

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: P674802

Luminaire Tested: **CCW-SA-1B-727-U-T2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P674802  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-727-U-T2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T2 distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2881 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

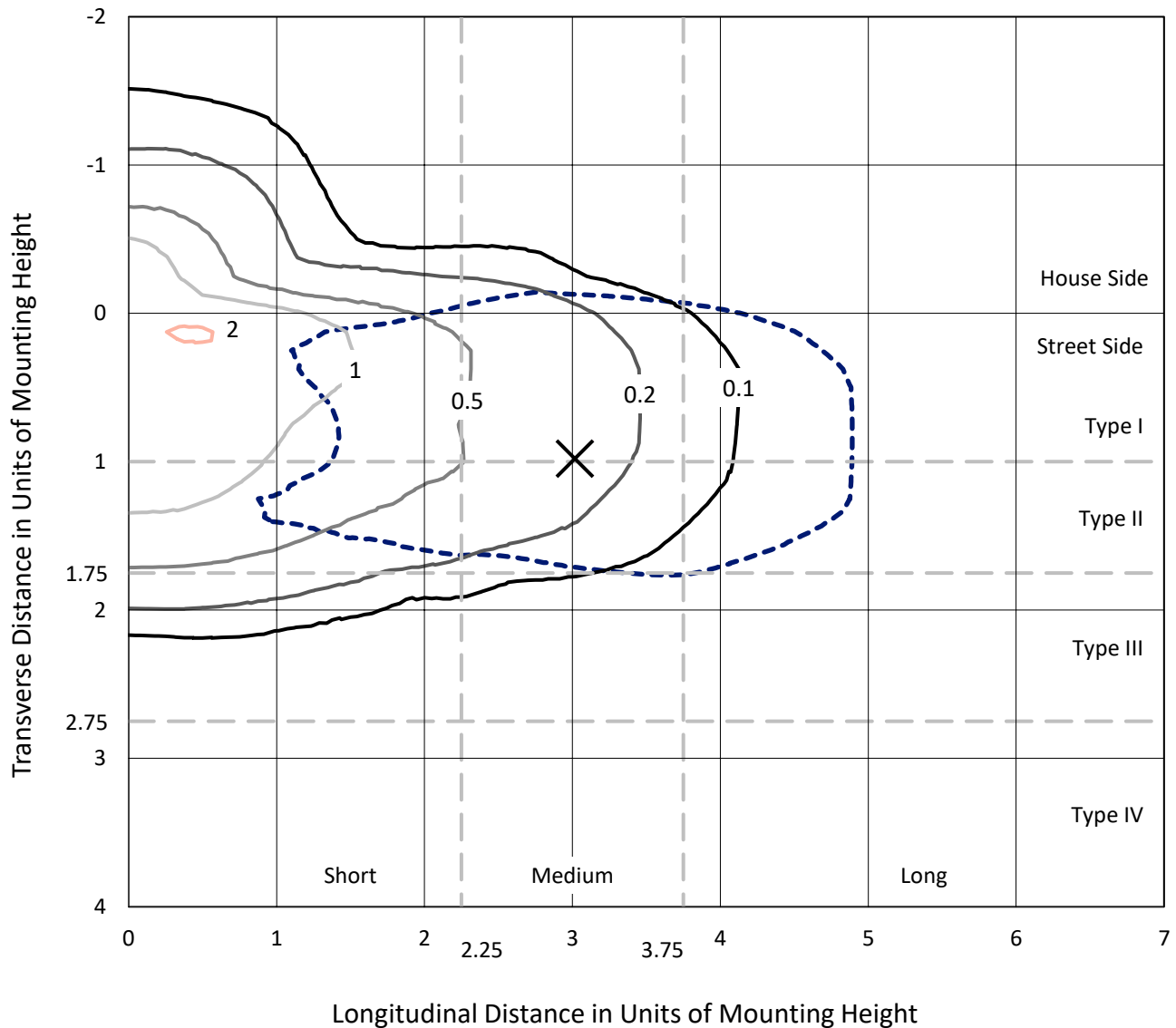
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

REPORT NUMBER: P674802

CATALOG NUMBER: CCW-SA-1B-727-U-T2

## Iso-Footcandle Lines of Horizontal Illumination

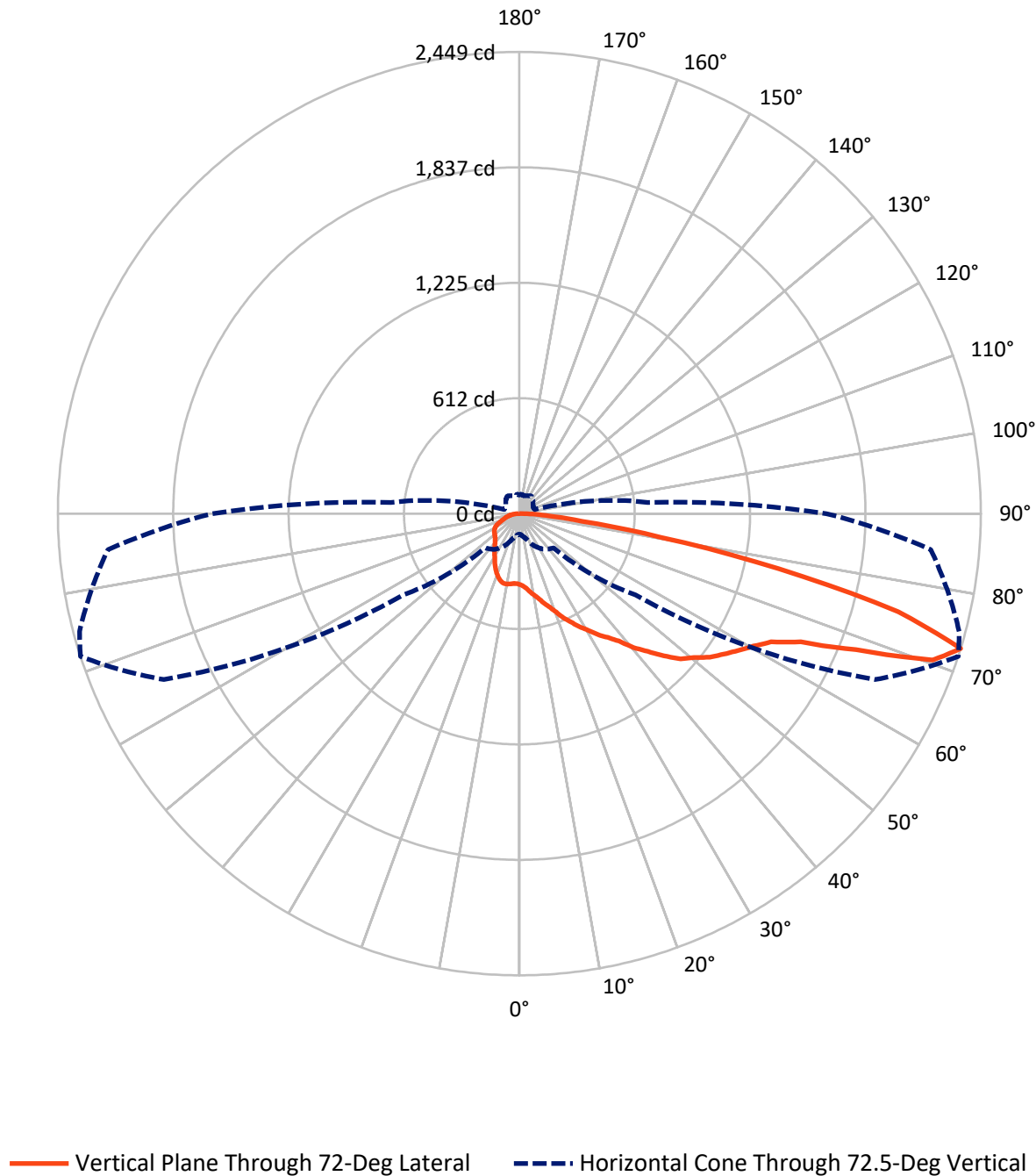
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P674802  
CATALOG NUMBER: CCW-SA-1B-727-U-T2

## Luminous Intensity Polar Plot



REPORT NUMBER: P674802

CATALOG NUMBER: CCW-SA-1B-727-U-T2

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 606.3    | 0.0    | 606.3  |
|                    | % Fixture | 21.0     | 0.0    | 21.0   |
| <b>Street Side</b> | Lumens    | 2274.7   | 0.0    | 2274.7 |
|                    | % Fixture | 79.0     | 0.0    | 79.0   |
| <b>Total</b>       | Lumens    | 2881.0   | 0.0    | 2881.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.2   | 1.3       |
| 10°-20°   | 115.6  | 4.0       |
| 20°-30°   | 200.1  | 6.9       |
| 30°-40°   | 295.5  | 10.3      |
| 40°-50°   | 439.4  | 15.3      |
| 50°-60°   | 602.5  | 20.9      |
| 60°-70°   | 653.5  | 22.7      |
| 70°-80°   | 460.7  | 16.0      |
| 80°-90°   | 76.5   | 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°    | 2881.0 | 100.0     |
| 0°-180°   | 2881.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P674802

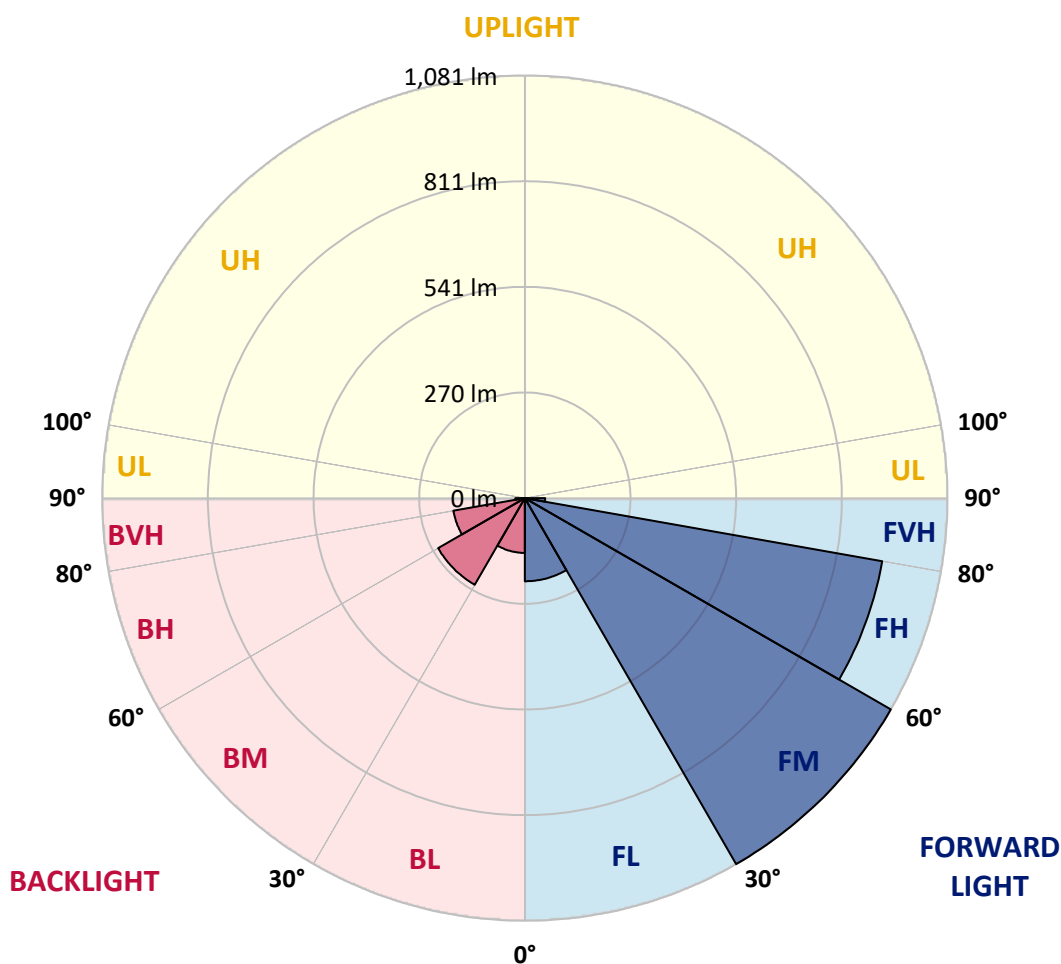
CATALOG NUMBER: CCW-SA-1B-727-U-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 212.7  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 1081.3 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 928.5  | 32.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 52.2   | 1.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 140.1  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 256.1  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 185.7  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 24.4   | 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: P674802

CATALOG NUMBER: CCW-SA-1B-727-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 376.3  | 376.3  | 376.3  | 376.3  | 376.3  | 376.3  | 376.3  | 376.3  | 376.3  | 376.3  | 376.3  |
| 2.5°  | 406.1  | 406.1  | 402.9  | 401.9  | 401.9  | 393.4  | 394.4  | 389.1  | 384.8  | 384.8  | 380.6  |
| 5°    | 427.4  | 425.2  | 425.2  | 425.2  | 419.9  | 416.7  | 415.7  | 406.1  | 398.7  | 399.7  | 387.0  |
| 7.5°  | 432.7  | 433.8  | 434.8  | 440.1  | 436.9  | 439.1  | 436.9  | 426.3  | 421.0  | 415.7  | 404.0  |
| 10°   | 435.9  | 438.0  | 438.0  | 445.4  | 445.4  | 450.8  | 454.0  | 449.7  | 440.1  | 434.8  | 415.7  |
| 12.5° | 443.3  | 440.1  | 444.4  | 449.7  | 455.0  | 464.6  | 474.2  | 469.9  | 463.5  | 457.1  | 435.9  |
| 15°   | 443.3  | 444.4  | 447.6  | 456.1  | 464.6  | 474.2  | 491.2  | 497.5  | 494.4  | 482.7  | 460.3  |
| 17.5° | 430.6  | 427.4  | 442.3  | 458.2  | 474.2  | 485.8  | 508.2  | 523.1  | 520.9  | 516.7  | 482.7  |
| 20°   | 431.6  | 434.8  | 440.1  | 454.0  | 479.5  | 500.7  | 528.4  | 552.8  | 558.1  | 556.0  | 512.4  |
| 22.5° | 450.8  | 451.8  | 457.1  | 463.5  | 483.7  | 511.4  | 552.8  | 592.2  | 601.7  | 596.4  | 545.4  |
| 25°   | 469.9  | 478.4  | 478.4  | 482.7  | 490.1  | 518.8  | 568.8  | 624.1  | 637.9  | 638.9  | 579.4  |
| 27.5° | 500.7  | 502.9  | 509.2  | 511.4  | 517.7  | 534.7  | 586.8  | 647.4  | 679.3  | 675.1  | 610.2  |
| 30°   | 536.9  | 537.9  | 542.2  | 540.1  | 541.1  | 562.4  | 603.9  | 674.0  | 717.6  | 718.7  | 643.2  |
| 32.5° | 579.4  | 587.9  | 590.0  | 576.2  | 578.3  | 583.7  | 630.4  | 705.9  | 765.4  | 758.0  | 671.9  |
| 35°   | 642.1  | 645.3  | 638.9  | 632.6  | 616.6  | 613.4  | 658.1  | 737.8  | 806.9  | 815.4  | 714.4  |
| 37.5° | 719.7  | 728.2  | 719.7  | 685.7  | 668.7  | 655.9  | 692.1  | 772.9  | 856.9  | 885.6  | 756.9  |
| 40°   | 792.0  | 791.0  | 782.5  | 751.6  | 721.9  | 712.3  | 741.0  | 821.8  | 934.5  | 962.1  | 818.6  |
| 42.5° | 850.5  | 847.3  | 842.0  | 818.6  | 791.0  | 775.0  | 797.3  | 872.8  | 999.3  | 1052.5 | 889.8  |
| 45°   | 901.5  | 897.3  | 898.3  | 871.8  | 845.2  | 853.7  | 853.7  | 931.3  | 1075.9 | 1141.8 | 971.7  |
| 47.5° | 949.4  | 951.5  | 948.3  | 928.1  | 907.9  | 930.2  | 918.5  | 998.3  | 1151.4 | 1224.7 | 1040.8 |
| 50°   | 1004.6 | 1008.9 | 998.3  | 985.5  | 967.4  | 989.8  | 974.9  | 1061.0 | 1200.3 | 1300.2 | 1123.7 |
| 52.5° | 1056.7 | 1061.0 | 1070.6 | 1054.6 | 1036.5 | 1054.6 | 1020.6 | 1119.5 | 1265.1 | 1373.6 | 1187.5 |
| 55°   | 1069.5 | 1067.4 | 1120.5 | 1137.5 | 1147.1 | 1092.9 | 1061.0 | 1169.4 | 1316.1 | 1420.3 | 1259.8 |
| 57.5° | 1011.0 | 1016.3 | 1088.6 | 1137.5 | 1239.6 | 1192.8 | 1106.7 | 1227.9 | 1369.3 | 1482.0 | 1326.8 |
| 60°   | 865.4  | 868.6  | 958.9  | 1074.8 | 1223.7 | 1286.4 | 1230.0 | 1303.4 | 1427.8 | 1534.1 | 1402.3 |
| 62.5° | 578.3  | 602.8  | 715.5  | 897.3  | 1111.0 | 1311.9 | 1426.7 | 1431.0 | 1499.0 | 1600.0 | 1505.4 |
| 65°   | 305.1  | 316.8  | 405.0  | 551.8  | 842.0  | 1223.7 | 1611.7 | 1684.0 | 1641.5 | 1721.2 | 1654.2 |
| 67.5° | 199.9  | 204.1  | 252.0  | 334.9  | 485.8  | 893.0  | 1633.0 | 2123.0 | 1927.4 | 1951.9 | 1892.4 |
| 70°   | 148.8  | 151.0  | 186.0  | 247.7  | 300.9  | 477.3  | 1338.5 | 2328.2 | 2327.2 | 2262.3 | 2175.1 |
| 72.5° | 109.5  | 112.7  | 137.1  | 189.2  | 231.8  | 257.3  | 752.7  | 2082.7 | 2449.4 | 2416.5 | 2192.2 |
| 75°   | 86.1   | 88.2   | 101.0  | 146.7  | 187.1  | 169.0  | 381.7  | 1542.6 | 2077.3 | 2235.7 | 2006.1 |
| 77.5° | 70.2   | 72.3   | 79.7   | 106.3  | 149.9  | 130.8  | 182.9  | 995.1  | 1408.6 | 1609.6 | 1535.1 |
| 80°   | 58.5   | 58.5   | 63.8   | 75.5   | 115.9  | 98.9   | 108.4  | 559.2  | 759.1  | 837.7  | 696.3  |
| 82.5° | 50.0   | 48.9   | 53.2   | 55.3   | 86.1   | 71.2   | 70.2   | 253.0  | 333.8  | 354.0  | 261.5  |
| 85°   | 31.9   | 33.0   | 50.0   | 47.8   | 56.3   | 48.9   | 39.3   | 120.1  | 157.3  | 160.5  | 97.8   |
| 87.5° | 12.8   | 12.8   | 21.3   | 26.6   | 31.9   | 29.8   | 19.1   | 54.2   | 69.1   | 69.1   | 27.6   |
| 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: P674802

CATALOG NUMBER: CCW-SA-1B-727-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 376.3  | 376.3 | 376.3 | 376.3 | 376.3 | 376.3 | 376.3 | 376.3 | 376.3 | 376.3 | 376.3 |
| 2.5°  | 379.5  | 375.3 | 372.1 | 370.0 | 364.6 | 359.3 | 360.4 | 359.3 | 355.1 | 353.0 | 353.0 |
| 5°    | 383.8  | 379.5 | 374.2 | 365.7 | 360.4 | 354.0 | 356.1 | 351.9 | 347.6 | 350.8 | 345.5 |
| 7.5°  | 394.4  | 387.0 | 379.5 | 366.8 | 358.3 | 348.7 | 344.5 | 342.3 | 339.1 | 337.0 | 337.0 |
| 10°   | 409.3  | 398.7 | 384.8 | 365.7 | 351.9 | 337.0 | 334.9 | 330.6 | 327.4 | 327.4 | 326.4 |
| 12.5° | 424.2  | 412.5 | 389.1 | 358.3 | 334.9 | 324.3 | 323.2 | 324.3 | 326.4 | 327.4 | 328.5 |
| 15°   | 443.3  | 424.2 | 388.0 | 344.5 | 321.1 | 316.8 | 322.1 | 326.4 | 330.6 | 334.9 | 333.8 |
| 17.5° | 461.4  | 439.1 | 378.5 | 327.4 | 309.4 | 310.4 | 320.0 | 328.5 | 337.0 | 341.3 | 342.3 |
| 20°   | 485.8  | 452.9 | 364.6 | 307.2 | 297.7 | 307.2 | 320.0 | 330.6 | 340.2 | 345.5 | 346.6 |
| 22.5° | 513.5  | 468.8 | 346.6 | 289.2 | 288.1 | 297.7 | 310.4 | 326.4 | 337.0 | 346.6 | 345.5 |
| 25°   | 537.9  | 479.5 | 323.2 | 274.3 | 276.4 | 282.8 | 297.7 | 314.7 | 325.3 | 335.9 | 332.8 |
| 27.5° | 553.9  | 481.6 | 298.7 | 263.7 | 263.7 | 270.0 | 283.9 | 294.5 | 304.1 | 312.6 | 313.6 |
| 30°   | 572.0  | 477.3 | 271.1 | 249.8 | 249.8 | 258.3 | 263.7 | 270.0 | 275.3 | 277.5 | 279.6 |
| 32.5° | 593.2  | 467.8 | 254.1 | 239.2 | 239.2 | 245.6 | 248.8 | 246.6 | 245.6 | 240.3 | 243.5 |
| 35°   | 613.4  | 454.0 | 234.9 | 225.4 | 229.6 | 232.8 | 231.8 | 225.4 | 219.0 | 209.4 | 206.2 |
| 37.5° | 637.9  | 440.1 | 217.9 | 210.5 | 217.9 | 219.0 | 219.0 | 211.6 | 203.1 | 191.4 | 191.4 |
| 40°   | 675.1  | 429.5 | 204.1 | 200.9 | 208.4 | 207.3 | 202.0 | 196.7 | 199.9 | 193.5 | 193.5 |
| 42.5° | 714.4  | 425.2 | 191.4 | 192.4 | 195.6 | 196.7 | 191.4 | 185.0 | 197.7 | 190.3 | 191.4 |
| 45°   | 763.3  | 428.4 | 182.9 | 181.8 | 189.2 | 188.2 | 185.0 | 179.7 | 183.9 | 164.8 | 159.5 |
| 47.5° | 809.0  | 434.8 | 178.6 | 174.4 | 182.9 | 185.0 | 180.7 | 169.0 | 162.7 | 151.0 | 148.8 |
| 50°   | 850.5  | 448.6 | 174.4 | 165.8 | 174.4 | 178.6 | 171.2 | 158.4 | 151.0 | 143.5 | 143.5 |
| 52.5° | 889.8  | 468.8 | 172.2 | 156.3 | 163.7 | 169.0 | 164.8 | 152.0 | 143.5 | 140.3 | 137.1 |
| 55°   | 930.2  | 486.9 | 169.0 | 149.9 | 152.0 | 162.7 | 161.6 | 144.6 | 136.1 | 136.1 | 135.0 |
| 57.5° | 987.6  | 511.4 | 164.8 | 139.3 | 143.5 | 155.2 | 155.2 | 141.4 | 131.8 | 132.9 | 134.0 |
| 60°   | 1046.1 | 540.1 | 160.5 | 128.6 | 131.8 | 147.8 | 149.9 | 137.1 | 128.6 | 129.7 | 128.6 |
| 62.5° | 1139.7 | 593.2 | 152.0 | 115.9 | 122.3 | 138.2 | 143.5 | 131.8 | 124.4 | 126.5 | 126.5 |
| 65°   | 1281.1 | 684.6 | 134.0 | 105.2 | 112.7 | 129.7 | 137.1 | 126.5 | 118.0 | 124.4 | 122.3 |
| 67.5° | 1508.6 | 810.1 | 112.7 | 96.7  | 106.3 | 121.2 | 129.7 | 120.1 | 112.7 | 122.3 | 119.1 |
| 70°   | 1712.7 | 871.8 | 96.7  | 89.3  | 96.7  | 111.6 | 121.2 | 113.8 | 106.3 | 115.9 | 111.6 |
| 72.5° | 1629.8 | 683.6 | 84.0  | 80.8  | 88.2  | 101.0 | 112.7 | 105.2 | 97.8  | 103.1 | 98.9  |
| 75°   | 1406.5 | 544.3 | 73.4  | 72.3  | 78.7  | 91.4  | 103.1 | 97.8  | 90.4  | 92.5  | 90.4  |
| 77.5° | 1066.3 | 449.7 | 62.7  | 61.7  | 67.0  | 81.9  | 92.5  | 88.2  | 80.8  | 79.7  | 79.7  |
| 80°   | 476.3  | 221.1 | 52.1  | 52.1  | 55.3  | 70.2  | 78.7  | 76.5  | 69.1  | 68.0  | 67.0  |
| 82.5° | 156.3  | 84.0  | 42.5  | 40.4  | 44.7  | 58.5  | 70.2  | 68.0  | 60.6  | 58.5  | 56.3  |
| 85°   | 62.7   | 40.4  | 30.8  | 30.8  | 35.1  | 48.9  | 62.7  | 58.5  | 48.9  | 43.6  | 43.6  |
| 87.5° | 21.3   | 17.0  | 15.9  | 15.9  | 22.3  | 33.0  | 46.8  | 39.3  | 35.1  | 30.8  | 31.9  |
| 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)