

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 1  
[TESTLAB] BEGHELLI  
[TESTDATE] 2017-11-16  
[ISSUEDATE] 2018-10-20 08:29:12  
[NEARFIELD]  
[LAMPPOSITION] 0,0  
[OTHER]  
[MANUFAC] BEGHELLI  
[LUMINAIRE] HZCAS35LHTMO5K

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

### CHARACTERISTICS

|                                 |                |
|---------------------------------|----------------|
| Lumens Per Lamp                 | 16610 (1 lamp) |
| Total Lamp Lumens               | 16610          |
| Luminaire Lumens                | 16611          |
| Total Luminaire Efficiency      | 100 %          |
| Luminaire Efficacy Rating (LER) | 136            |
| Total Luminaire Watts           | 122.1          |
| Ballast Factor                  | 1.00           |
| CIE Type                        | Direct         |
| Spacing Criterion (0-180)       | 1.32           |
| Spacing Criterion (90-270)      | 1.34           |
| Spacing Criterion (Diagonal)    | 1.42           |
| Basic Luminous Shape            | Point          |
| Luminous Length (0-180)         | 0.00 m         |
| Luminous Width (90-270)         | 0.00 m         |
| Luminous Height                 | 0.00 m         |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 0                | 0                 | 0                 |
| 55                  | 0                | 0                 | 0                 |
| 65                  | 0                | 0                 | 0                 |
| 75                  | 0                | 0                 | 0                 |
| 85                  | 0                | 0                 | 0                 |

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CANDELA TABULATION

|      | <u>0.0</u> | <u>2.5</u> | <u>5.0</u> | <u>7.5</u> | <u>10.0</u> | <u>12.5</u> | <u>15.0</u> | <u>17.5</u> | <u>20.0</u> | <u>22.5</u> |
|------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0  | 6087.75    | 6087.75    | 6087.75    | 6087.75    | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     |
| 2.5  | 6072.53    | 6072.63    | 6072.77    | 6072.93    | 6073.12     | 6073.34     | 6073.59     | 6073.87     | 6074.17     | 6074.54     |
| 5.0  | 6057.30    | 6057.44    | 6057.64    | 6057.90    | 6058.21     | 6058.49     | 6058.66     | 6058.91     | 6059.23     | 6059.57     |
| 7.5  | 6039.50    | 6039.88    | 6040.35    | 6040.94    | 6041.28     | 6041.70     | 6042.19     | 6042.43     | 6042.65     | 6042.94     |
| 10.0 | 6021.70    | 6022.42    | 6023.26    | 6024.01    | 6024.79     | 6025.49     | 6025.98     | 6026.55     | 6026.61     | 6026.72     |
| 12.5 | 6006.21    | 6006.41    | 6006.67    | 6006.62    | 6006.57     | 6006.23     | 6005.85     | 6005.31     | 6004.75     | 6004.17     |
| 15.0 | 5990.72    | 5990.13    | 5989.29    | 5987.98    | 5986.26     | 5984.24     | 5981.87     | 5979.28     | 5976.82     | 5974.03     |
| 17.5 | 5907.20    | 5907.90    | 5908.86    | 5910.01    | 5911.28     | 5912.28     | 5913.37     | 5914.54     | 5914.79     | 5916.32     |
| 20.0 | 5823.67    | 5825.57    | 5827.56    | 5829.63    | 5831.72     | 5833.73     | 5835.55     | 5836.25     | 5837.96     | 5838.80     |
| 22.5 | 5741.78    | 5742.42    | 5743.03    | 5743.95    | 5744.83     | 5745.85     | 5747.05     | 5748.59     | 5750.59     | 5753.13     |
| 25.0 | 5659.89    | 5658.88    | 5657.87    | 5656.67    | 5655.25     | 5653.86     | 5652.58     | 5651.45     | 5650.64     | 5650.38     |
| 27.5 | 5576.78    | 5577.13    | 5576.91    | 5576.16    | 5574.73     | 5572.42     | 5569.05     | 5564.33     | 5558.78     | 5552.03     |
| 30.0 | 5493.67    | 5495.62    | 5496.60    | 5497.13    | 5496.86     | 5495.16     | 5492.06     | 5487.61     | 5481.61     | 5474.10     |
| 32.5 | 5268.10    | 5269.73    | 5273.47    | 5279.58    | 5287.61     | 5297.90     | 5310.58     | 5325.53     | 5343.07     | 5363.64     |
| 35.0 | 5042.53    | 5042.25    | 5044.24    | 5047.84    | 5053.48     | 5061.10     | 5070.63     | 5082.11     | 5098.03     | 5116.11     |
| 37.5 | 4815.57    | 4817.46    | 4821.09    | 4825.65    | 4831.48     | 4837.73     | 4844.75     | 4852.42     | 4861.16     | 4870.51     |
| 40.0 | 4588.60    | 4592.93    | 4598.51    | 4605.20    | 4612.60     | 4620.80     | 4628.78     | 4637.62     | 4647.16     | 4657.09     |
| 42.5 | 4363.62    | 4365.94    | 4369.41    | 4374.48    | 4380.59     | 4388.25     | 4397.92     | 4409.72     | 4424.08     | 4440.84     |
| 45.0 | 4138.63    | 4138.73    | 4139.56    | 4141.70    | 4144.64     | 4148.82     | 4155.49     | 4164.05     | 4174.70     | 4188.29     |
| 47.5 | 3910.29    | 3912.78    | 3915.61    | 3918.60    | 3921.22     | 3923.71     | 3926.97     | 3929.87     | 3932.86     | 3937.00     |
| 50.0 | 3681.95    | 3687.08    | 3692.34    | 3697.13    | 3701.40     | 3704.70     | 3708.24     | 3711.92     | 3715.23     | 3718.98     |
| 52.5 | 3456.33    | 3459.31    | 3461.92    | 3463.94    | 3465.75     | 3469.13     | 3473.41     | 3479.39     | 3486.76     | 3496.33     |
| 55.0 | 3230.70    | 3231.35    | 3230.87    | 3229.33    | 3227.30     | 3226.38     | 3226.59     | 3228.12     | 3230.36     | 3235.19     |
| 57.5 | 3002.21    | 3005.03    | 3006.83    | 3006.44    | 3003.89     | 3000.60     | 2996.74     | 2992.07     | 2985.69     | 2978.98     |
| 60.0 | 2773.73    | 2778.89    | 2783.43    | 2785.30    | 2784.10     | 2781.38     | 2777.41     | 2773.71     | 2767.36     | 2759.29     |
| 62.5 | 2444.03    | 2448.02    | 2452.50    | 2456.78    | 2461.52     | 2467.61     | 2475.44     | 2484.07     | 2493.94     | 2508.05     |
| 65.0 | 2114.32    | 2116.01    | 2117.08    | 2117.94    | 2120.34     | 2124.01     | 2128.94     | 2130.32     | 2134.69     | 2146.76     |
| 67.5 | 1782.19    | 1785.12    | 1788.24    | 1789.97    | 1792.99     | 1796.49     | 1799.76     | 1796.87     | 1792.96     | 1797.10     |
| 70.0 | 1450.05    | 1454.32    | 1459.84    | 1463.96    | 1468.22     | 1473.82     | 1478.77     | 1479.04     | 1470.16     | 1473.80     |
| 72.5 | 1119.77    | 1122.72    | 1125.73    | 1128.58    | 1132.89     | 1137.36     | 1141.16     | 1135.78     | 1130.00     | 1140.05     |
| 75.0 | 789.49     | 791.05     | 791.32     | 792.63     | 796.15      | 798.95      | 796.48      | 778.18      | 778.59      | 791.74      |
| 77.5 | 394.75     | 396.43     | 399.19     | 404.15     | 411.80      | 420.18      | 425.46      | 420.21      | 429.60      | 445.73      |
| 80.0 | 0.00       | 1.47       | 5.86       | 13.11      | 23.15       | 35.72       | 50.06       | 64.46       | 82.16       | 102.56      |
| 82.5 | 0.00       | 0.00       | 0.00       | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| 85.0 | 0.00       | 0.00       | 0.00       | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| 87.5 | 0.00       | 0.00       | 0.00       | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| 90.0 | 0.00       | 0.00       | 0.00       | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |

Vert. Angles Horizontal Angles

|      | <u>25.0</u> | <u>27.5</u> | <u>30.0</u> | <u>32.5</u> | <u>35.0</u> | <u>37.5</u> | <u>40.0</u> | <u>42.5</u> | <u>45.0</u> | <u>47.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0  | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     |
| 2.5  | 6074.85     | 6075.20     | 6075.59     | 6076.01     | 6076.46     | 6076.93     | 6077.44     | 6077.97     | 6078.53     | 6079.11     |
| 5.0  | 6059.94     | 6060.22     | 6060.60     | 6061.07     | 6061.64     | 6062.24     | 6062.74     | 6063.35     | 6064.07     | 6064.90     |
| 7.5  | 6043.02     | 6042.95     | 6042.93     | 6042.93     | 6042.61     | 6042.36     | 6042.17     | 6041.94     | 6041.51     | 6041.59     |
| 10.0 | 6026.54     | 6026.13     | 6025.70     | 6024.87     | 6024.02     | 6023.13     | 6021.85     | 6020.65     | 6019.43     | 6017.83     |
| 12.5 | 6003.59     | 6003.03     | 6002.64     | 6002.39     | 6002.49     | 6002.49     | 6000.32     | 5997.42     | 5994.55     | 5991.39     |
| 15.0 | 5971.34     | 5968.78     | 5966.26     | 5964.25     | 5962.28     | 5960.94     | 5959.70     | 5959.20     | 5958.87     | 5959.43     |
| 17.5 | 5917.13     | 5917.82     | 5918.72     | 5918.13     | 5912.97     | 5910.14     | 5907.01     | 5904.24     | 5902.16     | 5900.86     |
| 20.0 | 5839.43     | 5839.89     | 5840.02     | 5840.04     | 5840.09     | 5840.20     | 5839.77     | 5840.08     | 5835.42     | 5832.01     |
| 22.5 | 5756.34     | 5760.43     | 5762.05     | 5761.06     | 5759.73     | 5758.12     | 5756.38     | 5754.27     | 5752.48     | 5750.41     |
| 25.0 | 5650.94     | 5652.45     | 5655.09     | 5659.08     | 5664.46     | 5669.27     | 5673.01     | 5668.87     | 5664.40     | 5659.79     |
| 27.5 | 5544.34     | 5539.04     | 5538.62     | 5539.46     | 5541.75     | 5545.86     | 5551.99     | 5560.26     | 5570.92     | 5565.34     |
| 30.0 | 5465.22     | 5455.23     | 5444.13     | 5431.80     | 5418.26     | 5412.37     | 5415.06     | 5420.18     | 5428.08     | 5439.06     |

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**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 32.5 | 5387.42 | 5375.87 | 5363.12 | 5348.53 | 5330.98 | 5314.58 | 5295.22 | 5274.67 | 5274.98 | 5283.34 |
| 35.0 | 5137.60 | 5162.47 | 5191.15 | 5222.33 | 5247.63 | 5226.50 | 5203.41 | 5178.95 | 5150.81 | 5127.20 |
| 37.5 | 4881.73 | 4905.81 | 4931.67 | 4961.17 | 4994.61 | 5032.92 | 5076.32 | 5083.69 | 5053.47 | 5021.55 |
| 40.0 | 4667.35 | 4678.21 | 4689.02 | 4699.02 | 4722.02 | 4757.38 | 4797.73 | 4844.18 | 4897.14 | 4917.24 |
| 42.5 | 4455.70 | 4466.85 | 4477.58 | 4486.84 | 4495.79 | 4504.83 | 4518.23 | 4554.49 | 4604.42 | 4661.30 |
| 45.0 | 4205.13 | 4225.00 | 4247.37 | 4273.00 | 4282.44 | 4292.17 | 4299.10 | 4306.06 | 4313.67 | 4353.20 |
| 47.5 | 3946.46 | 3957.90 | 3977.79 | 3999.03 | 4024.65 | 4054.73 | 4086.84 | 4092.09 | 4094.60 | 4082.14 |
| 50.0 | 3721.95 | 3723.25 | 3724.00 | 3723.76 | 3740.50 | 3766.28 | 3797.99 | 3833.96 | 3875.83 | 3858.85 |
| 52.5 | 3504.27 | 3505.34 | 3504.56 | 3502.39 | 3496.80 | 3493.88 | 3497.82 | 3510.63 | 3516.44 | 3532.94 |
| 55.0 | 3242.09 | 3250.13 | 3259.44 | 3269.71 | 3260.76 | 3240.79 | 3237.74 | 3203.11 | 3121.27 | 3115.99 |
| 57.5 | 2971.76 | 2970.26 | 2961.86 | 2940.37 | 2931.59 | 2949.69 | 2979.12 | 2956.40 | 2882.23 | 2828.71 |
| 60.0 | 2750.07 | 2735.36 | 2696.86 | 2628.00 | 2591.26 | 2605.95 | 2619.08 | 2623.20 | 2617.54 | 2606.80 |
| 62.5 | 2525.36 | 2517.55 | 2480.97 | 2400.48 | 2338.22 | 2313.57 | 2283.09 | 2257.43 | 2272.73 | 2295.65 |
| 65.0 | 2159.98 | 2166.34 | 2145.62 | 2099.09 | 2069.34 | 2062.61 | 2043.58 | 2022.42 | 2001.81 | 1969.05 |
| 67.5 | 1801.59 | 1782.16 | 1740.80 | 1713.05 | 1715.22 | 1730.99 | 1750.76 | 1775.50 | 1785.54 | 1747.57 |
| 70.0 | 1481.41 | 1472.28 | 1431.05 | 1396.95 | 1391.58 | 1393.77 | 1402.69 | 1421.48 | 1442.37 | 1446.95 |
| 72.5 | 1155.00 | 1166.17 | 1154.16 | 1115.81 | 1111.43 | 1116.77 | 1118.84 | 1114.93 | 1105.31 | 1047.14 |
| 75.0 | 806.07  | 814.27  | 800.70  | 792.93  | 805.23  | 821.09  | 833.74  | 847.05  | 847.96  | 818.17  |
| 77.5 | 461.56  | 471.10  | 461.42  | 470.17  | 484.48  | 495.73  | 501.43  | 524.00  | 545.05  | 548.55  |
| 80.0 | 123.92  | 144.10  | 158.28  | 178.42  | 199.78  | 214.72  | 225.22  | 243.90  | 253.84  | 259.37  |
| 82.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 8.69    | 33.99   | 56.39   |
| 85.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 87.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 90.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

**Vert.  
Angles**

**Horizontal Angles**

|      | <u>50.0</u> | <u>52.5</u> | <u>55.0</u> | <u>57.5</u> | <u>60.0</u> | <u>62.5</u> | <u>65.0</u> | <u>67.5</u> | <u>70.0</u> | <u>72.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0  | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     | 6087.75     |
| 2.5  | 6079.79     | 6080.36     | 6080.97     | 6081.60     | 6082.25     | 6082.93     | 6083.63     | 6084.35     | 6085.08     | 6085.82     |
| 5.0  | 6065.85     | 6066.82     | 6067.92     | 6069.01     | 6070.20     | 6071.50     | 6072.89     | 6074.38     | 6075.95     | 6077.61     |
| 7.5  | 6041.66     | 6042.40     | 6043.87     | 6045.13     | 6046.66     | 6048.45     | 6050.48     | 6052.23     | 6055.16     | 6057.68     |
| 10.0 | 6016.32     | 6014.08     | 6013.21     | 6011.46     | 6009.98     | 6011.61     | 6014.11     | 6016.82     | 6020.03     | 6023.71     |
| 12.5 | 5987.95     | 5984.58     | 5980.93     | 5977.23     | 5973.70     | 5970.22     | 5966.64     | 5965.39     | 5969.56     | 5972.87     |
| 15.0 | 5956.98     | 5951.21     | 5945.16     | 5939.04     | 5932.21     | 5926.94     | 5921.03     | 5915.46     | 5910.14     | 5911.83     |
| 17.5 | 5900.32     | 5900.77     | 5902.04     | 5897.30     | 5888.29     | 5879.11     | 5870.29     | 5861.63     | 5853.13     | 5845.17     |
| 20.0 | 5829.77     | 5828.55     | 5828.62     | 5830.09     | 5832.93     | 5826.87     | 5814.24     | 5801.47     | 5789.29     | 5777.71     |
| 22.5 | 5748.30     | 5744.90     | 5743.30     | 5743.44     | 5745.23     | 5749.01     | 5752.68     | 5735.70     | 5719.30     | 5703.24     |
| 25.0 | 5655.06     | 5650.37     | 5646.23     | 5644.74     | 5645.28     | 5648.47     | 5653.67     | 5661.02     | 5643.26     | 5622.31     |
| 27.5 | 5560.16     | 5552.24     | 5544.74     | 5534.94     | 5533.96     | 5535.88     | 5540.44     | 5548.13     | 5561.49     | 5535.01     |
| 30.0 | 5453.39     | 5452.23     | 5440.96     | 5427.61     | 5418.63     | 5408.43     | 5409.64     | 5419.36     | 5430.89     | 5440.03     |
| 32.5 | 5295.50     | 5311.82     | 5336.40     | 5316.35     | 5301.57     | 5285.29     | 5271.34     | 5276.37     | 5287.84     | 5304.19     |
| 35.0 | 5125.43     | 5138.80     | 5157.30     | 5177.56     | 5181.94     | 5160.09     | 5138.92     | 5118.85     | 5130.63     | 5148.54     |
| 37.5 | 4988.12     | 4954.70     | 4964.21     | 4990.10     | 5018.35     | 5031.96     | 5003.33     | 4976.01     | 4957.08     | 4975.70     |
| 40.0 | 4878.02     | 4837.42     | 4794.31     | 4781.89     | 4807.86     | 4842.49     | 4862.77     | 4826.36     | 4791.31     | 4782.34     |
| 42.5 | 4725.33     | 4721.27     | 4668.91     | 4613.91     | 4573.99     | 4600.64     | 4643.55     | 4664.27     | 4605.72     | 4535.83     |
| 45.0 | 4408.76     | 4475.15     | 4542.84     | 4473.35     | 4382.74     | 4282.28     | 4320.26     | 4390.06     | 4370.12     | 4248.33     |
| 47.5 | 4063.22     | 4113.10     | 4188.43     | 4280.67     | 4193.44     | 4040.29     | 3911.57     | 3984.90     | 4067.77     | 3975.88     |
| 50.0 | 3811.90     | 3764.68     | 3753.25     | 3820.76     | 3886.44     | 3819.04     | 3688.89     | 3628.93     | 3699.26     | 3743.48     |
| 52.5 | 3561.60     | 3501.65     | 3437.72     | 3372.29     | 3453.59     | 3533.47     | 3523.30     | 3429.25     | 3396.76     | 3474.91     |
| 55.0 | 3163.21     | 3210.41     | 3211.77     | 3158.76     | 3121.80     | 3179.29     | 3276.65     | 3275.98     | 3165.31     | 3175.37     |
| 57.5 | 2811.53     | 2852.85     | 2897.92     | 2950.03     | 2912.71     | 2874.99     | 2916.94     | 3033.67     | 3001.86     | 2869.41     |
| 60.0 | 2589.29     | 2573.10     | 2561.85     | 2605.92     | 2672.66     | 2669.96     | 2602.44     | 2619.85     | 2774.10     | 2684.79     |
| 62.5 | 2326.84     | 2344.05     | 2311.15     | 2290.56     | 2309.80     | 2366.67     | 2383.73     | 2272.41     | 2315.76     | 2504.18     |
| 65.0 | 1947.04     | 1973.09     | 2022.52     | 2046.82     | 1998.22     | 1883.90     | 1972.45     | 2033.11     | 1898.30     | 1946.27     |
| 67.5 | 1674.83     | 1622.21     | 1639.00     | 1695.05     | 1753.90     | 1646.52     | 1577.43     | 1653.71     | 1708.32     | 1563.68     |

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**CANDELA TABULATION - (Cont.)**

|             |         |         |         |         |         |         |         |         |         |         |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>70.0</b> | 1416.08 | 1377.30 | 1359.48 | 1313.30 | 1282.58 | 1332.21 | 1371.39 | 1316.19 | 1298.38 | 1384.44 |
| <b>72.5</b> | 1052.09 | 1073.42 | 1093.85 | 1098.27 | 1017.94 | 981.42  | 1017.56 | 1097.84 | 994.87  | 975.76  |
| <b>75.0</b> | 794.48  | 785.81  | 765.00  | 761.63  | 762.68  | 780.02  | 734.27  | 662.21  | 738.93  | 741.25  |
| <b>77.5</b> | 556.05  | 574.81  | 561.69  | 527.91  | 507.17  | 490.61  | 498.96  | 501.99  | 452.17  | 447.44  |
| <b>80.0</b> | 276.20  | 293.99  | 315.93  | 323.80  | 336.20  | 331.91  | 298.18  | 261.14  | 272.10  | 274.20  |
| <b>82.5</b> | 77.27   | 91.47   | 104.62  | 109.61  | 115.07  | 131.79  | 147.12  | 160.10  | 149.29  | 119.60  |
| <b>85.0</b> | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 13.16   | 23.37   | 29.95   | 34.35   | 47.50   |
| <b>87.5</b> | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| <b>90.0</b> | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

**Vert.  
Angles**

**Horizontal Angles**

|             | <u><b>75.0</b></u> | <u><b>77.5</b></u> | <u><b>80.0</b></u> | <u><b>82.5</b></u> | <u><b>85.0</b></u> | <u><b>87.5</b></u> | <u><b>90.0</b></u> | <u><b>92.5</b></u> | <u><b>95.0</b></u> | <u><b>97.5</b></u> |
|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>0.0</b>  | 6087.75            | 6087.75            | 6087.75            | 6087.75            | 6087.75            | 6087.75            | 6087.75            | 6087.75            | 6087.75            | 6087.75            |
| <b>2.5</b>  | 6086.58            | 6087.35            | 6088.12            | 6088.90            | 6089.68            | 6090.46            | 6091.23            | 6089.91            | 6088.59            | 6087.27            |
| <b>5.0</b>  | 6079.33            | 6081.12            | 6082.81            | 6084.78            | 6086.75            | 6088.74            | 6090.73            | 6087.63            | 6084.54            | 6081.46            |
| <b>7.5</b>  | 6060.43            | 6063.38            | 6066.51            | 6069.82            | 6073.27            | 6076.84            | 6080.53            | 6075.17            | 6069.91            | 6064.80            |
| <b>10.0</b> | 6027.83            | 6032.36            | 6037.27            | 6041.55            | 6047.67            | 6053.81            | 6059.97            | 6051.52            | 6043.10            | 6034.70            |
| <b>12.5</b> | 5979.84            | 5985.76            | 5992.31            | 5999.45            | 6007.13            | 6015.31            | 6023.95            | 6012.43            | 6001.38            | 5990.83            |
| <b>15.0</b> | 5918.55            | 5926.20            | 5934.75            | 5944.13            | 5953.06            | 5964.87            | 5976.71            | 5961.36            | 5946.05            | 5933.64            |
| <b>17.5</b> | 5844.85            | 5854.35            | 5864.95            | 5876.80            | 5889.81            | 5903.89            | 5918.95            | 5899.73            | 5881.50            | 5864.35            |
| <b>20.0</b> | 5766.55            | 5768.65            | 5781.84            | 5796.64            | 5810.52            | 5830.04            | 5849.62            | 5825.23            | 5800.90            | 5782.25            |
| <b>22.5</b> | 5688.11            | 5671.82            | 5686.22            | 5703.92            | 5723.65            | 5745.26            | 5768.58            | 5739.85            | 5712.86            | 5687.77            |
| <b>25.0</b> | 5602.25            | 5582.98            | 5577.06            | 5598.21            | 5621.91            | 5646.99            | 5676.24            | 5640.86            | 5609.66            | 5579.87            |
| <b>27.5</b> | 5508.23            | 5482.86            | 5459.06            | 5477.80            | 5505.83            | 5536.89            | 5570.74            | 5530.15            | 5492.38            | 5457.65            |
| <b>30.0</b> | 5406.54            | 5374.55            | 5344.59            | 5344.71            | 5377.47            | 5412.25            | 5453.44            | 5404.77            | 5362.55            | 5322.40            |
| <b>32.5</b> | 5298.56            | 5259.77            | 5220.50            | 5199.91            | 5237.57            | 5279.72            | 5325.96            | 5271.53            | 5221.21            | 5175.45            |
| <b>35.0</b> | 5172.08            | 5137.42            | 5092.12            | 5049.78            | 5083.66            | 5131.51            | 5188.78            | 5122.33            | 5065.35            | 5022.47            |
| <b>37.5</b> | 5002.35            | 5006.22            | 4950.23            | 4897.17            | 4910.79            | 4969.68            | 5034.83            | 4959.58            | 4890.70            | 4867.28            |
| <b>40.0</b> | 4809.21            | 4848.62            | 4792.87            | 4717.90            | 4700.04            | 4773.38            | 4863.93            | 4760.41            | 4674.47            | 4682.13            |
| <b>42.5</b> | 4544.41            | 4603.00            | 4591.01            | 4460.80            | 4377.11            | 4500.17            | 4639.12            | 4486.14            | 4348.89            | 4418.31            |
| <b>45.0</b> | 4164.42            | 4238.99            | 4312.26            | 4153.22            | 4013.25            | 4144.71            | 4304.66            | 4132.86            | 3987.59            | 4110.44            |
| <b>47.5</b> | 3863.03            | 3883.07            | 3956.70            | 3880.40            | 3774.69            | 3852.65            | 3973.65            | 3841.50            | 3751.99            | 3843.16            |
| <b>50.0</b> | 3662.95            | 3613.89            | 3677.67            | 3678.70            | 3566.42            | 3603.38            | 3731.97            | 3592.23            | 3543.36            | 3642.79            |
| <b>52.5</b> | 3478.38            | 3392.68            | 3425.75            | 3486.03            | 3357.66            | 3367.47            | 3500.68            | 3354.60            | 3332.79            | 3449.56            |
| <b>55.0</b> | 3276.26            | 3195.75            | 3154.83            | 3251.72            | 3143.14            | 3106.30            | 3265.80            | 3091.55            | 3114.44            | 3209.87            |
| <b>57.5</b> | 2955.97            | 2993.22            | 2868.13            | 2964.84            | 2915.33            | 2835.83            | 3018.86            | 2819.15            | 2882.90            | 2916.90            |
| <b>60.0</b> | 2570.55            | 2731.61            | 2618.30            | 2620.67            | 2657.61            | 2453.50            | 2744.04            | 2429.43            | 2618.97            | 2557.60            |
| <b>62.5</b> | 2228.11            | 2269.30            | 2312.75            | 2157.22            | 2327.73            | 2046.64            | 2348.76            | 2030.44            | 2276.61            | 2098.63            |
| <b>65.0</b> | 1997.69            | 1814.61            | 2001.51            | 1829.81            | 1968.71            | 1771.40            | 1982.12            | 1757.17            | 1934.76            | 1785.24            |
| <b>67.5</b> | 1654.10            | 1630.93            | 1590.27            | 1610.60            | 1621.89            | 1483.20            | 1706.27            | 1464.79            | 1587.11            | 1554.49            |
| <b>70.0</b> | 1221.13            | 1399.27            | 1172.83            | 1378.53            | 1204.09            | 1181.85            | 1353.68            | 1162.41            | 1167.61            | 1317.36            |
| <b>72.5</b> | 1062.69            | 902.71             | 1015.18            | 944.22             | 858.64             | 934.36             | 1034.31            | 914.86             | 817.86             | 886.28             |
| <b>75.0</b> | 656.38             | 736.71             | 666.55             | 593.20             | 670.74             | 703.42             | 729.44             | 683.84             | 632.75             | 545.25             |
| <b>77.5</b> | 501.86             | 396.26             | 434.91             | 479.11             | 435.74             | 438.28             | 468.32             | 420.42             | 404.99             | 431.75             |
| <b>80.0</b> | 220.40             | 279.77             | 197.91             | 195.26             | 175.91             | 167.70             | 250.38             | 160.11             | 159.38             | 163.37             |
| <b>82.5</b> | 116.98             | 111.69             | 106.51             | 67.29              | 73.19              | 87.27              | 106.15             | 79.70              | 61.31              | 48.48              |
| <b>85.0</b> | 57.75              | 46.60              | 36.71              | 29.86              | 22.88              | 23.06              | 32.06              | 17.69              | 16.47              | 21.34              |
| <b>87.5</b> | 0.00               | 7.19               | 17.79              | 21.21              | 17.26              | 14.04              | 13.10              | 9.36               | 10.30              | 11.70              |
| <b>90.0</b> | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 13.08              | 0.00               | 0.00               | 0.00               |

**Vert.  
Angles**

**Horizontal Angles**

|            | <u><b>100.0</b></u> | <u><b>102.5</b></u> | <u><b>105.0</b></u> | <u><b>107.5</b></u> | <u><b>110.0</b></u> | <u><b>112.5</b></u> | <u><b>115.0</b></u> | <u><b>117.5</b></u> | <u><b>120.0</b></u> | <u><b>122.5</b></u> |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>0.0</b> | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             |
| <b>2.5</b> | 6085.95             | 6084.65             | 6083.35             | 6082.07             | 6080.81             | 6079.58             | 6078.36             | 6077.18             | 6076.03             | 6074.91             |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES**

**CANDELA TABULATION - (Cont.)**

|             |         |         |         |         |         |         |         |         |         |         |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>5.0</b>  | 6078.40 | 6075.63 | 6072.77 | 6069.99 | 6067.29 | 6064.69 | 6062.20 | 6059.82 | 6057.57 | 6055.44 |
| <b>7.5</b>  | 6059.83 | 6055.06 | 6050.48 | 6046.13 | 6042.03 | 6037.54 | 6034.27 | 6030.75 | 6027.50 | 6024.56 |
| <b>10.0</b> | 6028.18 | 6021.03 | 6014.30 | 6008.00 | 6002.18 | 5996.88 | 5992.12 | 5987.63 | 5983.94 | 5983.72 |
| <b>12.5</b> | 5980.86 | 5971.49 | 5962.78 | 5953.06 | 5947.04 | 5940.20 | 5938.86 | 5939.92 | 5940.96 | 5942.16 |
| <b>15.0</b> | 5920.81 | 5908.84 | 5897.82 | 5887.79 | 5882.85 | 5884.99 | 5887.43 | 5890.28 | 5892.55 | 5896.48 |
| <b>17.5</b> | 5848.39 | 5833.72 | 5820.21 | 5816.62 | 5820.79 | 5825.58 | 5830.63 | 5835.92 | 5841.66 | 5847.32 |
| <b>20.0</b> | 5762.72 | 5744.83 | 5738.11 | 5744.71 | 5751.82 | 5759.63 | 5768.14 | 5776.68 | 5778.78 | 5772.03 |
| <b>22.5</b> | 5664.76 | 5645.09 | 5655.98 | 5665.83 | 5676.74 | 5688.13 | 5700.17 | 5691.82 | 5683.41 | 5677.16 |
| <b>25.0</b> | 5552.68 | 5552.69 | 5566.18 | 5580.53 | 5595.76 | 5607.80 | 5595.04 | 5584.68 | 5576.35 | 5570.66 |
| <b>27.5</b> | 5432.22 | 5449.25 | 5467.94 | 5488.16 | 5505.94 | 5489.03 | 5475.32 | 5464.78 | 5457.31 | 5452.85 |
| <b>30.0</b> | 5314.97 | 5337.67 | 5362.42 | 5388.71 | 5372.75 | 5354.53 | 5338.25 | 5328.30 | 5333.57 | 5335.90 |
| <b>32.5</b> | 5187.93 | 5219.18 | 5250.19 | 5248.20 | 5224.30 | 5205.47 | 5192.52 | 5199.60 | 5208.02 | 5215.03 |
| <b>35.0</b> | 5056.20 | 5093.01 | 5119.12 | 5087.12 | 5061.21 | 5041.70 | 5052.70 | 5065.47 | 5079.39 | 5067.00 |
| <b>37.5</b> | 4910.53 | 4956.93 | 4943.75 | 4907.88 | 4880.02 | 4890.23 | 4908.64 | 4927.93 | 4905.73 | 4869.18 |
| <b>40.0</b> | 4748.33 | 4794.61 | 4743.35 | 4707.15 | 4706.86 | 4732.08 | 4759.58 | 4729.76 | 4686.50 | 4652.25 |
| <b>42.5</b> | 4535.94 | 4535.37 | 4462.26 | 4440.60 | 4503.82 | 4555.04 | 4522.98 | 4468.39 | 4434.38 | 4471.40 |
| <b>45.0</b> | 4250.97 | 4166.71 | 4078.21 | 4145.55 | 4253.63 | 4264.16 | 4181.30 | 4127.82 | 4222.28 | 4314.51 |
| <b>47.5</b> | 3904.58 | 3822.68 | 3788.92 | 3878.24 | 3950.47 | 3859.59 | 3775.19 | 3876.91 | 4012.27 | 4094.95 |
| <b>50.0</b> | 3630.48 | 3555.48 | 3587.19 | 3647.91 | 3587.13 | 3506.32 | 3552.41 | 3654.39 | 3693.94 | 3608.38 |
| <b>52.5</b> | 3377.17 | 3331.72 | 3395.97 | 3374.41 | 3279.49 | 3296.94 | 3381.69 | 3371.00 | 3262.91 | 3158.90 |
| <b>55.0</b> | 3098.65 | 3124.80 | 3189.01 | 3071.18 | 3041.96 | 3129.94 | 3110.57 | 2990.10 | 2909.49 | 2921.34 |
| <b>57.5</b> | 2804.03 | 2913.41 | 2859.53 | 2757.84 | 2868.92 | 2871.14 | 2727.78 | 2659.69 | 2671.46 | 2685.65 |
| <b>60.0</b> | 2536.08 | 2633.74 | 2441.59 | 2555.34 | 2631.80 | 2444.09 | 2381.84 | 2427.30 | 2403.62 | 2314.49 |
| <b>62.5</b> | 2226.96 | 2172.72 | 2101.48 | 2344.81 | 2140.93 | 2077.90 | 2123.54 | 2079.83 | 2003.72 | 1986.52 |
| <b>65.0</b> | 1923.52 | 1728.83 | 1885.59 | 1790.12 | 1714.81 | 1822.83 | 1728.51 | 1601.49 | 1676.23 | 1758.02 |
| <b>67.5</b> | 1509.38 | 1532.11 | 1540.71 | 1408.24 | 1507.53 | 1425.12 | 1337.61 | 1378.53 | 1445.12 | 1414.26 |
| <b>70.0</b> | 1099.48 | 1276.36 | 1079.81 | 1200.60 | 1084.76 | 1072.95 | 1151.56 | 1115.70 | 1055.92 | 1043.63 |
| <b>72.5</b> | 939.16  | 804.86  | 913.26  | 809.18  | 810.83  | 882.73  | 815.49  | 788.07  | 817.31  | 845.14  |
| <b>75.0</b> | 589.37  | 626.50  | 528.20  | 588.58  | 592.04  | 517.04  | 556.76  | 612.08  | 601.48  | 580.09  |
| <b>77.5</b> | 365.28  | 305.47  | 388.96  | 340.82  | 337.33  | 374.32  | 369.09  | 354.51  | 369.49  | 385.13  |
| <b>80.0</b> | 146.95  | 207.56  | 159.48  | 192.08  | 195.18  | 186.54  | 206.50  | 222.55  | 230.46  | 209.04  |
| <b>82.5</b> | 76.22   | 74.58   | 79.60   | 83.42   | 99.91   | 102.39  | 89.72   | 69.05   | 48.74   | 48.02   |
| <b>85.0</b> | 24.70   | 30.27   | 38.42   | 31.89   | 20.68   | 15.05   | 10.33   | 5.70    | 0.00    | 0.00    |
| <b>87.5</b> | 8.55    | 4.23    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| <b>90.0</b> | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

**Vert.  
Angles**

**Horizontal Angles**

|             | <b>125.0</b> | <b>127.5</b> | <b>130.0</b> | <b>132.5</b> | <b>135.0</b> | <b>137.5</b> | <b>140.0</b> | <b>142.5</b> | <b>145.0</b> | <b>147.5</b> |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>0.0</b>  | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      |
| <b>2.5</b>  | 6073.83      | 6072.79      | 6071.80      | 6070.71      | 6069.74      | 6068.81      | 6067.93      | 6067.09      | 6066.29      | 6065.55      |
| <b>5.0</b>  | 6053.45      | 6051.46      | 6049.65      | 6047.90      | 6046.29      | 6044.82      | 6043.51      | 6042.35      | 6041.13      | 6039.98      |
| <b>7.5</b>  | 6021.92      | 6019.11      | 6017.10      | 6015.39      | 6014.59      | 6013.93      | 6013.13      | 6012.36      | 6011.71      | 6011.19      |
| <b>10.0</b> | 5983.68      | 5982.81      | 5983.39      | 5983.30      | 5983.37      | 5983.12      | 5982.94      | 5982.92      | 5982.61      | 5982.35      |
| <b>12.5</b> | 5943.61      | 5945.11      | 5946.41      | 5947.88      | 5949.13      | 5950.16      | 5951.30      | 5951.65      | 5950.34      | 5948.81      |
| <b>15.0</b> | 5899.79      | 5903.16      | 5906.42      | 5906.48      | 5903.62      | 5901.76      | 5900.14      | 5899.41      | 5898.93      | 5899.26      |
| <b>17.5</b> | 5848.76      | 5844.29      | 5840.76      | 5838.38      | 5836.88      | 5836.32      | 5836.56      | 5837.31      | 5837.88      | 5841.19      |
| <b>20.0</b> | 5766.79      | 5763.08      | 5760.86      | 5759.85      | 5760.24      | 5761.38      | 5758.33      | 5755.57      | 5752.49      | 5749.72      |
| <b>22.5</b> | 5672.74      | 5670.19      | 5667.29      | 5667.61      | 5665.90      | 5664.15      | 5662.81      | 5661.06      | 5659.24      | 5657.35      |
| <b>25.0</b> | 5566.44      | 5566.08      | 5565.87      | 5565.96      | 5566.23      | 5566.71      | 5567.15      | 5559.80      | 5551.38      | 5542.50      |
| <b>27.5</b> | 5456.87      | 5458.39      | 5460.55      | 5460.31      | 5460.97      | 5445.78      | 5433.24      | 5423.14      | 5415.31      | 5409.53      |
| <b>30.0</b> | 5343.15      | 5348.47      | 5343.61      | 5323.64      | 5307.36      | 5294.33      | 5284.05      | 5276.49      | 5278.23      | 5288.17      |
| <b>32.5</b> | 5224.19      | 5197.15      | 5174.66      | 5156.58      | 5142.92      | 5137.56      | 5152.52      | 5166.21      | 5177.76      | 5191.28      |
| <b>35.0</b> | 5039.21      | 5013.58      | 4993.33      | 4988.39      | 5006.11      | 5029.37      | 5048.36      | 5065.19      | 5080.85      | 5048.07      |
| <b>37.5</b> | 4834.99      | 4817.69      | 4844.85      | 4871.02      | 4896.35      | 4921.19      | 4906.29      | 4851.86      | 4802.75      | 4759.59      |
| <b>40.0</b> | 4655.11      | 4689.13      | 4722.49      | 4754.54      | 4724.06      | 4659.52      | 4601.59      | 4549.66      | 4503.69      | 4470.81      |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES**

**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 42.5 | 4518.71 | 4560.83 | 4553.45 | 4476.57 | 4407.74 | 4346.49 | 4293.50 | 4270.63 | 4249.29 | 4229.74 |
| 45.0 | 4382.01 | 4292.10 | 4205.14 | 4137.27 | 4089.61 | 4072.56 | 4053.14 | 4031.14 | 4007.63 | 3987.07 |
| 47.5 | 3990.97 | 3895.46 | 3821.37 | 3832.01 | 3842.09 | 3832.67 | 3816.10 | 3769.94 | 3725.93 | 3687.04 |
| 50.0 | 3522.34 | 3511.68 | 3535.19 | 3570.22 | 3589.75 | 3540.85 | 3499.19 | 3458.48 | 3421.49 | 3389.94 |
| 52.5 | 3189.81 | 3226.13 | 3251.57 | 3203.43 | 3167.83 | 3157.40 | 3152.18 | 3163.95 | 3159.50 | 3157.38 |
| 55.0 | 2941.79 | 2917.50 | 2850.97 | 2778.99 | 2745.44 | 2826.92 | 2892.68 | 2905.89 | 2909.38 | 2907.82 |
| 57.5 | 2608.08 | 2540.95 | 2485.04 | 2495.12 | 2525.15 | 2594.12 | 2644.12 | 2620.51 | 2591.52 | 2575.74 |
| 60.0 | 2247.62 | 2249.54 | 2267.53 | 2281.61 | 2275.42 | 2275.26 | 2279.57 | 2275.93 | 2263.37 | 2267.32 |
| 62.5 | 2004.39 | 2016.39 | 1997.69 | 1971.01 | 1956.86 | 1938.20 | 1955.42 | 1984.76 | 2001.94 | 2018.99 |
| 65.0 | 1738.67 | 1686.23 | 1640.01 | 1625.96 | 1691.90 | 1715.68 | 1731.49 | 1745.46 | 1740.50 | 1730.32 |
| 67.5 | 1381.36 | 1363.51 | 1373.25 | 1411.85 | 1483.92 | 1479.03 | 1455.78 | 1432.74 | 1411.93 | 1397.74 |
| 70.0 | 1114.27 | 1135.71 | 1133.76 | 1125.75 | 1142.65 | 1146.23 | 1129.44 | 1113.84 | 1105.84 | 1101.46 |
| 72.5 | 872.74  | 859.54  | 835.97  | 812.35  | 823.74  | 857.69  | 859.23  | 847.03  | 837.74  | 830.52  |
| 75.0 | 555.71  | 595.24  | 600.56  | 596.62  | 603.77  | 614.75  | 593.35  | 568.19  | 545.21  | 529.63  |
| 77.5 | 391.22  | 405.41  | 383.73  | 358.76  | 339.86  | 322.92  | 295.95  | 271.09  | 242.83  | 235.76  |
| 80.0 | 186.14  | 163.61  | 133.09  | 120.94  | 117.78  | 116.91  | 110.80  | 106.31  | 97.20   | 88.32   |
| 82.5 | 45.23   | 40.68   | 33.78   | 26.43   | 15.71   | 4.15    | 0.00    | 0.00    | 0.00    | 0.00    |
| 85.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 87.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 90.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

**Vert. Angles**      **Horizontal Angles**

|      | <u>150.0</u> | <u>152.5</u> | <u>155.0</u> | <u>157.5</u> | <u>160.0</u> | <u>162.5</u> | <u>165.0</u> | <u>167.5</u> | <u>170.0</u> | <u>172.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      |
| 2.5  | 6064.85      | 6064.21      | 6063.61      | 6063.09      | 6062.54      | 6062.06      | 6061.64      | 6061.26      | 6060.94      | 6060.67      |
| 5.0  | 6038.98      | 6038.11      | 6037.38      | 6036.60      | 6035.88      | 6035.23      | 6034.70      | 6034.28      | 6032.97      | 6032.88      |
| 7.5  | 6010.41      | 6009.70      | 6009.12      | 6008.44      | 6007.63      | 6006.95      | 6006.31      | 6005.52      | 6004.85      | 6004.34      |
| 10.0 | 5982.14      | 5981.67      | 5981.27      | 5980.70      | 5979.90      | 5979.23      | 5978.14      | 5977.22      | 5976.23      | 5974.30      |
| 12.5 | 5947.73      | 5946.92      | 5946.40      | 5946.04      | 5945.81      | 5945.65      | 5945.57      | 5945.47      | 5945.46      | 5945.28      |
| 15.0 | 5899.72      | 5900.81      | 5902.03      | 5903.56      | 5905.37      | 5906.99      | 5908.91      | 5910.77      | 5912.48      | 5914.01      |
| 17.5 | 5839.90      | 5837.20      | 5834.69      | 5832.17      | 5829.04      | 5827.52      | 5825.31      | 5823.40      | 5821.79      | 5820.19      |
| 20.0 | 5747.22      | 5744.80      | 5742.28      | 5739.77      | 5737.18      | 5733.85      | 5731.78      | 5729.04      | 5726.32      | 5723.78      |
| 22.5 | 5655.58      | 5651.47      | 5644.85      | 5639.33      | 5634.74      | 5630.88      | 5627.72      | 5625.21      | 5623.11      | 5621.42      |
| 25.0 | 5535.28      | 5529.63      | 5525.25      | 5522.08      | 5519.98      | 5518.51      | 5517.71      | 5517.49      | 5517.41      | 5517.57      |
| 27.5 | 5405.50      | 5402.93      | 5404.86      | 5409.18      | 5413.14      | 5416.21      | 5418.58      | 5419.96      | 5420.65      | 5420.97      |
| 30.0 | 5297.19      | 5304.95      | 5311.35      | 5316.77      | 5320.91      | 5323.89      | 5326.02      | 5326.79      | 5326.34      | 5325.65      |
| 32.5 | 5202.40      | 5211.90      | 5219.32      | 5189.15      | 5163.14      | 5140.54      | 5121.47      | 5105.25      | 5091.94      | 5081.82      |
| 35.0 | 5009.12      | 4973.62      | 4942.35      | 4914.65      | 4891.03      | 4870.23      | 4854.63      | 4841.21      | 4830.78      | 4823.07      |
| 37.5 | 4721.42      | 4688.43      | 4658.02      | 4641.04      | 4626.62      | 4612.96      | 4601.12      | 4590.38      | 4581.36      | 4573.50      |
| 40.0 | 4450.95      | 4432.36      | 4415.14      | 4399.05      | 4384.03      | 4370.16      | 4357.03      | 4345.43      | 4334.93      | 4325.53      |
| 42.5 | 4210.76      | 4192.42      | 4174.88      | 4154.00      | 4131.94      | 4113.30      | 4097.90      | 4084.89      | 4074.77      | 4066.97      |
| 45.0 | 3951.45      | 3920.77      | 3894.36      | 3871.96      | 3853.18      | 3837.98      | 3826.38      | 3817.48      | 3810.57      | 3806.17      |
| 47.5 | 3653.97      | 3624.46      | 3605.26      | 3592.69      | 3588.38      | 3584.61      | 3581.74      | 3578.65      | 3575.30      | 3572.63      |
| 50.0 | 3380.81      | 3376.25      | 3372.69      | 3368.33      | 3363.88      | 3359.87      | 3356.09      | 3351.73      | 3347.05      | 3342.72      |
| 52.5 | 3154.64      | 3152.79      | 3150.21      | 3140.51      | 3128.93      | 3120.34      | 3113.97      | 3108.72      | 3103.77      | 3100.69      |
| 55.0 | 2896.62      | 2889.52      | 2882.43      | 2875.16      | 2867.44      | 2862.11      | 2859.68      | 2858.42      | 2857.95      | 2857.47      |
| 57.5 | 2579.97      | 2596.13      | 2605.23      | 2614.09      | 2617.25      | 2619.36      | 2622.35      | 2624.65      | 2625.62      | 2625.37      |
| 60.0 | 2305.24      | 2353.09      | 2378.60      | 2388.73      | 2391.30      | 2393.79      | 2395.77      | 2397.53      | 2396.80      | 2394.79      |
| 62.5 | 2072.97      | 2131.38      | 2149.84      | 2136.77      | 2118.79      | 2104.25      | 2093.77      | 2085.56      | 2076.78      | 2069.15      |
| 65.0 | 1746.67      | 1778.24      | 1789.89      | 1785.13      | 1772.98      | 1759.26      | 1750.64      | 1746.70      | 1740.14      | 1734.55      |
| 67.5 | 1389.67      | 1396.55      | 1436.23      | 1444.79      | 1439.45      | 1429.77      | 1425.56      | 1421.72      | 1414.68      | 1408.26      |
| 70.0 | 1098.00      | 1112.35      | 1132.69      | 1132.52      | 1122.16      | 1110.99      | 1109.17      | 1101.28      | 1091.41      | 1083.40      |
| 72.5 | 823.10       | 824.06       | 823.69       | 811.09       | 794.91       | 780.38       | 774.41       | 770.33       | 760.99       | 752.33       |
| 75.0 | 514.83       | 500.92       | 486.67       | 475.37       | 458.95       | 444.09       | 434.07       | 437.26       | 429.73       | 420.89       |
| 77.5 | 241.98       | 236.10       | 228.44       | 228.40       | 223.89       | 218.54       | 214.59       | 218.24       | 215.32       | 210.71       |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES**

**CANDELA TABULATION - (Cont.)**

|             |       |       |       |       |       |       |       |       |       |      |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| <b>80.0</b> | 83.06 | 72.45 | 61.30 | 52.42 | 42.80 | 33.55 | 25.26 | 18.52 | 12.11 | 0.00 |
| <b>82.5</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |
| <b>85.0</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |
| <b>87.5</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |
| <b>90.0</b> | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |

**Vert. Horizontal Angles**

|             | <u><b>175.0</b></u> | <u><b>177.5</b></u> | <u><b>180.0</b></u> | <u><b>182.5</b></u> | <u><b>185.0</b></u> | <u><b>187.5</b></u> | <u><b>190.0</b></u> | <u><b>192.5</b></u> | <u><b>195.0</b></u> | <u><b>197.5</b></u> |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>0.0</b>  | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             |
| <b>2.5</b>  | 6060.46             | 6060.29             | 6060.18             | 6060.12             | 6060.11             | 6060.16             | 6060.26             | 6060.41             | 6060.61             | 6060.87             |
| <b>5.0</b>  | 6032.79             | 6032.70             | 6032.61             | 6032.38             | 6032.14             | 6031.91             | 6031.68             | 6032.85             | 6033.10             | 6033.54             |
| <b>7.5</b>  | 6003.66             | 6003.15             | 6002.81             | 6002.43             | 6002.21             | 6002.17             | 6002.16             | 6002.32             | 6002.67             | 6003.07             |
| <b>10.0</b> | 5974.01             | 5973.51             | 5973.01             | 5972.23             | 5971.45             | 5970.39             | 5971.04             | 5970.73             | 5970.36             | 5970.29             |
| <b>12.5</b> | 5945.20             | 5944.92             | 5944.83             | 5944.51             | 5944.50             | 5943.90             | 5943.48             | 5942.78             | 5941.96             | 5940.86             |
| <b>15.0</b> | 5914.51             | 5915.80             | 5916.65             | 5916.74             | 5916.45             | 5917.01             | 5916.49             | 5915.81             | 5914.71             | 5913.11             |
| <b>17.5</b> | 5818.86             | 5817.94             | 5817.48             | 5817.27             | 5817.65             | 5818.68             | 5820.43             | 5822.50             | 5825.27             | 5828.80             |
| <b>20.0</b> | 5718.83             | 5719.07             | 5718.31             | 5716.28             | 5713.23             | 5715.72             | 5715.98             | 5716.84             | 5719.01             | 5720.16             |
| <b>22.5</b> | 5620.13             | 5619.66             | 5619.52             | 5619.56             | 5619.70             | 5619.89             | 5620.20             | 5620.57             | 5620.84             | 5620.84             |
| <b>25.0</b> | 5514.80             | 5518.40             | 5520.72             | 5521.62             | 5520.72             | 5525.15             | 5526.39             | 5527.75             | 5528.86             | 5529.34             |
| <b>27.5</b> | 5421.37             | 5421.82             | 5422.18             | 5422.10             | 5422.08             | 5422.36             | 5422.95             | 5423.77             | 5424.70             | 5425.76             |
| <b>30.0</b> | 5321.48             | 5323.71             | 5323.63             | 5320.55             | 5315.79             | 5318.36             | 5317.01             | 5314.73             | 5312.05             | 5309.20             |
| <b>32.5</b> | 5074.60             | 5070.75             | 5069.88             | 5070.99             | 5074.74             | 5081.43             | 5089.99             | 5100.58             | 5112.62             | 5125.05             |
| <b>35.0</b> | 4817.68             | 4812.57             | 4816.13             | 4816.72             | 4824.53             | 4831.98             | 4842.42             | 4855.10             | 4868.69             | 4883.20             |
| <b>37.5</b> | 4567.49             | 4563.67             | 4562.58             | 4563.30             | 4566.90             | 4573.08             | 4583.60             | 4595.48             | 4611.26             | 4627.53             |
| <b>40.0</b> | 4317.82             | 4309.71             | 4309.03             | 4304.23             | 4308.02             | 4312.57             | 4319.90             | 4329.36             | 4340.50             | 4355.00             |
| <b>42.5</b> | 4061.07             | 4057.44             | 4055.96             | 4055.76             | 4057.64             | 4062.58             | 4068.97             | 4076.93             | 4086.50             | 4094.93             |
| <b>45.0</b> | 3803.58             | 3799.47             | 3802.88             | 3802.04             | 3807.86             | 3813.05             | 3821.85             | 3831.55             | 3841.47             | 3852.15             |
| <b>47.5</b> | 3570.39             | 3568.58             | 3567.85             | 3568.00             | 3568.96             | 3571.93             | 3577.68             | 3585.28             | 3594.04             | 3604.57             |
| <b>50.0</b> | 3338.63             | 3332.70             | 3332.82             | 3328.72             | 3330.30             | 3331.26             | 3333.73             | 3337.23             | 3342.20             | 3348.36             |
| <b>52.5</b> | 3098.51             | 3097.64             | 3097.67             | 3098.67             | 3100.26             | 3101.78             | 3103.31             | 3104.82             | 3106.08             | 3105.95             |
| <b>55.0</b> | 2857.85             | 2857.38             | 2862.52             | 2863.91             | 2871.19             | 2873.66             | 2876.13             | 2878.88             | 2881.09             | 2881.82             |
| <b>57.5</b> | 2625.81             | 2626.90             | 2628.76             | 2631.67             | 2633.25             | 2633.41             | 2634.61             | 2636.74             | 2639.03             | 2641.29             |
| <b>60.0</b> | 2385.58             | 2391.93             | 2395.00             | 2394.70             | 2385.91             | 2391.58             | 2389.79             | 2388.24             | 2385.47             | 2384.29             |
| <b>62.5</b> | 2064.53             | 2062.82             | 2063.94             | 2067.72             | 2071.13             | 2073.87             | 2078.34             | 2084.88             | 2088.91             | 2092.94             |
| <b>65.0</b> | 1719.69             | 1727.74             | 1732.87             | 1734.98             | 1733.45             | 1749.44             | 1755.77             | 1763.58             | 1771.91             | 1776.78             |
| <b>67.5</b> | 1404.19             | 1402.81             | 1403.85             | 1406.78             | 1410.77             | 1414.81             | 1421.02             | 1429.95             | 1437.66             | 1444.95             |
| <b>70.0</b> | 1068.76             | 1072.91             | 1074.83             | 1073.40             | 1067.44             | 1079.46             | 1084.87             | 1092.52             | 1095.69             | 1103.04             |
| <b>72.5</b> | 746.90              | 744.22              | 744.39              | 746.04              | 748.04              | 751.45              | 757.12              | 765.26              | 768.89              | 774.21              |
| <b>75.0</b> | 408.53              | 411.40              | 413.94              | 414.60              | 412.35              | 424.30              | 430.54              | 440.84              | 449.05              | 451.38              |
| <b>77.5</b> | 208.01              | 206.64              | 206.97              | 208.25              | 209.95              | 212.57              | 215.92              | 221.40              | 225.67              | 225.24              |
| <b>80.0</b> | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 12.14               | 18.83               | 26.56               | 34.55               |
| <b>82.5</b> | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                |
| <b>85.0</b> | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                |
| <b>87.5</b> | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                |
| <b>90.0</b> | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                |

**Vert. Horizontal Angles**

|             | <u><b>200.0</b></u> | <u><b>202.5</b></u> | <u><b>205.0</b></u> | <u><b>207.5</b></u> | <u><b>210.0</b></u> | <u><b>212.5</b></u> | <u><b>215.0</b></u> | <u><b>217.5</b></u> | <u><b>220.0</b></u> | <u><b>222.5</b></u> |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>0.0</b>  | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             |
| <b>2.5</b>  | 6061.18             | 6061.54             | 6061.99             | 6062.43             | 6062.95             | 6063.52             | 6064.14             | 6064.81             | 6065.53             | 6066.29             |
| <b>5.0</b>  | 6034.10             | 6034.77             | 6035.53             | 6036.39             | 6037.35             | 6038.41             | 6039.57             | 6040.87             | 6042.01             | 6043.31             |
| <b>7.5</b>  | 6003.64             | 6004.44             | 6005.33             | 6006.37             | 6007.66             | 6009.28             | 6010.67             | 6012.45             | 6014.51             | 6017.05             |
| <b>10.0</b> | 5969.95             | 5969.97             | 5970.04             | 5970.23             | 5970.86             | 5971.38             | 5972.34             | 5974.27             | 5975.04             | 5976.91             |
| <b>12.5</b> | 5939.54             | 5937.98             | 5936.25             | 5934.33             | 5932.28             | 5930.01             | 5927.72             | 5924.83             | 5925.89             | 5926.56             |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES**

**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15.0 | 5911.93 | 5909.04 | 5906.47 | 5903.61 | 5900.23 | 5896.84 | 5892.76 | 5889.73 | 5884.24 | 5880.99 |
| 17.5 | 5833.05 | 5837.88 | 5843.70 | 5850.60 | 5858.26 | 5863.18 | 5857.77 | 5851.76 | 5845.60 | 5838.96 |
| 20.0 | 5722.67 | 5726.02 | 5730.35 | 5737.13 | 5742.35 | 5750.18 | 5759.57 | 5770.92 | 5782.87 | 5796.94 |
| 22.5 | 5620.49 | 5619.79 | 5618.84 | 5617.79 | 5621.05 | 5626.72 | 5634.48 | 5643.97 | 5655.36 | 5668.72 |
| 25.0 | 5529.06 | 5528.09 | 5526.54 | 5524.58 | 5522.44 | 5520.14 | 5518.32 | 5514.89 | 5518.69 | 5530.36 |
| 27.5 | 5428.15 | 5428.75 | 5431.41 | 5432.03 | 5428.74 | 5425.04 | 5420.83 | 5416.14 | 5411.10 | 5405.87 |
| 30.0 | 5306.63 | 5305.63 | 5304.54 | 5305.50 | 5308.06 | 5312.34 | 5318.54 | 5318.24 | 5310.77 | 5302.87 |
| 32.5 | 5139.09 | 5155.30 | 5173.53 | 5170.77 | 5169.59 | 5170.21 | 5172.94 | 5180.64 | 5185.48 | 5196.04 |
| 35.0 | 4898.39 | 4915.49 | 4935.17 | 4954.94 | 4976.99 | 5000.78 | 5020.46 | 5021.55 | 5025.10 | 5031.70 |
| 37.5 | 4648.17 | 4671.78 | 4696.82 | 4717.58 | 4739.81 | 4766.25 | 4788.84 | 4815.28 | 4843.50 | 4856.62 |
| 40.0 | 4372.61 | 4393.73 | 4418.70 | 4447.93 | 4481.87 | 4520.77 | 4552.56 | 4579.61 | 4604.01 | 4630.87 |
| 42.5 | 4105.37 | 4116.41 | 4133.56 | 4159.58 | 4190.39 | 4226.17 | 4267.31 | 4313.76 | 4365.92 | 4393.65 |
| 45.0 | 3863.60 | 3874.87 | 3886.77 | 3901.64 | 3914.45 | 3929.44 | 3963.26 | 4006.09 | 4056.32 | 4109.91 |
| 47.5 | 3617.32 | 3632.29 | 3646.53 | 3659.54 | 3673.50 | 3687.86 | 3703.81 | 3718.23 | 3735.62 | 3786.65 |
| 50.0 | 3356.41 | 3368.43 | 3381.52 | 3398.72 | 3419.65 | 3445.37 | 3465.20 | 3477.06 | 3489.41 | 3501.08 |
| 52.5 | 3105.18 | 3105.41 | 3110.51 | 3122.39 | 3136.19 | 3149.88 | 3173.44 | 3206.48 | 3244.97 | 3255.29 |
| 55.0 | 2880.90 | 2881.08 | 2881.43 | 2879.56 | 2871.69 | 2849.32 | 2848.69 | 2878.28 | 2915.19 | 2946.38 |
| 57.5 | 2644.67 | 2651.35 | 2658.86 | 2656.29 | 2646.58 | 2617.34 | 2587.04 | 2583.06 | 2569.52 | 2553.01 |
| 60.0 | 2383.42 | 2386.16 | 2388.34 | 2386.87 | 2374.20 | 2352.91 | 2334.72 | 2329.97 | 2316.86 | 2266.23 |
| 62.5 | 2100.35 | 2108.58 | 2111.66 | 2090.21 | 2036.77 | 2006.00 | 2012.95 | 2036.98 | 2058.02 | 2048.83 |
| 65.0 | 1785.93 | 1796.27 | 1802.55 | 1787.30 | 1731.44 | 1695.57 | 1699.39 | 1713.36 | 1730.38 | 1739.02 |
| 67.5 | 1458.49 | 1475.72 | 1491.58 | 1495.68 | 1461.76 | 1426.51 | 1429.62 | 1436.61 | 1441.15 | 1442.09 |
| 70.0 | 1117.72 | 1133.97 | 1141.37 | 1140.27 | 1129.33 | 1126.05 | 1144.14 | 1166.14 | 1181.58 | 1186.16 |
| 72.5 | 787.80  | 800.15  | 801.48  | 791.34  | 790.06  | 809.66  | 826.72  | 849.93  | 874.52  | 896.83  |
| 75.0 | 466.36  | 482.59  | 494.24  | 490.89  | 504.47  | 523.47  | 536.15  | 553.08  | 570.20  | 576.14  |
| 77.5 | 232.29  | 239.79  | 243.89  | 239.11  | 248.24  | 257.34  | 260.53  | 279.44  | 302.47  | 317.26  |
| 80.0 | 44.44   | 55.10   | 65.18   | 73.26   | 85.50   | 97.80   | 104.46  | 112.95  | 121.48  | 125.64  |
| 82.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 4.47    |
| 85.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 87.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 90.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

**Vert. Horizontal Angles**

|      | <u>225.0</u> | <u>227.5</u> | <u>230.0</u> | <u>232.5</u> | <u>235.0</u> | <u>237.5</u> | <u>240.0</u> | <u>242.5</u> | <u>245.0</u> | <u>247.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      |
| 2.5  | 6067.09      | 6067.94      | 6068.82      | 6069.75      | 6070.73      | 6071.63      | 6072.62      | 6073.64      | 6074.69      | 6075.77      |
| 5.0  | 6044.69      | 6046.14      | 6047.66      | 6049.24      | 6051.10      | 6052.30      | 6053.91      | 6055.57      | 6057.31      | 6059.10      |
| 7.5  | 6018.99      | 6021.52      | 6023.50      | 6025.17      | 6026.69      | 6028.24      | 6029.91      | 6031.69      | 6033.59      | 6035.61      |
| 10.0 | 5979.70      | 5981.56      | 5984.45      | 5987.87      | 5991.51      | 5995.54      | 6000.09      | 6001.72      | 6003.66      | 6004.13      |
| 12.5 | 5928.05      | 5930.04      | 5932.49      | 5935.75      | 5939.40      | 5943.62      | 5948.61      | 5955.34      | 5960.25      | 5964.91      |
| 15.0 | 5874.96      | 5870.37      | 5868.45      | 5871.12      | 5874.45      | 5878.64      | 5883.93      | 5889.84      | 5896.77      | 5904.77      |
| 17.5 | 5832.05      | 5824.88      | 5817.39      | 5809.84      | 5802.13      | 5801.53      | 5809.14      | 5812.96      | 5820.68      | 5829.63      |
| 20.0 | 5788.49      | 5778.16      | 5767.71      | 5756.86      | 5745.90      | 5734.94      | 5724.07      | 5723.69      | 5733.74      | 5741.77      |
| 22.5 | 5683.76      | 5701.07      | 5717.50      | 5701.86      | 5687.13      | 5672.38      | 5657.60      | 5643.20      | 5628.96      | 5611.56      |
| 25.0 | 5544.49      | 5561.21      | 5580.48      | 5602.38      | 5625.95      | 5606.91      | 5587.58      | 5569.26      | 5549.62      | 5531.42      |
| 27.5 | 5402.46      | 5411.07      | 5429.51      | 5451.14      | 5476.25      | 5505.05      | 5514.61      | 5490.11      | 5465.63      | 5441.76      |
| 30.0 | 5294.70      | 5286.21      | 5277.28      | 5287.34      | 5312.10      | 5341.17      | 5374.36      | 5408.16      | 5377.72      | 5347.63      |
| 32.5 | 5188.87      | 5176.47      | 5163.33      | 5150.20      | 5137.52      | 5163.87      | 5197.75      | 5237.13      | 5282.22      | 5249.35      |
| 35.0 | 5042.02      | 5056.74      | 5051.37      | 5034.09      | 5014.67      | 4996.18      | 5006.94      | 5047.37      | 5094.09      | 5147.03      |
| 37.5 | 4862.55      | 4872.94      | 4888.46      | 4909.47      | 4887.84      | 4865.21      | 4843.44      | 4843.17      | 4890.63      | 4945.85      |
| 40.0 | 4660.24      | 4678.85      | 4691.07      | 4709.48      | 4733.86      | 4734.35      | 4705.99      | 4676.52      | 4669.40      | 4725.82      |
| 42.5 | 4419.46      | 4447.17      | 4478.12      | 4500.03      | 4520.66      | 4549.13      | 4567.37      | 4528.00      | 4483.28      | 4470.44      |
| 45.0 | 4172.38      | 4207.46      | 4235.65      | 4263.27      | 4291.34      | 4311.37      | 4339.08      | 4374.37      | 4301.12      | 4214.72      |
| 47.5 | 3844.35      | 3907.96      | 3985.26      | 4001.55      | 4016.06      | 4008.61      | 4000.23      | 4035.49      | 4079.53      | 3961.01      |
| 50.0 | 3495.68      | 3523.37      | 3580.63      | 3664.91      | 3723.54      | 3684.78      | 3614.66      | 3624.67      | 3694.52      | 3723.64      |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES**

**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 52.5 | 3235.98 | 3182.58 | 3145.93 | 3234.84 | 3321.20 | 3399.52 | 3337.36 | 3319.61 | 3356.26 | 3419.85 |
| 55.0 | 2959.11 | 2899.15 | 2861.31 | 2849.66 | 2875.64 | 2962.55 | 3052.14 | 3078.73 | 3081.73 | 3116.77 |
| 57.5 | 2550.16 | 2554.45 | 2579.38 | 2589.67 | 2588.42 | 2589.69 | 2682.30 | 2795.20 | 2842.84 | 2836.12 |
| 60.0 | 2219.86 | 2216.70 | 2246.38 | 2297.39 | 2359.60 | 2357.22 | 2350.22 | 2401.50 | 2523.23 | 2581.02 |
| 62.5 | 2009.05 | 1982.53 | 1945.33 | 1952.21 | 2017.03 | 2091.28 | 2117.19 | 2059.40 | 2067.11 | 2230.40 |
| 65.0 | 1745.21 | 1756.91 | 1720.48 | 1701.22 | 1695.88 | 1716.78 | 1768.86 | 1805.33 | 1750.99 | 1765.94 |
| 67.5 | 1414.06 | 1389.66 | 1411.56 | 1451.00 | 1470.02 | 1433.10 | 1347.00 | 1404.08 | 1486.88 | 1480.33 |
| 70.0 | 1157.87 | 1107.93 | 1097.10 | 1115.10 | 1155.38 | 1187.57 | 1150.93 | 1117.66 | 1121.96 | 1213.01 |
| 72.5 | 906.50  | 891.85  | 883.03  | 876.86  | 845.87  | 804.59  | 849.98  | 905.10  | 896.57  | 824.97  |
| 75.0 | 589.36  | 603.84  | 629.42  | 655.07  | 671.56  | 624.70  | 601.02  | 558.82  | 618.75  | 667.72  |
| 77.5 | 334.08  | 352.82  | 370.09  | 380.27  | 396.21  | 412.77  | 434.66  | 431.76  | 387.45  | 339.67  |
| 80.0 | 135.23  | 140.03  | 150.96  | 174.52  | 188.97  | 205.69  | 213.76  | 226.42  | 244.16  | 255.99  |
| 82.5 | 18.30   | 30.11   | 40.83   | 49.72   | 57.12   | 61.54   | 66.53   | 79.31   | 91.51   | 98.46   |
| 85.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 7.98    | 14.96   | 20.29   |
| 87.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 90.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

**Vert.  
Angles**

**Horizontal Angles**

|      | <u>250.0</u> | <u>252.5</u> | <u>255.0</u> | <u>257.5</u> | <u>260.0</u> | <u>262.5</u> | <u>265.0</u> | <u>267.5</u> | <u>270.0</u> | <u>272.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      |
| 2.5  | 6076.88      | 6078.00      | 6079.15      | 6080.32      | 6081.51      | 6082.71      | 6083.92      | 6085.15      | 6086.38      | 6085.68      |
| 5.0  | 6060.95      | 6062.86      | 6064.83      | 6066.86      | 6068.93      | 6071.06      | 6073.25      | 6075.48      | 6077.76      | 6076.53      |
| 7.5  | 6038.07      | 6039.68      | 6041.85      | 6044.15      | 6046.59      | 6049.17      | 6051.90      | 6054.77      | 6057.80      | 6056.35      |
| 10.0 | 6005.44      | 6006.94      | 6008.64      | 6010.55      | 6012.69      | 6015.07      | 6017.70      | 6020.60      | 6023.79      | 6022.75      |
| 12.5 | 5965.06      | 5965.51      | 5967.39      | 5967.01      | 5968.27      | 5969.93      | 5972.04      | 5974.60      | 5977.64      | 5977.31      |
| 15.0 | 5915.24      | 5916.33      | 5915.34      | 5914.83      | 5914.85      | 5915.42      | 5916.59      | 5918.39      | 5920.86      | 5921.66      |
| 17.5 | 5839.70      | 5851.17      | 5856.89      | 5856.40      | 5852.66      | 5851.64      | 5851.46      | 5852.17      | 5853.84      | 5856.11      |
| 20.0 | 5753.42      | 5767.96      | 5781.62      | 5785.99      | 5782.04      | 5779.10      | 5777.22      | 5776.48      | 5776.96      | 5781.11      |
| 22.5 | 5657.26      | 5669.63      | 5686.98      | 5706.57      | 5702.83      | 5696.81      | 5692.18      | 5689.06      | 5687.55      | 5694.33      |
| 25.0 | 5541.85      | 5558.85      | 5582.31      | 5600.98      | 5614.19      | 5604.78      | 5597.04      | 5591.13      | 5587.19      | 5597.08      |
| 27.5 | 5418.75      | 5434.46      | 5456.53      | 5482.12      | 5513.05      | 5503.00      | 5491.15      | 5481.56      | 5474.45      | 5488.27      |
| 30.0 | 5319.77      | 5295.72      | 5320.52      | 5349.29      | 5382.08      | 5391.31      | 5374.24      | 5359.90      | 5348.55      | 5367.19      |
| 32.5 | 5212.48      | 5176.71      | 5169.16      | 5201.39      | 5238.52      | 5269.43      | 5247.36      | 5228.65      | 5213.57      | 5236.77      |
| 35.0 | 5102.13      | 5058.96      | 5017.22      | 5043.98      | 5082.19      | 5129.83      | 5112.21      | 5087.92      | 5067.79      | 5096.80      |
| 37.5 | 4988.31      | 4935.07      | 4884.75      | 4862.92      | 4910.47      | 4964.85      | 4965.74      | 4934.75      | 4908.83      | 4944.59      |
| 40.0 | 4792.01      | 4805.01      | 4743.54      | 4684.82      | 4721.70      | 4783.59      | 4808.75      | 4769.74      | 4736.48      | 4780.30      |
| 42.5 | 4540.63      | 4634.37      | 4592.89      | 4506.06      | 4481.34      | 4569.92      | 4632.40      | 4563.95      | 4502.03      | 4575.55      |
| 45.0 | 4217.11      | 4330.03      | 4420.15      | 4254.66      | 4114.69      | 4238.42      | 4381.47      | 4258.24      | 4147.86      | 4272.19      |
| 47.5 | 3848.37      | 3925.23      | 4051.31      | 3974.81      | 3821.33      | 3873.35      | 4004.02      | 3927.43      | 3826.25      | 3940.61      |
| 50.0 | 3618.33      | 3550.30      | 3664.59      | 3730.46      | 3610.42      | 3587.89      | 3696.58      | 3670.42      | 3590.11      | 3681.86      |
| 52.5 | 3425.87      | 3344.72      | 3362.40      | 3484.44      | 3426.64      | 3333.61      | 3448.51      | 3455.59      | 3370.14      | 3466.88      |
| 55.0 | 3190.48      | 3166.79      | 3076.89      | 3188.59      | 3243.78      | 3106.22      | 3196.10      | 3238.74      | 3135.16      | 3250.42      |
| 57.5 | 2881.50      | 2975.03      | 2883.32      | 2862.75      | 3033.02      | 2895.67      | 2919.68      | 3007.40      | 2883.67      | 3021.10      |
| 60.0 | 2562.51      | 2626.89      | 2687.74      | 2518.89      | 2672.69      | 2659.75      | 2575.21      | 2753.17      | 2563.68      | 2769.75      |
| 62.5 | 2277.63      | 2156.53      | 2316.16      | 2253.37      | 2223.78      | 2376.84      | 2153.89      | 2417.68      | 2155.69      | 2437.83      |
| 65.0 | 1928.75      | 1900.27      | 1884.57      | 2025.75      | 1835.79      | 2025.90      | 1861.31      | 2040.05      | 1876.16      | 2056.43      |
| 67.5 | 1446.01      | 1604.59      | 1592.67      | 1634.62      | 1644.25      | 1654.29      | 1639.80      | 1739.30      | 1582.83      | 1752.29      |
| 70.0 | 1212.83      | 1157.55      | 1353.26      | 1229.77      | 1407.52      | 1210.78      | 1391.73      | 1372.44      | 1216.89      | 1388.31      |
| 72.5 | 893.92       | 933.14       | 879.64       | 1044.59      | 965.41       | 1002.64      | 1110.58      | 1004.12      | 936.24       | 1020.10      |
| 75.0 | 615.12       | 628.64       | 687.23       | 641.56       | 725.73       | 782.49       | 715.50       | 661.17       | 646.12       | 671.55       |
| 77.5 | 411.14       | 425.45       | 379.31       | 460.74       | 435.90       | 401.73       | 430.99       | 426.42       | 402.95       | 437.32       |
| 80.0 | 221.47       | 188.39       | 255.08       | 206.21       | 269.25       | 280.90       | 298.70       | 310.20       | 215.71       | 321.02       |
| 82.5 | 107.94       | 119.94       | 101.30       | 88.49        | 104.67       | 133.54       | 131.66       | 115.36       | 86.58        | 124.28       |
| 85.0 | 24.36        | 33.20        | 36.35        | 40.05        | 33.22        | 42.06        | 43.50        | 48.44        | 26.25        | 55.59        |
| 87.5 | 0.00         | 0.00         | 0.00         | 5.48         | 14.00        | 13.19        | 14.47        | 16.26        | 10.68        | 23.42        |

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

|                     |                          |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|---------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>90.0</b>         | 0.00                     | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 10.89               | 0.00                |
| <b>Vert. Angles</b> | <b>Horizontal Angles</b> |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     | <b><u>275.0</u></b>      | <b><u>277.5</u></b> | <b><u>280.0</u></b> | <b><u>282.5</u></b> | <b><u>285.0</u></b> | <b><u>287.5</u></b> | <b><u>290.0</u></b> | <b><u>292.5</u></b> | <b><u>295.0</u></b> | <b><u>297.5</u></b> |
| <b>0.0</b>          | 6087.75                  | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             |
| <b>2.5</b>          | 6084.98                  | 6084.30             | 6083.62             | 6082.95             | 6082.30             | 6081.66             | 6081.03             | 6080.42             | 6079.83             | 6079.26             |
| <b>5.0</b>          | 6075.35                  | 6074.21             | 6073.12             | 6072.08             | 6071.07             | 6070.12             | 6069.20             | 6068.33             | 6067.50             | 6066.71             |
| <b>7.5</b>          | 6055.05                  | 6053.90             | 6052.87             | 6051.98             | 6051.21             | 6050.55             | 6050.42             | 6049.43             | 6048.85             | 6048.36             |
| <b>10.0</b>         | 6021.99                  | 6021.48             | 6021.22             | 6021.17             | 6021.33             | 6021.67             | 6022.17             | 6022.83             | 6024.27             | 6024.22             |
| <b>12.5</b>         | 5977.46                  | 5978.05             | 5979.06             | 5980.46             | 5983.45             | 5984.16             | 5986.26             | 5988.60             | 5986.39             | 5983.89             |
| <b>15.0</b>         | 5923.13                  | 5925.21             | 5927.87             | 5931.07             | 5934.75             | 5938.87             | 5940.88             | 5933.44             | 5928.41             | 5924.37             |
| <b>17.5</b>         | 5859.31                  | 5863.38             | 5868.25             | 5875.74             | 5879.97             | 5878.00             | 5870.29             | 5863.88             | 5858.48             | 5854.14             |
| <b>20.0</b>         | 5786.46                  | 5792.92             | 5800.42             | 5808.88             | 5808.98             | 5799.74             | 5789.52             | 5782.08             | 5778.15             | 5772.15             |
| <b>22.5</b>         | 5702.71                  | 5712.58             | 5723.83             | 5732.74             | 5718.11             | 5705.66             | 5698.15             | 5687.30             | 5681.45             | 5698.48             |
| <b>25.0</b>         | 5608.91                  | 5622.51             | 5637.70             | 5630.34             | 5617.52             | 5599.82             | 5588.31             | 5583.05             | 5606.21             | 5630.95             |
| <b>27.5</b>         | 5504.57                  | 5523.10             | 5539.79             | 5515.19             | 5495.92             | 5480.17             | 5469.97             | 5499.84             | 5529.24             | 5558.75             |
| <b>30.0</b>         | 5388.81                  | 5413.13             | 5411.13             | 5385.46             | 5363.64             | 5345.58             | 5376.52             | 5411.45             | 5448.53             | 5485.25             |
| <b>32.5</b>         | 5263.56                  | 5293.66             | 5270.65             | 5241.34             | 5216.87             | 5231.95             | 5274.89             | 5318.78             | 5362.43             | 5321.31             |
| <b>35.0</b>         | 5129.94                  | 5156.37             | 5117.63             | 5088.13             | 5069.71             | 5119.50             | 5170.75             | 5223.50             | 5178.13             | 5139.19             |
| <b>37.5</b>         | 4985.39                  | 4994.16             | 4949.13             | 4910.92             | 4942.23             | 5001.48             | 5063.01             | 5029.00             | 4981.89             | 4942.25             |
| <b>40.0</b>         | 4829.83                  | 4814.96             | 4763.14             | 4736.30             | 4805.53             | 4877.36             | 4874.62             | 4817.13             | 4768.86             | 4784.22             |
| <b>42.5</b>         | 4655.40                  | 4605.84             | 4529.96             | 4564.19             | 4660.05             | 4713.06             | 4634.63             | 4576.65             | 4594.70             | 4644.76             |
| <b>45.0</b>         | 4408.49                  | 4277.83             | 4166.87             | 4320.80             | 4495.81             | 4418.88             | 4323.70             | 4336.76             | 4429.82             | 4503.65             |
| <b>47.5</b>         | 4029.95                  | 3909.00             | 3870.10             | 4043.34             | 4134.92             | 4015.93             | 3954.38             | 4094.90             | 4232.96             | 4200.00             |
| <b>50.0</b>         | 3719.11                  | 3620.06             | 3655.77             | 3794.11             | 3740.36             | 3635.05             | 3720.67             | 3855.46             | 3840.38             | 3787.91             |
| <b>52.5</b>         | 3470.54                  | 3365.56             | 3471.32             | 3542.55             | 3434.19             | 3431.09             | 3528.25             | 3535.30             | 3481.72             | 3465.09             |
| <b>55.0</b>         | 3219.92                  | 3141.71             | 3289.94             | 3248.60             | 3151.23             | 3259.42             | 3299.11             | 3238.45             | 3219.78             | 3239.50             |
| <b>57.5</b>         | 2948.27                  | 2937.11             | 3084.66             | 2930.57             | 2965.68             | 3074.10             | 2994.26             | 2968.12             | 2999.54             | 2972.64             |
| <b>60.0</b>         | 2609.89                  | 2708.50             | 2736.71             | 2601.83             | 2779.33             | 2732.37             | 2684.63             | 2734.39             | 2702.12             | 2600.58             |
| <b>62.5</b>         | 2189.37                  | 2433.91             | 2293.12             | 2345.68             | 2423.49             | 2286.65             | 2414.94             | 2393.16             | 2256.79             | 2285.24             |
| <b>65.0</b>         | 1888.65                  | 2081.81             | 1897.79             | 2114.15             | 1979.89             | 2029.74             | 2074.33             | 1924.02             | 1949.94             | 2061.22             |
| <b>67.5</b>         | 1665.35                  | 1698.18             | 1708.04             | 1717.94             | 1695.98             | 1741.58             | 1602.68             | 1652.12             | 1680.14             | 1614.35             |
| <b>70.0</b>         | 1421.21                  | 1255.40             | 1478.01             | 1318.93             | 1462.50             | 1278.75             | 1385.29             | 1390.54             | 1296.10             | 1297.57             |
| <b>72.5</b>         | 1148.04                  | 1050.54             | 1025.10             | 1137.41             | 982.50              | 1066.00             | 1049.96             | 985.34              | 1064.74             | 1073.97             |
| <b>75.0</b>         | 742.38                   | 831.84              | 788.70              | 714.84              | 795.27              | 734.95              | 730.12              | 816.44              | 769.23              | 721.46              |
| <b>77.5</b>         | 455.17                   | 439.70              | 487.00              | 537.61              | 454.58              | 515.86              | 508.24              | 448.86              | 503.91              | 563.51              |
| <b>80.0</b>         | 320.95                   | 314.28              | 315.69              | 251.67              | 320.85              | 252.36              | 292.80              | 340.93              | 329.89              | 316.15              |
| <b>82.5</b>         | 148.74                   | 159.21              | 133.09              | 121.68              | 141.98              | 164.94              | 149.77              | 143.42              | 145.98              | 142.47              |
| <b>85.0</b>         | 56.18                    | 55.01               | 49.72               | 59.47               | 53.34               | 50.72               | 46.80               | 40.39               | 30.37               | 16.48               |
| <b>87.5</b>         | 22.91                    | 22.91               | 22.13               | 8.43                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                |
| <b>90.0</b>         | 0.00                     | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                |

|                     |                          |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|---------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>Vert. Angles</b> | <b>Horizontal Angles</b> |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     | <b><u>300.0</u></b>      | <b><u>302.5</u></b> | <b><u>305.0</u></b> | <b><u>307.5</u></b> | <b><u>310.0</u></b> | <b><u>312.5</u></b> | <b><u>315.0</u></b> | <b><u>317.5</u></b> | <b><u>320.0</u></b> | <b><u>322.5</u></b> |
| <b>0.0</b>          | 6087.75                  | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             | 6087.75             |
| <b>2.5</b>          | 6078.71                  | 6078.17             | 6077.72             | 6077.16             | 6076.66             | 6076.17             | 6075.72             | 6075.28             | 6074.88             | 6074.50             |
| <b>5.0</b>          | 6065.97                  | 6065.26             | 6064.94             | 6063.93             | 6063.17             | 6062.45             | 6061.77             | 6061.14             | 6060.54             | 6060.07             |
| <b>7.5</b>          | 6047.96                  | 6047.64             | 6047.39             | 6047.14             | 6046.71             | 6046.79             | 6044.55             | 6043.70             | 6042.19             | 6041.11             |
| <b>10.0</b>         | 6024.91                  | 6021.67             | 6019.39             | 6017.45             | 6015.67             | 6014.33             | 6013.95             | 6012.59             | 6012.06             | 6012.53             |
| <b>12.5</b>         | 5979.52                  | 5976.81             | 5974.80             | 5973.28             | 5972.05             | 5971.54             | 5971.44             | 5971.75             | 5972.78             | 5973.68             |
| <b>15.0</b>         | 5921.27                  | 5918.73             | 5917.22             | 5916.49             | 5916.34             | 5920.66             | 5927.46             | 5935.57             | 5940.75             | 5948.02             |
| <b>17.5</b>         | 5853.45                  | 5848.97             | 5852.47             | 5863.04             | 5873.47             | 5883.75             | 5893.56             | 5902.97             | 5911.93             | 5920.25             |
| <b>20.0</b>         | 5776.37                  | 5790.61             | 5804.69             | 5818.61             | 5832.39             | 5845.83             | 5859.16             | 5871.47             | 5859.75             | 5850.83             |
| <b>22.5</b>         | 5717.24                  | 5736.16             | 5754.73             | 5772.88             | 5791.64             | 5778.70             | 5765.21             | 5753.87             | 5744.04             | 5736.04             |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES**

**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 25.0 | 5654.41 | 5678.64 | 5702.22 | 5683.36 | 5666.07 | 5651.02 | 5638.38 | 5628.29 | 5620.39 | 5619.73 |
| 27.5 | 5588.33 | 5584.47 | 5561.39 | 5541.44 | 5524.90 | 5511.66 | 5507.90 | 5515.66 | 5525.02 | 5533.74 |
| 30.0 | 5457.63 | 5430.26 | 5407.06 | 5387.84 | 5382.64 | 5396.73 | 5410.74 | 5424.08 | 5436.69 | 5448.33 |
| 32.5 | 5289.03 | 5261.82 | 5243.16 | 5261.09 | 5279.73 | 5297.91 | 5315.82 | 5328.65 | 5322.86 | 5322.83 |
| 35.0 | 5106.54 | 5103.17 | 5128.57 | 5154.96 | 5178.78 | 5189.43 | 5179.93 | 5175.03 | 5173.50 | 5174.95 |
| 37.5 | 4951.22 | 4981.74 | 5012.11 | 5042.69 | 5026.59 | 5017.36 | 5012.67 | 5012.35 | 5006.35 | 4987.50 |
| 40.0 | 4822.15 | 4859.73 | 4867.75 | 4850.98 | 4840.20 | 4835.15 | 4825.39 | 4806.90 | 4790.68 | 4776.30 |
| 42.5 | 4691.79 | 4681.84 | 4661.48 | 4648.93 | 4638.45 | 4622.06 | 4606.64 | 4592.15 | 4582.49 | 4533.78 |
| 45.0 | 4479.12 | 4456.81 | 4442.04 | 4428.82 | 4416.08 | 4403.34 | 4381.45 | 4330.12 | 4287.61 | 4248.20 |
| 47.5 | 4178.41 | 4191.21 | 4200.91 | 4200.00 | 4198.60 | 4130.11 | 4075.61 | 4028.38 | 3988.82 | 3983.25 |
| 50.0 | 3806.72 | 3892.43 | 3935.78 | 3894.21 | 3831.48 | 3792.06 | 3764.00 | 3766.27 | 3766.36 | 3766.53 |
| 52.5 | 3530.10 | 3623.71 | 3551.90 | 3478.07 | 3420.28 | 3485.50 | 3535.16 | 3546.56 | 3549.55 | 3514.46 |
| 55.0 | 3249.38 | 3183.20 | 3114.51 | 3109.32 | 3157.38 | 3240.35 | 3297.31 | 3257.63 | 3218.32 | 3188.10 |
| 57.5 | 2879.44 | 2806.93 | 2834.18 | 2859.79 | 2881.61 | 2880.12 | 2884.91 | 2885.83 | 2885.44 | 2899.06 |
| 60.0 | 2566.60 | 2598.51 | 2626.45 | 2573.53 | 2533.11 | 2503.99 | 2522.40 | 2588.43 | 2631.70 | 2653.14 |
| 62.5 | 2356.98 | 2343.24 | 2270.10 | 2215.04 | 2232.29 | 2267.77 | 2304.45 | 2359.95 | 2361.09 | 2345.41 |
| 65.0 | 2018.38 | 1956.33 | 1935.07 | 1964.55 | 2019.66 | 2045.59 | 2034.29 | 2030.71 | 2020.76 | 2007.64 |
| 67.5 | 1581.77 | 1668.30 | 1702.48 | 1699.18 | 1689.10 | 1697.55 | 1716.98 | 1718.72 | 1718.94 | 1722.50 |
| 70.0 | 1377.68 | 1413.33 | 1374.38 | 1335.86 | 1329.11 | 1389.92 | 1440.23 | 1447.30 | 1449.36 | 1442.89 |
| 72.5 | 1036.09 | 1013.42 | 1056.52 | 1078.30 | 1102.31 | 1159.41 | 1159.06 | 1137.37 | 1117.10 | 1105.34 |
| 75.0 | 754.35  | 806.21  | 850.89  | 831.85  | 812.42  | 806.06  | 811.74  | 802.41  | 791.64  | 793.17  |
| 77.5 | 562.43  | 551.94  | 540.92  | 523.58  | 520.93  | 517.54  | 524.32  | 520.22  | 513.15  | 515.02  |
| 80.0 | 308.66  | 303.97  | 300.02  | 296.93  | 285.53  | 278.94  | 275.00  | 256.70  | 241.66  | 230.73  |
| 82.5 | 134.18  | 125.98  | 113.43  | 99.77   | 81.81   | 60.32   | 36.98   | 9.17    | 0.00    | 0.00    |
| 85.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 87.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 90.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

**Vert. Angles**      **Horizontal Angles**

|      | <u>325.0</u> | <u>327.5</u> | <u>330.0</u> | <u>332.5</u> | <u>335.0</u> | <u>337.5</u> | <u>340.0</u> | <u>342.5</u> | <u>345.0</u> | <u>347.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      |
| 2.5  | 6074.16      | 6073.84      | 6073.55      | 6073.29      | 6073.10      | 6072.86      | 6072.70      | 6072.58      | 6072.48      | 6072.41      |
| 5.0  | 6059.41      | 6058.87      | 6058.38      | 6057.95      | 6057.59      | 6057.28      | 6057.03      | 6056.85      | 6056.73      | 6056.79      |
| 7.5  | 6040.26      | 6039.74      | 6038.95      | 6038.44      | 6038.13      | 6037.90      | 6037.70      | 6037.67      | 6037.75      | 6037.81      |
| 10.0 | 6011.81      | 6011.97      | 6012.49      | 6012.85      | 6013.58      | 6014.37      | 6015.16      | 6016.22      | 6016.90      | 6017.80      |
| 12.5 | 5977.51      | 5981.08      | 5984.54      | 5987.76      | 5990.78      | 5993.55      | 5996.07      | 5998.28      | 6000.22      | 6001.78      |
| 15.0 | 5952.74      | 5958.34      | 5963.14      | 5967.82      | 5971.96      | 5975.77      | 5979.88      | 5982.10      | 5984.65      | 5986.62      |
| 17.5 | 5928.26      | 5935.35      | 5932.32      | 5926.52      | 5921.41      | 5917.28      | 5914.05      | 5911.38      | 5909.27      | 5907.83      |
| 20.0 | 5842.35      | 5835.67      | 5830.30      | 5827.18      | 5822.36      | 5819.78      | 5818.04      | 5817.08      | 5817.52      | 5816.91      |
| 22.5 | 5729.83      | 5725.25      | 5722.58      | 5721.87      | 5725.05      | 5727.91      | 5730.43      | 5732.63      | 5734.60      | 5736.40      |
| 25.0 | 5626.30      | 5631.57      | 5637.17      | 5642.18      | 5646.51      | 5650.12      | 5653.13      | 5655.65      | 5657.67      | 5659.26      |
| 27.5 | 5541.85      | 5549.60      | 5556.91      | 5563.46      | 5565.43      | 5564.95      | 5566.37      | 5566.01      | 5567.26      | 5568.88      |
| 30.0 | 5452.21      | 5449.72      | 5449.17      | 5450.14      | 5452.44      | 5456.38      | 5459.75      | 5464.05      | 5468.51      | 5473.19      |
| 32.5 | 5319.38      | 5320.68      | 5323.95      | 5328.55      | 5334.81      | 5322.45      | 5311.28      | 5301.21      | 5292.16      | 5284.00      |
| 35.0 | 5178.98      | 5166.83      | 5150.86      | 5135.76      | 5122.44      | 5108.92      | 5097.15      | 5086.17      | 5075.68      | 5066.67      |
| 37.5 | 4970.77      | 4957.56      | 4939.21      | 4924.08      | 4910.10      | 4891.53      | 4873.53      | 4857.34      | 4845.13      | 4833.62      |
| 40.0 | 4759.32      | 4736.91      | 4706.54      | 4680.15      | 4657.70      | 4638.90      | 4623.64      | 4611.38      | 4601.40      | 4593.99      |
| 42.5 | 4497.53      | 4466.21      | 4439.40      | 4416.85      | 4398.56      | 4387.64      | 4382.53      | 4378.05      | 4374.81      | 4369.51      |
| 45.0 | 4216.22      | 4193.29      | 4188.51      | 4185.03      | 4178.20      | 4173.02      | 4167.99      | 4162.70      | 4157.30      | 4152.06      |
| 47.5 | 3981.39      | 3977.79      | 3974.01      | 3969.60      | 3965.20      | 3955.55      | 3943.41      | 3933.57      | 3925.62      | 3918.91      |
| 50.0 | 3767.81      | 3760.51      | 3739.88      | 3722.67      | 3709.18      | 3699.62      | 3690.83      | 3685.29      | 3681.61      | 3678.75      |
| 52.5 | 3494.86      | 3477.59      | 3464.27      | 3453.24      | 3444.45      | 3443.76      | 3448.33      | 3451.66      | 3454.15      | 3454.74      |
| 55.0 | 3181.46      | 3195.30      | 3210.31      | 3218.61      | 3224.02      | 3229.05      | 3233.72      | 3236.93      | 3238.65      | 3237.46      |
| 57.5 | 2937.25      | 2977.48      | 2995.59      | 3004.41      | 3009.89      | 3007.99      | 3006.32      | 3005.66      | 3005.47      | 3004.36      |
| 60.0 | 2705.80      | 2737.56      | 2746.72      | 2748.43      | 2747.86      | 2748.22      | 2750.87      | 2757.63      | 2760.53      | 2764.89      |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES**

**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 62.5 | 2352.01 | 2392.19 | 2449.26 | 2474.05 | 2479.98 | 2473.90 | 2470.74 | 2469.20 | 2465.92 | 2462.70 |
| 65.0 | 2010.80 | 2061.49 | 2139.34 | 2163.38 | 2159.63 | 2152.75 | 2155.38 | 2152.82 | 2147.02 | 2140.07 |
| 67.5 | 1733.69 | 1785.51 | 1844.20 | 1851.60 | 1835.79 | 1820.53 | 1815.92 | 1816.85 | 1811.87 | 1803.96 |
| 70.0 | 1433.28 | 1449.53 | 1482.20 | 1489.41 | 1477.89 | 1465.22 | 1455.17 | 1463.75 | 1470.10 | 1463.61 |
| 72.5 | 1093.23 | 1084.20 | 1093.52 | 1130.78 | 1129.72 | 1120.37 | 1118.27 | 1133.85 | 1140.34 | 1135.66 |
| 75.0 | 788.91  | 782.03  | 796.01  | 811.79  | 805.71  | 793.03  | 796.47  | 819.77  | 817.28  | 810.99  |
| 77.5 | 505.73  | 491.08  | 495.66  | 489.58  | 470.97  | 453.21  | 446.22  | 454.37  | 441.02  | 427.92  |
| 80.0 | 209.54  | 186.25  | 169.49  | 150.44  | 126.57  | 104.20  | 85.02   | 69.52   | 51.99   | 36.39   |
| 82.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 85.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 87.5 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 90.0 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

**Vert. Horizontal Angles**

|      | <u>350.0</u> | <u>352.5</u> | <u>355.0</u> | <u>357.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 6087.75      | 6087.75      | 6087.75      | 6087.75      | 6087.75      |
| 2.5  | 6072.37      | 6072.37      | 6072.39      | 6072.44      | 6072.53      |
| 5.0  | 6056.69      | 6056.75      | 6056.87      | 6057.06      | 6057.30      |
| 7.5  | 6038.01      | 6038.31      | 6038.60      | 6039.00      | 6039.50      |
| 10.0 | 6018.56      | 6019.31      | 6020.12      | 6020.84      | 6021.70      |
| 12.5 | 6003.14      | 6004.12      | 6005.22      | 6005.60      | 6006.21      |
| 15.0 | 5988.16      | 5989.47      | 5990.17      | 5990.56      | 5990.72      |
| 17.5 | 5906.99      | 5906.36      | 5906.20      | 5906.49      | 5907.20      |
| 20.0 | 5817.63      | 5818.75      | 5820.15      | 5821.78      | 5823.67      |
| 22.5 | 5737.96      | 5739.23      | 5740.28      | 5741.11      | 5741.78      |
| 25.0 | 5660.41      | 5660.91      | 5660.98      | 5660.77      | 5659.89      |
| 27.5 | 5570.74      | 5572.57      | 5574.33      | 5575.78      | 5576.78      |
| 30.0 | 5478.07      | 5482.49      | 5486.81      | 5490.56      | 5493.67      |
| 32.5 | 5277.58      | 5273.05      | 5269.52      | 5267.97      | 5268.10      |
| 35.0 | 5058.83      | 5052.55      | 5047.65      | 5044.31      | 5042.53      |
| 37.5 | 4826.34      | 4820.00      | 4816.87      | 4815.05      | 4815.57      |
| 40.0 | 4588.45      | 4585.51      | 4584.60      | 4585.50      | 4588.60      |
| 42.5 | 4366.01      | 4364.10      | 4362.07      | 4362.13      | 4363.62      |
| 45.0 | 4147.91      | 4143.49      | 4140.38      | 4138.98      | 4138.63      |
| 47.5 | 3913.89      | 3910.55      | 3908.66      | 3908.65      | 3910.29      |
| 50.0 | 3676.63      | 3675.82      | 3676.22      | 3678.11      | 3681.95      |
| 52.5 | 3454.17      | 3453.36      | 3453.06      | 3453.99      | 3456.33      |
| 55.0 | 3235.32      | 3232.58      | 3230.88      | 3230.13      | 3230.70      |
| 57.5 | 3002.46      | 3000.72      | 2999.51      | 2999.96      | 3002.21      |
| 60.0 | 2766.44      | 2767.44      | 2768.07      | 2769.81      | 2773.73      |
| 62.5 | 2455.59      | 2449.35      | 2444.45      | 2442.39      | 2444.03      |
| 65.0 | 2132.15      | 2123.69      | 2117.35      | 2114.12      | 2114.32      |
| 67.5 | 1796.40      | 1789.58      | 1784.26      | 1781.63      | 1782.19      |
| 70.0 | 1458.96      | 1454.82      | 1450.87      | 1449.10      | 1450.05      |
| 72.5 | 1131.18      | 1126.19      | 1122.09      | 1119.37      | 1119.77      |
| 75.0 | 804.93       | 798.35       | 793.55       | 789.67       | 789.49       |
| 77.5 | 417.09       | 407.39       | 400.45       | 395.74       | 394.75       |
| 80.0 | 23.45        | 13.22        | 5.89         | 1.47         | 0.00         |
| 82.5 | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         |
| 85.0 | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         |
| 87.5 | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         |
| 90.0 | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp  | %Fixt  |
|---------|----------|--------|--------|
| 0-20    | 2250.1   | 13.50  | 13.50  |
| 0-30    | 4833.51  | 29.10  | 29.10  |
| 0-40    | 7994.94  | 48.10  | 48.10  |
| 0-60    | 13964.59 | 84.10  | 84.10  |
| 0-80    | 16572.12 | 99.80  | 99.80  |
| 0-90    | 16610.76 | 100.00 | 100.00 |
| 10-90   | 16034.13 | 96.50  | 96.50  |
| 20-40   | 5744.84  | 34.60  | 34.60  |
| 20-50   | 8954.56  | 53.90  | 53.90  |
| 40-70   | 7856.58  | 47.30  | 47.30  |
| 60-80   | 2607.54  | 15.70  | 15.70  |
| 70-80   | 720.60   | 4.30   | 4.30   |
| 80-90   | 38.64    | 0.20   | 0.20   |
| 90-110  | 0.00     | 0.00   | 0.00   |
| 90-120  | 0.00     | 0.00   | 0.00   |
| 90-130  | 0.00     | 0.00   | 0.00   |
| 90-150  | 0.00     | 0.00   | 0.00   |
| 90-180  | 0.00     | 0.00   | 0.00   |
| 110-180 | 0.00     | 0.00   | 0.00   |
| 0-180   | 16610.76 | 100.00 | 100.00 |

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 576.63  |
| 10-20   | 1673.46 |
| 20-30   | 2583.41 |
| 30-40   | 3161.43 |
| 40-50   | 3209.72 |
| 50-60   | 2759.93 |
| 60-70   | 1886.93 |
| 70-80   | 720.60  |
| 80-90   | 38.64   |
| 90-100  | 0.00    |
| 100-110 | 0.00    |
| 110-120 | 0.00    |
| 120-130 | 0.00    |
| 130-140 | 0.00    |
| 140-150 | 0.00    |
| 150-160 | 0.00    |
| 160-170 | 0.00    |
| 170-180 | 0.00    |

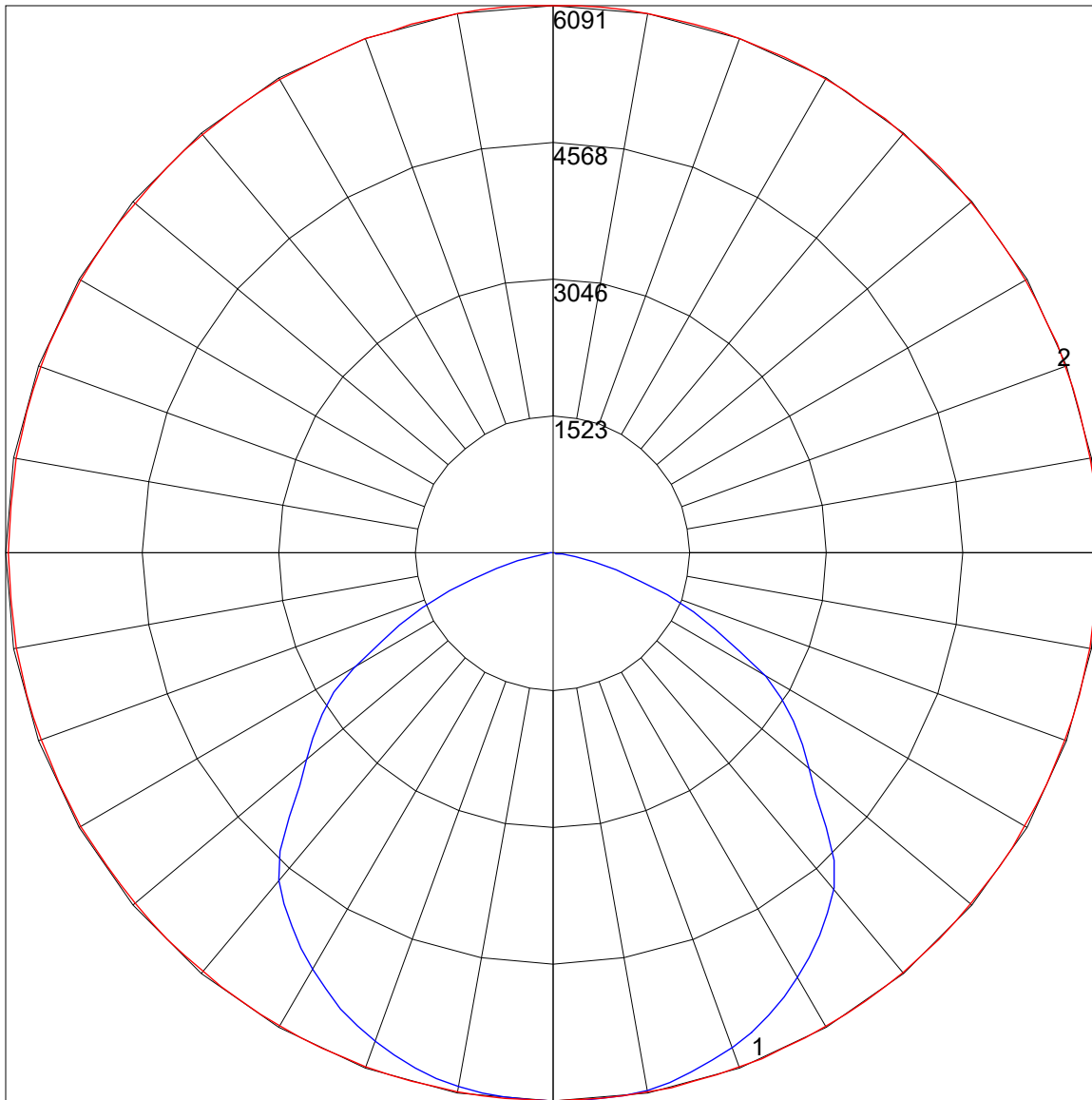
IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : HZCAS35LHTMO5K.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0   |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |
| 2  | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |
| 3  | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 75  | 69  | 65  | 72  | 68  | 64  | 62  |
| 4  | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |
| 5  | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 46  |
| 6  | 72  | 59  | 50  | 44  | 70  | 58  | 49  | 43  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 40  |
| 7  | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 36  |
| 8  | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |
| 9  | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 28  |
| 10 | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |

POLAR GRAPH



Maximum Candela = 6091.23 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)