              | 207 %         |
| Field Lumens                 | 16349         |
| Field Efficiency             | 327 %         |
| Spill Lumens                 | 3357          |
| Luminaire Lumens             | 19706         |
| Total Efficiency             | 394 %         |
| Total Luminaire Watts        | 1000          |
| Ballast Factor               | 1.00          |



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**AXIAL CANDELA**

| DEG.  | HOR.    | DEG.  | VERT.   |
|-------|---------|-------|---------|
| 90    | 1.6     | 90    | 6.5     |
| 85    | 43.3    | 85    | 58.7    |
| 75    | 208     | 75    | 264.5   |
| 65    | 495     | 65    | 611.5   |
| 55    | 854.5   | 55    | 1016    |
| 47.5  | 1236.8  | 47.5  | 1440.8  |
| 42.5  | 1610.3  | 42.5  | 1868.3  |
| 37.5  | 2670    | 37.5  | 3271.8  |
| 33    | 4241.4  | 33    | 5413.3  |
| 29    | 6450.1  | 29    | 8080.9  |
| 25.5  | 10513.9 | 25.5  | 12420.5 |
| 22.5  | 13997.3 | 22.5  | 16140.3 |
| 19.5  | 17343   | 19.5  | 19665.5 |
| 17    | 19558   | 17    | 21793   |
| 15    | 21330   | 15    | 23495   |
| 13    | 23102   | 13    | 25197   |
| 11    | 24874   | 11    | 26899   |
| 9     | 26247   | 9     | 28038   |
| 7     | 27221   | 7     | 28614   |
| 5     | 28195   | 5     | 29190   |
| 3     | 29169   | 3     | 29766   |
| 1     | 30143   | 1     | 30342   |
| 0     | 30630   | 0     | 30630   |
| -1    | 30143   | -1    | 30342   |
| -3    | 29169   | -3    | 29766   |
| -5    | 28195   | -5    | 29190   |
| -7    | 27221   | -7    | 28614   |
| -9    | 26247   | -9    | 28038   |
| -11   | 24874   | -11   | 26899   |
| -13   | 23102   | -13   | 25197   |
| -15   | 21330   | -15   | 23495   |
| -17   | 19558   | -17   | 21793   |
| -19.5 | 17343   | -19.5 | 19665.5 |
| -22.5 | 13997.3 | -22.5 | 16140.3 |
| -25.5 | 10513.9 | -25.5 | 12420.5 |
| -29   | 6450.1  | -29   | 8080.9  |
| -33   | 4241.4  | -33   | 5413.3  |
| -37.5 | 2670    | -37.5 | 3271.8  |
| -42.5 | 1610.3  | -42.5 | 1868.3  |
| -47.5 | 1236.8  | -47.5 | 1440.8  |
| -55   | 854.5   | -55   | 1016    |
| -65   | 495     | -65   | 611.5   |
| -75   | 208     | -75   | 264.5   |
| -85   | 43.3    | -85   | 58.7    |
| -90   | 1.6     | -90   | 6.5     |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**CANDELA TABULATION**

Maximum Candela = 30630

Beam Edge = 15315 Cd (50% of Max.)

Field Edge = 3063 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |              |              |              |              |              |              |              |              |              |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                         | <b>-90.0</b>             | <b>-85.0</b> | <b>-75.0</b> | <b>-65.0</b> | <b>-55.0</b> | <b>-47.5</b> | <b>-42.5</b> | <b>-37.5</b> | <b>-33.0</b> | <b>-29.0</b> |
| <b>90.0</b>             | 1.5                      | 1.8          | 2.3          | 2.9          | 3.5          | 3.9          | 4.2          | 4.4          | 4.7          | 4.9          |
| <b>85.0</b>             | 1.5                      | 5.5          | 13.6         | 21.7         | 29.7         | 35.3         | 38.9         | 42.3         | 45.2         | 47.6         |
| <b>75.0</b>             | 1.5                      | 12.7         | 35.7         | 58.8         | 81.5         | 98.9         | 126.2        | 151.8        | 173.2        | 190.8        |
| <b>65.0</b>             | 1.5                      | 19.6         | 56.7         | 99.2         | 202.3        | 276.3        | 323.2        | 367.6        | 411.2        | 449.6        |
| <b>55.0</b>             | 1.5                      | 25.9         | 75.9         | 195.8        | 338.7        | 465.2        | 549.7        | 629.9        | 697.6        | 754.2        |
| <b>47.5</b>             | 1.6                      | 30.2         | 90.0         | 261.1        | 454.2        | 614.6        | 717.5        | 828.0        | 921.9        | 999.6        |
| <b>42.5</b>             | 1.6                      | 32.7         | 113.3        | 300.3        | 528.4        | 706.1        | 836.2        | 961.0        | 1067.3       | 1162.0       |
| <b>37.5</b>             | 1.6                      | 35.1         | 134.3        | 335.8        | 595.8        | 803.0        | 946.9        | 1085.4       | 1271.5       | 1460.5       |
| <b>33.0</b>             | 1.6                      | 36.9         | 151.2        | 370.4        | 650.3        | 882.6        | 1037.9       | 1254.6       | 1502.1       | 1712.4       |
| <b>29.0</b>             | 1.6                      | 38.4         | 164.5        | 400.3        | 693.8        | 946.2        | 1116.8       | 1422.9       | 1690.4       | 1927.4       |
| <b>25.5</b>             | 1.6                      | 39.5         | 174.8        | 423.3        | 733.0        | 995.7        | 1233.0       | 1555.9       | 1840.1       | 2774.6       |
| <b>22.5</b>             | 1.6                      | 40.4         | 182.5        | 440.6        | 762.6        | 1033.2       | 1321.7       | 1657.8       | 2203.3       | 3460.7 *     |
| <b>19.5</b>             | 1.6                      | 41.1         | 189.3        | 455.6        | 788.3        | 1065.8       | 1399.8       | 1747.7       | 2750.5       | 4069.4 *     |
| <b>17.0</b>             | 1.6                      | 41.7         | 194.1        | 466.3        | 806.7        | 1098.3       | 1456.2       | 1812.8       | 3147.9 *     | 4511.2 *     |
| <b>15.0</b>             | 1.6                      | 42.0         | 197.5        | 473.7        | 819.4        | 1132.4       | 1495.4       | 1865.3       | 3424.9 *     | 4818.1 *     |
| <b>13.0</b>             | 1.6                      | 42.4         | 200.4        | 480.1        | 830.3        | 1161.8       | 1529.2       | 2081.7       | 3663.9 *     | 5081.3 *     |
| <b>11.0</b>             | 1.6                      | 42.6         | 202.8        | 485.3        | 839.3        | 1186.6       | 1557.5       | 2264.9       | 3863.7 *     | 5298.6 *     |
| <b>9.0</b>              | 1.6                      | 42.9         | 204.8        | 489.5        | 846.4        | 1206.6       | 1580.0       | 2414.5       | 4023.4 *     | 5468.6 *     |
| <b>7.0</b>              | 1.6                      | 43.0         | 206.3        | 492.6        | 851.5        | 1221.8       | 1596.9       | 2530.2       | 4142.4 *     | 5782.5 *     |
| <b>5.0</b>              | 1.6                      | 43.2         | 207.4        | 494.7        | 854.8        | 1232.1       | 1607.9       | 2611.8       | 4220.6 *     | 6155.0 *     |
| <b>3.0</b>              | 1.6                      | 43.2         | 208.0        | 495.6        | 856.1        | 1237.6       | 1613.2       | 2659.8       | 4258.5 *     | 6383.1 *     |
| <b>1.0</b>              | 1.6                      | 43.3         | 208.1        | 495.5        | 855.5        | 1238.2       | 1612.7       | 2674.7       | 4256.7 *     | 6464.5 *     |
| <b>0.0</b>              | 1.6                      | 43.3         | 208.0        | 495.0        | 854.5        | 1236.8       | 1610.3       | 2670.0       | 4241.4 *     | 6450.1 *     |
| <b>-1.0</b>             | 1.6                      | 43.3         | 208.1        | 495.5        | 855.5        | 1238.2       | 1612.7       | 2674.7       | 4256.7 *     | 6464.5 *     |
| <b>-3.0</b>             | 1.6                      | 43.2         | 208.0        | 495.6        | 856.1        | 1237.6       | 1613.2       | 2659.8       | 4258.5 *     | 6383.1 *     |
| <b>-5.0</b>             | 1.6                      | 43.2         | 207.4        | 494.7        | 854.8        | 1232.1       | 1607.9       | 2611.8       | 4220.6 *     | 6155.0 *     |
| <b>-7.0</b>             | 1.6                      | 43.0         | 206.3        | 492.6        | 851.5        | 1221.8       | 1596.9       | 2530.2       | 4142.4 *     | 5782.5 *     |
| <b>-9.0</b>             | 1.6                      | 42.9         | 204.8        | 489.5        | 846.4        | 1206.6       | 1580.0       | 2414.5       | 4023.4 *     | 5468.6 *     |
| <b>-11.0</b>            | 1.6                      | 42.6         | 202.8        | 485.3        | 839.3        | 1186.6       | 1557.5       | 2264.9       | 3863.7 *     | 5298.6 *     |
| <b>-13.0</b>            | 1.6                      | 42.4         | 200.4        | 480.1        | 830.3        | 1161.8       | 1529.2       | 2081.7       | 3663.9 *     | 5081.3 *     |
| <b>-15.0</b>            | 1.6                      | 42.0         | 197.5        | 473.7        | 819.4        | 1132.4       | 1495.4       | 1865.3       | 3424.9 *     | 4818.1 *     |
| <b>-17.0</b>            | 1.6                      | 41.7         | 194.1        | 466.3        | 806.7        | 1098.3       | 1456.2       | 1812.8       | 3147.9 *     | 4511.2 *     |
| <b>-19.5</b>            | 1.6                      | 41.1         | 189.3        | 455.6        | 788.3        | 1065.8       | 1399.8       | 1747.7       | 2750.5       | 4069.4 *     |
| <b>-22.5</b>            | 1.6                      | 40.4         | 182.5        | 440.6        | 762.6        | 1033.2       | 1321.7       | 1657.8       | 2203.3       | 3460.7 *     |
| <b>-25.5</b>            | 1.6                      | 39.5         | 174.8        | 423.3        | 733.0        | 995.7        | 1233.0       | 1555.9       | 1840.1       | 2774.6       |
| <b>-29.0</b>            | 1.6                      | 38.4         | 164.5        | 400.3        | 693.8        | 946.2        | 1116.8       | 1422.9       | 1690.4       | 1927.4       |
| <b>-33.0</b>            | 1.6                      | 36.9         | 151.2        | 370.4        | 650.3        | 882.6        | 1037.9       | 1254.6       | 1502.1       | 1712.4       |
| <b>-37.5</b>            | 1.6                      | 35.1         | 134.3        | 335.8        | 595.8        | 803.0        | 946.9        | 1085.4       | 1271.5       | 1460.5       |
| <b>-42.5</b>            | 1.6                      | 32.7         | 113.3        | 300.3        | 528.4        | 706.1        | 836.2        | 961.0        | 1067.3       | 1162.0       |
| <b>-47.5</b>            | 1.6                      | 30.2         | 90.0         | 261.1        | 454.2        | 614.6        | 717.5        | 828.0        | 921.9        | 999.6        |
| <b>-55.0</b>            | 1.5                      | 25.9         | 75.9         | 195.8        | 338.7        | 465.2        | 549.7        | 629.9        | 697.6        | 754.2        |
| <b>-65.0</b>            | 1.5                      | 19.6         | 56.7         | 99.2         | 202.3        | 276.3        | 323.2        | 367.6        | 411.2        | 449.6        |
| <b>-75.0</b>            | 1.5                      | 12.7         | 35.7         | 58.8         | 81.5         | 98.9         | 126.2        | 151.8        | 173.2        | 190.8        |
| <b>-85.0</b>            | 1.5                      | 5.5          | 13.6         | 21.7         | 29.7         | 35.3         | 38.9         | 42.3         | 45.2         | 47.6         |
| <b>-90.0</b>            | 1.5                      | 1.8          | 2.3          | 2.9          | 3.5          | 3.9          | 4.2          | 4.4          | 4.7          | 4.9          |

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES

CANDELA TABULATION - (Cont.)

| Vert.<br>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            | 5.1               | 5.3          | 5.4          | 5.6          | 5.7          | 5.8          | 5.9          | 6.0         | 6.1         | 6.2         |
| 85.0            | 49.5              | 51.0         | 52.5         | 53.6         | 54.4         | 55.2         | 55.9         | 56.5        | 57.1        | 57.6        |
| 75.0            | 204.9             | 216.0        | 226.1        | 233.7        | 239.3        | 244.4        | 248.9        | 253.0       | 256.5       | 259.5       |
| 65.0            | 480.5             | 504.9        | 527.1        | 543.8        | 556.1        | 567.2        | 577.3        | 586.2       | 593.9       | 600.5       |
| 55.0            | 804.5             | 844.0        | 880.1        | 907.3        | 927.1        | 945.2        | 961.4        | 975.8       | 988.2       | 998.7       |
| 47.5            | 1062.6            | 1112.5       | 1158.2       | 1203.1       | 1248.9       | 1290.3       | 1327.1       | 1359.2      | 1386.4      | 1408.5      |
| 42.5            | 1297.3            | 1404.8       | 1503.5       | 1578.3       | 1633.0       | 1682.7       | 1727.2       | 1766.3      | 1799.6      | 1827.0      |
| 37.5            | 1615.9            | 1740.4       | 1855.8       | 1943.9       | 2017.7       | 2295.8       | 2544.0       | 2759.9      | 2941.2      | 3085.5 *    |
| 33.0            | 1886.9            | 2298.4       | 2938.6       | 3433.9 *     | 3801.3 *     | 4139.7 *     | 4446.0 *     | 4717.0 *    | 4949.3 *    | 5139.7 *    |
| 29.0            | 2821.6            | 3589.5 *     | 4319.2 *     | 4891.2 *     | 5320.5 *     | 5720.7 *     | 6087.8 *     | 6417.2 *    | 6888.8 *    | 7414.3 *    |
| 25.5            | 3790.1 *          | 4634.4 *     | 5446.4 *     | 6091.0 *     | 7105.4 *     | 8270.2 *     | 9316.3 *     | 10231.4 *   | 11003.0 *   | 11619.7 *   |
| 22.5            | 4543.7 *          | 5452.9 *     | 6778.9 *     | 8670.1 *     | 10078.4 *    | 11379.0 *    | 12556.9 *    | 13596.2 *   | 14480.6 *   | 15193.9 *   |
| 19.5            | 5215.1 *          | 6630.7 *     | 9266.6 *     | 11339.7 *    | 12899.1 *    | 14353.3 *    | 15684.2 *    | 16871.5 *   | 17893.3 *   | 18727.3 *   |
| 17.0            | 5703.1 *          | 8362.1 *     | 11171.9 *    | 13404.1 *    | 15099.4 *    | 16695.7 *    | 18172.4 *    | 19213.3 *   | 20070.5 *   | 20779.7 *   |
| 15.0            | 6577.3 *          | 9617.8 *     | 12565.3 *    | 14927.0 *    | 16735.9 *    | 18370.7 *    | 19555.9 *    | 20632.2 *   | 21576.9 *   | 22364.9 *   |
| 13.0            | 7589.5 *          | 10743.6 *    | 13823.8 *    | 16313.7 *    | 18157.0 *    | 19523.1 *    | 20806.8 *    | 21986.1 *   | 23033.8 *   | 23917.9 *   |
| 11.0            | 8468.1 *          | 11725.2 *    | 14928.9 *    | 17541.1 *    | 19107.4 *    | 20568.6 *    | 21958.2 *    | 23252.8 *   | 24421.3 *   | 25423.7 *   |
| 9.0             | 9202.5 *          | 12548.7 *    | 15861.2 *    | 18328.5 *    | 19925.6 *    | 21481.3 *    | 22980.3 *    | 24400.4 *   | 25708.6 *   | 26857.7 *   |
| 7.0             | 9783.4 *          | 13200.9 *    | 16602.0 *    | 18917.1 *    | 20587.0 *    | 22230.3 *    | 23835.6 *    | 25384.8 *   | 26794.0 *   | 27476.6 *   |
| 5.0             | 10202.8 *         | 13670.2 *    | 17134.4 *    | 19338.0 *    | 21066.2 *    | 22781.9 *    | 24479.2 *    | 26147.5 *   | 27116.4 *   | 27890.0 *   |
| 3.0             | 10455.1 *         | 13948.3 *    | 17365.3 *    | 19574.3 *    | 21339.9 *    | 23103.4 *    | 24863.7 *    | 26395.2 *   | 27311.2 *   | 28189.4 *   |
| 1.0             | 10537.1 *         | 14030.2 *    | 17394.0 *    | 19613.9 *    | 21390.9 *    | 23169.3 *    | 24949.8 *    | 26346.1 *   | 27313.0 *   | 28274.1 *   |
| 0.0             | 10513.9 *         | 13997.3 *    | 17343.0 *    | 19558.0 *    | 21330.0 *    | 23102.0 *    | 24874.0 *    | 26247.0 *   | 27221.0 *   | 28195.0 *   |
| -1.0            | 10537.1 *         | 14030.2 *    | 17394.0 *    | 19613.9 *    | 21390.9 *    | 23169.3 *    | 24949.8 *    | 26346.1 *   | 27313.0 *   | 28274.1 *   |
| -3.0            | 10455.1 *         | 13948.3 *    | 17365.3 *    | 19574.3 *    | 21339.9 *    | 23103.4 *    | 24863.7 *    | 26395.2 *   | 27311.2 *   | 28189.4 *   |
| -5.0            | 10202.8 *         | 13670.2 *    | 17134.4 *    | 19338.0 *    | 21066.2 *    | 22781.9 *    | 24479.2 *    | 26147.5 *   | 27116.4 *   | 27890.0 *   |
| -7.0            | 9783.4 *          | 13200.9 *    | 16602.0 *    | 18917.1 *    | 20587.0 *    | 22230.3 *    | 23835.6 *    | 25384.8 *   | 26794.0 *   | 27476.6 *   |
| -9.0            | 9202.5 *          | 12548.7 *    | 15861.2 *    | 18328.5 *    | 19925.6 *    | 21481.3 *    | 22980.3 *    | 24400.4 *   | 25708.6 *   | 26857.7 *   |
| -11.0           | 8468.1 *          | 11725.2 *    | 14928.9 *    | 17541.1 *    | 19107.4 *    | 20568.6 *    | 21958.2 *    | 23252.8 *   | 24421.3 *   | 25423.7 *   |
| -13.0           | 7589.5 *          | 10743.6 *    | 13823.8 *    | 16313.7 *    | 18157.0 *    | 19523.1 *    | 20806.8 *    | 21986.1 *   | 23033.8 *   | 23917.9 *   |
| -15.0           | 6577.3 *          | 9617.8 *     | 12565.3 *    | 14927.0 *    | 16735.9 *    | 18370.7 *    | 19555.9 *    | 20632.2 *   | 21576.9 *   | 22364.9 *   |
| -17.0           | 5703.1 *          | 8362.1 *     | 11171.9 *    | 13404.1 *    | 15099.4 *    | 16695.7 *    | 18172.4 *    | 19213.3 *   | 20070.5 *   | 20779.7 *   |
| -19.5           | 5215.1 *          | 6630.7 *     | 9266.6 *     | 11339.7 *    | 12899.1 *    | 14353.3 *    | 15684.2 *    | 16871.5 *   | 17893.3 *   | 18727.3 *   |
| -22.5           | 4543.7 *          | 5452.9 *     | 6778.9 *     | 8670.1 *     | 10078.4 *    | 11379.0 *    | 12556.9 *    | 13596.2 *   | 14480.6 *   | 15193.9 *   |
| -25.5           | 3790.1 *          | 4634.4 *     | 5446.4 *     | 6091.0 *     | 7105.4 *     | 8270.2 *     | 9316.3 *     | 10231.4 *   | 11003.0 *   | 11619.7 *   |
| -29.0           | 2821.6            | 3589.5 *     | 4319.2 *     | 4891.2 *     | 5320.5 *     | 5720.7 *     | 6087.8 *     | 6417.2 *    | 6888.8 *    | 7414.3 *    |
| -33.0           | 1886.9            | 2298.4       | 2938.6       | 3433.9 *     | 3801.3 *     | 4139.7 *     | 4446.0 *     | 4717.0 *    | 4949.3 *    | 5139.7 *    |
| -37.5           | 1615.9            | 1740.4       | 1855.8       | 1943.9       | 2017.7       | 2295.8       | 2544.0       | 2759.9      | 2941.2      | 3085.5 *    |
| -42.5           | 1297.3            | 1404.8       | 1503.5       | 1578.3       | 1633.0       | 1682.7       | 1727.2       | 1766.3      | 1799.6      | 1827.0      |
| -47.5           | 1062.6            | 1112.5       | 1158.2       | 1203.1       | 1248.9       | 1290.3       | 1327.1       | 1359.2      | 1386.4      | 1408.5      |
| -55.0           | 804.5             | 844.0        | 880.1        | 907.3        | 927.1        | 945.2        | 961.4        | 975.8       | 988.2       | 998.7       |
| -65.0           | 480.5             | 504.9        | 527.1        | 543.8        | 556.1        | 567.2        | 577.3        | 586.2       | 593.9       | 600.5       |
| -75.0           | 204.9             | 216.0        | 226.1        | 233.7        | 239.3        | 244.4        | 248.9        | 253.0       | 256.5       | 259.5       |
| -85.0           | 49.5              | 51.0         | 52.5         | 53.6         | 54.4         | 55.2         | 55.9         | 56.5        | 57.1        | 57.6        |
| -90.0           | 5.1               | 5.3          | 5.4          | 5.6          | 5.7          | 5.8          | 5.9          | 6.0         | 6.1         | 6.2         |

| Vert.<br>Angles | Horizontal 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            | 6.3               | 6.4         | 6.5        | 6.4        | 6.3        | 6.2        | 6.1        | 6.0        | 5.9         | 5.8         |
| 85.0            | 58.1              | 58.5        | 58.7       | 58.5       | 58.1       | 57.6       | 57.1       | 56.5       | 55.9        | 55.2        |
| 75.0            | 261.9             | 263.8       | 264.5      | 263.8      | 261.9      | 259.5      | 256.5      | 253.0      | 248.9       | 244.4       |
| 65.0            | 605.8             | 609.9       | 611.5      | 609.9      | 605.8      | 600.5      | 593.9      | 586.2      | 577.3       | 567.2       |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**CANDELA TABULATION - (Cont.)**

|       |           |           |           |           |           |           |           |           |           |           |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 55.0  | 1007.1    | 1013.6    | 1016.0    | 1013.6    | 1007.1    | 998.7     | 988.2     | 975.8     | 961.4     | 945.2     |
| 47.5  | 1425.4    | 1437.0    | 1440.8    | 1437.0    | 1425.4    | 1408.5    | 1386.4    | 1359.2    | 1327.1    | 1290.3    |
| 42.5  | 1848.3    | 1863.2    | 1868.3    | 1863.2    | 1848.3    | 1827.0    | 1799.6    | 1766.3    | 1727.2    | 1682.7    |
| 37.5  | 3190.9 *  | 3255.4 *  | 3271.8 *  | 3255.4 *  | 3190.9 *  | 3085.5 *  | 2941.2    | 2759.9    | 2544.0    | 2295.8    |
| 33.0  | 5285.2 *  | 5383.0 *  | 5413.3 *  | 5383.0 *  | 5285.2 *  | 5139.7 *  | 4949.3 *  | 4717.0 *  | 4446.0 *  | 4139.7 *  |
| 29.0  | 7794.6 *  | 8024.0 *  | 8080.9 *  | 8024.0 *  | 7794.6 *  | 7414.3 *  | 6888.8 *  | 6417.2 *  | 6087.8 *  | 5720.7 *  |
| 25.5  | 12071.0 * | 12348.7 * | 12420.5 * | 12348.7 * | 12071.0 * | 11619.7 * | 11003.0 * | 10231.4 * | 9316.3 *  | 8270.2 *  |
| 22.5  | 15721.7 * | 16052.0 * | 16140.3 * | 16052.0 * | 15721.7 * | 15193.9 * | 14480.6 * | 13596.2 * | 12556.9 * | 11379.0 * |
| 19.5  | 19246.8 * | 19567.3 * | 19665.5 * | 19567.3 * | 19246.8 * | 18727.3 * | 17893.3 * | 16871.5 * | 15684.2 * | 14353.3 * |
| 17.0  | 21322.6 * | 21683.8 * | 21793.0 * | 21683.8 * | 21322.6 * | 20779.7 * | 20070.5 * | 19213.3 * | 18172.4 * | 16695.7 * |
| 15.0  | 22971.3 * | 23374.5 * | 23495.0 * | 23374.5 * | 22971.3 * | 22364.9 * | 21576.9 * | 20632.2 * | 19555.9 * | 18370.7 * |
| 13.0  | 24604.2 * | 25061.5 * | 25197.0 * | 25061.5 * | 24604.2 * | 23917.9 * | 23033.8 * | 21986.1 * | 20806.8 * | 19523.1 * |
| 11.0  | 26213.3 * | 26743.2 * | 26899.0 * | 26743.2 * | 26213.3 * | 25423.7 * | 24421.3 * | 23252.8 * | 21958.2 * | 20568.6 * |
| 9.0   | 27510.6 * | 27894.7 * | 28038.0 * | 27894.7 * | 27510.6 * | 26857.7 * | 25708.6 * | 24400.4 * | 22980.3 * | 21481.3 * |
| 7.0   | 28045.8 * | 28466.2 * | 28614.0 * | 28466.2 * | 28045.8 * | 27476.6 * | 26794.0 * | 25384.8 * | 23835.6 * | 22230.3 * |
| 5.0   | 28551.5 * | 29033.9 * | 29190.0 * | 29033.9 * | 28551.5 * | 27890.0 * | 27116.4 * | 26147.5 * | 24479.2 * | 22781.9 * |
| 3.0   | 28986.0 * | 29590.3 * | 29766.0 * | 29590.3 * | 28986.0 * | 28189.4 * | 27311.2 * | 26395.2 * | 24863.7 * | 23103.4 * |
| 1.0   | 29218.8 * | 30082.0 * | 30342.0 * | 30082.0 * | 29218.8 * | 28274.1 * | 27313.0 * | 26346.1 * | 24949.8 * | 23169.3 * |
| 0.0   | 29169.0 * | 30143.0 * | 30630.0 * | 30143.0 * | 29169.0 * | 28195.0 * | 27221.0 * | 26247.0 * | 24874.0 * | 23102.0 * |
| -1.0  | 29218.8 * | 30082.0 * | 30342.0 * | 30082.0 * | 29218.8 * | 28274.1 * | 27313.0 * | 26346.1 * | 24949.8 * | 23169.3 * |
| -3.0  | 28986.0 * | 29590.3 * | 29766.0 * | 29590.3 * | 28986.0 * | 28189.4 * | 27311.2 * | 26395.2 * | 24863.7 * | 23103.4 * |
| -5.0  | 28551.5 * | 29033.9 * | 29190.0 * | 29033.9 * | 28551.5 * | 27890.0 * | 27116.4 * | 26147.5 * | 24479.2 * | 22781.9 * |
| -7.0  | 28045.8 * | 28466.2 * | 28614.0 * | 28466.2 * | 28045.8 * | 27476.6 * | 26794.0 * | 25384.8 * | 23835.6 * | 22230.3 * |
| -9.0  | 27510.6 * | 27894.7 * | 28038.0 * | 27894.7 * | 27510.6 * | 26857.7 * | 25708.6 * | 24400.4 * | 22980.3 * | 21481.3 * |
| -11.0 | 26213.3 * | 26743.2 * | 26899.0 * | 26743.2 * | 26213.3 * | 25423.7 * | 24421.3 * | 23252.8 * | 21958.2 * | 20568.6 * |
| -13.0 | 24604.2 * | 25061.5 * | 25197.0 * | 25061.5 * | 24604.2 * | 23917.9 * | 23033.8 * | 21986.1 * | 20806.8 * | 19523.1 * |
| -15.0 | 22971.3 * | 23374.5 * | 23495.0 * | 23374.5 * | 22971.3 * | 22364.9 * | 21576.9 * | 20632.2 * | 19555.9 * | 18370.7 * |
| -17.0 | 21322.6 * | 21683.8 * | 21793.0 * | 21683.8 * | 21322.6 * | 20779.7 * | 20070.5 * | 19213.3 * | 18172.4 * | 16695.7 * |
| -19.5 | 19246.8 * | 19567.3 * | 19665.5 * | 19567.3 * | 19246.8 * | 18727.3 * | 17893.3 * | 16871.5 * | 15684.2 * | 14353.3 * |
| -22.5 | 15721.7 * | 16052.0 * | 16140.3 * | 16052.0 * | 15721.7 * | 15193.9 * | 14480.6 * | 13596.2 * | 12556.9 * | 11379.0 * |
| -25.5 | 12071.0 * | 12348.7 * | 12420.5 * | 12348.7 * | 12071.0 * | 11619.7 * | 11003.0 * | 10231.4 * | 9316.3 *  | 8270.2 *  |
| -29.0 | 7794.6 *  | 8024.0 *  | 8080.9 *  | 8024.0 *  | 7794.6 *  | 7414.3 *  | 6888.8 *  | 6417.2 *  | 6087.8 *  | 5720.7 *  |
| -33.0 | 5285.2 *  | 5383.0 *  | 5413.3 *  | 5383.0 *  | 5285.2 *  | 5139.7 *  | 4949.3 *  | 4717.0 *  | 4446.0 *  | 4139.7 *  |
| -37.5 | 3190.9 *  | 3255.4 *  | 3271.8 *  | 3255.4 *  | 3190.9 *  | 3085.5 *  | 2941.2    | 2759.9    | 2544.0    | 2295.8    |
| -42.5 | 1848.3    | 1863.2    | 1868.3    | 1863.2    | 1848.3    | 1827.0    | 1799.6    | 1766.3    | 1727.2    | 1682.7    |
| -47.5 | 1425.4    | 1437.0    | 1440.8    | 1437.0    | 1425.4    | 1408.5    | 1386.4    | 1359.2    | 1327.1    | 1290.3    |
| -55.0 | 1007.1    | 1013.6    | 1016.0    | 1013.6    | 1007.1    | 998.7     | 988.2     | 975.8     | 961.4     | 945.2     |
| -65.0 | 605.8     | 609.9     | 611.5     | 609.9     | 605.8     | 600.5     | 593.9     | 586.2     | 577.3     | 567.2     |
| -75.0 | 261.9     | 263.8     | 264.5     | 263.8     | 261.9     | 259.5     | 256.5     | 253.0     | 248.9     | 244.4     |
| -85.0 | 58.1      | 58.5      | 58.7      | 58.5      | 58.1      | 57.6      | 57.1      | 56.5      | 55.9      | 55.2      |
| -90.0 | 6.3       | 6.4       | 6.5       | 6.4       | 6.3       | 6.2       | 6.1       | 6.0       | 5.9       | 5.8       |

**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 | 5.7         | 5.6         | 5.4         | 5.3         | 5.1         | 4.9         | 4.7         | 4.4         | 4.2         | 3.9         |
| 85.0 | 54.4        | 53.6        | 52.5        | 51.0        | 49.5        | 47.6        | 45.2        | 42.3        | 38.9        | 35.3        |
| 75.0 | 239.3       | 233.7       | 226.1       | 216.0       | 204.9       | 190.8       | 173.2       | 151.8       | 126.2       | 98.9        |
| 65.0 | 556.1       | 543.8       | 527.1       | 504.9       | 480.5       | 449.6       | 411.2       | 367.6       | 323.2       | 276.3       |
| 55.0 | 927.1       | 907.3       | 880.1       | 844.0       | 804.5       | 754.2       | 697.6       | 629.9       | 549.7       | 465.2       |
| 47.5 | 1248.9      | 1203.1      | 1158.2      | 1112.5      | 1062.6      | 999.6       | 921.9       | 828.0       | 717.5       | 614.6       |
| 42.5 | 1633.0      | 1578.3      | 1503.5      | 1404.8      | 1297.3      | 1162.0      | 1067.3      | 961.0       | 836.2       | 706.1       |
| 37.5 | 2017.7      | 1943.9      | 1855.8      | 1740.4      | 1615.9      | 1460.5      | 1271.5      | 1085.4      | 946.9       | 803.0       |
| 33.0 | 3801.3 *    | 3433.9 *    | 2938.6      | 2298.4      | 1886.9      | 1712.4      | 1502.1      | 1254.6      | 1037.9      | 882.6       |
| 29.0 | 5320.5 *    | 4891.2 *    | 4319.2 *    | 3589.5 *    | 2821.6      | 1927.4      | 1690.4      | 1422.9      | 1116.8      | 946.2       |
| 25.5 | 7105.4 *    | 6091.0 *    | 5446.4 *    | 4634.4 *    | 3790.1 *    | 2774.6      | 1840.1      | 1555.9      | 1233.0      | 995.7       |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |           |           |           |           |          |          |          |        |        |
|-------|---------|-----------|-----------|-----------|-----------|----------|----------|----------|--------|--------|
| 22.5  | 10078.4 | * 8670.1  | * 6778.9  | * 5452.9  | * 4543.7  | * 3460.7 | * 2203.3 | 1657.8   | 1321.7 | 1033.2 |
| 19.5  | 12899.1 | * 11339.7 | * 9266.6  | * 6630.7  | * 5215.1  | * 4069.4 | * 2750.5 | 1747.7   | 1399.8 | 1065.8 |
| 17.0  | 15099.4 | * 13404.1 | * 11171.9 | * 8362.1  | * 5703.1  | * 4511.2 | * 3147.9 | * 1812.8 | 1456.2 | 1098.3 |
| 15.0  | 16735.9 | * 14927.0 | * 12565.3 | * 9617.8  | * 6577.3  | * 4818.1 | * 3424.9 | * 1865.3 | 1495.4 | 1132.4 |
| 13.0  | 18157.0 | * 16313.7 | * 13823.8 | * 10743.6 | * 7589.5  | * 5081.3 | * 3663.9 | * 2081.7 | 1529.2 | 1161.8 |
| 11.0  | 19107.4 | * 17541.1 | * 14928.9 | * 11725.2 | * 8468.1  | * 5298.6 | * 3863.7 | * 2264.9 | 1557.5 | 1186.6 |
| 9.0   | 19925.6 | * 18328.5 | * 15861.2 | * 12548.7 | * 9202.5  | * 5468.6 | * 4023.4 | * 2414.5 | 1580.0 | 1206.6 |
| 7.0   | 20587.0 | * 18917.1 | * 16602.0 | * 13200.9 | * 9783.4  | * 5782.5 | * 4142.4 | * 2530.2 | 1596.9 | 1221.8 |
| 5.0   | 21066.2 | * 19338.0 | * 17134.4 | * 13670.2 | * 10202.8 | * 6155.0 | * 4220.6 | * 2611.8 | 1607.9 | 1232.1 |
| 3.0   | 21339.9 | * 19574.3 | * 17365.3 | * 13948.3 | * 10455.1 | * 6383.1 | * 4258.5 | * 2659.8 | 1613.2 | 1237.6 |
| 1.0   | 21390.9 | * 19613.9 | * 17394.0 | * 14030.2 | * 10537.1 | * 6464.5 | * 4256.7 | * 2674.7 | 1612.7 | 1238.2 |
| 0.0   | 21330.0 | * 19558.0 | * 17343.0 | * 13997.3 | * 10513.9 | * 6450.1 | * 4241.4 | * 2670.0 | 1610.3 | 1236.8 |
| -1.0  | 21390.9 | * 19613.9 | * 17394.0 | * 14030.2 | * 10537.1 | * 6464.5 | * 4256.7 | * 2674.7 | 1612.7 | 1238.2 |
| -3.0  | 21339.9 | * 19574.3 | * 17365.3 | * 13948.3 | * 10455.1 | * 6383.1 | * 4258.5 | * 2659.8 | 1613.2 | 1237.6 |
| -5.0  | 21066.2 | * 19338.0 | * 17134.4 | * 13670.2 | * 10202.8 | * 6155.0 | * 4220.6 | * 2611.8 | 1607.9 | 1232.1 |
| -7.0  | 20587.0 | * 18917.1 | * 16602.0 | * 13200.9 | * 9783.4  | * 5782.5 | * 4142.4 | * 2530.2 | 1596.9 | 1221.8 |
| -9.0  | 19925.6 | * 18328.5 | * 15861.2 | * 12548.7 | * 9202.5  | * 5468.6 | * 4023.4 | * 2414.5 | 1580.0 | 1206.6 |
| -11.0 | 19107.4 | * 17541.1 | * 14928.9 | * 11725.2 | * 8468.1  | * 5298.6 | * 3863.7 | * 2264.9 | 1557.5 | 1186.6 |
| -13.0 | 18157.0 | * 16313.7 | * 13823.8 | * 10743.6 | * 7589.5  | * 5081.3 | * 3663.9 | * 2081.7 | 1529.2 | 1161.8 |
| -15.0 | 16735.9 | * 14927.0 | * 12565.3 | * 9617.8  | * 6577.3  | * 4818.1 | * 3424.9 | * 1865.3 | 1495.4 | 1132.4 |
| -17.0 | 15099.4 | * 13404.1 | * 11171.9 | * 8362.1  | * 5703.1  | * 4511.2 | * 3147.9 | * 1812.8 | 1456.2 | 1098.3 |
| -19.5 | 12899.1 | * 11339.7 | * 9266.6  | * 6630.7  | * 5215.1  | * 4069.4 | * 2750.5 | 1747.7   | 1399.8 | 1065.8 |
| -22.5 | 10078.4 | * 8670.1  | * 6778.9  | * 5452.9  | * 4543.7  | * 3460.7 | * 2203.3 | 1657.8   | 1321.7 | 1033.2 |
| -25.5 | 7105.4  | * 6091.0  | * 5446.4  | * 4634.4  | * 3790.1  | * 2774.6 | 1840.1   | 1555.9   | 1233.0 | 995.7  |
| -29.0 | 5320.5  | * 4891.2  | * 4319.2  | * 3589.5  | * 2821.6  | 1927.4   | 1690.4   | 1422.9   | 1116.8 | 946.2  |
| -33.0 | 3801.3  | * 3433.9  | * 2938.6  | 2298.4    | 1886.9    | 1712.4   | 1502.1   | 1254.6   | 1037.9 | 882.6  |
| -37.5 | 2017.7  | 1943.9    | 1855.8    | 1740.4    | 1615.9    | 1460.5   | 1271.5   | 1085.4   | 946.9  | 803.0  |
| -42.5 | 1633.0  | 1578.3    | 1503.5    | 1404.8    | 1297.3    | 1162.0   | 1067.3   | 961.0    | 836.2  | 706.1  |
| -47.5 | 1248.9  | 1203.1    | 1158.2    | 1112.5    | 1062.6    | 999.6    | 921.9    | 828.0    | 717.5  | 614.6  |
| -55.0 | 927.1   | 907.3     | 880.1     | 844.0     | 804.5     | 754.2    | 697.6    | 629.9    | 549.7  | 465.2  |
| -65.0 | 556.1   | 543.8     | 527.1     | 504.9     | 480.5     | 449.6    | 411.2    | 367.6    | 323.2  | 276.3  |
| -75.0 | 239.3   | 233.7     | 226.1     | 216.0     | 204.9     | 190.8    | 173.2    | 151.8    | 126.2  | 98.9   |
| -85.0 | 54.4    | 53.6      | 52.5      | 51.0      | 49.5      | 47.6     | 45.2     | 42.3     | 38.9   | 35.3   |
| -90.0 | 5.7     | 5.6       | 5.4       | 5.3       | 5.1       | 4.9      | 4.7      | 4.4      | 4.2    | 3.9    |

| Vert.<br>Angles | Horizontal Angles |             |             |             |             |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
|                 | <u>55.0</u>       | <u>65.0</u> | <u>75.0</u> | <u>85.0</u> | <u>90.0</u> |
| 90.0            | 3.5               | 2.9         | 2.3         | 1.8         | 1.5         |
| 85.0            | 29.7              | 21.7        | 13.6        | 5.5         | 1.5         |
| 75.0            | 81.5              | 58.8        | 35.7        | 12.7        | 1.5         |
| 65.0            | 202.3             | 99.2        | 56.7        | 19.6        | 1.5         |
| 55.0            | 338.7             | 195.8       | 75.9        | 25.9        | 1.5         |
| 47.5            | 454.2             | 261.1       | 90.0        | 30.2        | 1.6         |
| 42.5            | 528.4             | 300.3       | 113.3       | 32.7        | 1.6         |
| 37.5            | 595.8             | 335.8       | 134.3       | 35.1        | 1.6         |
| 33.0            | 650.3             | 370.4       | 151.2       | 36.9        | 1.6         |
| 29.0            | 693.8             | 400.3       | 164.5       | 38.4        | 1.6         |
| 25.5            | 733.0             | 423.3       | 174.8       | 39.5        | 1.6         |
| 22.5            | 762.6             | 440.6       | 182.5       | 40.4        | 1.6         |
| 19.5            | 788.3             | 455.6       | 189.3       | 41.1        | 1.6         |
| 17.0            | 806.7             | 466.3       | 194.1       | 41.7        | 1.6         |
| 15.0            | 819.4             | 473.7       | 197.5       | 42.0        | 1.6         |
| 13.0            | 830.3             | 480.1       | 200.4       | 42.4        | 1.6         |
| 11.0            | 839.3             | 485.3       | 202.8       | 42.6        | 1.6         |
| 9.0             | 846.4             | 489.5       | 204.8       | 42.9        | 1.6         |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**CANDELA TABULATION - (Cont.)**

|              |       |       |       |      |     |
|--------------|-------|-------|-------|------|-----|
| <b>7.0</b>   | 851.5 | 492.6 | 206.3 | 43.0 | 1.6 |
| <b>5.0</b>   | 854.8 | 494.7 | 207.4 | 43.2 | 1.6 |
| <b>3.0</b>   | 856.1 | 495.6 | 208.0 | 43.2 | 1.6 |
| <b>1.0</b>   | 855.5 | 495.5 | 208.1 | 43.3 | 1.6 |
| <b>0.0</b>   | 854.5 | 495.0 | 208.0 | 43.3 | 1.6 |
| <b>-1.0</b>  | 855.5 | 495.5 | 208.1 | 43.3 | 1.6 |
| <b>-3.0</b>  | 856.1 | 495.6 | 208.0 | 43.2 | 1.6 |
| <b>-5.0</b>  | 854.8 | 494.7 | 207.4 | 43.2 | 1.6 |
| <b>-7.0</b>  | 851.5 | 492.6 | 206.3 | 43.0 | 1.6 |
| <b>-9.0</b>  | 846.4 | 489.5 | 204.8 | 42.9 | 1.6 |
| <b>-11.0</b> | 839.3 | 485.3 | 202.8 | 42.6 | 1.6 |
| <b>-13.0</b> | 830.3 | 480.1 | 200.4 | 42.4 | 1.6 |
| <b>-15.0</b> | 819.4 | 473.7 | 197.5 | 42.0 | 1.6 |
| <b>-17.0</b> | 806.7 | 466.3 | 194.1 | 41.7 | 1.6 |
| <b>-19.5</b> | 788.3 | 455.6 | 189.3 | 41.1 | 1.6 |
| <b>-22.5</b> | 762.6 | 440.6 | 182.5 | 40.4 | 1.6 |
| <b>-25.5</b> | 733.0 | 423.3 | 174.8 | 39.5 | 1.6 |
| <b>-29.0</b> | 693.8 | 400.3 | 164.5 | 38.4 | 1.6 |
| <b>-33.0</b> | 650.3 | 370.4 | 151.2 | 36.9 | 1.6 |
| <b>-37.5</b> | 595.8 | 335.8 | 134.3 | 35.1 | 1.6 |
| <b>-42.5</b> | 528.4 | 300.3 | 113.3 | 32.7 | 1.6 |
| <b>-47.5</b> | 454.2 | 261.1 | 90.0  | 30.2 | 1.6 |
| <b>-55.0</b> | 338.7 | 195.8 | 75.9  | 25.9 | 1.5 |
| <b>-65.0</b> | 202.3 | 99.2  | 56.7  | 19.6 | 1.5 |
| <b>-75.0</b> | 81.5  | 58.8  | 35.7  | 12.7 | 1.5 |
| <b>-85.0</b> | 29.7  | 21.7  | 13.6  | 5.5  | 1.5 |
| <b>-90.0</b> | 3.5   | 2.9   | 2.3   | 1.8  | 1.5 |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 9853.01

Total Field Lumens (one side of beam only) = 8174.3

\* Indicates Values Inside Field Edge

| Vert.<br>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              | 0.05              | 0.10     | 0.10     | 0.10     | 0.09     | 0.09     | 0.09      | 0.09      | 0.09      | 0.11      |
| 75              | 0.49              | 0.98     | 0.97     | 0.96     | 0.94     | 0.92     | 0.90      | 0.88      | 0.85      | 1.02      |
| 65              | 1.33              | 2.65     | 2.62     | 2.59     | 2.55     | 2.50     | 2.44      | 2.37      | 2.30      | 2.77      |
| 55              | 2.48              | 4.93     | 4.88     | 4.82     | 4.74     | 4.65     | 4.55      | 4.43      | 4.30      | 5.17      |
| 47.5            | 2.80              | 5.57     | 5.51     | 5.43     | 5.33     | 5.20     | 5.05      | 4.89      | 4.71      | 5.63      |
| 42.5            | 2.52              | 5.00     | 4.94     | 4.86     | 4.76     | 4.63     | 4.49      | 4.33      | 4.15      | 4.92      |
| 37.5            | 3.91              | 7.73     | 7.56     | 7.31     | 6.99     | 6.60     | 6.14      | 5.64      | 5.25      | 6.22      |
| 33              | 5.94 *            | 11.72 *  | 11.42 *  | 10.98 *  | 10.43 *  | 9.76 *   | 9.00 *    | 8.15 *    | 7.38      | 8.28      |
| 29              | 8.19 *            | 16.13 *  | 15.58 *  | 14.78 *  | 13.86 *  | 13.00 *  | 12.15 *   | 11.22 *   | 10.22 *   | 11.27 *   |
| 25.5            | 10.89 *           | 21.44 *  | 20.69 *  | 19.58 *  | 18.23 *  | 16.83 *  | 15.33 *   | 13.66 *   | 11.99 *   | 13.13 *   |
| 22.5            | 13.01 *           | 25.66 *  | 24.89 *  | 23.76 *  | 22.31 *  | 20.56 *  | 18.56 *   | 16.33 *   | 14.03 *   | 14.64 *   |
| 19.5            | 16.32 *           | 32.23 *  | 31.40 *  | 30.12 *  | 28.43 *  | 26.42 *  | 24.12 *   | 21.59 *   | 18.88 *   | 19.56 *   |
| 17              | 15.75 *           | 31.13 *  | 30.42 *  | 29.34 *  | 27.92 *  | 26.23 *  | 24.17 *   | 21.81 *   | 19.30 *   | 20.42 *   |
| 15              | 13.76 *           | 27.20 *  | 26.57 *  | 25.69 *  | 24.58 *  | 23.27 *  | 21.69 *   | 19.77 *   | 17.62 *   | 18.83 *   |
| 13              | 14.79 *           | 29.23 *  | 28.52 *  | 27.53 *  | 26.31 *  | 24.89 *  | 23.32 *   | 21.51 *   | 19.36 *   | 20.84 *   |
| 11              | 15.82 *           | 31.24 *  | 30.43 *  | 29.32 *  | 27.96 *  | 26.40 *  | 24.69 *   | 22.86 *   | 20.82 *   | 22.64 *   |
| 9               | 16.69 *           | 32.99 *  | 32.21 *  | 31.02 *  | 29.50 *  | 27.78 *  | 25.92 *   | 23.96 *   | 21.93 *   | 24.10 *   |
| 7               | 17.21 *           | 34.07 *  | 33.39 *  | 32.36 *  | 30.85 *  | 28.98 *  | 26.97 *   | 24.89 *   | 22.77 *   | 25.21 *   |
| 5               | 17.56 *           | 34.73 *  | 34.02 *  | 33.10 *  | 31.81 *  | 29.95 *  | 27.81 *   | 25.61 *   | 23.40 *   | 26.03 *   |
| 3               | 17.91 *           | 35.36 *  | 34.52 *  | 33.48 *  | 32.27 *  | 30.56 *  | 28.37 *   | 26.09 *   | 23.81 *   | 26.55 *   |
| 1               | 18.24 *           | 35.88 *  | 34.84 *  | 33.65 *  | 32.39 *  | 30.76 *  | 28.63 *   | 26.31 *   | 23.99 *   | 26.74 *   |
| 0               | 9.23 *            | 18.05 *  | 17.45 *  | 16.81 *  | 16.16 *  | 15.36 *  | 14.32 *   | 13.15 *   | 11.99 *   | 13.36 *   |
| -1              | 9.23 *            | 18.05 *  | 17.45 *  | 16.81 *  | 16.16 *  | 15.36 *  | 14.32 *   | 13.15 *   | 11.99 *   | 13.36 *   |
| -3              | 18.24 *           | 35.88 *  | 34.84 *  | 33.65 *  | 32.39 *  | 30.76 *  | 28.63 *   | 26.31 *   | 23.99 *   | 26.74 *   |
|                 | 17.91 *           | 35.36 *  | 34.52 *  | 33.48 *  | 32.27 *  | 30.56 *  | 28.37 *   | 26.09 *   | 23.81 *   | 26.55 *   |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**LUMENS TABULATION - (Cont.)**

|              |         |         |         |         |         |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>-5</b>    | 17.56 * | 34.73 * | 34.02 * | 33.10 * | 31.81 * | 29.95 * | 27.81 * | 25.61 * | 23.40 * | 26.03 * |
| <b>-7</b>    | 17.21 * | 34.07 * | 33.39 * | 32.36 * | 30.85 * | 28.98 * | 26.97 * | 24.89 * | 22.77 * | 25.21 * |
| <b>-9</b>    | 16.69 * | 32.99 * | 32.21 * | 31.02 * | 29.50 * | 27.78 * | 25.92 * | 23.96 * | 21.93 * | 24.10 * |
| <b>-11</b>   | 15.82 * | 31.24 * | 30.43 * | 29.32 * | 27.96 * | 26.40 * | 24.69 * | 22.86 * | 20.82 * | 22.64 * |
| <b>-13</b>   | 14.79 * | 29.23 * | 28.52 * | 27.53 * | 26.31 * | 24.89 * | 23.32 * | 21.51 * | 19.36 * | 20.84 * |
| <b>-15</b>   | 13.76 * | 27.20 * | 26.57 * | 25.69 * | 24.58 * | 23.27 * | 21.69 * | 19.77 * | 17.62 * | 18.83 * |
| <b>-17</b>   | 15.75 * | 31.13 * | 30.42 * | 29.34 * | 27.92 * | 26.23 * | 24.17 * | 21.81 * | 19.30 * | 20.42 * |
| <b>-19.5</b> | 16.32 * | 32.23 * | 31.40 * | 30.12 * | 28.43 * | 26.42 * | 24.12 * | 21.59 * | 18.88 * | 19.56 * |
| <b>-22.5</b> | 13.01 * | 25.66 * | 24.89 * | 23.76 * | 22.31 * | 20.56 * | 18.56 * | 16.33 * | 14.03 * | 14.64 * |
| <b>-25.5</b> | 10.89 * | 21.44 * | 20.69 * | 19.58 * | 18.23 * | 16.83 * | 15.33 * | 13.66 * | 11.99 * | 13.13 * |
| <b>-29</b>   | 8.19 *  | 16.13 * | 15.58 * | 14.78 * | 13.86 * | 13.00 * | 12.15 * | 11.22 * | 10.22 * | 11.27 * |
| <b>-33</b>   | 5.94 *  | 11.72 * | 11.42 * | 10.98 * | 10.43 * | 9.76 *  | 9.00 *  | 8.15 *  | 7.38    | 8.28    |
| <b>-37.5</b> | 3.91    | 7.73    | 7.56    | 7.31    | 6.99    | 6.60    | 6.14    | 5.64    | 5.25    | 6.22    |
| <b>-42.5</b> | 2.52    | 5.00    | 4.94    | 4.86    | 4.76    | 4.63    | 4.49    | 4.33    | 4.15    | 4.92    |
| <b>-47.5</b> | 2.80    | 5.57    | 5.51    | 5.43    | 5.33    | 5.20    | 5.05    | 4.89    | 4.71    | 5.63    |
| <b>-55</b>   | 2.48    | 4.93    | 4.88    | 4.82    | 4.74    | 4.65    | 4.55    | 4.43    | 4.30    | 5.17    |
| <b>-65</b>   | 1.33    | 2.65    | 2.62    | 2.59    | 2.55    | 2.50    | 2.44    | 2.37    | 2.30    | 2.77    |
| <b>-75</b>   | 0.49    | 0.98    | 0.97    | 0.96    | 0.94    | 0.92    | 0.90    | 0.88    | 0.85    | 1.02    |
| <b>-85</b>   | 0.05    | 0.10    | 0.10    | 0.10    | 0.09    | 0.09    | 0.09    | 0.09    | 0.09    | 0.11    |
| <b>-90</b>   |         |         |         |         |         |         |         |         |         |         |
| <b>Total</b> | 449.78  | 888.05  | 865.88  | 835.21  | 796.80  | 750.69  | 697.41  | 639.13  | 578.26  | 634.82  |

**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> |
|-------------|-------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|
| <b>90</b>   | 0.12        | 0.12        | 0.13        | 0.13      | 0.14      | 0.13        | 0.11        | 0.13        | 0.11      | 0.05      |
| <b>85</b>   | 1.16        | 1.09        | 1.17        | 1.19      | 1.15      | 1.05        | 0.81        | 0.88        | 0.73      | 0.34      |
| <b>75</b>   | 3.14        | 2.93        | 3.14        | 3.20      | 3.09      | 2.82        | 2.22        | 2.35        | 1.68      | 0.65      |
| <b>65</b>   | 5.88        | 5.50        | 5.90        | 6.04      | 5.89      | 5.45        | 4.35        | 4.58        | 3.18      | 1.11      |
| <b>55</b>   | 6.39        | 5.98        | 6.43        | 6.60      | 6.46      | 5.96        | 4.74        | 5.02        | 3.56      | 1.22      |
| <b>47.5</b> | 5.52        | 5.09        | 5.36        | 5.42      | 5.29      | 4.87        | 3.87        | 4.11        | 2.94      | 0.99      |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**LUMENS TABULATION - (Cont.)**

|              |         |         |         |         |        |      |      |      |      |      |
|--------------|---------|---------|---------|---------|--------|------|------|------|------|------|
| <b>42.5</b>  |         |         |         |         |        |      |      |      |      |      |
|              | 6.94    | 6.32    | 6.56    | 6.48    | 6.13   | 5.58 | 4.43 | 4.70 | 3.35 | 1.15 |
| <b>37.5</b>  |         |         |         |         |        |      |      |      |      |      |
|              | 8.48    | 7.08    | 7.12    | 6.99    | 6.44   | 5.67 | 4.45 | 4.71 | 3.34 | 1.16 |
| <b>33</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 11.21 * | 8.85    | 7.91    | 7.13    | 6.57   | 5.64 | 4.29 | 4.53 | 3.22 | 1.13 |
| <b>29</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 13.43 * | 10.84 * | 9.38    | 7.52    | 6.37   | 5.44 | 4.04 | 4.21 | 3.00 | 1.06 |
| <b>25.5</b>  |         |         |         |         |        |      |      |      |      |      |
|              | 14.28 * | 11.53 * | 10.36 * | 8.05    | 6.09   | 5.05 | 3.70 | 3.78 | 2.69 | 0.95 |
| <b>22.5</b>  |         |         |         |         |        |      |      |      |      |      |
|              | 18.00 * | 13.67 * | 12.29 * | 9.78 *  | 7.02   | 5.36 | 3.89 | 3.91 | 2.79 | 0.99 |
| <b>19.5</b>  |         |         |         |         |        |      |      |      |      |      |
|              | 18.89 * | 13.52 * | 11.55 * | 9.45 *  | 6.62   | 4.68 | 3.38 | 3.36 | 2.39 | 0.85 |
| <b>17</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 17.79 * | 12.63 * | 10.24 * | 8.30 *  | 5.74   | 3.87 | 2.79 | 2.76 | 1.95 | 0.69 |
| <b>15</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 19.94 * | 14.41 * | 11.40 * | 8.87 *  | 6.18   | 4.07 | 2.86 | 2.82 | 1.98 | 0.70 |
| <b>13</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 21.85 * | 16.08 * | 12.53 * | 9.35 *  | 6.64   | 4.34 | 2.93 | 2.87 | 2.00 | 0.71 |
| <b>11</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 23.49 * | 17.51 * | 13.48 * | 9.74 *  | 7.03 * | 4.56 | 2.98 | 2.91 | 2.02 | 0.72 |
| <b>9</b>     |         |         |         |         |        |      |      |      |      |      |
|              | 24.83 * | 18.67 * | 14.33 * | 10.14 * | 7.34 * | 4.74 | 3.02 | 2.95 | 2.04 | 0.72 |
| <b>7</b>     |         |         |         |         |        |      |      |      |      |      |
|              | 25.85 * | 19.56 * | 15.13 * | 10.60 * | 7.56 * | 4.87 | 3.05 | 2.97 | 2.05 | 0.73 |
| <b>5</b>     |         |         |         |         |        |      |      |      |      |      |
|              | 26.50 * | 20.15 * | 15.73 * | 10.97 * | 7.69 * | 4.95 | 3.06 | 2.99 | 2.05 | 0.73 |
| <b>3</b>     |         |         |         |         |        |      |      |      |      |      |
|              | 26.76 * | 20.44 * | 16.03 * | 11.15 * | 7.75 * | 4.99 | 3.07 | 2.99 | 2.06 | 0.73 |
| <b>1</b>     |         |         |         |         |        |      |      |      |      |      |
|              | 13.39 * | 10.24 * | 8.05 *  | 5.59 *  | 3.87 * | 2.50 | 1.53 | 1.50 | 1.03 | 0.37 |
| <b>0</b>     |         |         |         |         |        |      |      |      |      |      |
|              | 13.39 * | 10.24 * | 8.05 *  | 5.59 *  | 3.87 * | 2.50 | 1.53 | 1.50 | 1.03 | 0.37 |
| <b>-1</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 26.76 * | 20.44 * | 16.03 * | 11.15 * | 7.75 * | 4.99 | 3.07 | 2.99 | 2.06 | 0.73 |
| <b>-3</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 26.50 * | 20.15 * | 15.73 * | 10.97 * | 7.69 * | 4.95 | 3.06 | 2.99 | 2.05 | 0.73 |
| <b>-5</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 25.85 * | 19.56 * | 15.13 * | 10.60 * | 7.56 * | 4.87 | 3.05 | 2.97 | 2.05 | 0.73 |
| <b>-7</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 24.83 * | 18.67 * | 14.33 * | 10.14 * | 7.34 * | 4.74 | 3.02 | 2.95 | 2.04 | 0.72 |
| <b>-9</b>    |         |         |         |         |        |      |      |      |      |      |
|              | 23.49 * | 17.51 * | 13.48 * | 9.74 *  | 7.03 * | 4.56 | 2.98 | 2.91 | 2.02 | 0.72 |
| <b>-11</b>   |         |         |         |         |        |      |      |      |      |      |
|              | 21.85 * | 16.08 * | 12.53 * | 9.35 *  | 6.64   | 4.34 | 2.93 | 2.87 | 2.00 | 0.71 |
| <b>-13</b>   |         |         |         |         |        |      |      |      |      |      |
|              | 19.94 * | 14.41 * | 11.40 * | 8.87 *  | 6.18   | 4.07 | 2.86 | 2.82 | 1.98 | 0.70 |
| <b>-15</b>   |         |         |         |         |        |      |      |      |      |      |
|              | 17.79 * | 12.63 * | 10.24 * | 8.30 *  | 5.74   | 3.87 | 2.79 | 2.76 | 1.95 | 0.69 |
| <b>-17</b>   |         |         |         |         |        |      |      |      |      |      |
|              | 18.89 * | 13.52 * | 11.55 * | 9.45 *  | 6.62   | 4.68 | 3.38 | 3.36 | 2.39 | 0.85 |
| <b>-19.5</b> |         |         |         |         |        |      |      |      |      |      |
|              | 18.00 * | 13.67 * | 12.29 * | 9.78 *  | 7.02   | 5.36 | 3.89 | 3.91 | 2.79 | 0.99 |
| <b>-22.5</b> |         |         |         |         |        |      |      |      |      |      |
|              | 14.28 * | 11.53 * | 10.36 * | 8.05    | 6.09   | 5.05 | 3.70 | 3.78 | 2.69 | 0.95 |

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES

LUMENS TABULATION - (Cont.)

|              |         |         |        |        |        |        |        |        |        |       |
|--------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|-------|
| <b>-25.5</b> | 13.43 * | 10.84 * | 9.38   | 7.52   | 6.37   | 5.44   | 4.04   | 4.21   | 3.00   | 1.06  |
| <b>-29</b>   | 11.21 * | 8.85    | 7.91   | 7.13   | 6.57   | 5.64   | 4.29   | 4.53   | 3.22   | 1.13  |
| <b>-33</b>   | 8.48    | 7.08    | 7.12   | 6.99   | 6.44   | 5.67   | 4.45   | 4.71   | 3.34   | 1.16  |
| <b>-37.5</b> | 6.94    | 6.32    | 6.56   | 6.48   | 6.13   | 5.58   | 4.43   | 4.70   | 3.35   | 1.15  |
| <b>-42.5</b> | 5.52    | 5.09    | 5.36   | 5.42   | 5.29   | 4.87   | 3.87   | 4.11   | 2.94   | 0.99  |
| <b>-47.5</b> | 6.39    | 5.98    | 6.43   | 6.60   | 6.46   | 5.96   | 4.74   | 5.02   | 3.56   | 1.22  |
| <b>-55</b>   | 5.88    | 5.50    | 5.90   | 6.04   | 5.89   | 5.45   | 4.35   | 4.58   | 3.18   | 1.11  |
| <b>-65</b>   | 3.14    | 2.93    | 3.14   | 3.20   | 3.09   | 2.82   | 2.22   | 2.35   | 1.68   | 0.65  |
| <b>-75</b>   | 1.16    | 1.09    | 1.17   | 1.19   | 1.15   | 1.05   | 0.81   | 0.88   | 0.73   | 0.34  |
| <b>-85</b>   | 0.12    | 0.12    | 0.13   | 0.13   | 0.14   | 0.13   | 0.11   | 0.13   | 0.11   | 0.05  |
| <b>-90</b>   |         |         |        |        |        |        |        |        |        |       |
| <b>Total</b> | 627.65  | 484.41  | 408.39 | 325.39 | 254.11 | 193.16 | 139.11 | 142.07 | 100.32 | 35.53 |

| Vert.<br>Angles | Horizontal Angles |           |           |              |
|-----------------|-------------------|-----------|-----------|--------------|
|                 | <u>75</u>         | <u>85</u> | <u>90</u> | <u>Total</u> |
| <b>90</b>       |                   |           |           |              |
|                 | 0.02              | 0.00      |           | 2.09         |
| <b>85</b>       |                   |           |           |              |
|                 | 0.09              | 0.00      |           | 18.56        |
| <b>75</b>       |                   |           |           |              |
|                 | 0.16              | 0.01      |           | 49.54        |
| <b>65</b>       |                   |           |           |              |
|                 | 0.24              | 0.01      |           | 93.05        |
| <b>55</b>       |                   |           |           |              |
|                 | 0.22              | 0.01      |           | 102.72       |
| <b>47.5</b>     |                   |           |           |              |
|                 | 0.18              | 0.01      |           | 88.24        |
| <b>42.5</b>     |                   |           |           |              |
|                 | 0.21              | 0.01      |           | 115.20       |
| <b>37.5</b>     |                   |           |           |              |
|                 | 0.21              | 0.01      |           | 148.71       |
| <b>33</b>       |                   |           |           |              |
|                 | 0.21              | 0.01      |           | 187.09       |
| <b>29</b>       |                   |           |           |              |
|                 | 0.19              | 0.00      |           | 227.25       |
| <b>25.5</b>     |                   |           |           |              |
|                 | 0.17              | 0.00      |           | 260.41       |
| <b>22.5</b>     |                   |           |           |              |
|                 | 0.18              | 0.00      |           | 326.96       |
| <b>19.5</b>     |                   |           |           |              |
|                 | 0.15              | 0.00      |           | 321.33       |
| <b>17</b>       |                   |           |           |              |
|                 | 0.13              | 0.00      |           | 285.86       |
| <b>15</b>       |                   |           |           |              |
|                 | 0.13              | 0.00      |           | 309.67       |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES**

**LUMENS TABULATION - (Cont.)**

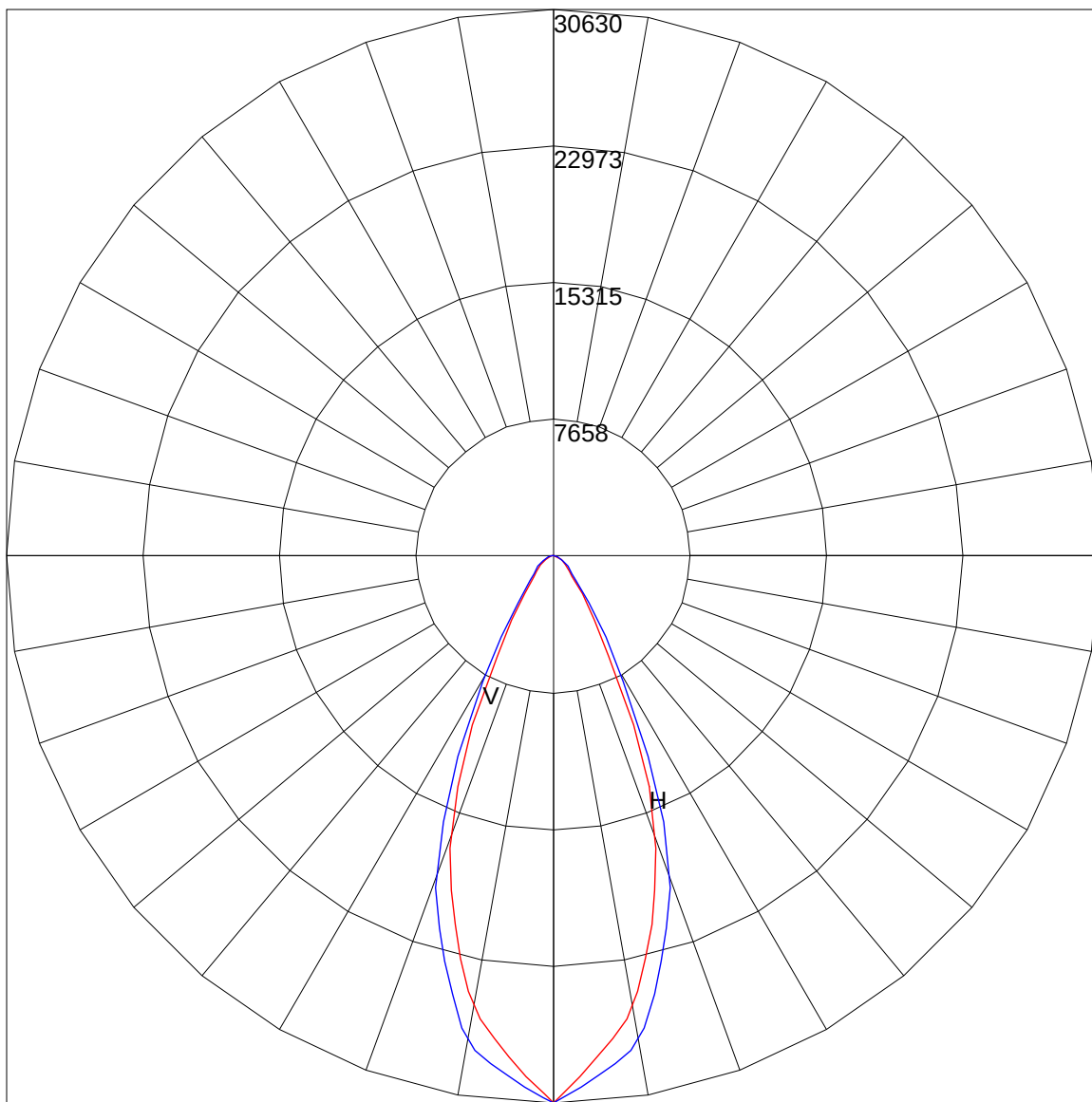
|              |      |      |        |
|--------------|------|------|--------|
| <b>13</b>    | 0.13 | 0.00 | 331.62 |
| <b>11</b>    | 0.13 | 0.00 | 350.66 |
| <b>9</b>     | 0.13 | 0.00 | 365.61 |
| <b>7</b>     | 0.13 | 0.00 | 376.52 |
| <b>5</b>     | 0.13 | 0.00 | 383.89 |
| <b>3</b>     | 0.13 | 0.00 | 387.54 |
| <b>1</b>     | 0.07 | 0.00 | 194.01 |
| <b>0</b>     | 0.07 | 0.00 | 194.01 |
| <b>-1</b>    | 0.13 | 0.00 | 387.54 |
| <b>-3</b>    | 0.13 | 0.00 | 383.89 |
| <b>-5</b>    | 0.13 | 0.00 | 376.52 |
| <b>-7</b>    | 0.13 | 0.00 | 365.61 |
| <b>-9</b>    | 0.13 | 0.00 | 350.66 |
| <b>-11</b>   | 0.13 | 0.00 | 331.62 |
| <b>-13</b>   | 0.13 | 0.00 | 309.67 |
| <b>-15</b>   | 0.13 | 0.00 | 285.86 |
| <b>-17</b>   | 0.15 | 0.00 | 321.33 |
| <b>-19.5</b> | 0.18 | 0.00 | 326.96 |
| <b>-22.5</b> | 0.17 | 0.00 | 260.41 |
| <b>-25.5</b> | 0.19 | 0.00 | 227.25 |
| <b>-29</b>   | 0.21 | 0.01 | 187.09 |
| <b>-33</b>   | 0.21 | 0.01 | 148.71 |
| <b>-37.5</b> | 0.21 | 0.01 | 115.20 |
| <b>-42.5</b> | 0.18 | 0.01 | 88.24  |
| <b>-47.5</b> | 0.22 | 0.01 | 102.72 |
| <b>-55</b>   | 0.24 | 0.01 | 93.05  |
| <b>-65</b>   | 0.16 | 0.01 | 49.54  |
| <b>-75</b>   | 0.09 | 0.00 | 18.56  |

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : LEDP5W-60-FLOOD.IES

LUMENS TABULATION - (Cont.)

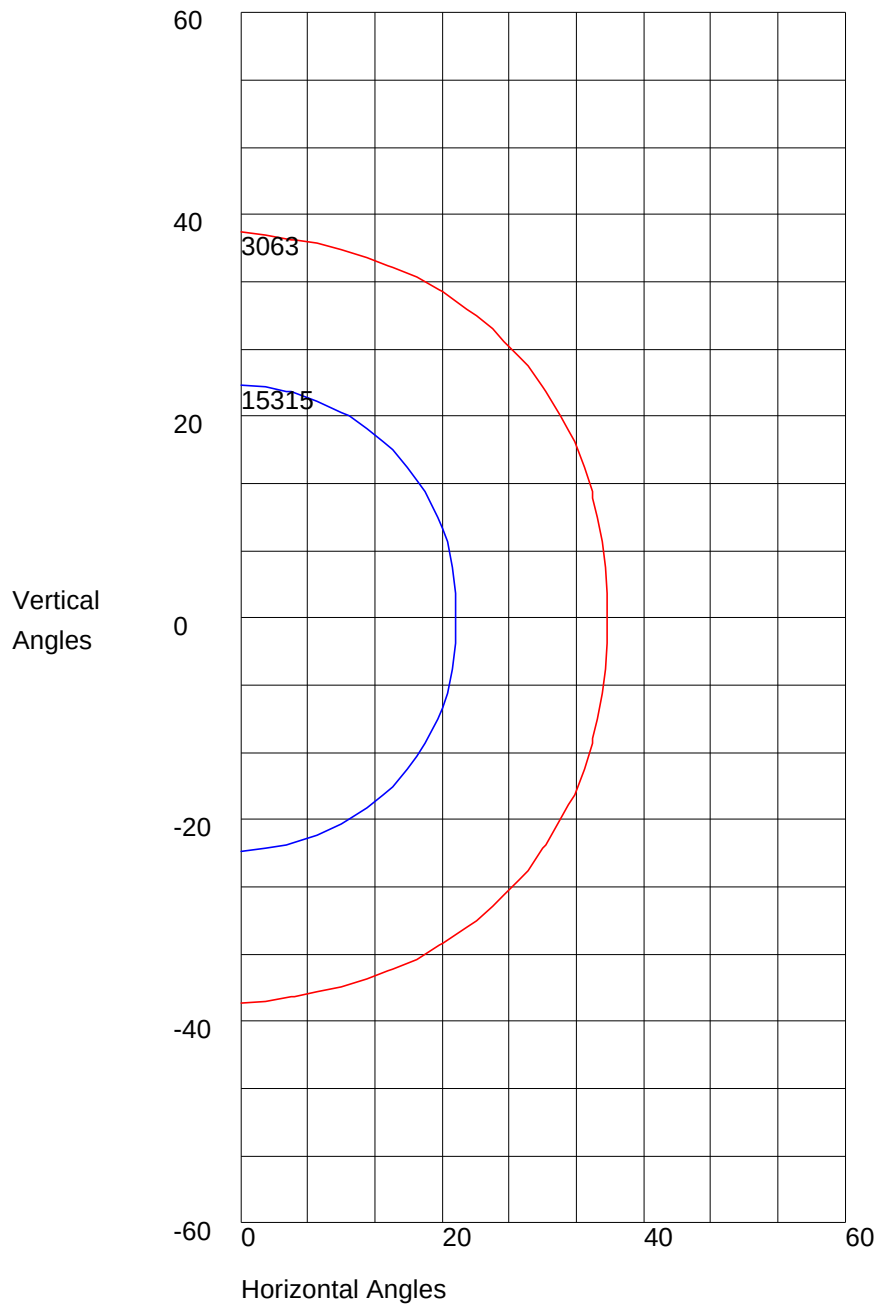
|       |      |      |         |
|-------|------|------|---------|
| -85   | 0.02 | 0.00 | 2.09    |
| -90   |      |      |         |
| Total | 6.67 | 0.18 | 9853.01 |

AXIAL CANDELA DISPLAY



Maximum Candela = 30630 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 30630 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 15315  
10% Maximum Candela = 3063