



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VPJE HI UV FP 740.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Ningbo TengLi Testing Co., Ltd

[TESTDATE] 07 December 2017

[ISSUEDATE] 2017-12-07 14:36:46

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] PROBRITE

[LUMINAIRE] VPJE HI UV FP 740

[OTHER]

[OTHER] Gamma(deg) Fz(lm) Ft(lm) %Lum %Lamp

[OTHER] 0- 10 37.47 37.47 2.64 2.64

[OTHER] 10- 20 89.58 127.05 8.95 8.95

[OTHER] 20- 30 125.66 252.71 17.79 17.79

[OTHER] 30- 40 206.68 459.39 32.35 32.35

[OTHER] 40- 50 214.05 673.44 47.42 47.42

[OTHER] 50- 60 257.32 930.76 65.54 65.54

[OTHER] 60- 70 224.41 1155.17 81.34 81.34

[OTHER] 70- 80 131.40 1286.57 90.59 90.59

[OTHER] 80- 90 60.65 1347.22 94.86 94.86

[OTHER] 90-100 25.08 1372.30 96.63 96.63

[OTHER] 100-110 16.42 1388.71 97.78 97.78

[OTHER] 110-120 13.02 1401.73 98.70 98.70

[OTHER] 120-130 9.04 1410.77 99.34 99.34

[OTHER] 130-140 4.92 1415.69 99.68 99.68

[OTHER] 140-150 3.15 1418.84 99.90 99.90

[OTHER] 150-160 1.01 1419.85 99.98 99.98

[OTHER] 160-170 0.31 1420.16 100.00 100.00

[OTHER] 170-180 0.04 1420.20 100.00 100.00

[OTHER]

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CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1420 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 106 |
| Total Luminaire Watts | 13.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.68 |
| Spacing Criterion (90-270) | 1.68 |
| Spacing Criterion (Diagonal) | 1.46 |
| Basic Luminous Shape | Point |
| Luminous Length (0-180) | 0.00 m |
| Luminous Width (90-270) | 0.00 m |
| Luminous Height | 0.00 m |

LUMINANCE DATA (cd/sq.m)

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

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|-----------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 |
| 1 | 315.74 | 320.29 | 326.87 | 332.88 | 334.86 | 331.70 | 327.68 | 321.33 | 318.34 | 316.38 |
| 2 | 343.66 | 333.71 | 343.51 | 370.61 | 384.73 | 380.69 | 354.17 | 330.66 | 335.19 | 334.58 |
| 3 | 390.79 | 363.58 | 353.97 | 404.53 | 434.43 | 420.20 | 373.23 | 345.67 | 376.34 | 384.24 |
| 4 | 435.20 | 399.27 | 359.58 | 424.60 | 456.48 | 448.02 | 390.95 | 355.55 | 411.19 | 429.42 |
| 5 | 451.61 | 422.61 | 357.47 | 430.21 | 451.83 | 449.81 | 393.87 | 361.87 | 435.46 | 440.47 |
| 6 | 445.75 | 434.64 | 348.66 | 430.77 | 449.11 | 441.83 | 392.02 | 365.22 | 434.62 | 439.52 |
| 7 | 446.64 | 434.29 | 342.19 | 431.32 | 450.96 | 437.21 | 389.45 | 369.70 | 428.47 | 426.16 |
| 8 | 439.77 | 428.50 | 335.88 | 429.07 | 448.45 | 436.73 | 384.80 | 364.79 | 418.62 | 412.76 |
| 9 | 427.69 | 427.50 | 327.12 | 417.44 | 434.67 | 428.28 | 378.71 | 357.52 | 401.07 | 393.01 |
| 10 | 412.66 | 420.28 | 316.47 | 402.09 | 419.34 | 413.77 | 371.70 | 353.06 | 389.25 | 378.91 |
| 11 | 407.02 | 404.53 | 307.45 | 393.67 | 407.47 | 404.85 | 363.33 | 348.91 | 380.44 | 367.51 |
| 12 | 400.38 | 391.20 | 302.28 | 385.35 | 396.78 | 391.83 | 354.60 | 343.80 | 373.60 | 356.19 |
| 13 | 389.19 | 377.72 | 296.69 | 372.69 | 380.58 | 378.74 | 342.80 | 335.07 | 363.00 | 344.59 |
| 14 | 372.81 | 359.80 | 286.81 | 349.70 | 367.10 | 364.79 | 329.36 | 327.14 | 350.08 | 334.95 |
| 15 | 353.29 | 341.37 | 275.99 | 331.62 | 354.24 | 348.12 | 315.86 | 314.94 | 332.69 | 324.33 |
| 16 | 336.87 | 327.73 | 266.67 | 311.04 | 340.67 | 332.39 | 300.14 | 302.61 | 320.89 | 311.94 |
| 17 | 325.37 | 318.91 | 259.56 | 290.52 | 326.72 | 316.46 | 290.54 | 292.13 | 309.21 | 301.43 |
| 18 | 316.41 | 306.51 | 248.83 | 268.40 | 301.46 | 298.42 | 278.29 | 283.72 | 300.63 | 295.12 |
| 19 | 303.08 | 288.72 | 237.18 | 252.25 | 274.29 | 277.55 | 261.69 | 268.74 | 292.72 | 289.85 |
| 20 | 285.00 | 267.49 | 231.32 | 246.92 | 260.84 | 265.91 | 248.52 | 255.84 | 283.57 | 282.50 |
| 21 | 272.15 | 261.33 | 234.17 | 260.68 | 269.66 | 270.43 | 249.07 | 254.38 | 279.00 | 275.94 |
| 22 | 273.93 | 272.41 | 240.55 | 275.66 | 287.45 | 286.72 | 261.45 | 263.26 | 281.30 | 276.30 |
| 23 | 285.24 | 286.72 | 248.30 | 287.52 | 300.19 | 298.36 | 269.60 | 269.70 | 286.14 | 281.39 |
| 24 | 293.95 | 294.03 | 248.92 | 289.88 | 299.54 | 296.89 | 268.16 | 269.46 | 286.64 | 282.59 |
| 25 | 294.90 | 290.86 | 244.91 | 283.64 | 293.54 | 290.70 | 261.55 | 264.61 | 284.38 | 279.82 |
| 26 | 291.46 | 283.75 | 240.01 | 273.64 | 286.61 | 283.98 | 254.01 | 258.42 | 281.59 | 277.80 |
| 27 | 287.73 | 277.44 | 235.57 | 265.58 | 281.60 | 279.21 | 249.17 | 254.33 | 279.61 | 277.23 |
| 28 | 286.11 | 275.59 | 235.31 | 265.02 | 282.99 | 283.12 | 251.40 | 255.36 | 281.96 | 279.11 |
| 29 | 291.17 | 284.65 | 244.58 | 281.65 | 300.64 | 301.80 | 264.46 | 266.44 | 292.51 | 286.64 |
| 30 | 308.88 | 305.68 | 258.67 | 309.11 | 322.79 | 324.29 | 282.14 | 284.60 | 310.94 | 300.63 |
| 31 | 328.53 | 327.65 | 274.08 | 332.22 | 340.83 | 343.44 | 299.29 | 302.56 | 329.76 | 320.00 |
| 32 | 343.68 | 343.27 | 286.86 | 347.44 | 355.12 | 356.62 | 311.74 | 316.01 | 343.29 | 334.22 |
| 33 | 355.94 | 354.15 | 294.01 | 354.88 | 363.62 | 363.00 | 316.87 | 323.15 | 350.71 | 342.62 |
| 34 | 362.63 | 359.84 | 294.56 | 354.52 | 367.20 | 365.68 | 318.84 | 326.31 | 354.38 | 346.30 |
| 35 | 364.66 | 363.17 | 293.43 | 350.24 | 367.64 | 366.23 | 319.79 | 327.41 | 355.63 | 347.88 |
| 36 | 364.78 | 363.77 | 292.10 | 345.64 | 366.26 | 364.21 | 319.02 | 327.94 | 355.89 | 348.88 |
| 37 | 363.27 | 361.35 | 290.37 | 341.31 | 363.65 | 361.18 | 316.66 | 326.93 | 354.82 | 348.30 |
| 38 | 360.11 | 357.71 | 287.70 | 337.61 | 359.05 | 356.72 | 313.31 | 324.29 | 352.09 | 345.91 |
| 39 | 355.34 | 352.25 | 284.02 | 333.18 | 352.67 | 350.49 | 308.95 | 320.32 | 347.14 | 341.78 |
| 40 | 347.18 | 343.68 | 277.72 | 325.34 | 342.41 | 341.19 | 301.11 | 313.89 | 340.66 | 336.15 |
| 41 | 336.10 | 331.28 | 268.35 | 311.95 | 327.78 | 327.37 | 289.66 | 303.20 | 331.33 | 327.50 |
| 42 | 321.89 | 314.79 | 255.37 | 294.43 | 309.80 | 310.37 | 275.06 | 289.50 | 318.78 | 316.32 |
| 43 | 303.98 | 295.86 | 241.46 | 276.94 | 291.84 | 293.32 | 259.82 | 274.98 | 304.30 | 303.12 |
| 44 | 286.65 | 280.33 | 230.27 | 263.47 | 277.69 | 279.63 | 247.04 | 262.30 | 290.56 | 289.91 |
| 45 | 274.58 | 270.46 | 222.55 | 254.68 | 269.66 | 271.42 | 238.63 | 253.73 | 280.74 | 279.58 |
| 46 | 269.04 | 266.67 | 219.14 | 251.41 | 267.13 | 268.39 | 235.89 | 251.42 | 276.63 | 273.92 |
| 47 | 267.51 | 266.90 | 221.26 | 253.41 | 269.27 | 270.98 | 237.05 | 252.78 | 277.24 | 273.85 |
| 48 | 271.03 | 273.02 | 227.50 | 260.96 | 277.71 | 278.58 | 242.08 | 257.43 | 281.03 | 277.06 |
| 49 | 279.91 | 284.48 | 236.34 | 272.25 | 288.53 | 288.96 | 249.95 | 265.61 | 288.63 | 283.57 |
| 50 | 291.49 | 296.83 | 246.02 | 283.89 | 299.56 | 299.67 | 258.83 | 275.01 | 298.32 | 292.80 |
| 51 | 301.71 | 307.32 | 253.80 | 293.46 | 309.16 | 309.19 | 266.63 | 283.92 | 306.98 | 301.97 |
| 52 | 308.68 | 314.09 | 257.79 | 298.45 | 314.21 | 313.68 | 270.79 | 289.27 | 312.21 | 308.09 |
| 53 | 311.86 | 315.61 | 258.11 | 298.16 | 313.84 | 313.31 | 270.34 | 290.30 | 313.79 | 310.64 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 54 | 311.15 | 314.54 | 256.68 | 296.02 | 311.80 | 311.03 | 268.15 | 288.40 | 313.22 | 310.55 |
| 55 | 309.52 | 312.58 | 254.72 | 293.94 | 309.70 | 308.57 | 265.39 | 286.59 | 311.52 | 309.08 |
| 56 | 307.37 | 310.45 | 252.46 | 291.62 | 307.01 | 305.94 | 262.58 | 284.72 | 309.75 | 306.73 |
| 57 | 304.26 | 307.41 | 249.32 | 287.81 | 302.85 | 301.94 | 258.69 | 281.53 | 307.32 | 304.45 |
| 58 | 299.85 | 302.38 | 244.74 | 282.24 | 296.63 | 296.76 | 253.52 | 276.86 | 303.17 | 300.52 |
| 59 | 293.73 | 295.81 | 239.21 | 275.75 | 289.81 | 289.89 | 247.34 | 271.28 | 297.71 | 295.14 |
| 60 | 286.55 | 288.29 | 233.21 | 268.36 | 282.11 | 282.22 | 240.43 | 264.70 | 291.11 | 288.99 |
| 61 | 278.64 | 280.16 | 226.79 | 260.68 | 273.40 | 274.00 | 233.14 | 257.63 | 283.56 | 281.89 |
| 62 | 270.17 | 271.37 | 219.75 | 251.84 | 264.06 | 264.88 | 225.10 | 249.81 | 275.18 | 274.43 |
| 63 | 260.91 | 261.61 | 212.15 | 242.90 | 253.84 | 254.98 | 216.94 | 241.01 | 266.40 | 265.79 |
| 64 | 251.00 | 251.36 | 203.97 | 233.19 | 243.23 | 244.59 | 207.77 | 231.89 | 256.65 | 256.90 |
| 65 | 240.62 | 240.83 | 195.85 | 222.71 | 232.34 | 234.11 | 198.74 | 222.18 | 246.30 | 247.00 |
| 66 | 229.85 | 230.02 | 186.74 | 212.13 | 221.41 | 222.64 | 188.98 | 212.02 | 235.49 | 236.93 |
| 67 | 218.86 | 218.66 | 177.80 | 201.57 | 210.35 | 211.36 | 179.51 | 201.77 | 224.58 | 226.65 |
| 68 | 207.43 | 207.16 | 168.97 | 190.84 | 199.15 | 200.00 | 169.69 | 191.16 | 213.53 | 215.97 |
| 69 | 195.65 | 195.18 | 159.36 | 179.05 | 187.07 | 187.50 | 159.44 | 180.11 | 202.07 | 204.73 |
| 70 | 183.56 | 183.03 | 149.97 | 168.05 | 175.20 | 175.35 | 148.94 | 168.72 | 189.96 | 192.94 |
| 71 | 172.15 | 171.74 | 141.10 | 157.56 | 163.94 | 163.89 | 139.03 | 158.04 | 178.27 | 181.39 |
| 72 | 160.89 | 160.72 | 132.68 | 147.52 | 153.15 | 152.86 | 129.69 | 147.70 | 166.77 | 170.41 |
| 73 | 149.63 | 149.51 | 123.77 | 137.16 | 141.53 | 141.73 | 120.23 | 137.04 | 155.52 | 159.55 |
| 74 | 138.23 | 138.24 | 114.84 | 126.74 | 130.50 | 130.55 | 111.03 | 126.57 | 143.94 | 148.36 |
| 75 | 127.06 | 127.09 | 106.38 | 116.70 | 120.01 | 119.88 | 102.10 | 116.42 | 132.83 | 137.64 |
| 76 | 116.58 | 116.70 | 98.10 | 107.20 | 109.99 | 109.64 | 93.92 | 106.95 | 122.27 | 127.02 |
| 77 | 106.87 | 107.11 | 90.40 | 98.10 | 100.48 | 100.63 | 86.35 | 98.17 | 112.12 | 116.82 |
| 78 | 97.62 | 97.86 | 82.42 | 89.26 | 91.67 | 91.71 | 79.19 | 89.73 | 102.56 | 107.30 |
| 79 | 88.77 | 88.96 | 75.47 | 81.45 | 83.59 | 83.78 | 72.71 | 82.04 | 93.43 | 98.16 |
| 80 | 81.22 | 81.37 | 69.42 | 74.77 | 76.48 | 76.94 | 67.17 | 75.44 | 85.57 | 89.86 |
| 81 | 74.58 | 74.68 | 64.12 | 68.72 | 70.27 | 70.82 | 62.23 | 69.56 | 78.76 | 82.60 |
| 82 | 68.51 | 68.63 | 59.34 | 63.32 | 64.53 | 65.21 | 57.76 | 64.12 | 72.33 | 75.92 |
| 83 | 63.07 | 63.24 | 55.11 | 58.59 | 59.63 | 60.36 | 53.66 | 59.38 | 66.79 | 69.96 |
| 84 | 58.26 | 58.44 | 51.33 | 54.38 | 55.16 | 55.95 | 50.03 | 55.10 | 61.66 | 64.76 |
| 85 | 53.80 | 54.13 | 47.90 | 50.63 | 51.12 | 51.98 | 46.65 | 51.23 | 57.13 | 59.91 |
| 86 | 49.91 | 50.25 | 44.72 | 47.14 | 47.55 | 48.44 | 43.73 | 47.81 | 53.06 | 55.59 |
| 87 | 46.39 | 46.77 | 41.96 | 44.16 | 44.35 | 45.25 | 41.08 | 44.66 | 49.33 | 51.71 |
| 88 | 43.21 | 43.63 | 39.38 | 41.37 | 41.44 | 42.36 | 38.71 | 41.90 | 45.96 | 48.20 |
| 89 | 40.37 | 40.82 | 37.08 | 38.95 | 38.94 | 39.81 | 36.41 | 39.33 | 42.90 | 44.99 |
| 90 | 38.03 | 38.51 | 35.14 | 36.51 | 36.74 | 37.60 | 34.42 | 37.03 | 40.28 | 42.11 |
| 91 | 35.68 | 36.47 | 33.40 | 29.65 | 33.28 | 34.51 | 32.82 | 35.20 | 37.99 | 39.62 |
| 92 | 32.25 | 33.91 | 28.41 | 21.48 | 23.41 | 23.94 | 30.10 | 33.46 | 35.42 | 37.49 |
| 93 | 27.80 | 28.29 | 22.86 | 16.40 | 18.22 | 18.20 | 24.18 | 30.38 | 31.61 | 34.48 |
| 94 | 23.52 | 23.66 | 19.42 | 14.35 | 13.16 | 13.49 | 20.07 | 25.42 | 26.82 | 28.19 |
| 95 | 20.56 | 20.60 | 16.79 | 19.01 | 16.11 | 17.73 | 17.20 | 21.80 | 22.94 | 23.41 |
| 96 | 18.37 | 18.46 | 13.60 | 20.82 | 19.43 | 20.52 | 13.95 | 19.26 | 20.25 | 20.34 |
| 97 | 16.69 | 16.61 | 13.27 | 22.52 | 20.69 | 22.52 | 12.92 | 17.32 | 18.35 | 18.16 |
| 98 | 14.53 | 13.82 | 14.40 | 22.07 | 21.88 | 22.47 | 14.67 | 15.35 | 16.70 | 16.21 |
| 99 | 12.40 | 12.79 | 14.86 | 20.29 | 21.41 | 21.32 | 15.88 | 12.68 | 14.34 | 13.13 |
| 100 | 12.48 | 12.38 | 15.06 | 19.80 | 19.63 | 19.95 | 16.22 | 11.98 | 12.59 | 12.39 |
| 101 | 14.14 | 12.16 | 14.98 | 19.36 | 18.94 | 19.07 | 16.42 | 11.31 | 13.07 | 11.64 |
| 102 | 15.39 | 12.13 | 14.61 | 20.44 | 18.28 | 19.44 | 16.42 | 10.89 | 14.72 | 11.14 |
| 103 | 16.18 | 12.16 | 13.84 | 22.10 | 18.95 | 21.64 | 15.65 | 10.58 | 15.87 | 10.72 |
| 104 | 16.59 | 12.43 | 12.76 | 22.22 | 21.16 | 22.26 | 14.52 | 10.28 | 16.52 | 10.39 |
| 105 | 16.81 | 11.87 | 11.20 | 21.90 | 21.50 | 22.09 | 12.76 | 9.69 | 16.79 | 10.09 |
| 106 | 16.65 | 11.75 | 10.29 | 21.22 | 21.48 | 21.49 | 11.91 | 8.68 | 16.79 | 8.59 |
| 107 | 17.15 | 11.75 | 10.13 | 20.63 | 20.92 | 20.75 | 11.68 | 8.30 | 16.98 | 8.54 |
| 108 | 16.87 | 11.45 | 10.23 | 19.87 | 20.42 | 20.19 | 11.67 | 7.75 | 17.17 | 8.50 |
| 109 | 16.33 | 10.42 | 10.45 | 19.38 | 19.83 | 19.60 | 11.89 | 6.97 | 16.77 | 8.15 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 110 | 15.55 | 9.44 | 11.45 | 18.96 | 19.33 | 19.00 | 13.08 | 6.04 | 16.16 | 7.43 |
| 111 | 14.34 | 8.50 | 12.44 | 18.49 | 18.95 | 18.52 | 14.16 | 5.42 | 15.14 | 6.63 |
| 112 | 13.25 | 7.90 | 12.98 | 18.14 | 18.62 | 18.20 | 14.70 | 5.48 | 14.04 | 6.21 |
| 113 | 12.21 | 7.73 | 13.25 | 17.67 | 18.28 | 17.92 | 15.02 | 5.93 | 12.94 | 6.55 |
| 114 | 12.89 | 7.35 | 13.37 | 17.31 | 18.00 | 17.62 | 15.14 | 5.97 | 12.58 | 6.26 |
| 115 | 13.24 | 7.32 | 13.34 | 16.99 | 17.04 | 17.33 | 14.72 | 6.64 | 13.73 | 6.28 |
| 116 | 13.19 | 7.29 | 12.99 | 16.72 | 14.49 | 17.09 | 14.38 | 7.34 | 13.68 | 6.70 |
| 117 | 13.94 | 7.45 | 12.64 | 16.45 | 12.35 | 16.87 | 14.13 | 7.95 | 14.05 | 7.00 |
| 118 | 14.82 | 7.67 | 12.29 | 16.14 | 12.09 | 16.62 | 13.73 | 8.46 | 14.96 | 7.35 |
| 119 | 15.70 | 7.70 | 12.04 | 15.82 | 9.85 | 16.27 | 13.26 | 8.77 | 15.86 | 7.61 |
| 120 | 16.65 | 7.72 | 11.85 | 15.49 | 7.81 | 15.80 | 12.78 | 8.72 | 16.74 | 7.37 |
| 121 | 17.45 | 7.88 | 11.49 | 15.09 | 6.19 | 15.19 | 12.36 | 8.38 | 17.76 | 7.36 |
| 122 | 17.65 | 8.05 | 11.22 | 14.60 | 5.53 | 14.51 | 11.92 | 7.67 | 18.31 | 6.91 |
| 123 | 17.87 | 8.13 | 10.81 | 13.85 | 6.33 | 13.60 | 11.52 | 7.10 | 18.58 | 6.41 |
| 124 | 17.69 | 8.24 | 10.29 | 12.83 | 6.61 | 12.44 | 11.11 | 6.55 | 18.36 | 6.12 |
| 125 | 17.39 | 8.40 | 9.76 | 11.74 | 6.48 | 11.13 | 10.73 | 6.19 | 18.14 | 6.12 |
| 126 | 17.04 | 8.65 | 9.12 | 10.69 | 6.21 | 9.77 | 10.42 | 5.95 | 17.81 | 6.09 |
| 127 | 16.73 | 8.97 | 8.60 | 9.77 | 5.81 | 8.44 | 10.05 | 5.86 | 17.51 | 6.18 |
| 128 | 16.49 | 9.08 | 8.11 | 8.94 | 5.37 | 7.08 | 9.74 | 5.78 | 17.22 | 6.23 |
| 129 | 16.27 | 9.40 | 7.70 | 7.92 | 4.76 | 5.58 | 9.42 | 5.73 | 16.94 | 6.39 |
| 130 | 15.98 | 9.49 | 7.38 | 6.72 | 4.34 | 4.22 | 9.06 | 5.65 | 16.69 | 6.39 |
| 131 | 15.73 | 9.81 | 6.96 | 5.37 | 3.57 | 2.96 | 8.70 | 5.59 | 16.37 | 6.34 |
| 132 | 15.53 | 9.95 | 6.48 | 3.83 | 3.59 | 2.15 | 8.38 | 5.59 | 16.04 | 6.34 |
| 133 | 15.29 | 10.23 | 5.90 | 2.73 | 3.14 | 1.41 | 8.02 | 5.59 | 15.77 | 6.39 |
| 134 | 14.99 | 10.41 | 5.29 | 2.03 | 2.23 | 1.31 | 7.49 | 5.59 | 15.58 | 6.45 |
| 135 | 14.72 | 10.55 | 4.76 | 1.96 | 1.54 | 2.02 | 6.91 | 5.64 | 15.25 | 6.61 |
| 136 | 14.47 | 10.77 | 4.28 | 1.99 | 1.47 | 3.06 | 6.32 | 5.83 | 15.01 | 6.66 |
| 137 | 14.15 | 10.80 | 3.96 | 2.37 | 1.84 | 4.18 | 5.71 | 6.02 | 14.68 | 6.72 |
| 138 | 13.85 | 10.80 | 3.71 | 2.88 | 2.23 | 5.49 | 5.10 | 6.16 | 14.38 | 6.69 |
| 139 | 13.54 | 10.77 | 3.61 | 3.24 | 2.58 | 5.93 | 4.54 | 6.37 | 14.02 | 6.69 |
| 140 | 13.25 | 10.69 | 3.58 | 3.52 | 2.88 | 5.93 | 4.07 | 6.57 | 13.60 | 6.58 |
| 141 | 12.92 | 10.58 | 3.55 | 3.54 | 2.91 | 5.61 | 3.69 | 6.86 | 13.29 | 6.58 |
| 142 | 12.55 | 10.37 | 3.55 | 3.52 | 2.75 | 4.98 | 3.39 | 6.92 | 12.88 | 6.58 |
| 143 | 12.18 | 10.15 | 3.57 | 3.49 | 2.48 | 4.22 | 3.17 | 6.90 | 12.47 | 6.58 |
| 144 | 11.78 | 9.87 | 3.52 | 2.95 | 2.18 | 3.67 | 2.95 | 6.90 | 12.06 | 6.58 |
| 145 | 11.38 | 9.63 | 3.39 | 2.67 | 1.91 | 3.18 | 2.70 | 6.90 | 11.58 | 6.55 |
| 146 | 10.96 | 9.34 | 3.30 | 2.51 | 1.64 | 2.75 | 2.30 | 6.90 | 11.13 | 6.50 |
| 147 | 10.50 | 9.01 | 3.00 | 2.24 | 1.50 | 2.43 | 1.77 | 6.90 | 10.59 | 6.45 |
| 148 | 10.06 | 8.71 | 2.61 | 1.97 | 1.36 | 2.18 | 1.11 | 6.84 | 10.10 | 6.36 |
| 149 | 9.63 | 8.38 | 2.06 | 1.94 | 1.23 | 1.99 | 0.82 | 6.71 | 9.64 | 6.26 |
| 150 | 9.22 | 8.00 | 1.62 | 1.80 | 1.12 | 1.77 | 0.60 | 6.49 | 9.18 | 6.34 |
| 151 | 8.75 | 7.59 | 1.26 | 1.72 | 1.01 | 1.61 | 0.31 | 6.24 | 8.74 | 6.45 |
| 152 | 8.29 | 7.11 | 0.74 | 1.58 | 0.90 | 1.47 | 0.25 | 5.86 | 8.25 | 6.44 |
| 153 | 7.74 | 6.43 | 0.47 | 1.47 | 0.79 | 1.23 | 0.19 | 5.13 | 7.65 | 6.36 |
| 154 | 7.12 | 5.38 | 0.46 | 1.42 | 0.66 | 1.01 | 0.19 | 4.10 | 7.10 | 6.03 |
| 155 | 6.29 | 4.09 | 0.46 | 1.39 | 0.63 | 0.90 | 0.30 | 3.03 | 6.36 | 4.97 |
| 156 | 4.97 | 2.95 | 0.70 | 1.39 | 0.57 | 0.84 | 0.49 | 2.07 | 5.08 | 3.79 |
| 157 | 3.61 | 1.85 | 0.79 | 1.39 | 0.54 | 0.84 | 0.68 | 0.97 | 3.54 | 2.85 |
| 158 | 2.38 | 0.78 | 1.04 | 1.39 | 0.54 | 0.82 | 0.71 | 0.60 | 2.31 | 1.85 |
| 159 | 1.20 | 0.49 | 1.09 | 1.39 | 0.54 | 0.84 | 0.76 | 0.20 | 0.94 | 0.68 |
| 160 | 0.85 | 0.25 | 0.79 | 1.39 | 0.54 | 0.76 | 0.71 | 0.16 | 0.52 | 0.46 |
| 161 | 0.71 | 0.43 | 0.63 | 1.26 | 0.54 | 0.73 | 0.47 | 0.70 | 0.55 | 0.47 |
| 162 | 0.82 | 1.09 | 0.28 | 1.04 | 0.54 | 0.65 | 0.22 | 1.09 | 0.78 | 0.91 |
| 163 | 1.77 | 1.62 | 0.14 | 0.87 | 0.57 | 0.52 | 0.14 | 1.60 | 1.81 | 1.89 |
| 164 | 2.44 | 2.01 | 0.14 | 0.71 | 0.52 | 0.41 | 0.14 | 1.64 | 2.40 | 2.42 |
| 165 | 2.91 | 2.07 | 0.14 | 0.55 | 0.46 | 0.27 | 0.14 | 1.74 | 2.94 | 2.77 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 166 | 2.94 | 2.09 | 0.32 | 0.38 | 0.36 | 0.14 | 0.14 | 1.61 | 2.88 | 2.77 |
| 167 | 2.81 | 1.94 | 0.30 | 0.28 | 0.22 | 0.14 | 0.14 | 1.47 | 2.53 | 2.52 |
| 168 | 2.44 | 1.66 | 0.38 | 0.27 | 0.14 | 0.11 | 0.16 | 1.37 | 2.12 | 2.11 |
| 169 | 2.10 | 1.45 | 0.41 | 0.27 | 0.14 | 0.11 | 0.19 | 1.20 | 1.71 | 1.71 |
| 170 | 1.72 | 1.23 | 0.44 | 0.27 | 0.14 | 0.11 | 0.24 | 1.06 | 1.33 | 1.33 |
| 171 | 1.48 | 1.04 | 0.41 | 0.27 | 0.14 | 0.11 | 0.30 | 0.90 | 1.09 | 1.09 |
| 172 | 1.18 | 0.84 | 0.41 | 0.27 | 0.14 | 0.14 | 0.35 | 0.74 | 0.71 | 0.76 |
| 173 | 0.82 | 0.60 | 0.41 | 0.27 | 0.16 | 0.14 | 0.35 | 0.65 | 0.46 | 0.49 |
| 174 | 0.39 | 0.46 | 0.41 | 0.27 | 0.22 | 0.14 | 0.35 | 0.55 | 0.41 | 0.33 |
| 175 | 0.41 | 0.41 | 0.41 | 0.27 | 0.19 | 0.14 | 0.38 | 0.41 | 0.35 | 0.27 |
| 176 | 0.38 | 0.38 | 0.33 | 0.27 | 0.19 | 0.14 | 0.33 | 0.33 | 0.11 | 0.11 |
| 177 | 0.33 | 0.33 | 0.25 | 0.27 | 0.19 | 0.14 | 0.30 | 0.25 | 0.11 | 0.11 |
| 178 | 0.16 | 0.25 | 0.19 | 0.27 | 0.19 | 0.14 | 0.27 | 0.22 | 0.11 | 0.11 |
| 179 | 0.16 | 0.22 | 0.22 | 0.27 | 0.19 | 0.14 | 0.27 | 0.22 | 0.11 | 0.14 |
| 180 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |

Vert. Angles **Horizontal Angles**

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 | 314.34 |
| 1 | 314.10 | 310.32 | 308.67 | 308.95 | 309.98 | 312.29 | 315.74 |
| 2 | 327.00 | 315.95 | 311.77 | 312.80 | 316.88 | 333.50 | 343.66 |
| 3 | 352.91 | 323.71 | 342.93 | 338.70 | 330.60 | 370.49 | 390.79 |
| 4 | 376.94 | 337.66 | 382.49 | 372.49 | 339.39 | 400.67 | 435.20 |
| 5 | 392.17 | 345.77 | 409.20 | 402.04 | 342.26 | 414.79 | 451.61 |
| 6 | 400.08 | 351.09 | 423.74 | 417.17 | 343.37 | 415.87 | 445.75 |
| 7 | 394.62 | 355.41 | 413.75 | 420.59 | 342.01 | 420.70 | 446.64 |
| 8 | 386.16 | 356.07 | 412.56 | 417.25 | 339.36 | 417.79 | 439.77 |
| 9 | 368.22 | 348.59 | 401.28 | 402.69 | 333.88 | 407.60 | 427.69 |
| 10 | 354.02 | 340.31 | 383.97 | 385.67 | 325.79 | 395.06 | 412.66 |
| 11 | 344.03 | 332.42 | 369.74 | 371.08 | 316.22 | 382.95 | 407.02 |
| 12 | 333.48 | 326.00 | 356.15 | 361.36 | 308.54 | 373.35 | 400.38 |
| 13 | 322.29 | 318.90 | 348.35 | 348.64 | 301.76 | 361.80 | 389.19 |
| 14 | 310.52 | 311.24 | 338.91 | 334.01 | 293.94 | 350.37 | 372.81 |
| 15 | 297.13 | 300.42 | 326.26 | 320.56 | 284.67 | 333.58 | 353.29 |
| 16 | 284.62 | 287.89 | 312.04 | 310.47 | 275.49 | 316.80 | 336.87 |
| 17 | 272.88 | 275.43 | 299.28 | 301.88 | 267.59 | 303.56 | 325.37 |
| 18 | 265.04 | 266.97 | 293.75 | 295.59 | 262.16 | 295.36 | 316.41 |
| 19 | 260.31 | 263.99 | 289.38 | 291.82 | 256.52 | 286.48 | 303.08 |
| 20 | 255.78 | 259.18 | 284.08 | 287.02 | 251.08 | 275.58 | 285.00 |
| 21 | 250.60 | 254.64 | 278.08 | 278.78 | 243.58 | 262.69 | 272.15 |
| 22 | 249.12 | 253.99 | 274.61 | 273.86 | 241.24 | 262.12 | 273.93 |
| 23 | 253.67 | 257.67 | 276.22 | 277.31 | 245.75 | 270.72 | 285.24 |
| 24 | 255.96 | 260.40 | 280.21 | 283.27 | 251.39 | 279.38 | 293.95 |
| 25 | 252.77 | 259.23 | 281.02 | 285.12 | 252.45 | 280.84 | 294.90 |
| 26 | 249.95 | 256.07 | 279.04 | 283.39 | 250.65 | 277.52 | 291.46 |
| 27 | 246.59 | 252.44 | 276.91 | 281.05 | 247.13 | 273.40 | 287.73 |
| 28 | 244.37 | 250.32 | 276.91 | 279.01 | 243.36 | 269.32 | 286.11 |
| 29 | 247.57 | 251.58 | 280.18 | 281.29 | 242.43 | 270.12 | 291.17 |
| 30 | 257.54 | 261.71 | 291.54 | 293.26 | 249.35 | 284.30 | 308.88 |
| 31 | 271.85 | 278.17 | 311.57 | 312.69 | 261.58 | 302.19 | 328.53 |
| 32 | 283.34 | 292.61 | 327.76 | 328.71 | 273.61 | 318.28 | 343.68 |
| 33 | 291.85 | 304.24 | 339.84 | 340.53 | 284.32 | 331.32 | 355.94 |
| 34 | 295.80 | 311.34 | 346.83 | 348.63 | 291.79 | 338.36 | 362.63 |
| 35 | 296.78 | 315.06 | 351.08 | 352.84 | 294.96 | 341.96 | 364.66 |
| 36 | 297.18 | 317.00 | 352.60 | 354.57 | 296.79 | 343.23 | 364.78 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|
| 37 | 296.74 | 318.00 | 353.00 | 354.66 | 297.21 | 343.49 | 363.27 |
| 38 | 295.10 | 317.65 | 351.59 | 353.40 | 296.91 | 341.44 | 360.11 |
| 39 | 292.18 | 315.71 | 348.70 | 350.40 | 295.00 | 337.61 | 355.34 |
| 40 | 287.77 | 312.11 | 343.99 | 345.42 | 291.45 | 331.86 | 347.18 |
| 41 | 280.45 | 305.00 | 336.30 | 338.00 | 285.37 | 323.51 | 336.10 |
| 42 | 270.72 | 294.27 | 324.47 | 327.02 | 276.02 | 310.18 | 321.89 |
| 43 | 259.25 | 281.49 | 310.76 | 313.79 | 264.26 | 294.63 | 303.98 |
| 44 | 247.25 | 267.37 | 296.34 | 298.99 | 251.94 | 278.73 | 286.65 |
| 45 | 237.19 | 254.92 | 283.12 | 285.18 | 240.52 | 265.01 | 274.58 |
| 46 | 230.88 | 247.17 | 273.45 | 274.98 | 232.16 | 257.21 | 269.04 |
| 47 | 229.65 | 245.53 | 270.06 | 271.43 | 229.03 | 254.89 | 267.51 |
| 48 | 231.35 | 248.11 | 271.32 | 272.05 | 229.68 | 256.60 | 271.03 |
| 49 | 235.72 | 254.25 | 276.72 | 276.76 | 233.94 | 263.13 | 279.91 |
| 50 | 242.57 | 263.33 | 285.22 | 284.68 | 240.59 | 272.48 | 291.49 |
| 51 | 249.91 | 273.51 | 294.66 | 293.64 | 248.27 | 282.16 | 301.71 |
| 52 | 255.54 | 282.11 | 303.37 | 301.70 | 255.09 | 290.30 | 308.68 |
| 53 | 257.89 | 286.57 | 308.51 | 306.51 | 258.74 | 294.23 | 311.86 |
| 54 | 257.55 | 287.44 | 309.46 | 307.71 | 259.34 | 294.11 | 311.15 |
| 55 | 256.33 | 286.66 | 308.62 | 306.77 | 258.06 | 292.78 | 309.52 |
| 56 | 254.54 | 285.42 | 306.93 | 304.99 | 256.02 | 291.09 | 307.37 |
| 57 | 252.70 | 283.73 | 304.94 | 303.16 | 253.86 | 289.34 | 304.26 |
| 58 | 249.66 | 281.04 | 301.77 | 300.20 | 250.57 | 285.73 | 299.85 |
| 59 | 245.27 | 276.51 | 296.90 | 295.67 | 245.97 | 280.86 | 293.73 |
| 60 | 240.20 | 271.19 | 290.96 | 289.83 | 241.03 | 274.80 | 286.55 |
| 61 | 234.55 | 264.84 | 283.79 | 283.12 | 234.80 | 268.11 | 278.64 |
| 62 | 228.29 | 257.95 | 276.15 | 275.41 | 228.13 | 260.56 | 270.17 |
| 63 | 221.59 | 249.90 | 267.60 | 266.79 | 221.09 | 252.10 | 260.91 |
| 64 | 214.36 | 241.78 | 258.35 | 257.64 | 213.60 | 242.86 | 251.00 |
| 65 | 206.80 | 232.81 | 248.46 | 247.57 | 205.35 | 233.50 | 240.62 |
| 66 | 198.27 | 223.29 | 238.13 | 236.85 | 197.20 | 223.52 | 229.85 |
| 67 | 189.78 | 213.34 | 227.55 | 225.82 | 188.66 | 213.23 | 218.86 |
| 68 | 180.97 | 203.30 | 216.42 | 214.76 | 179.91 | 202.90 | 207.43 |
| 69 | 172.03 | 192.81 | 205.17 | 203.39 | 170.82 | 192.21 | 195.65 |
| 70 | 162.32 | 181.79 | 193.14 | 191.37 | 161.07 | 180.29 | 183.56 |
| 71 | 152.97 | 171.04 | 181.43 | 179.40 | 151.56 | 168.92 | 172.15 |
| 72 | 143.93 | 160.62 | 169.88 | 168.10 | 142.44 | 158.06 | 160.89 |
| 73 | 135.27 | 150.53 | 158.84 | 157.21 | 133.30 | 147.47 | 149.63 |
| 74 | 126.40 | 140.23 | 147.97 | 146.29 | 124.04 | 136.47 | 138.23 |
| 75 | 117.68 | 130.15 | 137.24 | 135.49 | 114.91 | 125.63 | 127.06 |
| 76 | 109.45 | 120.63 | 126.77 | 124.84 | 106.26 | 115.68 | 116.58 |
| 77 | 101.37 | 111.44 | 116.49 | 114.90 | 97.94 | 106.13 | 106.87 |
| 78 | 93.52 | 102.65 | 106.83 | 105.69 | 89.97 | 97.28 | 97.62 |
| 79 | 85.76 | 93.56 | 97.47 | 96.84 | 82.59 | 88.85 | 88.77 |
| 80 | 78.84 | 85.38 | 89.09 | 88.84 | 76.03 | 81.55 | 81.22 |
| 81 | 72.77 | 78.31 | 81.82 | 81.69 | 70.36 | 75.21 | 74.58 |
| 82 | 67.34 | 72.10 | 75.08 | 75.24 | 65.21 | 69.36 | 68.51 |
| 83 | 62.32 | 66.41 | 69.19 | 69.53 | 60.46 | 64.11 | 63.07 |
| 84 | 57.82 | 61.46 | 63.90 | 64.26 | 56.23 | 59.35 | 58.26 |
| 85 | 53.79 | 57.00 | 59.04 | 59.56 | 52.38 | 55.12 | 53.80 |
| 86 | 50.20 | 52.98 | 54.78 | 55.37 | 48.93 | 51.34 | 49.91 |
| 87 | 46.79 | 49.32 | 50.84 | 51.52 | 45.72 | 47.87 | 46.39 |
| 88 | 43.82 | 46.06 | 47.32 | 48.04 | 42.82 | 44.76 | 43.21 |
| 89 | 41.09 | 43.07 | 44.10 | 44.90 | 40.15 | 41.86 | 40.37 |
| 90 | 38.56 | 40.43 | 41.26 | 42.12 | 37.83 | 39.31 | 38.03 |
| 91 | 36.45 | 37.82 | 38.76 | 38.82 | 35.91 | 37.36 | 35.68 |
| 92 | 34.40 | 30.27 | 31.57 | 28.39 | 33.11 | 35.25 | 32.25 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|
| 93 | 28.40 | 21.05 | 21.74 | 20.32 | 26.01 | 30.85 | 27.80 |
| 94 | 22.45 | 16.27 | 17.06 | 15.12 | 21.18 | 25.50 | 23.52 |
| 95 | 18.83 | 14.92 | 13.37 | 16.31 | 18.00 | 22.01 | 20.56 |
| 96 | 15.94 | 20.05 | 18.54 | 21.33 | 15.18 | 19.54 | 18.37 |
| 97 | 13.07 | 21.77 | 21.10 | 22.89 | 13.28 | 17.43 | 16.69 |
| 98 | 13.97 | 22.89 | 22.46 | 23.86 | 15.01 | 15.35 | 14.53 |
| 99 | 15.73 | 22.51 | 22.58 | 23.21 | 16.26 | 13.06 | 12.40 |
| 100 | 16.26 | 21.12 | 21.85 | 21.25 | 16.44 | 12.26 | 12.48 |
| 101 | 16.09 | 20.45 | 20.03 | 20.52 | 16.31 | 11.60 | 14.14 |
| 102 | 15.82 | 19.56 | 19.33 | 19.95 | 16.23 | 10.98 | 15.39 |
| 103 | 15.35 | 20.08 | 18.87 | 20.82 | 15.35 | 10.65 | 16.18 |
| 104 | 14.52 | 21.73 | 19.50 | 22.34 | 14.30 | 10.46 | 16.59 |
| 105 | 13.38 | 21.67 | 21.32 | 22.02 | 12.81 | 10.09 | 16.81 |
| 106 | 11.71 | 21.45 | 21.34 | 21.67 | 11.09 | 9.05 | 16.65 |
| 107 | 10.89 | 20.77 | 21.24 | 20.93 | 10.53 | 9.02 | 17.15 |
| 108 | 10.94 | 20.08 | 20.55 | 20.24 | 10.67 | 8.93 | 16.87 |
| 109 | 10.97 | 19.51 | 20.05 | 19.57 | 10.68 | 8.47 | 16.33 |
| 110 | 11.31 | 18.85 | 19.57 | 19.03 | 11.19 | 7.62 | 15.55 |
| 111 | 12.41 | 18.35 | 19.13 | 18.60 | 12.29 | 6.83 | 14.34 |
| 112 | 13.37 | 17.93 | 18.75 | 18.16 | 13.27 | 6.38 | 13.25 |
| 113 | 13.92 | 17.59 | 18.34 | 17.86 | 13.72 | 6.37 | 12.21 |
| 114 | 14.00 | 17.20 | 18.01 | 17.62 | 14.02 | 6.19 | 12.89 |
| 115 | 13.96 | 16.97 | 17.63 | 17.26 | 13.99 | 6.28 | 13.24 |
| 116 | 13.50 | 16.49 | 16.39 | 16.94 | 13.63 | 6.52 | 13.19 |
| 117 | 13.10 | 16.16 | 13.64 | 16.88 | 13.22 | 6.76 | 13.94 |
| 118 | 12.76 | 15.97 | 11.84 | 16.45 | 12.87 | 6.90 | 14.82 |
| 119 | 12.50 | 15.59 | 11.62 | 16.12 | 12.45 | 6.84 | 15.70 |
| 120 | 12.17 | 15.26 | 9.44 | 15.74 | 12.02 | 6.87 | 16.65 |
| 121 | 11.72 | 14.74 | 7.64 | 15.41 | 11.64 | 6.84 | 17.45 |
| 122 | 11.32 | 14.15 | 5.95 | 14.80 | 11.23 | 6.46 | 17.65 |
| 123 | 10.88 | 13.38 | 5.05 | 14.14 | 10.90 | 6.27 | 17.87 |
| 124 | 10.43 | 12.39 | 5.55 | 13.26 | 10.52 | 6.27 | 17.69 |
| 125 | 9.95 | 11.28 | 5.55 | 12.34 | 10.11 | 6.30 | 17.39 |
| 126 | 9.69 | 10.07 | 5.50 | 11.22 | 9.68 | 6.41 | 17.04 |
| 127 | 9.33 | 8.81 | 5.30 | 10.02 | 9.24 | 6.43 | 16.73 |
| 128 | 8.99 | 7.71 | 5.14 | 9.08 | 8.91 | 6.43 | 16.49 |
| 129 | 8.56 | 6.49 | 4.82 | 8.07 | 8.51 | 6.57 | 16.27 |
| 130 | 8.10 | 5.22 | 4.56 | 6.78 | 8.18 | 6.63 | 15.98 |
| 131 | 7.71 | 3.89 | 3.79 | 5.32 | 7.85 | 6.68 | 15.73 |
| 132 | 7.36 | 2.68 | 3.04 | 3.85 | 7.50 | 6.82 | 15.53 |
| 133 | 7.03 | 1.66 | 2.15 | 2.36 | 7.11 | 6.92 | 15.29 |
| 134 | 6.68 | 1.39 | 1.10 | 1.41 | 6.75 | 7.04 | 14.99 |
| 135 | 6.21 | 1.53 | 0.65 | 1.46 | 6.29 | 7.20 | 14.72 |
| 136 | 5.59 | 2.38 | 0.74 | 2.07 | 5.74 | 7.44 | 14.47 |
| 137 | 4.85 | 3.10 | 1.10 | 2.88 | 5.18 | 7.58 | 14.15 |
| 138 | 4.16 | 3.88 | 2.05 | 3.62 | 4.65 | 7.74 | 13.85 |
| 139 | 3.57 | 4.72 | 2.45 | 4.69 | 4.17 | 7.74 | 13.54 |
| 140 | 3.24 | 4.77 | 2.45 | 5.36 | 3.76 | 7.74 | 13.25 |
| 141 | 2.92 | 4.71 | 2.42 | 5.52 | 3.35 | 7.69 | 12.92 |
| 142 | 2.64 | 4.57 | 2.20 | 5.32 | 3.11 | 7.66 | 12.55 |
| 143 | 2.54 | 4.22 | 2.04 | 4.95 | 2.89 | 7.47 | 12.18 |
| 144 | 2.54 | 3.80 | 1.96 | 4.34 | 2.73 | 7.30 | 11.78 |
| 145 | 2.51 | 3.09 | 1.77 | 3.76 | 2.45 | 7.11 | 11.38 |
| 146 | 2.42 | 2.53 | 1.74 | 3.12 | 2.00 | 6.87 | 10.96 |
| 147 | 2.10 | 2.06 | 1.73 | 2.54 | 1.35 | 6.56 | 10.50 |
| 148 | 1.96 | 1.57 | 1.30 | 2.04 | 0.67 | 6.32 | 10.06 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-----|------|------|------|------|------|------|------|
| 149 | 1.69 | 0.82 | 1.22 | 1.60 | 0.30 | 5.99 | 9.63 |
| 150 | 1.71 | 0.79 | 0.84 | 1.16 | 0.14 | 5.66 | 9.22 |
| 151 | 1.20 | 0.76 | 0.71 | 0.76 | 0.11 | 5.25 | 8.75 |
| 152 | 1.09 | 0.79 | 0.38 | 0.70 | 0.14 | 4.70 | 8.29 |
| 153 | 0.78 | 0.77 | 0.35 | 0.49 | 0.42 | 3.69 | 7.74 |
| 154 | 0.33 | 1.02 | 0.35 | 0.38 | 1.12 | 2.54 | 7.12 |
| 155 | 0.19 | 1.37 | 0.35 | 0.30 | 1.45 | 1.63 | 6.29 |
| 156 | 0.27 | 1.64 | 0.38 | 0.30 | 1.53 | 0.57 | 4.97 |
| 157 | 0.33 | 1.72 | 0.38 | 0.30 | 1.53 | 0.46 | 3.61 |
| 158 | 0.44 | 1.72 | 0.38 | 0.30 | 1.42 | 0.49 | 2.38 |
| 159 | 0.78 | 1.72 | 0.35 | 0.30 | 1.39 | 0.84 | 1.20 |
| 160 | 1.52 | 1.72 | 0.35 | 0.30 | 1.36 | 1.61 | 0.85 |
| 161 | 2.00 | 1.72 | 0.35 | 0.30 | 1.20 | 2.21 | 0.71 |
| 162 | 2.57 | 1.74 | 0.38 | 0.30 | 1.17 | 2.51 | 0.82 |
| 163 | 2.65 | 1.63 | 0.33 | 0.30 | 1.09 | 2.48 | 1.77 |
| 164 | 2.64 | 1.44 | 0.33 | 0.30 | 0.93 | 2.28 | 2.44 |
| 165 | 2.48 | 1.36 | 0.33 | 0.30 | 0.87 | 2.01 | 2.91 |
| 166 | 2.18 | 1.31 | 0.33 | 0.30 | 0.74 | 1.74 | 2.94 |
| 167 | 1.87 | 1.20 | 0.33 | 0.30 | 0.71 | 1.72 | 2.81 |
| 168 | 1.63 | 1.06 | 0.33 | 0.30 | 0.73 | 1.58 | 2.44 |
| 169 | 1.22 | 0.79 | 0.35 | 0.30 | 0.49 | 1.22 | 2.10 |
| 170 | 0.95 | 0.81 | 0.33 | 0.30 | 0.41 | 1.03 | 1.72 |
| 171 | 0.73 | 0.52 | 0.25 | 0.30 | 0.35 | 0.87 | 1.48 |
| 172 | 0.57 | 0.46 | 0.24 | 0.30 | 0.33 | 0.71 | 1.18 |
| 173 | 0.41 | 0.38 | 0.22 | 0.33 | 0.33 | 0.52 | 0.82 |
| 174 | 0.30 | 0.33 | 0.22 | 0.30 | 0.35 | 0.41 | 0.39 |
| 175 | 0.25 | 0.30 | 0.22 | 0.24 | 0.30 | 0.30 | 0.41 |
| 176 | 0.19 | 0.22 | 0.22 | 0.22 | 0.24 | 0.32 | 0.38 |
| 177 | 0.19 | 0.16 | 0.22 | 0.22 | 0.14 | 0.22 | 0.33 |
| 178 | 0.19 | 0.16 | 0.22 | 0.19 | 0.14 | 0.22 | 0.16 |
| 179 | 0.19 | 0.19 | 0.22 | 0.19 | 0.14 | 0.22 | 0.16 |
| 180 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 127.04 | N.A. | 8.90 |
| 0-30 | 252.69 | N.A. | 17.80 |
| 0-40 | 459.36 | N.A. | 32.30 |
| 0-60 | 930.70 | N.A. | 65.50 |
| 0-80 | 1286.48 | N.A. | 90.60 |
| 0-90 | 1347.13 | N.A. | 94.90 |
| 10-90 | 1309.67 | N.A. | 92.20 |
| 20-40 | 332.32 | N.A. | 23.40 |
| 20-50 | 546.36 | N.A. | 38.50 |
| 40-70 | 695.73 | N.A. | 49.00 |
| 60-80 | 355.78 | N.A. | 25.10 |
| 70-80 | 131.39 | N.A. | 9.30 |
| 80-90 | 60.65 | N.A. | 4.30 |
| 90-110 | 41.49 | N.A. | 2.90 |
| 90-120 | 54.51 | N.A. | 3.80 |
| 90-130 | 63.55 | N.A. | 4.50 |
| 90-150 | 71.62 | N.A. | 5.00 |
| 90-180 | 72.98 | N.A. | 5.10 |
| 110-180 | 31.49 | N.A. | 2.20 |
| 0-180 | 1420.11 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 37.46 |
| 10-20 | 89.58 |
| 20-30 | 125.65 |
| 30-40 | 206.67 |
| 40-50 | 214.04 |
| 50-60 | 257.30 |
| 60-70 | 224.40 |
| 70-80 | 131.39 |
| 80-90 | 60.65 |
| 90-100 | 25.08 |
| 100-110 | 16.41 |
| 110-120 | 13.02 |
| 120-130 | 9.04 |
| 130-140 | 4.92 |
| 140-150 | 3.15 |
| 150-160 | 1.01 |
| 160-170 | 0.31 |
| 170-180 | 0.04 |

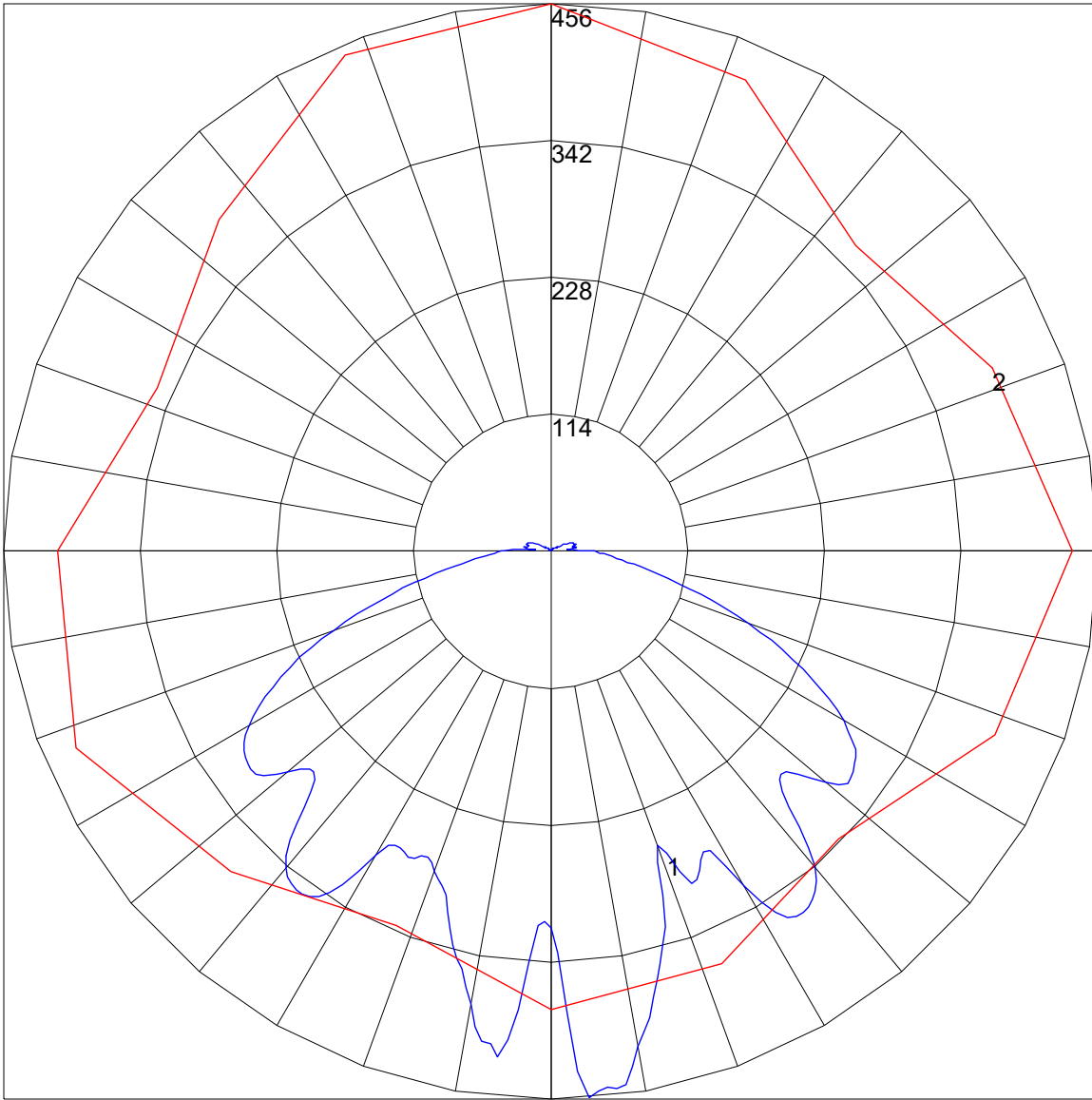
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VPJE HI UV FP 740.IES

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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 103 | 103 | 103 | 97 | 97 | 97 | 95 |
| 1 | 106 | 100 | 95 | 90 | 102 | 97 | 93 | 88 | 92 | 88 | 85 | 87 | 84 | 81 | 82 | 80 | 78 | 75 |
| 2 | 95 | 85 | 78 | 71 | 91 | 83 | 76 | 70 | 78 | 72 | 67 | 74 | 69 | 65 | 70 | 66 | 63 | 60 |
| 3 | 85 | 74 | 64 | 57 | 82 | 72 | 63 | 56 | 68 | 61 | 55 | 64 | 58 | 53 | 61 | 56 | 51 | 49 |
| 4 | 77 | 64 | 55 | 47 | 75 | 62 | 53 | 47 | 59 | 51 | 45 | 56 | 50 | 44 | 53 | 48 | 43 | 40 |
| 5 | 71 | 57 | 47 | 40 | 68 | 55 | 46 | 39 | 52 | 44 | 38 | 50 | 43 | 37 | 47 | 41 | 36 | 34 |
| 6 | 65 | 51 | 41 | 34 | 63 | 49 | 40 | 34 | 47 | 39 | 33 | 45 | 38 | 32 | 43 | 36 | 31 | 29 |
| 7 | 60 | 45 | 36 | 29 | 58 | 44 | 35 | 29 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 25 |
| 8 | 56 | 41 | 32 | 26 | 54 | 40 | 32 | 26 | 38 | 31 | 25 | 37 | 30 | 25 | 35 | 29 | 24 | 22 |
| 9 | 52 | 38 | 29 | 23 | 50 | 37 | 28 | 23 | 35 | 28 | 22 | 34 | 27 | 22 | 32 | 26 | 22 | 20 |
| 10 | 48 | 35 | 26 | 21 | 47 | 34 | 26 | 21 | 32 | 25 | 20 | 31 | 24 | 20 | 30 | 24 | 19 | 18 |

POLAR GRAPH



Maximum Candela = 456.48 Located At Horizontal Angle = 90, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)