

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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 20250122010  
[TESTLAB]  
[TESTDATE] 2025-01-23  
[ISSUEDATE] 2025-01-23 14:13:27  
[LAMPPOSITION] 0,0  
[OTHER]  
[MANUFAC] BEGHELLI  
[LUMINAIRE] CRVRSEHO  
[LAMP] LED  
[LAMPCAT] EMERGENCY LIGHTING  
[OTHER]

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

**CHARACTERISTICS**

|                                 |                |
|---------------------------------|----------------|
| Lumens Per Lamp                 | 948.9 (1 lamp) |
| Total Lamp Lumens               | 948.9          |
| Luminaire Lumens                | 949            |
| Total Luminaire Efficiency      | 100 %          |
| Luminaire Efficacy Rating (LER) | 190            |
| Total Luminaire Watts           | 5              |
| Ballast Factor                  | 1.00           |
| CIE Type                        | Direct         |
| Spacing Criterion (0-180)       | 0.50           |
| Spacing Criterion (90-270)      | 2.60           |
| Spacing Criterion (Diagonal)    | 0.88           |
| Basic Luminous Shape            | Rectangular    |
| Luminous Length (0-180)         | 0.09 m         |
| Luminous Width (90-270)         | 0.05 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                  | 24798            | 46998             | 412539            |
| 55                  | 21664            | 37329             | 328802            |
| 65                  | 18296            | 28314             | 146705            |
| 75                  | 16590            | 19714             | 49632             |
| 85                  | 20593            | 24008             | 21256             |

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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  | 471.08     | 471.08     | 471.08     | 471.08     | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      |
| 2.5  | 445.12     | 445.25     | 445.43     | 445.67     | 445.95      | 446.28      | 446.66      | 447.08      | 447.56      | 448.12      |
| 5.0  | 413.20     | 413.42     | 413.80     | 414.33     | 415.02      | 415.84      | 416.75      | 417.82      | 419.04      | 420.44      |
| 7.5  | 363.43     | 363.70     | 364.28     | 365.19     | 366.34      | 367.80      | 369.58      | 371.59      | 373.88      | 376.47      |
| 10.0 | 307.71     | 307.92     | 308.55     | 309.59     | 311.06      | 312.94      | 315.23      | 317.92      | 320.99      | 324.43      |
| 12.5 | 276.75     | 276.83     | 277.19     | 277.88     | 278.86      | 280.15      | 282.81      | 283.61      | 285.81      | 288.32      |
| 15.0 | 245.80     | 245.80     | 246.19     | 246.95     | 248.12      | 249.65      | 251.55      | 253.89      | 256.60      | 259.69      |
| 17.5 | 214.83     | 214.75     | 215.15     | 216.02     | 217.34      | 219.16      | 221.49      | 224.30      | 227.60      | 231.24      |
| 20.0 | 183.87     | 183.67     | 184.08     | 185.06     | 186.59      | 188.72      | 191.50      | 194.89      | 198.71      | 203.09      |
| 22.5 | 169.51     | 169.20     | 169.33     | 169.83     | 170.66      | 172.09      | 173.72      | 175.85      | 178.36      | 181.24      |
| 25.0 | 155.15     | 154.92     | 155.11     | 155.68     | 156.67      | 158.18      | 160.12      | 162.49      | 165.26      | 168.41      |
| 27.5 | 140.78     | 140.63     | 140.89     | 141.55     | 142.68      | 144.32      | 146.44      | 149.02      | 152.37      | 155.36      |
| 30.0 | 126.41     | 126.35     | 126.68     | 127.40     | 128.64      | 130.42      | 132.68      | 135.37      | 138.49      | 142.48      |
| 32.5 | 118.42     | 118.44     | 118.70     | 119.16     | 120.07      | 121.34      | 122.99      | 124.94      | 127.19      | 129.78      |
| 35.0 | 110.43     | 110.61     | 110.97     | 111.50     | 112.42      | 113.73      | 115.67      | 117.51      | 119.81      | 122.51      |
| 37.5 | 102.44     | 102.80     | 103.26     | 103.81     | 104.73      | 106.07      | 107.79      | 109.88      | 112.30      | 114.96      |
| 40.0 | 94.44      | 95.00      | 95.53      | 96.10      | 96.99       | 98.32       | 100.09      | 102.18      | 104.58      | 107.08      |
| 42.5 | 86.45      | 87.21      | 87.81      | 88.35      | 89.40       | 90.52       | 92.29       | 94.36       | 96.59       | 98.91       |
| 45.0 | 78.94      | 79.84      | 80.41      | 80.88      | 81.58       | 82.78       | 84.40       | 86.36       | 88.33       | 90.36       |
| 47.5 | 72.83      | 73.67      | 74.13      | 74.52      | 75.18       | 76.26       | 77.65       | 79.17       | 80.62       | 82.24       |
| 50.0 | 67.20      | 67.91      | 68.26      | 68.64      | 69.36       | 70.40       | 71.70       | 73.03       | 74.22       | 75.57       |
| 52.5 | 61.57      | 62.10      | 62.39      | 62.76      | 63.71       | 64.47       | 65.64       | 66.80       | 67.86       | 69.25       |
| 55.0 | 55.94      | 56.29      | 56.51      | 56.89      | 57.64       | 58.49       | 59.66       | 60.50       | 61.45       | 62.83       |
| 57.5 | 50.31      | 50.47      | 50.63      | 51.01      | 51.73       | 52.44       | 53.30       | 54.15       | 54.99       | 56.30       |
| 60.0 | 44.67      | 44.65      | 44.76      | 45.14      | 45.78       | 46.33       | 47.03       | 47.73       | 48.47       | 49.64       |
| 62.5 | 39.74      | 39.74      | 39.83      | 40.15      | 40.64       | 41.05       | 41.55       | 42.00       | 42.51       | 43.23       |
| 65.0 | 34.81      | 34.84      | 34.95      | 35.23      | 35.64       | 36.02       | 36.48       | 36.91       | 37.45       | 38.09       |
| 67.5 | 29.88      | 29.95      | 30.06      | 30.31      | 30.63       | 30.99       | 31.41       | 31.84       | 32.35       | 32.91       |
| 70.0 | 24.95      | 25.05      | 25.18      | 25.37      | 25.62       | 25.94       | 26.34       | 26.79       | 27.23       | 27.72       |
| 72.5 | 22.14      | 22.22      | 22.30      | 22.41      | 22.53       | 22.71       | 22.91       | 23.14       | 23.31       | 23.47       |
| 75.0 | 19.33      | 19.40      | 19.48      | 19.58      | 19.70       | 19.85       | 20.03       | 20.23       | 20.47       | 20.51       |
| 77.5 | 16.51      | 16.58      | 16.65      | 16.74      | 16.86       | 16.99       | 17.15       | 17.31       | 17.42       | 17.54       |
| 80.0 | 13.70      | 13.77      | 13.83      | 13.91      | 14.01       | 14.13       | 14.26       | 14.39       | 14.48       | 14.58       |
| 82.5 | 10.89      | 10.96      | 11.01      | 11.08      | 11.17       | 11.26       | 11.37       | 11.47       | 11.56       | 11.61       |
| 85.0 | 8.08       | 8.14       | 8.19       | 8.25       | 8.33        | 8.39        | 8.48        | 8.54        | 8.58        | 8.64        |
| 87.5 | 5.27       | 5.33       | 5.36       | 5.41       | 5.48        | 5.53        | 5.59        | 5.62        | 5.64        | 5.67        |
| 90.0 | 2.46       | 2.51       | 2.54       | 2.58       | 2.63        | 2.66        | 2.69        | 2.69        | 2.69        | 2.71        |

| Vert.<br>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             | 471.08            | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      |
| 2.5             | 448.61            | 449.17      | 449.78      | 450.43      | 451.63      | 451.85      | 452.62      | 453.43      | 454.28      | 455.16      |
| 5.0             | 421.86            | 423.41      | 425.09      | 426.91      | 430.50      | 430.75      | 432.06      | 433.45      | 434.92      | 436.47      |
| 7.5             | 379.30            | 382.36      | 385.70      | 389.29      | 393.07      | 396.88      | 399.96      | 403.20      | 406.56      | 410.07      |
| 10.0            | 328.25            | 332.42      | 336.92      | 341.73      | 346.84      | 352.23      | 357.86      | 363.75      | 369.90      | 376.30      |
| 12.5            | 291.11            | 294.18      | 297.50      | 301.06      | 304.88      | 309.18      | 316.38      | 323.87      | 331.59      | 339.52      |
| 15.0            | 263.10            | 266.83      | 270.92      | 275.32      | 280.03      | 285.01      | 290.20      | 295.64      | 301.30      | 307.17      |
| 17.5            | 235.34            | 239.86      | 244.75      | 249.98      | 255.57      | 261.87      | 267.48      | 274.01      | 280.87      | 288.37      |
| 20.0            | 207.94            | 213.22      | 218.92      | 224.98      | 231.44      | 238.32      | 245.64      | 253.42      | 261.67      | 270.57      |
| 22.5            | 184.46            | 187.99      | 193.45      | 200.51      | 207.98      | 215.91      | 224.39      | 233.55      | 243.41      | 254.10      |
| 25.0            | 171.93            | 175.83      | 180.16      | 184.81      | 189.77      | 195.45      | 203.22      | 213.89      | 225.62      | 238.45      |
| 27.5            | 159.15            | 163.41      | 168.04      | 173.07      | 178.61      | 184.79      | 191.84      | 199.90      | 209.11      | 223.50      |
| 30.0            | 146.10            | 150.59      | 155.47      | 160.85      | 166.90      | 173.92      | 182.14      | 191.58      | 202.41      | 214.69      |

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**CANDELA TABULATION - (Cont.)**

|      |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 32.5 | 132.70 | 137.29 | 142.31 | 147.92 | 154.55 | 162.28 | 171.60 | 182.38 | 194.93 | 209.21 |
| 35.0 | 125.43 | 128.55 | 131.93 | 135.87 | 140.98 | 149.43 | 159.71 | 171.75 | 186.18 | 202.20 |
| 37.5 | 117.86 | 120.85 | 124.41 | 128.68 | 133.92 | 140.37 | 147.84 | 158.84 | 174.22 | 192.30 |
| 40.0 | 109.76 | 112.87 | 116.68 | 121.34 | 127.23 | 134.18 | 142.32 | 151.74 | 162.45 | 177.64 |
| 42.5 | 101.45 | 104.64 | 108.64 | 113.70 | 119.88 | 127.22 | 135.72 | 145.84 | 157.06 | 170.10 |
| 45.0 | 92.88  | 96.11  | 100.25 | 105.43 | 111.70 | 118.96 | 127.61 | 137.78 | 149.61 | 163.90 |
| 47.5 | 84.43  | 87.58  | 91.32  | 96.27  | 102.21 | 109.30 | 117.75 | 127.85 | 140.01 | 154.65 |
| 50.0 | 77.48  | 79.96  | 83.00  | 87.01  | 91.73  | 97.92  | 105.85 | 115.60 | 127.67 | 141.92 |
| 52.5 | 71.15  | 73.52  | 76.34  | 79.55  | 83.14  | 87.14  | 93.15  | 100.86 | 112.32 | 125.89 |
| 55.0 | 64.64  | 66.81  | 69.39  | 72.35  | 75.67  | 79.52  | 83.79  | 89.07  | 96.39  | 106.07 |
| 57.5 | 57.92  | 59.84  | 62.13  | 64.75  | 67.78  | 71.24  | 75.48  | 80.42  | 85.75  | 91.67  |
| 60.0 | 50.97  | 52.54  | 54.48  | 56.73  | 59.43  | 62.57  | 66.51  | 70.94  | 75.91  | 81.42  |
| 62.5 | 43.88  | 45.01  | 46.52  | 48.37  | 50.63  | 53.37  | 56.81  | 60.74  | 65.27  | 70.29  |
| 65.0 | 38.67  | 39.37  | 40.08  | 40.98  | 41.89  | 43.64  | 46.49  | 49.90  | 53.87  | 58.38  |
| 67.5 | 33.44  | 34.07  | 34.71  | 35.48  | 36.31  | 37.34  | 38.49  | 39.74  | 41.81  | 45.85  |
| 70.0 | 28.20  | 28.74  | 29.28  | 29.94  | 30.79  | 31.67  | 32.72  | 33.86  | 35.10  | 36.54  |
| 72.5 | 23.63  | 23.74  | 23.81  | 24.37  | 25.08  | 25.95  | 26.90  | 27.91  | 29.06  | 30.37  |
| 75.0 | 20.64  | 20.73  | 20.79  | 20.92  | 21.13  | 21.39  | 21.66  | 21.96  | 22.97  | 24.12  |
| 77.5 | 17.65  | 17.73  | 17.79  | 17.91  | 18.11  | 18.34  | 18.56  | 18.80  | 19.10  | 19.42  |
| 80.0 | 14.66  | 14.73  | 14.80  | 14.90  | 15.08  | 15.28  | 15.45  | 15.64  | 15.89  | 16.13  |
| 82.5 | 11.68  | 11.75  | 11.82  | 11.91  | 12.06  | 12.22  | 12.35  | 12.49  | 12.66  | 12.83  |
| 85.0 | 8.70   | 8.76   | 8.84   | 8.98   | 9.04   | 9.15   | 9.23   | 9.33   | 9.42   | 9.55   |
| 87.5 | 5.71   | 5.77   | 5.86   | 5.90   | 6.02   | 6.08   | 6.12   | 6.17   | 6.16   | 6.26   |
| 90.0 | 2.73   | 2.79   | 2.87   | 2.90   | 2.98   | 3.01   | 3.01   | 3.01   | 2.92   | 2.97   |

| Vert.<br>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             | 471.08            | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      | 471.08      |
| 2.5             | 456.13            | 457.03      | 457.96      | 458.91      | 459.89      | 460.90      | 461.93      | 462.99      | 464.06      | 465.15      |
| 5.0             | 438.09            | 439.75      | 441.49      | 443.25      | 445.07      | 446.94      | 448.88      | 450.86      | 452.90      | 454.98      |
| 7.5             | 413.72            | 417.44      | 421.42      | 426.18      | 428.28      | 430.95      | 433.68      | 436.35      | 439.38      | 442.32      |
| 10.0            | 382.91            | 389.64      | 395.49      | 400.68      | 406.00      | 411.45      | 417.02      | 421.99      | 425.67      | 429.43      |
| 12.5            | 347.67            | 356.01      | 364.56      | 373.31      | 382.24      | 390.59      | 397.54      | 404.60      | 411.77      | 418.03      |
| 15.0            | 315.06            | 325.13      | 335.54      | 346.23      | 357.14      | 368.41      | 379.91      | 390.84      | 399.70      | 408.77      |
| 17.5            | 295.74            | 303.79      | 312.26      | 323.59      | 336.85      | 350.58      | 364.48      | 378.69      | 393.24      | 405.09      |
| 20.0            | 279.95            | 289.94      | 300.54      | 311.73      | 323.47      | 338.34      | 355.28      | 372.82      | 390.44      | 408.14      |
| 22.5            | 265.57            | 278.06      | 291.35      | 305.48      | 320.32      | 335.67      | 352.23      | 373.52      | 396.29      | 417.28      |
| 25.0            | 252.55            | 267.72      | 283.95      | 302.28      | 320.24      | 339.97      | 361.94      | 384.81      | 410.62      | 437.01      |
| 27.5            | 239.70            | 258.02      | 278.12      | 301.26      | 324.22      | 349.44      | 376.25      | 404.21      | 434.77      | 464.71      |
| 30.0            | 228.39            | 247.91      | 272.20      | 299.54      | 327.92      | 359.15      | 393.43      | 427.87      | 464.53      | 503.36      |
| 32.5            | 225.55            | 244.02      | 265.44      | 296.69      | 331.02      | 369.30      | 410.59      | 454.73      | 501.53      | 550.45      |
| 35.0            | 221.14            | 242.76      | 267.09      | 295.44      | 331.08      | 377.24      | 427.68      | 481.95      | 539.94      | 600.75      |
| 37.5            | 213.42            | 237.94      | 267.15      | 298.28      | 334.38      | 379.03      | 438.90      | 504.20      | 574.46      | 649.32      |
| 40.0            | 200.56            | 227.79      | 259.74      | 296.17      | 337.27      | 383.01      | 439.16      | 516.04      | 599.89      | 688.41      |
| 42.5            | 185.19            | 210.28      | 244.82      | 284.98      | 331.04      | 382.33      | 438.84      | 509.70      | 604.90      | 706.63      |
| 45.0            | 179.62            | 197.53      | 219.36      | 262.59      | 312.42      | 368.28      | 429.58      | 495.79      | 584.95      | 695.66      |
| 47.5            | 170.80            | 189.39      | 210.40      | 232.74      | 279.48      | 338.76      | 404.40      | 474.06      | 546.74      | 654.21      |
| 50.0            | 158.63            | 177.07      | 198.11      | 221.03      | 245.47      | 293.01      | 360.60      | 431.82      | 505.65      | 585.19      |
| 52.5            | 141.86            | 160.38      | 181.04      | 203.56      | 227.64      | 252.82      | 301.52      | 373.18      | 446.34      | 517.48      |
| 55.0            | 121.28            | 138.96      | 158.83      | 180.71      | 203.96      | 228.42      | 253.98      | 304.56      | 375.42      | 441.57      |
| 57.5            | 100.27            | 113.09      | 132.09      | 153.01      | 175.51      | 199.49      | 224.18      | 248.35      | 298.78      | 359.95      |
| 60.0            | 87.61             | 93.57       | 104.31      | 121.43      | 143.75      | 167.00      | 190.09      | 212.58      | 234.05      | 281.53      |
| 62.5            | 75.72             | 81.61       | 87.48       | 94.47       | 109.50      | 131.96      | 153.98      | 175.02      | 194.74      | 213.28      |
| 65.0            | 63.59             | 68.69       | 74.48       | 81.01       | 87.64       | 98.41       | 117.59      | 137.59      | 155.84      | 171.82      |
| 67.5            | 50.46             | 55.36       | 61.11       | 67.16       | 73.29       | 79.47       | 86.27       | 101.86      | 118.80      | 131.12      |

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**CANDELA TABULATION - (Cont.)**

|             |       |       |       |       |       |       |       |       |       |       |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>70.0</b> | 37.99 | 41.70 | 47.11 | 52.74 | 58.53 | 64.07 | 69.62 | 74.83 | 85.22 | 95.87 |
| <b>72.5</b> | 31.71 | 33.43 | 35.26 | 37.97 | 43.43 | 48.81 | 54.10 | 58.99 | 63.06 | 67.33 |
| <b>75.0</b> | 25.40 | 26.93 | 28.49 | 30.10 | 31.70 | 33.63 | 38.93 | 43.69 | 46.91 | 47.44 |
| <b>77.5</b> | 19.83 | 20.25 | 21.56 | 22.90 | 24.53 | 25.97 | 27.67 | 29.00 | 31.20 | 34.58 |
| <b>80.0</b> | 16.50 | 16.80 | 17.06 | 17.27 | 17.49 | 18.57 | 20.08 | 20.69 | 20.84 | 23.51 |
| <b>82.5</b> | 13.14 | 13.35 | 13.57 | 13.79 | 14.00 | 14.38 | 14.39 | 13.84 | 15.24 | 15.49 |
| <b>85.0</b> | 9.76  | 9.91  | 10.12 | 10.34 | 10.58 | 10.77 | 10.67 | 10.73 | 10.99 | 10.71 |
| <b>87.5</b> | 6.39  | 6.47  | 6.70  | 6.90  | 7.05  | 7.21  | 7.16  | 7.32  | 7.37  | 7.38  |
| <b>90.0</b> | 3.01  | 3.03  | 3.28  | 3.47  | 3.58  | 3.66  | 3.76  | 3.82  | 3.90  | 3.93  |

**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>  | 471.08             | 471.08             | 471.08             | 471.08             | 471.08             | 471.08             | 471.08             | 471.08             | 471.08             | 471.08             |
| <b>2.5</b>  | 466.26             | 467.39             | 468.52             | 469.67             | 470.82             | 471.97             | 473.14             | 471.56             | 469.99             | 468.42             |
| <b>5.0</b>  | 457.10             | 459.26             | 461.34             | 463.62             | 465.91             | 468.21             | 470.51             | 467.44             | 464.38             | 461.32             |
| <b>7.5</b>  | 445.33             | 448.39             | 451.51             | 454.68             | 457.90             | 461.16             | 464.47             | 460.11             | 455.80             | 451.53             |
| <b>10.0</b> | 433.28             | 437.20             | 441.19             | 445.04             | 449.27             | 453.52             | 457.77             | 452.33             | 446.89             | 441.48             |
| <b>12.5</b> | 422.95             | 427.90             | 432.89             | 437.93             | 443.00             | 448.10             | 453.22             | 446.95             | 440.70             | 434.46             |
| <b>15.0</b> | 417.73             | 423.80             | 429.88             | 435.97             | 442.08             | 448.05             | 454.04             | 446.97             | 439.91             | 432.66             |
| <b>17.5</b> | 416.20             | 426.92             | 434.52             | 441.98             | 449.28             | 456.42             | 463.37             | 455.27             | 447.00             | 438.54             |
| <b>20.0</b> | 423.21             | 436.96             | 448.68             | 457.70             | 467.13             | 474.98             | 482.85             | 473.80             | 464.78             | 454.17             |
| <b>22.5</b> | 439.34             | 457.63             | 473.68             | 485.63             | 497.01             | 506.57             | 516.05             | 505.44             | 494.13             | 482.15             |
| <b>25.0</b> | 463.37             | 488.56             | 508.71             | 525.57             | 538.41             | 550.84             | 561.33             | 550.05             | 536.79             | 523.08             |
| <b>27.5</b> | 496.87             | 528.47             | 555.18             | 578.56             | 594.43             | 608.83             | 621.74             | 608.58             | 593.92             | 577.79             |
| <b>30.0</b> | 542.38             | 581.42             | 618.43             | 647.59             | 668.42             | 686.48             | 700.33             | 686.34             | 668.14             | 647.14             |
| <b>32.5</b> | 599.92             | 648.44             | 698.47             | 735.23             | 764.21             | 785.17             | 803.15             | 786.55             | 766.88             | 738.41             |
| <b>35.0</b> | 664.26             | 725.35             | 786.21             | 839.83             | 879.45             | 907.79             | 928.51             | 910.18             | 884.10             | 845.44             |
| <b>37.5</b> | 727.50             | 806.38             | 881.59             | 953.43             | 1006.64            | 1040.23            | 1069.68            | 1043.08            | 1014.26            | 962.29             |
| <b>40.0</b> | 781.59             | 878.12             | 967.52             | 1054.81            | 1121.88            | 1167.41            | 1199.78            | 1170.19            | 1130.28            | 1063.60            |
| <b>42.5</b> | 812.79             | 921.93             | 1026.10            | 1122.13            | 1199.79            | 1247.36            | 1286.26            | 1248.90            | 1202.74            | 1124.18            |
| <b>45.0</b> | 810.87             | 927.47             | 1044.64            | 1140.65            | 1224.91            | 1275.16            | 1313.25            | 1271.57            | 1218.34            | 1131.24            |
| <b>47.5</b> | 771.39             | 889.69             | 1006.28            | 1103.41            | 1185.25            | 1233.03            | 1268.95            | 1226.33            | 1172.41            | 1085.05            |
| <b>50.0</b> | 698.87             | 810.32             | 920.06             | 1015.35            | 1090.08            | 1130.67            | 1165.49            | 1121.83            | 1071.10            | 990.39             |
| <b>52.5</b> | 605.37             | 706.36             | 803.74             | 895.82             | 953.14             | 991.36             | 1017.73            | 981.19             | 933.02             | 866.01             |
| <b>55.0</b> | 505.18             | 590.22             | 672.02             | 750.51             | 797.29             | 824.32             | 849.03             | 814.21             | 775.56             | 717.66             |
| <b>57.5</b> | 415.30             | 472.92             | 536.60             | 596.59             | 639.79             | 666.93             | 679.79             | 656.17             | 620.19             | 570.15             |
| <b>60.0</b> | 328.95             | 369.14             | 415.27             | 459.73             | 495.86             | 509.70             | 523.91             | 500.84             | 478.51             | 436.94             |
| <b>62.5</b> | 251.74             | 282.55             | 310.67             | 342.43             | 370.11             | 383.13             | 389.97             | 375.12             | 356.21             | 323.26             |
| <b>65.0</b> | 187.67             | 209.19             | 226.74             | 245.14             | 266.33             | 273.15             | 279.12             | 267.70             | 255.58             | 230.74             |
| <b>67.5</b> | 138.60             | 149.98             | 163.04             | 174.32             | 184.93             | 190.97             | 194.53             | 186.83             | 176.46             | 162.18             |
| <b>70.0</b> | 102.61             | 107.17             | 114.77             | 121.28             | 126.96             | 129.97             | 131.60             | 126.14             | 119.71             | 110.81             |
| <b>72.5</b> | 72.71              | 76.85              | 78.27              | 82.31              | 84.87              | 87.03              | 87.28              | 83.57              | 79.05              | 74.50              |
| <b>75.0</b> | 50.50              | 53.76              | 54.54              | 55.67              | 56.74              | 58.21              | 57.83              | 55.76              | 52.43              | 50.14              |
| <b>77.5</b> | 36.30              | 36.32              | 37.56              | 37.93              | 38.39              | 39.09              | 38.87              | 37.22              | 35.24              | 34.13              |
| <b>80.0</b> | 23.72              | 25.44              | 25.65              | 25.52              | 25.26              | 25.31              | 25.07              | 23.88              | 23.05              | 22.10              |
| <b>82.5</b> | 16.02              | 17.31              | 17.28              | 16.80              | 16.13              | 15.79              | 15.57              | 14.59              | 14.32              | 13.48              |
| <b>85.0</b> | 11.09              | 11.05              | 10.86              | 10.27              | 9.32               | 8.72               | 8.34               | 7.86               | 7.41               | 7.34               |
| <b>87.5</b> | 7.41               | 7.11               | 6.55               | 5.77               | 4.78               | 3.44               | 2.94               | 3.11               | 3.23               | 3.28               |
| <b>90.0</b> | 3.93               | 3.87               | 3.85               | 3.65               | 2.92               | 1.64               | 0.10               | 0.67               | 1.76               | 1.88               |

**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> | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              |
| <b>2.5</b> | 466.86              | 465.32              | 463.79              | 462.28              | 460.78              | 459.32              | 457.87              | 456.46              | 455.08              | 453.73              |

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

**CANDELA TABULATION - (Cont.)**

|             |         |        |        |        |        |        |        |        |        |        |
|-------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>5.0</b>  | 458.29  | 455.45 | 452.53 | 449.66 | 446.83 | 442.90 | 441.35 | 438.69 | 436.10 | 433.58 |
| <b>7.5</b>  | 447.30  | 443.14 | 438.37 | 434.97 | 430.98 | 426.93 | 423.21 | 419.44 | 415.76 | 411.99 |
| <b>10.0</b> | 436.39  | 431.18 | 426.02 | 420.92 | 415.87 | 410.89 | 404.98 | 398.68 | 392.50 | 386.43 |
| <b>12.5</b> | 428.23  | 422.02 | 415.81 | 409.67 | 402.38 | 394.42 | 386.52 | 378.70 | 369.83 | 360.54 |
| <b>15.0</b> | 425.47  | 418.24 | 410.63 | 401.35 | 391.60 | 382.02 | 370.77 | 359.07 | 347.60 | 336.22 |
| <b>17.5</b> | 429.91  | 420.15 | 409.75 | 398.07 | 385.76 | 371.21 | 356.95 | 342.94 | 329.06 | 315.55 |
| <b>20.0</b> | 443.97  | 431.39 | 417.01 | 401.45 | 383.61 | 364.63 | 348.35 | 331.39 | 316.39 | 304.30 |
| <b>22.5</b> | 469.01  | 452.23 | 433.29 | 411.07 | 388.79 | 367.07 | 344.36 | 328.54 | 312.60 | 297.32 |
| <b>25.0</b> | 505.40  | 484.46 | 458.63 | 431.01 | 403.58 | 376.05 | 353.67 | 332.06 | 311.80 | 292.44 |
| <b>27.5</b> | 553.97  | 526.60 | 494.19 | 461.25 | 428.70 | 398.10 | 368.71 | 340.75 | 314.08 | 289.94 |
| <b>30.0</b> | 617.62  | 579.96 | 540.13 | 500.38 | 459.89 | 421.40 | 385.28 | 349.50 | 316.91 | 287.38 |
| <b>32.5</b> | 701.10  | 648.82 | 598.66 | 547.13 | 495.76 | 446.68 | 400.49 | 357.51 | 317.71 | 282.02 |
| <b>35.0</b> | 791.24  | 728.84 | 665.73 | 598.46 | 534.13 | 472.83 | 415.69 | 360.79 | 314.75 | 278.35 |
| <b>37.5</b> | 889.26  | 812.68 | 730.19 | 647.14 | 567.93 | 493.52 | 423.94 | 362.32 | 316.39 | 280.03 |
| <b>40.0</b> | 974.08  | 882.57 | 780.95 | 682.70 | 589.11 | 501.39 | 420.72 | 363.79 | 317.89 | 276.94 |
| <b>42.5</b> | 1025.56 | 917.95 | 804.70 | 694.59 | 589.03 | 489.28 | 416.19 | 360.17 | 309.10 | 263.52 |
| <b>45.0</b> | 1032.98 | 912.28 | 792.16 | 673.97 | 560.21 | 469.73 | 404.15 | 342.98 | 287.09 | 238.10 |
| <b>47.5</b> | 983.54  | 863.57 | 742.45 | 622.32 | 512.66 | 441.87 | 374.17 | 309.42 | 250.61 | 204.70 |
| <b>50.0</b> | 890.41  | 777.68 | 663.01 | 545.86 | 467.97 | 396.40 | 326.57 | 260.30 | 213.89 | 191.02 |
| <b>52.5</b> | 769.88  | 669.10 | 564.99 | 477.15 | 407.42 | 336.88 | 266.77 | 219.18 | 195.21 | 172.65 |
| <b>55.0</b> | 634.14  | 552.47 | 463.45 | 401.94 | 337.16 | 269.28 | 220.01 | 195.33 | 171.71 | 149.47 |
| <b>57.5</b> | 506.40  | 438.21 | 379.14 | 324.93 | 265.16 | 215.26 | 191.06 | 166.55 | 144.13 | 122.29 |
| <b>60.0</b> | 388.38  | 338.60 | 298.80 | 252.09 | 204.64 | 181.23 | 157.83 | 135.47 | 113.28 | 91.80  |
| <b>62.5</b> | 287.87  | 256.50 | 225.67 | 187.73 | 167.43 | 145.17 | 122.25 | 99.95  | 79.53  | 65.76  |
| <b>65.0</b> | 208.11  | 187.10 | 162.34 | 146.31 | 130.26 | 109.88 | 86.84  | 66.39  | 58.23  | 55.61  |
| <b>67.5</b> | 148.06  | 132.90 | 118.22 | 107.49 | 94.30  | 75.99  | 58.56  | 51.21  | 46.88  | 44.13  |
| <b>70.0</b> | 102.89  | 93.28  | 86.25  | 76.46  | 63.32  | 52.21  | 46.87  | 41.34  | 36.24  | 32.88  |
| <b>72.5</b> | 69.54   | 65.68  | 59.92  | 51.09  | 44.81  | 40.82  | 36.18  | 30.92  | 25.96  | 22.12  |
| <b>75.0</b> | 47.67   | 44.56  | 38.97  | 36.10  | 33.08  | 29.52  | 25.15  | 20.24  | 18.10  | 16.76  |
| <b>77.5</b> | 31.87   | 28.98  | 27.18  | 25.23  | 22.37  | 18.44  | 16.94  | 15.31  | 13.62  | 12.23  |
| <b>80.0</b> | 20.36   | 19.39  | 17.93  | 15.59  | 14.34  | 12.97  | 11.57  | 10.21  | 9.28   | 8.89   |
| <b>82.5</b> | 12.87   | 11.88  | 10.90  | 9.88   | 8.71   | 8.02   | 7.78   | 7.58   | 7.32   | 7.03   |
| <b>85.0</b> | 7.08    | 6.54   | 6.12   | 6.08   | 5.96   | 5.85   | 5.68   | 5.53   | 5.33   | 5.13   |
| <b>87.5</b> | 3.64    | 3.85   | 3.91   | 3.88   | 3.78   | 3.70   | 3.59   | 3.47   | 3.33   | 3.21   |
| <b>90.0</b> | 1.88    | 1.85   | 1.77   | 1.70   | 1.61   | 1.56   | 1.49   | 1.41   | 1.32   | 1.28   |

**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>  | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       |
| <b>2.5</b>  | 452.42       | 451.14       | 449.91       | 448.60       | 447.40       | 446.25       | 443.93       | 443.87       | 443.10       | 442.16       |
| <b>5.0</b>  | 431.14       | 428.73       | 426.38       | 424.09       | 421.89       | 419.79       | 417.78       | 415.44       | 413.62       | 411.39       |
| <b>7.5</b>  | 407.45       | 402.98       | 398.74       | 394.59       | 390.59       | 386.76       | 383.07       | 378.88       | 375.62       | 371.80       |
| <b>10.0</b> | 380.49       | 374.16       | 367.27       | 360.54       | 354.03       | 347.78       | 341.78       | 335.26       | 330.60       | 325.47       |
| <b>12.5</b> | 351.40       | 342.46       | 333.77       | 325.27       | 317.04       | 309.11       | 301.42       | 293.57       | 289.82       | 286.06       |
| <b>15.0</b> | 325.08       | 314.18       | 303.56       | 295.18       | 288.96       | 282.98       | 277.37       | 272.02       | 267.05       | 262.37       |
| <b>17.5</b> | 303.89       | 295.02       | 286.61       | 278.56       | 270.92       | 263.69       | 256.87       | 250.51       | 244.63       | 238.98       |
| <b>20.0</b> | 292.80       | 281.88       | 271.57       | 261.89       | 252.73       | 244.27       | 236.31       | 228.86       | 221.95       | 215.53       |
| <b>22.5</b> | 282.94       | 269.40       | 256.68       | 245.08       | 234.28       | 224.35       | 215.13       | 206.70       | 198.93       | 191.73       |
| <b>25.0</b> | 274.51       | 257.88       | 242.47       | 228.28       | 215.33       | 203.63       | 193.15       | 185.70       | 180.52       | 176.02       |
| <b>27.5</b> | 267.05       | 246.73       | 228.12       | 211.60       | 197.50       | 189.01       | 181.52       | 175.11       | 169.50       | 164.40       |
| <b>30.0</b> | 259.40       | 234.67       | 215.24       | 202.18       | 190.72       | 180.71       | 172.14       | 164.57       | 158.06       | 152.26       |
| <b>32.5</b> | 249.16       | 229.14       | 211.57       | 196.22       | 182.79       | 171.29       | 161.51       | 153.32       | 146.28       | 140.08       |
| <b>35.0</b> | 250.37       | 226.61       | 205.86       | 187.97       | 173.13       | 159.98       | 149.22       | 140.41       | 133.16       | 128.28       |
| <b>37.5</b> | 248.88       | 220.12       | 196.45       | 176.51       | 159.82       | 145.97       | 136.24       | 129.72       | 124.28       | 119.60       |
| <b>40.0</b> | 240.30       | 208.51       | 181.66       | 159.75       | 145.98       | 136.63       | 128.49       | 121.41       | 115.43       | 110.47       |

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

**CANDELA TABULATION - (Cont.)**

|      |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 42.5 | 223.64 | 189.41 | 164.77 | 150.02 | 137.85 | 127.87 | 119.57 | 112.34 | 106.11 | 100.91 |
| 45.0 | 195.57 | 174.76 | 157.64 | 142.10 | 128.35 | 117.43 | 108.91 | 102.07 | 96.06  | 90.81  |
| 47.5 | 183.95 | 164.78 | 147.30 | 131.84 | 117.56 | 105.57 | 96.53  | 90.02  | 84.82  | 79.99  |
| 50.0 | 169.86 | 150.29 | 133.57 | 117.91 | 104.16 | 92.28  | 82.71  | 76.16  | 72.39  | 69.42  |
| 52.5 | 151.50 | 132.39 | 115.04 | 100.69 | 87.91  | 76.63  | 69.31  | 63.97  | 62.65  | 61.49  |
| 55.0 | 128.91 | 110.19 | 93.82  | 79.65  | 71.61  | 65.41  | 61.01  | 57.40  | 55.24  | 54.16  |
| 57.5 | 102.25 | 84.31  | 72.84  | 66.08  | 62.01  | 58.29  | 54.37  | 50.80  | 48.11  | 46.69  |
| 60.0 | 75.39  | 66.23  | 61.80  | 57.66  | 53.92  | 50.26  | 47.12  | 43.71  | 41.13  | 39.42  |
| 62.5 | 61.24  | 56.85  | 52.72  | 48.82  | 45.29  | 42.11  | 39.22  | 36.45  | 34.03  | 32.22  |
| 65.0 | 51.26  | 47.02  | 43.14  | 39.55  | 36.28  | 33.40  | 30.83  | 28.59  | 27.06  | 26.17  |
| 67.5 | 40.83  | 36.87  | 33.20  | 29.88  | 26.91  | 25.37  | 24.47  | 23.63  | 22.79  | 21.95  |
| 70.0 | 29.92  | 26.37  | 23.77  | 22.72  | 21.73  | 20.82  | 20.00  | 19.21  | 18.45  | 17.73  |
| 72.5 | 20.92  | 20.00  | 19.00  | 18.02  | 17.04  | 16.23  | 15.48  | 14.76  | 14.09  | 13.45  |
| 75.0 | 15.93  | 15.12  | 14.21  | 13.29  | 12.42  | 11.65  | 11.58  | 11.50  | 11.40  | 11.27  |
| 77.5 | 11.11  | 10.20  | 10.18  | 10.10  | 9.98   | 9.88   | 9.82   | 9.75   | 9.66   | 9.54   |
| 80.0 | 8.51   | 8.37   | 8.35   | 8.29   | 8.20   | 8.10   | 8.05   | 8.00   | 7.91   | 7.81   |
| 82.5 | 6.72   | 6.56   | 6.54   | 6.49   | 6.42   | 6.34   | 6.29   | 6.24   | 6.17   | 6.09   |
| 85.0 | 4.90   | 4.78   | 4.74   | 4.70   | 4.64   | 4.59   | 4.54   | 4.50   | 4.37   | 4.36   |
| 87.5 | 3.08   | 2.99   | 2.95   | 2.91   | 2.86   | 2.83   | 2.80   | 2.76   | 2.69   | 2.63   |
| 90.0 | 1.24   | 1.21   | 1.16   | 1.12   | 1.09   | 1.07   | 1.05   | 1.01   | 0.95   | 0.91   |

**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  | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       |
| 2.5  | 441.27       | 440.44       | 439.67       | 439.00       | 438.25       | 437.62       | 437.05       | 436.55       | 436.11       | 435.74       |
| 5.0  | 409.29       | 407.35       | 405.55       | 403.94       | 402.31       | 400.91       | 399.67       | 398.60       | 397.64       | 396.82       |
| 7.5  | 368.13       | 364.72       | 361.58       | 358.68       | 356.02       | 353.64       | 351.58       | 349.70       | 348.17       | 346.95       |
| 10.0 | 320.64       | 316.13       | 311.96       | 308.14       | 304.69       | 301.62       | 298.86       | 296.50       | 294.54       | 291.15       |
| 12.5 | 282.55       | 279.33       | 276.39       | 273.72       | 271.32       | 268.46       | 267.32       | 265.68       | 264.28       | 263.17       |
| 15.0 | 258.05       | 254.04       | 250.38       | 245.96       | 244.10       | 241.48       | 239.19       | 237.22       | 235.54       | 234.20       |
| 17.5 | 233.80       | 229.00       | 224.01       | 220.63       | 217.10       | 213.90       | 211.17       | 208.81       | 206.83       | 205.22       |
| 20.0 | 209.59       | 204.09       | 198.99       | 194.34       | 190.16       | 186.52       | 183.21       | 180.48       | 178.15       | 176.28       |
| 22.5 | 185.08       | 180.01       | 176.74       | 173.68       | 170.91       | 168.47       | 166.37       | 164.57       | 163.09       | 161.87       |
| 25.0 | 171.78       | 167.96       | 164.42       | 161.18       | 158.20       | 155.42       | 153.27       | 151.31       | 149.71       | 148.41       |
| 27.5 | 159.82       | 155.65       | 151.82       | 148.38       | 145.27       | 142.49       | 140.06       | 138.00       | 136.28       | 134.93       |
| 30.0 | 147.50       | 143.02       | 138.97       | 135.32       | 132.08       | 129.21       | 126.73       | 124.60       | 122.80       | 121.39       |
| 32.5 | 134.79       | 130.07       | 125.84       | 123.00       | 120.49       | 118.29       | 116.40       | 114.75       | 113.32       | 112.14       |
| 35.0 | 124.11       | 120.47       | 117.21       | 114.32       | 111.78       | 109.60       | 107.63       | 105.97       | 104.53       | 103.29       |
| 37.5 | 115.37       | 111.59       | 108.35       | 105.39       | 102.86       | 100.67       | 98.76        | 97.13        | 95.71        | 94.43        |
| 40.0 | 106.21       | 102.39       | 99.07        | 96.21        | 93.72        | 91.61        | 89.79        | 88.20        | 86.83        | 85.57        |
| 42.5 | 96.58        | 92.84        | 89.54        | 86.74        | 84.37        | 82.37        | 80.69        | 79.20        | 77.89        | 76.69        |
| 45.0 | 86.50        | 82.88        | 79.70        | 77.03        | 74.81        | 72.95        | 71.45        | 70.28        | 69.21        | 68.18        |
| 47.5 | 75.91        | 72.56        | 70.07        | 67.93        | 66.17        | 64.79        | 63.84        | 62.95        | 62.08        | 61.21        |
| 50.0 | 66.13        | 64.36        | 62.52        | 60.85        | 59.47        | 58.32        | 57.36        | 56.51        | 55.70        | 54.89        |
| 52.5 | 59.56        | 57.62        | 55.86        | 54.28        | 52.92        | 51.80        | 50.85        | 50.05        | 49.31        | 48.56        |
| 55.0 | 52.57        | 50.76        | 49.09        | 47.61        | 46.32        | 45.24        | 44.32        | 43.56        | 42.87        | 42.17        |
| 57.5 | 45.46        | 43.78        | 42.22        | 40.85        | 39.65        | 38.64        | 37.77        | 37.04        | 36.41        | 35.79        |
| 60.0 | 38.15        | 36.67        | 35.24        | 33.99        | 32.92        | 32.00        | 31.20        | 30.51        | 29.94        | 29.39        |
| 62.5 | 30.83        | 29.46        | 28.31        | 27.72        | 27.21        | 26.74        | 26.30        | 25.79        | 25.57        | 25.24        |
| 65.0 | 25.47        | 24.83        | 24.20        | 23.63        | 23.13        | 22.59        | 22.26        | 21.88        | 21.57        | 21.29        |
| 67.5 | 21.27        | 20.64        | 20.07        | 19.53        | 19.05        | 18.60        | 18.21        | 17.86        | 17.58        | 17.33        |
| 70.0 | 17.06        | 16.43        | 15.90        | 15.42        | 14.95        | 14.53        | 14.16        | 13.83        | 13.57        | 13.36        |
| 72.5 | 12.82        | 12.61        | 12.49        | 12.37        | 12.23        | 12.08        | 11.90        | 11.82        | 11.73        | 11.65        |
| 75.0 | 11.13        | 10.94        | 10.82        | 10.72        | 10.59        | 10.47        | 10.35        | 10.25        | 10.17        | 10.10        |
| 77.5 | 9.43         | 9.24         | 9.16         | 9.08         | 8.97         | 8.85         | 8.75         | 8.66         | 8.60         | 8.54         |

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**CANDELA TABULATION - (Cont.)**

|             |      |      |      |      |      |      |      |      |      |      |
|-------------|------|------|------|------|------|------|------|------|------|------|
| <b>80.0</b> | 7.72 | 7.58 | 7.49 | 7.42 | 7.34 | 7.24 | 7.16 | 7.08 | 7.02 | 6.93 |
| <b>82.5</b> | 6.01 | 5.90 | 5.81 | 5.76 | 5.69 | 5.62 | 5.56 | 5.50 | 5.46 | 5.43 |
| <b>85.0</b> | 4.29 | 4.21 | 4.14 | 4.10 | 4.06 | 4.00 | 3.96 | 3.91 | 3.89 | 3.87 |
| <b>87.5</b> | 2.58 | 2.52 | 2.47 | 2.44 | 2.43 | 2.38 | 2.36 | 2.33 | 2.31 | 2.30 |
| <b>90.0</b> | 0.86 | 0.83 | 0.79 | 0.78 | 0.78 | 0.76 | 0.76 | 0.75 | 0.75 | 0.75 |

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|-------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                         | <b><u>175.0</u></b>      | <b><u>177.5</u></b> | <b><u>180.0</u></b> | <b><u>182.5</u></b> | <b><u>185.0</u></b> | <b><u>187.5</u></b> | <b><u>190.0</u></b> | <b><u>192.5</u></b> | <b><u>195.0</u></b> | <b><u>197.5</u></b> |
| <b>0.0</b>              | 471.08                   | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              |
| <b>2.5</b>              | 435.44                   | 435.21              | 435.04              | 434.89              | 434.81              | 434.79              | 434.84              | 434.97              | 435.15              | 435.41              |
| <b>5.0</b>              | 396.17                   | 395.70              | 395.39              | 395.18              | 395.14              | 395.27              | 395.56              | 396.14              | 396.56              | 397.27              |
| <b>7.5</b>              | 345.94                   | 345.25              | 344.88              | 344.77              | 344.96              | 345.46              | 346.19              | 347.21              | 348.51              | 350.06              |
| <b>10.0</b>             | 291.02                   | 290.88              | 290.74              | 290.67              | 290.59              | 290.51              | 293.58              | 295.23              | 297.24              | 299.61              |
| <b>12.5</b>             | 262.33                   | 261.78              | 261.51              | 261.58              | 261.93              | 262.54              | 263.43              | 264.59              | 266.01              | 266.99              |
| <b>15.0</b>             | 233.19                   | 232.56              | 232.28              | 232.40              | 232.86              | 233.65              | 234.79              | 236.26              | 238.05              | 240.12              |
| <b>17.5</b>             | 204.05                   | 203.33              | 203.04              | 203.23              | 203.83              | 204.83              | 206.25              | 208.08              | 210.24              | 212.76              |
| <b>20.0</b>             | 174.08                   | 173.88              | 173.80              | 173.88              | 174.02              | 176.09              | 177.84              | 180.03              | 182.57              | 185.65              |
| <b>22.5</b>             | 160.98                   | 160.41              | 160.23              | 160.39              | 160.83              | 161.61              | 162.71              | 164.05              | 165.68              | 167.59              |
| <b>25.0</b>             | 147.44                   | 146.85              | 146.65              | 146.80              | 147.25              | 148.05              | 149.19              | 150.59              | 152.31              | 154.15              |
| <b>27.5</b>             | 133.91                   | 133.30              | 133.08              | 133.22              | 133.66              | 134.46              | 135.59              | 137.03              | 138.78              | 140.79              |
| <b>30.0</b>             | 119.85                   | 119.61              | 119.50              | 119.49              | 119.50              | 120.81              | 121.91              | 123.35              | 125.08              | 127.06              |
| <b>32.5</b>             | 111.24                   | 110.60              | 110.29              | 110.23              | 110.42              | 110.92              | 111.67              | 112.68              | 113.93              | 115.31              |
| <b>35.0</b>             | 102.30                   | 101.52              | 101.07              | 100.87              | 100.93              | 101.33              | 101.98              | 102.92              | 104.08              | 105.45              |
| <b>37.5</b>             | 93.39                    | 92.46               | 91.85               | 91.50               | 91.42               | 91.69               | 92.19               | 93.06               | 94.14               | 95.51               |
| <b>40.0</b>             | 84.47                    | 83.30               | 82.63               | 82.02               | 81.87               | 81.99               | 82.35               | 83.10               | 84.13               | 85.50               |
| <b>42.5</b>             | 75.54                    | 74.36               | 73.41               | 72.72               | 72.29               | 72.26               | 72.44               | 73.06               | 74.06               | 75.44               |
| <b>45.0</b>             | 67.10                    | 65.90               | 64.83               | 63.99               | 63.33               | 63.00               | 62.97               | 63.24               | 63.93               | 65.32               |
| <b>47.5</b>             | 60.26                    | 59.17               | 58.14               | 57.31               | 56.59               | 56.13               | 55.93               | 56.00               | 56.40               | 57.16               |
| <b>50.0</b>             | 54.01                    | 53.01               | 52.09               | 51.27               | 50.70               | 50.27               | 50.13               | 50.23               | 50.65               | 51.38               |
| <b>52.5</b>             | 47.75                    | 46.89               | 46.04               | 45.37               | 44.81               | 44.44               | 44.34               | 44.46               | 44.87               | 45.56               |
| <b>55.0</b>             | 41.46                    | 40.71               | 39.99               | 39.43               | 38.97               | 38.64               | 38.55               | 38.68               | 39.06               | 39.68               |
| <b>57.5</b>             | 35.16                    | 34.53               | 33.94               | 33.45               | 33.09               | 32.86               | 32.78               | 32.89               | 33.22               | 33.77               |
| <b>60.0</b>             | 28.61                    | 28.28               | 27.88               | 27.45               | 27.02               | 27.07               | 27.00               | 27.09               | 27.36               | 27.82               |
| <b>62.5</b>             | 24.87                    | 24.49               | 24.12               | 23.77               | 23.49               | 23.25               | 23.07               | 22.91               | 23.01               | 23.11               |
| <b>65.0</b>             | 20.99                    | 20.66               | 20.34               | 20.06               | 19.82               | 19.62               | 19.48               | 19.42               | 19.45               | 19.48               |
| <b>67.5</b>             | 17.09                    | 16.82               | 16.57               | 16.34               | 16.15               | 16.00               | 15.89               | 15.86               | 15.90               | 16.00               |
| <b>70.0</b>             | 13.07                    | 12.96               | 12.79               | 12.60               | 12.39               | 12.39               | 12.32               | 12.31               | 12.37               | 12.43               |
| <b>72.5</b>             | 11.57                    | 11.45               | 11.29               | 11.13               | 10.97               | 10.80               | 10.67               | 10.55               | 10.40               | 10.32               |
| <b>75.0</b>             | 10.03                    | 9.92                | 9.78                | 9.64                | 9.51                | 9.38                | 9.27                | 9.17                | 9.07                | 8.97                |
| <b>77.5</b>             | 8.48                     | 8.39                | 8.27                | 8.16                | 8.05                | 7.95                | 7.88                | 7.79                | 7.71                | 7.63                |
| <b>80.0</b>             | 6.92                     | 6.86                | 6.77                | 6.68                | 6.57                | 6.47                | 6.48                | 6.42                | 6.35                | 6.30                |
| <b>82.5</b>             | 5.39                     | 5.33                | 5.26                | 5.20                | 5.15                | 5.10                | 5.10                | 5.05                | 5.01                | 4.98                |
| <b>85.0</b>             | 3.84                     | 3.81                | 3.76                | 3.72                | 3.70                | 3.68                | 3.71                | 3.69                | 3.66                | 3.65                |
| <b>87.5</b>             | 2.29                     | 2.28                | 2.25                | 2.24                | 2.25                | 2.25                | 2.32                | 2.32                | 2.32                | 2.33                |
| <b>90.0</b>             | 0.75                     | 0.75                | 0.75                | 0.76                | 0.79                | 0.83                | 0.93                | 0.96                | 0.98                | 1.01                |

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|-------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                         | <b><u>200.0</u></b>      | <b><u>202.5</u></b> | <b><u>205.0</u></b> | <b><u>207.5</u></b> | <b><u>210.0</u></b> | <b><u>212.5</u></b> | <b><u>215.0</u></b> | <b><u>217.5</u></b> | <b><u>220.0</u></b> | <b><u>222.5</u></b> |
| <b>0.0</b>              | 471.08                   | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              |
| <b>2.5</b>              | 435.73                   | 436.12              | 436.68              | 437.02              | 437.55              | 438.14              | 438.79              | 439.28              | 439.08              | 441.10              |
| <b>5.0</b>              | 398.15                   | 399.18              | 400.35              | 401.64              | 403.08              | 404.67              | 406.39              | 407.82              | 409.64              | 411.24              |
| <b>7.5</b>              | 351.88                   | 353.96              | 356.28              | 358.83              | 361.62              | 364.68              | 367.85              | 370.53              | 374.13              | 377.38              |
| <b>10.0</b>             | 302.30                   | 305.32              | 308.63              | 312.22              | 316.10              | 320.33              | 324.83              | 328.92              | 334.65              | 339.95              |
| <b>12.5</b>             | 269.61                   | 271.75              | 274.16              | 276.85              | 279.77              | 282.93              | 286.33              | 289.78              | 296.79              | 303.87              |

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**CANDELA TABULATION - (Cont.)**

|      |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 15.0 | 242.46 | 244.10 | 248.20 | 251.50 | 255.15 | 259.09 | 263.55 | 268.22 | 273.58 | 279.03 |
| 17.5 | 215.67 | 218.92 | 221.94 | 226.51 | 230.97 | 235.88 | 241.27 | 247.17 | 253.52 | 260.42 |
| 20.0 | 189.07 | 192.87 | 197.07 | 201.63 | 206.88 | 212.62 | 218.94 | 225.82 | 233.58 | 241.99 |
| 22.5 | 169.73 | 172.09 | 174.69 | 177.62 | 182.39 | 188.93 | 196.22 | 204.35 | 213.36 | 223.30 |
| 25.0 | 156.51 | 158.98 | 161.80 | 165.04 | 168.73 | 173.10 | 177.99 | 183.84 | 192.25 | 203.63 |
| 27.5 | 143.01 | 145.61 | 148.62 | 152.15 | 156.29 | 161.19 | 166.85 | 173.23 | 180.44 | 188.47 |
| 30.0 | 129.30 | 131.93 | 135.07 | 138.81 | 143.32 | 148.36 | 154.69 | 161.71 | 169.71 | 178.97 |
| 32.5 | 116.92 | 118.82 | 121.03 | 124.91 | 129.55 | 135.00 | 141.44 | 148.72 | 157.75 | 167.88 |
| 35.0 | 107.11 | 109.11 | 111.53 | 114.49 | 117.87 | 121.83 | 126.78 | 134.55 | 143.68 | 154.40 |
| 37.5 | 97.23  | 99.35  | 101.95 | 105.04 | 108.64 | 112.68 | 117.51 | 122.81 | 128.68 | 137.72 |
| 40.0 | 87.28  | 89.49  | 92.19  | 95.35  | 99.07  | 103.31 | 108.14 | 113.55 | 119.72 | 126.61 |
| 42.5 | 77.25  | 79.48  | 82.19  | 85.40  | 89.06  | 93.29  | 98.11  | 103.55 | 109.78 | 116.81 |
| 45.0 | 67.12  | 69.32  | 71.97  | 75.02  | 78.56  | 82.64  | 87.25  | 92.61  | 98.72  | 105.80 |
| 47.5 | 58.40  | 60.10  | 62.11  | 64.32  | 67.51  | 71.24  | 75.56  | 80.64  | 86.54  | 93.38  |
| 50.0 | 52.33  | 53.52  | 54.88  | 56.30  | 57.63  | 60.46  | 63.36  | 67.55  | 73.03  | 79.45  |
| 52.5 | 46.46  | 47.57  | 48.79  | 50.13  | 51.54  | 53.01  | 54.62  | 56.13  | 59.76  | 63.85  |
| 55.0 | 40.51  | 41.51  | 42.61  | 43.83  | 45.09  | 46.45  | 47.92  | 49.48  | 51.05  | 52.39  |
| 57.5 | 34.49  | 35.36  | 36.33  | 37.39  | 38.54  | 39.79  | 41.12  | 42.59  | 43.94  | 45.15  |
| 60.0 | 28.40  | 29.12  | 29.95  | 30.87  | 31.88  | 32.99  | 34.25  | 35.46  | 36.78  | 37.85  |
| 62.5 | 23.26  | 23.45  | 23.64  | 24.28  | 25.14  | 26.13  | 27.28  | 28.48  | 29.64  | 30.93  |
| 65.0 | 19.69  | 19.86  | 20.02  | 20.19  | 20.34  | 20.49  | 20.69  | 21.38  | 22.58  | 23.91  |
| 67.5 | 16.11  | 16.29  | 16.41  | 16.59  | 16.74  | 16.91  | 17.11  | 17.26  | 17.45  | 17.70  |
| 70.0 | 12.54  | 12.72  | 12.81  | 13.01  | 13.17  | 13.36  | 13.55  | 13.74  | 13.93  | 14.22  |
| 72.5 | 10.21  | 10.10  | 9.92   | 9.80   | 9.60   | 9.84   | 10.03  | 10.24  | 10.46  | 10.75  |
| 75.0 | 8.88   | 8.78   | 8.65   | 8.54   | 8.36   | 8.21   | 8.02   | 7.80   | 7.56   | 7.33   |
| 77.5 | 7.56   | 7.48   | 7.38   | 7.28   | 7.13   | 7.01   | 6.86   | 6.66   | 6.46   | 6.26   |
| 80.0 | 6.25   | 6.18   | 6.12   | 6.05   | 5.93   | 5.82   | 5.70   | 5.55   | 5.40   | 5.22   |
| 82.5 | 4.95   | 4.91   | 4.87   | 4.81   | 4.73   | 4.66   | 4.57   | 4.46   | 4.36   | 4.23   |
| 85.0 | 3.64   | 3.63   | 3.62   | 3.58   | 3.55   | 3.51   | 3.43   | 3.40   | 3.34   | 3.25   |
| 87.5 | 2.34   | 2.36   | 2.38   | 2.36   | 2.36   | 2.36   | 2.36   | 2.35   | 2.33   | 2.30   |
| 90.0 | 1.04   | 1.09   | 1.14   | 1.15   | 1.19   | 1.22   | 1.26   | 1.30   | 1.32   | 1.36   |

**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  | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       |
| 2.5  | 441.99       | 442.92       | 443.91       | 444.95       | 446.15       | 447.13       | 448.28       | 449.48       | 450.72       | 452.00       |
| 5.0  | 412.95       | 414.76       | 416.66       | 418.66       | 420.98       | 422.89       | 425.13       | 427.45       | 429.84       | 431.18       |
| 7.5  | 380.64       | 384.16       | 387.82       | 391.64       | 395.64       | 399.80       | 403.34       | 406.84       | 410.44       | 414.13       |
| 10.0 | 345.53       | 351.38       | 357.46       | 363.74       | 369.66       | 375.39       | 381.25       | 387.24       | 393.38       | 399.33       |
| 12.5 | 311.21       | 318.90       | 326.95       | 335.21       | 343.79       | 352.62       | 361.63       | 370.26       | 378.53       | 386.75       |
| 15.0 | 285.15       | 291.40       | 299.70       | 310.06       | 320.87       | 332.03       | 343.38       | 355.50       | 367.97       | 380.21       |
| 17.5 | 267.87       | 275.86       | 284.43       | 293.47       | 303.02       | 315.46       | 329.36       | 345.00       | 360.26       | 375.84       |
| 20.0 | 251.04       | 260.99       | 271.53       | 282.81       | 294.78       | 307.39       | 320.67       | 337.23       | 355.41       | 373.96       |
| 22.5 | 234.18       | 245.99       | 258.43       | 272.57       | 287.37       | 303.13       | 319.93       | 337.47       | 354.78       | 379.61       |
| 25.0 | 216.18       | 229.96       | 245.14       | 261.88       | 279.90       | 299.19       | 319.95       | 341.54       | 364.84       | 388.60       |
| 27.5 | 197.21       | 212.14       | 229.93       | 249.55       | 270.99       | 294.22       | 319.47       | 346.29       | 374.74       | 404.61       |
| 30.0 | 189.43       | 201.19       | 214.33       | 234.16       | 259.29       | 286.78       | 316.82       | 349.12       | 383.48       | 420.28       |
| 32.5 | 179.50       | 192.80       | 207.87       | 224.66       | 243.23       | 274.30       | 309.49       | 347.78       | 388.93       | 432.96       |
| 35.0 | 166.95       | 181.39       | 197.73       | 216.40       | 237.82       | 261.44       | 294.92       | 336.85       | 386.82       | 438.21       |
| 37.5 | 150.78       | 166.13       | 184.07       | 204.71       | 227.99       | 253.82       | 282.11       | 319.25       | 372.58       | 432.01       |
| 40.0 | 134.20       | 145.91       | 164.70       | 186.57       | 211.50       | 239.46       | 270.21       | 303.35       | 345.84       | 410.09       |
| 42.5 | 124.75       | 133.55       | 143.28       | 161.67       | 187.89       | 217.33       | 249.67       | 284.69       | 321.72       | 371.64       |
| 45.0 | 113.76       | 122.67       | 132.49       | 143.28       | 156.46       | 186.81       | 220.32       | 256.47       | 294.59       | 334.34       |
| 47.5 | 101.17       | 109.89       | 119.58       | 130.08       | 141.39       | 153.32       | 183.01       | 219.86       | 258.53       | 298.07       |
| 50.0 | 86.76        | 95.06        | 104.36       | 114.38       | 125.77       | 137.49       | 149.49       | 176.89       | 215.68       | 254.71       |



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**CANDELA TABULATION - (Cont.)**

|      |       |       |       |       |        |        |        |        |        |        |
|------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 52.5 | 70.48 | 78.24 | 86.95 | 97.39 | 108.24 | 119.64 | 131.43 | 143.67 | 169.66 | 207.30 |
| 55.0 | 55.22 | 59.69 | 68.72 | 78.60 | 89.25  | 100.43 | 112.05 | 123.87 | 135.63 | 160.27 |
| 57.5 | 46.45 | 48.20 | 51.99 | 58.74 | 69.19  | 80.25  | 91.62  | 102.46 | 114.14 | 125.17 |
| 60.0 | 39.46 | 41.25 | 43.26 | 45.36 | 50.40  | 59.43  | 70.52  | 81.61  | 92.34  | 102.60 |
| 62.5 | 32.48 | 34.26 | 36.19 | 38.23 | 40.33  | 42.26  | 49.53  | 60.30  | 70.17  | 79.93  |
| 65.0 | 25.49 | 27.22 | 29.07 | 31.04 | 33.04  | 35.08  | 36.86  | 40.05  | 48.10  | 57.41  |
| 67.5 | 18.45 | 20.10 | 21.95 | 23.84 | 25.79  | 27.70  | 28.93  | 29.18  | 30.42  | 37.24  |
| 70.0 | 14.53 | 14.87 | 15.30 | 16.64 | 18.58  | 20.34  | 21.24  | 22.08  | 23.07  | 24.10  |
| 72.5 | 11.00 | 11.40 | 11.82 | 12.24 | 12.64  | 13.31  | 14.60  | 15.90  | 17.15  | 18.23  |
| 75.0 | 7.60  | 7.95  | 8.38  | 8.82  | 9.22   | 9.51   | 9.75   | 10.25  | 11.76  | 12.74  |
| 77.5 | 6.02  | 5.82  | 5.64  | 5.42  | 5.87   | 6.22   | 6.63   | 7.12   | 7.54   | 7.66   |
| 80.0 | 5.05  | 4.88  | 4.73  | 4.55  | 4.34   | 4.09   | 3.89   | 4.15   | 4.60   | 4.89   |
| 82.5 | 4.10  | 3.97  | 3.85  | 3.72  | 3.55   | 3.36   | 3.21   | 3.07   | 2.89   | 2.76   |
| 85.0 | 3.17  | 3.09  | 3.01  | 2.91  | 2.79   | 2.67   | 2.57   | 2.47   | 2.35   | 2.25   |
| 87.5 | 2.26  | 2.22  | 2.18  | 2.13  | 2.06   | 2.01   | 1.95   | 1.90   | 1.85   | 1.80   |
| 90.0 | 1.36  | 1.36  | 1.36  | 1.36  | 1.36   | 1.36   | 1.36   | 1.36   | 1.37   | 1.37   |

| Vert.<br>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             | 471.08            | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       |
| 2.5             | 453.31            | 454.66       | 456.04       | 457.45       | 458.89       | 460.35       | 461.83       | 463.33       | 464.85       | 463.79       |
| 5.0             | 434.83            | 437.42       | 440.08       | 442.79       | 445.55       | 448.36       | 451.21       | 454.10       | 457.03       | 455.08       |
| 7.5             | 418.00            | 421.83       | 425.17       | 429.83       | 433.93       | 438.08       | 442.27       | 446.50       | 450.77       | 448.10       |
| 10.0            | 404.56            | 409.87       | 415.23       | 420.65       | 426.11       | 431.62       | 437.15       | 442.70       | 448.26       | 444.96       |
| 12.5            | 395.07            | 402.92       | 409.71       | 416.99       | 424.06       | 431.12       | 438.14       | 445.13       | 452.06       | 448.12       |
| 15.0            | 390.63            | 402.00       | 412.41       | 421.52       | 430.13       | 438.62       | 446.98       | 455.20       | 463.27       | 458.74       |
| 17.5            | 391.73            | 405.64       | 418.98       | 430.20       | 442.76       | 453.27       | 463.53       | 473.51       | 483.18       | 477.94       |
| 20.0            | 394.84            | 414.06       | 432.21       | 448.84       | 463.80       | 476.53       | 488.87       | 500.79       | 512.23       | 506.35       |
| 22.5            | 402.26            | 427.46       | 451.54       | 472.02       | 491.97       | 507.98       | 522.95       | 537.24       | 550.82       | 544.35       |
| 25.0            | 417.03            | 445.69       | 473.50       | 503.62       | 527.83       | 549.23       | 567.16       | 584.18       | 600.22       | 592.98       |
| 27.5            | 435.74            | 470.46       | 505.97       | 541.50       | 571.67       | 601.26       | 622.89       | 643.25       | 662.19       | 654.03       |
| 30.0            | 458.15            | 498.72       | 541.59       | 585.11       | 627.18       | 662.45       | 690.45       | 715.23       | 738.22       | 728.83       |
| 32.5            | 479.24            | 527.39       | 577.89       | 630.41       | 683.29       | 728.28       | 765.24       | 795.85       | 824.38       | 813.41       |
| 35.0            | 492.57            | 549.52       | 608.48       | 669.05       | 732.74       | 789.97       | 836.42       | 872.78       | 907.14       | 894.21       |
| 37.5            | 493.91            | 558.32       | 624.97       | 693.77       | 764.49       | 832.91       | 886.75       | 924.64       | 964.58       | 950.24       |
| 40.0            | 478.05            | 548.49       | 620.83       | 694.90       | 768.99       | 843.18       | 902.75       | 944.33       | 984.10       | 969.24       |
| 42.5            | 443.43            | 517.24       | 591.88       | 667.04       | 741.37       | 815.61       | 875.92       | 917.00       | 954.90       | 939.65       |
| 45.0            | 392.72            | 466.35       | 540.47       | 611.66       | 683.42       | 750.40       | 810.44       | 848.97       | 882.53       | 868.00       |
| 47.5            | 337.93            | 402.15       | 470.59       | 537.96       | 601.56       | 660.02       | 712.33       | 745.91       | 775.02       | 762.71       |
| 50.0            | 293.02            | 332.86       | 394.48       | 452.27       | 507.83       | 557.74       | 601.02       | 629.69       | 652.76       | 641.01       |
| 52.5            | 243.18            | 277.02       | 319.32       | 367.07       | 411.76       | 453.81       | 487.37       | 511.00       | 528.79       | 520.03       |
| 55.0            | 193.78            | 224.10       | 251.67       | 288.71       | 321.78       | 355.03       | 380.76       | 400.25       | 413.40       | 407.74       |
| 57.5            | 148.44            | 175.47       | 198.76       | 221.43       | 245.25       | 267.59       | 286.98       | 301.91       | 309.84       | 308.12       |
| 60.0            | 112.71            | 132.75       | 150.40       | 164.31       | 180.29       | 195.45       | 209.67       | 220.16       | 225.38       | 224.57       |
| 62.5            | 88.63             | 96.24        | 109.30       | 120.01       | 130.35       | 140.31       | 151.16       | 156.19       | 159.52       | 158.93       |
| 65.0            | 65.21             | 70.39        | 77.13        | 86.09        | 93.36        | 98.67        | 104.44       | 108.57       | 110.09       | 109.93       |
| 67.5            | 44.48             | 50.20        | 55.03        | 60.63        | 65.55        | 69.01        | 71.77        | 74.61        | 75.27        | 75.17        |
| 70.0            | 28.45             | 34.15        | 38.31        | 41.83        | 45.44        | 48.26        | 49.46        | 51.10        | 51.48        | 51.27        |
| 72.5            | 18.79             | 20.19        | 24.85        | 28.65        | 31.22        | 33.33        | 34.46        | 35.57        | 36.01        | 35.80        |
| 75.0            | 12.90             | 13.41        | 15.43        | 18.87        | 21.35        | 22.94        | 24.04        | 24.69        | 24.96        | 24.95        |
| 77.5            | 8.49              | 9.66         | 10.58        | 11.78        | 14.19        | 15.41        | 16.14        | 16.51        | 16.77        | 16.72        |
| 80.0            | 5.38              | 5.90         | 6.84         | 8.01         | 8.90         | 9.53         | 9.93         | 10.15        | 10.28        | 10.38        |
| 82.5            | 2.89              | 3.33         | 3.84         | 4.37         | 4.90         | 5.14         | 5.34         | 5.63         | 5.57         | 5.83         |
| 85.0            | 2.11              | 1.99         | 1.87         | 2.08         | 2.26         | 2.41         | 2.32         | 2.40         | 2.47         | 2.53         |
| 87.5            | 1.72              | 1.66         | 1.61         | 1.57         | 1.55         | 1.48         | 1.52         | 1.25         | 1.10         | 1.36         |

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CANDELA TABULATION - (Cont.)

|                 |                   |              |              |              |              |              |              |              |              |              |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 90.0            | 1.37              | 1.37         | 1.38         | 1.39         | 1.39         | 1.42         | 1.42         | 0.86         | 0.17         | 1.76         |
| Vert.<br>Angles | Horizontal Angles |              |              |              |              |              |              |              |              |              |
|                 | <u>275.0</u>      | <u>277.5</u> | <u>280.0</u> | <u>282.5</u> | <u>285.0</u> | <u>287.5</u> | <u>290.0</u> | <u>292.5</u> | <u>295.0</u> | <u>297.5</u> |
| 0.0             | 471.08            | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       |
| 2.5             | 462.74            | 461.71       | 460.70       | 459.71       | 458.74       | 457.80       | 456.88       | 455.99       | 455.12       | 454.29       |
| 5.0             | 453.16            | 451.27       | 449.42       | 447.60       | 445.83       | 444.09       | 442.40       | 440.74       | 439.14       | 437.58       |
| 7.5             | 445.46            | 442.84       | 440.26       | 437.71       | 435.19       | 432.71       | 430.31       | 427.87       | 425.55       | 423.27       |
| 10.0            | 441.67            | 438.39       | 435.11       | 431.85       | 428.59       | 425.35       | 422.12       | 418.92       | 414.24       | 409.00       |
| 12.5            | 444.12            | 440.06       | 435.93       | 431.74       | 427.25       | 423.27       | 417.26       | 410.24       | 403.26       | 396.14       |
| 15.0            | 454.04            | 449.21       | 444.18       | 439.00       | 433.68       | 424.83       | 415.25       | 406.79       | 395.39       | 383.27       |
| 17.5            | 472.36            | 466.46       | 460.24       | 452.97       | 443.30       | 432.29       | 420.25       | 404.85       | 389.71       | 374.83       |
| 20.0            | 499.97            | 493.09       | 485.73       | 474.88       | 461.37       | 445.58       | 427.29       | 408.49       | 389.02       | 371.42       |
| 22.5            | 537.49            | 529.04       | 519.48       | 503.66       | 486.80       | 464.13       | 441.17       | 418.55       | 395.90       | 375.08       |
| 25.0            | 584.68            | 575.33       | 560.82       | 542.03       | 514.76       | 489.65       | 462.37       | 434.82       | 408.16       | 381.92       |
| 27.5            | 644.35            | 633.20       | 611.09       | 586.93       | 555.00       | 522.58       | 491.98       | 455.32       | 422.00       | 390.14       |
| 30.0            | 717.46            | 701.76       | 675.69       | 639.65       | 600.94       | 562.21       | 518.11       | 476.32       | 435.43       | 396.95       |
| 32.5            | 800.10            | 777.85       | 743.89       | 698.17       | 652.14       | 601.03       | 547.23       | 495.51       | 446.28       | 400.13       |
| 35.0            | 879.03            | 849.58       | 804.43       | 749.67       | 695.24       | 630.40       | 567.48       | 507.21       | 449.98       | 396.27       |
| 37.5            | 934.71            | 900.21       | 845.94       | 788.26       | 719.50       | 644.81       | 572.95       | 504.67       | 440.01       | 379.64       |
| 40.0            | 950.93            | 910.71       | 851.79       | 790.03       | 711.55       | 634.37       | 558.74       | 484.13       | 413.13       | 363.03       |
| 42.5            | 920.78            | 879.39       | 821.37       | 752.76       | 674.55       | 596.64       | 518.81       | 442.41       | 385.69       | 340.64       |
| 45.0            | 848.52            | 806.22       | 756.71       | 684.81       | 612.64       | 536.33       | 460.38       | 397.70       | 351.51       | 306.16       |
| 47.5            | 745.71            | 707.49       | 659.48       | 596.79       | 529.78       | 461.42       | 395.84       | 351.36       | 306.17       | 261.16       |
| 50.0            | 625.36            | 594.38       | 550.92       | 496.95       | 440.80       | 380.94       | 339.41       | 297.90       | 254.05       | 209.66       |
| 52.5            | 506.10            | 483.43       | 443.91       | 400.89       | 355.16       | 313.98       | 279.98       | 241.66       | 200.31       | 171.31       |
| 55.0            | 395.06            | 376.17       | 345.62       | 313.57       | 279.06       | 253.24       | 224.16       | 189.24       | 162.54       | 149.70       |
| 57.5            | 298.09            | 281.56       | 259.24       | 236.32       | 217.02       | 197.78       | 173.27       | 150.79       | 139.38       | 127.06       |
| 60.0            | 217.81            | 205.10       | 190.35       | 174.73       | 162.17       | 148.19       | 132.49       | 124.61       | 114.83       | 103.78       |
| 62.5            | 156.23            | 146.26       | 136.76       | 127.46       | 117.25       | 104.94       | 103.11       | 98.66        | 90.32        | 80.16        |
| 65.0            | 107.06            | 101.81       | 97.19        | 91.47        | 84.50        | 79.89        | 77.29        | 73.72        | 67.16        | 58.79        |
| 67.5            | 72.87             | 70.59        | 68.13        | 64.67        | 61.64        | 60.45        | 57.88        | 53.71        | 49.05        | 47.07        |
| 70.0            | 50.11             | 49.33        | 47.66        | 45.90        | 45.70        | 44.76        | 42.45        | 40.13        | 39.25        | 37.97        |
| 72.5            | 35.10             | 34.56        | 33.48        | 33.42        | 33.38        | 32.54        | 31.88        | 31.46        | 30.61        | 29.32        |
| 75.0            | 24.69             | 24.30        | 24.19        | 24.25        | 24.15        | 24.21        | 24.17        | 23.68        | 22.78        | 21.20        |
| 77.5            | 16.75             | 16.61        | 17.08        | 17.26        | 17.55        | 17.69        | 17.49        | 16.76        | 16.51        | 16.15        |
| 80.0            | 10.48             | 10.82        | 11.39        | 11.95        | 12.21        | 12.12        | 12.18        | 12.03        | 11.77        | 11.36        |
| 82.5            | 5.89              | 6.56         | 7.15         | 7.57         | 7.88         | 8.00         | 7.90         | 7.97         | 8.32         | 8.61         |
| 85.0            | 2.90              | 3.59         | 4.11         | 4.45         | 4.80         | 5.31         | 5.67         | 5.92         | 6.12         | 6.32         |
| 87.5            | 2.15              | 2.62         | 2.97         | 3.29         | 3.59         | 3.82         | 3.95         | 4.00         | 4.05         | 4.09         |
| 90.0            | 2.59              | 2.80         | 2.75         | 2.70         | 2.58         | 2.46         | 2.32         | 2.15         | 2.01         | 1.93         |

|                 |                   |              |              |              |              |              |              |              |              |              |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Vert.<br>Angles | Horizontal Angles |              |              |              |              |              |              |              |              |              |
|                 | <u>300.0</u>      | <u>302.5</u> | <u>305.0</u> | <u>307.5</u> | <u>310.0</u> | <u>312.5</u> | <u>315.0</u> | <u>317.5</u> | <u>320.0</u> | <u>322.5</u> |
| 0.0             | 471.08            | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       |
| 2.5             | 453.48            | 452.71       | 452.09       | 451.25       | 450.56       | 449.90       | 449.27       | 448.69       | 448.14       | 447.63       |
| 5.0             | 436.06            | 434.60       | 433.39       | 431.82       | 430.51       | 429.26       | 428.06       | 426.93       | 425.86       | 424.94       |
| 7.5             | 421.04            | 419.25       | 414.91       | 411.34       | 407.91       | 404.59       | 401.38       | 398.33       | 395.38       | 392.64       |
| 10.0            | 403.84            | 398.75       | 393.74       | 388.15       | 381.58       | 375.17       | 368.91       | 362.99       | 357.26       | 351.72       |
| 12.5            | 387.81            | 378.63       | 369.61       | 360.82       | 352.34       | 344.05       | 336.03       | 328.30       | 320.79       | 313.66       |
| 15.0            | 371.31            | 359.75       | 348.34       | 337.24       | 326.55       | 317.49       | 310.29       | 303.17       | 296.91       | 290.67       |
| 17.5            | 359.38            | 345.67       | 332.60       | 321.65       | 311.31       | 301.78       | 292.20       | 283.53       | 275.46       | 268.63       |
| 20.0            | 354.35            | 339.25       | 324.79       | 311.12       | 298.26       | 286.13       | 274.65       | 264.15       | 254.35       | 245.21       |
| 22.5            | 355.31            | 336.30       | 318.34       | 301.41       | 285.13       | 270.75       | 257.06       | 244.43       | 232.92       | 222.39       |

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**CANDELA TABULATION - (Cont.)**

|      |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 25.0 | 357.68 | 335.33 | 312.20 | 291.62 | 272.43 | 254.81 | 238.68 | 223.92 | 210.52 | 200.48 |
| 27.5 | 359.93 | 331.35 | 304.95 | 280.49 | 257.91 | 237.20 | 219.67 | 208.81 | 198.80 | 189.98 |
| 30.0 | 360.55 | 326.45 | 295.06 | 266.25 | 243.07 | 226.93 | 212.38 | 199.41 | 188.05 | 178.17 |
| 32.5 | 357.06 | 317.16 | 282.37 | 258.29 | 237.34 | 218.67 | 202.29 | 187.92 | 175.48 | 164.28 |
| 35.0 | 346.46 | 307.10 | 277.75 | 250.90 | 227.46 | 207.03 | 188.94 | 173.37 | 160.07 | 148.76 |
| 37.5 | 335.71 | 300.53 | 268.25 | 239.14 | 213.39 | 190.85 | 171.48 | 155.00 | 143.89 | 137.16 |
| 40.0 | 322.35 | 284.48 | 249.97 | 219.01 | 191.76 | 168.30 | 153.86 | 144.70 | 136.45 | 129.24 |
| 42.5 | 297.95 | 258.14 | 221.91 | 189.70 | 167.39 | 156.07 | 145.65 | 136.39 | 127.73 | 120.46 |
| 45.0 | 262.55 | 221.53 | 184.18 | 168.95 | 156.82 | 145.90 | 135.27 | 125.89 | 117.47 | 110.28 |
| 47.5 | 217.40 | 181.77 | 168.78 | 155.75 | 143.81 | 132.78 | 122.75 | 113.68 | 105.67 | 98.77  |
| 50.0 | 177.96 | 164.94 | 152.14 | 139.83 | 128.30 | 117.65 | 108.05 | 99.52  | 92.07  | 85.75  |
| 52.5 | 158.25 | 145.61 | 133.28 | 121.51 | 110.40 | 100.30 | 91.30  | 83.43  | 78.38  | 74.29  |
| 55.0 | 137.05 | 124.60 | 112.64 | 101.19 | 90.52  | 80.92  | 75.39  | 71.55  | 69.28  | 67.12  |
| 57.5 | 114.76 | 102.60 | 90.79  | 79.58  | 72.28  | 68.05  | 65.88  | 63.77  | 61.74  | 59.76  |
| 60.0 | 91.85  | 79.91  | 70.21  | 64.69  | 62.40  | 59.92  | 57.84  | 55.82  | 53.95  | 52.18  |
| 62.5 | 68.74  | 61.34  | 58.66  | 56.22  | 53.89  | 51.68  | 49.68  | 47.82  | 45.98  | 44.43  |
| 65.0 | 54.39  | 52.22  | 49.94  | 47.65  | 45.53  | 43.37  | 41.45  | 39.70  | 37.94  | 36.51  |
| 67.5 | 45.27  | 43.28  | 41.17  | 39.02  | 36.94  | 34.92  | 33.12  | 32.21  | 31.61  | 31.07  |
| 70.0 | 36.30  | 34.43  | 32.40  | 30.35  | 28.84  | 28.20  | 27.68  | 27.17  | 26.68  | 26.13  |
| 72.5 | 27.66  | 25.75  | 24.85  | 24.30  | 23.71  | 23.15  | 22.64  | 22.15  | 21.71  | 21.24  |
| 75.0 | 20.72  | 20.25  | 19.72  | 19.19  | 18.64  | 18.11  | 17.66  | 17.19  | 17.28  | 17.35  |
| 77.5 | 15.81  | 15.23  | 14.68  | 14.13  | 14.25  | 14.39  | 14.48  | 14.57  | 14.66  | 14.74  |
| 80.0 | 11.17  | 11.35  | 11.49  | 11.60  | 11.70  | 11.82  | 11.91  | 11.99  | 12.07  | 12.14  |
| 82.5 | 8.77   | 8.92   | 9.04   | 9.14   | 9.22   | 9.30   | 9.38   | 9.45   | 9.50   | 9.56   |
| 85.0 | 6.47   | 6.55   | 6.63   | 6.70   | 6.76   | 6.81   | 6.87   | 6.92   | 6.96   | 7.00   |
| 87.5 | 4.16   | 4.22   | 4.27   | 4.30   | 4.33   | 4.34   | 4.37   | 4.40   | 4.42   | 4.45   |
| 90.0 | 1.91   | 1.91   | 1.91   | 1.91   | 1.91   | 1.88   | 1.88   | 1.88   | 1.88   | 1.90   |

**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  | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       | 471.08       |
| 2.5  | 447.66       | 446.74       | 446.36       | 446.02       | 445.84       | 445.47       | 445.23       | 445.05       | 444.91       | 444.82       |
| 5.0  | 424.91       | 421.82       | 420.39       | 419.09       | 417.92       | 416.84       | 415.85       | 415.01       | 414.30       | 413.84       |
| 7.5  | 389.13       | 385.64       | 382.34       | 379.28       | 376.46       | 373.90       | 371.63       | 369.62       | 367.88       | 366.37       |
| 10.0 | 346.54       | 341.60       | 336.91       | 332.56       | 328.48       | 324.73       | 321.31       | 318.21       | 315.54       | 313.21       |
| 12.5 | 308.87       | 304.58       | 300.59       | 296.92       | 293.57       | 290.50       | 287.72       | 285.26       | 284.16       | 281.25       |
| 15.0 | 285.14       | 279.83       | 275.00       | 270.51       | 266.43       | 262.73       | 259.33       | 256.43       | 253.80       | 251.54       |
| 17.5 | 261.18       | 254.90       | 249.12       | 243.85       | 239.13       | 234.84       | 230.97       | 227.54       | 224.51       | 221.87       |
| 20.0 | 237.11       | 229.67       | 222.91       | 216.72       | 211.44       | 206.64       | 202.36       | 198.53       | 195.07       | 192.18       |
| 22.5 | 212.78       | 204.08       | 196.26       | 190.59       | 187.08       | 184.05       | 181.42       | 179.09       | 176.99       | 175.24       |
| 25.0 | 193.63       | 187.69       | 182.37       | 177.76       | 173.77       | 170.33       | 167.39       | 164.87       | 162.65       | 160.71       |
| 27.5 | 182.26       | 175.56       | 169.70       | 164.60       | 160.21       | 156.45       | 153.58       | 150.50       | 148.17       | 146.16       |
| 30.0 | 169.64       | 162.37       | 156.18       | 150.82       | 146.21       | 142.71       | 138.91       | 136.05       | 133.58       | 131.49       |
| 32.5 | 155.45       | 147.80       | 141.45       | 136.14       | 131.56       | 129.06       | 126.86       | 124.97       | 123.31       | 121.94       |
| 35.0 | 139.30       | 133.85       | 129.91       | 126.59       | 123.69       | 121.11       | 118.89       | 116.96       | 115.57       | 113.94       |
| 37.5 | 131.25       | 126.07       | 121.98       | 118.47       | 115.55       | 112.98       | 110.73       | 108.84       | 107.21       | 105.87       |
| 40.0 | 123.18       | 117.99       | 113.66       | 110.05       | 107.09       | 104.60       | 102.40       | 100.57       | 99.02        | 97.72        |
| 42.5 | 114.18       | 109.01       | 104.73       | 101.22       | 98.34        | 95.95        | 93.88        | 92.13        | 90.69        | 89.50        |
| 45.0 | 104.13       | 99.14        | 95.12        | 91.87        | 89.23        | 87.03        | 85.15        | 83.54        | 82.29        | 81.36        |
| 47.5 | 92.97        | 88.32        | 84.69        | 82.21        | 80.17        | 78.61        | 77.21        | 76.09        | 75.32        | 74.66        |
| 50.0 | 80.99        | 77.81        | 75.32        | 74.00        | 72.93        | 71.90        | 70.92        | 70.05        | 69.34        | 68.79        |
| 52.5 | 72.09        | 70.22        | 68.67        | 67.47        | 66.50        | 65.57        | 64.72        | 63.95        | 63.32        | 62.89        |
| 55.0 | 65.16        | 63.44        | 62.01        | 60.86        | 59.99        | 59.19        | 58.44        | 57.79        | 57.41        | 56.93        |
| 57.5 | 58.02        | 56.47        | 55.18        | 54.17        | 53.41        | 52.75        | 52.10        | 51.58        | 51.17        | 50.94        |
| 60.0 | 50.62        | 49.31        | 48.20        | 47.39        | 46.75        | 46.23        | 45.71        | 45.33        | 45.03        | 44.91        |

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

**CANDELA TABULATION - (Cont.)**

|             |       |       |       |       |       |       |       |       |       |       |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>62.5</b> | 43.04 | 41.97 | 41.09 | 40.50 | 40.12 | 40.01 | 39.84 | 39.72 | 39.67 | 39.68 |
| <b>65.0</b> | 35.65 | 35.46 | 35.29 | 35.17 | 35.08 | 34.96 | 34.84 | 34.75 | 34.71 | 34.69 |
| <b>67.5</b> | 30.73 | 30.50 | 30.33 | 30.17 | 30.06 | 29.94 | 29.82 | 29.77 | 29.76 | 29.72 |
| <b>70.0</b> | 25.90 | 25.58 | 25.40 | 25.21 | 25.07 | 24.95 | 24.83 | 24.80 | 24.84 | 24.76 |
| <b>72.5</b> | 20.93 | 20.70 | 20.48 | 20.63 | 20.78 | 20.93 | 21.10 | 21.28 | 21.49 | 21.60 |
| <b>75.0</b> | 17.46 | 17.64 | 17.79 | 17.93 | 18.09 | 18.21 | 18.43 | 18.52 | 18.72 | 18.83 |
| <b>77.5</b> | 14.83 | 14.98 | 15.12 | 15.25 | 15.38 | 15.50 | 15.60 | 15.79 | 15.95 | 16.05 |
| <b>80.0</b> | 12.21 | 12.34 | 12.47 | 12.59 | 12.69 | 12.80 | 12.88 | 13.03 | 13.19 | 13.28 |
| <b>82.5</b> | 9.63  | 9.73  | 9.83  | 9.93  | 10.02 | 10.10 | 10.19 | 10.29 | 10.43 | 10.51 |
| <b>85.0</b> | 7.05  | 7.19  | 7.21  | 7.28  | 7.35  | 7.42  | 7.47  | 7.57  | 7.68  | 7.74  |
| <b>87.5</b> | 4.48  | 4.53  | 4.58  | 4.64  | 4.69  | 4.73  | 4.77  | 4.85  | 4.93  | 4.98  |
| <b>90.0</b> | 1.92  | 1.94  | 1.97  | 2.00  | 2.03  | 2.05  | 2.08  | 2.13  | 2.18  | 2.21  |

**Vert. Horizontal Angles**

|             | <u><b>350.0</b></u> | <u><b>352.5</b></u> | <u><b>355.0</b></u> | <u><b>357.5</b></u> | <u><b>360.0</b></u> |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>0.0</b>  | 471.08              | 471.08              | 471.08              | 471.08              | 471.08              |
| <b>2.5</b>  | 444.78              | 444.79              | 444.85              | 444.96              | 445.12              |
| <b>5.0</b>  | 413.32              | 413.06              | 412.95              | 413.00              | 413.20              |
| <b>7.5</b>  | 365.15              | 364.23              | 363.65              | 363.38              | 363.43              |
| <b>10.0</b> | 311.28              | 309.75              | 308.63              | 307.96              | 307.71              |
| <b>12.5</b> | 279.72              | 278.51              | 277.55              | 277.02              | 276.75              |
| <b>15.0</b> | 249.65              | 248.12              | 246.97              | 246.20              | 245.80              |
| <b>17.5</b> | 219.62              | 217.80              | 216.38              | 215.39              | 214.83              |
| <b>20.0</b> | 189.64              | 187.52              | 185.84              | 184.62              | 183.87              |
| <b>22.5</b> | 173.51              | 172.13              | 170.99              | 170.11              | 169.51              |
| <b>25.0</b> | 159.05              | 157.66              | 156.54              | 155.67              | 155.15              |
| <b>27.5</b> | 144.48              | 143.10              | 142.05              | 141.26              | 140.78              |
| <b>30.0</b> | 129.82              | 128.47              | 127.49              | 126.80              | 126.41              |
| <b>32.5</b> | 120.82              | 119.88              | 119.18              | 118.66              | 118.42              |
| <b>35.0</b> | 112.81              | 111.89              | 111.13              | 110.58              | 110.43              |
| <b>37.5</b> | 104.75              | 103.87              | 103.06              | 102.49              | 102.44              |
| <b>40.0</b> | 96.68               | 95.85               | 95.01               | 94.40               | 94.44               |
| <b>42.5</b> | 88.75               | 87.79               | 86.95               | 86.30               | 86.45               |
| <b>45.0</b> | 80.62               | 80.05               | 79.32               | 78.69               | 78.94               |
| <b>47.5</b> | 74.13               | 73.71               | 73.15               | 72.60               | 72.83               |
| <b>50.0</b> | 68.31               | 67.96               | 67.52               | 67.03               | 67.20               |
| <b>52.5</b> | 62.65               | 62.18               | 61.87               | 61.46               | 61.57               |
| <b>55.0</b> | 56.62               | 56.40               | 56.20               | 55.89               | 55.94               |
| <b>57.5</b> | 50.74               | 50.60               | 50.52               | 50.32               | 50.31               |
| <b>60.0</b> | 44.84               | 44.80               | 44.82               | 44.74               | 44.67               |
| <b>62.5</b> | 39.70               | 39.73               | 39.78               | 39.77               | 39.74               |
| <b>65.0</b> | 34.70               | 34.72               | 34.78               | 34.81               | 34.81               |
| <b>67.5</b> | 29.69               | 29.72               | 29.77               | 29.85               | 29.88               |
| <b>70.0</b> | 24.70               | 24.72               | 24.76               | 24.88               | 24.95               |
| <b>72.5</b> | 21.67               | 21.78               | 21.91               | 22.06               | 22.14               |
| <b>75.0</b> | 18.89               | 19.00               | 19.11               | 19.25               | 19.33               |
| <b>77.5</b> | 16.12               | 16.21               | 16.32               | 16.45               | 16.51               |
| <b>80.0</b> | 13.34               | 13.44               | 13.53               | 13.64               | 13.70               |
| <b>82.5</b> | 10.57               | 10.65               | 10.73               | 10.84               | 10.89               |
| <b>85.0</b> | 7.81                | 7.87                | 7.94                | 8.03                | 8.08                |
| <b>87.5</b> | 5.04                | 5.10                | 5.15                | 5.23                | 5.27                |
| <b>90.0</b> | 2.27                | 2.32                | 2.36                | 2.42                | 2.46                |

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

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp  | %Fixt  |
|---------|--------|--------|--------|
| 0-20    | 129.62 | 13.70  | 13.70  |
| 0-30    | 263.91 | 27.80  | 27.80  |
| 0-40    | 462.61 | 48.80  | 48.70  |
| 0-60    | 849.87 | 89.60  | 89.60  |
| 0-80    | 942.09 | 99.30  | 99.30  |
| 0-90    | 948.95 | 100.00 | 100.00 |
| 10-90   | 910.12 | 95.90  | 95.90  |
| 20-40   | 333.00 | 35.10  | 35.10  |
| 20-50   | 562.69 | 59.30  | 59.30  |
| 40-70   | 456.00 | 48.10  | 48.10  |
| 60-80   | 92.22  | 9.70   | 9.70   |
| 70-80   | 23.48  | 2.50   | 2.50   |
| 80-90   | 6.86   | 0.70   | 0.70   |
| 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   | 948.95 | 100.00 | 100.00 |

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 38.83  |
| 10-20   | 90.78  |
| 20-30   | 134.29 |
| 30-40   | 198.70 |
| 40-50   | 229.69 |
| 50-60   | 157.56 |
| 60-70   | 68.75  |
| 70-80   | 23.48  |
| 80-90   | 6.86   |
| 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 : CRVRSEHO.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 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |
| 2  | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 85  | 82  | 78  | 83  | 79  | 76  | 74  |
| 3  | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |
| 4  | 85  | 74  | 66  | 60  | 83  | 73  | 65  | 59  | 70  | 64  | 59  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |
| 5  | 79  | 66  | 58  | 52  | 77  | 65  | 57  | 51  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 48  |
| 6  | 73  | 60  | 51  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 45  | 56  | 49  | 44  | 54  | 48  | 44  | 42  |
| 7  | 67  | 54  | 46  | 40  | 66  | 53  | 45  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |
| 8  | 63  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |
| 9  | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 36  | 32  | 42  | 36  | 31  | 41  | 36  | 31  | 29  |
| 10 | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 28  | 38  | 33  | 28  | 27  |

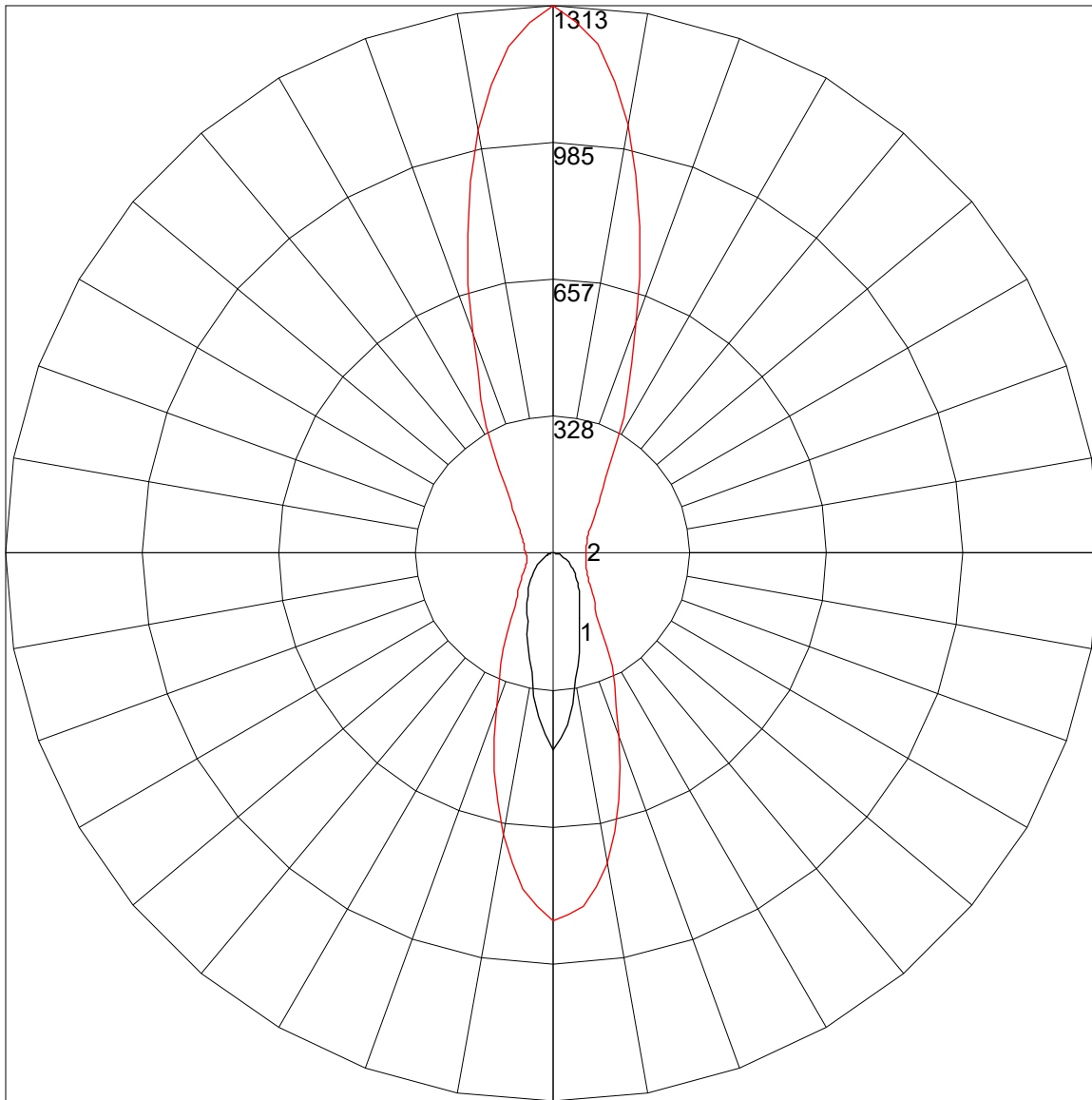
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CRVRSEHO.IES**

**UGR TABLE - CORRECTED**

| Reflectances   |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Ceiling Cavity |      | 70                   | 70   | 50   | 50   | 30   | 70                 | 70   | 50   | 50   | 30   |
| Walls          |      | 50                   | 30   | 50   | 30   | 30   | 50                 | 30   | 50   | 30   | 30   |
| Floor Cavity   |      | 20                   | 20   | 20   | 20   | 20   | 20                 | 20   | 20   | 20   | 20   |
| Room Size      |      | UGR Viewed Crosswise |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
| X=2H           | Y=2H | 15.5                 | 16.8 | 15.8 | 17.1 | 17.5 | 5.8                | 7.1  | 6.1  | 7.4  | 7.7  |
|                | 3H   | 17.0                 | 18.2 | 17.4 | 18.5 | 18.9 | 6.2                | 7.4  | 6.6  | 7.7  | 8.1  |
|                | 4H   | 17.7                 | 18.8 | 18.1 | 19.1 | 19.5 | 6.5                | 7.6  | 6.9  | 8.0  | 8.4  |
|                | 6H   | 18.3                 | 19.4 | 18.7 | 19.7 | 20.1 | 7.0                | 8.1  | 7.5  | 8.5  | 8.8  |
|                | 8H   | 18.6                 | 19.6 | 19.0 | 20.0 | 20.4 | 7.4                | 8.4  | 7.8  | 8.8  | 9.2  |
|                | 12H  | 18.9                 | 19.8 | 19.3 | 20.2 | 20.6 | 7.8                | 8.7  | 8.2  | 9.1  | 9.6  |
| 4H             | 2H   | 15.6                 | 16.8 | 16.0 | 17.1 | 17.5 | 9.2                | 10.3 | 9.6  | 10.7 | 11.1 |
|                | 3H   | 17.4                 | 18.3 | 17.8 | 18.7 | 19.1 | 10.3               | 11.2 | 10.7 | 11.6 | 12.0 |
|                | 4H   | 18.2                 | 19.0 | 18.6 | 19.5 | 19.9 | 10.7               | 11.5 | 11.1 | 12.0 | 12.4 |
|                | 6H   | 19.0                 | 19.8 | 19.5 | 20.2 | 20.7 | 11.1               | 11.9 | 11.6 | 12.3 | 12.8 |
|                | 8H   | 19.4                 | 20.1 | 19.9 | 20.6 | 21.0 | 11.4               | 12.1 | 11.8 | 12.5 | 13.0 |
|                | 12H  | 19.8                 | 20.4 | 20.3 | 20.9 | 21.4 | 11.7               | 12.3 | 12.2 | 12.8 | 13.3 |
| 8H             | 4H   | 18.3                 | 19.0 | 18.7 | 19.4 | 19.9 | 12.2               | 12.9 | 12.7 | 13.3 | 13.8 |
|                | 6H   | 19.3                 | 19.9 | 19.8 | 20.4 | 20.8 | 13.0               | 13.5 | 13.5 | 14.0 | 14.5 |
|                | 8H   | 19.8                 | 20.3 | 20.3 | 20.8 | 21.3 | 13.3               | 13.8 | 13.9 | 14.4 | 14.8 |
|                | 12H  | 20.3                 | 20.8 | 20.8 | 21.3 | 21.8 | 13.8               | 14.2 | 14.3 | 14.7 | 15.3 |
| 12H            | 4H   | 18.3                 | 18.9 | 18.7 | 19.4 | 19.8 | 12.5               | 13.1 | 13.0 | 13.6 | 14.1 |
|                | 6H   | 19.3                 | 19.8 | 19.9 | 20.3 | 20.8 | 13.5               | 14.0 | 14.0 | 14.4 | 15.0 |
|                | 8H   | 19.9                 | 20.3 | 20.4 | 20.8 | 21.4 | 14.0               | 14.4 | 14.5 | 14.9 | 15.5 |

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 1313.25 Located At Horizontal Angle = 90, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)