

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P670925

Luminaire Tested: **CCP-SA-1A-727-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670925  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-727-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T4FT distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

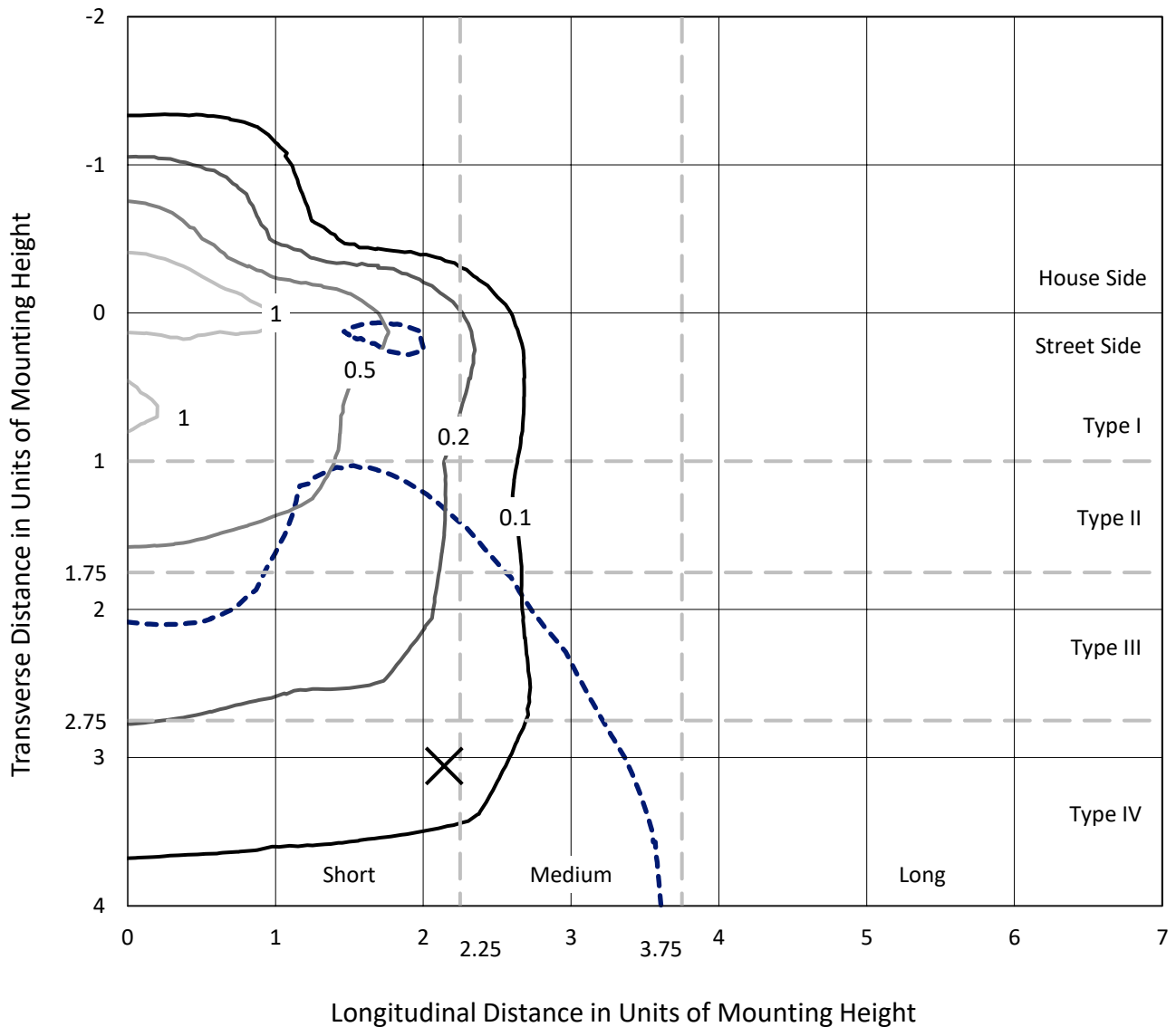
Lumens per Lamp: N/A  
Luminaire Lumens: 2286.5 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

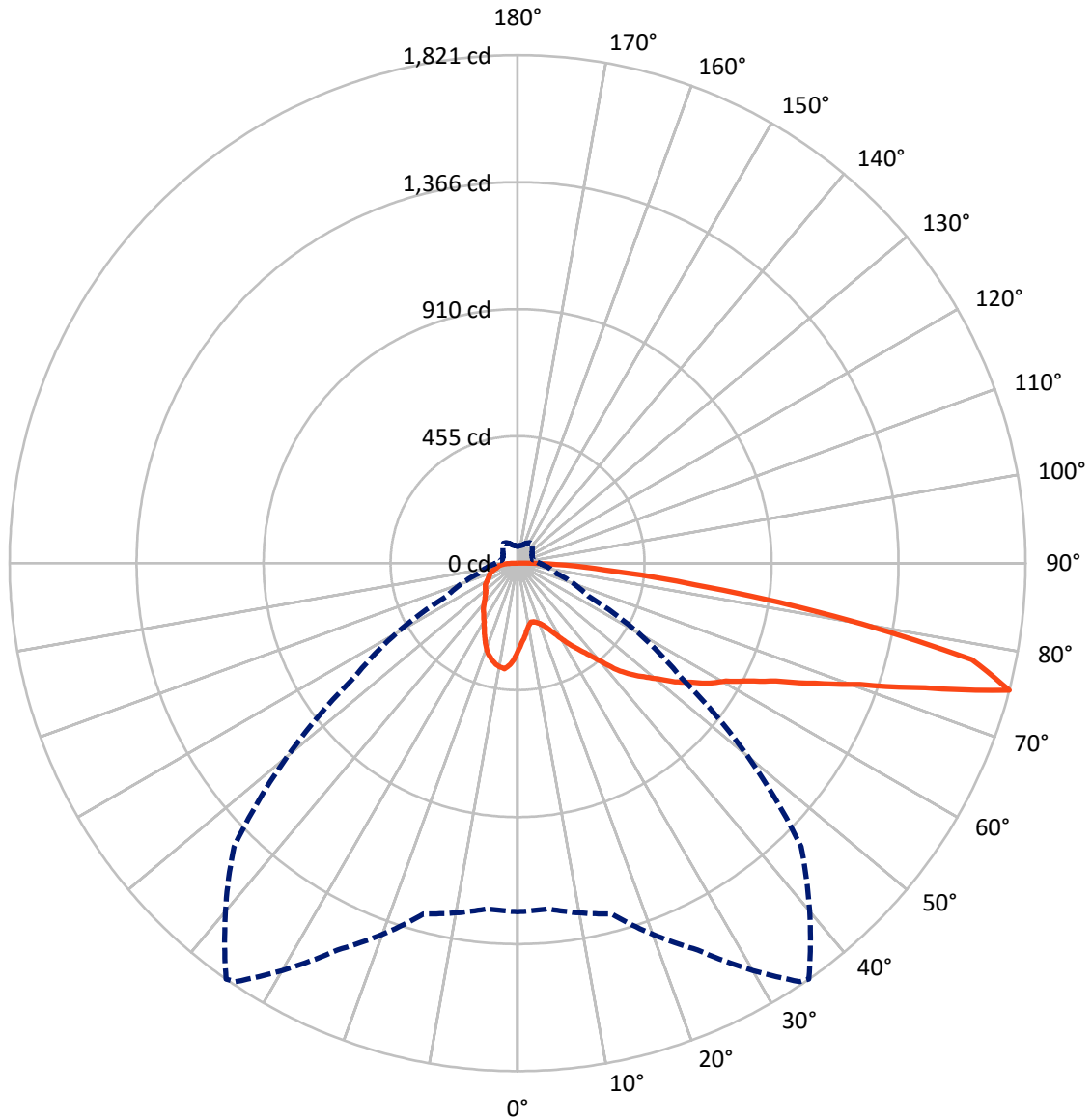
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P670925  
CATALOG NUMBER: CCP-SA-1A-727-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 525.5    | 0.0    | 525.5  |
|                    | % Fixture | 23.0     | 0.0    | 23.0   |
| <b>Street Side</b> | Lumens    | 1761.0   | 0.0    | 1761.0 |
|                    | % Fixture | 77.0     | 0.0    | 77.0   |
| <b>Total</b>       | Lumens    | 2286.5   | 0.0    | 2286.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.8   | 1.3       |
| 10°-20°   | 86.6   | 3.8       |
| 20°-30°   | 143.8  | 6.3       |
| 30°-40°   | 213.1  | 9.3       |
| 40°-50°   | 307.3  | 13.4      |
| 50°-60°   | 422.5  | 18.5      |
| 60°-70°   | 521.9  | 22.8      |
| 70°-80°   | 477.5  | 20.9      |
| 80°-90°   | 84.0   | 3.7       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 2286.5 | 100.0     |
| 0°-180°   | 2286.5 | 100.0     |



REPORT NUMBER: P670925

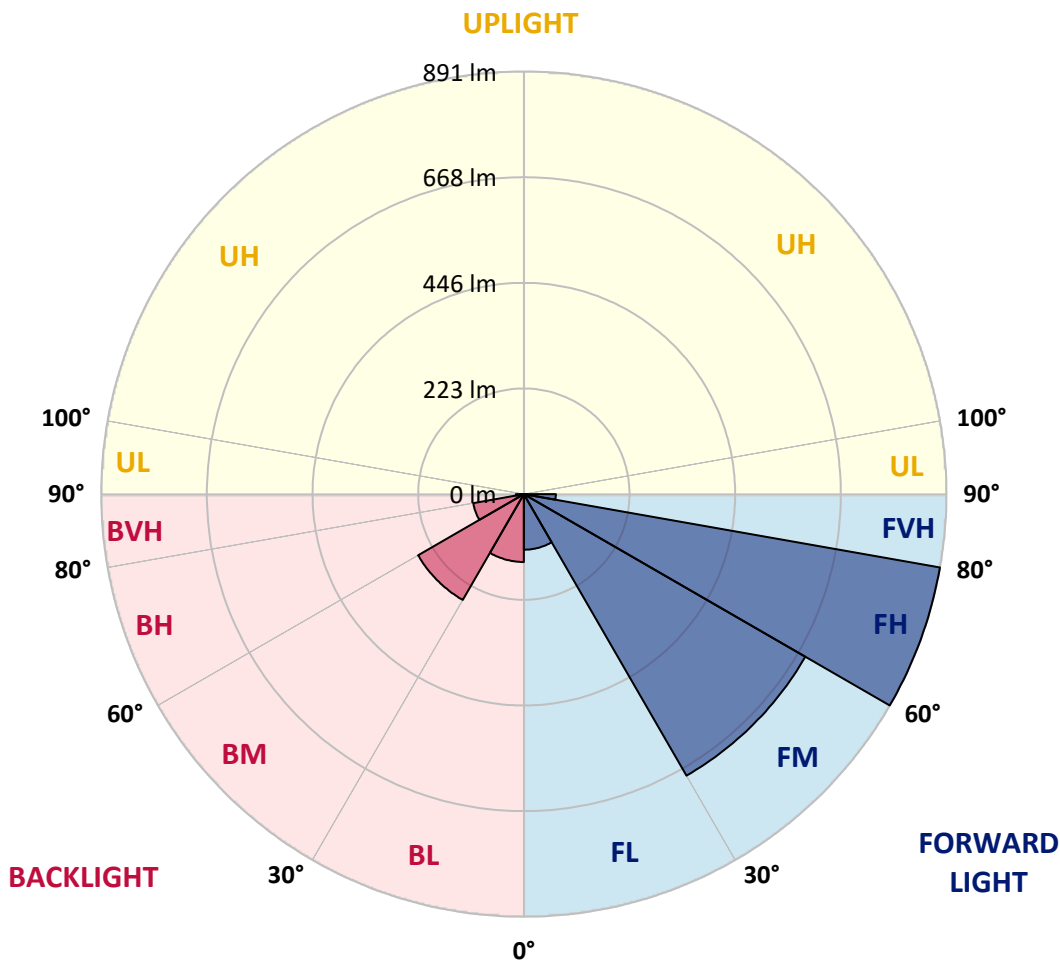
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 117.2  | 5.1       |                         |      |         |
| FM (30°-60°)   | 685.4  | 30.0      |                         |      |         |
| FH (60°-80°)   | 891.0  | 39.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 67.5   | 3.0       |                         |      | G1/100  |
| BL (0°-30°)    | 143.0  | 6.3       | B1/500                  |      |         |
| BM (30°-60°)   | 257.5  | 11.3      | B1/1000                 |      |         |
| BH (60°-80°)   | 108.4  | 4.7       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 16.6   | 0.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type IV Short





REPORT NUMBER: P670925  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°   | 65°   | 75°   | 85°   |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 313.3  | 313.3  | 313.3  | 313.3  | 313.3  | 313.3  | 313.3  | 313.3 | 313.3 | 313.3 | 313.3 |
| 2.5°  | 283.8  | 281.3  | 283.8  | 285.5  | 285.5  | 285.5  | 288.0  | 295.6 | 300.6 | 304.0 | 309.9 |
| 5°    | 254.3  | 255.2  | 256.8  | 261.1  | 263.6  | 265.3  | 269.5  | 278.7 | 286.3 | 297.3 | 309.9 |
| 7.5°  | 228.2  | 229.9  | 232.4  | 236.6  | 242.5  | 241.7  | 251.0  | 263.6 | 277.9 | 292.2 | 310.7 |
| 10°   | 214.7  | 218.1  | 219.0  | 219.8  | 225.7  | 225.7  | 238.3  | 252.6 | 270.3 | 288.8 | 310.7 |
| 12.5° | 217.3  | 217.3  | 214.7  | 213.9  | 217.3  | 216.4  | 227.4  | 244.2 | 263.6 | 289.7 | 314.1 |
| 15°   | 224.8  | 224.8  | 219.8  | 214.7  | 219.8  | 218.1  | 227.4  | 240.8 | 263.6 | 290.5 | 320.8 |
| 17.5° | 235.0  | 235.8  | 229.9  | 221.5  | 223.2  | 224.0  | 230.7  | 243.4 | 263.6 | 292.2 | 330.1 |
| 20°   | 255.2  | 251.0  | 241.7  | 228.2  | 234.1  | 231.6  | 241.7  | 252.6 | 268.6 | 299.0 | 343.6 |
| 22.5° | 272.8  | 272.8  | 255.2  | 243.4  | 244.2  | 244.2  | 253.5  | 262.7 | 276.2 | 308.2 | 353.7 |
| 25°   | 301.5  | 299.8  | 277.9  | 260.2  | 261.9  | 262.7  | 267.8  | 278.7 | 288.8 | 313.3 | 366.3 |
| 27.5° | 337.7  | 333.5  | 311.6  | 291.4  | 284.6  | 287.2  | 289.7  | 298.1 | 300.6 | 321.7 | 381.5 |
| 30°   | 376.4  | 370.5  | 352.0  | 320.0  | 316.6  | 317.5  | 313.3  | 318.3 | 315.0 | 335.2 | 396.6 |
| 32.5° | 400.9  | 400.9  | 383.2  | 359.6  | 350.3  | 350.3  | 336.0  | 339.4 | 339.4 | 347.8 | 423.6 |
| 35°   | 421.9  | 420.2  | 408.4  | 390.7  | 384.9  | 381.5  | 367.2  | 372.2 | 363.8 | 372.2 | 461.5 |
| 37.5° | 453.9  | 448.9  | 443.8  | 432.0  | 420.2  | 417.7  | 410.1  | 413.5 | 401.7 | 397.5 | 504.4 |
| 40°   | 491.0  | 488.4  | 483.4  | 478.3  | 466.5  | 465.7  | 457.3  | 460.6 | 448.0 | 432.0 | 547.4 |
| 42.5° | 545.7  | 538.1  | 522.1  | 517.9  | 520.4  | 523.8  | 520.4  | 514.5 | 491.8 | 471.6 | 593.7 |
| 45°   | 600.4  | 588.6  | 558.3  | 551.6  | 571.0  | 568.4  | 582.8  | 580.2 | 543.2 | 511.2 | 642.5 |
| 47.5° | 635.8  | 625.7  | 601.3  | 597.1  | 605.5  | 608.9  | 651.8  | 644.2 | 585.3 | 547.4 | 689.7 |
| 50°   | 661.1  | 661.9  | 629.9  | 640.9  | 651.8  | 651.8  | 705.7  | 704.9 | 636.6 | 592.0 | 751.2 |
| 52.5° | 698.1  | 686.3  | 672.9  | 683.0  | 698.1  | 706.5  | 773.1  | 754.5 | 668.6 | 629.9 | 820.2 |
| 55°   | 717.5  | 712.4  | 700.6  | 718.3  | 750.3  | 754.5  | 825.3  | 811.0 | 704.9 | 674.5 | 891.0 |
| 57.5° | 725.1  | 729.3  | 748.6  | 756.2  | 800.9  | 811.8  | 872.4  | 852.2 | 738.5 | 730.1 | 945.7 |
| 60°   | 758.8  | 752.9  | 779.0  | 809.3  | 852.2  | 858.1  | 931.4  | 887.6 | 771.4 | 766.3 | 963.4 |
| 62.5° | 827.0  | 811.8  | 826.1  | 862.3  | 922.1  | 929.7  | 993.7  | 934.8 | 785.7 | 790.8 | 962.5 |
| 65°   | 926.3  | 915.4  | 894.3  | 923.0  | 1007.2 | 1018.1 | 1067.0 | 975.2 | 781.5 | 782.3 | 894.3 |
| 67.5° | 1043.4 | 1025.7 | 1003.8 | 1021.5 | 1124.2 | 1149.5 | 1156.2 | 992.9 | 752.0 | 735.2 | 727.6 |
| 70°   | 1146.1 | 1134.3 | 1120.0 | 1150.3 | 1293.5 | 1302.8 | 1267.4 | 981.9 | 670.3 | 590.3 | 485.1 |
| 72.5° | 1242.1 | 1236.2 | 1244.7 | 1358.3 | 1522.6 | 1528.5 | 1371.8 | 912.9 | 529.7 | 357.9 | 225.7 |
| 75°   | 1249.7 | 1243.8 | 1301.9 | 1530.1 | 1809.7 | 1820.7 | 1436.7 | 715.8 | 279.6 | 145.7 | 95.2  |
| 77.5° | 846.3  | 864.0  | 972.7  | 1339.8 | 1662.4 | 1664.9 | 1174.8 | 332.6 | 115.4 | 85.9  | 66.5  |
| 80°   | 208.0  | 230.7  | 366.3  | 693.1  | 1120.9 | 1148.7 | 643.4  | 112.0 | 75.8  | 65.7  | 49.7  |
| 82.5° | 75.8   | 82.5   | 149.1  | 313.3  | 629.9  | 640.9  | 224.8  | 60.6  | 54.7  | 50.5  | 36.2  |
| 85°   | 36.2   | 37.1   | 70.7   | 154.1  | 318.3  | 315.0  | 80.8   | 36.2  | 39.6  | 34.5  | 21.9  |
| 87.5° | 15.2   | 15.2   | 31.2   | 71.6   | 140.6  | 136.4  | 26.1   | 16.8  | 22.7  | 20.2  | 10.9  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |



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 CATALOG NUMBER: CCP-SA-1A-727-U-T4FT

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 |
| 2.5°  | 314.1 | 315.8 | 322.5 | 327.6 | 332.6 | 336.9 | 343.6 | 343.6 | 347.8 | 347.8 | 347.8 |
| 5°    | 313.3 | 322.5 | 333.5 | 345.3 | 352.9 | 360.4 | 367.2 | 368.0 | 370.5 | 373.9 | 374.7 |
| 7.5°  | 316.6 | 325.9 | 343.6 | 360.4 | 369.7 | 373.1 | 381.5 | 379.0 | 379.0 | 379.0 | 381.5 |
| 10°   | 323.4 | 333.5 | 357.9 | 373.1 | 379.8 | 380.6 | 378.1 | 376.4 | 371.4 | 369.7 | 367.2 |
| 12.5° | 328.4 | 346.1 | 370.5 | 382.3 | 379.8 | 377.3 | 371.4 | 363.0 | 357.1 | 355.4 | 355.4 |
| 15°   | 341.1 | 358.7 | 381.5 | 385.7 | 381.5 | 368.0 | 360.4 | 351.2 | 346.1 | 338.5 | 341.9 |
| 17.5° | 352.0 | 372.2 | 392.4 | 387.4 | 379.0 | 357.9 | 347.0 | 333.5 | 326.7 | 318.3 | 318.3 |
| 20°   | 366.3 | 384.9 | 402.5 | 389.1 | 370.5 | 347.8 | 330.1 | 313.3 | 304.0 | 295.6 | 297.3 |
| 22.5° | 382.3 | 399.2 | 408.4 | 382.3 | 357.9 | 331.8 | 307.4 | 291.4 | 279.6 | 274.5 | 276.2 |
| 25°   | 395.0 | 413.5 | 411.8 | 371.4 | 342.7 | 311.6 | 284.6 | 269.5 | 267.0 | 261.9 | 261.9 |
| 27.5° | 411.0 | 430.3 | 409.3 | 357.9 | 317.5 | 279.6 | 262.7 | 256.8 | 256.8 | 254.3 | 256.0 |
| 30°   | 432.0 | 445.5 | 403.4 | 338.5 | 285.5 | 251.0 | 242.5 | 245.9 | 251.8 | 249.3 | 250.1 |
| 32.5° | 466.5 | 464.9 | 398.3 | 316.6 | 251.8 | 223.2 | 229.1 | 235.8 | 240.8 | 243.4 | 245.1 |
| 35°   | 500.2 | 489.3 | 392.4 | 287.2 | 220.6 | 209.7 | 214.7 | 222.3 | 231.6 | 234.1 | 235.0 |
| 37.5° | 533.9 | 514.5 | 382.3 | 251.0 | 201.3 | 197.9 | 203.0 | 207.2 | 214.7 | 216.4 | 218.1 |
| 40°   | 569.3 | 531.4 | 364.6 | 215.6 | 185.3 | 185.3 | 188.6 | 189.5 | 193.7 | 196.2 | 197.9 |
| 42.5° | 600.4 | 547.4 | 332.6 | 182.7 | 168.4 | 174.3 | 175.2 | 173.5 | 170.1 | 171.8 | 172.6 |
| 45°   | 638.3 | 565.1 | 295.6 | 159.2 | 155.8 | 163.4 | 165.1 | 158.3 | 152.4 | 149.1 | 147.4 |
| 47.5° | 675.4 | 583.6 | 263.6 | 139.8 | 144.0 | 155.8 | 155.8 | 148.2 | 138.1 | 129.7 | 126.3 |
| 50°   | 709.1 | 602.1 | 237.5 | 128.0 | 132.2 | 149.9 | 151.6 | 137.3 | 126.3 | 116.2 | 114.5 |
| 52.5° | 765.5 | 633.3 | 210.5 | 118.7 | 125.5 | 145.7 | 144.8 | 132.2 | 117.9 | 106.9 | 106.1 |
| 55°   | 815.2 | 664.4 | 175.2 | 109.5 | 118.7 | 139.8 | 142.3 | 127.2 | 107.8 | 97.7  | 96.0  |
| 57.5° | 851.4 | 672.0 | 139.8 | 100.2 | 112.0 | 133.1 | 136.4 | 117.1 | 101.1 | 92.6  | 91.8  |
| 60°   | 858.1 | 642.5 | 113.7 | 92.6  | 102.7 | 123.8 | 126.3 | 111.2 | 96.0  | 89.3  | 87.6  |
| 62.5° | 827.0 | 586.1 | 96.8  | 85.9  | 95.2  | 114.5 | 119.6 | 104.4 | 90.9  | 85.1  | 84.2  |
| 65°   | 756.2 | 503.6 | 85.1  | 80.0  | 90.1  | 107.8 | 113.7 | 99.4  | 86.7  | 81.7  | 80.8  |
| 67.5° | 598.8 | 386.5 | 75.8  | 75.8  | 83.4  | 101.1 | 109.5 | 96.0  | 82.5  | 79.2  | 78.3  |
| 70°   | 391.6 | 232.4 | 69.1  | 69.9  | 78.3  | 95.2  | 104.4 | 91.8  | 77.5  | 76.6  | 74.9  |
| 72.5° | 168.4 | 106.9 | 61.5  | 64.0  | 70.7  | 85.1  | 96.8  | 85.9  | 71.6  | 69.1  | 66.5  |
| 75°   | 77.5  | 64.8  | 55.6  | 57.3  | 63.2  | 74.9  | 87.6  | 79.2  | 66.5  | 62.3  | 59.8  |
| 77.5° | 54.7  | 47.2  | 46.3  | 49.7  | 53.9  | 64.8  | 77.5  | 74.1  | 61.5  | 58.1  | 56.4  |
| 80°   | 40.4  | 36.2  | 38.7  | 42.1  | 44.6  | 59.8  | 73.3  | 68.2  | 56.4  | 51.4  | 48.8  |
| 82.5° | 28.6  | 26.9  | 30.3  | 33.7  | 36.2  | 52.2  | 67.4  | 59.8  | 47.2  | 42.9  | 38.7  |
| 85°   | 16.8  | 17.7  | 21.1  | 22.7  | 25.3  | 38.7  | 56.4  | 48.0  | 36.2  | 27.8  | 26.9  |
| 87.5° | 7.6   | 7.6   | 10.1  | 10.9  | 12.6  | 22.7  | 37.9  | 30.3  | 22.7  | 17.7  | 16.8  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)