

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: P675399

Luminaire Tested: **CCW-SA-1A-735-U-SL2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675399  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-735-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SL2 distribution lens  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

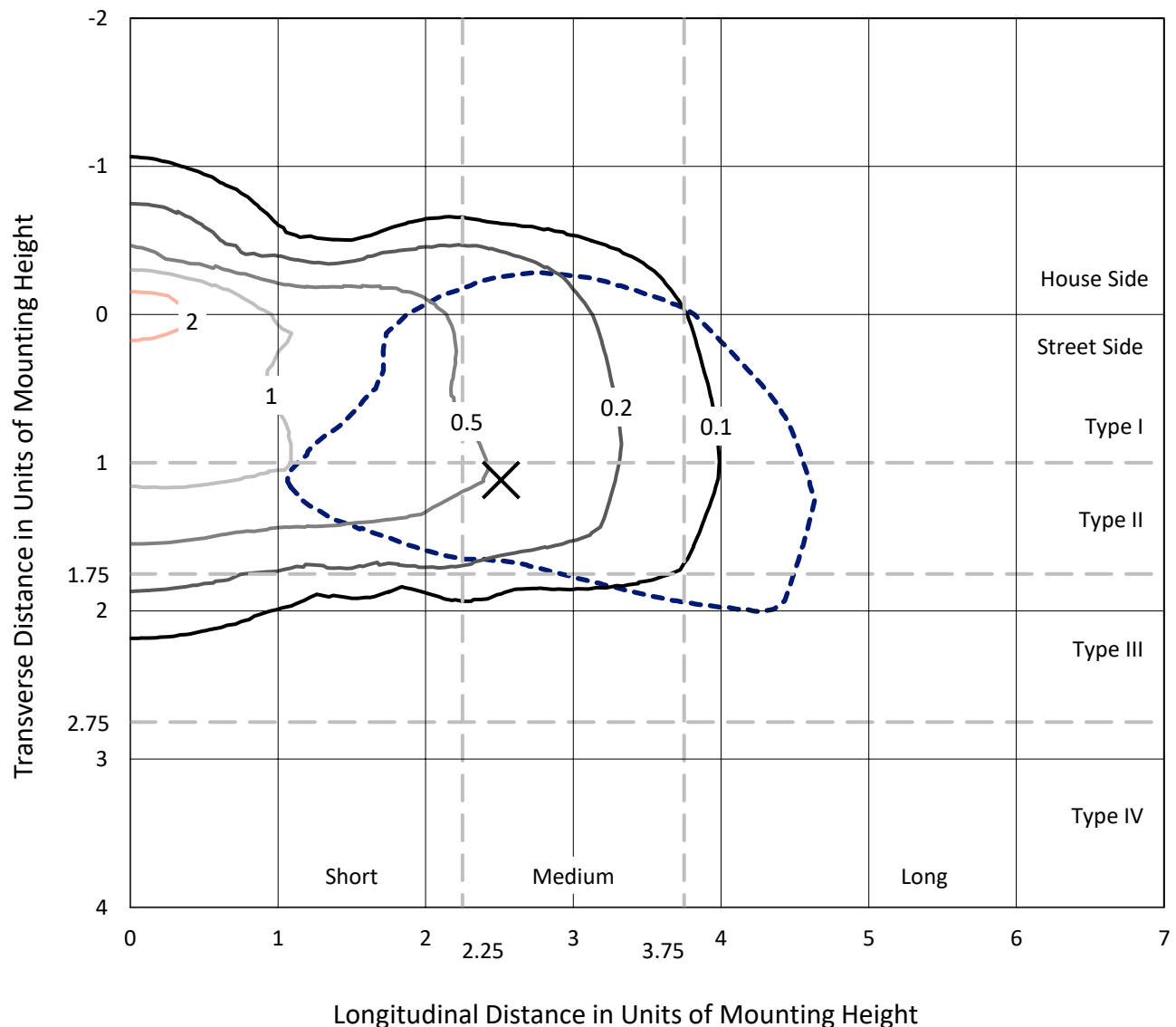
Lumens per Lamp: N/A  
Luminaire Lumens: 2670.5 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P675399  
 CATALOG NUMBER: CCW-SA-1A-735-U-SL2

## Iso-Footcandle Lines of Horizontal Illumination

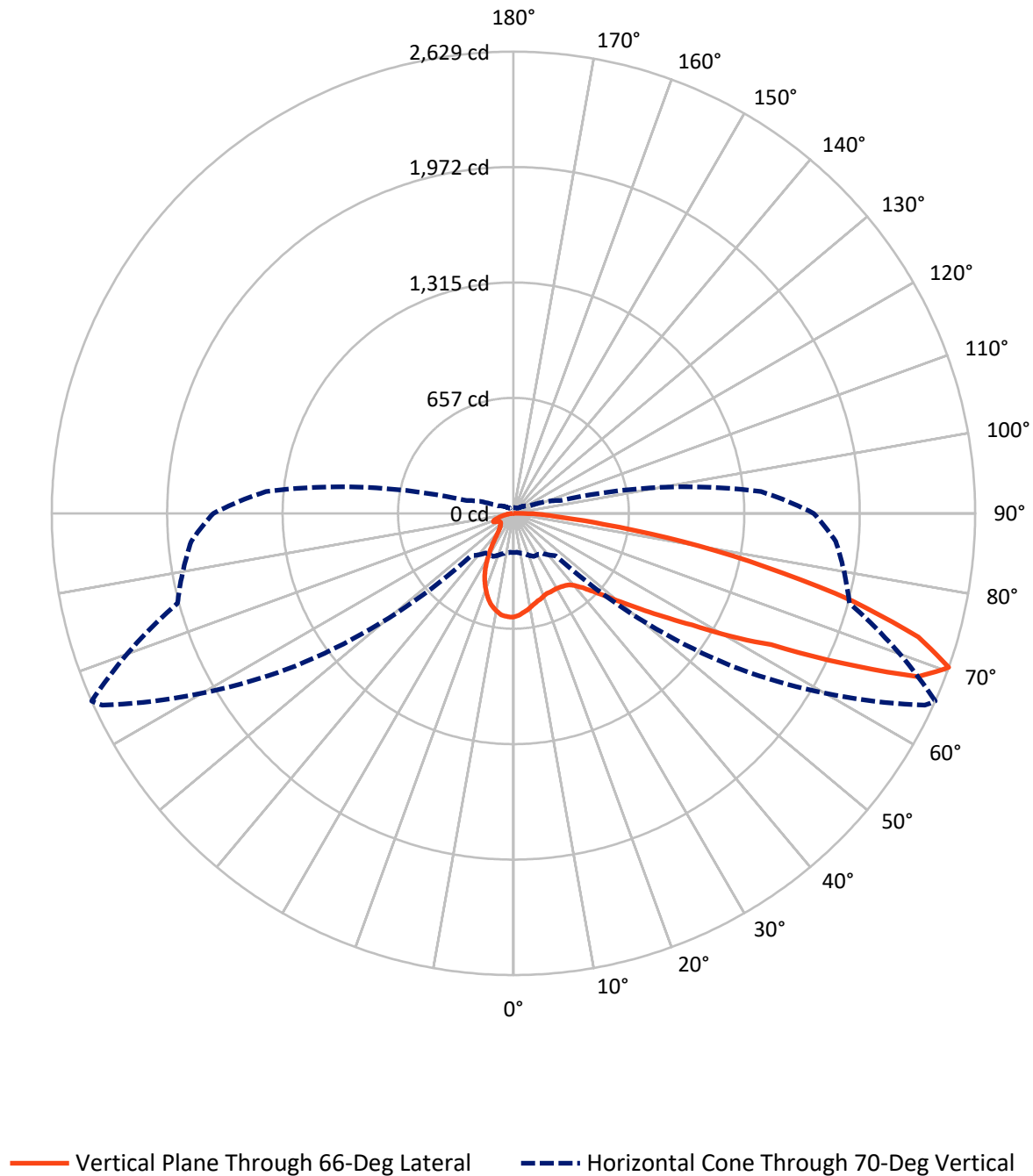
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P675399  
CATALOG NUMBER: CCW-SA-1A-735-U-SL2

## Luminous Intensity Polar Plot



REPORT NUMBER: P675399

CATALOG NUMBER: CCW-SA-1A-735-U-SL2

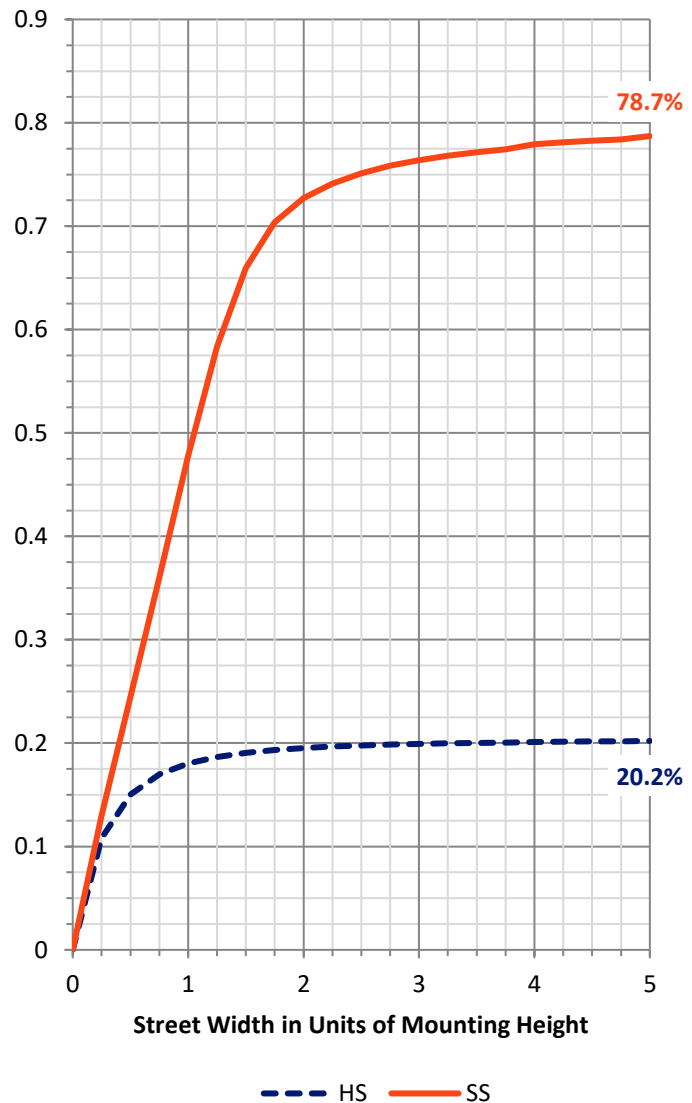
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 546.6    | 0.0    | 546.6  |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 2123.9   | 0.0    | 2123.9 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 2670.5   | 0.0    | 2670.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.2   | 2.0       |
| 10°-20°   | 128.4  | 4.8       |
| 20°-30°   | 176.4  | 6.6       |
| 30°-40°   | 236.5  | 8.9       |
| 40°-50°   | 343.1  | 12.8      |
| 50°-60°   | 521.5  | 19.5      |
| 60°-70°   | 644.1  | 24.1      |
| 70°-80°   | 479.0  | 17.9      |
| 80°-90°   | 89.3   | 3.3       |
| 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°    | 2670.5 | 100.0     |
| 0°-180°   | 2670.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P675399

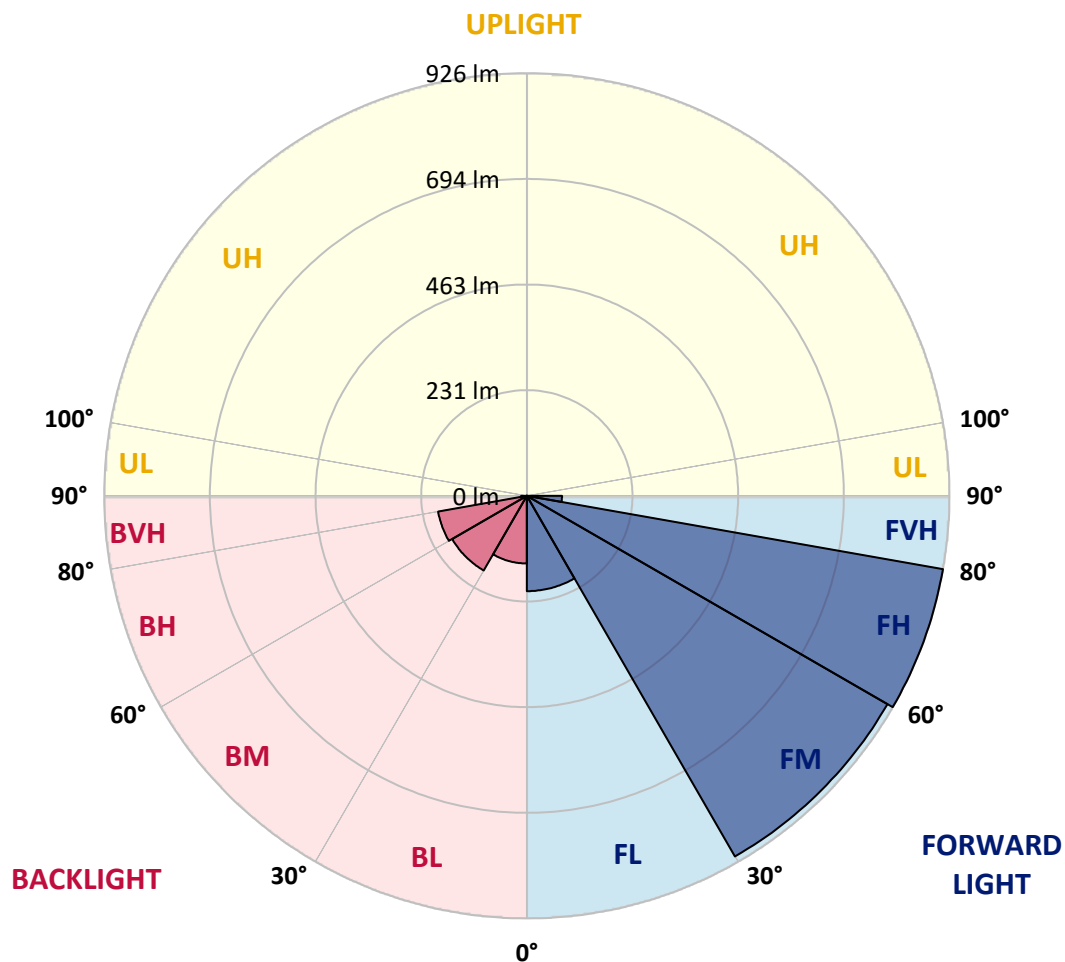
CATALOG NUMBER: CCW-SA-1A-735-U-SL2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 208.8  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 912.3  | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 925.8  | 34.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 77.0   | 2.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 148.1  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 188.8  | 7.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 197.3  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 12.3   | 0.5       |                         |      | 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 III Medium





REPORT NUMBER: P675399

CATALOG NUMBER: CCW-SA-1A-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 590.0 | 590.0 | 590.0 | 590.0 | 590.0  | 590.0  | 590.0  | 590.0  | 590.0  | 590.0  | 590.0  |
| 2.5°  | 561.2 | 564.2 | 565.2 | 567.2 | 572.1  | 576.1  | 582.1  | 585.0  | 582.1  | 586.0  | 586.0  |
| 5°    | 522.5 | 518.5 | 528.4 | 532.4 | 538.3  | 546.3  | 560.2  | 571.1  | 568.1  | 580.1  | 590.0  |
| 7.5°  | 489.7 | 489.7 | 492.7 | 501.6 | 508.6  | 520.5  | 535.4  | 552.3  | 557.2  | 573.1  | 588.0  |
| 10°   | 459.9 | 463.9 | 463.9 | 477.8 | 481.7  | 495.6  | 520.5  | 541.3  | 542.3  | 569.1  | 590.0  |
| 12.5° | 444.0 | 442.0 | 451.9 | 455.9 | 467.8  | 481.7  | 501.6  | 527.4  | 528.4  | 557.2  | 586.0  |
| 15°   | 431.1 | 433.1 | 438.0 | 448.0 | 458.9  | 469.8  | 488.7  | 512.5  | 517.5  | 551.3  | 584.0  |
| 17.5° | 432.1 | 433.1 | 433.1 | 440.0 | 449.0  | 461.9  | 479.7  | 507.6  | 510.5  | 543.3  | 581.1  |
| 20°   | 438.0 | 434.1 | 437.0 | 440.0 | 446.0  | 457.9  | 472.8  | 496.6  | 499.6  | 542.3  | 588.0  |
| 22.5° | 450.9 | 448.0 | 447.0 | 446.0 | 445.0  | 451.9  | 470.8  | 490.7  | 493.7  | 537.4  | 591.0  |
| 25°   | 471.8 | 470.8 | 463.9 | 456.9 | 451.9  | 451.9  | 466.8  | 495.6  | 494.6  | 537.4  | 593.0  |
| 27.5° | 496.6 | 496.6 | 495.6 | 482.7 | 467.8  | 459.9  | 469.8  | 493.7  | 492.7  | 537.4  | 597.9  |
| 30°   | 530.4 | 530.4 | 527.4 | 515.5 | 488.7  | 465.8  | 471.8  | 491.7  | 494.6  | 533.4  | 594.0  |
| 32.5° | 567.2 | 566.2 | 569.1 | 558.2 | 530.4  | 493.7  | 483.7  | 495.6  | 498.6  | 537.4  | 595.0  |
| 35°   | 594.0 | 599.9 | 609.9 | 599.9 | 572.1  | 522.5  | 500.6  | 503.6  | 505.6  | 538.3  | 598.9  |
| 37.5° | 624.8 | 631.7 | 645.6 | 653.6 | 623.8  | 566.2  | 527.4  | 516.5  | 516.5  | 551.3  | 599.9  |
| 40°   | 669.5 | 662.5 | 686.3 | 700.3 | 688.3  | 619.8  | 569.1  | 540.3  | 541.3  | 568.1  | 612.8  |
| 42.5° | 702.2 | 709.2 | 734.0 | 758.9 | 744.0  | 685.4  | 614.8  | 579.1  | 579.1  | 593.0  | 632.7  |
| 45°   | 739.0 | 746.9 | 781.7 | 811.5 | 822.4  | 763.8  | 677.4  | 634.7  | 632.7  | 641.6  | 668.5  |
| 47.5° | 779.7 | 790.6 | 830.4 | 865.1 | 893.9  | 845.3  | 757.9  | 702.2  | 701.2  | 708.2  | 728.1  |
| 50°   | 826.4 | 830.4 | 863.1 | 926.7 | 984.3  | 953.5  | 856.2  | 797.6  | 792.6  | 795.6  | 822.4  |
| 52.5° | 840.3 | 837.3 | 875.1 | 943.6 | 1048.9 | 1085.6 | 990.3  | 905.9  | 903.9  | 896.9  | 931.7  |
| 55°   | 789.6 | 799.6 | 836.3 | 923.7 | 1101.5 | 1241.6 | 1137.3 | 1053.9 | 1036.0 | 1017.1 | 1058.8 |
| 57.5° | 688.3 | 689.3 | 731.0 | 834.3 | 1060.8 | 1370.7 | 1386.6 | 1198.9 | 1199.9 | 1149.2 | 1196.9 |
| 60°   | 535.4 | 532.4 | 565.2 | 658.5 | 944.6  | 1410.4 | 1658.8 | 1430.3 | 1420.4 | 1281.3 | 1325.0 |
| 62.5° | 386.4 | 380.4 | 387.4 | 442.0 | 706.2  | 1349.8 | 1925.9 | 1689.5 | 1647.8 | 1416.4 | 1450.2 |
| 65°   | 317.8 | 320.8 | 323.8 | 326.8 | 396.3  | 1113.4 | 2008.4 | 2112.7 | 2057.1 | 1574.3 | 1588.2 |
| 67.5° | 263.2 | 265.2 | 278.1 | 296.0 | 294.0  | 657.5  | 1913.0 | 2504.0 | 2483.2 | 1770.0 | 1707.4 |
| 70°   | 223.5 | 222.5 | 237.4 | 270.2 | 275.1  | 341.7  | 1514.7 | 2584.5 | 2629.2 | 1980.6 | 1842.5 |
| 72.5° | 178.8 | 180.8 | 193.7 | 237.4 | 270.2  | 288.0  | 872.1  | 2411.6 | 2410.7 | 2142.5 | 1770.0 |
| 75°   | 128.1 | 128.1 | 146.0 | 196.7 | 261.2  | 285.1  | 482.7  | 1957.7 | 1994.5 | 2013.3 | 1535.6 |
| 77.5° | 84.4  | 88.4  | 102.3 | 147.0 | 245.3  | 279.1  | 305.9  | 1423.3 | 1469.0 | 1505.8 | 1175.0 |
| 80°   | 57.6  | 59.6  | 68.5  | 102.3 | 207.6  | 281.1  | 250.3  | 957.5  | 975.4  | 831.4  | 476.8  |
| 82.5° | 34.8  | 35.8  | 45.7  | 71.5  | 149.0  | 267.2  | 235.4  | 528.4  | 517.5  | 251.3  | 137.1  |
| 85°   | 18.9  | 19.9  | 28.8  | 47.7  | 98.3   | 233.4  | 231.4  | 259.2  | 241.4  | 92.4   | 57.6   |
| 87.5° | 7.0   | 7.0   | 12.9  | 23.8  | 56.6   | 159.9  | 201.6  | 154.0  | 144.0  | 46.7   | 26.8   |
| 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: P675399

CATALOG NUMBER: CCW-SA-1A-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 590.0  | 590.0  | 590.0 | 590.0 | 590.0 | 590.0 | 590.0 | 590.0 | 590.0 | 590.0 | 590.0 |
| 2.5°  | 591.0  | 591.0  | 591.0 | 591.0 | 590.0 | 586.0 | 589.0 | 588.0 | 582.1 | 583.0 | 579.1 |
| 5°    | 589.0  | 594.0  | 591.0 | 587.0 | 582.1 | 570.1 | 566.2 | 563.2 | 555.2 | 552.3 | 555.2 |
| 7.5°  | 594.0  | 590.0  | 588.0 | 581.1 | 561.2 | 550.3 | 536.4 | 519.5 | 507.6 | 504.6 | 507.6 |
| 10°   | 593.0  | 593.0  | 584.0 | 564.2 | 545.3 | 513.5 | 495.6 | 465.8 | 449.0 | 444.0 | 445.0 |
| 12.5° | 589.0  | 592.0  | 578.1 | 546.3 | 510.5 | 471.8 | 439.0 | 407.2 | 377.4 | 365.5 | 363.5 |
| 15°   | 593.0  | 590.0  | 565.2 | 524.4 | 474.8 | 421.1 | 373.5 | 326.8 | 299.0 | 281.1 | 277.1 |
| 17.5° | 587.0  | 584.0  | 548.3 | 494.6 | 428.1 | 359.6 | 300.0 | 249.3 | 221.5 | 214.5 | 214.5 |
| 20°   | 594.0  | 575.1  | 528.4 | 458.9 | 379.4 | 292.0 | 224.5 | 186.7 | 179.8 | 179.8 | 181.8 |
| 22.5° | 593.0  | 573.1  | 511.5 | 424.1 | 320.8 | 220.5 | 166.9 | 155.9 | 156.9 | 164.9 | 163.9 |
| 25°   | 587.0  | 569.1  | 487.7 | 385.4 | 259.2 | 165.9 | 138.1 | 135.1 | 142.0 | 151.0 | 150.0 |
| 27.5° | 586.0  | 558.2  | 465.8 | 339.7 | 197.7 | 131.1 | 120.2 | 120.2 | 127.1 | 135.1 | 134.1 |
| 30°   | 580.1  | 549.3  | 439.0 | 288.0 | 149.0 | 114.2 | 110.3 | 110.3 | 113.2 | 117.2 | 117.2 |
| 32.5° | 579.1  | 537.4  | 409.2 | 234.4 | 119.2 | 103.3 | 101.3 | 102.3 | 102.3 | 104.3 | 103.3 |
| 35°   | 571.1  | 521.5  | 378.4 | 181.8 | 103.3 | 97.3  | 95.4  | 94.4  | 94.4  | 93.4  | 93.4  |
| 37.5° | 568.1  | 511.5  | 346.6 | 141.0 | 96.3  | 92.4  | 90.4  | 87.4  | 86.4  | 86.4  | 85.4  |
| 40°   | 571.1  | 501.6  | 315.9 | 114.2 | 90.4  | 88.4  | 85.4  | 81.4  | 80.5  | 80.5  | 80.5  |
| 42.5° | 582.1  | 500.6  | 284.1 | 99.3  | 87.4  | 84.4  | 80.5  | 76.5  | 75.5  | 76.5  | 75.5  |
| 45°   | 606.9  | 508.6  | 253.3 | 92.4  | 83.4  | 80.5  | 75.5  | 72.5  | 71.5  | 72.5  | 72.5  |
| 47.5° | 647.6  | 530.4  | 225.5 | 88.4  | 80.5  | 76.5  | 71.5  | 68.5  | 68.5  | 68.5  | 68.5  |
| 50°   | 715.2  | 572.1  | 198.7 | 85.4  | 78.5  | 73.5  | 68.5  | 64.6  | 63.6  | 63.6  | 64.6  |
| 52.5° | 816.5  | 643.6  | 176.8 | 83.4  | 75.5  | 69.5  | 64.6  | 61.6  | 59.6  | 58.6  | 59.6  |
| 55°   | 938.6  | 747.9  | 169.8 | 81.4  | 71.5  | 66.5  | 61.6  | 57.6  | 55.6  | 55.6  | 54.6  |
| 57.5° | 1069.7 | 863.1  | 181.8 | 79.5  | 68.5  | 62.6  | 57.6  | 53.6  | 51.6  | 50.7  | 50.7  |
| 60°   | 1211.8 | 999.2  | 225.5 | 78.5  | 65.6  | 58.6  | 53.6  | 50.7  | 47.7  | 46.7  | 46.7  |
| 62.5° | 1340.9 | 1122.4 | 303.9 | 77.5  | 63.6  | 54.6  | 49.7  | 45.7  | 43.7  | 42.7  | 42.7  |
| 65°   | 1487.9 | 1259.5 | 380.4 | 81.4  | 62.6  | 51.6  | 45.7  | 41.7  | 39.7  | 38.7  | 38.7  |
| 67.5° | 1616.0 | 1378.7 | 425.1 | 91.4  | 65.6  | 47.7  | 40.7  | 37.7  | 36.8  | 35.8  | 35.8  |
| 70°   | 1709.4 | 1415.4 | 285.1 | 100.3 | 70.5  | 44.7  | 36.8  | 34.8  | 32.8  | 32.8  | 32.8  |
| 72.5° | 1584.3 | 1263.4 | 168.9 | 94.4  | 66.5  | 41.7  | 32.8  | 30.8  | 29.8  | 29.8  | 28.8  |
| 75°   | 1354.8 | 1075.7 | 130.1 | 76.5  | 53.6  | 35.8  | 28.8  | 26.8  | 25.8  | 25.8  | 24.8  |
| 77.5° | 1000.2 | 770.8  | 96.3  | 60.6  | 41.7  | 28.8  | 24.8  | 23.8  | 22.8  | 21.9  | 21.9  |
| 80°   | 391.3  | 337.7  | 65.6  | 44.7  | 30.8  | 22.8  | 20.9  | 19.9  | 18.9  | 17.9  | 17.9  |
| 82.5° | 121.2  | 102.3  | 37.7  | 29.8  | 21.9  | 17.9  | 16.9  | 15.9  | 14.9  | 13.9  | 13.9  |
| 85°   | 52.6   | 50.7   | 24.8  | 18.9  | 14.9  | 11.9  | 11.9  | 10.9  | 9.9   | 8.9   | 8.9   |
| 87.5° | 25.8   | 24.8   | 13.9  | 8.9   | 7.9   | 6.0   | 6.0   | 5.0   | 4.0   | 4.0   | 4.0   |
| 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)