

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: P670665

Luminaire Tested: **CCP-SA-2A-735-U-T2**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P670665  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-735-U-T2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2  
distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

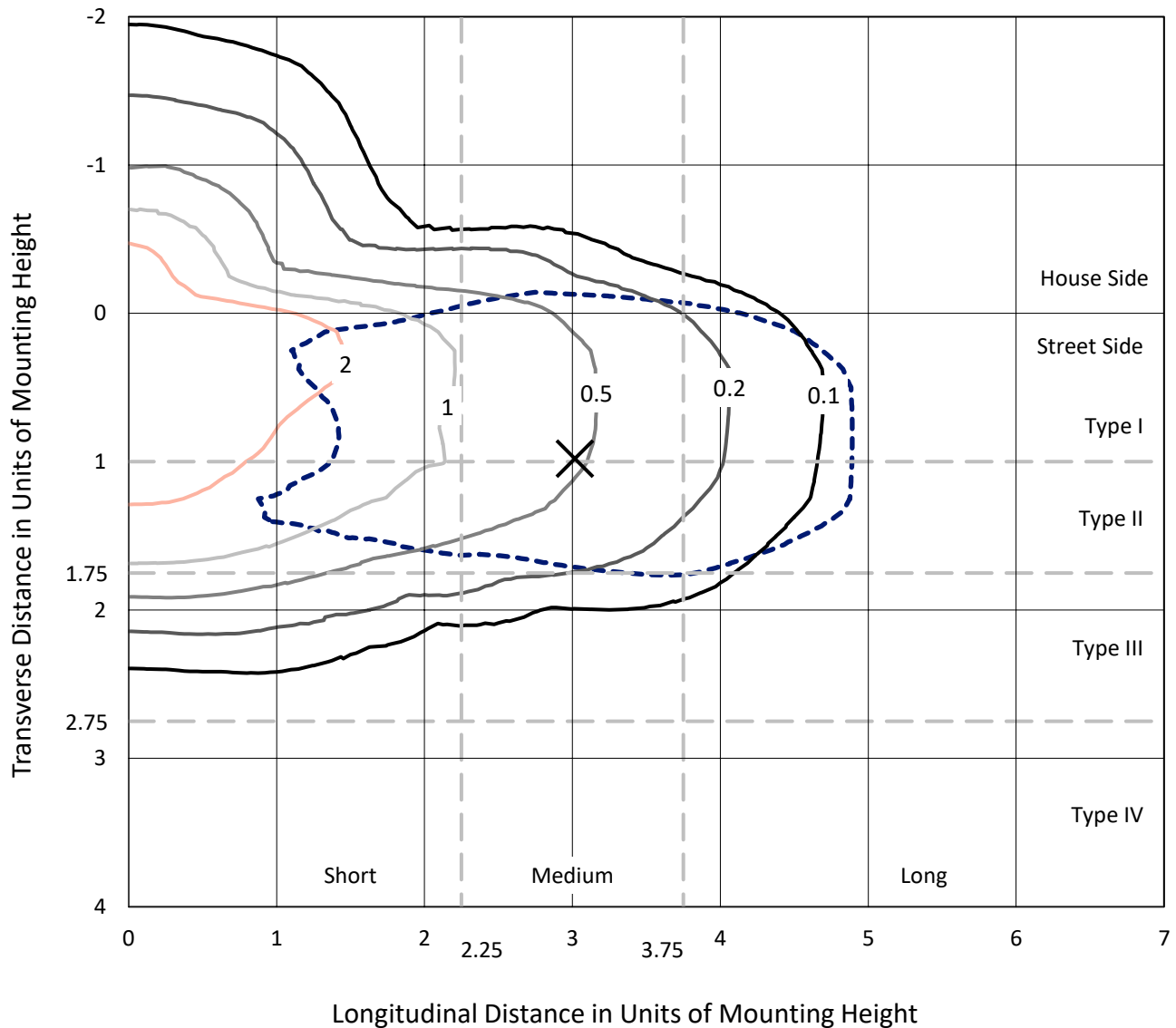
Lumens per Lamp: N/A  
Luminaire Lumens: 5383.2 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
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

REPORT NUMBER: P670665  
CATALOG NUMBER: CCP-SA-2A-735-U-T2

## Iso-Footcandle Lines of Horizontal Illumination

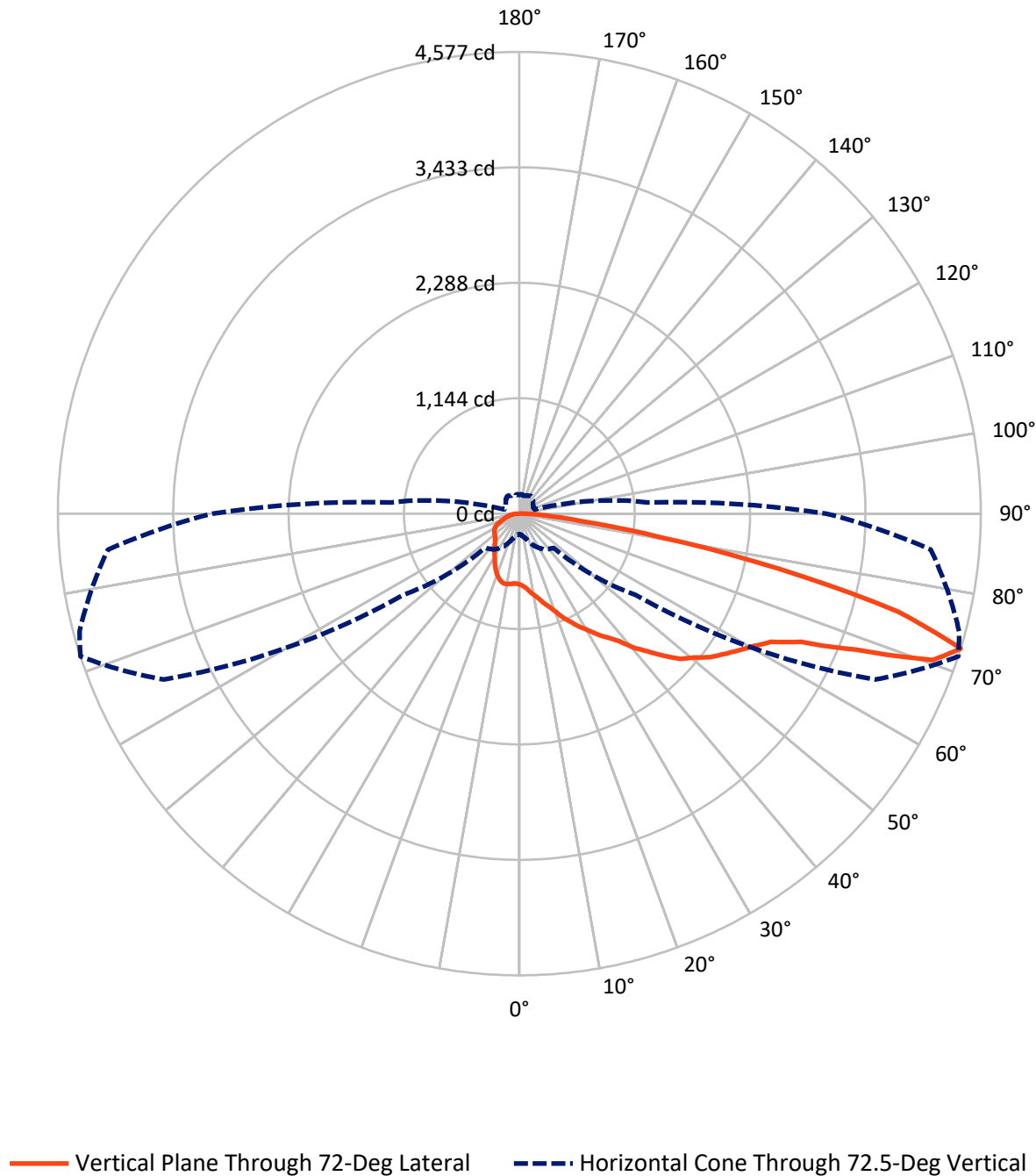
× Max cd  
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc  
Type II - Medium - N/A

REPORT NUMBER: P670665  
CATALOG NUMBER: CCP-SA-2A-735-U-T2

## Luminous Intensity Polar Plot



REPORT NUMBER: P670665

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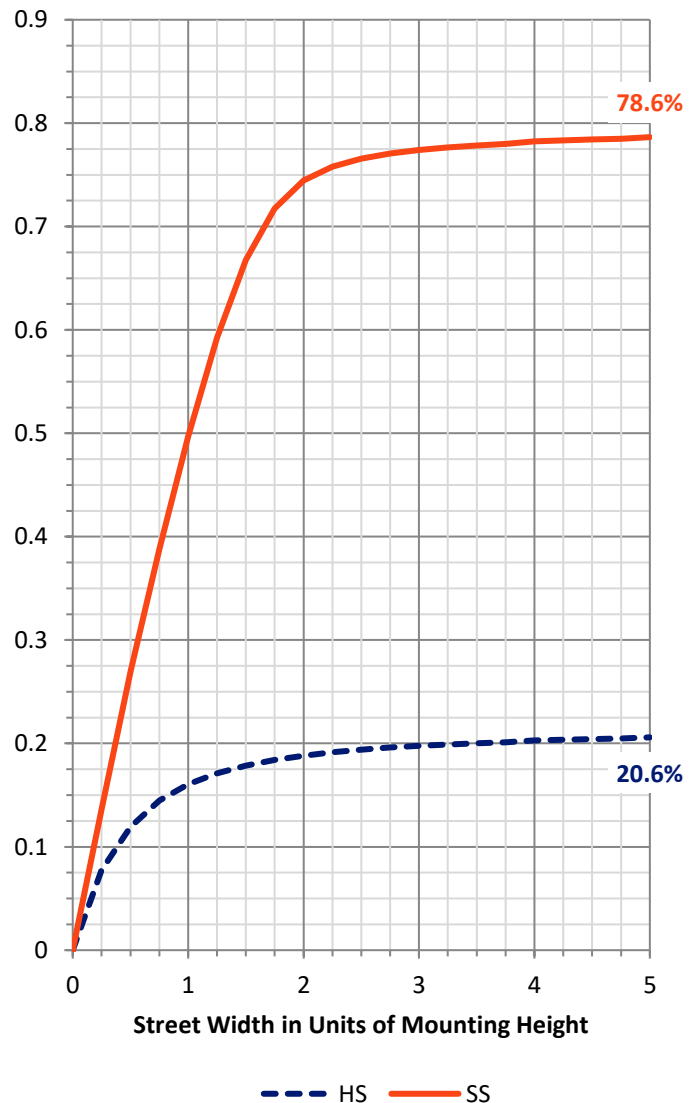
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1132.9   | 0.0    | 1132.9 |
|                    | % Fixture | 21.0     | 0.0    | 21.0   |
| <b>Street Side</b> | Lumens    | 4250.3   | 0.0    | 4250.3 |
|                    | % Fixture | 79.0     | 0.0    | 79.0   |
| <b>Total</b>       | Lumens    | 5383.2   | 0.0    | 5383.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.5   | 1.3       |
| 10°-20°   | 216.0  | 4.0       |
| 20°-30°   | 373.8  | 6.9       |
| 30°-40°   | 552.2  | 10.3      |
| 40°-50°   | 821.1  | 15.3      |
| 50°-60°   | 1125.7 | 20.9      |
| 60°-70°   | 1221.0 | 22.7      |
| 70°-80°   | 860.8  | 16.0      |
| 80°-90°   | 143.0  | 2.7       |
| 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°    | 5383.2 | 100.0     |
| 0°-180°   | 5383.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P670665

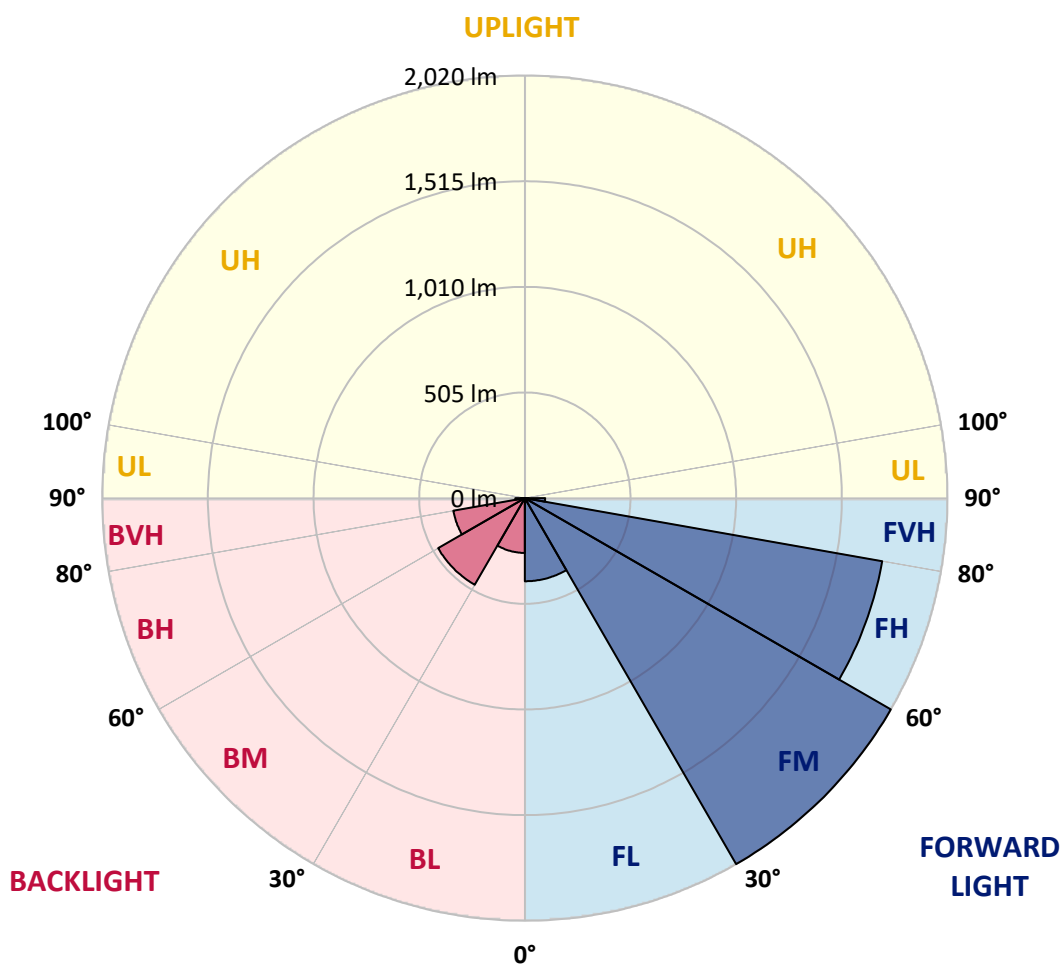
CATALOG NUMBER: CCP-SA-2A-735-U-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 397.5  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 2020.4 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 1734.8 | 32.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 97.5   | 1.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 261.9  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 478.5  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 347.0  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 45.5   | 0.8       |                         |      | 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 II Medium



REPORT NUMBER: P670665

CATALOG NUMBER: CCP-SA-2A-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 703.2  | 703.2  | 703.2  | 703.2  | 703.2  | 703.2  | 703.2  | 703.2  | 703.2  | 703.2  | 703.2  |
| 2.5°  | 758.8  | 758.8  | 752.9  | 750.9  | 750.9  | 735.0  | 737.0  | 727.0  | 719.1  | 719.1  | 711.1  |
| 5°    | 798.5  | 794.6  | 794.6  | 794.6  | 784.6  | 778.7  | 776.7  | 758.8  | 744.9  | 746.9  | 723.1  |
| 7.5°  | 808.5  | 810.5  | 812.4  | 822.4  | 816.4  | 820.4  | 816.4  | 796.6  | 786.6  | 776.7  | 754.8  |
| 10°   | 814.4  | 818.4  | 818.4  | 832.3  | 832.3  | 842.2  | 848.2  | 840.3  | 822.4  | 812.4  | 776.7  |
| 12.5° | 828.3  | 822.4  | 830.3  | 840.3  | 850.2  | 868.1  | 885.9  | 878.0  | 866.1  | 854.2  | 814.4  |
| 15°   | 828.3  | 830.3  | 836.3  | 852.2  | 868.1  | 885.9  | 917.7  | 929.6  | 923.7  | 901.8  | 860.1  |
| 17.5° | 804.5  | 798.5  | 826.4  | 856.2  | 885.9  | 907.8  | 949.5  | 977.3  | 973.4  | 965.4  | 901.8  |
| 20°   | 806.5  | 812.4  | 822.4  | 848.2  | 895.9  | 935.6  | 987.3  | 1032.9 | 1042.9 | 1038.9 | 957.5  |
| 22.5° | 842.2  | 844.2  | 854.2  | 866.1  | 903.8  | 955.5  | 1032.9 | 1106.4 | 1124.3 | 1114.4 | 1019.0 |
| 25°   | 878.0  | 893.9  | 893.9  | 901.8  | 915.7  | 969.4  | 1062.7 | 1166.0 | 1191.9 | 1193.8 | 1082.6 |
| 27.5° | 935.6  | 939.6  | 951.5  | 955.5  | 967.4  | 999.2  | 1096.5 | 1209.7 | 1269.3 | 1261.4 | 1140.2 |
| 30°   | 1003.1 | 1005.1 | 1013.1 | 1009.1 | 1011.1 | 1050.8 | 1128.3 | 1259.4 | 1340.8 | 1342.8 | 1201.8 |
| 32.5° | 1082.6 | 1098.5 | 1102.5 | 1076.6 | 1080.6 | 1090.6 | 1178.0 | 1319.0 | 1430.2 | 1416.3 | 1255.4 |
| 35°   | 1199.8 | 1205.8 | 1193.8 | 1181.9 | 1152.1 | 1146.2 | 1229.6 | 1378.6 | 1507.7 | 1523.6 | 1334.9 |
| 37.5° | 1344.8 | 1360.7 | 1344.8 | 1281.2 | 1249.5 | 1225.6 | 1293.2 | 1444.1 | 1601.1 | 1654.7 | 1414.3 |
| 40°   | 1479.9 | 1477.9 | 1462.0 | 1404.4 | 1348.8 | 1330.9 | 1384.5 | 1535.5 | 1746.1 | 1797.7 | 1529.6 |
| 42.5° | 1589.1 | 1583.2 | 1573.3 | 1529.6 | 1477.9 | 1448.1 | 1489.8 | 1630.9 | 1867.2 | 1966.6 | 1662.6 |
| 45°   | 1684.5 | 1676.5 | 1678.5 | 1628.9 | 1579.2 | 1595.1 | 1595.1 | 1740.1 | 2010.3 | 2133.4 | 1815.6 |
| 47.5° | 1773.9 | 1777.9 | 1771.9 | 1734.2 | 1696.4 | 1738.1 | 1716.3 | 1865.3 | 2151.3 | 2288.4 | 1944.7 |
| 50°   | 1877.2 | 1885.1 | 1865.3 | 1841.4 | 1807.7 | 1849.4 | 1821.6 | 1982.5 | 2242.7 | 2429.4 | 2099.7 |
| 52.5° | 1974.5 | 1982.5 | 2000.3 | 1970.5 | 1936.8 | 1970.5 | 1907.0 | 2091.7 | 2363.9 | 2566.5 | 2218.8 |
| 55°   | 1998.3 | 1994.4 | 2093.7 | 2125.5 | 2143.4 | 2042.1 | 1982.5 | 2185.1 | 2459.2 | 2653.9 | 2353.9 |
| 57.5° | 1889.1 | 1899.0 | 2034.1 | 2125.5 | 2316.2 | 2228.8 | 2067.9 | 2294.3 | 2558.5 | 2769.1 | 2479.1 |
| 60°   | 1617.0 | 1622.9 | 1791.8 | 2008.3 | 2286.4 | 2403.6 | 2298.3 | 2435.4 | 2667.8 | 2866.4 | 2620.1 |
| 62.5° | 1080.6 | 1126.3 | 1336.9 | 1676.5 | 2075.8 | 2451.3 | 2665.8 | 2673.7 | 2800.9 | 2989.6 | 2812.8 |
| 65°   | 570.1  | 592.0  | 756.8  | 1031.0 | 1573.3 | 2286.4 | 3011.4 | 3146.5 | 3067.0 | 3216.0 | 3090.9 |
| 67.5° | 373.4  | 381.4  | 470.8  | 625.7  | 907.8  | 1668.6 | 3051.2 | 3966.9 | 3601.4 | 3647.1 | 3535.8 |
| 70°   | 278.1  | 282.1  | 347.6  | 462.8  | 562.2  | 891.9  | 2500.9 | 4350.3 | 4348.3 | 4227.1 | 4064.2 |
| 72.5° | 204.6  | 210.6  | 256.2  | 353.6  | 433.0  | 480.7  | 1406.4 | 3891.4 | 4576.7 | 4515.2 | 4096.0 |
| 75°   | 160.9  | 164.9  | 188.7  | 274.1  | 349.6  | 315.8  | 713.1  | 2882.3 | 3881.5 | 4177.5 | 3748.4 |
| 77.5° | 131.1  | 135.1  | 149.0  | 198.6  | 280.1  | 244.3  | 341.7  | 1859.3 | 2632.0 | 3007.5 | 2868.4 |
| 80°   | 109.3  | 109.3  | 119.2  | 141.0  | 216.5  | 184.7  | 202.6  | 1044.9 | 1418.3 | 1565.3 | 1301.1 |
| 82.5° | 93.4   | 91.4   | 99.3   | 103.3  | 160.9  | 133.1  | 131.1  | 472.8  | 623.7  | 661.5  | 488.7  |
| 85°   | 59.6   | 61.6   | 93.4   | 89.4   | 105.3  | 91.4   | 73.5   | 224.5  | 294.0  | 300.0  | 182.8  |
| 87.5° | 23.8   | 23.8   | 39.7   | 49.7   | 59.6   | 55.6   | 35.8   | 101.3  | 129.1  | 129.1  | 51.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P670665

CATALOG NUMBER: CCP-SA-2A-735-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 703.2  | 703.2  | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 |
| 2.5°  | 709.2  | 701.2  | 695.3 | 691.3 | 681.3 | 671.4 | 673.4 | 671.4 | 663.5 | 659.5 | 659.5 |
| 5°    | 717.1  | 709.2  | 699.2 | 683.3 | 673.4 | 661.5 | 665.5 | 657.5 | 649.6 | 655.5 | 645.6 |
| 7.5°  | 737.0  | 723.1  | 709.2 | 685.3 | 669.4 | 651.5 | 643.6 | 639.6 | 633.7 | 629.7 | 629.7 |
| 10°   | 764.8  | 744.9  | 719.1 | 683.3 | 657.5 | 629.7 | 625.7 | 617.8 | 611.8 | 611.8 | 609.8 |
| 12.5° | 792.6  | 770.7  | 727.0 | 669.4 | 625.7 | 605.9 | 603.9 | 605.9 | 609.8 | 611.8 | 613.8 |
| 15°   | 828.3  | 792.6  | 725.0 | 643.6 | 599.9 | 592.0 | 601.9 | 609.8 | 617.8 | 625.7 | 623.7 |
| 17.5° | 862.1  | 820.4  | 707.2 | 611.8 | 578.1 | 580.0 | 597.9 | 613.8 | 629.7 | 637.6 | 639.6 |
| 20°   | 907.8  | 846.2  | 681.3 | 574.1 | 556.2 | 574.1 | 597.9 | 617.8 | 635.7 | 645.6 | 647.6 |
| 22.5° | 959.4  | 876.0  | 647.6 | 540.3 | 538.3 | 556.2 | 580.0 | 609.8 | 629.7 | 647.6 | 645.6 |
| 25°   | 1005.1 | 895.9  | 603.9 | 512.5 | 516.5 | 528.4 | 556.2 | 588.0 | 607.8 | 627.7 | 621.8 |
| 27.5° | 1034.9 | 899.9  | 558.2 | 492.6 | 492.6 | 504.6 | 530.4 | 550.2 | 568.1 | 584.0 | 586.0 |
| 30°   | 1068.7 | 891.9  | 506.5 | 466.8 | 466.8 | 482.7 | 492.6 | 504.6 | 514.5 | 518.5 | 522.4 |
| 32.5° | 1108.4 | 874.0  | 474.8 | 446.9 | 446.9 | 458.9 | 464.8 | 460.9 | 458.9 | 448.9 | 454.9 |
| 35°   | 1146.2 | 848.2  | 439.0 | 421.1 | 429.1 | 435.0 | 433.0 | 421.1 | 409.2 | 391.3 | 385.4 |
| 37.5° | 1191.9 | 822.4  | 407.2 | 393.3 | 407.2 | 409.2 | 409.2 | 395.3 | 379.4 | 357.6 | 357.6 |
| 40°   | 1261.4 | 802.5  | 381.4 | 375.4 | 389.3 | 387.4 | 377.4 | 367.5 | 373.4 | 361.5 | 361.5 |
| 42.5° | 1334.9 | 794.6  | 357.6 | 359.5 | 365.5 | 367.5 | 357.6 | 345.6 | 369.5 | 355.6 | 357.6 |
| 45°   | 1426.3 | 800.5  | 341.7 | 339.7 | 353.6 | 351.6 | 345.6 | 335.7 | 343.7 | 307.9 | 298.0 |
| 47.5° | 1511.7 | 812.4  | 333.7 | 325.8 | 341.7 | 345.6 | 337.7 | 315.8 | 303.9 | 282.1 | 278.1 |
| 50°   | 1589.1 | 838.3  | 325.8 | 309.9 | 325.8 | 333.7 | 319.8 | 296.0 | 282.1 | 268.2 | 268.2 |
| 52.5° | 1662.6 | 876.0  | 321.8 | 292.0 | 305.9 | 315.8 | 307.9 | 284.1 | 268.2 | 262.2 | 256.2 |
| 55°   | 1738.1 | 909.8  | 315.8 | 280.1 | 284.1 | 303.9 | 301.9 | 270.2 | 254.3 | 254.3 | 252.3 |
| 57.5° | 1845.4 | 955.5  | 307.9 | 260.2 | 268.2 | 290.0 | 290.0 | 264.2 | 246.3 | 248.3 | 250.3 |
| 60°   | 1954.6 | 1009.1 | 300.0 | 240.4 | 246.3 | 276.1 | 280.1 | 256.2 | 240.4 | 242.3 | 240.4 |
| 62.5° | 2129.5 | 1108.4 | 284.1 | 216.5 | 228.4 | 258.2 | 268.2 | 246.3 | 232.4 | 236.4 | 236.4 |
| 65°   | 2393.6 | 1279.3 | 250.3 | 196.7 | 210.6 | 242.3 | 256.2 | 236.4 | 220.5 | 232.4 | 228.4 |
| 67.5° | 2818.7 | 1513.7 | 210.6 | 180.8 | 198.6 | 226.5 | 242.3 | 224.5 | 210.6 | 228.4 | 222.5 |
| 70°   | 3200.1 | 1628.9 | 180.8 | 166.9 | 180.8 | 208.6 | 226.5 | 212.5 | 198.6 | 216.5 | 208.6 |
| 72.5° | 3045.2 | 1277.3 | 156.9 | 151.0 | 164.9 | 188.7 | 210.6 | 196.7 | 182.8 | 192.7 | 184.7 |
| 75°   | 2628.0 | 1017.1 | 137.1 | 135.1 | 147.0 | 170.8 | 192.7 | 182.8 | 168.8 | 172.8 | 168.8 |
| 77.5° | 1992.4 | 840.3  | 117.2 | 115.2 | 125.1 | 153.0 | 172.8 | 164.9 | 151.0 | 149.0 | 149.0 |
| 80°   | 889.9  | 413.2  | 97.3  | 97.3  | 103.3 | 131.1 | 147.0 | 143.0 | 129.1 | 127.1 | 125.1 |
| 82.5° | 292.0  | 156.9  | 79.5  | 75.5  | 83.4  | 109.3 | 131.1 | 127.1 | 113.2 | 109.3 | 105.3 |
| 85°   | 117.2  | 75.5   | 57.6  | 57.6  | 65.6  | 91.4  | 117.2 | 109.3 | 91.4  | 81.4  | 81.4  |
| 87.5° | 39.7   | 31.8   | 29.8  | 29.8  | 41.7  | 61.6  | 87.4  | 73.5  | 65.6  | 57.6  | 59.6  |
| 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)