

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: P671934

Luminaire Tested: **CCP-SA-1B-727-U-AFL**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671934  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-727-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ AFL  
distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2914.7 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

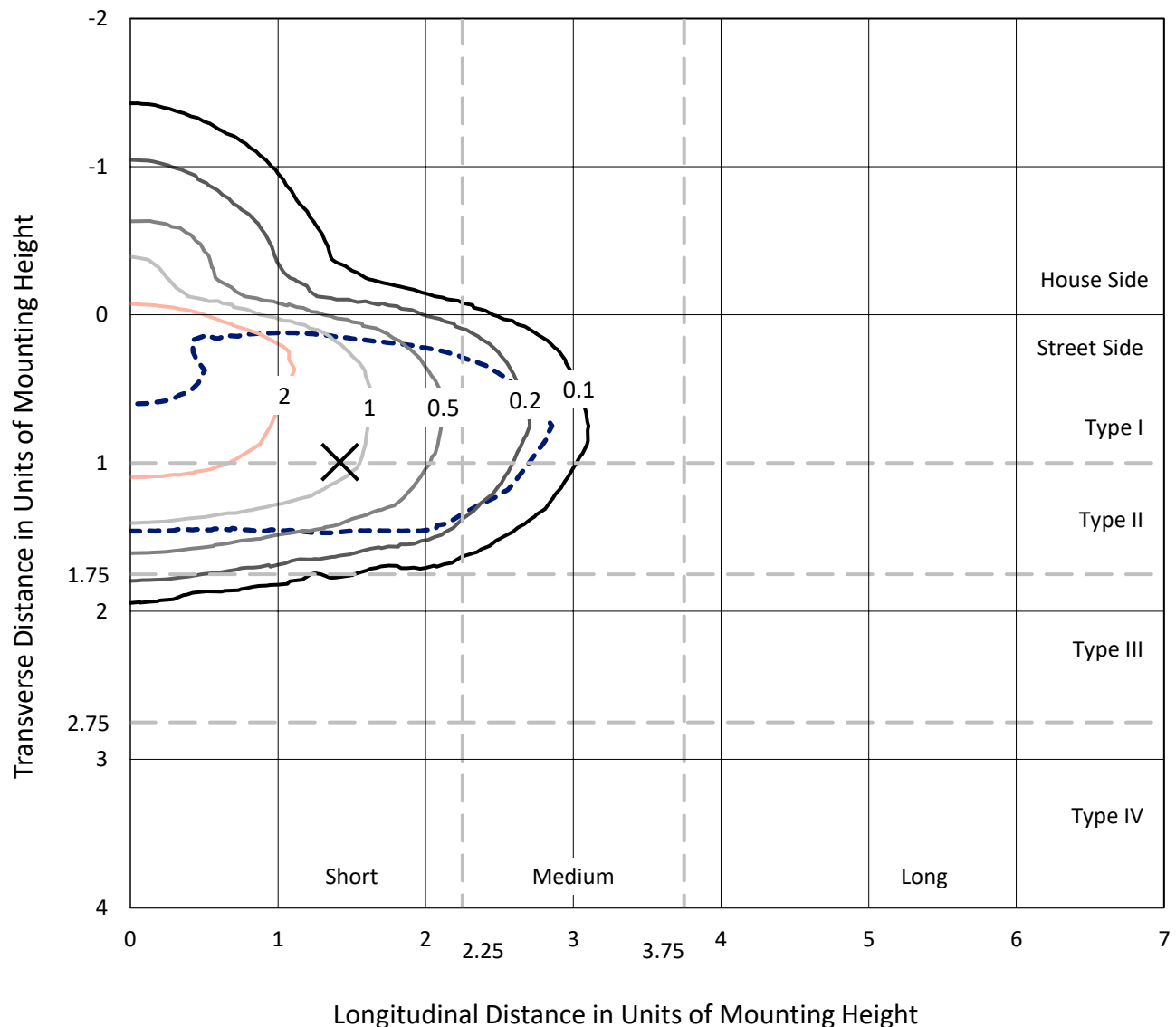
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

REPORT NUMBER: P671934

CATALOG NUMBER: CCP-SA-1B-727-U-AFL

## Iso-Footcandle Lines of Horizontal Illumination

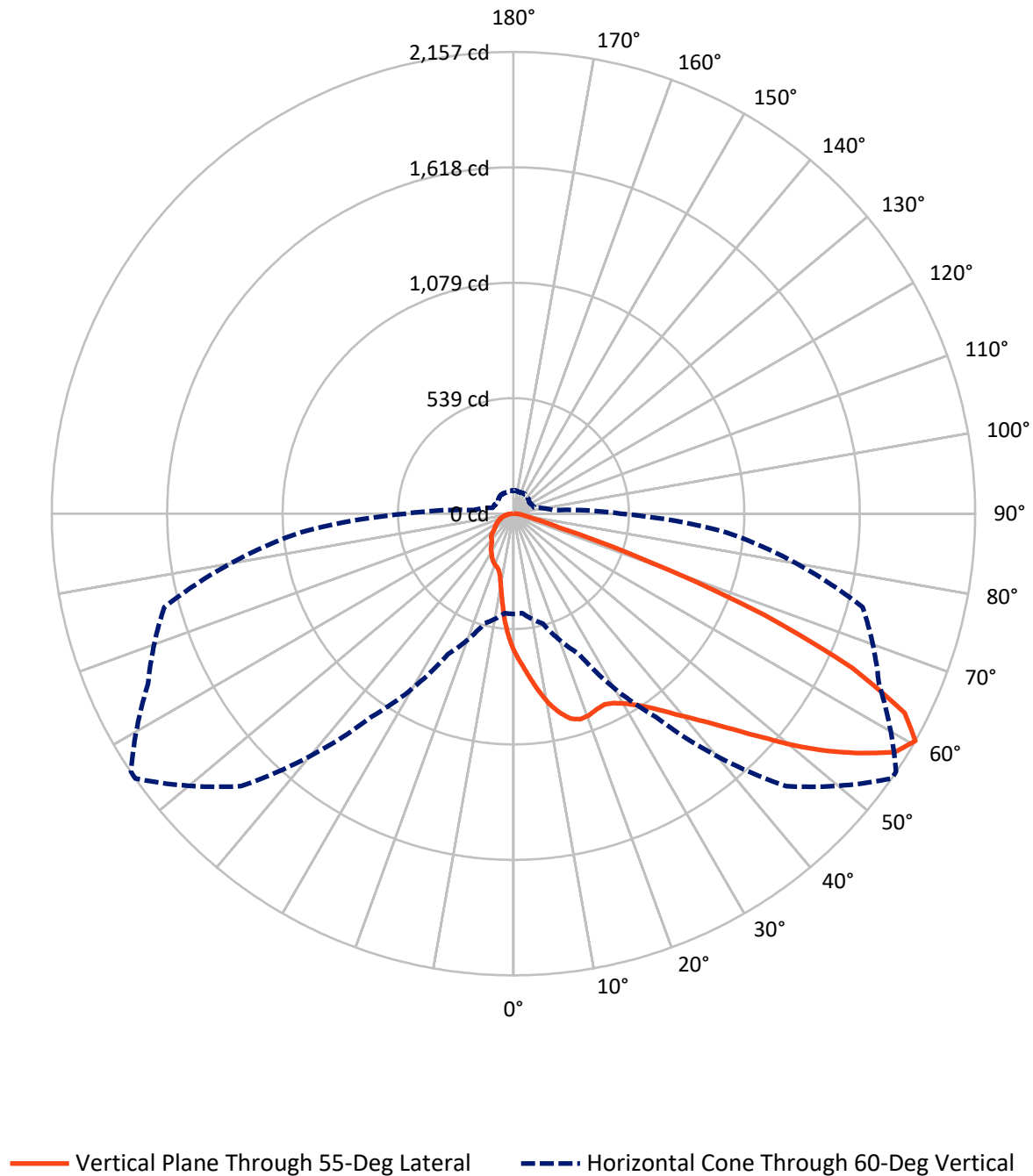
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

REPORT NUMBER: P671934  
CATALOG NUMBER: CCP-SA-1B-727-U-AFL

## Luminous Intensity Polar Plot



REPORT NUMBER: P671934

CATALOG NUMBER: CCP-SA-1B-727-U-AFL

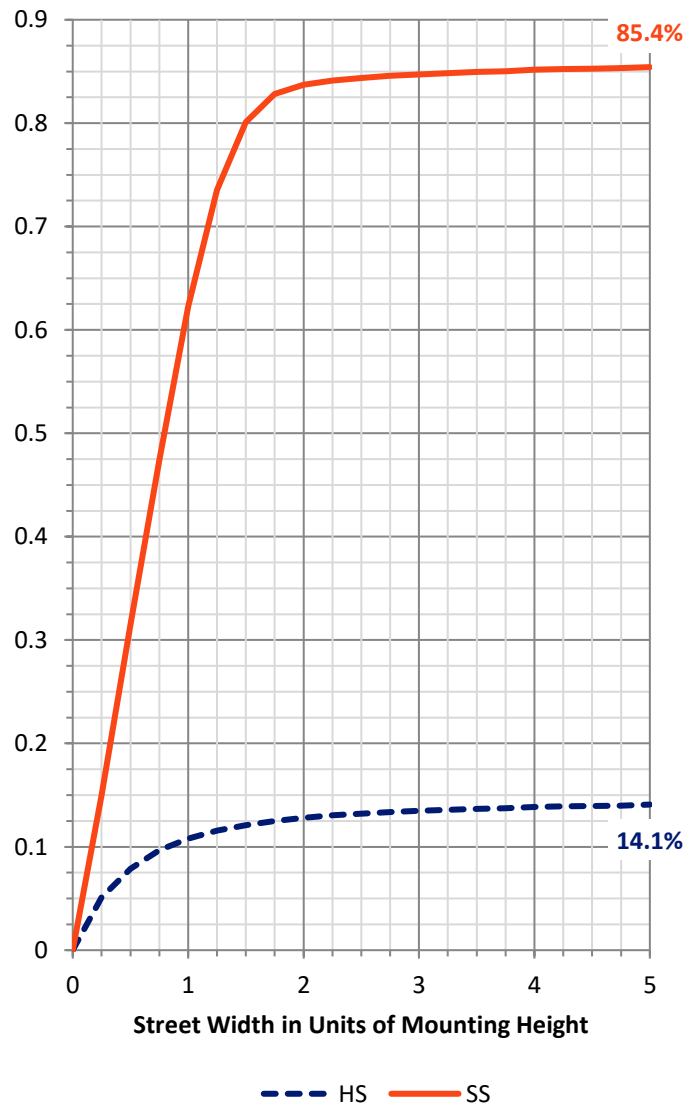
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 419.0    | 0.0    | 419.0  |
|                    | % Fixture | 14.4     | 0.0    | 14.4   |
| <b>Street Side</b> | Lumens    | 2495.7   | 0.0    | 2495.7 |
|                    | % Fixture | 85.6     | 0.0    | 85.6   |
| <b>Total</b>       | Lumens    | 2914.7   | 0.0    | 2914.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.5   | 2.1       |
| 10°-20°   | 171.4  | 5.9       |
| 20°-30°   | 279.0  | 9.6       |
| 30°-40°   | 417.1  | 14.3      |
| 40°-50°   | 613.0  | 21.0      |
| 50°-60°   | 718.5  | 24.6      |
| 60°-70°   | 473.7  | 16.3      |
| 70°-80°   | 150.8  | 5.2       |
| 80°-90°   | 30.7   | 1.1       |
| 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°    | 2914.7 | 100.0     |
| 0°-180°   | 2914.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P671934

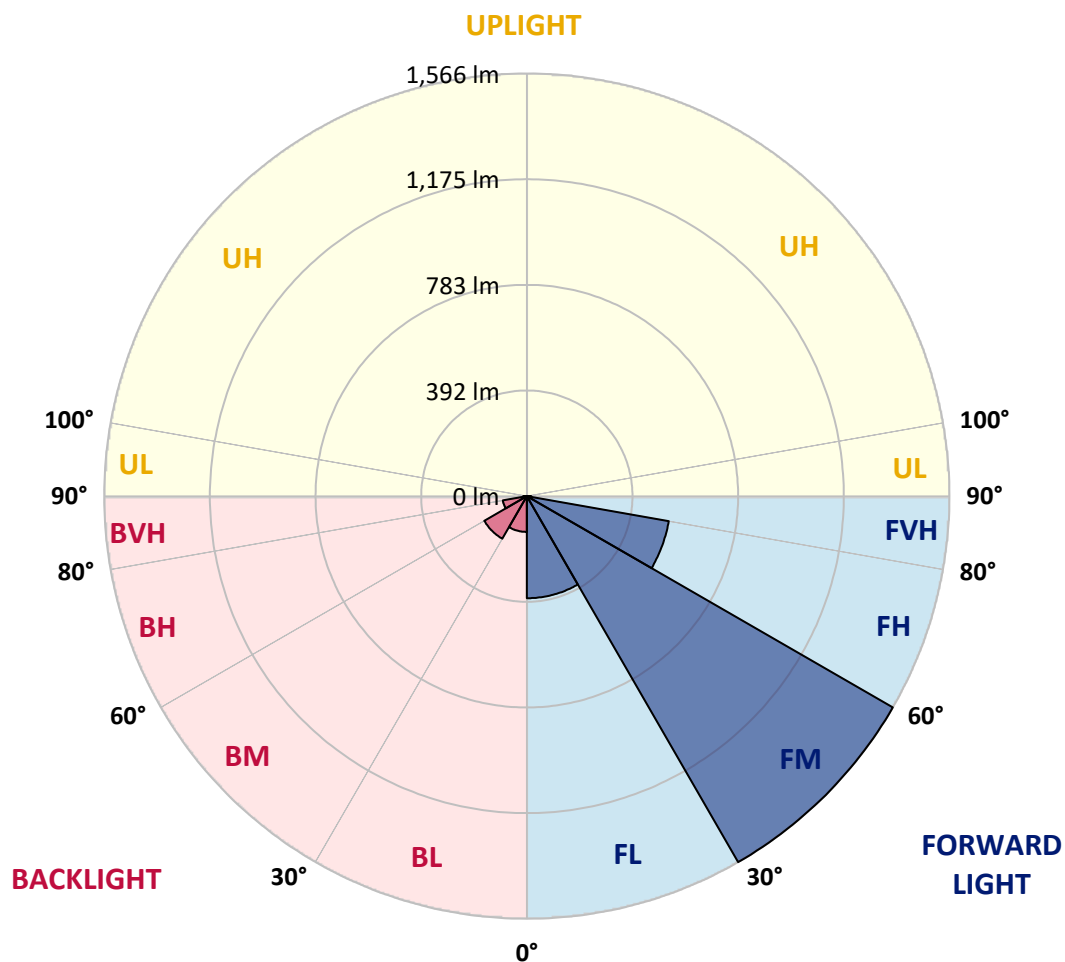
CATALOG NUMBER: CCP-SA-1B-727-U-AFL

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 378.3  | 13.0      |                         |      |        |
| FM   | (30°-60°)   | 1566.4 | 53.7      |                         |      |        |
| FH   | (60°-80°)   | 534.2  | 18.3      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 16.8   | 0.6       |                         |      | G1/100 |
| BL   | (0°-30°)    | 132.6  | 4.6       | B1/500                  |      |        |
| BM   | (30°-60°)   | 182.1  | 6.2       | B0/220                  |      |        |
| BH   | (60°-80°)   | 90.4   | 3.1       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 13.9   | 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 II Short





REPORT NUMBER: P671934

CATALOG NUMBER: CCP-SA-1B-727-U-AFL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 646.4  | 646.4  | 646.4  | 646.4  | 646.4  | 646.4  | 646.4  | 646.4  | 646.4  | 646.4  | 646.4 |
| 2.5°  | 752.2  | 749.5  | 749.5  | 742.5  | 732.2  | 717.8  | 700.7  | 696.5  | 689.9  | 673.2  | 651.7 |
| 5°    | 867.0  | 864.0  | 860.0  | 847.7  | 828.5  | 799.8  | 763.7  | 757.1  | 733.7  | 699.2  | 660.4 |
| 7.5°  | 942.8  | 941.1  | 939.8  | 929.3  | 910.3  | 881.9  | 833.6  | 826.2  | 786.5  | 729.4  | 668.6 |
| 10°   | 935.0  | 940.0  | 948.9  | 956.3  | 960.1  | 945.5  | 900.1  | 891.5  | 842.2  | 764.5  | 680.8 |
| 12.5° | 861.7  | 868.9  | 885.3  | 915.5  | 950.4  | 978.5  | 952.7  | 947.9  | 901.8  | 801.7  | 696.3 |
| 15°   | 807.2  | 810.1  | 818.2  | 840.5  | 892.5  | 967.5  | 993.5  | 989.1  | 957.4  | 849.4  | 714.0 |
| 17.5° | 790.3  | 791.5  | 793.4  | 800.8  | 836.3  | 924.6  | 1010.2 | 1014.4 | 1011.2 | 899.1  | 734.1 |
| 20°   | 798.7  | 799.6  | 799.8  | 801.0  | 817.9  | 888.7  | 1005.7 | 1012.9 | 1058.5 | 948.7  | 753.9 |
| 22.5° | 831.3  | 830.2  | 828.7  | 823.9  | 833.4  | 882.4  | 993.9  | 1005.3 | 1095.1 | 993.9  | 772.3 |
| 25°   | 888.1  | 886.6  | 876.2  | 866.1  | 870.1  | 905.2  | 987.6  | 999.8  | 1123.6 | 1036.6 | 785.8 |
| 27.5° | 955.7  | 954.2  | 943.6  | 924.4  | 920.2  | 943.2  | 1002.4 | 1010.0 | 1144.5 | 1074.4 | 791.7 |
| 30°   | 1025.8 | 1025.8 | 1012.7 | 990.5  | 977.0  | 986.7  | 1029.6 | 1035.7 | 1160.4 | 1110.9 | 795.5 |
| 32.5° | 1102.3 | 1104.4 | 1084.1 | 1058.8 | 1043.8 | 1038.1 | 1067.8 | 1073.1 | 1183.4 | 1154.0 | 803.6 |
| 35°   | 1200.5 | 1195.9 | 1171.1 | 1137.8 | 1113.7 | 1100.8 | 1115.2 | 1121.3 | 1217.2 | 1207.7 | 816.5 |
| 37.5° | 1311.0 | 1302.7 | 1272.3 | 1232.4 | 1190.4 | 1168.8 | 1178.3 | 1179.8 | 1267.3 | 1277.6 | 839.9 |
| 40°   | 1402.2 | 1400.8 | 1375.0 | 1337.2 | 1284.2 | 1255.2 | 1250.6 | 1251.4 | 1336.8 | 1360.4 | 875.4 |
| 42.5° | 1479.1 | 1473.6 | 1469.0 | 1455.7 | 1399.5 | 1352.0 | 1333.0 | 1333.2 | 1412.2 | 1446.0 | 911.1 |
| 45°   | 1513.1 | 1512.1 | 1525.8 | 1560.0 | 1519.7 | 1463.7 | 1436.7 | 1440.5 | 1498.6 | 1533.9 | 945.5 |
| 47.5° | 1498.6 | 1499.4 | 1536.2 | 1626.0 | 1649.8 | 1606.9 | 1559.0 | 1556.7 | 1582.2 | 1601.2 | 976.0 |
| 50°   | 1368.4 | 1382.2 | 1481.7 | 1632.1 | 1735.2 | 1756.5 | 1702.4 | 1693.8 | 1655.5 | 1654.9 | 994.5 |
| 52.5° | 1270.2 | 1269.6 | 1330.6 | 1569.8 | 1765.4 | 1891.5 | 1842.9 | 1823.5 | 1716.2 | 1685.1 | 996.0 |
| 55°   | 1137.6 | 1136.7 | 1182.1 | 1387.5 | 1705.4 | 1985.7 | 1975.4 | 1951.1 | 1771.7 | 1695.0 | 985.9 |
| 57.5° | 861.5  | 877.5  | 922.7  | 1110.7 | 1515.3 | 1970.7 | 2101.9 | 2081.6 | 1826.0 | 1690.6 | 984.0 |
| 60°   | 468.8  | 466.9  | 532.3  | 723.9  | 1160.2 | 1800.4 | 2157.0 | 2156.0 | 1883.7 | 1688.9 | 995.6 |
| 62.5° | 216.1  | 214.0  | 227.1  | 322.4  | 665.2  | 1442.4 | 2050.6 | 2065.8 | 1937.1 | 1673.5 | 994.5 |
| 65°   | 161.6  | 156.1  | 138.4  | 150.0  | 254.6  | 861.0  | 1741.7 | 1782.3 | 1854.7 | 1610.1 | 948.5 |
| 67.5° | 144.1  | 138.8  | 118.1  | 110.7  | 127.8  | 303.8  | 1263.5 | 1300.8 | 1551.0 | 1491.4 | 873.9 |
| 70°   | 132.0  | 127.4  | 106.7  | 95.1   | 95.9   | 134.6  | 661.4  | 734.9  | 1136.7 | 1244.7 | 744.9 |
| 72.5° | 120.4  | 116.4  | 97.6   | 83.7   | 80.7   | 88.9   | 225.4  | 271.9  | 707.0  | 907.1  | 555.4 |
| 75°   | 108.2  | 104.4  | 87.9   | 75.0   | 69.3   | 65.9   | 107.3  | 115.6  | 373.9  | 500.9  | 298.1 |
| 77.5° | 94.0   | 91.9   | 78.4   | 66.1   | 61.3   | 49.9   | 71.4   | 75.0   | 160.1  | 196.7  | 142.0 |
| 80°   | 81.8   | 80.1   | 69.9   | 60.0   | 54.9   | 38.4   | 49.2   | 51.8   | 79.0   | 98.2   | 79.4  |
| 82.5° | 53.2   | 57.5   | 57.9   | 51.5   | 48.4   | 30.8   | 32.5   | 34.4   | 52.4   | 57.9   | 34.6  |
| 85°   | 22.0   | 26.6   | 39.9   | 35.5   | 33.6   | 26.2   | 21.5   | 22.0   | 32.1   | 33.8   | 12.5  |
| 87.5° | 9.9    | 11.0   | 19.6   | 19.9   | 17.3   | 9.9    | 10.8   | 11.8   | 16.5   | 16.3   | 5.5   |
| 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: P671934

CATALOG NUMBER: CCP-SA-1B-727-U-AFL

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 646.4 | 646.4 | 646.4 | 646.4 | 646.4 | 646.4 | 646.4 | 646.4 | 646.4 | 646.4 | 646.4 |
| 2.5°  | 645.8 | 636.1 | 618.7 | 596.6 | 580.7 | 569.1 | 556.4 | 547.1 | 536.8 | 527.7 | 529.2 |
| 5°    | 644.3 | 625.5 | 586.6 | 545.4 | 505.3 | 472.3 | 444.9 | 424.6 | 403.7 | 395.5 | 394.4 |
| 7.5°  | 645.6 | 613.7 | 549.9 | 482.5 | 421.4 | 379.4 | 347.5 | 328.3 | 316.2 | 309.3 | 309.7 |
| 10°   | 645.1 | 602.5 | 510.2 | 417.2 | 350.5 | 312.0 | 292.6 | 286.2 | 285.2 | 286.0 | 287.3 |
| 12.5° | 645.8 | 587.3 | 465.6 | 358.5 | 299.5 | 279.9 | 280.7 | 286.4 | 290.0 | 292.4 | 293.8 |
| 15°   | 648.5 | 574.8 | 420.0 | 312.2 | 272.9 | 273.6 | 282.6 | 291.5 | 296.8 | 299.3 | 300.6 |
| 17.5° | 652.5 | 559.2 | 379.4 | 277.2 | 261.7 | 271.5 | 283.3 | 292.8 | 296.8 | 298.3 | 299.3 |
| 20°   | 653.0 | 541.2 | 338.4 | 253.1 | 254.3 | 267.0 | 277.4 | 285.0 | 290.0 | 291.7 | 292.6 |
| 22.5° | 651.1 | 516.9 | 296.4 | 235.5 | 245.9 | 258.6 | 267.4 | 276.1 | 269.3 | 263.8 | 262.4 |
| 25°   | 643.0 | 486.3 | 260.5 | 221.2 | 235.3 | 247.2 | 257.3 | 247.8 | 244.6 | 240.4 | 240.8 |
| 27.5° | 625.7 | 448.1 | 226.7 | 207.7 | 222.9 | 239.8 | 232.4 | 231.1 | 227.1 | 222.9 | 222.9 |
| 30°   | 602.9 | 407.7 | 198.4 | 193.5 | 207.9 | 216.3 | 218.0 | 216.1 | 213.8 | 208.3 | 208.7 |
| 32.5° | 582.4 | 365.0 | 178.3 | 181.7 | 198.4 | 198.4 | 205.8 | 205.8 | 197.3 | 181.9 | 181.9 |
| 35°   | 562.1 | 324.9 | 163.5 | 171.7 | 182.7 | 186.3 | 196.5 | 183.1 | 171.1 | 164.1 | 163.7 |
| 37.5° | 546.3 | 290.7 | 153.8 | 163.3 | 167.5 | 176.6 | 176.8 | 167.1 | 163.1 | 156.7 | 156.1 |
| 40°   | 537.0 | 261.9 | 147.9 | 159.1 | 159.5 | 167.9 | 154.0 | 156.7 | 155.9 | 151.0 | 150.4 |
| 42.5° | 531.9 | 239.8 | 143.4 | 155.5 | 153.4 | 145.1 | 142.6 | 147.2 | 148.7 | 146.2 | 145.1 |
| 45°   | 527.9 | 222.4 | 139.8 | 143.0 | 148.5 | 133.5 | 132.5 | 136.0 | 139.2 | 139.0 | 138.2 |
| 47.5° | 525.8 | 210.4 | 136.7 | 135.2 | 136.3 | 126.5 | 124.4 | 126.1 | 130.1 | 132.7 | 132.5 |
| 50°   | 517.6 | 201.1 | 132.0 | 127.2 | 120.4 | 120.4 | 119.4 | 119.4 | 124.2 | 129.3 | 129.7 |
| 52.5° | 503.0 | 190.1 | 125.3 | 119.6 | 111.7 | 115.1 | 115.6 | 114.7 | 119.8 | 125.3 | 125.7 |
| 55°   | 486.9 | 181.9 | 116.2 | 112.6 | 104.6 | 110.3 | 112.2 | 111.3 | 114.7 | 118.5 | 118.3 |
| 57.5° | 487.1 | 181.7 | 108.4 | 105.6 | 97.8  | 104.1 | 108.8 | 109.0 | 108.8 | 111.5 | 111.5 |
| 60°   | 499.4 | 185.9 | 102.2 | 96.3  | 90.0  | 97.6  | 105.2 | 105.2 | 103.7 | 107.7 | 108.2 |
| 62.5° | 503.0 | 185.5 | 98.4  | 87.5  | 83.0  | 91.7  | 99.9  | 101.2 | 100.1 | 105.8 | 106.5 |
| 65°   | 471.3 | 175.5 | 94.6  | 79.4  | 76.7  | 85.1  | 93.4  | 97.0  | 95.9  | 103.3 | 104.1 |
| 67.5° | 427.3 | 162.7 | 88.7  | 72.2  | 70.1  | 78.8  | 86.6  | 90.4  | 90.2  | 99.9  | 100.3 |
| 70°   | 368.4 | 146.8 | 81.3  | 64.9  | 63.8  | 71.4  | 78.4  | 82.4  | 84.3  | 95.5  | 95.3  |
| 72.5° | 285.4 | 125.9 | 70.1  | 57.0  | 56.8  | 63.8  | 69.9  | 74.4  | 77.9  | 88.7  | 88.7  |
| 75°   | 184.0 | 99.1  | 57.2  | 49.4  | 48.6  | 55.1  | 61.5  | 66.5  | 77.5  | 94.6  | 94.4  |
| 77.5° | 112.4 | 75.6  | 46.1  | 41.2  | 41.0  | 46.9  | 53.2  | 61.9  | 84.7  | 84.3  | 82.0  |
| 80°   | 67.4  | 54.3  | 36.8  | 33.0  | 33.0  | 38.4  | 45.4  | 66.3  | 70.3  | 80.3  | 75.8  |
| 82.5° | 35.1  | 33.4  | 27.5  | 24.3  | 25.3  | 30.2  | 41.4  | 53.0  | 57.5  | 48.8  | 44.8  |
| 85°   | 14.4  | 17.7  | 16.9  | 15.4  | 16.1  | 20.9  | 39.9  | 42.5  | 34.0  | 35.7  | 35.9  |
| 87.5° | 4.9   | 7.8   | 7.8   | 6.1   | 6.8   | 14.8  | 23.7  | 14.2  | 17.1  | 10.1  | 7.6   |
| 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)