



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBRMSR-LED175DMV40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Dongguan New Testing Centre Co., Ltd

[TESTDATE] 20 May 2019

[ISSUEDATE] 2019-05-20 09:16:36

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

[MANUFAC] Mobern Lighting Co.

[LUMCAT] HBRMSR-LED175DMV40

[MORE] MHB04

[LUMINAIRE] LED

[BALLAST] 120-277Vac,50/60Hz

[OTHER]

| [OTHER] | Gamma(deg) | Fz(lm)  | Ft(lm)   | %Lum   | %Lamp  |
|---------|------------|---------|----------|--------|--------|
| [OTHER] | 0- 10      | 1022.59 | 1022.59  | 3.99   | 3.99   |
| [OTHER] | 10- 20     | 3059.30 | 4081.89  | 15.92  | 15.92  |
| [OTHER] | 20- 30     | 5043.81 | 9125.70  | 35.60  | 35.60  |
| [OTHER] | 30- 40     | 6659.48 | 15785.19 | 61.58  | 61.58  |
| [OTHER] | 40- 50     | 6388.29 | 22173.48 | 86.50  | 86.50  |
| [OTHER] | 50- 60     | 2855.85 | 25029.33 | 97.64  | 97.64  |
| [OTHER] | 60- 70     | 374.85  | 25404.17 | 99.10  | 99.10  |
| [OTHER] | 70- 80     | 163.87  | 25568.04 | 99.74  | 99.74  |
| [OTHER] | 80- 90     | 48.25   | 25616.29 | 99.92  | 99.92  |
| [OTHER] | 90-100     | 0.24    | 25616.53 | 99.93  | 99.93  |
| [OTHER] | 100-110    | 0.75    | 25617.28 | 99.93  | 99.93  |
| [OTHER] | 110-120    | 1.53    | 25618.82 | 99.93  | 99.93  |
| [OTHER] | 120-130    | 2.53    | 25621.35 | 99.94  | 99.94  |
| [OTHER] | 130-140    | 3.47    | 25624.83 | 99.96  | 99.96  |
| [OTHER] | 140-150    | 3.89    | 25628.72 | 99.97  | 99.97  |
| [OTHER] | 150-160    | 3.55    | 25632.27 | 99.99  | 99.99  |
| [OTHER] | 160-170    | 2.41    | 25634.69 | 100.00 | 100.00 |
| [OTHER] | 170-180    | 0.84    | 25635.53 | 100.00 | 100.00 |
| [OTHER] |            |         |          |        |        |

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**CHARACTERISTICS**

|                                 |                   |
|---------------------------------|-------------------|
| Lumens Per Lamp                 | 25636 (1 lamp)    |
| Total Lamp Lumens               | 25636             |
| Luminaire Lumens                | 25636             |
| Total Luminaire Efficiency      | 100 %             |
| Luminaire Efficacy Rating (LER) | 146               |
| Total Luminaire Watts           | 175.446           |
| Ballast Factor                  | 1.00              |
| CIE Type                        | Direct            |
| Spacing Criterion (0-180)       | 1.52              |
| Spacing Criterion (90-270)      | 1.52              |
| Spacing Criterion (Diagonal)    | 1.48              |
| Basic Luminous Shape            | Circular          |
| Luminous Length (0-180)         | 0.35 m (Diameter) |
| Luminous Width (90-270)         | 0.35 m (Diameter) |
| 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                  | 123465           | 121862            | 123368            |
| 55                  | 56230            | 53127             | 53163             |
| 65                  | 7256             | 6641              | 6600              |
| 75                  | 6391             | 6088              | 6022              |
| 85                  | 5967             | 4773              | 3761              |

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**CANDELA TABULATION**

|    | <u>0</u> | <u>15</u> | <u>30</u> | <u>45</u> | <u>60</u> | <u>75</u> | <u>90</u> | <u>105</u> | <u>120</u> | <u>135</u> |
|----|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| 0  | 10686.04 | 10686.04  | 10686.04  | 10686.04  | 10686.04  | 10686.04  | 10686.04  | 10686.04   | 10686.04   | 10686.04   |
| 1  | 10705.46 | 10699.89  | 10695.67  | 10689.42  | 10679.67  | 10672.95  | 10689.94  | 10680.77   | 10685.51   | 10676.24   |
| 2  | 10724.90 | 10715.33  | 10712.37  | 10701.76  | 10688.21  | 10676.00  | 10691.95  | 10676.41   | 10678.67   | 10664.54   |
| 3  | 10739.68 | 10725.42  | 10723.66  | 10712.09  | 10698.12  | 10676.88  | 10690.72  | 10669.92   | 10674.94   | 10658.80   |
| 4  | 10750.25 | 10744.73  | 10739.57  | 10724.22  | 10705.41  | 10683.85  | 10694.73  | 10668.16   | 10668.14   | 10651.93   |
| 5  | 10766.87 | 10761.94  | 10753.68  | 10737.35  | 10716.76  | 10690.47  | 10696.26  | 10669.49   | 10667.47   | 10644.03   |
| 6  | 10789.65 | 10779.44  | 10766.53  | 10750.20  | 10723.16  | 10699.18  | 10704.92  | 10669.52   | 10663.72   | 10638.66   |
| 7  | 10806.87 | 10797.04  | 10782.65  | 10764.86  | 10736.83  | 10705.76  | 10705.64  | 10670.85   | 10658.29   | 10636.52   |
| 8  | 10826.53 | 10814.58  | 10799.68  | 10781.64  | 10745.20  | 10714.16  | 10707.44  | 10673.91   | 10658.88   | 10632.88   |
| 9  | 10845.24 | 10829.76  | 10816.79  | 10795.94  | 10757.77  | 10723.01  | 10714.81  | 10677.01   | 10655.99   | 10629.74   |
| 10 | 10862.73 | 10847.41  | 10837.70  | 10808.27  | 10769.96  | 10728.53  | 10720.03  | 10678.68   | 10659.61   | 10624.28   |
| 11 | 10883.19 | 10868.32  | 10856.94  | 10825.10  | 10786.56  | 10742.55  | 10727.21  | 10685.85   | 10658.40   | 10626.27   |
| 12 | 10905.78 | 10888.30  | 10875.92  | 10841.72  | 10799.32  | 10751.58  | 10735.02  | 10691.16   | 10661.78   | 10623.60   |
| 13 | 10925.62 | 10909.31  | 10890.25  | 10858.65  | 10811.15  | 10763.03  | 10741.31  | 10693.66   | 10664.43   | 10625.24   |
| 14 | 10947.34 | 10924.95  | 10909.07  | 10876.10  | 10826.30  | 10773.18  | 10751.02  | 10701.40   | 10665.63   | 10626.98   |
| 15 | 10967.60 | 10945.68  | 10925.05  | 10891.41  | 10839.85  | 10786.73  | 10760.03  | 10705.21   | 10674.33   | 10629.64   |
| 16 | 10988.02 | 10965.66  | 10945.98  | 10906.34  | 10855.10  | 10802.91  | 10768.76  | 10718.24   | 10681.46   | 10635.11   |
| 17 | 11009.38 | 10984.77  | 10963.33  | 10919.73  | 10872.62  | 10814.48  | 10778.85  | 10723.89   | 10684.86   | 10638.21   |
| 18 | 11029.60 | 11007.89  | 10985.55  | 10938.67  | 10887.77  | 10829.54  | 10794.50  | 10734.15   | 10693.01   | 10644.88   |
| 19 | 11050.29 | 11025.05  | 11001.93  | 10958.47  | 10906.06  | 10839.92  | 10805.86  | 10747.47   | 10700.31   | 10650.43   |
| 20 | 11066.53 | 11044.93  | 11018.11  | 10976.33  | 10922.25  | 10857.47  | 10817.33  | 10758.17   | 10707.72   | 10657.60   |
| 21 | 11086.26 | 11060.16  | 11039.02  | 10994.53  | 10937.71  | 10874.78  | 10832.30  | 10770.91   | 10720.95   | 10666.64   |
| 22 | 11103.87 | 11077.06  | 11055.36  | 11007.42  | 10950.58  | 10886.95  | 10846.02  | 10782.56   | 10725.22   | 10671.56   |
| 23 | 11117.26 | 11089.38  | 11067.55  | 11023.14  | 10964.58  | 10899.94  | 10864.02  | 10792.69   | 10738.10   | 10681.60   |
| 24 | 11131.16 | 11105.86  | 11079.15  | 11035.29  | 10975.99  | 10913.86  | 10875.48  | 10808.43   | 10749.89   | 10694.63   |
| 25 | 11139.94 | 11109.83  | 11085.86  | 11046.58  | 10980.80  | 10926.78  | 10885.11  | 10817.53   | 10758.72   | 10702.71   |
| 26 | 11146.01 | 11120.65  | 11095.21  | 11051.94  | 10989.91  | 10932.89  | 10895.79  | 10826.96   | 10767.91   | 10707.62   |
| 27 | 11145.88 | 11117.95  | 11093.19  | 11051.23  | 10994.00  | 10934.80  | 10899.18  | 10833.52   | 10771.94   | 10713.29   |
| 28 | 11143.15 | 11107.75  | 11088.72  | 11047.99  | 10985.83  | 10931.39  | 10899.13  | 10835.54   | 10774.99   | 10720.02   |
| 29 | 11127.30 | 11101.63  | 11077.98  | 11035.55  | 10976.46  | 10927.25  | 10894.55  | 10832.57   | 10774.57   | 10718.19   |
| 30 | 11105.30 | 11079.54  | 11054.68  | 11018.56  | 10959.97  | 10918.79  | 10882.63  | 10824.00   | 10768.94   | 10715.85   |
| 31 | 11074.26 | 11056.47  | 11023.99  | 10987.88  | 10936.01  | 10890.76  | 10861.39  | 10803.58   | 10751.50   | 10702.91   |
| 32 | 11029.72 | 11013.19  | 10984.33  | 10953.09  | 10897.33  | 10856.55  | 10838.12  | 10783.99   | 10729.18   | 10684.89   |
| 33 | 10976.06 | 10956.54  | 10932.94  | 10901.87  | 10847.82  | 10811.82  | 10800.04  | 10746.76   | 10701.10   | 10654.13   |
| 34 | 10905.03 | 10879.99  | 10862.49  | 10837.70  | 10789.18  | 10756.28  | 10749.79  | 10699.35   | 10657.54   | 10614.83   |
| 35 | 10814.66 | 10792.99  | 10777.94  | 10754.11  | 10703.07  | 10683.09  | 10684.08  | 10636.02   | 10600.85   | 10562.84   |
| 36 | 10708.78 | 10687.78  | 10667.06  | 10647.24  | 10606.67  | 10589.61  | 10603.30  | 10557.56   | 10528.67   | 10493.07   |
| 37 | 10577.12 | 10558.46  | 10536.59  | 10520.54  | 10482.29  | 10473.51  | 10498.57  | 10452.33   | 10435.05   | 10404.36   |
| 38 | 10422.93 | 10408.16  | 10383.60  | 10366.35  | 10332.29  | 10329.23  | 10370.73  | 10324.68   | 10317.23   | 10290.12   |
| 39 | 10240.98 | 10220.29  | 10195.49  | 10185.45  | 10150.15  | 10155.81  | 10206.39  | 10167.57   | 10171.50   | 10144.79   |
| 40 | 10028.43 | 10003.23  | 9982.87   | 9971.44   | 9934.58   | 9946.19   | 10014.67  | 9978.23    | 9988.44    | 9972.75    |
| 41 | 9778.72  | 9752.59   | 9725.48   | 9716.58   | 9682.85   | 9702.49   | 9780.31   | 9749.58    | 9770.89    | 9757.08    |
| 42 | 9495.41  | 9461.04   | 9439.56   | 9429.10   | 9393.81   | 9413.69   | 9511.39   | 9475.07    | 9511.47    | 9502.49    |
| 43 | 9168.50  | 9128.12   | 9103.08   | 9090.62   | 9059.49   | 9079.64   | 9183.99   | 9159.71    | 9205.05    | 9201.14    |
| 44 | 8808.14  | 8758.78   | 8725.96   | 8717.97   | 8669.56   | 8691.47   | 8822.92   | 8793.10    | 8856.50    | 8847.46    |
| 45 | 8403.11  | 8345.34   | 8302.55   | 8294.00   | 8244.18   | 8259.91   | 8396.48   | 8368.15    | 8451.64    | 8445.49    |
| 46 | 7962.85  | 7894.80   | 7843.53   | 7831.73   | 7760.58   | 7781.07   | 7919.83   | 7898.26    | 7987.75    | 7988.75    |
| 47 | 7472.96  | 7414.93   | 7337.34   | 7316.25   | 7236.44   | 7250.77   | 7408.37   | 7376.32    | 7470.41    | 7473.26    |
| 48 | 6960.60  | 6884.32   | 6807.43   | 6781.77   | 6691.88   | 6699.34   | 6847.61   | 6821.71    | 6915.75    | 6911.43    |
| 49 | 6412.09  | 6338.79   | 6254.07   | 6222.28   | 6118.22   | 6113.68   | 6263.38   | 6237.46    | 6334.06    | 6328.38    |
| 50 | 5853.82  | 5780.61   | 5683.98   | 5654.23   | 5535.59   | 5528.99   | 5664.22   | 5644.61    | 5740.43    | 5733.10    |
| 51 | 5295.33  | 5220.05   | 5134.33   | 5076.52   | 4963.24   | 4949.98   | 5086.84   | 5045.64    | 5146.77    | 5139.46    |
| 52 | 4731.54  | 4659.89   | 4576.09   | 4518.30   | 4406.11   | 4394.32   | 4517.46   | 4458.89    | 4568.55    | 4564.64    |
| 53 | 4180.77  | 4111.70   | 4037.84   | 3968.99   | 3866.73   | 3858.89   | 3966.27   | 3902.92    | 4006.45    | 4016.43    |

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**CANDELA TABULATION - (Cont.)**

|     |         |         |         |         |         |         |         |         |         |         |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 54  | 3631.68 | 3570.32 | 3497.31 | 3442.67 | 3347.23 | 3343.83 | 3443.14 | 3361.22 | 3475.57 | 3475.04 |
| 55  | 3104.34 | 3038.16 | 2981.92 | 2933.06 | 2853.80 | 2848.17 | 2935.01 | 2862.05 | 2961.72 | 2962.41 |
| 56  | 2575.98 | 2523.18 | 2471.72 | 2449.76 | 2383.45 | 2408.90 | 2460.16 | 2375.91 | 2471.61 | 2463.85 |
| 57  | 2107.23 | 2105.56 | 2013.13 | 2019.31 | 1945.34 | 1969.64 | 2022.34 | 1918.98 | 2024.13 | 1990.06 |
| 58  | 1656.11 | 1687.93 | 1582.95 | 1589.40 | 1529.97 | 1532.84 | 1585.87 | 1493.32 | 1577.20 | 1560.57 |
| 59  | 1285.18 | 1271.84 | 1218.02 | 1222.68 | 1170.89 | 1169.32 | 1202.54 | 1121.55 | 1194.81 | 1182.17 |
| 60  | 975.03  | 961.92  | 915.87  | 912.48  | 868.53  | 864.82  | 885.70  | 887.17  | 867.28  | 857.65  |
| 61  | 792.27  | 720.71  | 738.38  | 675.28  | 669.24  | 630.93  | 641.03  | 654.60  | 619.91  | 643.54  |
| 62  | 611.16  | 546.19  | 562.84  | 500.87  | 470.15  | 467.43  | 467.24  | 422.03  | 445.77  | 432.11  |
| 63  | 430.04  | 421.38  | 387.30  | 386.81  | 362.96  | 362.48  | 360.00  | 329.98  | 339.93  | 332.14  |
| 64  | 348.30  | 342.38  | 317.12  | 313.00  | 299.52  | 304.10  | 298.57  | 281.89  | 283.38  | 282.99  |
| 65  | 295.15  | 295.43  | 276.25  | 270.16  | 265.02  | 272.68  | 268.46  | 255.99  | 255.34  | 257.81  |
| 66  | 264.83  | 267.34  | 252.93  | 246.95  | 244.80  | 252.93  | 250.45  | 239.00  | 238.66  | 241.34  |
| 67  | 245.33  | 248.35  | 236.97  | 232.23  | 231.03  | 237.65  | 237.47  | 226.07  | 225.27  | 228.04  |
| 68  | 231.46  | 233.96  | 224.39  | 222.14  | 220.95  | 225.44  | 226.31  | 215.06  | 214.81  | 216.44  |
| 69  | 220.07  | 222.50  | 213.62  | 212.04  | 212.57  | 215.40  | 216.23  | 206.75  | 204.35  | 206.11  |
| 70  | 210.53  | 211.03  | 203.74  | 201.97  | 204.38  | 205.36  | 206.15  | 198.63  | 193.91  | 196.30  |
| 71  | 201.82  | 199.63  | 194.36  | 193.18  | 195.52  | 195.32  | 196.07  | 190.19  | 185.01  | 186.62  |
| 72  | 193.14  | 190.30  | 184.82  | 183.68  | 186.02  | 184.60  | 185.68  | 180.52  | 175.89  | 176.57  |
| 73  | 183.21  | 180.42  | 174.57  | 174.17  | 175.19  | 173.17  | 173.84  | 170.07  | 166.23  | 165.57  |
| 74  | 171.41  | 169.56  | 163.94  | 163.59  | 163.37  | 162.10  | 161.97  | 158.61  | 155.55  | 154.89  |
| 75  | 159.22  | 157.96  | 153.01  | 151.66  | 150.99  | 149.87  | 150.01  | 146.54  | 145.36  | 144.28  |
| 76  | 147.69  | 145.60  | 142.21  | 140.41  | 139.74  | 137.82  | 138.04  | 134.53  | 134.53  | 133.64  |
| 77  | 136.45  | 133.96  | 131.46  | 129.04  | 128.21  | 126.25  | 126.68  | 123.31  | 123.76  | 123.13  |
| 78  | 125.03  | 122.39  | 120.38  | 117.81  | 117.23  | 114.64  | 114.43  | 111.72  | 113.38  | 112.85  |
| 79  | 114.02  | 111.40  | 109.48  | 106.93  | 106.59  | 103.09  | 102.78  | 100.47  | 103.20  | 103.16  |
| 80  | 102.81  | 100.74  | 98.47   | 96.70   | 95.56   | 91.46   | 91.99   | 89.58   | 92.32   | 93.03   |
| 81  | 92.52   | 90.34   | 88.06   | 86.45   | 83.93   | 79.72   | 80.25   | 78.41   | 82.33   | 82.82   |
| 82  | 81.88   | 80.04   | 77.65   | 75.97   | 72.30   | 68.43   | 69.43   | 67.23   | 71.73   | 72.61   |
| 83  | 71.23   | 69.57   | 67.25   | 64.40   | 60.67   | 56.53   | 57.40   | 54.90   | 60.50   | 62.41   |
| 84  | 60.58   | 58.42   | 56.56   | 51.72   | 47.71   | 42.80   | 44.80   | 42.03   | 48.52   | 50.33   |
| 85  | 50.06   | 47.70   | 45.90   | 40.04   | 33.68   | 30.01   | 31.55   | 29.52   | 35.45   | 38.86   |
| 86  | 38.84   | 36.99   | 32.76   | 27.38   | 19.62   | 17.21   | 18.30   | 14.80   | 22.38   | 25.78   |
| 87  | 26.92   | 24.61   | 18.36   | 14.73   | 6.66    | 4.50    | 5.07    | 9.75    | 9.45    | 12.38   |
| 88  | 6.49    | 12.22   | 12.14   | 2.10    | 3.25    | 0.22    | 0.40    | 4.95    | 1.31    | 8.18    |
| 89  | 3.08    | 0.07    | 6.17    | 0.06    | 0.11    | 0.07    | 0.20    | 0.19    | 0.21    | 4.22    |
| 90  | 0.13    | 0.04    | 0.19    | 0.04    | 0.05    | 0.04    | 0.16    | 0.17    | 0.17    | 0.26    |
| 91  | 0.05    | 0.04    | 0.05    | 0.05    | 0.05    | 0.05    | 0.18    | 0.19    | 0.19    | 0.19    |
| 92  | 0.05    | 0.05    | 0.05    | 0.05    | 0.05    | 0.05    | 0.20    | 0.21    | 0.21    | 0.21    |
| 93  | 0.06    | 0.06    | 0.06    | 0.06    | 0.06    | 0.06    | 0.23    | 0.24    | 0.23    | 0.24    |
| 94  | 0.07    | 0.07    | 0.07    | 0.07    | 0.07    | 0.07    | 0.26    | 0.27    | 0.27    | 0.27    |
| 95  | 0.08    | 0.08    | 0.08    | 0.08    | 0.08    | 0.08    | 0.30    | 0.31    | 0.31    | 0.31    |
| 96  | 0.09    | 0.09    | 0.10    | 0.10    | 0.10    | 0.09    | 0.35    | 0.37    | 0.37    | 0.37    |
| 97  | 0.11    | 0.11    | 0.11    | 0.11    | 0.12    | 0.11    | 0.41    | 0.43    | 0.42    | 0.43    |
| 98  | 0.13    | 0.13    | 0.13    | 0.13    | 0.14    | 0.13    | 0.48    | 0.49    | 0.49    | 0.50    |
| 99  | 0.15    | 0.15    | 0.16    | 0.16    | 0.16    | 0.15    | 0.55    | 0.57    | 0.56    | 0.57    |
| 100 | 0.17    | 0.17    | 0.18    | 0.18    | 0.19    | 0.18    | 0.63    | 0.65    | 0.64    | 0.65    |
| 101 | 0.20    | 0.20    | 0.21    | 0.21    | 0.22    | 0.21    | 0.72    | 0.74    | 0.73    | 0.74    |
| 102 | 0.23    | 0.23    | 0.24    | 0.24    | 0.25    | 0.24    | 0.82    | 0.84    | 0.83    | 0.83    |
| 103 | 0.26    | 0.26    | 0.27    | 0.27    | 0.28    | 0.27    | 0.93    | 0.96    | 0.94    | 0.94    |
| 104 | 0.29    | 0.30    | 0.31    | 0.31    | 0.31    | 0.31    | 1.05    | 1.07    | 1.05    | 1.06    |
| 105 | 0.33    | 0.33    | 0.34    | 0.35    | 0.35    | 0.34    | 1.16    | 1.18    | 1.16    | 1.16    |
| 106 | 0.38    | 0.38    | 0.39    | 0.39    | 0.40    | 0.38    | 1.25    | 1.28    | 1.26    | 1.26    |
| 107 | 0.43    | 0.43    | 0.44    | 0.44    | 0.44    | 0.43    | 1.35    | 1.37    | 1.35    | 1.35    |
| 108 | 0.48    | 0.48    | 0.49    | 0.49    | 0.50    | 0.48    | 1.43    | 1.46    | 1.45    | 1.45    |
| 109 | 0.54    | 0.54    | 0.55    | 0.55    | 0.56    | 0.54    | 1.52    | 1.54    | 1.54    | 1.55    |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBRMSR-LED175DMV40.IES**

**CANDELA TABULATION - (Cont.)**

|     |      |      |      |      |      |      |       |       |       |       |
|-----|------|------|------|------|------|------|-------|-------|-------|-------|
| 110 | 0.61 | 0.61 | 0.62 | 0.62 | 0.62 | 0.60 | 1.60  | 1.63  | 1.63  | 1.65  |
| 111 | 0.68 | 0.68 | 0.70 | 0.69 | 0.69 | 0.66 | 1.68  | 1.71  | 1.72  | 1.75  |
| 112 | 0.76 | 0.76 | 0.77 | 0.76 | 0.75 | 0.73 | 1.76  | 1.79  | 1.82  | 1.85  |
| 113 | 0.85 | 0.85 | 0.86 | 0.84 | 0.83 | 0.80 | 1.84  | 1.89  | 1.91  | 1.95  |
| 114 | 0.93 | 0.94 | 0.94 | 0.92 | 0.91 | 0.88 | 1.94  | 1.99  | 2.01  | 2.06  |
| 115 | 1.02 | 1.03 | 1.04 | 1.02 | 0.99 | 0.97 | 2.03  | 2.08  | 2.11  | 2.17  |
| 116 | 1.12 | 1.13 | 1.14 | 1.11 | 1.09 | 1.06 | 2.13  | 2.20  | 2.23  | 2.29  |
| 117 | 1.22 | 1.23 | 1.24 | 1.21 | 1.19 | 1.15 | 2.27  | 2.35  | 2.37  | 2.43  |
| 118 | 1.32 | 1.33 | 1.34 | 1.31 | 1.30 | 1.26 | 2.48  | 2.51  | 2.52  | 2.57  |
| 119 | 1.42 | 1.44 | 1.45 | 1.42 | 1.41 | 1.36 | 2.60  | 2.65  | 2.66  | 2.72  |
| 120 | 1.53 | 1.56 | 1.56 | 1.53 | 1.52 | 1.46 | 2.73  | 2.79  | 2.80  | 2.87  |
| 121 | 1.65 | 1.67 | 1.67 | 1.64 | 1.64 | 1.57 | 2.86  | 2.92  | 2.93  | 3.02  |
| 122 | 1.76 | 1.79 | 1.79 | 1.75 | 1.76 | 1.68 | 2.99  | 3.06  | 3.06  | 3.18  |
| 123 | 1.88 | 1.90 | 1.90 | 1.86 | 1.88 | 1.80 | 3.13  | 3.22  | 3.20  | 3.34  |
| 124 | 2.00 | 2.02 | 2.01 | 1.97 | 2.00 | 1.91 | 3.29  | 3.38  | 3.36  | 3.51  |
| 125 | 2.11 | 2.13 | 2.12 | 2.09 | 2.12 | 2.02 | 3.45  | 3.54  | 3.54  | 3.69  |
| 126 | 2.24 | 2.25 | 2.24 | 2.20 | 2.24 | 2.15 | 3.62  | 3.71  | 3.72  | 3.88  |
| 127 | 2.36 | 2.37 | 2.36 | 2.32 | 2.37 | 2.29 | 3.79  | 3.88  | 3.92  | 4.06  |
| 128 | 2.48 | 2.50 | 2.49 | 2.43 | 2.50 | 2.44 | 3.98  | 4.09  | 4.13  | 4.26  |
| 129 | 2.61 | 2.62 | 2.62 | 2.56 | 2.64 | 2.59 | 4.17  | 4.31  | 4.35  | 4.46  |
| 130 | 2.75 | 2.76 | 2.77 | 2.69 | 2.77 | 2.75 | 4.38  | 4.51  | 4.58  | 4.68  |
| 131 | 2.89 | 2.90 | 2.90 | 2.82 | 2.90 | 2.91 | 4.58  | 4.71  | 4.79  | 4.90  |
| 132 | 3.04 | 3.06 | 3.04 | 2.95 | 3.04 | 3.07 | 4.77  | 4.92  | 5.01  | 5.13  |
| 133 | 3.21 | 3.22 | 3.18 | 3.10 | 3.18 | 3.24 | 4.94  | 5.12  | 5.22  | 5.35  |
| 134 | 3.34 | 3.37 | 3.31 | 3.27 | 3.31 | 3.40 | 5.10  | 5.31  | 5.41  | 5.57  |
| 135 | 3.47 | 3.50 | 3.44 | 3.43 | 3.44 | 3.56 | 5.27  | 5.48  | 5.59  | 5.76  |
| 136 | 3.60 | 3.62 | 3.57 | 3.60 | 3.58 | 3.72 | 5.46  | 5.65  | 5.77  | 5.95  |
| 137 | 3.75 | 3.76 | 3.71 | 3.78 | 3.73 | 3.89 | 5.62  | 5.84  | 5.95  | 6.15  |
| 138 | 3.91 | 3.90 | 3.86 | 3.96 | 3.88 | 4.04 | 5.78  | 6.03  | 6.12  | 6.36  |
| 139 | 4.07 | 4.05 | 4.02 | 4.12 | 4.03 | 4.21 | 6.00  | 6.21  | 6.30  | 6.56  |
| 140 | 4.24 | 4.19 | 4.19 | 4.26 | 4.18 | 4.36 | 6.19  | 6.40  | 6.49  | 6.76  |
| 141 | 4.41 | 4.35 | 4.36 | 4.40 | 4.34 | 4.51 | 6.37  | 6.61  | 6.69  | 6.95  |
| 142 | 4.57 | 4.53 | 4.56 | 4.54 | 4.51 | 4.66 | 6.56  | 6.82  | 6.89  | 7.14  |
| 143 | 4.71 | 4.71 | 4.76 | 4.69 | 4.68 | 4.81 | 6.75  | 7.03  | 7.10  | 7.32  |
| 144 | 4.84 | 4.89 | 4.92 | 4.83 | 4.84 | 4.97 | 6.95  | 7.26  | 7.30  | 7.50  |
| 145 | 5.01 | 5.06 | 5.05 | 4.99 | 4.99 | 5.12 | 7.20  | 7.49  | 7.49  | 7.70  |
| 146 | 5.15 | 5.21 | 5.16 | 5.15 | 5.13 | 5.26 | 7.43  | 7.71  | 7.67  | 7.91  |
| 147 | 5.25 | 5.32 | 5.26 | 5.30 | 5.27 | 5.40 | 7.65  | 7.89  | 7.85  | 8.13  |
| 148 | 5.31 | 5.40 | 5.34 | 5.44 | 5.39 | 5.52 | 7.85  | 8.05  | 8.03  | 8.34  |
| 149 | 5.36 | 5.47 | 5.44 | 5.57 | 5.54 | 5.64 | 8.04  | 8.22  | 8.20  | 8.56  |
| 150 | 5.42 | 5.55 | 5.57 | 5.72 | 5.71 | 5.75 | 8.22  | 8.38  | 8.42  | 8.75  |
| 151 | 5.51 | 5.65 | 5.72 | 5.86 | 5.89 | 5.86 | 8.40  | 8.53  | 8.64  | 8.93  |
| 152 | 5.60 | 5.78 | 5.85 | 6.00 | 6.10 | 5.97 | 8.57  | 8.68  | 8.88  | 9.07  |
| 153 | 5.68 | 5.90 | 5.98 | 6.12 | 6.29 | 6.06 | 8.72  | 8.82  | 9.15  | 9.23  |
| 154 | 5.73 | 6.00 | 6.10 | 6.22 | 6.45 | 6.16 | 8.88  | 8.98  | 9.37  | 9.39  |
| 155 | 5.74 | 6.09 | 6.21 | 6.32 | 6.60 | 6.32 | 9.05  | 9.19  | 9.57  | 9.54  |
| 156 | 5.76 | 6.19 | 6.30 | 6.43 | 6.71 | 6.49 | 9.25  | 9.42  | 9.75  | 9.69  |
| 157 | 5.80 | 6.28 | 6.41 | 6.56 | 6.80 | 6.65 | 9.47  | 9.62  | 9.89  | 9.85  |
| 158 | 5.83 | 6.37 | 6.51 | 6.70 | 6.86 | 6.78 | 9.70  | 9.81  | 10.01 | 10.02 |
| 159 | 5.89 | 6.46 | 6.59 | 6.82 | 6.90 | 6.85 | 9.90  | 9.94  | 10.11 | 10.18 |
| 160 | 5.94 | 6.52 | 6.70 | 6.93 | 6.93 | 6.88 | 10.02 | 10.02 | 10.18 | 10.30 |
| 161 | 5.97 | 6.58 | 6.78 | 7.00 | 6.96 | 6.92 | 10.05 | 10.06 | 10.20 | 10.38 |
| 162 | 6.04 | 6.64 | 6.85 | 7.05 | 6.96 | 6.94 | 10.03 | 10.05 | 10.21 | 10.42 |
| 163 | 6.18 | 6.73 | 6.96 | 7.13 | 7.00 | 7.01 | 10.02 | 10.04 | 10.21 | 10.44 |
| 164 | 6.38 | 6.86 | 7.09 | 7.21 | 7.07 | 7.11 | 10.03 | 10.09 | 10.24 | 10.48 |
| 165 | 6.62 | 7.00 | 7.24 | 7.31 | 7.20 | 7.23 | 10.04 | 10.15 | 10.29 | 10.52 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBRMSR-LED175DMV40.IES**

**CANDELA TABULATION - (Cont.)**

|     |      |      |      |      |      |      |       |       |       |       |
|-----|------|------|------|------|------|------|-------|-------|-------|-------|
| 166 | 6.82 | 7.17 | 7.40 | 7.45 | 7.36 | 7.39 | 10.02 | 10.20 | 10.35 | 10.55 |
| 167 | 6.97 | 7.32 | 7.51 | 7.53 | 7.48 | 7.53 | 10.03 | 10.23 | 10.39 | 10.55 |
| 168 | 7.08 | 7.41 | 7.59 | 7.57 | 7.56 | 7.63 | 10.04 | 10.22 | 10.38 | 10.49 |
| 169 | 7.20 | 7.40 | 7.61 | 7.60 | 7.61 | 7.68 | 10.00 | 10.15 | 10.30 | 10.37 |
| 170 | 7.26 | 7.28 | 7.54 | 7.57 | 7.57 | 7.66 | 9.97  | 10.09 | 10.21 | 10.29 |
| 171 | 7.27 | 7.17 | 7.50 | 7.53 | 7.53 | 7.63 | 9.99  | 10.09 | 10.21 | 10.24 |
| 172 | 7.34 | 7.28 | 7.60 | 7.59 | 7.61 | 7.70 | 10.00 | 10.09 | 10.19 | 10.17 |
| 173 | 7.44 | 7.47 | 7.76 | 7.74 | 7.76 | 7.88 | 9.94  | 10.04 | 10.12 | 10.05 |
| 174 | 7.67 | 7.74 | 8.01 | 8.06 | 8.07 | 8.22 | 9.92  | 10.03 | 10.08 | 9.99  |
| 175 | 7.90 | 8.04 | 8.32 | 8.37 | 8.43 | 8.57 | 9.89  | 10.00 | 10.04 | 9.94  |
| 176 | 8.10 | 8.21 | 8.53 | 8.51 | 8.63 | 8.79 | 9.78  | 9.91  | 9.94  | 9.84  |
| 177 | 8.30 | 8.33 | 8.65 | 8.62 | 8.75 | 8.91 | 9.69  | 9.81  | 9.86  | 9.76  |
| 178 | 8.45 | 8.38 | 8.68 | 8.69 | 8.75 | 8.94 | 9.49  | 9.64  | 9.68  | 9.60  |
| 179 | 8.70 | 8.46 | 8.63 | 8.75 | 8.78 | 8.98 | 9.41  | 9.57  | 9.59  | 9.52  |
| 180 | 8.94 | 8.94 | 8.94 | 8.94 | 8.94 | 8.94 | 8.94  | 8.94  | 8.94  | 8.94  |

**Vert.  
Angles**

**Horizontal Angles**

|    | <u>150</u> | <u>165</u> | <u>180</u> | <u>195</u> | <u>210</u> | <u>225</u> | <u>240</u> | <u>255</u> | <u>270</u> | <u>285</u> |
|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0  | 10686.04   | 10686.04   | 10686.04   | 10686.04   | 10686.04   | 10686.04   | 10686.04   | 10686.04   | 10686.04   | 10686.04   |
| 1  | 10674.05   | 10674.50   | 10677.13   | 10671.97   | 10674.51   | 10674.64   | 10668.83   | 10668.82   | 10699.10   | 10694.00   |
| 2  | 10662.13   | 10664.40   | 10667.73   | 10662.29   | 10667.81   | 10669.62   | 10668.13   | 10670.81   | 10705.71   | 10704.67   |
| 3  | 10654.73   | 10651.05   | 10653.13   | 10653.30   | 10663.00   | 10664.59   | 10667.13   | 10674.21   | 10708.23   | 10716.90   |
| 4  | 10643.99   | 10639.01   | 10648.00   | 10641.03   | 10654.52   | 10663.07   | 10662.69   | 10680.01   | 10715.20   | 10721.91   |
| 5  | 10634.76   | 10633.29   | 10638.84   | 10634.32   | 10650.04   | 10660.74   | 10661.45   | 10686.00   | 10722.58   | 10736.30   |
| 6  | 10632.08   | 10623.34   | 10633.32   | 10626.72   | 10644.68   | 10659.00   | 10664.47   | 10688.53   | 10732.71   | 10746.37   |
| 7  | 10623.18   | 10619.49   | 10629.21   | 10624.98   | 10642.86   | 10656.26   | 10667.87   | 10693.53   | 10743.22   | 10757.47   |
| 8  | 10616.67   | 10614.18   | 10623.15   | 10621.92   | 10638.56   | 10656.90   | 10669.87   | 10700.01   | 10750.71   | 10770.83   |
| 9  | 10608.53   | 10609.63   | 10615.75   | 10618.24   | 10639.20   | 10660.27   | 10674.38   | 10708.64   | 10760.31   | 10785.15   |
| 10 | 10605.53   | 10603.00   | 10610.61   | 10612.82   | 10638.14   | 10663.36   | 10680.49   | 10714.29   | 10770.48   | 10799.49   |
| 11 | 10603.41   | 10595.76   | 10605.19   | 10605.95   | 10635.49   | 10661.07   | 10683.87   | 10722.48   | 10782.72   | 10812.31   |
| 12 | 10600.12   | 10589.72   | 10602.77   | 10606.88   | 10636.11   | 10663.97   | 10689.62   | 10731.13   | 10796.32   | 10828.96   |
| 13 | 10600.79   | 10586.87   | 10598.60   | 10607.25   | 10631.75   | 10663.40   | 10699.65   | 10743.46   | 10804.47   | 10842.99   |
| 14 | 10601.08   | 10588.88   | 10593.57   | 10605.26   | 10638.45   | 10670.35   | 10709.33   | 10752.18   | 10818.62   | 10860.17   |
| 15 | 10598.06   | 10590.54   | 10589.60   | 10606.89   | 10634.53   | 10676.57   | 10710.51   | 10761.53   | 10835.50   | 10873.28   |
| 16 | 10597.78   | 10590.92   | 10596.76   | 10606.25   | 10643.75   | 10677.99   | 10723.79   | 10772.25   | 10848.63   | 10890.50   |
| 17 | 10600.24   | 10591.58   | 10598.69   | 10608.90   | 10647.63   | 10686.69   | 10732.30   | 10783.52   | 10863.12   | 10912.15   |
| 18 | 10605.29   | 10595.94   | 10596.71   | 10618.05   | 10657.37   | 10691.92   | 10744.37   | 10799.21   | 10875.79   | 10928.38   |
| 19 | 10610.80   | 10601.79   | 10600.52   | 10621.78   | 10661.08   | 10704.48   | 10755.81   | 10809.66   | 10891.51   | 10943.25   |
| 20 | 10619.85   | 10605.80   | 10606.11   | 10627.87   | 10670.37   | 10716.44   | 10765.94   | 10820.95   | 10905.79   | 10960.81   |
| 21 | 10626.56   | 10617.36   | 10617.87   | 10633.77   | 10679.46   | 10726.82   | 10778.45   | 10833.04   | 10922.00   | 10979.84   |
| 22 | 10636.95   | 10622.11   | 10623.59   | 10644.81   | 10685.20   | 10740.18   | 10788.86   | 10846.05   | 10935.59   | 10988.89   |
| 23 | 10649.11   | 10635.04   | 10634.00   | 10654.49   | 10696.57   | 10746.93   | 10800.54   | 10856.57   | 10946.79   | 11004.88   |
| 24 | 10649.77   | 10643.76   | 10643.52   | 10661.87   | 10704.56   | 10758.47   | 10811.13   | 10869.17   | 10960.70   | 11014.71   |
| 25 | 10662.82   | 10653.45   | 10649.57   | 10669.82   | 10714.84   | 10767.30   | 10819.36   | 10874.62   | 10968.35   | 11025.29   |
| 26 | 10667.60   | 10655.86   | 10660.41   | 10678.57   | 10722.99   | 10778.34   | 10830.48   | 10885.98   | 10980.08   | 11034.61   |
| 27 | 10672.31   | 10662.64   | 10665.16   | 10681.75   | 10726.41   | 10780.73   | 10832.52   | 10890.61   | 10980.84   | 11037.31   |
| 28 | 10674.89   | 10661.71   | 10668.43   | 10687.14   | 10731.43   | 10780.78   | 10834.83   | 10890.35   | 10981.18   | 11039.01   |
| 29 | 10669.17   | 10662.71   | 10666.11   | 10688.20   | 10731.07   | 10781.12   | 10833.10   | 10886.96   | 10972.78   | 11030.32   |
| 30 | 10668.15   | 10657.70   | 10664.67   | 10685.21   | 10725.75   | 10775.12   | 10828.85   | 10876.96   | 10958.60   | 11016.76   |
| 31 | 10667.75   | 10650.81   | 10650.15   | 10674.55   | 10716.43   | 10762.09   | 10813.13   | 10862.83   | 10944.68   | 10996.04   |
| 32 | 10654.13   | 10631.34   | 10636.77   | 10660.42   | 10700.20   | 10744.48   | 10792.94   | 10835.08   | 10913.83   | 10966.89   |
| 33 | 10622.64   | 10605.25   | 10614.10   | 10638.58   | 10674.25   | 10713.83   | 10760.93   | 10799.70   | 10876.05   | 10930.49   |
| 34 | 10590.99   | 10572.72   | 10580.55   | 10607.60   | 10636.74   | 10679.31   | 10718.85   | 10758.43   | 10823.79   | 10873.26   |
| 35 | 10547.32   | 10526.09   | 10535.33   | 10561.09   | 10596.02   | 10625.73   | 10665.96   | 10693.86   | 10755.75   | 10807.31   |
| 36 | 10483.82   | 10464.15   | 10479.41   | 10503.55   | 10535.97   | 10562.19   | 10593.85   | 10620.59   | 10674.21   | 10725.41   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBRMSR-LED175DMV40.IES**

**CANDELA TABULATION - (Cont.)**

|    |          |          |          |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 37 | 10404.04 | 10382.94 | 10397.32 | 10429.65 | 10456.82 | 10479.26 | 10506.19 | 10524.03 | 10570.65 | 10619.63 |
| 38 | 10295.29 | 10276.68 | 10298.45 | 10329.13 | 10359.69 | 10369.45 | 10396.37 | 10403.58 | 10440.55 | 10488.65 |
| 39 | 10161.28 | 10147.44 | 10168.38 | 10202.28 | 10227.96 | 10237.59 | 10256.99 | 10255.04 | 10282.58 | 10330.41 |
| 40 | 9998.36  | 9988.39  | 10012.70 | 10046.37 | 10070.33 | 10071.47 | 10084.33 | 10075.93 | 10100.09 | 10145.63 |
| 41 | 9797.74  | 9790.97  | 9825.35  | 9860.09  | 9879.40  | 9877.22  | 9888.82  | 9865.29  | 9880.28  | 9928.24  |
| 42 | 9550.96  | 9554.92  | 9595.30  | 9626.34  | 9650.61  | 9645.07  | 9654.35  | 9617.34  | 9623.44  | 9674.92  |
| 43 | 9268.47  | 9273.98  | 9320.54  | 9348.21  | 9381.98  | 9369.71  | 9373.05  | 9327.97  | 9328.71  | 9384.32  |
| 44 | 8923.37  | 8949.68  | 9001.43  | 9031.57  | 9063.26  | 9049.67  | 9049.39  | 8991.76  | 8980.76  | 9049.32  |
| 45 | 8535.95  | 8567.52  | 8631.77  | 8653.56  | 8688.35  | 8676.04  | 8679.48  | 8616.18  | 8595.74  | 8673.03  |
| 46 | 8088.59  | 8130.16  | 8203.96  | 8234.79  | 8274.76  | 8262.84  | 8254.91  | 8191.44  | 8154.78  | 8254.90  |
| 47 | 7586.14  | 7639.29  | 7719.05  | 7742.11  | 7791.23  | 7792.15  | 7783.15  | 7712.47  | 7683.09  | 7789.42  |
| 48 | 7030.84  | 7105.33  | 7186.57  | 7209.29  | 7261.48  | 7275.30  | 7265.39  | 7204.50  | 7167.14  | 7294.54  |
| 49 | 6457.07  | 6528.01  | 6613.62  | 6643.53  | 6697.22  | 6732.44  | 6727.86  | 6662.10  | 6631.92  | 6761.96  |
| 50 | 5863.54  | 5932.95  | 6029.67  | 6045.54  | 6113.26  | 6157.17  | 6161.36  | 6106.07  | 6086.53  | 6215.64  |
| 51 | 5266.60  | 5331.79  | 5427.30  | 5451.59  | 5529.23  | 5581.93  | 5596.93  | 5557.26  | 5530.42  | 5656.98  |
| 52 | 4683.70  | 4738.03  | 4846.23  | 4868.24  | 4946.63  | 4998.22  | 5037.98  | 4989.63  | 4979.40  | 5088.33  |
| 53 | 4123.30  | 4169.24  | 4272.46  | 4311.39  | 4392.45  | 4439.68  | 4486.07  | 4456.05  | 4426.48  | 4531.59  |
| 54 | 3581.32  | 3614.84  | 3724.26  | 3761.68  | 3840.16  | 3880.70  | 3944.68  | 3916.22  | 3890.89  | 3977.18  |
| 55 | 3060.89  | 3087.66  | 3193.12  | 3238.96  | 3312.03  | 3346.92  | 3407.65  | 3389.72  | 3355.67  | 3444.16  |
| 56 | 2558.86  | 2583.02  | 2678.55  | 2719.09  | 2785.35  | 2817.12  | 2877.80  | 2855.77  | 2818.55  | 2911.59  |
| 57 | 2124.51  | 2100.87  | 2229.37  | 2210.29  | 2324.96  | 2305.47  | 2395.36  | 2328.91  | 2301.37  | 2436.14  |
| 58 | 1690.16  | 1652.92  | 1780.18  | 1747.77  | 1864.58  | 1827.66  | 1912.92  | 1838.02  | 1815.49  | 1960.69  |
| 59 | 1256.94  | 1258.04  | 1333.62  | 1335.28  | 1406.60  | 1398.82  | 1430.56  | 1402.05  | 1381.94  | 1485.56  |
| 60 | 920.39   | 916.75   | 979.41   | 983.50   | 1042.74  | 1030.84  | 1053.30  | 1039.57  | 1022.57  | 1107.09  |
| 61 | 646.20   | 723.77   | 689.50   | 695.77   | 745.76   | 818.20   | 758.33   | 833.13   | 820.84   | 804.21   |
| 62 | 459.20   | 533.56   | 486.18   | 565.42   | 533.05   | 608.87   | 554.70   | 630.48   | 621.58   | 594.76   |
| 63 | 346.93   | 343.34   | 364.76   | 438.85   | 396.96   | 399.54   | 424.73   | 427.84   | 422.31   | 454.87   |
| 64 | 289.43   | 286.73   | 300.64   | 312.29   | 322.38   | 328.82   | 345.63   | 349.69   | 345.65   | 367.10   |
| 65 | 261.86   | 258.33   | 267.81   | 275.54   | 284.31   | 288.68   | 298.33   | 302.54   | 297.86   | 313.29   |
| 66 | 244.73   | 241.36   | 247.83   | 255.68   | 261.23   | 264.18   | 268.59   | 272.76   | 267.57   | 276.32   |
| 67 | 231.69   | 227.32   | 233.34   | 239.84   | 245.26   | 246.14   | 248.89   | 252.04   | 247.13   | 253.27   |
| 68 | 220.99   | 215.90   | 222.00   | 226.81   | 231.96   | 231.98   | 233.94   | 236.73   | 232.56   | 237.67   |
| 69 | 210.29   | 205.91   | 211.62   | 215.25   | 221.50   | 220.59   | 222.42   | 223.91   | 220.41   | 225.50   |
| 70 | 199.59   | 196.71   | 201.26   | 205.20   | 211.04   | 210.76   | 211.75   | 212.21   | 209.82   | 215.88   |
| 71 | 190.41   | 187.89   | 192.33   | 195.74   | 200.59   | 201.48   | 201.10   | 201.85   | 200.96   | 206.26   |
| 72 | 181.31   | 179.41   | 183.49   | 186.29   | 191.42   | 192.25   | 191.19   | 191.97   | 191.67   | 196.64   |
| 73 | 170.92   | 170.12   | 173.60   | 175.96   | 181.16   | 182.72   | 181.44   | 181.70   | 182.22   | 187.13   |
| 74 | 160.09   | 159.85   | 162.58   | 165.83   | 170.63   | 172.53   | 171.45   | 171.34   | 171.78   | 177.09   |
| 75 | 149.11   | 149.28   | 151.66   | 154.71   | 159.39   | 160.99   | 160.67   | 160.34   | 160.76   | 166.51   |
| 76 | 137.82   | 138.39   | 140.81   | 143.47   | 147.85   | 149.48   | 149.53   | 149.29   | 149.61   | 154.32   |
| 77 | 127.22   | 127.31   | 130.16   | 132.21   | 137.01   | 137.65   | 138.61   | 138.00   | 138.59   | 141.91   |
| 78 | 116.73   | 116.41   | 119.38   | 120.95   | 125.46   | 125.84   | 127.31   | 126.21   | 125.88   | 129.85   |
| 79 | 106.56   | 106.41   | 109.12   | 110.32   | 115.09   | 114.83   | 116.00   | 113.58   | 113.97   | 117.55   |
| 80 | 96.25    | 96.19    | 99.18    | 99.94    | 104.41   | 104.13   | 104.88   | 102.48   | 103.03   | 106.05   |
| 81 | 86.26    | 86.05    | 89.32    | 89.38    | 94.15    | 93.52    | 93.31    | 91.83    | 92.07    | 95.11    |
| 82 | 76.45    | 75.92    | 79.34    | 79.54    | 84.05    | 82.09    | 82.28    | 80.06    | 80.30    | 84.29    |
| 83 | 66.91    | 65.78    | 69.55    | 69.71    | 73.78    | 70.65    | 71.08    | 68.28    | 68.53    | 72.99    |
| 84 | 56.58    | 55.41    | 59.64    | 59.04    | 63.52    | 59.20    | 59.63    | 56.51    | 56.76    | 60.00    |
| 85 | 46.35    | 45.47    | 49.33    | 48.56    | 52.12    | 46.98    | 46.48    | 42.33    | 43.21    | 46.46    |
| 86 | 32.60    | 34.50    | 38.54    | 37.67    | 39.54    | 32.60    | 32.33    | 27.34    | 27.84    | 32.98    |
| 87 | 18.85    | 22.89    | 25.74    | 25.79    | 26.37    | 18.18    | 18.19    | 11.70    | 11.33    | 19.51    |
| 88 | 5.24     | 5.37     | 12.94    | 5.82     | 13.21    | 6.45     | 4.36     | 7.68     | 7.29     | 6.05     |
| 89 | 0.20     | 2.68     | 0.17     | 2.93     | 0.46     | 3.24     | 0.21     | 3.96     | 3.68     | 0.30     |
| 90 | 0.17     | 0.22     | 0.16     | 0.19     | 0.15     | 0.22     | 0.15     | 0.25     | 0.07     | 0.06     |
| 91 | 0.18     | 0.19     | 0.18     | 0.18     | 0.17     | 0.17     | 0.16     | 0.16     | 0.04     | 0.04     |
| 92 | 0.21     | 0.21     | 0.20     | 0.20     | 0.19     | 0.19     | 0.18     | 0.18     | 0.05     | 0.04     |

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**CANDELA TABULATION - (Cont.)**

|     |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|
| 93  | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.20 | 0.20 | 0.05 | 0.05 |
| 94  | 0.26 | 0.26 | 0.25 | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.06 | 0.06 |
| 95  | 0.30 | 0.30 | 0.29 | 0.29 | 0.28 | 0.28 | 0.27 | 0.27 | 0.07 | 0.07 |
| 96  | 0.35 | 0.35 | 0.34 | 0.33 | 0.32 | 0.32 | 0.31 | 0.31 | 0.08 | 0.08 |
| 97  | 0.42 | 0.41 | 0.39 | 0.39 | 0.38 | 0.37 | 0.36 | 0.36 | 0.10 | 0.09 |
| 98  | 0.48 | 0.47 | 0.45 | 0.45 | 0.43 | 0.43 | 0.42 | 0.41 | 0.12 | 0.11 |
| 99  | 0.55 | 0.54 | 0.52 | 0.52 | 0.50 | 0.49 | 0.48 | 0.48 | 0.14 | 0.13 |
| 100 | 0.63 | 0.62 | 0.60 | 0.59 | 0.57 | 0.56 | 0.55 | 0.55 | 0.16 | 0.15 |
| 101 | 0.72 | 0.71 | 0.68 | 0.67 | 0.65 | 0.64 | 0.63 | 0.62 | 0.18 | 0.18 |
| 102 | 0.81 | 0.81 | 0.78 | 0.77 | 0.74 | 0.73 | 0.72 | 0.71 | 0.21 | 0.20 |
| 103 | 0.92 | 0.91 | 0.88 | 0.87 | 0.84 | 0.84 | 0.81 | 0.81 | 0.24 | 0.23 |
| 104 | 1.03 | 1.03 | 0.99 | 0.98 | 0.95 | 0.94 | 0.92 | 0.91 | 0.27 | 0.26 |
| 105 | 1.14 | 1.13 | 1.10 | 1.08 | 1.05 | 1.04 | 1.02 | 1.01 | 0.30 | 0.30 |
| 106 | 1.24 | 1.23 | 1.19 | 1.18 | 1.15 | 1.13 | 1.11 | 1.10 | 0.34 | 0.33 |
| 107 | 1.33 | 1.32 | 1.29 | 1.27 | 1.24 | 1.22 | 1.19 | 1.18 | 0.38 | 0.38 |
| 108 | 1.43 | 1.42 | 1.38 | 1.36 | 1.33 | 1.31 | 1.28 | 1.27 | 0.43 | 0.42 |
| 109 | 1.53 | 1.52 | 1.49 | 1.46 | 1.43 | 1.41 | 1.37 | 1.35 | 0.48 | 0.47 |
| 110 | 1.63 | 1.63 | 1.59 | 1.57 | 1.53 | 1.51 | 1.45 | 1.44 | 0.54 | 0.52 |
| 111 | 1.74 | 1.74 | 1.70 | 1.68 | 1.64 | 1.61 | 1.54 | 1.52 | 0.60 | 0.58 |
| 112 | 1.85 | 1.85 | 1.82 | 1.79 | 1.75 | 1.71 | 1.64 | 1.61 | 0.66 | 0.63 |
| 113 | 1.96 | 1.96 | 1.93 | 1.91 | 1.86 | 1.81 | 1.74 | 1.70 | 0.73 | 0.68 |
| 114 | 2.07 | 2.08 | 2.06 | 2.03 | 1.98 | 1.92 | 1.84 | 1.80 | 0.81 | 0.74 |
| 115 | 2.19 | 2.20 | 2.18 | 2.15 | 2.10 | 2.03 | 1.94 | 1.90 | 0.90 | 0.81 |
| 116 | 2.31 | 2.33 | 2.31 | 2.28 | 2.22 | 2.14 | 2.06 | 2.00 | 0.99 | 0.91 |
| 117 | 2.43 | 2.45 | 2.44 | 2.41 | 2.34 | 2.27 | 2.19 | 2.16 | 1.08 | 1.01 |
| 118 | 2.56 | 2.59 | 2.57 | 2.54 | 2.47 | 2.41 | 2.32 | 2.31 | 1.18 | 1.10 |
| 119 | 2.71 | 2.73 | 2.71 | 2.68 | 2.62 | 2.55 | 2.47 | 2.46 | 1.28 | 1.20 |
| 120 | 2.87 | 2.87 | 2.85 | 2.82 | 2.77 | 2.70 | 2.61 | 2.60 | 1.40 | 1.31 |
| 121 | 3.03 | 3.01 | 3.00 | 2.97 | 2.93 | 2.83 | 2.76 | 2.74 | 1.51 | 1.42 |
| 122 | 3.20 | 3.19 | 3.16 | 3.13 | 3.08 | 2.97 | 2.90 | 2.89 | 1.63 | 1.54 |
| 123 | 3.39 | 3.38 | 3.32 | 3.32 | 3.24 | 3.13 | 3.05 | 3.03 | 1.74 | 1.65 |
| 124 | 3.58 | 3.60 | 3.50 | 3.50 | 3.40 | 3.29 | 3.20 | 3.19 | 1.86 | 1.78 |
| 125 | 3.77 | 3.81 | 3.77 | 3.71 | 3.58 | 3.47 | 3.37 | 3.36 | 1.98 | 1.91 |
| 126 | 3.96 | 4.02 | 4.02 | 3.92 | 3.77 | 3.66 | 3.55 | 3.52 | 2.11 | 2.03 |
| 127 | 4.16 | 4.23 | 4.24 | 4.13 | 3.97 | 3.85 | 3.74 | 3.69 | 2.24 | 2.15 |
| 128 | 4.38 | 4.45 | 4.46 | 4.35 | 4.17 | 4.03 | 3.93 | 3.88 | 2.36 | 2.28 |
| 129 | 4.60 | 4.67 | 4.66 | 4.56 | 4.38 | 4.23 | 4.12 | 4.07 | 2.51 | 2.43 |
| 130 | 4.82 | 4.89 | 4.87 | 4.77 | 4.58 | 4.43 | 4.33 | 4.28 | 2.67 | 2.58 |
| 131 | 5.04 | 5.12 | 5.08 | 4.97 | 4.78 | 4.64 | 4.54 | 4.50 | 2.84 | 2.74 |
| 132 | 5.24 | 5.33 | 5.28 | 5.18 | 4.96 | 4.83 | 4.74 | 4.70 | 3.01 | 2.92 |
| 133 | 5.45 | 5.54 | 5.49 | 5.36 | 5.14 | 5.02 | 4.92 | 4.87 | 3.20 | 3.11 |
| 134 | 5.66 | 5.72 | 5.68 | 5.54 | 5.32 | 5.20 | 5.09 | 5.03 | 3.37 | 3.29 |
| 135 | 5.85 | 5.89 | 5.84 | 5.71 | 5.50 | 5.38 | 5.25 | 5.20 | 3.54 | 3.46 |
| 136 | 6.04 | 6.07 | 5.99 | 5.87 | 5.69 | 5.57 | 5.41 | 5.37 | 3.69 | 3.63 |
| 137 | 6.24 | 6.25 | 6.14 | 6.02 | 5.88 | 5.76 | 5.56 | 5.55 | 3.86 | 3.81 |
| 138 | 6.42 | 6.43 | 6.29 | 6.17 | 6.06 | 5.96 | 5.75 | 5.73 | 4.02 | 4.00 |
| 139 | 6.60 | 6.59 | 6.47 | 6.33 | 6.24 | 6.15 | 5.95 | 5.96 | 4.19 | 4.17 |
| 140 | 6.78 | 6.78 | 6.66 | 6.50 | 6.41 | 6.33 | 6.15 | 6.19 | 4.34 | 4.34 |
| 141 | 6.98 | 6.96 | 6.85 | 6.67 | 6.61 | 6.53 | 6.34 | 6.38 | 4.48 | 4.52 |
| 142 | 7.18 | 7.14 | 7.05 | 6.81 | 6.83 | 6.72 | 6.54 | 6.58 | 4.64 | 4.71 |
| 143 | 7.40 | 7.33 | 7.25 | 6.95 | 7.04 | 6.90 | 6.74 | 6.78 | 4.81 | 4.89 |
| 144 | 7.61 | 7.53 | 7.46 | 7.12 | 7.21 | 7.08 | 6.93 | 6.99 | 4.97 | 5.06 |
| 145 | 7.81 | 7.74 | 7.66 | 7.33 | 7.38 | 7.28 | 7.13 | 7.24 | 5.11 | 5.22 |
| 146 | 8.00 | 7.94 | 7.86 | 7.60 | 7.57 | 7.47 | 7.31 | 7.45 | 5.25 | 5.37 |
| 147 | 8.19 | 8.14 | 8.06 | 7.88 | 7.74 | 7.68 | 7.53 | 7.60 | 5.38 | 5.51 |
| 148 | 8.35 | 8.33 | 8.26 | 8.11 | 7.89 | 7.90 | 7.70 | 7.78 | 5.51 | 5.63 |

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**CANDELA TABULATION - (Cont.)**

|     |       |       |      |      |      |      |      |      |      |      |
|-----|-------|-------|------|------|------|------|------|------|------|------|
| 149 | 8.52  | 8.51  | 8.43 | 8.29 | 8.04 | 8.12 | 7.97 | 7.97 | 5.63 | 5.76 |
| 150 | 8.69  | 8.67  | 8.50 | 8.45 | 8.20 | 8.34 | 8.23 | 8.16 | 5.78 | 5.90 |
| 151 | 8.86  | 8.80  | 8.58 | 8.58 | 8.33 | 8.53 | 8.48 | 8.35 | 5.94 | 6.05 |
| 152 | 9.00  | 8.95  | 8.74 | 8.71 | 8.50 | 8.67 | 8.73 | 8.53 | 6.08 | 6.20 |
| 153 | 9.15  | 9.12  | 8.88 | 8.87 | 8.73 | 8.80 | 8.96 | 8.67 | 6.19 | 6.34 |
| 154 | 9.31  | 9.26  | 8.97 | 9.02 | 8.94 | 8.94 | 9.20 | 8.81 | 6.30 | 6.46 |
| 155 | 9.45  | 9.37  | 9.05 | 9.16 | 9.10 | 9.09 | 9.41 | 8.97 | 6.40 | 6.58 |
| 156 | 9.58  | 9.46  | 9.11 | 9.24 | 9.24 | 9.20 | 9.61 | 9.18 | 6.50 | 6.69 |
| 157 | 9.71  | 9.57  | 9.20 | 9.29 | 9.32 | 9.30 | 9.76 | 9.38 | 6.63 | 6.80 |
| 158 | 9.82  | 9.70  | 9.29 | 9.37 | 9.40 | 9.39 | 9.87 | 9.58 | 6.75 | 6.91 |
| 159 | 9.93  | 9.83  | 9.38 | 9.48 | 9.47 | 9.53 | 9.93 | 9.76 | 6.86 | 7.01 |
| 160 | 10.02 | 9.92  | 9.47 | 9.56 | 9.55 | 9.67 | 9.96 | 9.86 | 6.92 | 7.05 |
| 161 | 10.08 | 9.96  | 9.51 | 9.56 | 9.59 | 9.78 | 9.96 | 9.90 | 6.94 | 7.08 |
| 162 | 10.12 | 9.96  | 9.53 | 9.52 | 9.61 | 9.79 | 9.94 | 9.90 | 6.96 | 7.10 |
| 163 | 10.17 | 9.96  | 9.60 | 9.51 | 9.60 | 9.77 | 9.93 | 9.90 | 7.01 | 7.17 |
| 164 | 10.23 | 9.98  | 9.70 | 9.57 | 9.63 | 9.77 | 9.92 | 9.92 | 7.11 | 7.30 |
| 165 | 10.32 | 10.04 | 9.77 | 9.68 | 9.64 | 9.77 | 9.94 | 9.94 | 7.22 | 7.43 |
| 166 | 10.36 | 10.08 | 9.82 | 9.77 | 9.65 | 9.80 | 9.95 | 9.92 | 7.37 | 7.57 |
| 167 | 10.37 | 10.04 | 9.82 | 9.72 | 9.61 | 9.74 | 9.94 | 9.89 | 7.52 | 7.72 |
| 168 | 10.33 | 9.96  | 9.80 | 9.65 | 9.49 | 9.67 | 9.92 | 9.86 | 7.63 | 7.81 |
| 169 | 10.24 | 9.81  | 9.71 | 9.64 | 9.39 | 9.66 | 9.83 | 9.74 | 7.73 | 7.89 |
| 170 | 10.15 | 9.70  | 9.63 | 9.61 | 9.21 | 9.54 | 9.74 | 9.65 | 7.72 | 7.88 |
| 171 | 10.10 | 9.64  | 9.54 | 9.64 | 9.18 | 9.55 | 9.73 | 9.69 | 7.71 | 7.89 |
| 172 | 10.06 | 9.65  | 9.37 | 9.65 | 9.21 | 9.57 | 9.72 | 9.72 | 7.81 | 7.98 |
| 173 | 9.99  | 9.59  | 9.20 | 9.59 | 9.17 | 9.52 | 9.66 | 9.69 | 8.01 | 8.17 |
| 174 | 9.93  | 9.53  | 9.12 | 9.49 | 9.10 | 9.50 | 9.61 | 9.69 | 8.37 | 8.50 |
| 175 | 9.88  | 9.43  | 9.12 | 9.35 | 9.06 | 9.46 | 9.54 | 9.67 | 8.76 | 8.88 |
| 176 | 9.81  | 9.38  | 9.15 | 9.20 | 8.99 | 9.33 | 9.38 | 9.54 | 8.97 | 9.13 |
| 177 | 9.66  | 9.29  | 9.11 | 9.03 | 8.93 | 9.21 | 9.22 | 9.39 | 9.15 | 9.38 |
| 178 | 9.44  | 9.17  | 8.97 | 8.76 | 8.81 | 9.02 | 8.99 | 9.17 | 9.21 | 9.44 |
| 179 | 9.34  | 9.10  | 8.96 | 8.65 | 8.77 | 8.90 | 8.91 | 9.10 | 9.26 | 9.45 |
| 180 | 8.94  | 8.94  | 8.94 | 8.94 | 8.94 | 8.94 | 8.94 | 8.94 | 8.94 | 8.94 |

| Vert.<br>Angles | Horizontal Angles |            |            |            |            |
|-----------------|-------------------|------------|------------|------------|------------|
|                 | <u>300</u>        | <u>315</u> | <u>330</u> | <u>345</u> | <u>360</u> |
| 0               | 10686.04          | 10686.04   | 10686.04   | 10686.04   | 10686.04   |
| 1               | 10705.23          | 10699.06   | 10701.12   | 10700.97   | 10705.46   |
| 2               | 10719.12          | 10711.79   | 10715.15   | 10718.90   | 10724.90   |
| 3               | 10728.68          | 10725.10   | 10734.36   | 10735.97   | 10739.68   |
| 4               | 10741.68          | 10744.35   | 10754.72   | 10753.36   | 10750.25   |
| 5               | 10757.27          | 10762.43   | 10769.07   | 10775.02   | 10766.87   |
| 6               | 10772.30          | 10775.34   | 10786.78   | 10793.17   | 10789.65   |
| 7               | 10788.61          | 10797.91   | 10802.24   | 10813.24   | 10806.87   |
| 8               | 10801.86          | 10811.31   | 10821.49   | 10833.32   | 10826.53   |
| 9               | 10819.51          | 10825.25   | 10835.84   | 10852.08   | 10845.24   |
| 10              | 10832.55          | 10846.60   | 10859.13   | 10870.41   | 10862.73   |
| 11              | 10849.80          | 10864.95   | 10877.02   | 10889.23   | 10883.19   |
| 12              | 10866.28          | 10889.17   | 10898.10   | 10913.18   | 10905.78   |
| 13              | 10886.11          | 10903.28   | 10918.53   | 10928.04   | 10925.62   |
| 14              | 10905.73          | 10923.48   | 10935.81   | 10952.33   | 10947.34   |
| 15              | 10924.16          | 10942.32   | 10957.53   | 10972.98   | 10967.60   |
| 16              | 10941.54          | 10964.18   | 10974.13   | 10996.80   | 10988.02   |
| 17              | 10957.01          | 10987.29   | 11001.56   | 11013.15   | 11009.38   |
| 18              | 10977.26          | 11008.55   | 11020.48   | 11031.04   | 11029.60   |
| 19              | 10995.17          | 11029.02   | 11040.61   | 11055.29   | 11050.29   |

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**CANDELA TABULATION - (Cont.)**

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| 20 | 11018.87 | 11049.21 | 11060.24 | 11072.52 | 11066.53 |
| 21 | 11036.40 | 11065.86 | 11077.04 | 11091.58 | 11086.26 |
| 22 | 11050.22 | 11081.59 | 11093.38 | 11105.70 | 11103.87 |
| 23 | 11063.91 | 11094.39 | 11108.78 | 11119.02 | 11117.26 |
| 24 | 11077.59 | 11108.89 | 11121.00 | 11129.88 | 11131.16 |
| 25 | 11084.08 | 11117.04 | 11127.78 | 11142.47 | 11139.94 |
| 26 | 11093.63 | 11122.48 | 11132.48 | 11150.94 | 11146.01 |
| 27 | 11092.16 | 11126.10 | 11138.92 | 11147.23 | 11145.88 |
| 28 | 11095.79 | 11122.61 | 11132.02 | 11144.17 | 11143.15 |
| 29 | 11085.43 | 11110.56 | 11124.21 | 11129.73 | 11127.30 |
| 30 | 11067.72 | 11093.09 | 11098.89 | 11109.13 | 11105.30 |
| 31 | 11043.72 | 11068.73 | 11073.76 | 11075.99 | 11074.26 |
| 32 | 11009.44 | 11031.89 | 11032.36 | 11031.31 | 11029.72 |
| 33 | 10963.79 | 10981.06 | 10975.59 | 10984.80 | 10976.06 |
| 34 | 10904.37 | 10920.26 | 10910.52 | 10909.93 | 10905.03 |
| 35 | 10829.97 | 10844.60 | 10827.18 | 10831.02 | 10814.66 |
| 36 | 10739.13 | 10747.48 | 10728.46 | 10720.07 | 10708.78 |
| 37 | 10623.36 | 10627.06 | 10603.46 | 10591.76 | 10577.12 |
| 38 | 10487.01 | 10484.55 | 10454.36 | 10444.78 | 10422.93 |
| 39 | 10323.14 | 10314.89 | 10280.74 | 10274.67 | 10240.98 |
| 40 | 10128.72 | 10118.34 | 10073.43 | 10066.31 | 10028.43 |
| 41 | 9901.86  | 9884.36  | 9833.70  | 9823.76  | 9778.72  |
| 42 | 9642.02  | 9614.80  | 9556.25  | 9543.10  | 9495.41  |
| 43 | 9334.18  | 9304.06  | 9241.73  | 9229.92  | 9168.50  |
| 44 | 8991.37  | 8952.89  | 8881.45  | 8872.13  | 8808.14  |
| 45 | 8597.11  | 8562.78  | 8489.44  | 8485.78  | 8403.11  |
| 46 | 8167.98  | 8125.78  | 8049.99  | 8044.21  | 7962.85  |
| 47 | 7690.47  | 7646.70  | 7568.98  | 7568.58  | 7472.96  |
| 48 | 7192.57  | 7141.64  | 7062.79  | 7060.11  | 6960.60  |
| 49 | 6653.91  | 6604.37  | 6527.26  | 6523.06  | 6412.09  |
| 50 | 6102.15  | 6053.04  | 5973.73  | 5959.52  | 5853.82  |
| 51 | 5544.39  | 5497.58  | 5416.62  | 5392.44  | 5295.33  |
| 52 | 4985.24  | 4938.80  | 4859.16  | 4831.00  | 4731.54  |
| 53 | 4432.67  | 4395.64  | 4308.92  | 4269.59  | 4180.77  |
| 54 | 3885.88  | 3851.26  | 3763.59  | 3717.18  | 3631.68  |
| 55 | 3353.48  | 3322.35  | 3226.30  | 3178.41  | 3104.34  |
| 56 | 2825.42  | 2793.28  | 2694.38  | 2664.30  | 2575.98  |
| 57 | 2313.64  | 2328.17  | 2191.98  | 2225.72  | 2107.23  |
| 58 | 1834.93  | 1863.05  | 1731.36  | 1787.13  | 1656.11  |
| 59 | 1406.35  | 1399.87  | 1335.28  | 1348.55  | 1285.18  |
| 60 | 1053.33  | 1067.55  | 1017.33  | 1030.35  | 975.03   |
| 61 | 849.65   | 797.75   | 828.00   | 779.42   | 792.27   |
| 62 | 649.15   | 606.04   | 641.02   | 590.87   | 611.16   |
| 63 | 448.65   | 473.96   | 454.03   | 458.48   | 430.04   |
| 64 | 364.43   | 387.19   | 368.72   | 370.85   | 348.30   |
| 65 | 310.90   | 328.52   | 313.98   | 311.69   | 295.15   |
| 66 | 276.59   | 291.33   | 279.42   | 274.95   | 264.83   |
| 67 | 255.63   | 266.15   | 257.66   | 252.26   | 245.33   |
| 68 | 241.31   | 248.37   | 242.51   | 236.89   | 231.46   |
| 69 | 230.42   | 234.18   | 230.25   | 225.57   | 220.07   |
| 70 | 220.98   | 222.79   | 219.52   | 216.36   | 210.53   |
| 71 | 211.49   | 212.00   | 210.29   | 207.15   | 201.82   |
| 72 | 201.25   | 201.21   | 200.19   | 197.95   | 193.14   |
| 73 | 190.25   | 190.42   | 188.78   | 189.42   | 183.21   |
| 74 | 179.40   | 179.10   | 177.45   | 179.64   | 171.41   |
| 75 | 167.04   | 167.08   | 164.86   | 167.13   | 159.22   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBRMSR-LED175DMV40.IES**

**CANDELA TABULATION - (Cont.)**

|     |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|
| 76  | 154.24 | 154.58 | 152.85 | 153.73 | 147.69 |
| 77  | 142.13 | 141.87 | 141.00 | 140.84 | 136.45 |
| 78  | 130.06 | 129.62 | 129.32 | 128.70 | 125.03 |
| 79  | 118.80 | 118.13 | 118.33 | 117.23 | 114.02 |
| 80  | 107.69 | 106.79 | 107.48 | 106.45 | 102.81 |
| 81  | 96.31  | 95.98  | 96.63  | 95.69  | 92.52  |
| 82  | 84.92  | 85.35  | 85.80  | 84.99  | 81.88  |
| 83  | 73.53  | 74.71  | 74.97  | 74.45  | 71.23  |
| 84  | 62.14  | 63.28  | 64.14  | 63.19  | 60.58  |
| 85  | 48.27  | 50.92  | 53.11  | 52.32  | 50.06  |
| 86  | 34.04  | 39.01  | 41.15  | 41.30  | 38.84  |
| 87  | 19.79  | 26.73  | 27.54  | 27.91  | 26.92  |
| 88  | 8.30   | 14.44  | 14.34  | 14.51  | 6.49   |
| 89  | 4.13   | 2.47   | 9.55   | 1.14   | 3.08   |
| 90  | 0.10   | 0.05   | 4.84   | 0.05   | 0.13   |
| 91  | 0.05   | 0.04   | 0.12   | 0.04   | 0.05   |
| 92  | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   |
| 93  | 0.05   | 0.05   | 0.06   | 0.05   | 0.06   |
| 94  | 0.06   | 0.06   | 0.07   | 0.06   | 0.07   |
| 95  | 0.07   | 0.07   | 0.07   | 0.07   | 0.08   |
| 96  | 0.08   | 0.08   | 0.09   | 0.09   | 0.09   |
| 97  | 0.10   | 0.10   | 0.10   | 0.10   | 0.11   |
| 98  | 0.12   | 0.12   | 0.12   | 0.12   | 0.13   |
| 99  | 0.13   | 0.13   | 0.14   | 0.14   | 0.15   |
| 100 | 0.16   | 0.16   | 0.17   | 0.16   | 0.17   |
| 101 | 0.18   | 0.18   | 0.19   | 0.19   | 0.20   |
| 102 | 0.21   | 0.21   | 0.22   | 0.22   | 0.23   |
| 103 | 0.24   | 0.24   | 0.25   | 0.25   | 0.26   |
| 104 | 0.27   | 0.27   | 0.28   | 0.28   | 0.29   |
| 105 | 0.30   | 0.30   | 0.32   | 0.32   | 0.33   |
| 106 | 0.34   | 0.34   | 0.36   | 0.36   | 0.38   |
| 107 | 0.38   | 0.39   | 0.41   | 0.41   | 0.43   |
| 108 | 0.43   | 0.44   | 0.46   | 0.47   | 0.48   |
| 109 | 0.48   | 0.49   | 0.52   | 0.53   | 0.54   |
| 110 | 0.54   | 0.54   | 0.58   | 0.59   | 0.61   |
| 111 | 0.60   | 0.60   | 0.64   | 0.66   | 0.68   |
| 112 | 0.67   | 0.67   | 0.71   | 0.74   | 0.76   |
| 113 | 0.74   | 0.74   | 0.77   | 0.82   | 0.85   |
| 114 | 0.81   | 0.82   | 0.84   | 0.90   | 0.93   |
| 115 | 0.90   | 0.91   | 0.93   | 0.99   | 1.02   |
| 116 | 0.99   | 1.01   | 1.03   | 1.08   | 1.12   |
| 117 | 1.08   | 1.10   | 1.14   | 1.17   | 1.22   |
| 118 | 1.18   | 1.20   | 1.26   | 1.27   | 1.32   |
| 119 | 1.28   | 1.31   | 1.37   | 1.37   | 1.42   |
| 120 | 1.39   | 1.41   | 1.49   | 1.47   | 1.53   |
| 121 | 1.51   | 1.52   | 1.62   | 1.56   | 1.65   |
| 122 | 1.62   | 1.64   | 1.74   | 1.66   | 1.76   |
| 123 | 1.74   | 1.75   | 1.87   | 1.74   | 1.88   |
| 124 | 1.85   | 1.87   | 2.00   | 1.84   | 2.00   |
| 125 | 1.97   | 1.99   | 2.13   | 1.96   | 2.11   |
| 126 | 2.10   | 2.10   | 2.26   | 2.10   | 2.24   |
| 127 | 2.24   | 2.22   | 2.40   | 2.24   | 2.36   |
| 128 | 2.39   | 2.34   | 2.55   | 2.40   | 2.48   |
| 129 | 2.54   | 2.46   | 2.69   | 2.57   | 2.61   |
| 130 | 2.70   | 2.58   | 2.84   | 2.75   | 2.75   |
| 131 | 2.85   | 2.70   | 2.97   | 2.92   | 2.89   |

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

|     |      |      |      |      |      |
|-----|------|------|------|------|------|
| 132 | 2.98 | 2.83 | 3.09 | 3.10 | 3.04 |
| 133 | 3.12 | 2.95 | 3.21 | 3.27 | 3.21 |
| 134 | 3.26 | 3.07 | 3.32 | 3.43 | 3.34 |
| 135 | 3.40 | 3.21 | 3.43 | 3.56 | 3.47 |
| 136 | 3.57 | 3.39 | 3.57 | 3.69 | 3.60 |
| 137 | 3.72 | 3.60 | 3.72 | 3.85 | 3.75 |
| 138 | 3.87 | 3.84 | 3.91 | 4.02 | 3.91 |
| 139 | 4.02 | 4.01 | 4.09 | 4.19 | 4.07 |
| 140 | 4.20 | 4.15 | 4.27 | 4.35 | 4.24 |
| 141 | 4.38 | 4.27 | 4.45 | 4.51 | 4.41 |
| 142 | 4.56 | 4.40 | 4.63 | 4.66 | 4.57 |
| 143 | 4.72 | 4.54 | 4.80 | 4.79 | 4.71 |
| 144 | 4.90 | 4.70 | 4.95 | 4.92 | 4.84 |
| 145 | 5.09 | 4.88 | 5.04 | 5.04 | 5.01 |
| 146 | 5.26 | 5.04 | 5.12 | 5.17 | 5.15 |
| 147 | 5.40 | 5.19 | 5.19 | 5.29 | 5.25 |
| 148 | 5.54 | 5.34 | 5.24 | 5.41 | 5.31 |
| 149 | 5.70 | 5.46 | 5.30 | 5.51 | 5.36 |
| 150 | 5.87 | 5.57 | 5.37 | 5.60 | 5.42 |
| 151 | 6.06 | 5.69 | 5.47 | 5.69 | 5.51 |
| 152 | 6.23 | 5.80 | 5.59 | 5.77 | 5.60 |
| 153 | 6.39 | 5.89 | 5.71 | 5.88 | 5.68 |
| 154 | 6.52 | 5.96 | 5.84 | 5.98 | 5.73 |
| 155 | 6.64 | 6.05 | 5.95 | 6.07 | 5.74 |
| 156 | 6.75 | 6.15 | 6.00 | 6.13 | 5.76 |
| 157 | 6.83 | 6.24 | 6.05 | 6.15 | 5.80 |
| 158 | 6.88 | 6.35 | 6.11 | 6.17 | 5.83 |
| 159 | 6.90 | 6.47 | 6.18 | 6.19 | 5.89 |
| 160 | 6.92 | 6.59 | 6.26 | 6.20 | 5.94 |
| 161 | 6.94 | 6.69 | 6.36 | 6.24 | 5.97 |
| 162 | 6.98 | 6.79 | 6.46 | 6.31 | 6.04 |
| 163 | 7.08 | 6.91 | 6.57 | 6.45 | 6.18 |
| 164 | 7.20 | 7.07 | 6.71 | 6.63 | 6.38 |
| 165 | 7.35 | 7.24 | 6.88 | 6.83 | 6.62 |
| 166 | 7.51 | 7.43 | 7.09 | 7.03 | 6.82 |
| 167 | 7.64 | 7.61 | 7.24 | 7.18 | 6.97 |
| 168 | 7.79 | 7.71 | 7.32 | 7.23 | 7.08 |
| 169 | 7.89 | 7.83 | 7.31 | 7.28 | 7.20 |
| 170 | 7.91 | 7.87 | 7.29 | 7.31 | 7.26 |
| 171 | 7.90 | 7.87 | 7.32 | 7.36 | 7.27 |
| 172 | 7.99 | 7.97 | 7.47 | 7.47 | 7.34 |
| 173 | 8.17 | 8.16 | 7.66 | 7.62 | 7.44 |
| 174 | 8.52 | 8.49 | 8.02 | 7.91 | 7.67 |
| 175 | 8.85 | 8.82 | 8.37 | 8.21 | 7.90 |
| 176 | 9.08 | 9.02 | 8.60 | 8.48 | 8.10 |
| 177 | 9.26 | 9.20 | 8.79 | 8.70 | 8.30 |
| 178 | 9.36 | 9.30 | 8.93 | 8.83 | 8.45 |
| 179 | 9.45 | 9.39 | 9.07 | 8.94 | 8.70 |
| 180 | 8.94 | 8.94 | 8.94 | 8.94 | 8.94 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBRMSR-LED175DMV40.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp  | %Fixt  |
|---------|----------|--------|--------|
| 0-20    | 4081.89  | 15.90  | 15.90  |
| 0-30    | 9125.7   | 35.60  | 35.60  |
| 0-40    | 15785.19 | 61.60  | 61.60  |
| 0-60    | 25029.33 | 97.60  | 97.60  |
| 0-80    | 25568.04 | 99.70  | 99.70  |
| 0-90    | 25616.29 | 99.90  | 99.90  |
| 10-90   | 24593.71 | 95.90  | 95.90  |
| 20-40   | 11703.3  | 45.70  | 45.70  |
| 20-50   | 18091.59 | 70.60  | 70.60  |
| 40-70   | 9618.99  | 37.50  | 37.50  |
| 60-80   | 538.71   | 2.10   | 2.10   |
| 70-80   | 163.87   | 0.60   | 0.60   |
| 80-90   | 48.25    | 0.20   | 0.20   |
| 90-110  | 0.99     | 0.00   | 0.00   |
| 90-120  | 2.53     | 0.00   | 0.00   |
| 90-130  | 5.06     | 0.00   | 0.00   |
| 90-150  | 12.43    | 0.00   | 0.00   |
| 90-180  | 19.24    | 0.10   | 0.10   |
| 110-180 | 18.25    | 0.10   | 0.10   |
| 0-180   | 25635.53 | 100.00 | 100.00 |

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 1022.59 |
| 10-20   | 3059.3  |
| 20-30   | 5043.81 |
| 30-40   | 6659.48 |
| 40-50   | 6388.29 |
| 50-60   | 2855.85 |
| 60-70   | 374.85  |
| 70-80   | 163.87  |
| 80-90   | 48.25   |
| 90-100  | 0.24    |
| 100-110 | 0.75    |
| 110-120 | 1.53    |
| 120-130 | 2.53    |
| 130-140 | 3.47    |
| 140-150 | 3.89    |
| 150-160 | 3.55    |
| 160-170 | 2.41    |
| 170-180 | 0.84    |

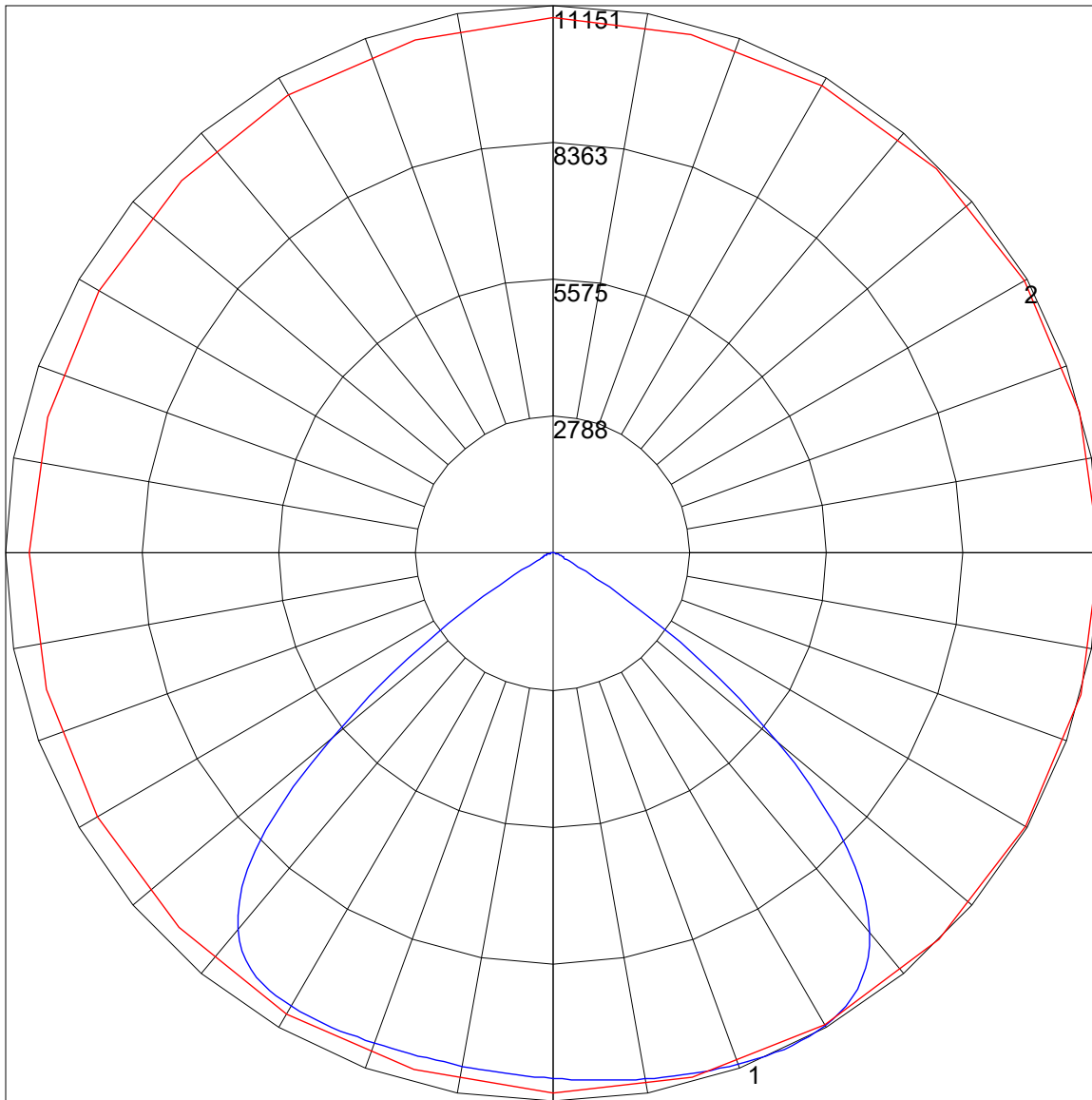
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBRMSR-LED175DMV40.IES**

**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  | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 92  | 90  |
| 2  | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  |
| 3  | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |
| 4  | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 64  | 62  |
| 5  | 83  | 72  | 64  | 58  | 81  | 71  | 64  | 58  | 69  | 62  | 58  | 67  | 61  | 57  | 65  | 60  | 56  | 55  |
| 6  | 77  | 65  | 57  | 52  | 75  | 64  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 54  | 50  | 49  |
| 7  | 71  | 59  | 52  | 46  | 70  | 59  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 43  |
| 8  | 67  | 54  | 47  | 41  | 65  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |
| 9  | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |
| 10 | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 37  | 33  | 32  |

POLAR GRAPH



Maximum Candela = 11150.94 Located At Horizontal Angle = 345, Vertical Angle = 26  
# 1 - Vertical Plane Through Horizontal Angles (345 - 165) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (26) (Through Max. Cd.)